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ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR THE YEAR

1919



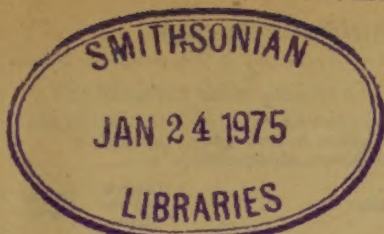
WASHINGTON  
GOVERNMENT PRINTING OFFICE

1920 •









REPORT  
OF THE  
COMMISSIONER OF PATENTS  
TO CONGRESS

FOR THE YEAR ENDED DECEMBER 31, 1919.

DEPARTMENT OF THE INTERIOR,  
UNITED STATES PATENT OFFICE,

Washington, D. C., February 28, 1920.

To the Senate and House of Representatives:

In compliance with section 494 of the Revised Statutes I have the honor to submit the following report of the business of the Patent Office for the year ended December 31, 1919:

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

<b>Applications:</b>	
Cash received.....	\$2, 033, 651. 39
Cash refunded.....	7, 641. 00
Net cash.....	2, 026, 010. 39
Certificates of deposit.....	58, 085. 00
Total cash and certificates.....	2, 084, 095. 39
<b>Copies:</b>	
Cash received.....	280, 488. 88
Cash refunded.....	5, 934. 41
Net cash.....	274, 554. 47
Certificates of deposit.....	1, 119. 25
Total cash and certificates.....	275, 673. 72
<b>Recording assignments:</b>	
Cash received.....	31, 632. 99
Cash refunded.....	1, 292. 24
Net cash.....	30, 340. 75
Certificates of deposit.....	164. 61
Total cash and certificates.....	30, 505. 36
<b>Registration of prints and labels:</b>	
Cash received.....	10, 091. 00
Cash refunded.....	431. 70
Net cash.....	9, 659. 30
Certificates of deposit.....	138. 00
Total cash and certificates.....	9, 797. 30
<b>Aggregates.</b>	
Cash received.....	2, 355, 864. 26
Cash refunded.....	15, 299. 35
Net cash.....	2, 340, 564. 91
Certificates of deposit.....	59, 506. 86
Total cash and certificates.....	2, 400, 071. 77
Receipts from sale of Official Gazette and other publications through Government Printing Office, estimated.....	17, 000. 00
Grand total.....	2, 417, 071. 77

EXPENDITURES.

Amounts expended under the several appropriations from January 1 to December 31, 1919.

Salaries.....	\$1, 380, 883. 37
Scientific library.....	2, 850. 32
International Union for Protection of Industrial Property.....	750. 00
Stationery.....	11, 821. 74
Postage on foreign matter.....	604. 06

EXPENDITURES—Continued.

Furniture, carpets, ice, telephones, washing towels, and sundries.....	\$29, 523. 91
Photolithographing.....	
Current issue.....	49, 603. 82
Reproductions.....	86, 561. 27
Photographic copies.....	4, 966. 72
Photostat supplies, etc.....	8, 352. 18
Kodak dry-mounting tissue.....	7, 984. 00
Foreign patents.....	1, 834. 92
Printing and binding:	
Official Gazette, with indexes.....	154, 657. 07
Specifications.....	390, 504. 09
Miscellaneous.....	23, 563. 37
Defending suits.....	496. 46
Rent and storage of Patent Office models.....	2, 400. 00
Total under above heading.....	2, 157, 357. 30
Increase in compensation.....	153, 062. 72
Grand total.....	2, 310, 420. 02

RECEIPTS AND EXPENDITURES.

Receipts from all sources.....	\$2, 417, 071. 77
Expenditures.....	2, 310, 420. 02
Net favorable balance.....	106, 651. 75

Surplus earnings of the Patent Office, deposited in the Treasury of the United States.

Amount of total net surplus in Treasury, Jan. 1, 1919.....	\$8, 150, 464. 10
Net surplus for the year 1919.....	106, 651. 75
Total net surplus, Dec. 31, 1919.....	8, 257, 115. 85

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Applications for patents for inventions.....	76, 484
Applications for patents for designs.....	3, 627
Applications for reissues of patents.....	289
Total.....	80, 400
Applications for registration of trade-marks.....	12, 218
Applications for registration of labels.....	1, 219
Applications for registration of prints.....	486
Disclaimers filed.....	22
Appeals on the merits.....	1, 955
Notices of opposition.....	204
Total.....	16, 104
Applications without fees:	
For inventions, (act of Mar. 3, 1883).....	226
For reissues, inventions, (Rule 170).....	9
For reissues, designs, (Rule 170).....	3
Total.....	238
Patents issued, excluding designs.....	36, 872
Design patents issued.....	1, 523
Patents reissued.....	203
Total.....	38, 598
Trade-marks registered.....	4, 208
Labels registered.....	520
Prints registered.....	146
Total.....	4, 874

Patents expired during the year.....	27, 136
Applications forfeited for non-payments of final fees.....	7, 267
Applications allowed, awaiting payment of final fees.....	11, 896
Trade-mark applications passed for publication.....	6, 040



## REPORT OF THE COMMISSIONER OF PATENTS FOR THE YEAR 1919.

## PATENTS ISSUED.

*Patents issued to citizens of the United States, with the ratio of population to each patent granted.*

States.	Patents and designs.	One to every—	States.	Patents and designs.	One to every—
Alabama.....	153	13,974	North Dakota.....	162	3,561
Arizona.....	82	2,492	Ohio.....	2,505	1,903
Arkansas.....	89	17,691	Oklahoma.....	268	6,183
California.....	1,962	1,212	Oregon.....	291	2,171
Colorado.....	385	2,078	Pennsylvania.....	3,111	2,464
Connecticut.....	3,899	1,241	Rhode Island.....	240	2,261
Delaware.....	93	2,176	South Carolina.....	89	17,027
Florida.....	129	5,834	South Dakota.....	118	4,943
Georgia.....	187	13,953	Tennessee.....	203	10,763
Idaho.....	100	4,285	Texas.....	568	6,860
Illinois.....	3,899	1,444	Utah.....	131	3,850
Indiana.....	753	3,587	Vermont.....	65	5,015
Iowa.....	604	3,683	Virginia.....	225	9,163
Kansas.....	362	4,671	Washington.....	662	1,755
Kentucky.....	224	10,223	West Virginia.....	182	6,709
Louisiana.....	163	10,162	Wisconsin.....	955	2,444
Maine.....	116	6,399	Wyoming.....	44	3,317
Maryland.....	322	4,023			
Massachusetts.....	1,991	1,685	Alaska.....	12	5,409
Michigan.....	1,371	2,042	Canal Zone.....	6	5,174
Minnesota.....	775	2,679	District of Columbia.....	299	1,107
Mississippi.....	35	21,141	Hawaii.....	34	6,458
Missouri.....	988	3,333	Isle of Pines.....	1	
Montana.....	167	2,252	Philippine Islands.....	8	1,109,999
Nebraska.....	264	4,474	Porto Rico.....	7	175,982
Nevada.....	36	2,274	United States Army.....	49	
New Hampshire.....	122	3,528	United States Navy.....	14	
New Jersey.....	1,898	1,337	United States Marines.....	2	
New Mexico.....	48	6,819			
New York.....	5,980	1,524	Total.....	34,631	
North Carolina.....	142	15,469			

<sup>1</sup> Not including 203 reissues and 77 patents withdrawn.

*Patents granted to residents of foreign countries.*

Algeria.....	1	Finland.....	2	Queensland.....	9
Argentina.....	15	France.....	363	Roumania.....	1
Austria-Hungary.....	11	Germany.....	131	Russia.....	9
Bahama Islands.....	1	India.....	8	Scotland.....	85
Belgium.....	22	Ireland.....	28	South Africa.....	14
Brazil.....	7	Italy.....	72	South Australia.....	8
British West Indies.....	2	Japan.....	56	Spain.....	14
Canada.....	819	Java.....	1	Sweden.....	155
Cape Colony.....	1	Korea.....	1	Switzerland.....	139
Cape of Good Hope.....	1	Mauritius.....	1	Tasmania.....	4
Chile.....	6	Mexico.....	30	Transvaal.....	1
China.....	6	Morocco.....	1	Tunis.....	1
Cook Islands.....	2	Netherlands.....	61	Uruguay.....	3
Cuba.....	26	Newfoundland.....	1	Victoria.....	33
Denmark.....	54	New South Wales.....	69	Wales.....	17
Dutch East Indies.....	4	New Zealand.....	48	West Australia.....	4
Dutch West Indies.....	1	Norway.....	88		
Egypt.....	2	Peru.....	1	Total.....	3,687
England.....	1,245	Portugal.....	2		



The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836 and exhibit in detail the business of the Office during the last calendar year:

*Comparative statement of the business of the Office from 1837 to 1919, inclusive.*

Year.	Applica- tions. <sup>1</sup>	Caveats filed. <sup>2</sup>	Patents and re- issues.	Cash received.	Cash expended.	Surplus.
1837.....			435	\$29,289.08	\$33,506.98	
1838.....			520	42,123.54	37,338.92	\$4,784.62
1839.....			425	38,019.97	34,543.51	3,476.46
1840.....	765	228	473	38,056.51	39,020.67	
1841.....	847	312	495	40,413.01	52,666.87	
1842.....	761	291	517	36,505.63	31,241.43	5,264.20
1843.....	819	315	519	35,315.81	30,776.96	4,538.85
1844.....	1,045	380	497	42,509.26	36,344.53	6,164.73
1845.....	1,246	452	503	51,076.14	39,395.65	11,680.49
1846.....	1,272	448	638	50,264.16	46,158.71	4,105.45
1847.....	1,531	533	569	63,111.19	41,878.35	21,232.84
1848.....	1,628	607	653	67,576.60	58,905.84	8,670.76
1849.....	1,955	595	1,077	80,752.78	77,716.44	3,036.34
1850.....	2,193	602	993	86,927.05	80,100.95	6,826.10
1851.....	2,258	760	872	95,738.61	86,916.93	8,821.68
1852.....	2,639	996	1,019	112,056.34	95,916.91	16,139.43
1853.....	2,673	901	961	121,527.45	132,869.83	
1854.....	3,324	868	1,844	163,789.84	167,146.32	
1855.....	4,435	906	2,013	216,459.35	179,540.33	36,919.02
1856.....	4,960	1,024	2,505	192,588.02	199,931.02	
1857.....	4,771	1,010	2,896	196,132.01	211,582.09	
1858.....	5,361	943	3,710	203,716.16	193,193.74	10,522.42
1859.....	6,225	1,079	4,538	245,942.15	210,278.41	35,663.74
1860.....	7,653	1,084	4,819	256,352.59	252,820.80	3,531.79
1861.....	4,643	700	3,340	137,354.44	221,491.91	
1862.....	5,038	824	3,521	215,754.99	182,810.39	32,944.60
1863.....	6,014	787	4,170	195,593.29	189,414.14	6,179.15
1864.....	6,972	1,063	5,020	240,919.98	229,868.00	11,051.98
1865.....	10,664	1,932	6,616	348,791.84	274,199.34	74,592.50
1866.....	15,269	2,723	9,450	495,665.38	361,724.28	133,941.10
1867.....	21,276	3,597	13,015	646,581.92	639,263.32	7,318.60
1868.....	20,445	3,705	13,378	681,565.86	628,679.77	52,886.09
1869.....	17,271	3,624	13,986	693,145.81	486,430.74	206,715.07
1870.....	19,171	3,273	13,321	669,456.76	557,147.19	112,309.57
1871.....	19,472	3,366	13,033	678,716.46	562,091.64	116,624.82
1872.....	18,246	3,090	13,590	699,726.39	665,595.00	34,131.39
1873.....	20,414	3,248	12,864	703,191.77	691,178.98	12,012.79
1874.....	21,602	3,181	13,591	738,278.17	679,288.41	58,989.76
1875.....	21,638	3,094	14,837	743,453.36	721,657.71	21,795.65
1876.....	21,425	2,697	15,595	757,987.65	652,542.60	105,445.05
1877.....	20,308	2,809	14,187	732,342.85	613,152.62	119,190.23
1878.....	20,260	2,755	13,444	725,375.55	593,082.89	132,292.66
1879.....	20,059	2,620	13,213	703,931.47	529,638.97	174,292.50
1880.....	23,012	2,490	13,947	749,685.32	538,865.17	210,820.15
1881.....	26,059	2,406	16,584	853,665.89	605,173.28	248,492.61
1882.....	31,522	2,553	19,267	1,009,219.45	683,867.67	325,351.78
1883.....	34,576	2,741	22,383	1,146,240.00	675,234.86	471,005.14
1884.....	35,600	2,582	20,413	1,075,798.80	970,579.76	105,219.04
1885.....	35,717	2,552	24,233	1,188,089.15	1,024,378.85	163,710.30
1886.....	35,968	2,513	22,508	1,154,551.40	992,503.45	162,047.95
1887.....	35,613	2,622	21,477	1,144,509.60	994,472.22	150,037.38
1888.....	35,797	2,251	20,506	1,118,516.10	973,108.78	145,407.32
1889.....	40,575	2,481	24,158	1,281,728.05	1,052,955.96	228,772.09
1890.....	41,048	2,311	26,292	1,340,372.66	1,099,297.74	241,074.92
1891.....	40,552	2,406	23,244	1,271,285.78	1,139,713.35	131,572.43
1892.....	40,753	2,290	23,559	1,286,331.88	1,110,739.24	175,592.64
1893.....	38,473	2,247	23,769	1,242,871.64	1,141,038.45	101,833.19
1894.....	38,439	2,286	20,867	1,187,439.58	1,100,047.12	87,392.46
1895.....	40,680	2,415	22,057	1,245,246.93	1,106,389.49	138,857.44
1896.....	43,982	2,271	23,373	1,324,059.83	1,113,413.71	210,646.12
1897.....	47,905	2,176	23,794	1,375,641.72	1,122,843.13	252,798.59
1898.....	35,842	1,659	22,267	1,137,734.48	1,136,196.20	1,538.28
1899.....	41,443	1,716	25,527	1,325,457.03	1,211,783.73	113,673.30
1900.....	41,980	1,731	26,499	1,350,828.53	1,260,019.62	90,808.91
1901.....	46,449	1,842	27,373	1,449,398.16	1,297,385.61	152,012.52
1902.....	49,641	1,851	27,886	1,552,859.08	1,393,345.54	159,513.54
1903.....	50,213	1,771	31,699	1,642,201.81	1,448,645.81	193,556.00
1904.....	52,143	1,808	30,934	1,657,326.53	1,476,000.38	181,326.15
1905.....	54,971	1,896	30,399	1,806,758.14	1,479,633.22	327,124.92
1906.....	56,482	1,885	31,965	1,790,921.38	1,554,891.20	236,030.18
1907.....	58,762	1,967	36,620	1,910,618.14	1,631,458.36	279,159.78
1908.....	61,475	2,110	33,682	1,896,847.67	1,712,303.42	184,544.25
1909.....	65,839	1,948	37,421	2,042,828.14	1,955,151.14	87,677.00
1910.....	64,629	970	35,930	2,025,536.69	2,005,711.94	19,824.75
1911.....	69,121		34,084	2,019,388.03	1,953,689.91	65,698.12
1912.....	70,976		37,731	2,118,158.30	2,022,066.11	96,092.19
1913.....	70,367		35,788	2,084,417.79	1,947,383.28	137,034.51
1914.....	70,404		41,850	2,251,892.82	2,000,770.12	251,122.70
1915.....	70,069		44,934	2,290,773.47	2,053,442.15	239,331.32
1916.....	71,033		45,927	2,345,640.94	2,115,367.91	228,273.03
1917.....	70,373		42,760	2,258,377.10	2,048,173.16	210,203.94
1918.....	59,615		39,911	1,977,518.82	2,050,938.17	73,419.35
1919.....	80,400		38,598	2,417,071.77	2,310,420.02	106,651.75

<sup>1</sup> Including patents, designs, and reissues.

<sup>2</sup> Caveat law repealed June 25, 1910.



REPORT OF THE COMMISSIONER OF PATENTS FOR THE YEAR 1919.

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade-mark, label, and print issued in each calendar year since July 28, 1836, when the present series of numbers of Letters Patent commenced and the totals of same issued during each calendar year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	De-signs.	Re-issues.	Trade-marks.	Labels.	Prints.	Patents.	De-signs.	Re-issues.	Total patents.	Trade-marks.	Labels.	Prints.	Total certificates.
1836 (July 28)...	1						109							
1837.....	110						436							
1838.....	546		1				515		6					
1839.....	1,061		7				404		13					
1840.....	1,465		20				458		10					
1841.....	1,923		30				490		6					
1842.....	2,413		36				488		13					
1843.....	2,901	1	49				494	14	11	519				
1844.....	3,395	15	60				478	12	7	497				
1845.....	3,873	27	67				475	17	11	503				
1846.....	4,348	44	78				566	59	13	638				
1847.....	4,914	103	91				495	60	14	569				
1848.....	5,409	163	105				584	46	23	653				
1849.....	5,993	209	128				988	49	30	1,067				
1850.....	6,981	258	158				884	83	26	993				
1851.....	7,865	341	184				757	90	25	872				
1852.....	8,622	431	209				890	109	20	1,019				
1853.....	9,512	540	229				846	86	29	961				
1854.....	10,358	626	258				1,759	57	28	1,844				
1855.....	12,117	683	286				1,892	70	51	2,013				
1856.....	14,009	753	337				2,315	107	83	2,505				
1857.....	16,324	860	420				2,686	113	97	2,896				
1858.....	19,010	973	517				3,467	102	126	3,695				
1859.....	22,477	1,075	643				4,165	108	231	4,504				
1860.....	26,642	1,183	674				4,363	183	232	4,778				
1861.....	31,005	1,366	1,106				3,040	142	147	3,329				
1862.....	34,045	1,508	1,253				3,221	195	116	3,532				
1863.....	37,266	1,703	1,369				3,781	176	227	4,184				
1864.....	41,047	1,879	1,596				4,638	139	248	5,025				
1865.....	45,685	2,018	1,844				6,099	221	296	6,616				
1866.....	51,784	2,239	2,140				8,874	294	290	9,458				
1867.....	60,658	2,533	2,430				12,301	325	400	13,026				
1868.....	72,959	2,858	2,830				12,544	446	420	13,410				
1869.....	85,503	3,304	3,250				12,957	506	534	13,997				
1870.....	98,460	3,810	3,784				12,157	737	439	13,333	121			121
1871.....	110,617	4,547	4,223		122		11,687	905	464	13,056	486			486
1872.....	122,304	5,452	4,687		608		12,200	884	529	13,613	491			491
1873.....	134,504	6,336	5,216		1,099		11,616	747	501	12,864	492			492
1874.....	146,120	7,083	5,717		1,591		12,230	886	453	13,599	559			559
1875.....	158,350	7,969	6,200		2,150	233	13,291	915	631	14,837	1,138	232		1,370
1876.....	171,641	8,884	6,831		3,283	465	14,172	802	621	15,595	959			1,431
1877.....	185,813	9,686	7,452		4,247	937	12,920	699	568	14,187	1,216	392		1,608
1878.....	198,733	10,385	8,020		5,463	1,329	12,345	590	509	13,444	1,455	492		1,947
1879.....	211,078	10,975	8,529		6,918	1,821	12,133	592	488	13,213	872	355		1,227
1880.....	223,211	11,567	9,017		7,790	2,176	12,926	515	506	13,947	349	203		552
1881.....	236,137	12,082	9,523		8,139	2,379	15,548	565	471	16,584	834	202		1,036
1882.....	251,685	12,647	9,994		8,973	2,581	18,135	861	271	19,267	947	304		1,251
1883.....	269,820	13,508	10,265		9,920	2,885	21,196	1,020	167	22,383	902	906		1,808
1884.....	291,016	14,528	10,432		10,822	3,791	19,147	1,150	116	20,413	1,021	513		1,534
1885.....	310,163	15,678	10,548		11,843	4,304	23,331	773	129	24,233	1,067	391		1,458
1886.....	333,494	16,451	10,677		12,910	4,695	21,797	595	116	22,508	1,029	378		1,407
1887.....	355,291	17,046	10,793		13,939	5,073	20,429	949	99	21,477	1,133	380		1,513
1888.....	375,720	17,995	10,892		15,072	5,453	19,585	835	86	20,506	1,059	327		1,386
1889.....	395,305	18,530	10,978		16,131	5,780	23,360	723	75	24,158	1,229	319		1,548
1890.....	418,665	19,553	11,053		17,360	6,099	25,322	886	84	26,292	1,415	304		1,719
1891.....	443,987	20,439	11,137		18,775	6,403	22,328	836	80	23,244	1,762	137		1,899
1892.....	466,315	21,275	11,217		20,537	6,540	22,661	817	81	23,559	1,737	16		1,743
1893.....	488,976	22,092	11,298		22,274	None.	22,768	902	99	23,769	1,677	None.	2	1,679
1894.....	511,744	22,994	11,397		23,951	None.	19,875	928	64	20,857	1,806	None.	4	1,810
1895.....	531,619	23,922	11,461		25,757	None.	20,883	1,115	59	22,057	1,829	None.	3	1,832
1896.....	552,502	25,037	11,520		27,586	6,546	10	21,867	1,445	61	23,273	1,813	1	32
1897.....	574,369	26,482	11,581		29,399	6,547	42	22,098	1,631	65	23,794	1,671	14	16
1898.....	596,467	28,113	11,646		31,070	6,561	58	20,404	1,803	60	22,267	1,238	200	35
1899.....	616,871	29,916	11,706		32,308	6,761	93	23,296	2,139	92	25,527	1,649	511	100
1900.....	640,167	32,055	11,798		33,957	7,272	193	24,660	1,758	81	26,499	1,721	737	93
1901.....	664,827	33,813	11,799		35,678	8,009	286	25,558	1,734	81	27,373	1,928	878	159
1902.....	690,385	35,547	11,870		37,606	8,887	445	27,136	640	110	27,886	2,006	767	158
1903.....	717,521	36,187	12,070		39,612	9,654	603	31,046	536	117	31,699	2,186	990	270
1904.....	748,567	36,723	12,189		41,798	10,644	873	30,267	557	110	30,934	2,158	1,114	297
1905.....	778,834	37,280	12,299		43,956	11,758	1,170	29,784	486	129	30,399	4,490	830	359
1906.....	808,618	37,766	12,428		46,446	12,588	1,529	31,181	625	159	31,965	5,020	709	656
1907.....	839,799	38,391	12,587		50,014	13,297	1,874	35,880	589	151	36,620	7,878	667	315
1908.....	875,679	38,980	12,738		56,892	13,964	2,189	32,757	757	168	33,682	5,191	618	220
1909.....	908,436	39,737	12,906		72,083	14,582	2,409	36,574	687	160	37,421	4,184	492	148
1910.....	945,010	40,424	13,066		76,267	15,074	2,557	35,168	639	123	35,930	4,239	370	120
1911.....	980,178	41,063	13,189		80,506	15,444	2,677	32,917	1,010	157	34,084	4,205	659	248
1912.....	1,013,095	42,073	13,346		84,711	16,103	1,529	36,231	1,342	158	37,731	5,020	633	243
1913.....	1,049,326	43,415	13,504		89,731	16,736	3,168	33,941	1,683	164	35,788	5,065	708	290
1914.....	1,083,267	45,098	13,668		94,796	17,444	3,458	39,945	1,715	190	41,850	6,817	719	338
1915.....	1,123,212	46,813	13,858		101,613	18,163	3,796	43,207	1,545	182	44,934	6,262	803	371
1916.....	1,166,419	48,358	14,040		107,875	18,966	4,167	43,970	1,759	198	45,927	6,791	864	432
1917.....	1,210,389	50,117	14,238		114,666	19,836	4,599	41,069	1,512	179	42,760	5,339	613	245
1918.....	1,251,458	51,629	14,417		120,005	20,443	4,844	38,569	1,207	165	39,941	4,061	654	197
1919.....	1,290,027	52,836	14,582		124,066	21,097	5,041	36,872	1,523	203	38,598	4,208	520	146
1920.....	1,326,899	54,359	14,785		128,274	21,617	5,187							4,874

First print registered Mar. 7, 1893.

<sup>1</sup> Registration of labels practically suspended May 27, 1891, under decision of the United States Supreme Court in *Higgins et al. v. Keuffel et al.* (55 O. G., 1139) with the registration No. 6545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.



*Expenditures for photolithographic and photographic work since 1915-16.*

Fiscal year.	Contractor.	Price per page.			Total.
		Current issue.	Reproduction of exhausted copies, etc.	Photographic copies.	
1915-16.....	Columbia Planograph Co.....	1 .61 <sup>48</sup>			\$140,000
	The Norris Peters Co.....	2 .49			
	A. J. Ingram.....		{ 3.39		
			4.49		
1916-17.....	Commercial Photo. Co.....			{ 5.056	140,000
	Webb & Bocorselski.....			5.06	
	Norris Peters Co.....	{ 1.76	5.40		
		7.60			
1917-18.....	Sackett & Wilhelms Co.....		{ 4.57		140,000
	F. W. Ernst.....		3.42 <sup>7</sup>		
	C. J. Ernst.....		5.35	{ 5.07	
				5.06	
1918-19.....	Sackett & Wilhelms Corporation.....	{ 1.77	4.59		140,000
	Webb & Bocorselski.....	7.67	5.45		
	Commercial Photo. Co.....			{ 5.054	
				5.059	
1919-20.....	Norris Peters Co.....	{ 1.75			140,000
		7.66			
	Norris Peters Co. (July).....		{ 3.41 <sup>1</sup>		
			4.55		
1919-20.....	Sackett & Wilhelms Co. (August-December, inclusive).....		{ 3.52		150,000
			4.62		
	Commercial Photo. Co.....			{ 5.059	
	Rapid Process Co.....		5.45	5.069	
1919-20.....	Columbia Planograph Co.....	{ 1.74			150,000
		7.64			
	Sackett & Wilhelms Co.....		{ 3.57 <sup>2</sup>		
			4.71		
1919-20.....	Commercial Photo. Co.....			{ 5.069	150,000
	Columbia Planograph Co.....			5.079	
1919-20.....			5.54		150,000

<sup>1</sup> For 100 thin, 2 thick, and 1 bond copies of patents.<sup>2</sup> For 50 thin, 2 thick, and 1 bond copies of trade-marks and designs.<sup>3</sup> For 50 copies each, mechanical and design patents and trade-marks.<sup>4</sup> For 100 copies each, mechanical and design patents and trade-marks.<sup>5</sup> Size, 8 by 12<sup>1</sup>/<sub>2</sub> inches.<sup>6</sup> Size, 10 by 15 inches.<sup>7</sup> For 50 thin, 2 thick, and 1 bond copies of designs.<sup>8</sup> For 2 copies of drawings of foreign patents.<sup>9</sup> Estimated.



## REPORT OF THE COMMISSIONER OF PATENTS FOR THE YEAR 1919.

Number of patents issued by the United States to December 31, 1919, and by foreign countries to December 31, 1918.

Countries.	To 1870, inclusive.	1871 to 1918.	Total.	Countries.	To 1870, inclusive.	1871 to 1918.	Total.
Argentina.....	83	16,246	16,329	Mexico <sup>1</sup> .....	22	14,334	14,356
Australia.....		20,452	20,452	Netherlands.....	4,535	2,934	7,469
Austria <sup>1</sup> .....		92,723	92,723	Newfoundland.....	40	568	608
Austria-Hungary <sup>1</sup> .....	15,350	67,583	82,933	New South Wales.....	236	11,740	11,976
Bahamas <sup>1</sup> .....		2	2	New Zealand.....	109	19,158	19,267
Barbados.....		169	169	Norway.....	737	30,159	30,896
Belgium.....	35,044	236,954	271,998	Paraguay <sup>1</sup> .....		102	102
Bolivia <sup>1</sup> .....	42	65	107	Peru <sup>1</sup> .....		160	160
Brazil <sup>1</sup> .....	185	9,823	10,008	Portugal.....	245	9,375	9,620
British Guiana <sup>1</sup> .....	32	94	126	Queensland.....	67	6,368	6,435
British Honduras <sup>1</sup> .....	1	19	20	Russia <sup>1</sup> .....	1,464	30,844	32,308
Canada.....	4,081	187,376	191,457	St. Helena <sup>1</sup> .....		4	4
Ceylon <sup>1</sup> .....	58	829	887	South African Republics.....		1,262	1,262
Chile.....	266	3,278	3,544	South Australia.....	123	6,221	6,344
Colombia.....		1,168	1,168	Spain.....		62,757	62,757
Congo Free State <sup>1</sup> .....		294	294	Straits Settlements.....		434	434
Costa Rica <sup>1</sup> .....		74	74	Sweden.....	1,629	46,523	48,152
Cuba.....		2,875	2,875	Switzerland.....		80,646	80,646
Denmark.....	464	31,084	31,548	Tasmania <sup>1</sup> .....	43	2,426	2,469
Ecuador <sup>1</sup> .....		10	10	Trinidad.....	6	317	323
Fiji Islands <sup>1</sup> .....		47	47	Tunis <sup>1</sup> .....		1,102	1,102
Finland <sup>1</sup> .....	112	6,174	6,286	Turkey <sup>1</sup> .....		2,560	2,560
France.....	103,954	416,333	520,267	Union of South Africa.....		5,202	5,202
Germany <sup>1</sup> .....	9,996	310,184	320,180	Uruguay <sup>1</sup> .....		455	455
Great Britain.....	53,408	480,136	533,544	Venezuela <sup>1</sup> .....		329	329
Guatemala <sup>1</sup> .....		57	57	Victoria.....	822	12,463	13,285
Hawaii <sup>1</sup> .....		148	148	West Australia.....		3,524	3,524
Hongkong.....		313	313				
Hungary.....		65,973	65,973	Total foreign.....	238,437	2,494,353	2,732,790
India.....	445	14,652	15,097	United States.....	120,573	1,179,410	1,299,983
Italy and Sardinia <sup>1</sup> .....	4,723	132,248	136,971				
Jamaica.....	22	273	295	Total to 1870.....	359,010		
Japan.....		33,583	33,583	Total, 1871-1918.....		3,673,763	4,032,773
Leeward Islands.....		41	41	United States, 1919.....			36,872
Liberia <sup>1</sup> .....		2	2				
Luxemburg <sup>1</sup> .....		10,687	10,687	Grand total, including United States.....			4,069,645
Malta <sup>1</sup> .....		106	106				
Mauritius <sup>1</sup> .....	113	311	424				

<sup>1</sup> No change made in numbers of last year's report. No definite information received.

Applications for patents pending Dec. 31, 1919.

Division.	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1905 to 1909.	Prior to 1905.	Total.
1.....	978	357	168	77	23	6		2					1,615
2.....	1,467	398	168	173	154	20	1						2,381
3.....	1,788	591	243	100	42	11	4	8	2		2		2,792
4.....	1,612	494	235	92	38	10	6	6	1	1	1		2,496
5.....	812	361	386	90	34		4		2				1,689
6.....	1,158	610	277	115	24	12	2	1					2,199
7.....	1,712	466	297	136	41	17	8	2			1		2,680
8.....	1,620	505	345	171	53	9	3	2	1				2,709
9.....	925	450	305	110	40	20	2	1	2				1,855
10.....	1,940	689	375	146	35	7	3						3,195
11.....	1,179	475	283	113	48	20	5	4	7				2,134
12.....	1,615	701	338	113	61	40	13	12	2		1		2,896
13.....	1,611	520	191	81	21	4	1				1		2,430
14.....	1,119	362	180	82	21	2	1	1	2		1		1,771
15.....	1,866	662	297	108	50	18	10	2	1		2		3,016
16.....	1,008	589	361	167	75	23	11	9	1	5	47	17	2,313
17.....	866	368	224	107	27	11	3	2		1			1,609
18.....	1,388	714	383	152	63	20	4	2	1				2,727
19.....	1,132	523	346	159	56	8	2	2	1		1	1	2,231
20.....	1,513	479	247	96	32	4	2						2,333
21.....	911	429	212	87	28	13	2	4			3	3	1,692
22.....	755	550	266	85	23	4	2		3		18		1,706
23.....	1,240	568	357	102	72	15	5	1			6	23	2,389
24.....	1,172	526	265	111	35	5	3	2					2,119
25.....	1,217	520	349	139	37	12	1	2	1		2		2,280
26.....	890	585	497	272	66	22	7	2	4	2	5		2,352
27.....	1,709	637	351	160	51	8	2	1					2,919
28.....	1,506	651	443	156	41	8		3	1	5			2,814
29.....	1,126	482	199	58	11		1						1,877
30.....	1,688	589	390	110	19	1					2		2,799
31.....	1,202	636	466	199	63	14	11	7	1				2,599
32.....	1,053	709	478	212	58	11	3		1				2,525
33.....	943	405	212	130	44	11	7	1	2	4	1		1,760
34.....	824	277	171	102	33	5	5		3				1,420
35.....	1,791	523	332	129	37	6		1	1				2,820
36.....	1,437	534	239	127	50	8	8		1	5	2		2,411
37.....	1,360	703	477	212	55	16	7	1	1			2	2,834
38.....	1,054	333	177	74	29	13	3						1,683
39.....	1,445	476	308	140	36	9	1		1				2,416
40.....	1,881	722	513	216	93	12			1				3,438
41.....	2,180	728	436	213	51	10	5				2		3,625
42.....	1,113	525	302	115	24	10	1	2	1	1			2,094
43.....	1,219	466	310	188	79	28	14	4	2		1		2,311
44.....	928	663	353	64	33	8						1	2,050
45.....	888	466	251	79	24	2							1,716
46.....	905	362	218	119	21	1	1	2					1,630
Total.....	59,746	24,379	14,221	5,987	2,051	521	178	89	47	25	99	47	107,390



## Attention is invited to the following comparisons:

Number of applications pending fifteen years or longer:	
December 31, 1914	37
December 31, 1915	29
December 31, 1916	15
December 31, 1917	18
December 31, 1918	30
December 31, 1919	47
Number of applications pending ten years or longer:	
December 31, 1914	239
December 31, 1915	183
December 31, 1916	141
December 31, 1917	157
December 31, 1918	162
December 31, 1919	146
Number of applications pending eight years or longer:	
December 31, 1914	629
December 31, 1915	419
December 31, 1916	283
December 31, 1917	261
December 31, 1918	237
December 31, 1919	218
Number of applications pending five years or longer:	
December 31, 1914	3,621
December 31, 1915	2,646
December 31, 1916	1,614
December 31, 1917	1,149
December 31, 1918	1,003
December 31, 1919	1,006
Number of applications pending two years or longer:	
December 31, 1914	30,032
December 31, 1915	26,171
December 31, 1916	22,093
December 31, 1917	20,548
December 31, 1918	21,631
December 31, 1919	23,265
Total number pending not in issue or forfeited:	
December 31, 1914	109,846
December 31, 1915	102,632
December 31, 1916	97,463
December 31, 1917	98,558
December 31, 1918	92,156
December 31, 1919	107,390

## OTHER DETAILS OF BUSINESS.

During the year a total of 80,400 applications for patents, reissue of patents, and designs and 141,920 amendments in pending applications were filed. This represents an increase of 20,785 in the number of applications and a decrease of 9,983 in the number of amendments. There were filed without fees, under the act of March 3, 1883, 226 applications for patent, and under Rule 170 of the Rules of Practice 12 applications for reissue, making a total of 238 applications without fees.

The fees received by mail and express amounted to \$1,477,073.13, and the fees paid by hand to the Financial Clerk amounted to \$878,791.13. The number of letters indexed and filed, constituting the general correspondence of the Office, was 288,335. In addition to this 26,825 letters of inquiry were returned with circulars of information answering the questions propounded. The number of parcels received by registered mail was 15,254, and the number of parcels by express was 2,278.

During the year 7,267 applications were forfeited by reason of failure to pay the final fee within the time prescribed by section 4885, Revised Statutes. Since March 3, 1861, about 248,665 forfeited cases have become abandoned.

In the Drafting Division 976 drawings were made for inventors, who paid \$3,679.00 therefor, and 5,163 drawings previously filed were corrected upon request by the inventors, for which the Office received \$5,052.30. The total fees received for work by the Drafting Division were \$8,731.30.

In addition to this 6,813 corrections in drawings were made without cost to the inventors.

In the Assignment Division 27,250 deeds, transferring the titles to patents, etc., and containing 12,991,800 words, averaging 477 words per deed, were recorded. For this work the Office received \$56,043.36. In addition to this the Assignment Division prepared 2,392 abstracts of title and 4,160 briefs, for which fees amounting to \$3,127.85 were paid. The total earnings of the Assignment Division were \$59,171.21.

Typewritten copies of records aggregating 11,425,400 words and photostat copies aggregating 15,795,200 words were furnished, and other copies containing 6,918,100 words, made by outsiders, were compared and certified by the Office. For the whole of this work the Office received \$34,138.70. For the certificates attached to certain of these copies the Office received \$1,708.75, a total of \$35,847.45. The Office supplied 2,616 certified printed copies of patents, 5,755 trade-marks, 51 copies of prints and labels, 5 copies of designs, etc., and received therefor \$6,870.00.

Inventors and attorneys were furnished with 60,791 photographic copies of drawings, 8 by 12½, at fifteen cents each, and 5,285 photographic copies of drawings, 10 by 15, at twenty-five cents each; also, 67,405 photostat copies at fifteen cents each and 54,204 photostat copies at twenty-five cents each. The amounts received for these photographic and photostat copies were \$10,439.90 and \$23,661.75, respectively. The expenditures during the year for supplies for the photostat-machine were \$8,352.18.

Printed copies of specifications and drawings of patents to the number of 2,495,305 were sold at five and ten cents each, (the price having been increased to ten cents by act of Congress effective November 4, 1919,) bringing to this Office on this account \$138,629.50. For 633,342 copies sold to libraries the Office received \$800.00. The total received from the sale of copies of patents was \$139,429.50, an increase of \$40,765.35 over the receipts for last year. Copies to the number of 960,097 were shipped to foreign Governments, and 123,327 copies were drawn for Office use. The total number of printed copies of patents distributed during the year was 4,443,965.

## CLASSIFICATION OF PATENTS.

The complete reclassification of the entire million and a third patents granted in this country, which revision was rendered necessary because the older classification had become obsolete and outgrown by the advances in the arts, has proceeded much more rapidly the past year than heretofore by reason of the change in the methods of procedure. Formerly the work was all done in one division by a corps of Assistant Examiners, under the supervision of the Examiner of Classification. Under the present plan each class is reclassified by the Assistant Examiner who has examined it for years and is presumably familiar with all its patents. All the work is still under the supervision of the Examiner of Classification. The revision of something over one hun-



dred and thirty-five thousand patents was completed during the year 1919. The work has, however, been greatly delayed by lack of clerks to perform the necessary clerical work. The task has proved a very great and extremely technical one, and, largely because similar machines and processes are often used in half a dozen different arts and for as many different purposes, most elaborate and exhaustive investigations are necessary in order to bring patents for like things together or place them where they may be readily found. If the rate of revision of last year can be maintained, all the classes will have been revised within three or four years.

#### SCIENTIFIC LIBRARY.

In the Scientific Library the most noteworthy event of the year 1919 was the completion of the binding, in classified order, of the patents of all foreign countries, except Great Britain, from which we have received third copies.

These patents, the accumulation of years, are representative of Austria, Denmark, France, Norway, Sweden, and Switzerland and were all arranged according to the classification order of their respective countries and are now bound and are on the shelves.

The third copies, being currently received from these countries, are arranged in classified order and are kept in boxes available to searchers. As these accumulations become sufficiently large to form volumes they should be bound, as are the first or original copies, and it is obvious that this means an addition to the annual cost of library binding, for which provision should be made in future estimates.

The Netherlands patents are also available, arranged in classes, and will be bound as they accumulate.

Unfortunately the library did not possess a complete third set of German patents, the earlier numbers up to 66,500 never having been received. All the later issues, however, on hand have been bound in classified order and have proved to be of an inestimable value to searchers. An attempt will be made on the conclusion of peace to secure the patents necessary to complete this set.

The library also possesses a third set of British patents, which hitherto have been stored away in their original packages, as received. It is possible that at some future time this Office may decide to arrange and bind this set in classified order; but as very satisfactory searches can now be made in the classified British Abridgements of Patents, which are in this library, there is no urgent need of this work at present. Consideration is being given to the recommendation that this set be at least arranged in numerical order in file-cases, so that they may be used instead of the bound volumes for making photostatic copies, as single copies are much better adapted to this use and would save the wear and tear of the bound volumes, rebinding of which costs a considerable sum.

Some progress has already been made in arranging this set in numerical order, and it is hoped the library will be provided with sufficient employees to continue and complete this work. Should the

Office decide later to arrange them in classified order, the work would not be lost as preliminary to arranging them in classified order.

Through arrangements with the Australian patent office the exchange of their patent specifications for those of the United States has been resumed, and all the back numbers of Australian patents from the time the exchange was suspended in 1910 have been received by the library. In carrying on the general work of the library we have been greatly handicapped by lack of sufficient help.

The work of consolidating into one card-catalogue the several separate catalogues in this library is rapidly progressing; but there is yet considerable work to be done in the entry of our books in this consolidated catalogue, and in view of its importance in readily locating a book an endeavor will be made to provide, if possible, sufficient employees to continue and complete the work at an early date.

During the year the translation of the index to the German classification, which was made by the official translator in 1918, was printed and has proved of great service in searching. A typewritten translation, by the same translator, of the French patent office classification is now used in the reading-room of the library. There is under consideration the question of printing this translation, as being then in a more permanent form.

#### PRINTED COPIES OF PATENTS.

The system of storing and delivering copies of patents has developed haphazardly, in accordance with no preconceived general plan and under conditions which could neither be controlled nor foreseen. There are about forty million copies stored from cellar to garret in no regular sequence, in every conceivable location, and under every variety of state. It is a problem that has given concern to the officials for many years; but it did not become pronounced until early in the year 1919, when a rush of increased orders precipitated a condition which exposed the serious inadequacy of that service. The public could not receive adequate responses to its legitimate demands, many interests suffered, and the Office was at a loss to know how to apply an immediate remedy. Recourse was had to a request for additional help, which Congress gave in an act which became available in November. Meanwhile it was decided to make a survey of the entire situation, and I issued instructions to proceed in that investigation and to make that problem a special concern. The Bureau of Efficiency, in response to my request for assistance, detailed experts to aid in this survey, and it is confidently expected as a result of the investigations pursued and from an analysis of the large amount of data gathered that improved conditions will be established and the public rendered that accommodation it is legitimately entitled to obtain.

While the state of the appropriation forbids the installing of adequate equipment, it was deemed advisable to expend out of the limited allotment of the Bureau a sum sufficient to install a steel-case



unit large enough for purposes of experimentation. It has been put in place, and a trial confirms the impression that something similar to it should be contrived in order to provide means to scientifically store the copies, prevent losses thereof, accurately locate them, and assure against danger of fire.

Other changes proposed and which are in process of being effected are the rearranging of the copies as near as may be in continuous chronological sequence, in restoring to proper position and making accessible copies out of place or in jumbled condition, marking out exclusive shelving territory and confining activities in each unit to but one copy-puller, and, lastly, introducing a system of rigid supervision and inspection.

#### REGISTRATION OF ATTORNEYS.

In conformity with the tendency in recent years, the standard for admission to practice before the Patent Office is being strictly maintained. The records of candidates for admission are closely scrutinized to prevent the registration of those not fully qualified to properly assist clients in the presentation and prosecution of their cases before this Office.

Where applications for patents are referred to as showing the requisite qualifications for admission, these are carefully examined for evidence of a possession and exercise of that knowledge of patent law and procedure requisite for proper protection of the applicant's rights. The evidence submitted of the candidate's technical and scientific knowledge is also carefully considered.

Similar investigation is being made in the cases where candidates base their requests for registration merely on a knowledge of general law.

The necessity of safeguarding inventors through a closer scrutiny of those who desire to represent them before the Patent Office is a pressing one. The capacity and probity of members of the Patent Office bar can hardly be fixed at too high a standard. The knowledge, both of technics and patent practice, necessary to properly assist applicants for patents in their endeavors to obtain proper protection is becoming greater every day, due to the constant growth of the arts, the greater complexity of the scientific questions involved, and the immense body of legal literature that has arisen. It may therefore become necessary in the future, as the arts and questions involved become more and more complex, to insist upon more extensive proofs of qualifications than have been required in the past.

#### ADVERTISEMENTS OF ATTORNEYS.

The practice, inaugurated in 1918 by an amendment to Rule 17, of requiring submission for approval of all proposed advertising-matter intended to solicit patent business by registered attorneys has been adhered to and vigorously carried out during the past year, with what I believe to be gratifying results. Registered attorneys have conformed to the rules almost universally, and a number of unregistered firms and individuals soliciting patents through registered attorneys have voluntarily become amenable to the rule.

Misleading advertisements and circulars are doubtless still published; but a healthy sentiment against them has been established among advertising registered attorneys, which I regard with the greatest satisfaction.

The ethics of the profession are being observed more generally, and it is hoped another year will show even better results along this line and a patent bar emerge in which membership may be an indication universally of assured capacity to render faithful and proper service, in conformity to existing standards maintained by the bulk of the profession.

#### EQUIPMENT.

The equipment of the Office is insufficient for its requirements and is much below average in quality. This particularly applies to the state of the filing-cases to store copies of patents for use of Examiners in searching. Typewriting-machines are also urgently needed, the number in use being insufficient for the present needs of the Office and the quality of many below the standard necessary to perform effective work.

#### PERSONNEL.

##### *Clerical force.*

There were 123 resignations in 1919 in this branch of the service out of a total of about 525 employees, a rate of movement which was reflected in serious measure in the character of the work done. In the lower grades the overturn was from 75 per cent. to 150 per cent. On November 4, 1919, the deficiency bill was signed and gave to the Patent Office a number of clerks about equal to the amount dropped the previous July, and also provided fifteen additional copy-pullers. A few weeks later a further request for supplemental appropriations to provide an increase in force was obliged to be submitted. An increase in the clerical force of about five per cent. was asked for to take care of a general increase of fifty per cent. in the business of the whole Office. At this writing the second deficiency bill, containing this item, has been passed by both houses of Congress and is in conference, and when effective will materially relieve the critical situation now existing in the means for doing business in the Office and expedite the work to current condition in certain departments where the situation has caused annoyance to the public concerned.

##### *Examining corps.*

In the examining corps the following resignations took place during the year 1919:

Law Examiners.....	1
Principal Examiners.....	4
Trade-Mark and Design Examiners.....	1
First Assistant Examiners.....	12
Second Assistant Examiners.....	25
Third Assistant Examiners.....	14
Fourth Assistant Examiners.....	24
Total.....	81

In order to keep the ranks full it was necessary for the Civil Service Commission to hold five examinations during the year for entrance to the corps and to make fifty-five temporary appointments for the balance of the vacancies not obtainable through the regular channels.



During the year thirty-one men who resigned to enter the military service were reinstated, many of whom again resigned from the Office to enter private practice. Leaving out of consideration those in former years who resigned to enter the military service, the number of resignations the past year from the corps was the largest in the history of the Office. This is due not only to the general resumption of activity in peaceful pursuits, but to a rapidly-growing tendency in the commercial world to provide patent departments as essential adjuncts to manufacturing and industrial plants. The results of the great war and an examination of the conditions preceding it show most conclusively that the welfare, if not the very life, of a highly-industrialized nation is directly dependent upon the progress of invention and to the extent it is stimulated by governmental action. It is responsive to this rule that the tendency above noted is due. The effect of this on the Patent Office is detrimental in two opposing directions. The demands for technical and legal men to take charge of these patent departments in manufacturing plants can be answered only from one readily-available source of supply—that is, the Patent Office, where men with special technical qualifications and legal education are trained for this work. This new and growing activity results, on the other hand, in additional business before the Office. The effect is at the same time to increase the business of the Patent Office and to reduce the capability of the force to handle even the normal demands upon it.

The greatest possible emphasis must be laid upon this situation, because it vitally affects large industrial interests, which are bound up in their development with the character of the title to important property rights, as determined by the proceedings in the Patent Office. The adjudications of the Office must depend in quality upon a force sufficient in numbers to handle the increased amount of business before it and adequately recompensed to attract and hold men sufficiently qualified for service through special education and training.

In the last six months the changes in this most important branch of the service reached a twenty-five to thirty per cent. annual overturn, which obviously reduced the capacity of the corps and impaired the quality of the work. If the safeguards of the patent system are to be preserved, this tendency, which has been becoming more and more intensified in recent years and which promises to be even more acute in the immediate future, must be provided for by remedial legislation adequate to go to the root of the trouble.

Before this report was completely written a bill (H. R. 11954) introduced by Mr. Nolan in the House of Representatives—"To Increase Force and Salaries in Patent Office"—and receiving unanimous approval of the Patent Committee was submitted to the Committee of the Whole House on the State of the Union. Under its provisions Primary Examiners receive \$3,900 per annum and Assistant Examiners are graded from \$1,500 to

\$3,300, chiefs of clerical divisions receive \$2,500, and the salaries of draftsmen and lower-grade clerks increased to conform to wage standards in other Government Bureaus. The filing fee of applications has been changed from fifteen dollars to twenty dollars, and this change and the increase of revenue due to increase of business have been estimated to provide sufficient funds to pay for the increased expenditures thus provided.

It is hoped the bill will be enacted, as it provides relief in the directions already indicated as necessary and will go far in restoring the patent system to its proper usefulness.

#### LEGISLATION TO IMPROVE THE PATENT OFFICE.

For the 1921 regular legislative appropriation bill estimates were submitted for an increased force of Examiners and clerks and included an item covering urgent requirements for equipment. At this writing this legislative appropriation bill was reported out of committee with substantially every request asked for included therein. From the attitude of the present Congress, as indicated in its actions toward legislation affecting the Patent Office in the second deficiency and 1921 legislative bills and the Nolan bill. (H. R. 11984,) there has arisen much confidence of a restoration of usefulness of this Bureau's functions. The intelligent consideration and almost anxious interest displayed by every member of Congress coming in contact with these matters must be noted, and the gratitude of every friend of the patent system is due for this favorable attention of and response to the needs of the Bureau.

I wish also in this connection to express my personal gratitude to the representatives of the scientific, manufacturing, and legal interests who have so unselfishly, laboriously, and skilfully acted in behalf of the Patent Office. Without the mass of information they collected, the intelligence with which it was digested and presented, and the forceful backing they gave the movement through their high standing and disinterestedness it is questioned whether the results could have been so favorable.

To make the record complete, however, note must be made of the active and disinterested service of many of the members of the examining corps. The Patent Office Society, composed mainly of such membership, is devoted to furthering the interests of the patent system, particularly in promoting improvements therein.

In furtherance of such purpose the society is publishing a monthly magazine, in which have appeared articles contributed gratuitously by members of the corps and attorneys practising before the Office. Many of them are the result of laborious research and of high technical excellence and disclose, as no other source has done, the fine spirit of devotion to the best precepts of professional conduct that animates the corps and the intense interest that prevails among them in the improvement and progress of the patent system. This society has formed a bond between the legal fraternity and the technical corps of the Office in the discussion of measures,



whether administrative, legal, or technical, designed to elucidate principles or propose reforms, and it is confident that as a result of its activities the large vital forces of this country which depend for their effectiveness upon a progressive efficient patent system will be considerably the gainer.

#### IN GENERAL.

The year 1919 was the busiest in the history of the Patent Office. The cessation of the war turned the activities of producers from war to peace production, and this movement was soon reflected in the receipts of the Office, which increased by leaps and bounds, with an acceleration which grew greater as the months passed by. There was an increase of thirty-five per cent. in the total of applications for patents and designs received over the preceding year, and during the last six months the increase was more than fifty per cent. over the corresponding period of 1918. The general amount of correspondence increased twenty-five per cent. for the year, deeds received for recording in the Assignment Division increased fifty-one per cent., the number of words ordered in manuscript copies increased over fifty per cent., and the number of printed copies sold increased twenty-eight per cent., while the orders for same increased over thirty-five per cent. The increase in receipts in applications for registration of trade-marks was particularly heavy, amounting to seventy-eight per cent. for the year and substantially over one hundred per cent. for the latter half of the year.

The number of patents granted was the smallest since 1913, and this department of the Office was the only one whose activities of the year were below normal. It takes from fifteen to twenty-four months before increased receipts in the other divisions of the Office are reflected in the change of number of patents granted, and, judging from the past, the latter half of the year 1920 will show unusual increments of patents granted.

The cash receipts for the year increased 22 per cent., and a deficit of \$73,419.35 for 1918 was converted into a surplus of \$106,651.75 for 1919. If the item "Increase of compensation" be ignored and the comparison in balances placed upon a common basis for the two years the net balance showed a favorable increase of \$333,133.82.

The intimate connection between industrial progress and the business of the Patent Office is shown by these figures; but the interdependency of industrial security and efficient performance of the functions of this Bureau can only be realized by a study of that relationship and by a knowledge of the economic history of the country. It is no exaggeration to declare that the work of the civilized world is done mainly by instrumentalities which have resulted from the exercise of invention, that the energy generated by engines and devices invented since the first rumblings of the American Revolution have multiplied the power of mankind a thousandfold, and that if dependence were placed solely upon man's muscular efforts the world in its pres-

ent state could not exist. In the production of food, to give one instance, the reaper and thresher alone have done immeasurably more to increase the supply of man's basic need than all the agencies of educational propaganda and institutional assistance together. It would be presumptuous to try to reckon the increased growth in property values due to the steam-engine, the steamship, and the railroad. It would stagger the imagination to figure the added prosperity given to the world by the Bessemer process alone. In the two departments of electricity and chemistry inventions in the last forty years have provided an increment of wealth, productivity, and comfort beyond computation. The World War in its four years of destruction expended a greater amount of energy and required for its conduct more material of manufacture than was probably liberated by mankind or fashioned by all the world's peoples from the dawn of history to the invention of the steam-engine. Such efforts and such expenditures of material could only come from the processes and products of invention. It illustrates and most emphatically emphasizes the fact that invention is the special phenomenon of our present time.

It is as essential to our progress as is an established government to our security, and in the race between nations that country which provides the most enlightened patent system and which fosters most the inventive spirit is bound to win, for a little contemplation given to the subject will readily convince one that no method of personal improvement, no efficiency system, no particular political reorganization is comparably potent to the results of a great invention in increasing production—the wherewithal of industry, commerce, and welfare. No matter how the individual efficiency of the human element is increased—say fifty per cent., one hundred per cent., or conceivably two hundred per cent.—there cannot be competition with the results of invention, where a machine tended by a few men may perform the labor of hundreds or whereby a process may perform miracles unattainable through any other agencies.

With all our remarkable advances in knowledge we are but at the beginning of things. There is no estimable limit to the extent of our acquirements, for we cannot begin to conceive of the actual nature of our world, of the fundamentals of our existence. There is so much to learn that no matter how far we go we have yet to traverse illimitable distances on the road to the infinite stores of complete knowledge. As our utilization of the secrets of nature is directly dependent upon how much of them we have discovered, so every advance in scientific knowledge opens up a vista of new utilizations. As invention is the channel through which science finds utilitarian expression, it is clear there are no ascertainable limitations to the advance of invention, to the benefits that may accrue to mankind through its exercise.

Respectfully submitted,

J. T. NEWTON,  
Commissioner of Patents.







# ALPHABETICAL LIST

## OF

# PATENTEES FOR THE YEAR 1919.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

- A. Boake, Roberts & Co. (See Durrans, Thomas H., assignor.)
- A. Hoen & Company. (See Ziegler, Oscar G., assignor.)
- A. Hollander & Son. (See Dickerson, Malcolm, assignor.)
- A. Kimball Co. (See Anthony and O'Donnell, assignors.)
- A. Kimball Company. (See Anthony, Marcus O., assignor.)
- A. Kimball Company. (See Wallin, Gustaf A., assignor.)
- A. Mecky Company. (See Gerson, Nikolaus, assignor.)
- A. Mecky Company. (See Ledig, Richard G., assignor.)
- A. Mecky Company. (See Ledig and Gerson, assignors.)
- A. Ramsay and Son Company. (See Booth, Harvey B., assignor.)
- A. Reyrolle & Company Limited. (See Coates and Mirrey, assignors.)
- A. Schoenhut Company, The. (See Schoenhut, William G., assignor.)
- A. Schrader's Son. (See Bowden, Junius A., assignor.)
- A. Schrader's Son. (See Edelmann, Erich, assignor.)
- A. Schrader's Son. (See Hammond, William P., assignor.)
- A. Schrader's Son. (See Henemier, Robert B., assignor.)
- A. Schrader's Son. (See Kautzman, Philip W., assignor.)
- A. Schrader's Son. (See Myers, Eugene V., assignor.)
- A. Schrader's Son. (See Nielsen, Frederik, assignor.)
- A. Schrader's Son. (See Patton, Moses F., assignor.)
- A. Schrader's Son. (See Schweinert and Kraft, assignors.)
- A. Schrader's Son. (See Schweinert and Volckhausen, assignors.)
- A. Schrader's Son, Incorporated. (See Bowden, Junius A., assignor.)
- A. Schrader's Son Incorporated. (See Nielsen, Frederik, assignor.)
- A. Stein & Company. (See Korfist, Adam J., assignor.)
- A. Wittmayer Co. (See Trommer, Charles F., assignor.)
- A. A. Simonds & Son Company, The. (See Allison, Albert J., assignor.)
- A. B. C. Motors Limited. (See Bradshaw, Granville E., assignor.)
- A. C. Gilbert Company, The. (See Gilbert, Alfred C., assignor.)
- A. C. Gilbert Company, The. (See Stone, Harris D., assignor.)
- A-C Manufacturing Company. (See Kuhr, Carl A., assignor.)
- A-C Manufacturing Company. (See Sebastian and Capes, assignors.)
- A. E. Little Company. (See Howard, Merton W., assignor.)
- A. E. Peck Manufacturing Co. (See Peck, Arthur E., assignor.)
- A. G. Brown Roveri & Cie. (See Buchli, Jacob, assignor.)
- A. G. Spalding & Bros. (See Halsey, Norman W., assignor.)
- A. G. Spalding & Bros. (See Reach, William F., assignor.)
- A. H. and F. H. Lippincott. (See Lippincott Fisher H., assignor.)
- A. I. Root Company, The. (See Root, Huber H., assignor.)
- A. J. Deer Company, The. (See Hand and Wygant, assignors.)
- A. J. Lindemann & Hoverson Company. (See Brennan and Nicholas, assignors.)
- A. J. Tower Company. (See Barker, Walter S., assignor.)
- A. K. S. Mfg. Co. (See Buchanan and Porter, assignors.)
- A. M. Bolterman, Inc. (See Kuss, Rudolf, assignor.)
- A. M. Castle & Co. (See Gabriel, Charles, assignor.)
- A. O. Norton, Inc. (See Gormley, Frank L., assignor.)
- A. O. Smith Corporation. (See Smith, Charles S., assignor.)
- A. O. Smith Corporation. (See Smith, Reuben S., assignor.)
- A. O. Smith Corporation. (See Starr, Herman J., assignor.)
- A. O. Smith Corporation. (See Westmore, Halward G., assignor.)
- A. R. Mosler & Co. (See Mosler and Margolin, assignors.)
- A/S. Myrens Verksted. (See Alfsen, Adolf A., assignor.)
- A/S. Norsk Staal. (See Gröndal, Gustaf, assignor.)
- A/S Norsk Traeror Kompani. (See Kielland, Alfred, assignor.)
- A. W. Benson Manufacturing Company. (See Long, Sidney L., assignor.)
- Aab, William, New Ulm, Minn. Cylinder-boring attachment for lathes. No. 1,295,251; Feb. 25; v. 259; p. 618.
- Aab, William, New Ulm, Minn. Wrist-pin. No. 1,322,991; Nov. 25; v. 268; p. 662.
- Aalborg, Christian. (See Conrad and Aalborg.)
- Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Arc-lamp. No. 1,294,020; Feb. 11; v. 259; p. 275.
- Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Post-type arc-lamp. No. 1,309,711; July 15; v. 264; p. 380.
- Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Ignition mechanism. No. 1,314,492; Sept. 2; v. 266; p. 3.
- Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Current-collecting device. No. 1,318,713; Oct. 14; v. 267; p. 262.
- Aamodt, Hans, Stoughton, Wis. Manure-spreader. No. 1,326,163; Dec. 30; v. 269; p. 711.
- Aarous, Jacob M., assignor to The Excello Manufacturing Company, Cleveland, Ohio. Coating for boiler-settings and the like. No. 1,310,591; July 22; v. 264; p. 572.
- Aas, Peter R., Trondhjem, Norway. Bitless bridle. No. 1,315,357; Sept. 9; v. 266; p. 172.
- Aasen, Niels W., Christiania, Norway. Device for shooting grenades. No. 1,309,791; July 15; v. 264; p. 395.
- Abarca, Enrique, San Juan, Porto Rico. Support for expanding metal articles. No. 1,300,091; Apr. 8; v. 261; p. 362.
- Abbenzeller, Alfred D., Randolph, assignor to Universal Sickle Bar Company, Boston, Mass. Sickle-bar. No. 1,306,242; June 10; v. 263; p. 223.
- Abbenzeller, Alfred D., Randolph, assignor to Universal Sickle Bar Company, Boston, Mass. Sickle-bar. No. 1,319,131; Oct. 21; v. 267; p. 366.
- Abbenzeller, Alfred D., Randolph, assignor to Universal Sickle Bar Company, Boston, Mass. Sickle-bar. No. 1,319,132; Oct. 21; v. 267; p. 367.
- Abbey, Charles P., assignor to Karbuab Company, Chicago, Ill. Carbureter. No. 1,290,028; Jan. 7; v. 258; p. 3.
- Abbott, Chauncey W., assignor to American Conduit Manufacturing Company, Pittsburgh, Pa. Metal conduit for electric wires. No. 1,291,699; Jan. 21; v. 258; p. 455.
- Abbott, Chauncey W., assignor to The American Conduit Manufacturing Company, Pittsburgh, Pa. Electrical conduit. No. 1,299,280; Apr. 1; v. 261; p. 151.
- Abbott, Dewit C., Augusta, Kans. Irrigating apparatus. No. 1,294,749; Feb. 18; v. 259; p. 480.
- Abbott, Edward J., Wilton, N. H. Stub-remover. No. 1,311,788; July 29; v. 264; p. 827.
- Abbott, Frank E. (See Palmer and Abbott.)
- Abbott, George W., Newtonville, Mass. Ticket-holder. No. 1,294,021; Feb. 11; v. 259; p. 275.
- Abbott, Harry R., assignor to Brockton Heel Company, Inc., Brockton, Mass. Composite heel. No. 1,311,545; July 29; v. 264; p. 783.
- Abbott, Harry W., Chicago, Ill. Transmission-lock. No. 1,318,040; Oct. 7; v. 267; p. 72.
- Abbott, James H., Philadelphia, Pa. Facing for dental bridges. No. 1,317,255; Sept. 30; v. 266; p. 622.
- Abbott, John R., assignor of one-fourth to L. Stoddard and one-fourth to W. E. Stoddard, Council Bluffs, Iowa. Hammer mechanism for rock-crushing and other purposes. No. 1,315,406; Sept. 16; v. 266; p. 378.
- Abbott Laboratories, The. (See Ranson and Gerstung, assignors.)
- Abbott, Leonard G., assignor to Standard Bottle Stopper Co., Boston, Mass. Bottle-stopper. (Reissue.) No. 1,463,030; Apr. 8; v. 261; p. 393.



- Abbott, Lyle S., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Process of and apparatus for making halids. No. 1,308,885; July 8; v. 264; p. 189.
- Abbott, Osborne H., London, England. Drying-chamber. No. 1,302,490; May 6; v. 262; p. 3.
- Abbott, Percy C., assignor to Hardware Specialty Co., Inc., Richmond, Va. Saw-handle. No. 1,324,712; Dec. 9; v. 269; p. 326.
- Abbott, Robert R. (See Sherbondy, Earl H., assignor.)
- Abbott, Samuel, assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Machine for forming box-bodies and the like. No. 1,323,143; Nov. 25; v. 268; p. 690.
- Abbott, William G., Jr., Wilton, N. H. Welding apparatus. No. 1,311,789; July 29; v. 264; p. 827.
- Abby, Warren L., Turlock, Cal. Soap-dispensing receptacle. No. 1,292,983; Feb. 4; v. 259; p. 3.
- Abdo, Elias, Pittsburgh, Pa. Paper-bag holder. No. 1,315,272; Sept. 9; v. 266; p. 156.
- Abe, Hikokichi, assignor to J. Endow, Yamagata-Ken, Japan. Electric clock. No. 1,325,823; Dec. 23; v. 269; p. 612.
- Abel, Arthur W., Oklahoma, Okla. Apparatus for measuring liquids. No. 1,326,705; Dec. 30; v. 269; p. 813.
- Abel, Charles, Fort Sam Houston, Tex. Rotary tooth-brush. No. 1,297,771; Mar. 18; v. 260; p. 499.
- Abel, Charles C., Harriman, Tenn. Blank form. No. 1,299,531; Apr. 8; v. 261; p. 236.
- Abel, John H., Monessen, Pa. Slag-remover. No. 1,303,225; May 13; v. 262; p. 171.
- Abele, Hermann, assignor to O. F. Fiertz, Zurich, Switzerland. Bundling-press. No. 1,306,571; June 10; v. 263; p. 283.
- Abeles, James A. (See Arnold, George O., assignor.)
- Abeles, James A. (See Durland, Ralph A., assignor.) (Reissue.)
- Abell, Rollin, Milton, Mass. Internal-combustion engine. No. 1,311,200; July 29; v. 264; p. 718.
- Aber, George B., Cranberry Lake, N. Y. Rotary gas-engine. No. 1,315,897; Sept. 9; v. 266; p. 269.
- Abernathy, Charles F., West Asheville, N. C. Surgical appliance. No. 1,302,751; May 6; v. 262; p. 51.
- Abernathy, Thomas S., Birmingham, Ala. Razor-blade knife. No. 1,300,802; Apr. 15; v. 261; p. 539.
- Abernathy, Harry D. (See Abernethy, Harry M. and H. D.)
- Abernethy, Harry M. and H. D., assignors of one-half to H. Fuller, East Cleveland, Ohio. Insulating aluminum-covered copper conductors. No. 1,323,236; Dec. 2; v. 269; p. 3.
- Abitz, Walter W., assignor to Rockford Metal Specialty Company, Rockford, Ill. Reversible gearing. No. 1,290,473; Jan. 7; v. 258; p. 112.
- Able, James, Nashville, Tenn. Brake for motor-vehicles. No. 1,300,209; Apr. 8; v. 261; p. 387.
- Able, James, Nashville, Tenn. Self-starter. No. 1,320,436; Nov. 4; v. 268; p. 15.
- Able, Paul, Chicago, Ill. Fuel-feeding means for internal-combustion engines. No. 1,290,029; Jan. 7; v. 258; p. 4.
- Ablitt, Edward F., London, England. Electrode of secondary batteries. No. 1,298,148; Mar. 25; v. 260; p. 604.
- Aborn, Albert, assignor of one-third to F. L. Miner and one-third to O. G. Chesley, Des Moines, Iowa. Calendar. No. 1,321,498; Nov. 11; v. 268; p. 279.
- Abraham, Herbert, New York, N. Y., assignor to The Standard Paint Company. Bituminized fabric. No. 1,311,941; Aug. 5; v. 265; p. 17.
- Abrahams, Winfield J., Baltimore, Md. Railway-spike. No. 1,303,002; May 6; v. 262; p. 100.
- Abrahamsen, Brynjulv, Trondhjem, Norway. Sheet-iron plate. No. 1,312,937; Aug. 12; v. 265; p. 237.
- Abrahamson, Gustaf, Hillevaag, pr. Stavanger, Norway. Fuel-injecting device for combustion-engines. No. 1,301,211; Apr. 22; v. 261; p. 662.
- Abrahamson, Jacob, Asbury Park, N. J. Hand-ball. No. 1,299,092; Apr. 1; v. 261; p. 109.
- Abram Cox Stove Company. (See Mott, Abram C., Jr., assignor.)
- Abram Cox Stove Company. (See Mott, Meyer, Halteman, and Wheawill, assignors.)
- Abramovitch, Helman, Little Rock, Ark. Safety attachment for pockets. No. 1,306,296; June 10; v. 263; p. 233.
- Abramovitz, Hyman L. (See Semenow and Abramovitz.)
- Abrams, Herbert T., Orange, assignor to Ingersoll-Rand Company, Jersey City, N. J. Apparatus for elevating fluids by compressed air. No. 1,302,268; Apr. 29; v. 261; p. 895.
- Abrams, Jesse E., Canonsburg, Pa., and G. E. D. Parker, assignors to Continental Can Company, Inc., Syracuse, N. Y. Sheet-metal-feeding mechanism. No. 1,307,171; June 17; v. 263; p. 425.
- Abrams, John M., Brooklyn, N. Y. Pneumatic saw. No. 1,306,395; June 10; v. 263; p. 251.
- Abshire, William C., et al. (See Eckert, Lewis V., assignor.)
- Abtmeyer, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Percolator. No. 1,308,023; July 1; v. 264; p. 3.
- Abtmeyer, Theodore, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Percolating apparatus. No. 1,317,256; Sept. 30; v. 266; p. 622.
- Accessories Manufacturing Co. (See Bramming, Carl, assignor.)
- Accornero, Louis R., and A. Gaydou, New York, N. Y. Landing device for aeroplanes. No. 1,312,507; Aug. 12; v. 265; p. 153.
- Accounting Devices Company. (See Dunbar, Charles J., assignor.)
- Acebal, Joseph, Habana, Cuba. High-pressure safety-valve. No. 1,290,030; Jan. 7; vol. 258; p. 4.
- Achberger, Jozef, Middletown, Ohio. Non-skid device. No. 1,290,474; Jan. 7; v. 258; p. 112.
- Achiba, Tomokichi, Tokyo, Japan. Mat for stopping leaks in vessels. No. 1,306,938; June 17; v. 263; p. 384.
- Achtmeyer, William, Middletown, Conn. Woven cartridge-belt. No. 1,306,248; June 10; v. 263; p. 223.
- Achtmeyer, William, assignor to The Russell Manufacturing Co., Middletown, Conn. Covering. No. 1,303,224; May 13; v. 262; p. 171.
- Achtmeyer, William, assignor to The Russell Mfg. Co., Middletown, Conn. Woven garter-pad. No. 1,310,271; July 15; v. 264; p. 482.
- Acieries et Fonderies d'Art de Haine Saint Pierre et Metallurgique Lilloise, Société Anonyme. (See Rappcy, Nicolas, assignor.)
- Ackels, Mathias E. (See Ackels, Paul J. and M. E., assignors.)
- Ackels, Paul J. and M. E., Sidney, Nebr. Portable combined provision-box and table. No. 1,301,351; Apr. 22; v. 261; p. 691.
- Acken, Wiley S., Jersey City, N. J. Shield for glasses. No. 1,323,805; Dec. 2; v. 269; p. 109.
- Acker, Elmer L., Chicago, Ill. Vehicle-wheel. No. 1,296,151; Mar. 4; v. 260; p. 78.
- Acker, George C., Jacksonville, Fla. Attachment for locomotives. No. 1,308,467; July 1; v. 264; p. 84.
- Ackerman, Albert H. (See Park, James D., assignor.)
- Ackerman, Albert H., assignor to The Ackerman Wheel Company, Cleveland, Ohio. Resilient element. No. 1,324,440; Dec. 9; v. 269; p. 275.
- Ackerman, Frank W. (See McMahon and Ackerman.)
- Ackerman, Fred, Vancouver, British Columbia, Canada. Fishing-bait. No. 1,326,821; Dec. 30; v. 269; p. 836.
- Ackerman, John O., and J. Moe, Des Moines, Iowa. Drill-operating mechanism. No. 1,301,531; Apr. 22; v. 261; p. 724.
- Ackerman, Walter H., Jamestown, N. Y. Trolley-harp. No. 1,291,348; Jan. 14; v. 258; p. 341.
- Ackerman Wheel Company, The. (See Ackerman, Albert H., assignor.)
- Ackerman, William. (See Nicholas and Ackerman.)
- Ackermann, Hans, San Francisco, Cal. Garment-support. No. 1,295,094; Feb. 25; v. 259; p. 583.
- Ackermann, William F. D., Kaylor, S. D. Device for candling, handling, and sorting eggs. No. 1,305,861; June 3; v. 263; p. 119.
- Ackers, Frank O., assignor to The Safety Wire Gas Globe Company, Columbus, Ohio. Tooth-brush holder. No. 1,291,349; Jan. 14; v. 258; p. 342.
- Ackers, Frank O., assignor to The Safety Wire Gas Globe Company, Columbus, Ohio. Manufacturing wire globes. No. 1,321,410; Nov. 11; v. 268; p. 263.
- Ackerson, Fred H., Wichita, Kans. Brick-mason's joint raker and smoother. No. 1,292,558; Jan. 28; v. 258; p. 687.
- Acland, Edward H., Toronto, Ontario, Canada. Billiard-table cushion-rail. No. 1,323,516; Dec. 2; v. 269; p. 55.
- Acme Car Seal Co., The. (See Petry, William, assignor.)
- Acme Card System Company. (See Anthony, Stanley, assignor.)
- Acme Card System Company. (See Hendry, James R., assignor.)
- Acme Card System Company. (See MacDonagh, Frank L., assignor.)
- Acme Cement Plaster Company. (See Pipe, Edward H., assignor.)
- Acme Die Casting Corporation. (See Bungay, George W., assignor.)
- Acme Harvesting Machine Co. (See Werckle, Frank W., assignor.)
- Acme Harvesting Machine Company. (See Swartz, George W., assignor.)
- Acme Knitting Machine and Needle Company. (See Stewart, Albert E., assignor.)
- Acme Motion Picture Projector Company. (See Larsen, Holmes, and Larsen, assignors.)
- Acme Shear Company, The. (See Koehler, Edward, assignor.)
- Acme Steel Goods Company. (See Norton and Fork, assignors.)
- Acme Stripping and Booking Machine Co. (See Morris, John O., assignor.)
- Acme Tool & Machine Co., The. (See Allen, Ralph, assignor.)
- Acme Tool Machine Co., The. (See Giles, Julian A., assignor.)
- Acopian, Soeren, Montreal, Quebec, Canada. Telephone-bell damper. No. 1,297,982; Mar. 25; v. 260; p. 569.



## Alphabetical list of patentees—Continued.

- Acree, Arthur B. (See White and Acree.)
- Acton, Edward H., F. E. Dickie, and T. Pratt, Shawinigan Falls, Quebec, Canada, assignors to Aluminum Company of America, Pittsburgh, Pa. Casting-machine. No. 1,316,471; Sept. 16; v. 266; p. 391.
- Acton, Michael J., Framingham, assignor to Lapointe Machine Tool Company, Hudson, Mass. Broaching-machine attachment for splitting piston-rings. No. 1,291,700; Jan. 21; v. 258; p. 455.
- Acton, Michael J., Framingham, assignor to Lapointe Machine Tool Company, Hudson, Mass. Broaching-machine attachment for splitting piston-rings. No. 1,292,219; Jan. 21; v. 258; p. 585.
- Acton, Michael J., Framingham, assignor to Lapointe Machine Tool Company, Hudson, Mass. Broaching-machine attachment for broaching the teeth of large internal gears. No. 1,300,092; Apr. 8; v. 261; p. 362.
- Acushnet Process Company. (See Furness, Theodore F., assignor.)
- Acushnet Process Company. (See Young, Philip E., assignor.)
- Ad Photoscope Company. (See Burnett, John P., assignor.)
- Adair, Charles T., Tecumseh, N. Mex. Air-cooled refrigerator. No. 1,305,862; June 3; v. 263; p. 119.
- Adam, Frederick B., assignor to Frank Adam Electric Company, St. Louis, Mo. Knife-blade switch. No. 1,299,891; Apr. 8; v. 261; p. 318.
- Adam, Harry C., St. Louis, Mo. Electric ceiling-fixture. No. 1,291,701; Jan. 21; v. 258; p. 455.
- Adam, Harry C., St. Louis, assignor to the Reflectolyte Company, St. Louis, Mo. Concealed-terminal receptacle. No. 1,297,772; Mar. 18; v. 260; 499.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. No. 1,307,572; June 24; v. 263; p. 532.
- Adam Hilger, Limited. (See Twyman, Frank, assignor.)
- Adamec, Jacob H., assignor of one-third to J. S. Carr, Jr., Durham, N. C. Strip-severing device. No. 1,298,431; Mar. 25; v. 260; p. 664.
- Adams, Aaron M., and M. W. Landau, Philadelphia, Pa. Hatband. No. 1,307,172; June 17; v. 263; p. 426.
- Adams, Alfred W. (See James and Adams.)
- Adams, Alonzo S., Waltham, Mass. Fruit-picker. No. 1,309,712; July 15; v. 264; p. 380.
- Adams, Andrew, and S. S. Peck, Honolulu, Hawaii. Regulating vegetable carbons. No. 1,326,159; Dec. 30; v. 269; p. 711.
- Adams, Arthur H., Sparkill, assignor to Western Electric Company, Incorporated, New York, N. Y. Switch-operating mechanism. No. 1,296,604; Mar. 11; v. 260; p. 213.
- Adams, Arthur J., Heywood, near Westbury, England. Springing of vehicles. No. 1,318,947; Oct. 14; v. 267; p. 307.
- Adams, August H. (See Caldwell and Adams.)
- Adams-Bagnall Company, The. (See Mould, Edmund F., assignor.)
- Adams-Bagnall Electric Company, The. (See Cave, Henry, assignor.)
- Adams-Bagnall Electric Company. (See Horton, William M., assignor.)
- Adams-Bagnall Electric Company, The. (See Mezzeo, Salvatore, assignor.)
- Adams-Bagnall Electric Company. (See Thornton, George A., assignor.)
- Adams, Carl, East Rutherford, N. J. Elastic fabric. No. 1,313,037; Aug. 12; v. 265; p. 257.
- Adams, Charles F. (See Scarlett and Adams.)
- Adams, Charles H., assignor of one-fourth to E. E. Peterson, Denver, Colo. Fan attachment for automobiles. No. 1,315,754; Sept. 9; v. 266; p. 242.
- Adams, Charles L., London, England. Internal-combustion engine. No. 1,306,939; June 17; v. 263; p. 384.
- Adams, Charles W., Jr., Murray, Utah, assignor to American Smelting & Refining Co. Sintering ignition process. No. 1,299,892; Apr. 8; v. 261; p. 318.
- Adams, Edgar E., assignor to The Cleveland Hardware Company, Cleveland, Ohio. Bow-socket. No. 1,307,105; June 17; v. 263; p. 414.
- Adams, Edgar W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching apparatus. No. 1,309,231; July 8; v. 264; p. 254.
- Adams, Floyd W., Hudson Heights, N. J., assignor to The Barrett Company. Napping and saturating felt and product thereof. No. 1,311,862; July 29; v. 264; p. 841.
- Adams, Francis E. (See Green and Adams.)
- Adams, Frank H., Cleveland, Ohio. Repeating and stopping attachment for phonographs. No. 1,317,257; Sept. 30; v. 266; p. 622.
- Adams, Frank H., Cleveland, Ohio. Repeating and stopping attachment for phonographs. No. 1,317,258; Sept. 30; v. 266; p. 622.
- Adams, Frank H., Cleveland, Ohio. Repeating and stopping attachment for phonographs. No. 1,317,259; Sept. 30; v. 266; p. 623.
- Adams, Frederick T., Vancouver, British Columbia, Canada. Egg-timer. No. 1,324,871; Dec. 16; v. 269; p. 418.
- Adams, Harry A., assignor to Serviceable Inventions Corporation, New York, N. Y. Razor-stopping device. No. 1,301,801; Apr. 29; v. 261; p. 807.
- Adams, Harry A., assignor to Serviceable Inventions Corporation, New York, N. Y. Label-vending machine. No. 1,310,592; July 22; v. 264; p. 572.
- Adams, Harry W., Minneapolis, Minn. Traction-machine. No. 1,300,693; Apr. 8; v. 261; p. 362.
- Adams, Harry W., Minneapolis, Minn. Cooling system for gas-tractors. No. 1,303,003; May 6; v. 262; p. 100.
- Adams, Henry, Stamford, assignor to The Adams Mining Machinery Corporation, New London, Conn. Process and apparatus for reducing coal. No. 1,293,654; Feb. 11; v. 259; p. 189.
- Adams, Henry, Stamford, assignor to The Adams Mining Machinery Corporation, New London, Conn. Apparatus for reducing coal. No. 1,293,655; Feb. 11; v. 259; p. 189.
- Adams, Henry, Stamford, assignor to The Adams Mining Machinery Corporation, New London, Conn. Apparatus for reducing coal. No. 1,293,656; Feb. 11; v. 259; p. 189.
- Adams, Henry R., Wayside, Tex. Reproducing device for graphophones. No. 1,301,631; Apr. 22; v. 261; p. 742.
- Adams, Henry T., assignor to Henry T. Adams Mfg. Co., Chicago, Ill. Loose-leaf bookbinder. No. 1,313,240; Aug. 19; v. 265; p. 313.
- Adams, John, Youngstown, Ohio. Non-skid device. No. 1,320,667; Nov. 4; v. 268; p. 57.
- Adams, John, and B. Schaeffer, Hoboken, N. J. Combined stem, pipe, and cigar holder. No. 1,316,472; Sept. 16; v. 266; p. 391.
- Adams, John C., Superior, Wis. Automobile-heater. No. 1,315,195; Sept. 2; v. 266; p. 132.
- Adams, John R., et al. (See Watkins, Joseph W., assignor.)
- Adams, John T., Reynolds, Ga. Forage-blade. No. 1,323,237; Dec. 2; v. 269; p. 3.
- Adams, John W. (See Hanner and Adams.)
- Adams, Joseph, Northfleet, England. Production of molded or shaped material or articles by rolling. No. 1,297,773; Mar. 18; v. 260; p. 499.
- Adams, Joseph H., Brooklyn, N. Y., assignor to The Texas Company, Houston, Tex. Oil-converting apparatus. No. 1,320,354; Oct. 28; v. 267; p. 621.
- Adams, Joseph H., Brooklyn, N. Y., assignor to The Texas Company, Houston, Tex. Conversion of liquids, fluids, and oils. No. 1,320,726; Nov. 4; v. 268; p. 68.
- Adams, Joseph H., Flatbush, N. Y., assignor to The Texas Company, Houston, Tex. Apparatus for the conversion of liquids, fluids, and oils. No. 1,320,727; Nov. 4; v. 268; p. 69.
- Adams, Lillian C., Summerville, Ga. Combination stove lining and grate assembly. No. 1,314,845; Sept. 2; v. 266; p. 69.
- Adams, Lytle S., Venice, Calif. Hole-digger. No. 1,319,259; Oct. 21; v. 267; p. 392.
- Adams, Millie E., administratrix. (See Winter, Henry W.)
- Adams Mining Machinery Corporation, The. (See Adams, Henry, assignor.)
- Adams, Morton L., assignor to Adams Tractor Company, Seattle, Wash. Tractor attachment for automobiles. No. 1,293,657; Feb. 11; v. 259; p. 190.
- Adams, Morton L., assignor to Adams Tractor Company, Seattle, Wash. Tractor attachment for motor-vehicles. No. 1,309,053; July 8; v. 264; p. 223.
- Adams, Morton L., assignor to Adams Tractor Company, Seattle, Wash. Tractor attachment. No. 1,310,406; July 22; v. 264; p. 539.
- Adams, Orlando P., New Orleans, La. Valve. No. 1,302,752; May 6; v. 262; p. 51.
- Adams, Otis, assignor of one-half to F. Cooper, Rio, Ill. Gate operating and latch means. No. 1,299,281; Apr. 1; v. 261; p. 152.
- Adams, Perde, Newton, Ga. Aircraft. No. 1,308,155; July 1; v. 264; p. 27.
- Adams-Pond Company. (See Allbright, Edwin F., assignor.)
- Adams, Raleigh J., Los Angeles, Calif. Steam-boiler. No. 1,325,133; Dec. 16; v. 269; p. 467.
- Adams, Ralph R., Yonkers, N. Y. Paint. No. 1,317,469; Sept. 30; v. 266; p. 663.
- Adams, Samuel J., Montclair, N. J. Blotter and pen tray. No. 1,312,379; Aug. 5; v. 265; p. 98.
- Adams, Sherman R., Long Beach, Calif. Wave-motor. No. 1,318,637; Oct. 14; v. 267; p. 248.
- Adams, Stephen M., Seattle, Wash. Fruit and vegetable drier. No. 1,325,271; Dec. 16; v. 269; p. 493.
- Adams, Thomas B., Quincy, Ill. Coal-silo. No. 1,317,771; Oct. 7; v. 267; p. 21.
- Adams, Thomas C., and A. M. Roach, assignors to McClintock-Loomis Company, Minneapolis, Minn. Chime-clock. No. 1,322,216; Nov. 18; v. 268; p. 464.
- Adams Tractor Company. (See Adams, Morton L., assignor.)
- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 1,325,225; Dec. 16; v. 269; p. 484.



- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 1,325,226; Dec. 16; v. 269; p. 484.
- Adams & Westlake Company, The. (See Hamm, William S., assignor.)
- Adams & Westlake Company, The. (See Hamm and Stewart, assignors.)
- Adams & Westlake Company, The. (See Seidel and Wattman, assignors.)
- Adams, William A., assignor of one-half to W. T. Petty, New York, N. Y. Moving-picture toy. No. 1,315,898; Sept. 9; v. 266; p. 269.
- Adams-Williams Manufacturing Corporation. (See Bresin, Louis, assignor.)
- Adams-Williams Manufacturing Corporation. (See Schwab, Peter A., assignor.)
- Adamski, Michael, Detroit, Mich. Ground-gripping device for vehicle-wheels. No. 1,298,149; Mar. 25; v. 260; p. 604.
- Adamson, Charles E. (See Schyllander, Alfred T., assignor.)
- Adamson, Edward, Waterloo, Liverpool, England. Electrically-operated riveting, pressing, stamping, and the like machine. No. 1,290,861; Jan. 14; v. 258; p. 229.
- Adamson, Edwin J., St. Cloud, Minn. Radiator-lifting appliance. No. 1,302,461; Apr. 29; v. 261; p. 933.
- Adamson, Ernie, Atlanta, Ga. Acetylene-gas generator. No. 1,314,780; Sept. 2; v. 266; p. 57.
- Adamson, Frank M. (See Miller and Adamson.)
- Adamson, James P. (See Cochrane, Alfred W., assignor.)
- Adamson, William. (See Dufresne and Adamson.)
- Adder Machine Company, The. (See Kuentzler, Henry, assignor.)
- Adder Machine Company, The. (See Pentecost, Arthur, assignor.)
- Adder Machine Company, The. (See Reirdon, Joseph F., assignor.)
- Adderson, James G., R. H. James, and B. F. Cake, assignors to Denny-Renton Clay & Coal Company, Seattle, Wash. Machine for forming paving-brick. No. 1,290,862; Jan. 14; v. 258; p. 229.
- Addison, Simon L., assignor of sixty-two per cent to E. M. Mallette and sixteen per cent to W. Stern, Seattle, Wash. Vegetable-paring attachment. No. 1,314,111; Aug. 26; v. 265; p. 511.
- Addison, William D., Manning, Iowa. Chain guard for vehicle-wheels. No. 1,295,669; Feb. 25; v. 259; p. 716.
- Addressograph Company. (See Dolcater, Frederick C., assignor.)
- Addressograph Company. (See Duncan, Joseph S., assignor.)
- Addressograph Company. (See Owens, Charles, assignor.)
- Addressograph Company. (See Stickney, Charles A., assignor.)
- Adduci, John B., Boston, Mass. Ash-sifter. No. 1,300,234; Apr. 15; v. 261; p. 419.
- Adduci, John B., Boston, Mass. Antiskidding attachment. No. 1,325,389; Dec. 16; v. 269; p. 514.
- Adee, Arthur L., Vancouver, Wash., assignor to H. W. Arnold, R. C. Sugg, and F. Robinson. Device for attaching a child's nursery toilet-seat to the seat of an ordinary toilet. No. 1,296,901; Mar. 11; v. 260; p. 281.
- Adelhofer, Leopold, New York, N. Y. Automatic feeding attachment for printing-presses. No. 1,300,803; Apr. 15; v. 261; p. 540.
- Adeling, Fred, Picklin, Ill. Gate-hinge. No. 1,316,473; Sept. 16; v. 266; p. 391.
- Adell, James C., Cleveland, Ohio. Separating the oxides of iron and other metals occurring in compound ores. No. 1,318,431; Oct. 14; v. 267; p. 208.
- Adell, James C., Cleveland, Ohio. Preparing highly-oxidized manganese compounds. No. 1,318,432; Oct. 14; v. 267; p. 209.
- Adelman, Arthur, assignor to United States Ordnance Company, Washington, D. C. Detonating-fuse. No. 1,326,822; Dec. 30; v. 269; p. 836.
- Adelsperger, Dow L., assignor to The Bauer Brothers Company, Springfield, Ohio. Apparatus for treating cotton-seed. No. 1,326,888; Dec. 30; v. 269; p. 848.
- Aden, John G., Gothenburg, Nebr. Sash-holder. No. 1,309,677; July 15; v. 264; p. 374.
- Adix, Albert W., and G. W. Haglund, Boone, Iowa. Foldable crate or box. No. 1,315,175; Sept. 2; v. 266; p. 128.
- Adkins, Arthur, Leicester, England. Means for destroying enemy submarine craft. No. 1,309,391; July 8; v. 264; p. 283.
- Adkins, Frank, Wheeling, W. Va. Hose-nipple for air-hammers. No. 1,314,235; Aug. 26; v. 265; p. 535.
- Adkins, Paul V., Leavenworth, Kans. Road-surfacer. No. 1,325,601; Dec. 23; v. 269; p. 570.
- Adler, Bror A., Chicago, Ill., assignor to Adler Manufacturing Company, Wilmington, Del. Differential drive mechanism. No. 1,290,031; Jan. 7; v. 258; p. 4.
- Adler, Charles, Jr., Baltimore, Md. Electrically-operated vehicle-brake. No. 1,300,094; Apr. 8; v. 261; p. 363.
- Adler, Jack R., Elsinore, Cal. Necktie-presser. No. 1,296,031; Mar. 4; v. 260; p. 49.
- Adler Manufacturing Company. (See Adler, Bror A., assignor.)
- Adler, William W., Chicago, Ill. Card-rack. No. 1,315,899; Sept. 9; v. 266; p. 269.
- Adolph, Ernest C., Green Lane, Auckland, New Zealand. Bedstead-joint. No. 1,318,823; Oct. 14; v. 267; p. 283.
- Adreon, Robert E., St. Louis, Mo. Automobile-steering-wheel lock. No. 1,300,804; Apr. 15; v. 261; p. 540.
- Adriance Machine Works. (See Calleson, Amos, assignor.) (Reissue.)
- Adsit, Frank W. (See Chrisman and Adsit.)
- Adsit, Frank W., et al. (See Shields, Nelson, assignor.)
- Adsit, Frank W., Chicago, Ill. Telephone lockout-relay. No. 1,290,691; Jan. 7; v. 258; p. 164.
- Adsit, Frank W., Chicago, Ill. Intercommunicating telephone lockout system. No. 1,307,651; June 24; v. 263; p. 546.
- Adsit, Frank W., St. Paul, Minn. Photographic phonograph. No. 1,291,702; Jan. 21; v. 258; p. 455.
- Adsit, Frank W., St. Paul, Minn. Automatic dispenser. No. 1,296,032; Mar. 4; v. 260; p. 49.
- Adsit, Frank W., St. Paul, Minn. Machine-gun. No. 1,313,038; Aug. 12; v. 265; p. 257.
- Adsit, Lawrence R., Cherokee, Iowa. Bracket construction. No. 1,324,713; Dec. 9; v. 269; p. 327.
- Adsit, William H., assignor of one-half to D. W. Tomlinson, Jr., Batavia, N. Y. Change-speed-gear-operating means for motor-vehicles. No. 1,292,413; June 28; v. 258; p. 651.
- Adt, John B., assignor to John B. Adt Company, Baltimore, Md. Drier. No. 1,311,431; July 29; v. 264; p. 761.
- Advance Manufacturing Company, The. (See Leshner, Earl W., assignor.)
- Advance Manufacturing Company, The. (See Runyan, Clay M., assignor.)
- Advance Manufacturing Company, The. (See Saborsky, Arthur, assignor.)
- Advance-Rumely Company. (See Davis, Ralph E., assignor.)
- Advance-Rumely Company. (See Higgins, William H. C., Jr., assignor.)
- Ady, Joseph W., Colorado Springs, Colo. Road-clearer. No. 1,326,559; Dec. 30; v. 269; p. 787.
- Ady, Joseph W., Colorado Springs, Colo. Road-clearer. No. 1,326,560; Dec. 30; v. 269; p. 787.
- Ady, Joseph W., Colorado Springs, Colo. Road-clearer. No. 1,326,561; Dec. 30; v. 269; p. 787.
- Aeolian Company, The. (See Bryce, James W., assignor.)
- Aeolian Company, The. (See Dickinson, Joseph H., assignor.)
- Aeolian Company, The. (See Head, Robert, assignor.)
- Aeolin Company, The. (See Kelly, George B., assignor.)
- Aeolian Company, The. (See Prettie, Richard J., assignor.)
- Aeolian Company, The. (See Proudft, Edwin B., assignor.)
- Aeolian Company, The. (See Tremaine, Henry B., assignor.)
- Aeolian Company, The. (See Votey, Edwin S., assignor.)
- Aeolian Company, The. (See White, Harold E., assignor.)
- Aeolian Company, The. (See Young, Francis L., assignor.)
- Aerated Water Machinery Company. (See Sheehan, John, assignor.)
- Aetna Explosives Company. (See Wollenberg and Bigelow, assignors.)
- Aeveanes, Garcia H. (See Fee and Aveanes.)
- Afable, Agapito, Manila, Philippine Islands. Tire-protector. No. 1,305,957; June 3; v. 263; p. 138.
- Agee, Howard L., and S. A. Fort Worth, Tex. Screen-hanger. No. 1,324,768; Dec. 9; v. 269; p. 337.
- Agee, Sidney A. (See Agee, Howard L. and S. A.)
- Agier, Edouard H. G., New York, N. Y. Incinerator. No. 1,291,350; Jan. 14; v. 258; p. 342.
- Agier, H. G. Edouard, New York, N. Y. Partition or wall construction. No. 1,325,824; Dec. 23; v. 269; p. 612.
- Agnew, Clair M., Milwaukee, Wis. Electric-welding machine and process. No. 1,315,939; Sept. 16; v. 266; p. 291.
- Agnew, Samuel J., San Diego, Calif. Tag-holder. No. 1,320,957; Nov. 4; v. 268; p. 113.
- Agranat, Simon, Chelsea, Mass. Time-stamp. No. 1,320,355; Oct. 28; v. 267; p. 621.
- Ahearn, John J., Palmer, N. Y. Automobile railway-track. No. 1,293,658; Feb. 11; v. 259; p. 190.
- Ahearn, John J., assignor of one-third to D. O'Brien, Palmer, N. Y. Portable water-heater. No. 1,292,414; Jan. 28; v. 258; p. 651.
- Ahearn, Michael F., Chicago, Ill. Valve. No. 1,314,726; Sept. 2; v. 266; p. 48.
- Ahearn, Thomas, Ottawa, Ontario, Canada. Driving mechanism for disk talking-machines. No. 1,320,519; Nov. 4; v. 268; p. 30.
- Ahern, James, Richmond, Melbourne, Victoria, Australia. Signal-recording apparatus. No. 1,317,672; Oct. 7; v. 267; p. 3.
- Ahlburg, Frank, San Francisco, Calif., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Temperature-control system. (Reissue.) No. 14,685; July 15; v. 264; p. 507.
- Ahlen, William, and K. H. Cederlund, Duquesne, Pa. Hot-bed and run-out table mechanism. No. 1,310,231; July 15; v. 264; p. 475.

## Alphabetical list of patentees—Continued.

- Ahlgren, Axel G., Bridgeport, Conn. Band-brake. No. 1,297,531; Mar. 18; v. 260; p. 446.
- Ahlkren, John M., Indianapolis, Ind. Forming storage-battery containers. No. 1,306,679; June 17; v. 263; p. 337.
- Ahlm, Charles E. F., Cleveland, assignor to W. A. Ne-racher, Warren, and A. Fritzsche, Cleveland, Ohio. De-mountable rim. No. 1,301,352; Apr. 22; v. 261; p. 691.
- Ahlskog Bruno E. (See Leighty and Ahlskog.)
- Ahlsweide, Charles, Manitowoc, Wis. Traction device for automobiles. No. 1,317,673; Oct. 7; v. 267; p. 3.
- Ahlum, Charles C., Chester, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing anilin hydrochlorid. No. 1,303,624; May 13; v. 262; p. 242.
- Ahmén, Thure, Flinspong, assignor, by mesne assignments, to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Radial turbine of the double rotary type. No. 1,299,893; Apr. 8; v. 261; p. 318.
- Ahnemann, George W., Wells, Minn. Gearing. No. 1,319,033; Oct. 21; v. 267; p. 349.
- Ahond, Felix, Paris, France. Tool of circular shape with cutting-teeth, such as screw-taps, screw-plates, boring-tools, and milling-cutters. No. 1,309,232; July 8; v. 264; p. 254.
- Aichele, Albert, Baden, Switzerland. Change-speed gear-ing. No. 1,299,093; Apr. 1; v. 261; p. 110.
- Aichele, Albert, Baden, Switzerland. Change-speed gear-ing. No. 1,299,094; Apr. 1; v. 261; p. 110.
- Aichele, Albert, Baden, Switzerland. Differential gear for motor-cars. No. 1,301,800; Apr. 29; v. 261; p. 807.
- Aichele, Albert, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Insulating-sleeve. No. 1,296,731; Mar. 11; v. 260; p. 242.
- Aichele, Albert, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Maximum-time relay. No. 1,301,991; Apr. 29; v. 261; p. 843.
- Alken, Ebenezer N., Avalon, Pa., assignor to The Mc-Caskey Register Company, Alliance, Ohio. Filling ap-pliance. No. 1,298,150; Mar. 25; v. 260; p. 604.
- Alken, Edward L., Springfield, Mass. Adjustable steer-ing-wheel. No. 1,298,151; Mar. 25; v. 260; p. 604.
- Alken, James R. (See Taylor, Alfred G., assignor.)
- Ainsworth, Chester D., Wollaston, assignor to S. B. Con-dit, Jr., Boston, Mass. Trip-coil-adjusting means. No. 1,290,863; Jan. 14; v. 258; p. 229.
- Ainsworth, Chester D., Wollaston, assignor to S. B. Con-dit, Jr., Boston, Mass. Cover-lock. No. 1,321,582; Nov. 11; v. 268; p. 295.
- Ainsworth, Ray W. D., Bigtrails, Wyo. Sled-brake. No. 1,296,033; Mar. 4; v. 260; p. 50.
- Ainsworth, William A., Grand Rapids, Mich. Dyeing yarn and the like. No. 1,299,811; Apr. 8; v. 261; p. 301.
- Ainsworth, William A., assignor of one-half to C. N. Mather, Grand Rapids, Mich. Dyeing composition. No. 1,310,518; July 22; v. 264; p. 558.
- Air Reduction Company. (See Jacobs, Charles B., as-signor.)
- Air Reduction Company. (See Kaufman, Alfonse, as-signor.)
- Air Reduction Company. (See Metzger, Floyd J., as-signor.)
- Air Reduction Company. (See Roberts, Montague H., assignor.)
- Air Reduction Company. (See Roberts and Van Nuys, as-signors.)
- Air Reduction Company. (See Russell, Richard F., as-signor.)
- Air Reduction Company. (See Von Recklinghausen, Max, assignor.)
- Air Reduction Company. (See Walker, George L., as-signor.)
- Air Reduction Company. (See Zouck, George H., as-signor.)
- Aircraft Fireproofing Corporation. (See Bradley, Parker R., assignor.)
- Aircraft Manufacturing Company, The. (See De Havil-land and Chapman, assignors.)
- Aircraft Manufacturing Company, The. (See Hucks, Bentfield C., assignor.)
- Aird, Clarence W., Brantford, Ontario, Canada. Corner-bracket. No. 1,320,820; Nov. 4; v. 268; p. 87.
- Aird, Clarence W., Brantford, Ontario, Canada. Oven for baking and industrial purposes. No. 1,320,821; Nov. 4; v. 268; p. 87.
- Airsafe Inner Tire Company. (See Grube, John H., as-signor.)
- Aitchison, Peter, New Rochelle, assignor to American Bank Note Company, New York, N. Y. Method or art of and apparatus for conditioning printed paper. No. 1,306,456; June 10; v. 263; p. 262.
- Aitken, Leonard, Lawrence, Mass. Weft-replenishing loom. No. 1,307,994; June 24; v. 263; p. 610.
- Aitken, William, assignor to The Relay Automatic Tele-phone Company, Limited, London, England. System of multiplying trunk-wires. No. 1,311,432; July 29; v. 264; p. 761.
- Ajax Electric Company. (See Banks, William C., as-signor.)
- Ajax Manufacturing Company, The. (See Blakeslee, John R., assignor.)
- Ajax Metal Company, The. (See Northruk, Edwin F., as-signor.)
- Ajax Metal Company, The. (See Wyatt, James R., as-signor.)
- Akahoshi, Zenkichi. (See Araki, Susumu, assignor.)
- Akans, Walter C., assignor of one-half to J. A. Ryan, Birmingham, Ala. Fire and dust proof cover for rec-ord-books. No. 1,293,659; Feb. 11; v. 259; p. 190.
- Akashi, Kazue, Tokyo, Japan. Solid ink. No. 1,325,971; Dec. 23; v. 269; p. 639.
- Akeley Camera Inc. (See Akeley, Carl E., assignor.)
- Akeley, Carl E., New York, N. Y. Camera lens-holder. No. 1,300,806; Apr. 15; v. 261; p. 540.
- Akeley, Carl E., assignor to Akeley Camera, Inc., New York, N. Y. Film-guide for motion-picture cameras. No. 1,297,532; Mar. 18; v. 260; p. 446.
- Akeley, Carl E., assignor to Akeley Camera, Inc., New York, N. Y. Support for motion-picture cameras and the like. No. 1,300,805; Apr. 15; v. 261; p. 540.
- Akeley, Carl E., assignor to Akeley Camera Inc., New York, N. Y. Finder for moving-picture cameras. No. 1,310,776; July 22; v. 264; p. 606.
- Akeley, Carl E., assignor to Akeley Camera Inc., New York, N. Y. Motion-picture trench-camera. No. 1,313,243; Aug. 19; v. 265; p. 313.
- Akeley, Carl E., assignor to Akeley Camera Inc., New York, N. Y. Attachment for motion-picture cameras. No. 1,314,493; Sept. 2; v. 266; p. 3.
- Akeley, Carl E., assignor to Akeley Camera Inc., New York, N. Y. Attachment for motion-picture cameras. No. 1,314,494; Sept. 2; v. 266; p. 3.
- Akeley, Carl E., assignor to Akeley Camera Inc., New York, N. Y. Film-magazine for motion-picture cam-eras. No. 1,315,650; Sept. 9; v. 266; p. 223.
- Akeley, Carl E., assignor to Akeley Camera Inc., New York, N. Y. Toggle for camera-tripods. No. 1,324,781; Dec. 16; v. 269; p. 402.
- Akerley, Fred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nailing-die. No. 1,322,509; Nov. 25; v. 268; p. 571.
- Akimoff, Nicholas W., assignor, by mesne assignments, to Dynamic Balancing Machine Company, Philadelphia, Pa. Method of and apparatus for obtaining dynamic balance. No. 1,296,605; Mar. 11; v. 260; p. 213.
- Akimoff, Nicholas W., assignor, by mesne assignments, to Dynamic Balancing Machine Company, Philadelphia, Pa. Dynamic balancing-machine. No. 1,296,606; Mar. 11; v. 260; p. 213.
- Akimoff, Nicholas W., assignor, by mesne assignments, to Dynamic Balancing Machine Company, Philadelphia, Pa. Dynamic balancing-machine. No. 1,296,607; Mar. 11; v. 260; p. 213.
- Akimoff, Nicholas W., assignor to Dynamic Balancing Ma-chine Company, Philadelphia, Pa. Dynamic balancing-machine. No. 1,296,608; Mar. 11; v. 260; p. 214.
- Akimoff, Nicholas W., assignor to Dynamic Balancing Ma-chine Company, Philadelphia, Pa. Static balancing-ma-chine. No. 1,296,609; Mar. 11; v. 260; p. 214.
- Akimoff, Nicholas W., assignor to Dynamic Balancing Ma-chine Company, Philadelphia, Pa. Balancing-machine. No. 1,296,610; Mar. 11; v. 260; p. 214.
- Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Balancing appliance. No. 1,296,732; Mar. 11; v. 260; p. 242.
- Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Balancing appliance. No. 1,313,039; Aug. 12; v. 265; p. 257.
- Akin, Allison, East Orange, N. J., assignor, by mesne as-signments, to Western Electric Company, Incorporated. Protective device for electrical apparatus. No. 1,309,233; July 8; v. 264; p. 254.
- Akin, James M., San Luis Obispo, Calif. Gage. No. 1,309,930; July 15; v. 264; p. 421.
- Akin, John A., North Little Rock, Ark. Garment-cuff. No. 1,296,733; Mar. 11; v. 260; p. 242.
- Akron Rubber Mold & Machine Company, The. (See Harris, Stanley W., assignor.)
- Aktiebolaget Arca Regulatorer. (See Carlstedt, Ragnar, assignor.)
- Aktiebolaget Baltic. (See Johansson, Gustaf W., as-signor.)
- Aktiebolaget Fucus. (See Bredenberg and Cron, assign-ors.)
- Aktiebolaget Hasset. (See Petrelius, Oscar R., assignor.)
- Aktiebolaget Ingeniörsfirma Fritz Egnell. (See Rodhe, Olof, assignor.)
- Aktiebolaget C. E. Johansson. (See Johansson, Carl E., assignor.)
- Aktiebolaget Karlstads Mekaniska Verkstad. (See Wag-ner, Rudolf E., assignor.)
- Aktiebolaget Keros. (See Dalén, Gustaf, assignor.)
- Aktiebolaget Lidköpings Mekaniska Verkstad. (See Söder-lund, Carl G., assignor.)
- Aktiebolaget Ljungströms Angturbin. (See Ahmén, Thure, assignor.)
- Aktiebolaget-Ljungströms Angturbin. (See Ljungström, Frederick, assignor.)
- Aktiebolaget Ljungströms Angturbin. (See Wiberg, Os-kar A., assignor.)



*Alphabetical list of patentees—Continued.*

Aktiebolaget Ljungstroms Augturbin. (See Wiberg and Bäckström, assignors.)  
 Aktiebolaget Malmus Holmquist. (See Askman, Johan E., assignor.)  
 Aktiebolaget Nitrogenium. (See Carlson and Boman, assignors.)  
 Aktiebolaget Precisionsverktyg. (See Rundqvist, Andreas V., assignor.)  
 Aktiebolaget Salenius Verkstäder. (See Eskilson, Sven A., assignor.)  
 Aktiebolaget Svenska Kullagerfabriken. (See Fjellman, Bengt W., assignor.)  
 Aktiebolaget Svenska Kullagerfabriken. (See Hultgren and Rydbeck, assignors.)  
 Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, Axel G. E., assignor.)  
 Aktiebolaget Svenska Kullagerfabriken. (See Lindhé Roland W., assignor.)  
 Aktiebolaget Svenska Kullagerfabriken. (See Nyberg, Carl S., assignor.)  
 Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)  
 Aktiebolaget Svenska Kullagerfabriken. (See Wingquist, Sven G., assignor.)  
 Aktiebolaget Vaporrackumulator. (See Ruths, Johannes K., assignor.)  
 Aktiebolaget Zeus. (See Westman, Carl J., assignor.)  
 Aktiengesellschaft Brown, Boveri & Cie. (See Aichele, Albert, assignor.)  
 Aktiengesellschaft Brown, Boveri & Cie. (See Guttinger, Oscar, assignor.)  
 Aktiengesellschaft Brown, Boveri & Cie. (See Jonas, Julius, assignor.)  
 Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co. (See Graemiger, Benjamin, assignor.)  
 Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co. (See Keller, Huldreich, assignor.)  
 Aktieselskab Roulunds Fabrikker. (See Petersen-Hvild, Lauritz, assignor.)  
 Aktieselskabet G. Hartmann. (See Westad and Hagg, assignors.)  
 Aladalo, Abraham E., Lead, S. D. First-aid box. No. 1,297,051; Mar. 11; v. 260; p. 315.  
 Aladdin Lamp Syndicate Limited (in liquidation). (See Ott von Batorkez and Verinkhaz, Adolph, assignor.)  
 Alarie, Frank C. (See Laughran and Alarie.)  
 Alary, Alphonse, St. Casimir, Quebec, Canada. Door-hinge. No. 1,318,824; Oct. 14; v. 267; p. 283.  
 Albach, Frank, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Basket-ball goal. No. 1,308,831; July 8; v. 264; p. 179.  
 Albach, Frank, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Rock-a-bye swing. No. 1,314,495; Sept. 2; v. 266; p. 3.  
 Albanese, Raimondo. (See Dalboni, Gasperetti, and Albanese.)  
 Albaum, Louis, Everett, Mass. Piston-ring compressor. No. 1,310,232; July 15; v. 264; p. 475.  
 Alberger Gas Engine Company. (See Bogart, John A., assignor.)  
 Albers, Henry, Portland, Oreg. Scouring-machine. No. 1,303,143; May 6; v. 262; p. 127.  
 Albers, O. J. (See Hess and Scott, assignors.)  
 Albershardt, August H. Martinsville, Ind. Emergency vehicle-wheel. No. 1,324,776; Dec. 16; v. 269; p. 401.  
 Albert, Alfonso E. (See Meighan, Edward S., assignor.)  
 Albert, Clifford E., Cincinnati, assignor to The U. S. Playing Card Company, Norwood, Ohio. Paper chest-protector. No. 1,311,845; July 29; v. 264; p. 838.  
 Albert, Heinrich. (See Januchowsky and Albert.)  
 Albert & J. M. Anderson Manufacturing Company. (See Andersen, Johan M., assignor.)  
 Albert and J. M. Anderson Manufacturing Company. (See Curtis, Kenneth L., assignor.)  
 Albert Pick & Company. (See Pick, Hugo, assignor.)  
 Albert Sechrist Manufacturing Company, The. (See Ehlert, Robert C., assignor.)  
 Albert Sechrist Manufacturing Company, The. (See Sechrist, Albert, assignor.)  
 Albert, Sydney, Nashville, Tenn. Collar. No. 1,321,875; Nov. 18; v. 268; p. 401.  
 Albert, W. H., North Caldwell, N. J. Combined advertising medium, cash-voucher, and ticket. No. 1,317,536; Sept. 30; v. 266; p. 676.  
 Alberter, Anthony E. (See Coleman, Walter R., assignor.)  
 Alberti, Emilio. (See Binder and Alberti.)  
 Alberti, Emilio, New York, assignor to International Cork Company, Brooklyn, N. Y. Ejecting mechanism for cork-blocking machines. No. 1,291,703; Jan. 21; v. 258; p. 456.  
 Albertson & Company. (See Albertson, Frans O., assignor.)  
 Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-refacing tool. No. 1,301,891; Apr. 29; v. 261; p. 824.  
 Albietz, Harry G., St. Louis, Mo. Trolley-replacer. No. 1,295,095; Feb. 25; v. 259; p. 583.  
 Albiz, William O., Adrian, Mich. Paper-bag-dispensing device. No. 1,293,291; Feb. 4; v. 259; p. 75.  
 Albiz, William O., Adrian, Mich. Combined blacking container and dauber. No. 1,303,531; May 13; v. 262; p. 225.

Albin, Jeremiah W., Babylon, N. Y. Nut-lock. No. 1,323,806; Dec. 2; v. 269; p. 109.  
 Albin, Joseph A., Paris, France. Plow or apparatus for breaking soil between the stems of vines and other similar plants. No. 1,316,667; Sept. 23; v. 266; p. 477.  
 Albiñá, José A., Saladillo, Argentina. Air-motor. No. 1,302,889; May 6; v. 262; p. 78.  
 Albrecht, Albert W., St. Louis, Mo. Manufacturing piston-rings. No. 1,315,451; Sept. 9; v. 266; p. 189.  
 Albrecht, Charles R., New York, N. Y., and A. Goedecker, Hackensack, N. J. Carrier for phonograph-records. No. 1,320,958; Nov. 4; v. 268; p. 113.  
 Albrecht, Harry G., Brooklyn, N. Y. Medicine-cabinet. No. 1,307,949; June 24; v. 263; p. 601.  
 Albrecht, John H., Baltimore, Md. Support for wind-shields. No. 1,312,508; Aug. 12; v. 265; p. 153.  
 Albrecht, John H., Madison, assignor to The T. L. Smith Company, Milwaukee, Wis. Excavator. No. 1,309,054; July 8; v. 264; p. 223.  
 Albrecht, Oscar A., Grand Rapids, Mich., assignor to O. A. Albrecht Company, Omaha, Nebr. Shoe-lace package. No. 1,319,681; Oct. 28; v. 267; p. 495.  
 Albre, George N., Swampscott, Mass. Fitting for air-planes and the like. No. 1,315,694; Sept. 9; v. 266; p. 231.  
 Albre, George N., Swampscott, Mass. Fitting for air-planes and the like. No. 1,315,695; Sept. 9; v. 266; p. 231.  
 Albright, Andrew, Jr. (See Barry, Thomas F., assignor.)  
 Albright, Andrew, Jr. (See Schuh, Charles F., assignor.)  
 Albright, Floyd V., Terra Alta, W. Va. Grain-measurer for threshing-machine elevators. No. 1,325,602; Dec. 23; v. 269; p. 571.  
 Albright, George W., Kansas City, Mo. Automobile signaling device. No. 1,301,212; Apr. 22; v. 261; p. 663.  
 Albritton, James, Rockport, Tex. Wagon-brace. No. 1,322,992; Nov. 25; v. 268; p. 662.  
 Alchevsky, Naoum, Acton Hill, London, England. Land-digging or earth-excavating means or device. No. 1,310,728; July 22; v. 264; p. 597.  
 Alcorn, Harvey S., Bridgeport, Okla. Rail-joint. No. 1,320,305; Oct. 28; v. 267; p. 612.  
 Alden, Milton, assignor to Dental Electric Company, Springfield, Mass. Illuminating appliance. No. 1,311,790; July 29; v. 264; p. 828.  
 Aldendorff, Fritz, Wilmersdorf, Berlin, Germany. Electromechanical switching system for interconnecting telephone-lines. No. 1,319,031; Oct. 14; v. 267; p. 323.  
 Aldendorff, Fritz, Wilmersdorf, Berlin, Germany. Interconnecting lines by electromechanically-controlled switches. No. 1,321,795; Nov. 11; v. 268; p. 335.  
 Alderman, Leighton R., and A. G. Smith, Pasadena, Calif. Ant-trap. No. 1,314,112; Aug. 26; v. 265; p. 511.  
 Alderson, Charles, Ouray, Colo. Pistol-holster. No. 1,295,831; Mar. 4; v. 260; p. 3.  
 Aldis, Arthur J., assignor to C. A. Parsons, Wallsend, England. Turbine-blade attachment. No. 1,303,004; May 6; v. 262; p. 100.  
 Aldis, Hugh L., Birmingham, England. Telescopic sighting device. No. 1,317,749; Oct. 7; v. 267; p. 17.  
 Aldrich, Carl G. (See Swift, Charles S., assignor.)  
 Aldrich, Charles, West Paris, Me. Folding sled. No. 1,300,095; Apr. 8; v. 261; p. 363.  
 Aldrich, Charles H., and J. K. Bryan, Baltimore, Md., assignors to Electrolytic Zinc Company, Inc., New York, N. Y. Electrolytic refining of metallic zinc-bearing materials. No. 1,299,414; Apr. 8; v. 261; p. 209.  
 Aldrich, Clifford K., Sacramento, Cal. Automobile-bed. No. 1,291,704; Jan. 21; v. 258; p. 456.  
 Aldrich, Frank, Highland Park, Mich. Operating mechanism for signaling apparatus. No. 1,298,271; Mar. 25; v. 260; p. 631.  
 Aldrich Pump Company. (See Aldrich, Roscoe H., assignor.)  
 Aldrich, Roscoe H., assignor to Aldrich Pump Company, Allentown, Pa. Safety device for accumulators. No. 1,320,306; Oct. 28; v. 267; p. 612.  
 Aldridge, Arthur, and H. Terhune, assignors to Chambersburg Engineering Company, Chambersburg, Pa. Electromagnetically-controlled board drop-hammer. No. 1,311,942; Aug. 5; v. 265; p. 17.  
 Aleksandrowicz, Michal, New Brighton, Pa. Projectile device. No. 1,298,851; Apr. 1; v. 261; p. 54.  
 Alemite Die-Casting & Mfg. Co. (See Gullborg, John S., assignor.)  
 Alena, Joseph, Perth Amboy, N. J. Wheelbarrow toy. No. 1,304,141; May 20; v. 262; p. 374.  
 Alert Tool Company. (See Normoyle, Daniel J., assignor.)  
 Alexa, Andrew, Amasa, Mich. Ax. No. 1,322,669; Nov. 25; v. 268; p. 601.  
 Alexa, Victor, Chicago, Ill. Universal drafting-machine. No. 1,311,867; Aug. 5; v. 265; p. 3.  
 Alexander, Albert N., Bergenfield, N. J. Spark-plug. No. 1,313,040; Aug. 12; v. 265; p. 258.  
 Alexander, Alexander M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Transmission device. No. 1,294,594; Feb. 18; v. 259; p. 444.



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- Alexander, Alexander M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving-knife. No. 1,305,863; June 3; v. 263; p. 120.
- Alexander, Alexander M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,318,343; Oct. 14; v. 267; p. 191.
- Alexander, David, Chicago, Ill. Shield. No. 1,323,433; Dec. 2; v. 269; p. 39.
- Alexander, Francis H., Newcastle-upon-Tyne, England. Clutch-coupling for transmission of power by shafting. No. 1,322,172; Nov. 18; v. 268; p. 455.
- Alexander, George D., New York, N. Y., assignor of one-half to C. R. Saunders, Cleveland, Ohio. Power-wrench. No. 1,322,391; Nov. 18; v. 268; p. 498.
- Alexander, George E., New York, N. Y. Barred receptacle. No. 1,317,674; Oct. 7; v. 267; p. 3.
- Alexander, George H. (See Thompson, Jack A., assignor.)
- Alexander, Henry W., Las Animas, Col. Recording device. No. 1,291,351; Jan. 14; v. 258; p. 342.
- Alexander, James G., assignor to Alexander Mfg. Co., Inc., Ames, Iowa. Garden-cultivator. No. 1,309,831; July 15; v. 264; p. 402.
- Alexander, Jerome, New York, N. Y. Adhesive and the like. No. 1,300,096; Apr. 8; v. 261; p. 363.
- Alexander, Jerome, New York, N. Y. Adhesive and making same. No. 1,300,097; Apr. 8; v. 261; p. 363.
- Alexander Mfg. Co. (See Alexander, James G., assignor.)
- Alexander, Robert C., Shreveport, La. Ironing-board. No. 1,318,195; Oct. 7; v. 267; p. 102.
- Alexander, Schuyler H. (See Williamson and Alexander.)
- Alexander, Solomon, assignor to A. A. Crossman, Long Beach, Calif. Tooth-brush. No. 1,318,522; Oct. 14; v. 267; p. 226.
- Alexander, Theodore, Providence, R. I. Tenter-clip for cloth-stretching machines. No. 1,326,160; Dec. 30; v. 269; p. 711.
- Alexander, Thomas J., Seattle, Wash. Portable package-elevator. No. 1,298,852; Apr. 1; v. 261; p. 54.
- Alexander, Warren D., Los Angeles, Cal. Briquetting-machine. No. 1,291,705; Jan. 21; v. 258; p. 456.
- Alexander, William C. (See Ferguson and Alexander.)
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Series-multiple control. No. 1,300,542; Apr. 15; v. 261; p. 485.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of phase modification. No. 1,300,543; Apr. 15; v. 261; p. 485.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of phase modification. No. 1,300,544; Apr. 15; v. 261; p. 485.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Starting phase-converters. No. 1,300,545; Apr. 15; v. 261; p. 486.
- Alexanderson, Ernest F. W., Schenectady, N. Y., and D. C. Prince, Springfield, Ill., assignors to General Electric Company. Speed control of induction-motors. No. 1,301,632; Apr. 22; v. 261; p. 742.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electrical system of power transmission. No. 1,304,239; May 20; v. 262; p. 393.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric system of ship propulsion. No. 1,304,240; May 20; v. 262; p. 393.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Wireless-telephone system. No. 1,313,041; Aug. 12; v. 265; p. 258.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. No. 1,313,042; Aug. 12; v. 265; p. 258.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of frequency transformation. No. 1,316,995; Sept. 23; v. 266; p. 537.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Bearing. No. 1,315,069; Sept. 2; v. 266; p. 109.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radiosignaling system. No. 1,320,959; Nov. 4; v. 268; p. 113.
- Alexandre, Albert, Fresno, Cal. Stem winding and setting means for watches. No. 1,290,032; Jan. 7; v. 258; p. 5.
- Alexandre, Armand H., Levallois-Perret, assignor to Societe E. H. Moll & Cie., Paris, France. Soldering aluminum. No. 1,301,633; Apr. 22; v. 261; p. 742.
- Alexandre, Eugene J., West Haven, Conn. Toilet-powder package. No. 1,309,713; July 15; v. 264; p. 380.
- Alexis, George D. (See Lovejoy and Alexis.)
- Alfandri, Albert G., assignor to C. Kenyon Company, Kings county, N. Y. Life-saving suit. No. 1,303,144; May 6; v. 262; p. 127.
- Alfano, Giuseppe, New York, N. Y. Elevator-door and operating mechanism therefor. No. 1,321,697; Nov. 11; v. 268; p. 316.
- Alfano, Giuseppe, New York, N. Y. Automatic device for controlling elevator-doors. No. 1,321,698; Nov. 11; v. 268; p. 316.
- Alford, William J., Birmingham, Ala. Pouring-head and skim-gate for castings. No. 1,324,021; Dec. 9; v. 269; p. 195.
- Alfred Decker & Cohn. (See Peine, Adolphus G., assignor.)
- Alfred O. Bleich Company. (See Ferguson and Larson, assignors.)
- Alfreds, Torris H., assignor to The P & M Company, Chicago, Ill. Anticreeping device for railway-rails. (Re-issue.) No. 14,632; Apr. 15; v. 261; p. 602.
- Alfreds, Torris H., Chicago, Ill., assignor to A. G. Welch, trustee. Antifriction side bearing. No. 1,306,875; June 17; v. 263; p. 372.
- Alfreds, Torris H., assignor to F. W. Wolf, Chicago, Ill. Compressor. No. 1,322,277; Nov. 18; v. 268; p. 476.
- Alfsen, Adolf A., Aadalen, near Heen, assignor to A/S. Myrens Verksted, Christiania, Norway. Barking-drum. No. 1,320,437; Nov. 4; v. 268; p. 15.
- Alfsen, Harald, Porsgrund, Norway, assignor to J. M. Larsen, Chicago, Ill. Casting of reinforced-concrete vessels. No. 1,296,152; Mar. 4; v. 260; p. 78.
- Alfsen, Harald, Porsgrund, Norway, assignor to J. M. Larsen, Chicago, Ill. Apparatus for casting reinforced-concrete vessels. No. 1,301,892; Apr. 29; v. 261; p. 824.
- Alfsen, Harald, Porsgrund, Norway, assignor to J. M. Larsen, Chicago, Ill. Rudderpost of steel-concrete vessels. No. 1,316,345; Sept. 16; v. 266; p. 367.
- Alien Property Custodian. (See Graul, Hanschke, and Webel, assignors.)
- Alien Property Custodian. (See Güngerich, Paul, assignor.)
- Alien Property Custodian. (See Mittasch, Alwin, assignor.)
- Alig, Leo J., Springfield, Ohio. Fencepost. No. 1,323,144; Nov. 25; v. 268; p. 690.
- Allan, Alexander A. (See Brayton and Allan.)
- Allan, Allen C., Chicago, Ill. Wrench. No. 1,306,794; June 17; v. 263; p. 357.
- Allan, Allen C., assignor of one-half to W. A. Dittenbaugh, Chicago, Ill. Automobile-steering-wheel lock. No. 1,298,853; Apr. 1; v. 261; p. 55.
- Allan, Charles F. F., Sydney, New South Wales, Australia. Protective covering for pneumatic tires. No. 1,324,368; Dec. 9; v. 269; p. 261.
- Allan, Charles F. F., Sydney, Australia. Pneumatic-tire protector. No. 1,324,369; Dec. 9; v. 269; p. 261.
- Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,290,033; Jan. 7; v. 258; p. 5.
- Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,297,052; Mar. 11; v. 260; p. 315.
- Allard, Samuel, Boston, Mass. Shaving set. No. 1,298,633; Apr. 1; v. 261; p. 3.
- Allard, George G., St. Paul, Minn. Surgical instrument. No. 1,308,728; July 1; v. 264; p. 132.
- Allatt, Thomas, New York, assignor to International Cork Company, Brooklyn, N. Y. Disk-sorting machine. No. 1,323,145; Nov. 25; v. 268; p. 690.
- Albright, Edwin F., Atlantic, assignor to Adams-Pond Company, Boston, Mass. Concrete construction. No. 1,307,031; June 17; v. 263; p. 401.
- Albright-Nell Company, The. (See Jordan, Robert E., assignor.)
- Albright-Nell Company, The. (See Kohlhepp, John W., assignor.)
- Albright-Nell Company. (See Ozouf, Arthur E., assignor.)
- Albright-Nell Company, The. (See Ridgway, Robert W., assignor.)
- Albright-Nell Company, The. (See Watson and Ozouf, assignors.)
- Albright, William B., Chicago, Ill. Lard-cracklings process and product. No. 1,317,675; Oct. 7; v. 267; p. 3.
- Alcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting device. No. 1,323,238; Dec. 2; v. 269; p. 3.
- Alderdice, Norman, Lorain, Ohio. Extension-brim for ladies. No. 1,321,583; Nov. 11; v. 268; p. 295.
- Aldredge, Francis B., Des Moines, Iowa. Steering-gear. No. 1,296,251; Mar. 4; v. 260; p. 99.
- Aldredge, Francis B., Des Moines, Iowa. Universal compound worm steering-gear. No. 1,299,532; Apr. 8; v. 261; p. 236.
- Allee, William L., Topeka, Kans. Toy gun. No. 1,310,317; July 15; v. 264; p. 490.
- Allen, Abbott, Dunellen, N. J., assignor to E. H. Mumford Company, Elizabeth, N. J. Counterbalance device for molding-machines. No. 1,299,412; Apr. 8; v. 261; p. 209.
- Allen, Albert E. (See Dahl and Allen.)
- Allen, Alton A., Fall River, Mass. Surf-boat. No. 1,323,732; Dec. 2; v. 269; p. 95.
- Allen, Arthur E., East Orange, N. J., assignor to Automatic Sprinkler Company of America, New York, N. Y. Fire-alarm apparatus. No. 1,303,005; May 6; v. 262; p. 100.
- Allen, Arthur S., Tarrytown, N. Y., assignor to Munsell Color Company. Color-chart. No. 1,322,473; Nov. 18; v. 268; p. 513.
- Allen, August N., Green Bay, Wis. Tool for harvesting cabbage-heads. No. 1,314,999; Sept. 2; v. 266; p. 97.
- Allen, Burnet H., Aberdeen, Wash. Rotary steam-engine. No. 1,309,871; July 15; v. 264; p. 410.
- Allen, Charles C. (See Bunker, Charles A., assignor.)



- Allen, Charles, El Paso, Tex. Overflow control for separating-tanks. No. 1,296,252; Mar. 4; v. 260; p. 100.
- Allen, Charles E., Montreal, Quebec, Canada. Rail-anchor. No. 1,291,706; Jan. 21; v. 258; p. 457.
- Allen, Charles H. (See Sheldon and Allen.)
- Allen, Charles H., Pittsburgh, Pa., assignor, by mesne assignments, to The Morris Automatic Scale Company. Electrically-operated releasing device for weighing-machines. No. 1,291,707; Jan. 21; v. 258; p. 457.
- Allen, Charles H., Pittsburgh, Pa. Floating tool-chuck. No. 1,322,474; Nov. 18; v. 268; p. 513.
- Allen, Charles R. (See Hirschmann, Joseph, assignor.)
- Allen, Charles S., Los Angeles, Calif. Homogenizer. No. 1,311,737; July 29; v. 264; p. 818.
- Allen, Clife C., and E. J. George, assignors to Geo. S. Johnston Company, Chicago, Ill. Instrument for testing the abnormalities of the recti muscles of the human eye. No. 1,292,671; Jan. 28; v. 258; p. 714.
- Allen & Daggett Inc. (See Watson, George W., assignor.)
- Allen, David, New York, N. Y. Cigar-vending machine. No. 1,297,775; Mar. 18; v. 260; p. 500.
- Allen, Earl E., Sayre, Pa. Marking device. No. 1,294,595; Feb. 18; v. 259; p. 444.
- Allen, Edgar H., Chicago, Ill. Clock-frame. No. 1,320,520; Nov. 4; v. 268; p. 30.
- Allen, Edward B., and A. R. Wood, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Label-stitching machine. No. 1,319,450; Oct. 21; v. 267; p. 428.
- Allen, Edward F. (See Naugler, Walter E., assignor.)
- Allen, Edward H., *et al.* (See Druitt and Gilpin, assignors.)
- Allen, Edward L., Pittsburgh, Pa. Garment-supporter. No. 1,312,718; Aug. 12; v. 265; p. 194.
- Allen, Elmer E., Flushing, N. Y. Liquid-dispenser. No. 1,296,351; Mar. 4; v. 260; p. 121.
- Allen, Ernest C. (See Barnes and Allen.)
- Allen, George H., Clinton, N. Y. Furniture-polish. No. 1,309,171; July 8; v. 264; p. 243.
- Allen, George T., New York, N. Y. Concrete-mixer. No. 1,325,708; Dec. 23; v. 269; p. 591.
- Allen, George W., assignor to B. F. Sturtevant Company, Boston, Mass. Pneumatic cleaner. No. 1,305,242; June 3; v. 263; p. 3.
- Allen, George W. H. (See Collins, William D., assignor.)
- Allen, Gerald H. and W. H. Detroit, Mich.; said Gerald H. Allen assignor to said W. H. Allen. Rust-preventing coating. No. 1,305,331; June 3; v. 263; p. 19.
- Allen, Harry S., Pontiac, Ill. Container. No. 1,317,343; Sept. 30; v. 266; p. 639.
- Allen, Henry H. (See Allen, Preston H. and H. H.)
- Allen, Henry W., Earlsville, Va. Method of and apparatus for separating minerals. No. 1,301,532; Apr. 22; v. 261; p. 724.
- Allen, Herbert I., assignor to Electron Chemical Company, Portland, Me. Electrolysis. No. 1,303,226; May 13; v. 262; p. 171.
- Allen, James A., assignor of one-half to B. F. Briggs, Providence, R. I. Printing-press. No. 1,305,431; June 3; v. 263; p. 38.
- Allen, James M., assignor of one-half to R. Lobsinger, St. Louis, Mo. Scissors-sharpener. No. 1,324,097; Dec. 9; v. 269; p. 209.
- Allen, John D., Washington, D. C. Window-curtain hanger. No. 1,298,634; Apr. 1; v. 261; p. 3.
- Allen, John D., Philadelphia, Pa. Compensating driving mechanism for motor-vehicles. No. 1,323,384; Dec. 2; v. 269; p. 30.
- Allen, John E., San Francisco, Calif., assignor of one-half to J. J. Crosby, Jersey City, N. J. Life-boat. No. 1,299,282; Apr. 1; v. 261; p. 252.
- Allen, Joseph S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combination organ-stop action. No. 1,311,865; Aug. 5; v. 265; p. 3.
- Allen, Joseph S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,321,181; Nov. 11; v. 268; p. 218.
- Allen, Leonard M. (See Lobel, Herman, assignor.)
- Allon, Lloyd S., New York, N. Y. Landing-gear for aeroplanes. No. 1,296,734; Mar. 11; v. 260; p. 243.
- Allen, Melvin P., Kansas City, Mo. Combination-mop. No. 1,315,900; Sept. 9; v. 266; p. 270.
- Allen, Moses T., Neville, Saskatchewan, Canada. Telephone attachment. No. 1,297,774; Mar. 18; v. 260; p. 499.
- Allen, Oglesby, Jr., Chicago, Ill. Ignition-plug. No. 1,314,490; Aug. 26; v. 265; p. 583.
- Allen, Philip, Providence, R. I. Automatic sprinkler. No. 1,298,152; Mar. 25; v. 260; p. 604.
- Allen, Preston H., assignor to Bemis Bro. Bag Company, St. Louis, Mo. Mailing device. No. 1,295,833; Mar. 4; v. 260; p. 3.
- Allen, Preston H. and H. H., assignors to Bemis Bro. Bag Company, St. Louis, Mo. Waterproof container or envelop. No. 1,295,832; Mar. 4; v. 260; p. 3.
- Allen, Preston H. and H. H., assignors to Bemis Bro. Bag Company, St. Louis, Mo. Fastener for containers or envelops. No. 1,314,781; Sept. 2; v. 266; p. 57.
- Allen, Ralph, Shelton, assignor to The Acme Tool & Machine Co., Derby, Conn. Carpenter's plane. No. 1,324,486; Dec. 9; v. 269; p. 284.
- Allen, Robert, Caversham, England. Manufacturing metal tubes. No. 1,324,714; Dec. 9; v. 269; p. 327.
- Allen S. Davison Company. (See Meyer, Albert P., assignor.)
- Allen, Samuel L., Moorestown, N. J., assignor to S. L. Allen & Co. Cultivator. No. 1,304,926; May 27; v. 262; p. 562.
- Allen, Sherman T., Burbank, Cal. Tractor. No. 1,290,475; Jan. 7; v. 258; p. 112.
- Allen, Sherman T., Los Angeles, Calif. Tractor-wheel. No. 1,297,631; Mar. 18; v. 260; p. 467.
- Allen, Sherman T., Los Angeles, Calif. Tractor-wheel. No. 1,302,269; Apr. 29; v. 261; p. 895.
- Allen, Sherman T., Los Angeles, Calif. Auto-top. No. 1,305,185; May 27; v. 262; p. 611.
- Allen, Sherman T., Los Angeles, Calif., assignor of one-half to J. H. Hunt, Chicago, Ill. Self-cleaning grouser for tractor-wheels and the like. No. 1,309,006; July 8; v. 264; p. 212.
- Allen, Warren, Dansville, N. Y. Repair-peg. No. 1,292,984; Feb. 4; v. 259; p. 3.
- Allen, William H., Detroit, Mich. Rust-proofing coating for iron and steel. No. 1,290,476; Jan. 7; v. 258; p. 112.
- Allen, William H., Detroit, Mich. Pickling-bath. No. 1,321,182; Nov. 11; v. 268; p. 219.
- Allen, William H., assignor to Parker Rust Proof Company of America, Detroit, Mich. Solution for rust-proofing articles of iron and steel. No. 1,291,352; Jan. 14; v. 258; p. 343.
- Allen, William H., Momence, assignor of one-third to E. A. Kramer, Grant Park, Ill. Brick-carrier. No. 1,308,021; July 1; v. 264; p. 3.
- Allen, William L., Jacksonville, Fla. Signaling means. No. 1,296,253; Mar. 4; v. 260; p. 100.
- Allen, William R., assignor to Gereke-Allen Carton Company, St. Louis, Mo. Paper box. No. 1,298,635; Apr. 1; v. 261; p. 3.
- Allenson, David, Riley, Kans. Folding-bed attachment for automobiles. No. 1,313,870; Aug. 26; v. 265; p. 465.
- Alderding, Cletus N., Mansfield, Ohio. Steering-wheel. No. 1,321,876; Nov. 18; v. 268; p. 401.
- Alles, Conrad, Peck, Idaho. Ax. No. 1,322,993; Nov. 25; v. 268; p. 662.
- Allgrunn, Carl G., Rochester, N. Y. Rifling-tool and using same. No. 1,311,107; July 22; v. 264; p. 667.
- Allgrunn, Carl G., Rochester, N. Y. Rifling-machine. No. 1,311,584; July 29; v. 264; p. 789.
- Alliance Co. (See Hugill, Ashton C., assignor.)
- Alliance Machine Company. (See Kendall, David, assignor.)
- Allin, George E., Derby, England. Time-checking apparatus for workmen and other employees. No. 1,315,588; Sept. 9; v. 266; p. 213.
- Ailing, James H., *et al.* (See Hussey, William A., assignor.)
- Allinger, Benjamin G., Quincy, Ohio. Bag. No. 1,324,533; Dec. 9; v. 269; p. 293.
- Allinio, Peter, El Cerrito, Cal. Aeroplane. No. 1,292,415; Jan. 28; v. 258; p. 651.
- Allinmesh Transmission Company. (See McCarrell, William A., assignor.)
- Allis, Burton W., Garnett, Kans. Cooking apparatus. No. 1,318,308; Oct. 7; v. 267; p. 124.
- Allis-Chalmers Manufacturing Company. (See Brown, Arthur J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Dahlstrand, Hans P., assignor.)
- Allis-Chalmers Manufacturing Company. (See Deutsch, Edward I., assignor.)
- Allis-Chalmers Manufacturing Company. (See George, Edgar C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Greenleaf and Hansen, assignors.)
- Allis-Chalmers Manufacturing Company. (See Haderer, Carl F., assignor.)
- Allis-Chalmers Manufacturing Company. (See Holthoff, Henry C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Housum, Chenoweth, assignor.)
- Allis-Chalmers Manufacturing Company. (See Lincoln, Charles S., assignor.)
- Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Patitz, Johann F. M., assignor.)
- Allis-Chalmers Manufacturing Company. (See Pfau, Arnold, assignor.)
- Allis-Chalmers Manufacturing Company. (See Powell, William H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Search, Charles E., assignor.)
- Allis-Chalmers Manufacturing Company. (See Steen, Halfdan A., assignor.)
- Allis-Chalmers Manufacturing Company. (See Trout, William H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Van Zandt, Paul C., assignor.)
- Allis, Hannora E., administratrix. (See Allis, Thomas V.)
- Allis, Thomas V., deceased, Pittsburgh, Pa.; H. E. Allis, administratrix. Sheet and tin mill furnace. No. 1,318,948; Oct. 14; v. 267; p. 307.



## Alphabetical list of patentees—Continued.

- Allison, Albert J., assignor to The A. A. Simonds & Son Company, Dayton, Ohio. Beater-roll. No. 1,295,252; Feb. 25; v. 259; p. 619.
- Allison, Albert J., assignor to The A. A. Simonds Sons Company, Dayton, Ohio. Beater-roll. No. 1,318,949; Oct. 14; v. 267; p. 308.
- Allison, Albert J., assignor to The A. A. Simonds & Son Company, Dayton, Ohio. Beater-roll. No. 1,318,950; Oct. 14; v. 267; p. 308.
- Allison, Benjamin A., Edwardsville, Ill., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Recovery of fiber and asphalt from roofing-scrap. No. 1,293,293; Feb. 4; v. 259; p. 75.
- Allison, Charles H., Glendale, Calif. Detonator. No. 1,306,510; June 10; v. 263; p. 272.
- Allison, Daniel K., assignor to The J. H. Day Company, Cincinnati, Ohio. Device for spacing dough balls. No. 1,291,353; Jan. 14; v. 258; p. 343.
- Allison, Daniel K., assignor to The J. H. Day Company, Cincinnati, Ohio. Pan-skip device for cracker-cutting-machines. No. 1,292,985; Feb. 4; v. 259; p. 3.
- Allison, Daniel K., assignor to The J. H. Day Company, Cincinnati, Ohio. Machine for cooling bread. No. 1,312,294; Aug. 5; v. 265; p. 82.
- Allison, Daniel K., Cincinnati, Ohio. Pan-skipping device for cracker-cutting machines. No. 1,323,667; Dec. 2; v. 269; p. 83.
- Allison, Daniel K., Cincinnati, Ohio. Pan-skipping device for cracker-cutting machines. No. 1,323,668; Dec. 2; v. 269; p. 83.
- Allison, Irene, Waynesburg, Pa. Abdominal support. No. 1,309,007; July 8; v. 264; p. 212.
- Allison, James F., Chicago, Ill. Hat appliance. No. 1,306,989; June 17; v. 263; p. 393.
- Allison, Jesse H., Chicago, Ill. Flue-cutter. No. 1,320,521; Nov. 4; v. 268; p. 31.
- Allith Prouty Company. (See Older, Roy B., assignor.)
- Allith Prouty Company. (See Willard, Donald E., assignor.)
- Allman, John W., et al. (See Ricke, George H., assignor.)
- Allmand, John T. (See Gates and Allmand.)
- Allmand, John T., assignor to Fisher Body Corporation, Detroit, Mich. Drip-trough for automobiles. No. 1,307,801; June 24; v. 263; p. 574.
- Allmand, John T., and J. D. Lawrence, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Window-regulator. No. 1,317,150; Sept. 30; v. 266; p. 603.
- Allmon, Joseph G., Oakland, Cal. Wrench. No. 1,291,633; Jan. 14; v. 258; p. 409.
- Alloys Company, The. (See Newall, Minton H., assignor.)
- Alphin, Willard J., Portland, Oreg. Electrical fixture. No. 1,303,006; May 6; v. 262; p. 101.
- Alsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Dyeing-machine. No. 1,300,233; Apr. 15; v. 261; p. 419.
- Alsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Germantown, Philadelphia, Pa. Drying and conditioning machine. No. 1,304,645; May 27; v. 262; p. 510.
- Alsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,308,024; July 1; v. 264; p. 3.
- Alsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,322,279; Nov. 18; v. 268; p. 476.
- Alsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,322,280; Nov. 18; v. 268; p. 476.
- Alsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying and carbonizing machine. No. 1,326,161; Dec. 30; v. 269; p. 711.
- Allstatter, Edwin E., Hamilton, Ohio. Toy. No. 1,323,669; Dec. 2; v. 269; p. 83.
- Allsteelquip Company. (See Erickson, Axel F., assignor.)
- Allwill, Stephen S., Hautapu, Auckland, New Zealand. Switch-disk. No. 1,325,682; Dec. 23; v. 269; p. 586.
- Allwill, Stephen S., Hautapu, Auckland, New Zealand. Apparatus for preventing collisions on railways. No. 1,325,683; Dec. 23; v. 269; p. 586.
- Allwood, Ernest, assignor of one-third to A. F. Zimmerman and one-third to J. Eley, Hamilton, Ontario, Canada. Automatic clutch-operating mechanism of knitting-machines. No. 1,292,672; Jan. 28; v. 258; p. 714.
- Allyn, Robert S., trustee. (See Clark, Norris E., assignor.)
- Alma Manufacturing Company of Baltimore City. (See Kerngood, Allen H., assignor.)
- Almedia, Jose M., Shoshone, Idaho. Locking device for bags. No. 1,295,854; Mar. 4; v. 260; p. 3.
- Almen, August A., Minneapolis, Minn. Combination cot and bench. No. 1,312,299; Aug. 5; v. 265; p. 83.
- Almen, John O., Seattle, Wash. Internal-combustion engine. No. 1,300,098; Apr. 8; v. 261; p. 363.
- Almeti Accessories Corporation. (See Feldman, Albert E., assignor.)
- Almiroty, Randolph H., New York, N. Y. Sealing means for burial-caskets, &c. No. 1,306,457; June 10; v. 263; p. 263.
- Almquist, Carl G., Chicago, Ill. Counterbalance. No. 1,312,665; Aug. 12; v. 265; p. 184.
- Almquist, Walter L., Bristol, S. D. License-bracket for automobiles. No. 1,323,211; Nov. 25; v. 268; p. 704.
- Alquist, Karl, Schenectady, N. Y. Gearing. No. 1,304,241; May 20; v. 262; p. 393.
- Alquist, Karl, Schenectady, N. Y. Assembling gearing. No. 1,304,242; May 20; v. 262; p. 393.
- Alquist, Karl, Schenectady, N. Y. Gear-wheel. No. 1,326,706; Dec. 30; v. 269; p. 814.
- Alonso, Guillermo A. (See Repp, Clinton B., assignor.)
- Alo, Philip, assignor of one-half to A. B. Peirce, New York, N. Y. Non-refillable bottle. No. 1,321,411; Nov. 11; v. 268; p. 263.
- Alperin, Bernard A., Philadelphia, Pa. Universal joint. No. 1,317,344; Sept. 30; v. 266; p. 639.
- Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Governing mechanism. No. 1,298,432; Mar. 25; v. 260; p. 665.
- Alschuler, Alfred S., Winnetka, Ill. Roof construction. No. 1,317,470; Sept. 30; v. 266; p. 663.
- Alspaugh, James S., Portsmouth, Ohio. Mechanical movement. No. 1,308,832; July 8; v. 264; p. 179.
- Alsrube, Urban S., Towson, Md. Building construction. No. 1,317,471; Sept. 30; v. 266; p. 663.
- Alstrand, Felix K., Worcester, Mass. Mailing-purse. No. 1,315,696; Sept. 9; v. 266; p. 231.
- Altamus, Forrest E., Philadelphia, Pa. Lighting-switch. No. 1,298,854; Apr. 1; v. 261; p. 55.
- Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Casing for vacuum-insulated vessels. No. 1,293,292; Feb. 4; v. 259; p. 75.
- Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Vacuum-insulated vessel and casing therefor. No. 1,293,294; Feb. 4; v. 259; p. 75.
- Altergott, Fred, Jr., Kansas City, Mo. Fastening device for tire-chains. No. 1,310,171; July 15; v. 264; p. 464.
- Althoff, August W., Oklahoma, Okla. Automobile-wheel. No. 1,314,727; Sept. 2; v. 266; p. 48.
- Althouse, Albert C., Dublin, Pa. Heater. No. 1,314,113; Aug. 26; v. 265; p. 511.
- Altieri, Louis A., San Francisco, Calif. Direction-indicator for automobiles. No. 1,320,822; Nov. 4; v. 268; p. 87.
- Altman, Emil, Brooklyn, N. Y. Protector for the eyes. No. 1,298,636; Apr. 1; v. 261; p. 3.
- Altman, Emil, Sheridan, Wyo. Tobacco-pipe. No. 1,302,270; Apr. 29; v. 261; p. 895.
- Altman, Fred E. (See Frederick and Altman.)
- Altmayer, Marvin C., New York, N. Y. Tire-protector. No. 1,307,531; June 24; v. 263; p. 525.
- Alton, Jesse B. (See Stanfield, Jasper H., assignor.)
- Altoonian, Reuben E., New York, N. Y. Combined writing-sheet and envelop. No. 1,317,537; Sept. 30; v. 266; p. 676.
- Altorfer, Alpheus W., Peoria, Ill. Driving mechanism. No. 1,302,120; Apr. 29; v. 261; p. 867.
- Altpeter, Walter, assignor of one-third to E. Smet, Chicago, and one-third to F. E. Edwards, Crystal Lake, Ill. Curtain-fastener. No. 1,304,527; May 27; v. 262; p. 489.
- Altwegg, Jean, St. Fons, assignor to Société Chimique des Usines du Rhone Ancienement Gillard P. Monnet et Cartier, Paris, France. Preparation of primary alcohols. No. 1,315,619; Sept. 9; v. 266; p. 218.
- Aluminum Castings Company, The. (See Amick, Clair J., assignor.)
- Aluminum Castings Company, The. (See Bamberg, Joseph H., assignor.)
- Aluminum Castings Company, The. (See Jeffries, Zay, assignor.)
- Aluminum Castings Company, The. (See Norton, Allen B., assignor.)
- Aluminum Castings Company, The. (See Parkhurst, Fredric A., assignor.)
- Aluminum Company of America. (See Acton, Dickie, and Pratt, assignors.)
- Aluminum Company of America. (See Sherwin, Ralph S., assignor.)
- Alvarez, Ernest E., Tunis, Tunis. Apparatus for watering by means of suspended pipes. No. 1,321,350; Nov. 11; v. 268; p. 251.
- Alverson, Lewis, Dallas, Tex., assignor to M. O. Shoop, St. Paul, Minn. Fence-stay machine. No. 1,290,477; Jan. 7; v. 258; p. 112.
- Alvey, Benjamin H., Louisville, Ky. Automobile-top. No. 1,307,073; June 17; v. 263; p. 409.
- Alvey-Ferguson Company, The. (See Bernheim, Morris U., assignor.)
- Alvey, John A., assignor to Alvey Manufacturing Company, St. Louis, Mo. Machine for cutting macaroni, spaghetti, and similar articles. No. 1,314,300; Aug. 26; v. 265; p. 547.
- Alvey Manufacturing Company. (See Alvey, John A., assignor.)
- Alwart, Paul J., Chicago, Ill. Means for converting base-burner stoves into soft-coal heaters. No. 1,305,764; June 3; v. 263; p. 101.



- Alwen, Percy, Vernon, British Columbia, Canada. Lamp-support. No. 1,299,533; Apr. 8; v. 261; p. 237.
- Alwood, James O., Richmond, Va. Hydrocarbon-burner. No. 1,304,927; May 27; v. 262; p. 562.
- Alzmann, Peter F., Brooklyn, N. Y. Electric brazing-switch. No. 1,303,007; May 6; v. 262; p. 101.
- Amalgamated Machinery Corporation. (See Yeomans, Lucien I., assignor.)
- Amans, Alex E., Seattle, Wash. Separating oil-cans. No. 1,320,856; Oct. 28; v. 267; p. 621.
- Amato, Frank, Long Island City, N. Y. Automobile bar-bumper. No. 1,313,043; Aug. 12; v. 265; p. 258.
- Amberg Steel Company. (See Amberg, Walter E., assignor.)
- Amberg, Walter E., assignor to Amberg Steel Company, Chicago, Ill. Detachable link belt. No. 1,313,871; Aug. 26; v. 265; p. 465.
- Amberg, Walter E., assignor to Amberg Steel Company, Chicago, Ill. Nut-making process. No. 1,314,036; Aug. 26; v. 265; p. 497.
- Amberg, Walter E., assignor to Amberg Steel Company, Chicago, Ill. Tube-making process and machine. No. 1,314,037; Aug. 26; v. 265; p. 497.
- Ambler, Joseph A., Norwich, Conn., and H. D. Gibbs, San Francisco, Cal. Manufacture of toluene sulfonic acids. No. 1,292,950; Jan. 28; v. 258; p. 780.
- Ambler, Joseph A., Norwich, Conn., and H. D. Gibbs, San Francisco, Cal. Manufacture of aromatic sulfonic acids. No. 1,300,227; Apr. 8; v. 261; p. 391.
- Ambler, Joseph A., Norwich, Conn., and H. D. Gibbs, San Francisco, Cal. Manufacture of benzene sulfonic acids. No. 1,300,228; Apr. 8; v. 261; p. 391.
- Ambler, Joseph A., Norwich, Conn., H. A. Lubs, Savannah, Ga., and H. D. Gibbs, San Francisco, Cal. Manufacture of cymene sulfonic acids. No. 1,316,823; Sept. 23; v. 266; p. 505.
- Ambrose, Harry T. (See Walter, Edward C., assignor.)
- Ambrose, Henry W. (See Ambrose, Jennings G. and H. W.)
- Ambrose, J. G. (See Robbins, Nova B., assignor.)
- Ambrose, Jennings G., San Diego, Cal. Airship. No. 1,291,354; Jan. 14; v. 258; p. 343.
- Ambrose, Jennings G., San Diego, Calif. Engine. No. 1,324,534; Dec. 9; v. 269; p. 293.
- Ambrose, Jennings G., assignor of one-third to T. C. Hammond and one-third to H. W. Ambrose, Loma Portal, Calif. Permutation-lock. No. 1,305,681; June 3; v. 263; p. 86.
- Ambrose, Jennings G. and H. W., Loma Portal, Calif. Spark-plug. No. 1,319,133; Oct. 21; v. 267; p. 367.
- Ambrose, Lee O. (See Coleman and Ambrose.)
- Ambrose, Nicholas M., et al. (See Dickerson, Arthur, assignor.)
- Ambursen, Nils F., Newton, assignor to The Uni-Form Company, Boston, Mass. Apparatus for constructing concrete floors and walls. No. 1,292,986; Feb. 4; v. 259; p. 3.
- Amdursky, Samuel S., and S. Rubinfeld, Rochester, N. Y. Machine for cutting buttonholes. No. 1,316,215; Sept. 16; v. 266; p. 342.
- Amende, William, and L. F. Kuhnhehn, Belmont, Wis., and J. T. Henry, Doland, S. D. Concrete-mixer. No. 1,323,434; Dec. 2; v. 269; p. 40.
- American Arch Company. (See Neale, William W., assignor.)
- American Arch Company. (See Willett, Alfred H., assignor.)
- American Assembling Machine Company. (See Juengst, Charles A., assignor.)
- American Atmos Corporation. (See Koehler, Frederick W., assignor.)
- American Atmos Corporation. (See Luchs, Friedrich M., assignor.)
- American Automatic Scale Company. (See Wolf, Elmer E., assignor.)
- American Automatic Soda Fountain Company. (See Wooten and Harmon, assignors.)
- American Badge Company. (See Smith, Frank A., assignor.)
- American Balsa Company. (See Broady, Harry W., assignor.)
- American Bank Note Company. (See Aitchison, Peter, assignor.)
- American Bank Note Company. (See Eaton, William S., assignor.)
- American Bank Note Company. (See Smith, Amos H., assignor.)
- American Barking Drum Company. (See Guttler, Herbert, assignor.)
- American Barking Drum Company. (See Quettler, Herbert W., assignor.)
- American Bosch Magneto Corporation. (See Heins, Wild, and Schwarzmann, assignors.)
- American Bosch Magneto Corporation. (See Kazenmaier, August, assignor.)
- American Bosch Magneto Corporation. (See Kazenmaier and Bauer, assignors.)
- American Bosch Magneto Corporation. (See Kleinert, Karl, assignor.)
- American Bosch Magneto Corporation. (See Kratz, Franz, assignor.)
- American Bosch Magneto Corporation. (See Kratz and Schäfer, assignors.)
- American Bosch Magneto Corporation. (See Krauss, Adolf, assignor.)
- American Bosch Magneto Corporation. (See Naul, James M., assignor.)
- American Bosch Magneto Corporation. (See Schmidt, Karl, assignor.)
- American Bosch Magneto Corporation. (See Schwarzmann, Wolfgang E., assignor.)
- American Brake Company, The. (See Burton, Thomas L., assignor.)
- American Brake Company, The. (See Kadel, Byers W., assignor.)
- American Brake Company, The. (See Wahlert, Henry A., assignor.)
- American Brake Shoe & Foundry Company. (See Jones, Harry, assignor.)
- American Brake Shoe and Foundry Company, The. (See Schoenheiter, Herman K., assignor.)
- American Briquet Company. (See Baker, Burke, assignor.)
- American Briquet Company. (See Hite, Charles E., assignor.)
- American & British Manufacturing Company. (See Newlander, Olaf, assignor.)
- American Brushwell Company. (See Feyes, Andrew, assignor.)
- American Buckle Co., The. (See Hodge, Robert J., assignor.)
- American Button & Fastener Company. (See Elliott, William E., assignor.)
- American Can Company. (See Block, Michael, assignor.)
- American Can Company. (See Bovee, Ransom Y., assignor.)
- American Can Company. (See Butler, William F., assignor.)
- American Can Company. (See Cullen, William J., assignor.)
- American Can Company. (See Dister, Joseph, assignor.)
- American Can Company. (See Fleischer, Paul W., assignor.)
- American Can Company. (See Ford, Ben K., assignor.)
- American Can Company. (See Ford and Hallbauer, assignors.)
- American Can Company. (See Graham, Charles W., assignor.)
- American Can Company. (Reissue.)
- American Can Company. (See Gray, James A., assignor.)
- American Can Company. (See Hodgson, John G., assignor.)
- American Can Company. (See Hoffman, Edmund, assignor.)
- American Can Company. (See Hothersall, John M., assignor.)
- American Can Company. (See Johnson, Axel, assignor.)
- American Can Company. (See Kline, Edward A., assignor.)
- American Can Company. (See Murch, John H., assignor.)
- American Can Company. (See Nowack, Charles H., assignor.)
- American Can Company. (See Rudolphi, Frank, assignor.)
- American Can Company. (See Sharp, Lee C., assignor.)
- American Can Company. (See Stabler and Caldwell, assignors.)
- American Can Company. (See Stollberg, Charles, assignor.)
- American Can Company. (See Taylor, William E., assignor.)
- American Can Company. (See Thornburgh, Ivan D., assignor.)
- American Can Company. (See Wood, Frederick P., assignor.)
- American Canning Corporation. (See Sibley, Rupert R., assignor.)
- American Car and Foundry Company. (See Clarke and Carl, assignors.)
- American Car and Foundry Company. (See Ostrander, Allen E., assignor.)
- American Car and Foundry Company. (See Stevenson, Frederick A., assignor.)
- American Car Sprinkler Co. (See Perry, Earl D., assignor.)
- American Cement Products Company. (See Landwehr, Henry A., assignor.)
- American Chain Company. (See Reyburn, John R., assignor.)
- American Chain Company. (See Reyburn and Sagendorf, assignors.)
- American Chain Company. (See White, Bishop, assignor.)
- American Circular Loom Company. (See Lutz, George A., assignor.)
- American Clay Products Company. (See Shutt, Edward W., assignor.)
- American Code Company. (See Farquhar, Cosmo, assignor.)
- American Concrete Forms Company. (See Belt and Smith, assignors.)
- American Conduit Manufacturing Company. (See Abbott, Chauncey W., assignor.)
- American Continuous Retort Company, The. (See Beam, Aron M., assignor.)

## Alphabetical list of patentees—Continued.

- American Cotton Oil Company. (See Boyce, James, assignor.)  
 American Cyanamid Company. (See Buchanan, Guy H., assignor.)  
 American Cyanamid Company. (See Cox, George E., assignor.)  
 American Cyanamid Company. (See Elbert, John J., assignor.)  
 American Cyanamid Company. (See Freeman, Horace, assignor.)  
 American Cyanamid Company. (See Landis, Walter S., assignor.)  
 American Cyanamid Company. (See Middleton, William H., assignor.)  
 American Cyanamid Company. (See Washburn, Frank S., assignor.)  
 American Dairy Supply Company. (See Compton, Harry L., assignor.)  
 American Dan Stopper Company. (See Nordstrom, Elof, assignor.)  
 American District Telegraph Company. (See Hopkins, Richard M., assignor.)  
 American District Telegraph Company. (See Johnson and Hoge, assignors.)  
 American Electric Company. (See Kideney, William W., assignor.)  
 American Electric Tool Company. (See Paulero, Louis, assignor.)  
 American Electrical Heater Company. (See Kuhn and Hand, assignors.)  
 American Electrical Heater Company. (See Kuhn and Shailor, assignors.)  
 American Electrical Heater Company. (See Kuhn, Hand, and Spiess, assignors.)  
 American Encaustic Tiling Co. (See Lillibridge, Harry D., assignor.)  
 American Engineering Associates *et al.* (See Lieske, Frank J., assignor.)  
 American Engineering Company. (See Alpern, Maxwell, assignor.)  
 American Fastener Company, The. (See Kiessling, Max F., assignor.)  
 American Fork & Hoe Company, The. (See Cowdery, Robert H., assignor.)  
 American Fork & Hoe Company, The. (See Lowell, Erwin D., assignor.)  
 American Fork & Hoe Company, The. (See Withington, Winthrop, assignor.)  
 American Gasaccumulator Company. (See Dalén, Gustaf, assignor.)  
 American Graphophone Company. (See Capps, Frank L., assignor.)  
 American Graphophone Company. (See Hinckley, Frank C., assignor.)  
 American Graphophone Company. (See Lyle, Scully, and Capps, assignors.)  
 American Graphophone Company. (See Woods, Clinton E., assignor.)  
 American Guaranteed Tooth Company. (See Dover, George W., assignor.)  
 American Hardware Corporation, The. (See Hurd, Norman B., assignor.)  
 American Hardware Corporation, The. (See Johnson, Charles E., assignor.)  
 American Hardware Corporation, The. (See Teich, Ernest L., assignor.)  
 American Hardware Corporation, The. (See Wessoleck, Augustus W., assignor.)  
 American Hat Mfg. Co., The. (See Davis, David L., assignor.)  
 American Hoist & Derrick Co. (See Strom, Gustaf E., assignor.)  
 American Hotel Register Co. (See Hall, William H., assignor.)  
 American Incandescent Heat Company. (See Breaker, Harry O., assignor.)  
 American Invisible Stitching Machine Co. (See Mittleberg, Harris, assignor.)  
 American La France Fire Engine Co. (See Hawley, William G., assignor.)  
 American La France Fire Engine Co. (See Knoblock, James W., assignor.)  
 American La France Fire Engine Co. (See McCaslin, Harry M., assignor.)  
 American La France Fire Engine Company (See Mork, Harry S., assignor.)  
 American Lacing Hook Co. (See Havenner, Arthur R., assignor.)  
 American Laundry Machinery Company, The. (See André, William E., assignor.)  
 American Laundry Machinery Company, The. (See Benjamin, Dana H., assignor.)  
 American Laundry Machinery Company, The. (See Bralley, Charles L., assignor.)  
 American Laundry Machinery Company, The. (See Couch and Webber, assignors.)  
 American Laundry Machinery Company, The. (See Dunn, James E., assignor.)  
 American Laundry Machinery Company. (See Snow, Arthur E., assignor.)  
 American Linseed Company. (See Brigham, Henry M., assignor.)  
 American Linseed Company. (See Schaub, Jacob, assignor.)  
 American Lithographic Company. (See Dietsche, Adolph, assignor.)  
 American Lithographic Company. (See Schoder, Charles E., assignor.)  
 American Machine & Foundry Company. (See Smith, Elbert D., assignor.)  
 American Machine & Foundry Company. (See Prescott, Sydney I., assignor.)  
 American Machine & Manufacturing Company. (See Davidson, Joseph, assignor.)  
 American Magnesium Corporation. (See Seward, George O., assignor.)  
 American Magnesium Corporation. (See Waldo, Leonard, assignor.)  
 American Maize Products Company. (See Daly, Raymond B., assignor.)  
 American Manganese Steel Company. (See Black, Edward S., assignor.)  
 American Manganese Steel Company. (See Brinton, Walter, assignor.)  
 American Manganese Steel Company. (See Jensen, Alexander V., assignor.)  
 American Manganese Steel Company. (See Johnson, Frank E., assignor.)  
 American Manganese Steel Company. (See Nichols, Wesley G., assignor.)  
 American Manganese Steel Company. (See Young, Donald H., assignor.)  
 American Manufacturers Sales Company, The. (See Drake, Richard, assignor.)  
 American Marine Equipment Corporation. (See Row and Davis, assignors.)  
 American Mechanical Improvement Company. (See Slate, Thomas B., assignor.)  
 American Metal Cap Company. (See Hammer, Charles, assignor.)  
 American Metal Parts Co. (See Scherff, Henry H., assignor.)  
 American Metal Seal Company. (See Paroubek, Anton J., assignor.)  
 American Meter Company. (See Dickey, Edmund S., assignor.)  
 American Mine Door Company, The. (See Bowman, Newton K., assignor.)  
 American Molding Machine Company. (See Norcross, William C., assignor.)  
 American Morgan Company. (See Morgan, Edmund C., assignor.)  
 American Morocco Case Company. (See Walpuski and Koch, assignors.)  
 American Motor Spring Patents Company. (See Morski, Thomas, assignor.)  
 American Motorbus Corporation. (See Weaver, Harold B., assignor.)  
 American Motors. (See Carrm, Bazal E., assignor.)  
 American Multigraph Company. (See Trundle, George T., Jr., assignor.)  
 American Optical Company. (See Arnold, Arthur A., assignor.)  
 American Optical Company. (See Baker, Nelson M., assignor.)  
 American Optical Company. (See Baker and Parsons, assignors.)  
 American Optical Company. (See Blanchard, William N., assignor.)  
 American Optical Company. (See Boutelle, William H., assignor.)  
 American Optical Company. (See Bugbee, Lucian W., assignor.)  
 American Optical Company. (See Carson, Oswald B., assignor.)  
 American Optical Company. (See Day, George H., assignor.)  
 American Optical Company. (See Demers, Gordon, and Snow, assignors.)  
 American Optical Company. (See Greene, Willard B., assignor.)  
 American Optical Company. (See Herbert, Pitt H., assignor.)  
 American Optical Company. (See Hill, Harry W., assignor.)  
 American Optical Company. (See Hill, Tillyer, and Styll, assignors.)  
 American Optical Company. (See Pellow, Arthur, assignor.)  
 American Optical Company. (See Poeton, Lawrence, assignor.)  
 American Optical Company. (See Reeve, Howard T., assignor.)  
 American Optical Company. (See Schumacher, Elmer L., assignor.)  
 American Optical Company. (See Styll and Bugbee, assignors.)  
 American Optical Company. (See Tillyer and Styll, assignors.)  
 American Paper Goods Company, The. (See Cooley, Henry B., assignor.) (Reissue.)  
 American Piano Company. (See Cogozzo, Joseph, assignor.)



*Alphabetical list of patentees—Continued.*

American Piano Company. (See Russell, Guy M., assignor.)  
 American Pin Company, The. (See Pasman, Abram N., assignor.)  
 American Player Action Company. (See Ottaviano, Giovanni B., assignor.)  
 American Potash Corporation. (See Meadows and Sample, assignors.)  
 American Power Shovel Company. (See Jackson, George W., assignor.)  
 American Precision Works. (See Sticht and Frank, assignors.)  
 American Pressweld Radiator Corporation. (See Irwin, John A., assignor.)  
 American Pressweld Radiator Corporation. (See Singer, Frank J., assignor.)  
 American Products Company. (See Hodge and Ruggles, assignors.)  
 American Pulley Company, The. (See Bowen, Russell H., assignor.)  
 American Pulverizer Company. (See Knittel, Paul S., assignor.)  
 American Pure Food Process Company, The. (See Schmitt, Edward D., assignor.)  
 American Radiator Company. (See Eggleston, Lewis W., assignor.)  
 American Railways Equipment Company, The. See Whistler, David B., assignor.)  
 American Road Machinery Company. (See Berry, Earl E., assignor.)  
 American Rolling Mill Company, The. (See Wilson, Dixon, and McLaughlin, assignors.)  
 American Rubber Company. (See Gibbons, Willis A., assignor.)  
 American Rubber Company. (See Somerville, Albert A., assignor.)  
 American Safety Razor Company. (See Fuller, Franz A., assignor.)  
 American Sales Book Company. (See Bottle, Edward K., assignor.)  
 American Sales Book Company. (See Bovier, Archie M., assignor.)  
 American Sales Book Company. (See Yerkes, Adolph A., assignor.)  
 American Salvage Company, The. (See Matter, Albert J., assignor.)  
 American Salvage Company, The. (See Sisson, William D., assignor.)  
 American Saw & Manufacturing Company. (See Ericson, Carl L., assignor.)  
 American Seating Company. (See Wills, Wayne, assignor.)  
 American Sheet Metal Works. (See Patterson, William H., assignor.)  
 American Sheet & Tin Plate Company. (See Dewey, Bradley, assignor.)  
 American Sheet and Tin Plate Company. (See Skemp, Robert, assignor.)  
 American Sintering Company. (See Reckard, William P., assignor.)  
 American Sleeve-Valve Motor Company. (See Williams, Martin L., assignor.)  
 American Sleeve-Valve Motor Company. (See Williams and Witt, assignors.)  
 American Slicing Machine Co. (See Wolff and Hood, assignors.)  
 American Smelting & Refining Co. (See Adams, Charles W., Jr., assignor.)  
 American Smelting & Refining Co. (See Richards, Adelbert H., assignor.)  
 American Smelting & Refining Co. (See Van Amburgh, Charles, assignor.)  
 American Smelting & Refining Company. (See Philleo, George W., assignor.)  
 American Spring Machine Co., The. (See Hood, Ernest K., assignor.)  
 American Stainless Steel Company, The. (See Haynes, Elwood, assignor.)  
 American Steam Boiler Cleaner Co. (See Schreiber, Norbert, assignor.)  
 American Steam Boiler Cleaner Company. (See Phillips and Dick, assignors.)  
 American Steam Conveyor Corporation. (See Daviess, James A., assignor.)  
 American Steam Conveyor Corporation. (See Griffin, Lorne A., assignor.)  
 American Steam Conveyor Corporation. (See Webster, Towner K., Jr., assignor.)  
 American Steam Gauge & Valve Manufacturing Company. (See Hopkins, Frank H., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Merkt, Gustav A., assignor.) (Reissue.)  
 American Steel Foundries. (See Conrath, Bernard, assignor.)  
 American Steel Foundries. (See Dalman, John W., assignor.)  
 American Steel Foundries. (See Floyd, George G., assignor.)  
 American Steel Foundries. (See Fowler, William E., Jr., assignor.)  
 American Steel Foundries. (See Hammond, Robert S., assignor.)

American Steel Foundries. (See Hedgecock, William C., assignor.)  
 American Steel Foundries. (See Janney, Robert E. L., assignor.)  
 American Steel Foundries. (See Kinne, Edmund P., assignor.)  
 American Steel Foundries, The. (See Mitchell, Ormah R., assignor.)  
 American Steel Foundries. (See Palmquist, Eric W., assignor.)  
 American Steel Foundries. (See Peycke, Armand H., assignor.)  
 American Steel Foundries. (See Peycke and Whitney, assignors.)  
 American Steel Foundries. (See Whitney, Loren L., assignor.)  
 American Steel Frame & Band Iron Company. (See Kipniss and Neumann, assignors.)  
 American Steel Window Company. (See Burk, William H., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Febrey, Harold H., assignor.)  
 American Steel & Wire Company of New Jersey, The. (See Merkt, Gustav A., assignor.)  
 American Stove Company, The. (See Meacham, Benjamin E., assignor.)  
 American Stove Company. (See Nicolaus, Frederic G., assignor.)  
 American Stove Company. (See Roy, Joseph, assignor.)  
 American Stove Company. (See Ruppel, Henry, assignor.)  
 American Super-Steel Corporation. (See Pelton, Edward T., assignor.)  
 American Synthetic Dyes Incorporated. (See Hamlin, Marston L., assignor.)  
 American Tag Company. (See Swett, Arthur H., assignor.)  
 American Telephone and Telegraph Company. (See Blauvelt, William G., assignor.)  
 American Telephone and Telegraph Company. (See Carson, John R., assignor.)  
 American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)  
 American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)  
 American Telephone and Telegraph Company. (See Flyc, William L., assignor.)  
 American Telephone and Telegraph Company. (See Freund, Otto A., assignor.)  
 American Telephone and Telegraph Company. (See Gherardi, Bancroft, assignor.)  
 American Telephone and Telegraph Company. (See Kirkwood, Maclean, assignor.)  
 American Telephone and Telegraph Company. (See Klein, Charles H., assignor.)  
 American Telephone and Telegraph Company. (See Mills and Carson, assignors.)  
 American Telephone and Telegraph Company. (See Mouradian, Hughes, assignor.) (Reissue.)  
 American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)  
 American Telephone and Telegraph Company. (See Parker, Ralzemond D., assignor.)  
 American Telephone and Telegraph Company. (See Pierce, Ralph E., assignor.)  
 American Telephone and Telegraph Company. (See Shaw, Thomas, assignor.)  
 American Telephone and Telegraph Company. (See Toomey, John F., assignor.)  
 American Telephone and Telegraph Company. (See Toomey and Demarest, assignors.)  
 American Telephone and Telegraph Company. (See Vernam, Gilbert S., assignor.)  
 American Thermophone Company. (See De Lange, Pieter, assignor.)  
 American Thermophone Company. (See De Lange and van Lyden, assignors.)  
 American Thermophone Company. (See Van Lynden, Robert A. B., assignor.)  
 American Thread Company, The. (See Schloerb, Arthur H., assignor.)  
 American Tool Works Company, The. (See Robinson and Sosa, assignors.)  
 American Tool Works Company, The. (See Schatz, Herman W., assignor.)  
 American Tool Works Company, The. (See Schatz and Sosa, assignors.)  
 American Toy Shop, The. (See Otto, Adolph O., assignor.)  
 American Toyland Creators, Inc. (See Wiebe, Sigurd, assignor.)  
 American Train Control Co., The. (See Scott and Rudolph, assignors.)  
 American Truck Body Company. (See Fontaine and Greer, assignors.)  
 American Valve & Meter Company, The. (See Anderson, Frank C., assignor.)  
 American Voting Machine Company. (See Babock, William H., assignor.)  
 American Vulcanized Fibre Co. (See Pierce, James F., assignor.)  
 American Vulcanized Fibre Co. (See Pierce and Heinel, assignors.)

## Alphabetical list of patentees—Continued.

- American Vulcanized Fibre Company. (See Stout, George W., assignor.)
- American Warp Drawing Machine Company. (See Blair, Charles E., assignor.)
- American Warp Drawing Machine Company. (See Field and Lanning, assignors.)
- American Warp Drawing Machine Company. (See Hathaway and Lea, assignors.)
- American Warp Drawing Machine Company. (See La Chance and Pennell, assignors.)
- American Water Supply Company of New England. (See Bohlman, George J., assignor.)
- American Well Works, The. (See Bodinson, Lars W., assignor.)
- American Well Works, The. (See Chapman, Matthew T., assignor.)
- American Well Works, The. (See Kerr, Charles V., assignor.)
- American Whaley Engine Company. (See Whaley, William B., assignor.)
- American Wood Working Machinery Co. (See Clement and Perkins, assignors.)
- American Zinc, Lead & Smelting Co. (See Wemple, Leand E., assignor.)
- Ames, Adelbert, Jr., Tewkesbury, Mass. Reflector. No. 1,306,511; June 10; v. 263; p. 272.
- Ames-Bonner Company, The. (See Jobst, Conrad, assignor.)
- Ames, Bradford L., Boston, Mass. Smoke-preventer. No. 1,309,172; July 8; v. 264; p. 243.
- Ames, Butler, Lowell, Mass. Magnetic razor. No. 1,299,095; Apr. 1; v. 261; p. 110.
- Ames, Butler, Lowell, Mass. Magnetic razor. No. 1,299,096; Apr. 1; v. 261; p. 111.
- Ames, Butler, Lowell, Mass. Magnetic razor. No. 1,299,097; Apr. 1; v. 261; p. 111.
- Ames, Butler, Lowell, Mass. Safety razor. No. 1,299,098; Apr. 1; v. 261; p. 111.
- Ames, Butler, Lowell, Mass. Safety razor. No. 1,299,099; Apr. 1; v. 261; p. 111.
- Ames, Butler, Lowell, Mass. Safety-razor. No. 1,305,332; June 3; v. 263; p. 19.
- Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Transfer mechanism for knitting-machines. No. 1,297,632; Mar. 18; v. 260; p. 468.
- Ames, Elmer U., assignor to H. Brinton Company, Philadelphia, Pa. Knitting-machine. No. 1,320,438; Nov. 4; v. 268; p. 15.
- Ames, George C., San Francisco, Calif. Mechanical movement. No. 1,314,728; Sept. 2; v. 266; p. 48.
- Ames, Howard. (See Rhoades, Leonard H., assignor.)
- Ames, Joseph A., Nashville, Tenn. Waterproof footwear. No. 1,290,692; Jan. 7; v. 258; p. 164.
- Ames, Leroy A., et al. (See Wolfard, Merl R., assignor.)
- Amet, Edward H., Redondo Beach, Calif. Reticulated motion-picture curtain. No. 1,308,468; July 1; v. 264; p. 84.
- Amet, Edward H., assignor of one-half to C. J. Funk, Redondo Beach, Calif. Drain-pipe cleaner. No. 1,308,469; July 1; v. 264; p. 84.
- Amherst Waxed Paper Mills. (See Scott, William H., assignor.)
- Amidon, William S., Milwaukee, Wis. Interlocking-endless-chain corrugating mechanism. No. 1,293,295; Feb. 4; v. 259; p. 75.
- Amieux, Louis E., assignor to Société Amieux Frères & Cie., Nantes-Chantenay, France. Receptacle. No. 1,312,466; Aug. 5; v. 265; p. 115.
- Amik, Clair J., assignor to The Aluminum Castings Company, Cleveland, Ohio. Mold. No. 1,308,156; July 1; v. 264; p. 27.
- Amlie, Paul W., Binford, N. D. Game apparatus. No. 1,325,921; Dec. 23; v. 269; p. 630.
- Amlung, George C., Buckhannon, W. Va. Toy. No. 1,290,034; Jan. 7; v. 258; p. 5.
- Ammann, Henry A., assignor to Diamond Individual Towel System Co., Spokane, Wash. Individual-towel cabinet. No. 1,302,753; May 6; v. 262; p. 51.
- Ammen, Francis D. (See Howard and Ammen.)
- Ammertorp, Carl, Copenhagen, Denmark. Electric candle. No. 1,306,990; June 17; v. 263; p. 393.
- Ammon, Charles D., David City, Nebr. Automobile dumping-body. No. 1,323,670; Dec. 2; v. 269; p. 83.
- Ammons, Troy T., Lumpkin, Ga. Hulling-machine. No. 1,326,164; Dec. 30; v. 269; p. 712.
- Amon, Blas, East Pittsburgh, Pa. Portable sawing-machine. No. 1,294,368; Feb. 18; v. 259; p. 391.
- Ammons, Gilbert, Minneapolis, Minn. Explosive-engine. No. 1,318,471; Oct. 14; v. 267; p. 216.
- Amos, Abraham L., South Bend, Ind. Swage attachment for anvils. No. 1,300,324; Apr. 15; v. 261; p. 438.
- Amos, Frank, assignor to Wheeling Tile Company, Wheeling, W. Va. Insulator. No. 1,311,483; July 29; v. 264; p. 771.
- Amphion Piano Player Company, The. (See Doman, Lewis B., assignor.)
- Amsden, George A., Littleton, assignor to The Lamson Company, Boston, Mass. Cash-carrier. No. 1,303,811; May 13; v. 262; p. 277.
- Amsler, Alfred, Rheinbühl, Schaffhausen, Switzerland. Spring-wheel. No. 1,295,082; Feb. 18; v. 259; p. 556.
- Amsler, Walter O., Edgewood, Pa. Hot-blast stove. No. 1,319,985; Oct. 28; v. 267; p. 552.
- Amstalden, William L., Coloma, Calif. Adjustable window-shade. No. 1,302,491; May 6; v. 262; p. 3.
- Anable, Clarence E. (See Miller, Arthur E., assignor.)
- Anable, Clarence E., Sacramento, Calif. Serving apparatus. No. 1,299,413; Apr. 8; v. 261; p. 209.
- Anable, Clarence E., Sacramento, Calif. Permutation-lock. No. 1,312,938; Aug. 12; v. 265; p. 237.
- Anable, Clarence E., Sacramento, Calif. Permutation-padlock. No. 1,312,939; Aug. 12; v. 265; p. 237.
- Anable, Clarence E., Sacramento, Calif. Combination-lock. No. 1,312,940; Aug. 12; v. 265; p. 238.
- Anaconda Copper Mining Company. (See Finlay, John S., assignor.)
- Anaconda Copper Mining Company. (See Laist, Frick, and Oliver, assignors.)
- Anagnostopoulos, Theodore D. (See Theodore, Anostopoulou D.)
- Anagnostopoulos, Theodore D., Eunice, La. Wrench. No. 1,324,780; Dec. 16; v. 269; p. 402.
- Anagnostopoulos, Theodore D., Eunice, La. Key-ring holder. No. 1,326,011; Dec. 23; v. 269; p. 646.
- Anagnostopoulos, Theodore D., Eunice, La. Blank for forming ornamental objects. No. 1,326,162; Dec. 30; v. 269; p. 711.
- Ananian, Hohannis A., Paterson, N. J. Toy. No. 1,299,534; Apr. 8; v. 261; p. 237.
- Anathor-Henriksen, Henrik, Kristiansand, Norway. Packing. No. 1,324,775; Dec. 16; v. 269; p. 401.
- Anclersen, Martin A., Klosterlund, per Engesvang, Denmark. Machine for forming peat fuel-blocks. No. 1,294,218; Feb. 11; v. 259; p. 322.
- Anchor Cap & Closure Corporation. (See Townsend, Harry E., assignor.)
- Anchor Company. (See Rowman, Thomas B., assignor.)
- Anchorstar, Anna M., New York, N. Y. Attachment for corsets. No. 1,308,025; July 1; v. 264; p. 3.
- Ancotti, Russell, West Springfield, and P. G. Martone, Springfield, Mass. Circuit-breaker or cut-out. No. 1,310,111; July 15; v. 264; p. 453.
- Anderberg, Albert L., et al. (See Anderberg, Thomas E., assignor.)
- Anderberg, Thomas E., Sandy, assignor of one-third to W. W. Moore and one-third to A. L. Anderberg, Salt Lake City, Utah. Automatic draft-regulator. No. 1,307,950; June 24; v. 263; p. 601.
- Anderfuhren, Louis, Baltimore, Md. Pneumatic-tire signal. No. 1,323,807; Dec. 2; v. 269; p. 109.
- Andersen, Albert, assignor to Automatic Electric Company, Chicago, Ill. Telephone system. No. 1,295,096; Feb. 25; v. 259; p. 583.
- Andersen, Charles, Cherry Patch, Mont. Calf-muzzle. No. 1,326,823; Dec. 30; v. 269; p. 836.
- Andersen, Fridtjov, Dröbak, near Christiania, Norway. Device for automatically controlling the moving of heavy objects. No. 1,293,296; Feb. 4; v. 259; p. 76.
- Andersen, Johan M., assignor to Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Time-circuit controller. No. 1,299,812; Apr. 8; v. 261; p. 301.
- Andersen, Laurids C. (See Bache and Andersen.)
- Andersen, Lauritz W., Waterbury, Conn. Shade holder or support. No. 1,305,985; June 10; v. 263; p. 173.
- Andersen, Peter C., Racine, Wis. Stone-crusher. No. 1,298,153; Mar. 25; v. 260; p. 604.
- Andersen, Yens P., De Kalb, Ill. Water-heater. No. 1,319,555; Oct. 21; v. 267; p. 448.
- Anderson, Abraham. (See Nord and Anderson.)
- Anderson, Albin, assignor of one-half to E. Moberg, Rockford, Ill. Internal-combustion-engine valve. No. 1,314,457; Aug. 26; v. 265; p. 577.
- Anderson, Albin J., Kings Park, N. Y. Eaves-trough hanger. No. 1,313,044; Aug. 12; v. 265; p. 259.
- Anderson, Alexander P., Chicago, Ill. Closure. No. 1,299,651; Apr. 8; v. 261; p. 263.
- Anderson, Alfred. (See Ross and Anderson.)
- Anderson, Alfred, Quincy, Ill. Dust-arrester and the like. No. 1,303,008; May 6; v. 262; p. 101.
- Anderson, Alfred E., and H. Felden, Rockford, Ill. Davenport or chair. No. 1,295,411; Feb. 25; v. 259; p. 655.
- Anderson, Allan L., Gorton, and R. Anderson, Manchester, England. Clamp for bracing wires or cables of aircraft and other structures. No. 1,301,634; Apr. 22; v. 261; p. 742.
- Anderson, Ami M., administrator. (See Wilson, John B.)
- Anderson, Andrew B., and J. L. Petersen, Lake Mills, Iowa. Hay-rack bed-piece. No. 1,307,841; June 24; v. 263; p. 581.
- Anderson, Andrew J. (See Garrison, Harry E., assignor.)
- Anderson, Andrew M., and N. T. Norbeck, Bridgeport, Conn. Picture-hanger. No. 1,323,808; Dec. 2; v. 269; p. 110.
- Anderson, Andy, Hobart, Okla. Valve-lifter. No. 1,318,344; Oct. 14; v. 267; p. 191.
- Anderson, Anton J., Hopkins, Minn. Potato-planter. No. 1,299,652; Apr. 8; v. 261; p. 264.
- Anderson, Anton T., Chicago, Ill. Wrench. No. 1,309,311; July 8; v. 264; p. 269.
- Anderson, Arthur J., Binford, N. D. Demountable rim for motor-vehicles. No. 1,315,199; Sept. 9; v. 266; p. 143.



- Anderson, Arthur T., Champaign, Ill. Controlling device. No. 1,310,318; July 15; v. 264; p. 490.
- Anderson, August, Berkeley, Calif. Massaging implement. No. 1,313,448; Aug. 19; v. 265; p. 352.
- Anderson, August, Berkeley, Calif. Toy. No. 1,322,217; Nov. 18; v. 268; p. 464.
- Anderson, August P., Chicago, Ill. Refrigerating apparatus. No. 1,307,431; June 24; v. 263; p. 507.
- Anderson, Axel, Clifton, N. J. Shears. No. 1,299,100; Apr. 1; v. 261; p. 111.
- Anderson, Axel P., assignor to The New Departure Manufacturing Company, Bristol, Conn. Sheet-metal article. No. 1,299,415; Apr. 8; v. 261; p. 209.
- Anderson-Barngrover Mfg. Co. (See Baker, John S., assignor.)
- Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
- Anderson, Carl, Brooklyn, N. Y. Mine-detonator. No. 1,295,097; Feb. 25; v. 259; p. 583.
- Anderson, Carl, and E. H. Westling, San Francisco, Cal. Separating tungsten compounds from substances. No. 1,292,559; Jan. 28; v. 258; p. 687.
- Anderson, Carl E., Worcester, Mass. Lock. (Reissue.) No. 1,474,1; Oct. 28; v. 267; p. 623.
- Anderson, Carl E., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Latch. No. 1,298,272; Mar. 25; v. 260; p. 631.
- Anderson, Carl F., Chicago, Ill. Machine for making filing-folders. No. 1,325,771; Dec. 23; v. 269; p. 602.
- Anderson, Carl J., Chicago, Ill. Motor-starting device. No. 1,318,345; Oct. 14; v. 267; p. 191.
- Anderson, Carl M. (See Bryan and Anderson.)
- Anderson, Carl O., Springfield, Ill. Attachment for milking apparatus. No. 1,301,992; Apr. 29; v. 261; p. 843.
- Anderson, Carl O., Springfield, Ill. Cow-milking machine. No. 1,316,072; Sept. 16; v. 266; p. 315.
- Anderson, Carl O., Springfield, assignor to Montgomery Ward & Co., Inc., Chicago, Ill. Cream-separator bowl. No. 1,322,745; Nov. 25; v. 268; p. 615.
- Anderson, Carl O. S., Long Island, N. Y. Music-sheet for playing instruments. No. 1,321,076; Nov. 11; v. 268; p. 199.
- Anderson, Carl P., Jamestown, N. Y. Gas-heater. No. 1,313,045; Aug. 12; v. 265; p. 259.
- Anderson, Carl P., Everett, assignor, by mesne assignments, to G. H. Kimball, Chelsea, Mass. Composition for architectural finish. No. 1,290,035; Jan. 7; v. 258; p. 5.
- Anderson, Charles A., Chicago, Ill. Pump or engine construction. No. 1,326,889; Dec. 30; v. 269; p. 848.
- Anderson, Charles C., Fairfield, Iowa. Metallic packing. No. 1,320,307; Oct. 28; v. 267; p. 612.
- Anderson, Charles M., Waterloo, Iowa. Teat-cup for milking-machines. No. 1,312,941; Aug. 12; v. 265; p. 238.
- Anderson, Charles W., Brooklyn, N. Y. Stop-arm for hoist-elevators. No. 1,321,779; Nov. 11; v. 268; p. 332.
- Anderson, Charles W., Brooklyn, N. Y. Platform for hoist-elevators. No. 1,326,896; Dec. 30; v. 269; p. 850.
- Anderson, David M., Westwood, N. J., assignor to W. F. Hessel, New York, N. Y. Lamp holder and guard. No. 1,314,846; Sept. 2; v. 266; p. 69.
- Anderson, David W., Scottsville, assignor to United States Fuel Saving Equipments Corporation, Charlottesville, Va. Automatic heat-regulating and fuel-saving attachment for heaters of various kinds. No. 1,320,960; Nov. 4; v. 268; p. 114.
- Anderson, Edward G., and A. H. Graham, Portland, Oreg. Canvas-securing fastening-clamp for hatches of vessels. No. 1,312,496; Aug. 5; v. 265; p. 121.
- Anderson, Edwin C., assignor to The Buck's Stove & Range Company, St. Louis, Mo. Ash-spraying device for furnaces and boilers. No. 1,308,613; July 1; v. 264; p. 111.
- Anderson, Edwin C., assignor to The Buck's Stove & Range Company, St. Louis, Mo. Warm-air furnace. No. 1,323,809; Dec. 2; v. 269; p. 110.
- Anderson, Elder E., Minneapolis, Minn. Envelop-cutting machine. No. 1,313,244; Aug. 19; v. 265; p. 314.
- Anderson Electric Specialty Co. (See Anderson, Ernst G. K., assignor.)
- Anderson Electric Specialty Co. (See Grigsby, Bertram J., assignor.)
- Anderson Electric Specialty Company. (See Johnson, John A., assignor.)
- Anderson, Ella L., Indianapolis, Ind. Kettle. No. 1,326,628; Dec. 30; v. 269; p. 799.
- Anderson, Emil, Yonkers, N. Y. Exhaust-gas turbine and silencer. No. 1,304,928; May 27; v. 262; p. 563.
- Anderson, Emil C., Denver, Colo. Grease-cup. No. 1,300,099; Apr. 8; v. 261; p. 363.
- Anderson, Emil C., Denver, Colo. Lock-bolt. No. 1,308,026; July 1; v. 264; p. 4.
- Anderson, Erick L., et al. (See Nelson, Hjalmer A., assignor.)
- Anderson, Ernest D., New York, N. Y. Machine for packing articles. No. 1,313,974; Aug. 26; v. 265; p. 485.
- Anderson, Ernest D., New York, N. Y. Multiple-cartoning machine. No. 1,313,975; Aug. 26; v. 265; p. 485.
- Anderson, Ernest D., Long Beach, N. Y., assignor to Passaic Metal Ware Company, Passaic, N. J. Can forming and heading machine. No. 1,315,000; Sept. 2; v. 266; p. 97.
- Anderson, Ernest D., assignor to E. D. Anderson, Inc., New York, N. Y. Machine for making adhesive tapers. No. 1,318,714; Oct. 14; v. 267; p. 262.
- Anderson, Ernest D., assignor to E. D. Anderson, Inc., New York, N. Y. Labeling-machine. No. 1,318,715; Oct. 14; v. 267; p. 262.
- Anderson, Ernest G. K. (See Benjamin and Anderson.)
- Anderson, Ernst G. K., assignor to Anderson Electric Specialty Co., Chicago, Ill. Extension-lamp. No. 1,309,678; July 15; v. 264; p. 374.
- Anderson, Ernst G. K., assignor to Anderson Electric Specialty Co., Chicago, Ill. Spot-lamp. No. 1,309,714; July 15; v. 264; p. 381.
- Anderson, Ernst G. K., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric switch. No. 1,312,380; Aug. 5; v. 265; p. 98.
- Anderson, Evald, assignor to International Precipitation Company, Los Angeles, Calif. Leaching process for cement-kiln dust. No. 1,298,154; Mar. 25; v. 260; p. 605.
- Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Reversible and adjustable switch-stand crank. No. 1,320,522; Nov. 4; v. 268; p. 31.
- Anderson, Frank P., Cincinnati, Ohio. Sash-control mechanism. No. 1,319,317; Oct. 21; v. 267; p. 403.
- Anderson, Fred E., and D. S. Erickson, Osage, Kans.; said Anderson assignor to said Erickson. Vulcanizing-mold for tire-casings. No. 1,317,904; Oct. 7; v. 267; p. 46.
- Anderson, Frederick V., assignor to The V. D. Anderson Company, Cleveland, Ohio. Expeller or press. No. 1,321,273; Nov. 11; v. 268; p. 236.
- Anderson, Frederick V., assignor to The V. D. Anderson Company, Cleveland, Ohio. Press. No. 1,321,351; Nov. 11; v. 268; p. 251.
- Anderson, Fritz A., assignor to Burdick Cabinet Co., Milton, Wis. Therapeutic apparatus. No. 1,290,036; Jan. 7; v. 258; p. 5.
- Anderson, George. (See Bullock and Anderson.)
- Anderson, George, Weyerhaeuser, Wis. Curtain-rod and shade-roller hanger. No. 1,303,812; May 13; v. 262; p. 277.
- Anderson, George E., Dayton, Ohio. Automatic valve-control for hard and soft water systems. No. 1,290,037; Jan. 7; v. 258; p. 6.
- Anderson, George G. (See Koken and Anderson.)
- Anderson, George M., Washington, D. C. Rubber heel. No. 1,290,693; Jan. 7; v. 258; p. 165.
- Anderson, George W., Calexico, Calif. Caterpillar-bumper. No. 1,319,260; Oct. 21; v. 267; p. 392.
- Anderson, Gideon, assignor to W. West, New York, N. Y. Tilting table. No. 1,299,894; Apr. 8; v. 261; p. 319.
- Anderson, Gilbert V., assignor of one-half to W. F. Fischer, Philadelphia, Pa. Internal-combustion engine. No. 1,299,895; Apr. 8; v. 261; p. 319.
- Anderson, Gustaf, Atlán, British Columbia, Canada. Saw-fitting device. No. 1,290,038; Jan. 7; v. 258; p. 6.
- Anderson, Gustaf, Seattle, Wash. Saw-fitting tool. No. 1,314,729; Sept. 2; v. 266; p. 48.
- Anderson, Gustaf, Stockholm, Sweden. Pneumatic rock-drilling machine. No. 1,326,825; Dec. 30; v. 269; p. 837.
- Anderson, Gustaf, assignor of one-half to S. P. Seaberg, Spokane, Wash. Peavey. No. 1,290,039; Jan. 7; v. 258; p. 6.
- Anderson, Gustav R., Long Island, N. Y. Vending-machine. No. 1,313,046; Aug. 12; v. 265; p. 259.
- Anderson, Harry, and J. F. Kane, Chicago, Ill. Clamping device for paper-hangers' outfits. No. 1,313,047; Aug. 12; v. 265; p. 259.
- Anderson, Henry R. W., et al., executors. (See Thomas and Davies.)
- Anderson, Herman C. (See Verner, James F., assignor.)
- Anderson, Hjalmar A., Garfield township, Sioux county, Iowa. Dead-bird decoy-holder. No. 1,299,896; Apr. 8; v. 261; p. 319.
- Anderson, Hjaltil S., Cypress River, Manitoba, Canada. Sheaf-shocker. No. 1,311,484; July 29; v. 264; p. 771.
- Anderson, Homer, Peekskill, N. Y. Spark-indicator. No. 1,306,844; June 17; v. 263; p. 366.
- Anderson, Ivar B., Darwin, Minn. Vehicle body and top. No. 1,292,220; Jan. 21; v. 258; p. 585.
- Anderson, Ivar B., Darwin, Minn. Vehicle-body. No. 1,317,410; Sept. 30; v. 266; p. 652.
- Anderson, James, Victoria, British Columbia, Canada. Gate. No. 1,296,034; Mar. 4; v. 260; p. 50.
- Anderson, James B., Shaler township, Allegheny county, Pa. Cutting-torch. No. 1,297,053; Mar. 11; v. 260; p. 315.
- Anderson, James B., Shaler township, Allegheny county, Pa. Oil-burner. No. 1,306,458; June 10; v. 263; p. 263.
- Anderson, James C., Rutherford, N. J., assignor to Varley Duplex Magnet Company. Winding-machine. No. 1,302,121; Apr. 29; v. 261; p. 867.
- Anderson, James R., Lonaconing, Md. Automatic door-alarm. No. 1,304,243; May 20; v. 262; p. 394.
- Anderson, Jeff, Atlanta, Tex. Stalk puller and chopper. No. 1,311,201; July 29; v. 264; p. 718.
- Anderson, Jerry A., Batavia, Ill. Machine for manufacturing tank-bottoms. No. 1,311,306; July 29; v. 264; p. 737.



## Alphabetical list of patentees—Continued.

- Anderson, John, Duluth, Minn. Automatic damper. No. 1,311,202; July 29; v. 264; p. 718.
- Anderson, John, Garfield township, Clay county, Kans. Mud-chain coupling. No. 1,314,114; Aug. 26; v. 265; p. 511.
- Anderson, John, and F. Bergendorf, Philadelphia, Pa. Mechanical can-opener. No. 1,326,707; Dec. 30; v. 269; p. 814.
- Anderson, John A., Geneseo, Ill. Lathe-tool. No. 1,290,040; Jan. 7; v. 258; p. 6.
- Anderson, John A., New Britain, Conn. Dry-mash feeder. No. 1,322,218; Nov. 18; v. 268; p. 465.
- Anderson, John C., Eureka, Calif. Gasolene-dispenser. No. 1,325,603; Dec. 23; v. 269; p. 571.
- Anderson, John E., Rockford, Ill. Tool-handle. No. 1,301,802; Apr. 29; v. 261; p. 807.
- Anderson, John L., assignor of one-half to B. W. J. Wofford, Italy, Tex. Elevating-truck. No. 1,312,089; Aug. 5; v. 265; p. 44.
- Anderson, John L., Italy, assignor of one-third to B. W. J. Wofford, Corsicana, one-third to R. P. Wofford, Dallas county, one-sixth to T. C. Hall, Bell county, and one-sixth to R. W. Cain, Ellis county, Tex. Elevating-truck. No. 1,321,780; Nov. 11; v. 268; p. 332.
- Anderson, John N., Madison, Wis. Roof-bracket. No. 1,301,533; Apr. 22; v. 261; p. 724.
- Anderson, John S., Marble township, Lincoln county, Minn. Trap. No. 1,305,333; June 3; v. 263; p. 19.
- Anderson, John W. (See Tideman and Anderson.)
- Anderson, John W., Groton, Conn., assignor to Electric Boat Company. Submarine boat. No. 1,291,355; Jan. 14; v. 258; p. 343.
- Anderson, John W., Groton, Conn., assignor to Electric Boat Company. Steam-condensing system. No. 1,294,372; Feb. 18; v. 259; p. 392.
- Anderson, John W., New London, Conn., assignor to Electric Boat Company. Hinged funnel. No. 1,309,055; July 8; v. 264; p. 223.
- Anderson, Joseph, Harrisville, Mich. Cream-separator strainer. No. 1,293,297; Feb. 4; v. 259; p. 76.
- Anderson, Joseph E., Coscob, Conn. Train-control system. No. 1,303,227; May 13; v. 262; p. 171.
- Anderson, Josiah, Minneapolis, Minn. Lubricating-oil heater. No. 1,294,022; Feb. 11; v. 259; p. 275.
- Anderson, Karl G., Seattle, Wash. Automobile-jack. No. 1,323,997; Dec. 2; v. 269; p. 146.
- Anderson, Lars J., Grantsburg, Wis. Hose-repair device. No. 1,290,041; Jan. 7; v. 258; p. 6.
- Anderson, Lewis, assignor of one-half to L. Tittle, Hemlock, Oreg. Log-splitting machine. No. 1,304,528; May 27; v. 262; p. 489.
- Anderson, Magnus, Atlanta, Ga. Bag-turning machine. No. 1,320,961; Nov. 4; v. 268; p. 114.
- Anderson, Martin, Sandy, Utah. Gate-closing device. No. 1,319,554; Oct. 21; v. 267; p. 448.
- Anderson, Martin J., Warren, Minn. Weed-destroyer. No. 1,296,153; Mar. 4; v. 260; p. 78.
- Anderson, Mary A. (See Anderson, Walter E. and M. A.)
- Anderson, Nels A., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Tympan-clamp. No. 1,295,098; Feb. 25; v. 259; p. 584.
- Anderson, Nels A., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Sheet-register. No. 1,300,235; Apr. 15; v. 261; p. 419.
- Anderson, Nels P., Robbinsdale, Minn. Plant protector and forcer. No. 1,290,478; Jan. 7; v. 258; p. 113.
- Anderson, Nils H., Bridgeport, Conn. Tapping-machine. No. 1,302,271; Apr. 29; v. 261; p. 895.
- Anderson, Nils H., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,312,820; Aug. 12; v. 265; p. 215.
- Anderson, Nils H., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,312,821; Aug. 12; v. 265; p. 215.
- Anderson, Nils H., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,317,411; Sept. 30; v. 266; p. 652.
- Anderson, Norman, Duluth, Minn. Meter-actuated cut-off device. No. 1,301,781; Apr. 22; v. 261; p. 773.
- Anderson, Olof, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiple-spindle turret-machine. No. 1,297,983; Mar. 25; v. 260; p. 569.
- Anderson, Olof B. (See Webb and Anderson.)
- Anderson, Olof E., Jr., Astoria, Oreg. Powder-container. No. 1,294,596; Feb. 18; v. 259; p. 444.
- Anderson, Oscar, Råsunda, Sweden. Control-switch for electrically-operated measuring apparatus. No. 1,292,221; Jan. 21; v. 258; p. 585.
- Anderson, Oscar T., Waterloo, Iowa. Oxyacetylene-blow-pipe. No. 1,299,535; Apr. 8; v. 261; p. 237.
- Anderson, Otis W., assignor of twenty one-hundredths to H. T. Shepherd, twenty one-hundredths to N. J. Tiedemann, and twenty one-hundredths to W. W. Holman, Waterloo, Iowa. Composition gutter. No. 1,313,154; Aug. 12; v. 265; p. 281.
- Anderson, Pahr, Cambridge, Mass., assignor to Dover Stamping & Manufacturing Company, Portland, Me. Safety-can. No. 1,312,822; Aug. 12; v. 265; p. 215.
- Anderson, Peter M., Washington, D. C., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Recording instrument. No. 1,314,179; Aug. 26; v. 265; p. 523.
- Anderson, Raymond M., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,311,307; July 29; v. 264; p. 737.
- Anderson, Robert. (See Anderson, Allan L. and R.)
- Anderson, Robert H., Edinburgh, Scotland, and J. H. Thomas, Ipswich, England. Two-stroke-cycle internal-combustion engine. No. 1,315,176; Sept. 2; v. 266; p. 128.
- Anderson, Rose V., et al. (See Jones, Jacob, assignor.)
- Anderson, Samuel. (See Famoso and Anderson.)
- Anderson, Samuel R., assignor of one-third to F. A. Long, Hardin, Ill. Cultivator. No. 1,295,253; Feb. 25; v. 259; p. 619.
- Anderson, Sigfred, Windber, Pa. Automatic train-stopping mechanism. No. 1,306,731; June 17; v. 263; p. 345.
- Anderson, Sigfred, Windber, Pa. Trip device. No. 1,306,732; June 17; v. 263; p. 345.
- Anderson, Swan, Minneapolis, Minn. Steam-generator. No. 1,318,825; Oct. 14; v. 267; p. 283.
- Anderson, Sven G. M., Chicago, Ill. Combination-boiler. No. 1,291,708; Jan. 21; v. 258; p. 457.
- Anderson, Tom D., San Jose, Calif. Collapsible cot-inclosure. No. 1,321,352; Nov. 11; v. 268; p. 251.
- Anderson, Verner G. (See Tideman, Carl E., assignor.)
- Anderson, Walter E. and M. A., Banksville, Pa. Spoon-holder. No. 1,306,677; June 10; v. 263; p. 303.
- Anderson, William B., West Brighton, N. Y. Bell-buoy. No. 1,299,101; Apr. 1; v. 261; p. 111.
- Anderson, William C., Brunswick, Ga. Ash-sifter. No. 1,326,824; Dec. 30; v. 269; p. 837.
- Anderson, William E., et al. (See Feltz, Charles F., assignor.)
- Anderson, William G., Whitehead, Ireland. Toy building-blocks. No. 1,298,855; Apr. 1; v. 261; p. 55.
- Anderson, William J., Hyde, England. Hat shield or pad. No. 1,325,664; Dec. 23; v. 269; p. 583.
- Anderson, William P., N. C. Clarke, and J. F. Whitelaw, Birmingham, England. Quick-locking device. No. 1,312,942; Aug. 12; v. 265; p. 238.
- Andersson, Gustaf, Stockholm, Sweden. Rock-drilling machine. No. 1,300,100; Apr. 8; v. 261; p. 364.
- Andersson, Victor O. J., Malmö, Sweden. Calculating-machine. No. 1,309,872; July 15; v. 264; p. 410.
- Andersson, Victor O. J., Malmö, Sweden. Calculating-machine. No. 1,310,852; July 22; v. 264; p. 621.
- Andervwert, Eugen, H. Fritzschke, and H. Schobel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Copper compound of substantive orthooxyazo dyestuff and making same. No. 1,292,385; Jan. 21; v. 258; p. 624.
- Andre, Floyd S., Montrose, Pa. Leaf-spring. No. 1,290,864; Jan. 14; v. 258; p. 229.
- Andreas, Frederick. (See Herrenbruck and Andreas.)
- Andreas, H. M. (See North, George W., assignor.)
- Andreas, H. S., et al. (See Dingwell, Ruel, assignor.)
- Andreau, Roland L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing synthetic camphor. No. 1,313,661; Aug. 19; v. 265; p. 391.
- Andreau, Roland L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Changing isoborneol into camphor. No. 1,324,140; Dec. 9; v. 269; p. 217.
- Andreau, Roland L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of synthetic camphor. No. 1,326,248; Dec. 30; v. 269; p. 728.
- Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Garment-press. No. 1,311,151; July 29; v. 264; p. 709.
- Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio. Kick-off device for garment-presses. No. 1,311,546; July 29; v. 264; p. 783.
- Andren, Fritz L., Chicago, Ill. Wire-colling machine. No. 1,295,835; Mar. 4; v. 260; p. 3.
- Andreotta, Prospero, Brooklyn, N. Y. Mechanism for operating locking windows. No. 1,292,222; Jan. 21; v. 258; p. 586.
- Andres, Frank E. (See Jefferson, Daniel H., assignor.)
- Andres, John R., Ballston Spa, N. Y. Fabric for spring-beds. No. 1,305,986; June 10; v. 263; p. 173.
- Andres, John F., Los Angeles, Calif. Thermostatic control for electric batteries of automobiles, &c. No. 1,314,629; Sept. 2; v. 266; p. 29.
- Andresen, Herman P., Chicago, Ill. Sign. No. 1,316,756; Sept. 23; v. 266; p. 494.
- Andresen, Viggo V. J., Copenhagen, Denmark. Making dental cements. No. 1,310,901; July 22; v. 264; p. 629.
- Andresen, Viggo V. J., Copenhagen, Denmark. Dental preparation and making the same. No. 1,318,254; Oct. 7; v. 267; p. 114.
- Andresiak, Theodore T., South Bend, Ind. Adjustable drawing-board bracket. No. 1,320,439; Nov. 4; v. 268; p. 16.
- Andress, William, and C. F. Neumann, New York, N. Y. Curtain-hanger. No. 1,321,800; Nov. 18; v. 268; p. 387.
- Andreu, Rafael, New York, N. Y. Means for propelling marine vessels. No. 1,296,352; Mar. 4; v. 260; p. 121.
- Andrew A., Kramer. (See Hall, Lel, assignor.)



## Alphabetical list of patentees—Continued.

- Andrew Hoffman Manufacturing Co. (See Sebastian, Alphonse A., assignor.)
- Andrew, Tom, Heaton Moor, near Stockport, England. Liquid sprayer or atomizer. No. 1,294,373; Feb. 18; v. 259; p. 392.
- Andrew, Tom, Manchester, England. Conditioning and drying machine. No. 1,303,009; May 6; v. 262; p. 101.
- Andrew, William E., Atlantic Highlands, N. J. Chair. No. 1,297,431; Mar. 18; v. 260; p. 425.
- Andrew, William E., Atlantic Highlands, N. J. Spring structure. No. 1,325,604; Dec. 23; v. 269; p. 571.
- Andrew's Mill Company. (See Long, Charles J., assignor.)
- Andrews, Admiral L., Virginia City, Nev. Trousers hanger and presser. No. 1,317,412; Sept. 30; v. 266; p. 652.
- Andrews, Arthur B., assignor of one-half to himself and one-half to H. F. Kelley, Auburn, Me. Extracting potash and the like. No. 1,296,035; Mar. 4; v. 260; p. 50.
- Andrews, Benjamin, Houston, Tex., and W. C. Averill, Jr., Meraux, La. Apparatus for treating hydrocarbons. No. 1,312,467; Aug. 5; v. 265; p. 115.
- Andrews, Benjamin, Houston, Tex. Deep-well pump. No. 1,313,245; Aug. 19; v. 265; p. 314.
- Andrews, Benjamin, Houston, Tex., and W. C. Averill, Jr., Meraux, La. Apparatus for treating petroleum. No. 1,319,828; Oct. 28; v. 267; p. 523.
- Andrews, Bernard R., Newton, Mass. Ventilator. No. 1,306,845; June 17; v. 263; p. 366.
- Andrews, Charles B., assignor to Taylor Wharton Iron and Steel Company, High Bridge, N. J. Gyrotory crusher-head. No. 1,303,447; May 13; v. 262; p. 210.
- Andrews, Charles B., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Centrifugal pump runner. No. 1,320,031; Oct. 28; v. 267; p. 561.
- Andrews, Charles E. (See McNabney and Andrews.)
- Andrews, Charles F., *et al.* (See Cruthers, Ellery M., assignor.)
- Andrews, Chester E., Pittsburgh, Pa. Synthetic manufacture of thymol. No. 1,306,512; June 10; v. 263; p. 273.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Treating cymene. No. 1,314,920; Sept. 2; v. 266; p. 82.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Cymene dyestuff and making same. No. 1,314,921; Sept. 2; v. 266; p. 82.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Cymene dye. No. 1,314,922; Sept. 2; v. 266; p. 82.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. 1-methyl-2-amino-4-isopropyl-5-nitrobenzene. No. 1,314,923; Sept. 2; v. 266; p. 83.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Dimethyl-diisopropyl-benzidin and making same. No. 1,314,924; Sept. 2; v. 266; p. 83.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Dimethyl-diisopropyl-benzidin azo dyestuffs and making same. No. 1,314,925; Sept. 2; v. 266; p. 83.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Dimethyl-diisopropyl-benzidin azo dyes and making same. No. 1,314,926; Sept. 2; v. 266; p. 83.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Methyl-amino-isopropyl-benzene-sulfonic acid and making same. No. 1,314,927; Sept. 2; v. 266; p. 83.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Sulfur dyes and making same. No. 1,314,928; Sept. 2; v. 266; p. 83.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Green sulfur dye and making same. No. 1,314,929; Sept. 2; v. 266; p. 83.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Oxidation of aromatic bodies. No. 1,324,715; Dec. 9; v. 269; p. 327.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Purification of crude anthraquinone. No. 1,324,716; Dec. 9; v. 269; p. 327.
- Andrews, Chester E., assignor to The Selden Company, Pittsburgh, Pa. Treatment of anthracene press-cake. No. 1,324,717; Dec. 9; v. 269; p. 327.
- Andrews, Cyrus N., Yucaipa, Calif. Audiopicon. No. 1,311,433; July 29; v. 264; p. 761.
- Andrews, George C., Minneapolis, Minn. Driving-gear for traction-wheels. No. 1,311,943; Aug. 5; v. 265; p. 17.
- Andrews, James A. (See Herbert and Andrews.)
- Andrews, James A., and J. W. Herbert, Biddeford, Me. Humidifier. No. 1,316,073; Sept. 16; v. 266; p. 315.
- Andrews, James M., assignor to Robert Gair Company, Brooklyn, N. Y. Machine for forming corrugated cartons. No. 1,314,115; Aug. 26; v. 265; p. 512.
- Andrews, Patrick P., Roanoke, Va. Screw-driver. No. 1,325,070; Dec. 16; v. 269; p. 454.
- Andrews, Roger W., assignor to Northern Equipment Company, Erie, Pa. Feeding water to boilers. No. 1,299,283; Apr. 1; v. 261; p. 252.
- Andrews, William C., assignor to H. A. Auer, Cleveland, Ohio. Rifling tool or head for rifling-machines. No. 1,294,750; Feb. 18; v. 259; p. 481.
- Andrews, William C., assignor to H. A. Auer, Cleveland, Ohio. Producing gun-barrels. No. 1,324,141; Dec. 9; v. 269; p. 217.
- Andrews, William C., assignor to H. A. Auer, Cleveland, Ohio. Producing gun-barrels. No. 1,324,289; Dec. 9; v. 269; p. 245.
- Andrist, Charles M., *et al.*, trustees. (See Chalmers, Charles H., assignor.)
- Andrix, Harry, Adrian, assignor of one-fourth to G. D. Harris and one-fourth to G. D. Harris, Jr., Royal Oak, Mich. Nut-lock. No. 1,320,962; Nov. 4; v. 268; p. 114.
- Andrus, George S., Akron, Ohio. Folding water-bag syringe. No. 1,294,219; Feb. 11; v. 259; p. 322.
- Andrusches, John A., Amsterdam, N. Y. Diaphragm-controlling attachment for cameras. No. 1,313,872; Aug. 26; v. 265; p. 465.
- Anell, Carl R., Worcester, Mass. Wave-motor. No. 1,292,223; Jan. 21; v. 258; p. 586.
- Angell, Chester M., assignor to Vesta Accumulator Company, Chicago, Ill. Battery-seal. No. 1,298,856; Apr. 1; v. 261; p. 55.
- Angell, Chester M., assignor to Vesta Accumulator Company, Chicago, Ill. Battery. No. 1,298,857; Apr. 1; v. 261; p. 55.
- Angell, Chester M., assignor to Vesta Accumulator Company, Chicago, Ill. Battery-vent. No. 1,301,993; Apr. 29; v. 261; p. 844.
- Angell, Chester M., assignor to Vesta Accumulator Company, Chicago, Ill. Accumulator-cell. No. 1,319,940; Oct. 28; v. 267; p. 544.
- Angell, Chester M., assignor to Vesta Accumulator Company, Chicago, Ill. Battery-cover connection. No. 1,319,941; Oct. 28; v. 267; p. 544.
- Angell, Edwin E., deceased; J. E. Macy, administrator, Boston, Mass., assignor to Todd Protectograph Company, Rochester, N. Y. Printing apparatus. No. 1,307,532; June 24; v. 263; p. 525.
- Angell, Fred P., Battle Creek, Mich. Door-check. No. 1,309,056; July 8; v. 264; p. 223.
- Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Edge-setting machine. No. 1,305,864; June 3; v. 263; p. 120.
- Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Bracket-table. No. 1,324,370; Dec. 9; v. 269; p. 261.
- Anger, Edward W., Chicago, Ill. Wear-plate for truck journal-boxes. No. 1,325,772; Dec. 23; v. 269; p. 602.
- Angier, Edward H. (See Wheildon, William M., assignor.)
- Angier, Edward H., Framingham, Mass. Baling. No. 1,311,367; July 29; v. 264; p. 749.
- Angier, Edward H., Framingham, Mass. Packing toric articles. No. 1,319,682; Oct. 28; v. 267; p. 495.
- Angier, Edward H., Framingham, and L. G. Miller, Cambridge, Mass., said Miller assignor to said Angier. Reinforced paper and making the same. No. 1,291,709; Jan. 21; v. 258; p. 457.
- Angiulli, Luigi, New York, N. Y. Signal apparatus. No. 1,323,517; Dec. 2; v. 269; p. 56.
- Angius, Steve J., *et al.* (See Arch, Charles J., assignor.)
- Angle, Edward H., Pasadena, Calif. Orthodontic implement. No. 1,299,102; Apr. 1; v. 261; p. 111.
- Angle, Edward H., Pasadena, Calif. Orthodontic implement. No. 1,299,103; Apr. 1; v. 261; p. 112.
- Angle, Edward H., Pasadena, Calif. Orthodontic appliance. No. 1,322,994; Nov. 25; v. 268; p. 662.
- Angle, Lloyd A., and J. P. Sager, assignors to Art in Buttons Incorporated, Rochester, N. Y. Button. No. 1,303,228; May 13; v. 262; p. 171.
- Angle, Philip E., Pittsburgh, Pa. Multiple-body truck. No. 1,290,694; Jan. 7; v. 258; p. 165.
- Anglo-American Textile Machinery Company. (See Jopson, William G., assignor.)
- Anglo-American Mill Company, The. (See Trefz, Julius J., assignor.)
- Angular Drill and Machine Corporation. (See Hathaway, Charles F., assignor.)
- Angulo, Alejandro, *et al.* (See Sanchez, Leonardo, assignor.)
- Angus, Charles H., East Haven, Conn. Adjustable roll-curtain fixture. No. 1,303,010; May 6; v. 262; p. 102.
- Angus, Donald J., Indianapolis, Ind. Power-factor meter. No. 1,318,126; Oct. 7; v. 267; p. 88.
- Angus, Donald J., assignor to Esterline & Angus, Indianapolis, Ind. Carbureter. No. 1,303,229; May 13; v. 262; p. 172.
- Anheuser, Ernst, Racine, Wis. Brush. No. 1,324,487; Dec. 9; v. 269; p. 284.
- Ania, Anthony, Corona, N. Y. Aeroplane. No. 1,312,300; Aug. 5; v. 265; p. 83.
- Anibal, Benjamin H., Detroit, Mich. Steering and control mechanism for motor-vehicles. No. 1,324,782; Dec. 16; v. 269; p. 402.
- Animated Picture Products Company. (See Saalburg, Charles W., assignor.)
- Ankele, Moritz A., Newark, Ohio. Poultry-brooder. No. 1,308,470; July 1; v. 264; p. 84.
- Anker Holth Manufacturing Company. (See Krenke, Otto, assignor.)
- Anklam, Otto. (See Wall and Anklam.)

## Alphabetical list of patentees—Continued.

- Annabie, Lee V., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,309,751; July 15; v. 264; p. 388.
- Annau, John, Baltimore, Md. Gas-burner. No. 1,316,668; Sept. 23; v. 266; p. 477.
- Annison, Richard H. (See Bull, John, assignor.)
- Anschutz & Co. (See Anschütz-Kaempfe, Hermann, assignor.)
- Anschütz-Kaempfe, Hermann, assignor to Anschutz & Co., Neumühlen, near Kiel, Germany. Boring-tool. No. 1,313,367; Aug. 19; v. 265; p. 336.
- Anschutz, Rudolph A., Spokane, Wash. Sharpening-machine. No. 1,306,733; June 17; v. 263; p. 346.
- Ansley, George W., Spokane, Wash. Hammer. No. 1,318,826; Oct. 14; v. 267; p. 283.
- Ansley H. Fox Co. (See Fox, Ansley H., assignor.)
- Ansley H. Fox Company. (See Fox and Rice, assignors.)
- Anson, Edson C., and H. E. Keim, Glenwillard, Pa. Automobile-signal. No. 1,303,754; May 13; v. 262; p. 266.
- Anthes, Garrison P., Evanston, Ill. Pump-oiler. No. 1,325,134; Dec. 16; v. 269; p. 467.
- Anthorn, John H., and C. H. Feldmann, Portland, Oreg. Auto speed-signaling device. No. 1,318,638; Oct. 14; v. 267; p. 248.
- Anthony, Alfred H., Colchester, England. Automatic regulator for boiler-feed apparatus. No. 1,290,865; Jan. 14; v. 258; p. 230.
- Anthony, Alfred H., Colchester, England. Float-valve for boiler-feed apparatus. No. 1,315,631; Sept. 9; v. 266; p. 223.
- Anthony, Daniel L., El Paso, Tex. Method of and means for inflating and introducing sealing liquid into pneumatic tires. No. 1,307,173; June 17; v. 263; p. 426.
- Anthony, Daniel L., El Paso, Tex. Means for injecting sealing liquid into tires. No. 1,322,507; Nov. 25; v. 268; p. 571.
- Anthony, David W., Minneapolis, Minn. Oil-dispensing machine. No. 1,303,145; May 6; v. 262; p. 127.
- Anthony, David W., Worthington, Minn. Oil-dispensing machine. No. 1,303,215; May 6; v. 262; p. 140.
- Anthony, Edgar G., New York, N. Y. Calendar. No. 1,324,330; Dec. 9; v. 269; p. 253.
- Anthony, Joseph W., Lynn, Mass. Leather-folding machine. No. 1,326,826; Dec. 30; v. 269; p. 837.
- Anthony, Joseph W., Lynn, Mass. Leather-folding machine. No. 1,326,827; Dec. 30; v. 269; p. 837.
- Anthony, Joseph W., Lynn, Mass. Leather-folding machine. No. 1,326,828; Dec. 30; v. 269; p. 837.
- Anthony Liquid Vending Machine Company. (See Brown, George A., assignor.)
- Anthony, Marcus O., Englewood, N. J. and J. E. O'Donnell, Brooklyn, assignors to A. Kimball Co., New York, N. Y. Pin-ticket machine. No. 1,292,224; Jan. 21; v. 258; p. 586.
- Anthony, Marcus O., Englewood, N. J., assignor to A. Kimball Company, New York, N. Y. Machine for pointing metallic articles by electrolytic action. No. 1,298,155; Mar. 25; v. 260; p. 605.
- Anthony, Marcus O., assignor to A. Kimball Company, New York, N. Y. Machine for pointing cylindrical articles. No. 1,322,508; Nov. 25; v. 268; p. 571.
- Anthony, Ralph W., Cedar Rapids, Iowa. Grate attachment. No. 1,306,940; June 17; v. 263; p. 384.
- Anthony, Stanley, Boston, Mass. Connector. No. 1,298,858; Apr. 1; v. 261; p. 55.
- Anthony, Stanley, Boston, Mass. Index. No. 1,298,859; Apr. 1; v. 261; p. 56.
- Anthony, Stanley, Boston, Mass. Hand-bag. No. 1,319,134; Oct. 21; v. 267; p. 367.
- Anthony, Stanley, Boston, Mass., assignor to Acme Card System Company, Chicago, Ill. Guide-card for card-index systems. No. 1,318,041; Oct. 7; v. 267; p. 72.
- Anthony, Thomas P., Edgewater Park, assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Core-bar puller. No. 1,304,142; May 20; v. 262; p. 374.
- Anthony, Thomas P., Edgewater Park, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Mold-drying process. No. 1,325,972; Dec. 23; v. 269; p. 639.
- Anthony, Wendell P., Ridley Park, Pa. Grass-trimming implement. No. 1,307,471; June 24; v. 263; p. 514.
- Anti-Friction Belt Dressing Company. (See Ryan, John, assignor.)
- Anteau, Richard, assignor of one-half to G. Bomva, River Rouge, Mich. Button device. No. 1,322,219; Nov. 18; v. 268; p. 465.
- Antigo Tractor Co. (See Stewart, David S., assignor.)
- Antis, Thomas W., East Pittsburgh, Pa. Belt-shifting mechanism. No. 1,313,155; Aug. 12; v. 265; p. 281.
- Antisell, Alfred B., assignor to H. B. Gibson Co., Inc., New York, N. Y. Agitator implement. No. 1,305,432; June 3; v. 263; p. 38.
- Antisell, Frank L., Perth Amboy, N. J. Electrolytic process and anode. No. 1,313,246; Aug. 19; v. 265; p. 314.
- Antoncich, Frederick A., Brooklyn, N. Y. Glass beveling and polishing apparatus. No. 1,309,792; July 15; v. 264; p. 395.
- Antoni, Guido and U., Pisa, Italy. Flying-machine. No. 1,317,413; Sept. 30; v. 266; p. 652.
- Antoni, Guido and U., Pisa, Italy. Flexible-rib frame for aeroplane-wings. No. 1,323,385; Dec. 2; v. 269; p. 31.
- Antoni, Ugo. (See Antoni, Guido and U.)
- Antonietti, Ferdinando, San Francisco, Calif. Coupling. No. 1,303,448; May 13; v. 262; p. 210.
- Antonietti, Ferdinando, San Francisco, Calif. Fire-hydrant and coupling therefor. No. 1,303,449; May 13; v. 262; p. 210.
- Antonoff, George N., London, England. Electric battery. No. 1,303,843; May 20; v. 262; p. 321.
- Antonoff, George N., London, England. Electric battery. No. 1,303,844; May 20; v. 262; p. 321.
- Auelink, John F., Sbayano, Wis. Pail cover and strainer. No. 1,312,428; Aug. 5; v. 265; p. 108.
- Anzelewitz, Abraham, assignor to Sussfeld, Lorsch & Company, New York, N. Y. Closing and locking attachment for tweezers, &c. No. 1,315,808; Sept. 9; v. 266; p. 252.
- Aoki, Shizutaro, Shimokyo Ku, Kyoto, assignor to T. Tokuhisa, Tokyo, Japan. Blotter. No. 1,320,596; Nov. 4; v. 268; p. 45.
- Aoughsten, Otto L. (See Aoughsten, Richard G. and O. L.)
- Aoughsten, Richard G. and O. L., Galveston, Tex. Shell. No. 1,302,272; Apr. 29; v. 261; p. 895.
- Apco Manufacturing Company. (See Wilson, Thomas F., assignor.)
- Apfel, Philip F., Seattle, Wash. Electric heater. No. 1,294,597; Feb. 18; v. 259; p. 445.
- Apfel, Philip F., Seattle, Wash. Electric heater. No. 1,309,873; July 15; v. 264; p. 410.
- Apgar, John M., Califton, N. J. Combined wagon stake and skid. No. 1,324,718; Dec. 9; v. 269; p. 327.
- Apgar, Milton P. (See Harsley and Apgar.)
- Apollo Magneto Company. (See Schmid and Fuegel, assignors.)
- App, Oliver O., New York, N. Y. Excavating-machine. No. 1,290,479; Jan. 7; v. 258; p. 113.
- App, Oliver O., New York, N. Y. Pneumatic implement. No. 1,319,034; Oct. 21; v. 267; p. 349.
- Appel, Alfred. (See La Marche and Appel.)
- Appel, Carl, South Pasadena, Calif. Rail-brace. No. 1,300,101; Apr. 8; v. 261; p. 364.
- Appel, Carl, South Pasadena, Calif. Rail-chair. No. 1,325,460; Dec. 16; v. 269; p. 526.
- Appel, Daniel, Cleveland Heights, Ohio. Internal-combustion engine. No. 1,311,944; Aug. 5; v. 265; p. 17.
- Appelbaum, Alan I., assignor to The Import and By Products Company, Incorporated, Trenton, N. J. Manufacturing benzaldehyde. No. 1,302,273; Apr. 29; v. 261; p. 895.
- Appelbaum, Isaac. (See Appelbaum, Joseph, assignor.)
- Appelbaum, Isaac, Philadelphia, Pa. Fabric-cutting machine. No. 1,310,853; July 22; v. 264; p. 621.
- Appelbaum, Joseph, assignor, by mesne assignments, to I. Appelbaum, Philadelphia, Pa. Fabric-cutting machine. No. 1,299,536; Apr. 8; v. 261; p. 237.
- Appelbee, Frank J., Montclair, N. J. Display-card for buttons and the like. No. 1,310,729; July 22; v. 264; p. 597.
- Appelberg, Carl W., Stockholm, Sweden. Device for pressing down the covers of preserving-jars of preserving apparatus. No. 1,322,080; Nov. 18; v. 268; p. 438.
- Appelgren, Knut. (See Gustafson and Appelgren.)
- Apple, Vincent G., Dayton, Ohio. License-plate bracket for automobiles. No. 1,312,295; Aug. 5; v. 265; p. 82.
- Apple, Vincent G., Dayton, Ohio. Shaft-coupling. No. 1,312,296; Aug. 5; v. 265; p. 82.
- Apple, Vincent G., Dayton, Ohio. Constructing armatures and the like for dynamo-electric machines. No. 1,315,936; Sept. 16; v. 266; p. 291.
- Apple, Vincent G., Dayton, Ohio. Phonograph-motor control. No. 1,316,552; Sept. 23; v. 266; p. 455.
- Apple, Vincent G., and J. G. King, Dayton, Ohio; said King assignor to said Apple. Contact member for vibrating current-controlling regulators. No. 1,302,622; May 6; v. 262; p. 27.
- Appleby, William H., Chicago, Ill. Latch. No. 1,304,244; May 20; v. 262; p. 394.
- Appleby, William H., Chicago, Ill. Lock-fitting. No. 1,304,245; May 20; v. 262; p. 394.
- Applegarth, Harold G., and H. B. Taylor, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,303,146; May 6; v. 262; p. 128.
- Applegate, Daniel H., Jr., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Base for supporting molded plastic articles. No. 1,324,535; Dec. 9; v. 269; p. 293.
- Applegate, Frank C., Philadelphia, Pa. Bottle-capping machine. No. 1,316,996; Sept. 23; v. 266; p. 537.
- Applegate, Harry S., Pasadena, Calif. Folding chair. No. 1,301,635; Apr. 22; v. 261; p. 742.
- Applegreen, Andrew H., Seattle, Wash. Paint composition. No. 1,314,301; Aug. 26; v. 265; p. 548.
- Appleton Electric Company. (See Bloomer, Harvey E., assignor.)
- Appleton, Henry J., Detroit, Mich. Annunciator. No. 1,311,634; July 29; v. 264; p. 798.



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- Appleton, Wallace N., Kent, assignor, by mesne assignments, to The National Chain Company, Marietta, Ohio. Chain-making machine. No. 1,291,712; Jan. 21; v. 258; p. 458.
- Appleyard, George L., Lawrence, Mass. Lubrication system for internal-combustion engines. No. 1,314,562; Sept. 2; v. 266; p. 17.
- Apsley Rubber Company. (See Brown, Perley H., assignor.)
- Araiza, Manuel, Victorville, Cal. Gearing for wind-motors. No. 1,292,225; Jan. 21; v. 258; p. 587.
- Araki, Susumu, assignor to Z. Akahoshi, Los Angeles, Calif. Automobile-lamp. No. 1,324,488; Dec. 9; v. 269; p. 284.
- Aranar Company, The. (See Roberts, Fred T., assignor.) (Reissue.)
- Arato, Achille, Turin, Italy. Short-turning gear for trailers. No. 1,294,859; Feb. 18; v. 259; p. 506.
- Arbess, Jacob, Montreal, Quebec, Canada. Comb-cleaner. No. 1,317,064; Sept. 23; v. 266; p. 530.
- Arbetter Felling Machine Company. (See Arbetter, Wolf, assignor.)
- Arbetter Felling Machine Company. (See Hayes, Thomas J., assignor.)
- Arbetter Felling Machine Company. (See Moulton, Harley C., assignor.)
- Arbetter, Wolf, Roxbury, assignor to Arbetter Felling Machine Company, Boston, Mass. Blindstitch sewing-machine. No. 1,322,510; Nov. 25; v. 263; p. 572.
- Arbogast, Walter H., Barborton, Ohio. Milk-bottle receptacle. No. 1,305,865; June 3; v. 263; p. 120.
- Arbuckle, Samuel F., Indianapolis, Ind. Self-lubricating piston. No. 1,294,023; Feb. 11; v. 259; p. 276.
- Arbuckle, Samuel F., Indianapolis, Ind. Internal-combustion-engine vacuum actuating means. No. 1,296,735; Mar. 11; v. 260; p. 243.
- Arbuckle, Samuel F., Indianapolis, Ind. Self-lubricating piston. (Reissue.) No. 1,4707; Aug. 19; v. 265; p. 431.
- Arcade Manufacturing Company. (See Morgan, Charles, assignor.)
- Arcade Manufacturing Company. (See Tscherning, Henry, assignor.)
- Arch, Charles J., assignor of one-fifth to V. S. Mimica, one-fifth to S. J. Angius, one-fifth to J. N. Marovich, and one-fifth to S. M. Perazich, Douglas, Ariz. Automatic twyer-cleaner for metallurgical converters. No. 1,303,755; May 13; v. 262; p. 266.
- Archbold, Joseph G., Monkseaton, England. Automatic coupling for railway and other vehicles. No. 1,309,057; July 8; v. 264; p. 223.
- Archbutt, Sydney L. (See Rosenhain and Archbutt.)
- Archer, Andrew, assignor of one-half to K. J. Whalen, West Rutland, Mass. Loom-shuttle. No. 1,300,102; Apr. 8; v. 261; p. 364.
- Archer, Arthur E., Fulwith Grange, near Harrogate, England. Forming and pricking sand-molds for castings. No. 1,300,103; Apr. 8; v. 261; p. 364.
- Archer, Charles E., and E. C. Humphreys, Detroit, Mich. Signal-lamp. No. 1,301,994; Apr. 29; v. 261; p. 844.
- Archer, Charles E., and E. C. Humphreys, Detroit, Mich. Signal-lamp. No. 1,309,392; July 8; v. 264; p. 283.
- Archer, Charles L., Des Moines, Iowa. Bomb. No. 1,321,699; Nov. 11; v. 268; p. 317.
- Archibald, James F. J., New York, N. Y., and G. A. Woodman, Chicago, Ill. Automobile-signal. No. 1,303,147; May 6; v. 262; p. 128.
- Arco Company, The. (See Seaton and Harris, assignors.)
- Arcus, James S., Chicago, Ill. Check holding and notching device. (Reissue.) No. 1,4584; Jan. 14; v. 258; p. 424.
- Arcus Ticket Co., The. (See Sawyer, Walter H., assignor.) (Reissue.)
- Ardagh, Edward G. R. (See Thorold, Ardagh and Bert-Gerrans.)
- Arduser, Chris, Coggon, Iowa. Tire-shoe. No. 1,316,757; Sept. 23; v. 266; p. 494.
- Arel, Noah A., Tulsa, Okla. Danger-signal. No. 1,300,104; Apr. 8; v. 261; p. 365.
- Arena, John B. (See Falconieri, Biagio, assignor.)
- Arenberg, Albert L., Chicago, Ill. Lighting unit. No. 1,302,492; May 6; v. 262; p. 3.
- Arenberg, Albert L., Chicago, Ill. Shade-holder. No. 1,302,493; May 6; v. 262; p. 3.
- Arenson, Abe, assignor of one-half to J. J. Cohen, Chicago, Ill. Ash-sifter. No. 1,297,054; Mar. 11; v. 260; p. 316.
- Arent, Arthur, Badger, and R. A. Kuever, Iowa City, Iowa, assignors, by direct and mesne assignments, to Arentox Company, Chicago, Ill. Protecting and fireproofing wood and other materials. No. 1,318,523; Oct. 14; v. 267; p. 226.
- Arent, Arthur, Des Moines, and R. A. Kuever, Iowa City, Iowa, assignors, by direct and mesne assignments, to Arentox Company, Chicago, Ill. Protecting and fireproofing materials. No. 1,318,524; Oct. 14; v. 267; p. 226.
- Arentox Company. (See Arent and Kuever, assignors.)
- Areson, Nels, Portland, Ore. Scaffolding-bracket for wooden-ship building. No. 1,303,148; May 6; v. 262; p. 128.
- Arey, Fred C., Oak Park, assignor to E. A. Turner, Chicago, Ill. Machine for expanding metal laths. No. 1,318,951; Oct. 14; v. 267; p. 308.
- Arey, Fred C., Oak Park, assignor to E. A. Turner, Chicago, Ill. Machine for making ribbed expanded metal. No. 1,318,953; Oct. 14; v. 267; p. 308.
- Argo, Horace E., Oak Park, Ill. Grease-cup. No. 1,294,598; Feb. 18; v. 259; p. 445.
- Argovia, A.-G. (See Walter, Erwin, assignor.)
- Argylls Limited. (See Burt, Peter, assignor.)
- Argylls Limited, The. (See McCullum, James H. K., assignor.)
- Arias, Mario F., Brooklyn, N. Y. Thermostatic circuit-closer. No. 1,290,866; Jan. 14; v. 258; p. 230.
- Arico, Antonio, Philadelphia, Pa. Loom. No. 1,323,564; Dec. 2; v. 269; p. 64.
- Arico, Antonio, Philadelphia, Pa. Shuttle. No. 1,324,991; Dec. 16; v. 269; p. 440.
- Ariuchi, Rikizo, Portland, Ore. Combined paper-roll support and cutter. No. 1,324,019; Dec. 2; v. 269; p. 150.
- Arkin, Louis, Boston, Mass. Fastener. No. 1,296,254; Mar. 4; v. 260; p. 100.
- Arkin, Louis, Boston, Mass. Fastener. No. 1,300,105; Apr. 8; v. 261; p. 365.
- Arkland, Charles F., La Grande, Ore. Portable surfacing-tool for meat-blocks or similar articles. No. 1,326,829; Dec. 30; v. 269; p. 838.
- Arldige, William J. C., Barnard, N. Y. Innersole for shoes. No. 1,298,156; Mar. 25; v. 260; p. 605.
- Arlington Company, The. (See Crane, Jasper E., assignor.)
- Arlington Company, The. (See Loomis, Evarts G., assignor.)
- Arlington Company, The. (See Terhune, Leonard B., assignor.)
- Armbrust, Ellwood, Gillies Depot, Ontario, Canada. Automatic magazine-phonograph. No. 1,304,246; May 20; v. 262; p. 394.
- Armbruster, Charles E. H., Denver, Colo. Dynamic optometer. No. 1,306,734; June 17; v. 263; p. 346.
- Armbruster, Charles E. H., Denver, Colo. Dynamic optometer. No. 1,306,735; June 17; v. 263; p. 346.
- Armbruster, Charles E. H., Denver, Colo. Dynamic optometer. No. 1,306,736; June 17; v. 263; p. 346.
- Armelin, Edouard, South Woodford, England. Connection with dry batteries. No. 1,299,813; Apr. 8; v. 261; p. 301.
- Armfield, Tillman O., Elwood, Ind. Sanitary folding bed. No. 1,297,308; Mar. 18; v. 260; p. 401.
- Armington, Arthur P., Wickliffe, Ohio. Friction-drive. No. 1,305,866; June 3; v. 263; p. 120.
- Armor, James C., Pittsfield, Mass. Lightning-arrester. No. 1,307,995; June 24; v. 263; p. 610.
- Armor, James C., Pittsfield, Mass. Jar-opener. No. 1,321,700; Nov. 11; v. 268; p. 317.
- Armorcord Tire & Rubber Co. (See Mayne, Herbert N., assignor.)
- Armour Fertilizer Works. (See Meyers, Herbert H., assignor.)
- Armour Fertilizer Works. (See Shoeld, Mark, assignor.)
- Arms Products Company. (See Post, Truman W., assignor.)
- Armspear Manufacturing Co. (See Spear, Furman D., assignor.)
- Armstrong, Adam E., Three Rivers, Mich. Steam-trap. No. 1,309,604; July 15; v. 264; p. 361.
- Armstrong, Amasa A., Edmore, Mich. Gas-engine lock and key. No. 1,292,673; Jan. 28; v. 258; p. 715.
- Armstrong, Bert E., Seaton, Ill. Engine-starter. No. 1,290,480; Jan. 7; v. 258; p. 113.
- Armstrong, Charles C., Marysville, Ohio, assignor, by mesne assignments, to Welsbach Company, Gloucester City, N. J. Globe-holder. (Reissue.) No. 1,4769; Dec. 16; v. 269; p. 535.
- Armstrong, Charles O., Sioux Falls, S. D. Barrel. No. 1,317,260; Sept. 30; v. 266; p. 623.
- Armstrong Cork Company. (See Fix, Frank C., assignor.)
- Armstrong Cork Company. (See Matthaei, Justus W., assignor.)
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Device for band-brakes and the like. No. 1,315,452; Sept. 9; v. 266; p. 189.
- Armstrong, Ernest K., Millersburg, Ohio. Hair-pin. No. 1,308,833; July 8; v. 264; p. 179.
- Armstrong, George E. (See Wood and Armstrong.)
- Armstrong, George E., Los Angeles, Calif. Ground-detector. No. 1,300,546; Apr. 15; v. 261; p. 486.
- Armstrong, George F., Rutherford, N. J. Making puncture-proof tire-tubes. No. 1,311,738; July 29; v. 264; p. 818.
- Armstrong, George J., Buffalo, N. Y., assignor, by mesne assignments, to The Columbus McKinnon Chain Co., Columbus, Ohio. Electric welding-machine. No. 1,310,554; July 22; v. 264; p. 565.
- Armstrong, George J., Buffalo, N. Y., assignor to The Columbus McKinnon Chain Co., Inc., Columbus, Ohio. Electric welding-machine. No. 1,310,555; July 22; v. 264; p. 565.
- Armstrong, Harriet G., Chicago, Ill. Implement for making rugs. No. 1,323,733; Dec. 2; v. 269; p. 95.



## Alphabetical list of patentees—Continued.

- Armstrong, Harry H., assignor to Fidelity Brass Manufacturing Company, Chicago, Ill. Autogenous cutting-torch. No. 1,300,106; Apr. 8; v. 261; p. 365.
- Armstrong, Harry Y., Springfield, Mass. Envelop-making machine. No. 1,325,311; Dec. 16; v. 269; p. 500.
- Armstrong, Harry Y., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,292,674; Jan. 28; v. 258; p. 715.
- Armstrong, Harry Y., assignor to Package Machinery Company, Springfield, Mass. Packaging-machine. No. 1,295,951; Mar. 4; v. 260; p. 30.
- Armstrong, Harry Y., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,298,637; Apr. 1; v. 261; p. 3.
- Armstrong, Harry Y., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,308,320; July 1; v. 264; p. 57.
- Armstrong, Harry Y., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,308,321; July 1; v. 264; p. 57.
- Armstrong, Harry Y., assignor to Package Machinery Company, Springfield, Mass. Banding-machine. No. 1,308,322; July 1; v. 264; p. 57.
- Armstrong, Jasper. (See Lindene, Frank, assignor.)
- Armstrong, Joe W., et al. (See Beatty, John P., assignor.)
- Armstrong, John A., Westcombe Park, London, England. Unsinkable ship. No. 1,310,233; July 15; v. 264; p. 475.
- Armstrong, John J. (See Booth, Robert B., assignor.)
- Armstrong, John J., assignor of one-half to C. Bosse, Honolulu, Hawaii. Hand sewing-needle. No. 1,293,660; Feb. 11; v. 259; p. 190.
- Armstrong, Louis E., Pensacola, Fla. Safe-saving device. No. 1,313,156; Aug. 12; v. 265; p. 281.
- Armstrong, Marie N., Spokane, Wash. Christmas-tree decoration. No. 1,302,754; May 6; v. 262; p. 51.
- Armstrong, Martin B., London, Ohio. Building construction. No. 1,307,333; June 24; v. 263; p. 489.
- Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Plaster-board composition. No. 1,301,893; Apr. 29; v. 261; p. 825.
- Armstrong, Morgan K., assignor to Bestwall Manufacturing Company, Chicago, Ill. Weather-board. No. 1,322,278; Nov. 18; v. 268; p. 476.
- Armstrong, Percy A. E., Loudonville, N. Y. Process of and apparatus for removing sand from hollow drill-rods and the like. No. 1,311,866; Aug. 5; v. 265; p. 3.
- Armstrong, Percy A. E., Loudonville, N. Y. Making hollow drill-rods and the like. No. 1,321,499; Nov. 11; v. 268; p. 279.
- Armstrong, Percy A. E., Loudonville, N. Y. Making tubular bodies. No. 1,321,500; Nov. 11; v. 268; p. 279.
- Armstrong, Percy A. E., Loudonville, N. Y. Stable-surface alloy steel. No. 1,322,511; Nov. 25; v. 268; p. 572.
- Armstrong, Rankin H., et al. (See Van Borkum, John A., assignor.)
- Armstrong, Turner R., et al. (See Beatty, John P., assignor.)
- Armstrong, Wesley J., assignor to McKinnon Dash Company, Buffalo, N. Y. Folding table. No. 1,313,662; Aug. 19; v. 265; p. 391.
- Armstrong, William H., Washington, D. C. Propeller. No. 1,307,106; June 17; v. 263; p. 414.
- Armstrong, William S., San Antonio, Tex. Submarine telescope. No. 1,301,534; Apr. 22; v. 261; p. 724.
- Arndt, Franklin E., assignor to The Gallion Iron Works & Mfg. Co., Gallion, Ohio. Material elevating tower and discharge chute. No. 1,318,472; Oct. 14; v. 267; p. 216.
- Arndt, Franklin E., assignor to The Gallion Iron Works & Mfg. Co., Gallion, Ohio. Mechanism for tilting road-grader scrapers or moldboards. No. 1,318,473; Oct. 14; v. 267; p. 216.
- Arndt, Franklin E., assignor to The Gallion Iron Works & Mfg. Co., Gallion, Ohio. Controlling-gate for unloading chutes. No. 1,322,512; Nov. 5; v. 268; p. 572.
- Arnett, Fred R., Philadelphia, Pa. Syringe. No. 1,317,851; Oct. 7; v. 267; p. 37.
- Arnett, Fred R., Philadelphia, Pa. Toy machine-gun. No. 1,326,431; Dec. 30; v. 269; p. 762.
- Arney, John W., Tomahawk, Wis., assignor to A. B. Leith, Chicago, Ill. Occupant-propelled vehicle. No. 1,313,157; Aug. 12; v. 265; p. 281.
- Arnheim, Lewis, assignor of one-fourth to W. Klein, Newark, N. J., one-fourth to S. M. Levinson and one-fourth to M. M. Reicher, New York, N. Y. Bottle-seal. No. 1,294,220; Feb. 11; v. 259; p. 322.
- Arnold, Abbie L., et al., executors. (See Arnold and Frye, assignors.)
- Arnold, Albert C., assignor to The N. N. Hill Brass Co., East Hampton, Conn. Toy. No. 1,301,353; Apr. 22; v. 261; p. 691.
- Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Edging-machine. No. 1,302,494; May 6; v. 262; p. 3.
- Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,321,077; Nov. 11; v. 268; p. 199.
- Arnold, Carl F., Watsonville, Calif. Device for testing electric currents. No. 1,322,157; Nov. 18; v. 268; p. 453.
- Arnold-Creager Company, The. (See Graham, Henry W. B., assignor.)
- Arnold, Edward E., Greene, Coventry, assignor to Nitrogen Products Company, Providence, R. I. System for recovering cyanids and the like from cyanid-bearing material. No. 1,314,236; Aug. 26; v. 265; p. 535.
- Arnold, Edward E., Greene, Coventry, assignor to Nitrogen Products Company, Providence, R. I. Recovering cyanids and the like from cyanid-bearing material. No. 1,314,237; Aug. 26; v. 265; p. 535.
- Arnold, Edwin E., assignor to Iron City Products Company, Pittsburgh, Pa. Retainer for roller thrust-bearings. No. 1,324,769; Dec. 9; v. 269; p. 337.
- Arnold, Elisha J., Rensselaer, N. Y., assignor to Scissors Appliance Co., Inc. Shears and scissors. No. 1,299,104; Apr. 1; v. 261; p. 112.
- Arnold, Emmer B., Los Angeles, Cal. Wave-force-utilizing device. No. 1,290,867; Jan. 14; v. 258; p. 230.
- Arnold, Ernst, Reading, Pa. Hydraulic toy. No. 1,299,897; Apr. 8; v. 261; p. 319.
- Arnold, Fred L., assignor to R. L. McElroy, New York, N. Y. Carbureter. No. 1,307,107; June 17; v. 263; p. 415.
- Arnold, Fred W. (See Heinrichs, Cleveland J., assignor.)
- Arnold, Fred W., Cambridge, Ohio. Fish-net. No. 1,310,553; July 22; v. 264; p. 565.
- Arnold, Frederick A., San Diego, Calif. Vehicle-lock. No. 1,323,435; Dec. 2; v. 269; p. 40.
- Arnold, Frederick B., Longmeadow, Mass. Steering device for lawn-mowers. No. 1,323,386; Dec. 2; v. 269; p. 31.
- Arnold, George, Rosemont, Quebec, Canada. Blank for envelops of two sizes. No. 1,315,070; Sept. 2; v. 266; p. 110.
- Arnold, George A., Boston, Mass., assignor to J. A. Abeles. Vacuum-tank for fuel-feed systems. No. 1,299,653; Apr. 8; v. 261; p. 264.
- Arnold, H. W., et al. (See Adee, Arthur L., assignor.)
- Arnold, Harold D., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Power-limiting device. (Reissue.) No. 14,585; Jan. 14; v. 258; p. 424.
- Arnold, Harold D., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Manufacture of vacuum-tube devices. No. 1,297,309; Mar. 18; v. 260; p. 401.
- Arnold, Harold D., East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric Company, Incorporated. Protection device for electric circuits. (Reissue.) No. 14,752; Nov. 18; v. 268; p. 520.
- Arnold, Henry, assignor of one-half to G. H. Hagen, Melton, Wis. Window-shade. No. 1,326,012; Dec. 23; v. 269; p. 646.
- Arnold, Howard P., Rockland, Mass. Manufacturing cutting-tools. No. 1,290,042; Jan. 7; v. 258; p. 7.
- Arnold, Jacob F., Bellevue, Ohio. Table. No. 1,308,652; July 1; v. 264; p. 118.
- Arnold, Louis P., Norwalk, Conn. Tire-making machine. No. 1,302,122; Apr. 29; v. 261; p. 867.
- Arnold, Lyman, Lynn, Mass., assignor to General Electric Company. High-voltage-current transformer. No. 1,301,636; Apr. 22; v. 261; p. 743.
- Arnold, Stanley B., Chicago, Ill. Valve. No. 1,304,929; May 27; v. 262; p. 563.
- Arnold, Stanley B., Chicago, Ill. Internal-combustion engine. No. 1,305,334; June 3; v. 263; p. 20.
- Arnold, Thomas R., Langdon, N. D. Water-supply system. No. 1,304,529; May 27; v. 262; p. 489.
- Arnold, William B., North Abington, Mass. Welt for boots and shoes. No. 1,307,174; June 17; v. 263; p. 426.
- Arnold, William B., deceased, and A. G. Frye, North Abington, Mass., assignors to said William B. Arnold; A. L. Arnold and J. B. Studley, executors. Welt-grooving machine. No. 1,318,340; Oct. 7; v. 267; p. 130.
- Arnold, William B., deceased, and A. G. Frye, North Abington, Mass., assignors to said William B. Arnold; A. L. Arnold and J. B. Studley, executors. Welt-slitting machine. No. 1,318,341; Oct. 7; v. 267; p. 130.
- Arnol, William D., Bellevue, Wash. Combined wrench and pliers. No. 1,309,874; July 15; v. 264; p. 410.
- Arnou, Irwin. (See Schafer and Arnou.)
- Arnsperger, Eugene N., Chicago, Ill. Automobile-wheel hub. No. 1,300,807; Apr. 15; v. 261; p. 541.
- Arntz, John V., Canal Fulton, Ohio. Antislipping device. No. 1,294,751; Feb. 18; v. 259; p. 481.
- Arntzen, Ole B., Minneapolis, Minn. Ticket-cabinet. No. 1,306,795; June 17; v. 263; p. 357.
- Aromint Company, The. (See Harris and Bogue, assignors.)
- Arons, Louis, Chicago, Ill. Garment-supporter. No. 1,294,374; Feb. 18; v. 259; p. 392.
- Aronson, Hillard A., assignor of one-half to J. A. Quinn, Tower, Minn. Rowlock. No. 1,293,298; Feb. 4; v. 259; p. 76.
- Aronson, I. Leonard. (See Emmons, Albert F., assignor.)
- Aronson, Louis V., Newark, N. J. Ignition-cap for fuses. No. 1,295,952; Mar. 4; v. 269; p. 80.



- Aronson, Louis V., Newark, N. J. Temperature-indicating device for cooling systems for internal-combustion engines. No. 1,306,396; June 10; v. 263; p. 251.
- Aronson, Louis V., Newark, N. J. Support for flags, emblems, and similar articles. No. 1,325,973; Dec. 23; v. 269; p. 639.
- Arpin, Edmund P., U. S. Army. Steering device. No. 1,310,032; July 22; v. 264; p. 654.
- Arrigoni, Guido, St. Paul, Minn. Invalid-bed. No. 1,296,451; Mar. 4; v. 260; p. 142.
- Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
- Arrowsmith, James W., Morristown, N. J. assignor to Arrowsmith Manufacturing Company. Device for measuring the feet. No. 1,313,048; Aug. 12; v. 265; p. 259.
- Arrowsmith Manufacturing Company. (See Arrowsmith, James W., assignor.)
- Arsenovites, Elice, Washington, D. C. Chain pump. No. 1,292,226; Jan. 21; v. 258; p. 587.
- Art in Buttons, Inc. (See Angle and Sager, assignors.)
- Art In Buttons, Inc. (See Siebert, Rudolph R., assignor.)
- Art in Buttons Incorporated. (See Hastings, Herbert, assignor.)
- Art Metal Construction Co., The. (See Bullock and Leave, assignors.)
- Art Metal Construction Company, The. (See Bullock and Anderson, assignors.)
- Arter, John J. B., Greet, near Birmingham, Eng. Flash-lamp. No. 1,291,710; Jan. 21; v. 258; p. 458.
- Arter, John J. B., Greet, near Birmingham, England. Ordnance. No. 1,324,098; Dec. 9; v. 269; p. 209.
- Arter, William, assignor to The Persons-Arter Machine Company, Worcester, Mass. Magnetic chuck. No. 1,290,868; Jan. 14; v. 258; p. 230.
- Arter, William, assignor to The Persons-Arter Machine Company, Worcester, Mass. Grinding-machine. No. 1,294,024; Feb. 11; v. 259; p. 276.
- Arter, William, assignor to The Persons-Arter Machine Company, Worcester, Mass. Adjustable bearing. No. 1,306,397; June 10; v. 263; p. 251.
- Arter, William, assignor to The Persons-Arter Machine Company, Worcester, Mass. Automatic reversing mechanism. No. 1,312,091; Aug. 5; v. 265; p. 45.
- Arter, William, assignor to The Persons-Arter Machine Company, Worcester, Mass. Magnetic chuck. No. 1,312,092; Aug. 5; v. 265; p. 45.
- Arter, William, assignor to The Persons-Arter Machine Company, Worcester, Mass. Grinding and similar machine. No. 1,324,992; Dec. 16; v. 269; p. 440.
- Arthur, Albert F., assignor to The Cleveland Hardware Company, Cleveland, Ohio. Composite die for drop-hammers and the like. No. 1,302,274; Apr. 29; v. 261; p. 896.
- Arthur, Charles A., Eureka, Calif. Gun-sight. No. 1,324,290; Dec. 9; v. 269; p. 245.
- Arthur D. Little, Incorporated. (See Swett, Charles E., assignor.)
- Arthur-Fowler Co. (See Arthur, Guy, assignor.)
- Arthur G. McKee & Company. (See Peiter, Frederick, assignor.)
- Arthur, Guy, Ritzville, Wash. Electric water-heater. No. 1,301,995; Apr. 29; v. 261; p. 844.
- Arthur, Guy, assignor to Arthur-Fowler Co., Ritzville, Wash. Electric water-heater. No. 1,309,234; July 8; v. 264; p. 254.
- Arthur, James C. (See Clark, Frank J., assignor.)
- Arthur, James F., Dickson, Pa. Domestic-boiler stand. No. 1,312,719; Aug. 12; v. 265; p. 194.
- Arthur, James W., Warren, Ohio. Tire-casing holder and shifter. No. 1,309,058; July 8; v. 264; p. 223.
- Arthur, James W., assignor to The Williams Foundry & Machine Company, Akron, Ohio. Vulcanizing apparatus. No. 1,308,834; July 8; v. 264; p. 179.
- Arthur, James W., assignor to The Williams Foundry & Machine Company, Akron, Ohio. Plural-part mold. No. 1,315,200; Sept. 9; v. 266; p. 143.
- Arthur, William, New Haven, Conn. Registering device for electric-train crews. No. 1,319,451; Oct. 21; v. 267; p. 428.
- Arthur, William, New Haven, Conn. Coasting-register. No. 1,319,452; Oct. 21; v. 267; p. 429.
- Arthur, William, New Haven, Conn. Registering mechanism. No. 1,319,453; Oct. 21; v. 267; p. 429.
- Arthur, William, New Haven, Conn. Coasting-register. No. 1,319,454; Oct. 21; v. 267; p. 429.
- Artom, Alessandro, Turin, Italy. Receiving instrument for wireless signaling. No. 1,303,625; May 13; v. 262; p. 242.
- Artz, Harry L., New York, N. Y. Weight-motor. No. 1,311,203; July 29; v. 264; p. 718.
- Artz, John D., Dayton, Ohio. Forming-press. No. 1,315,937; Sept. 16; v. 266; p. 291.
- Arvac Manufacturing Company. (See Bright and Smith, assignors.)
- Arvintz, Abraham A., assignor to S. Levin, Brooklyn, N. Y. Sprinkler system. No. 1,308,974; July 8; v. 264; p. 206.
- Asakawa, Shozo, Kanagawa-Ken, Japan. Ship construction. No. 1,313,663; Aug. 19; v. 265; p. 392.
- Asay, William H., Asbury Park, N. J. Stamp-affixing machine. No. 1,306,459; June 10; v. 263; p. 263.
- Asbell, Mellege S., et al. (See Scott, Harry R., assignor.)
- Asbestos Protected Metal Co. (See Fitz Gerald, John M., assignor.)
- Asbestos Protected Metal Company. (See Robertson, Harold H., assignor.)
- Asbury, Dorsey F., Washington, D. C. Means for preventing gas interference with projectiles in multiple-gun mountings. No. 1,306,368; June 10; v. 263; p. 246.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Counterbalance for swinging breech mechanisms. No. 1,297,984; Mar. 25; v. 260; p. 569.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Firing mechanism for guns. No. 1,310,043; July 15; v. 264; p. 441.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Plug-operating device for breech mechanisms. No. 1,310,044; July 15; v. 264; p. 441.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Breech mechanism. No. 1,310,045; July 15; v. 264; p. 441.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Detonating-fuse. No. 1,310,046; July 15; v. 264; p. 441.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Energy-transferring device for breech mechanisms. No. 1,323,947; Dec. 2; v. 269; p. 136.
- Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Counterbalance for swinging breech mechanism. No. 1,326,629; Dec. 30; v. 269; p. 800.
- Asbury, Harry E., Philadelphia, Pa. Hand-grenade. No. 1,311,739; July 29; v. 264; p. 818.
- Asbury, Harry E., Philadelphia, Pa. Hand-grenade. No. 1,311,740; July 29; v. 264; p. 818.
- Asbury, Ralph E. (See Gressle and Asbury.)
- Ascher, Alexander. (See Fogel and Ascher.)
- Ascher, Louis K., Indianapolis, Ind. Thermostatically-controlled radiator-valve. No. 1,309,008; July 8; v. 264; p. 212.
- Aschmotat, Friedrich, Perth Amboy, N. J. Street-car indicator. No. 1,302,495; May 6; v. 262; p. 3.
- Ascoli, Louis D., Hordchurch, England. Vacuum-cleaner. No. 1,324,635; Dec. 9; v. 269; p. 312.
- Ash, Charles S., Geneva, N. Y. Wheel-hub. No. 1,314,380; Aug. 26; v. 265; p. 363.
- Ash, Charles S., Geneva, N. Y. Wire wheel. No. 1,314,381; Aug. 26; v. 265; p. 563.
- Ash, Charles S., Geneva, N. Y. Wheel-hub. No. 1,316,997; Sept. 23; v. 266; p. 537.
- Ash, Charles S., Buffalo, N. Y., assignor, by mesne assignments, to Wire Wheel Corporation of America. Detachable wheel for automobiles. No. 1,313,976; Aug. 26; v. 265; p. 486.
- Ash, Charles S., Buffalo, N. Y., assignor, by mesne assignments, to Wire Wheel Corporation of America. Cap-nut for vehicle-wheels. No. 1,319,683; Oct. 28; v. 267; p. 495.
- Ash, Jesse E., assignor of one-half to C. L. Lemen, Silver Grove, Ky. Rivet-cutter safety device. No. 1,320,191; Oct. 28; v. 267; p. 590.
- Ash, Thomas A., Milwaukee, Wis. Rim spreader and contractor. No. 1,321,584; Nov. 11; v. 268; p. 295.
- Ashcroft, Albert M. (See Maynard, Ashcroft, and Fletcher.)
- Ashcroft, Edgar A., London, England. Producing nitrogen and removing oxygen from mixtures of gases. No. 1,320,192; Oct. 28; v. 267; p. 590.
- Ashcroft, Edgar A., London, England. Extraction and recovery of potassium or potassium salts from potassium-bearing materials. No. 1,320,193; Oct. 28; v. 267; p. 590.
- Ashcroft Manufacturing Company, The. (See Crocker, Ernest B., assignor.)
- Ashcroft, William, Garson Quarry, Manitoba, Canada. Tire. No. 1,315,001; Sept. 2; v. 266; p. 97.
- Ashe, Lauren H. (See Kohman, Godfrey, and Ashe.)
- Ashenhurst, Harold S., assignor of one-half to J. D. Hubbard, Chicago, Ill. Treating asbestos-bearing rock. No. 1,317,852; Oct. 7; v. 267; p. 37.
- Ashenhurst, Harold S., assignor of one-half to J. D. Hubbard, Chicago, Ill. Asbestos cement. No. 1,317,853; Oct. 7; v. 267; p. 37.
- Asher, William J., Newark, N. J. Non-skid chain. No. 1,302,496; May 6; v. 262; p. 4.
- Ashinger, Herman H., assignor to George Cutter Company, South Bend, Ind. Film-socket. No. 1,297,432; Mar. 18; v. 260; p. 426.
- Ashland Products Co., The. (See Willour, Le Roy, assignor. (Reissue.)
- Ashley, Arthur E., Boise, Idaho. Hood-lift motor-ventilator. No. 1,308,923; July 8; v. 264; p. 196.
- Ashley, Charles G., assignor to General Engineering and Construction Company, Limited, Toronto, Ontario, Canada. Duplex printing-telegraph system. No. 1,301,213; Apr. 22; v. 261; p. 663.
- Ashley, Charles S., Toledo, Ohio. Cooling and ventilating method. No. 1,297,633; Mar. 18; v. 260; p. 468.

## Alphabetical list of patentees—Continued.

- Ashley, Frank M., Brooklyn, N. Y., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Fountain-pen. No. 1,317,472; Sept. 30; v. 266; p. 664.
- Ashley, John F., Dallas, Tex. Cultivator. No. 1,313,242; Aug. 19; v. 265; p. 313.
- Ashley, Raymond T., Reno, Nev. Rotary motor. No. 1,325,684; Dec. 23; v. 269; p. 586.
- Ashley, Robert W., New York, N. Y., assignor of one-half to F. Oberkirch, St. Marys, Pa. Vehicle-wheel rim. No. 1,305,682; June 3; v. 263; p. 86.
- Ashley, Robert W., New York, N. Y., and F. Oberkirch, St. Marys, Pa. Demountable rim for wire-wheels and the like. No. 1,305,683; June 3; v. 263; p. 86.
- Ashley, Walter J., Chicago, Ill. Automatic universal stereopticon. No. 1,313,241; Aug. 19; v. 265; p. 313.
- Ashmore, Walter L., and W. T. Morgan, Jr., deceased, Macon, Ga.; W. T. Morgan, Sr., temporary administrator. Roller for finishing and smoothing cement and concrete pavements. No. 1,302,275; Apr. 29; v. 261; p. 896.
- Ashton, Hannah, executrix. (See Ashton, Orrell.)
- Ashton, Orrell, deceased; H. Ashton, executrix, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for use in assembling soles on lasts. No. 1,312,509; Aug. 12; v. 265; p. 153.
- Ashton, Orrell, deceased, by H. Ashton, executrix, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Relasting-machine. No. 1,313,935; Aug. 26; v. 265; p. 477.
- Ashton, Orrell, deceased, Swampscott; H. Ashton, executrix, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,319,261; Oct. 21; v. 267; p. 392.
- Ashworth, Arthur A., Coffeyville, Kans. Scraping apparatus for stills. No. 1,300,547; Apr. 15; v. 261; p. 486.
- Ashworth, Arthur A., Coffeyville, Kans. Still. No. 1,300,548; Apr. 15; v. 261; p. 486.
- Ashworth, Edward M., Toronto, Ontario, Canada. Maximum-demand indicator for electric meters. No. 1,323,518; Dec. 2; v. 269; p. 56.
- Ashworth, Fred, Beverly, Mass., assignor, by mesne assignments to United Shoe Machinery Corporation, Paterson, N. J. Bobbin-winding machine. No. 1,292,560; Jan. 28; v. 258; p. 687.
- Ashworth, Fred, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread-waxing device. No. 1,298,638; Apr. 1; v. 261; p. 4.
- Ashworth, Fred, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread waxing and guiding device. No. 1,322,746; Nov. 25; v. 268; p. 616.
- Ashworth, John W., New York, N. Y. Computing-scale. (Reissue.) No. 14,727; Sept. 23; v. 266; p. 566.
- Aske, Martin T., Lanesboro, Minn. Stock-feeder. No. 1,325,922; Dec. 23; v. 269; p. 630.
- Askew, Harvey H., Los Angeles, Calif. Railway-crossing. No. 1,312,000; Aug. 5; v. 265; p. 45.
- Askins, Joseph, Lima, Ohio. Wrench. No. 1,315,071; Sept. 2; v. 266; p. 110.
- Askman, Johan E., Nyhem, assignor to Aktiebolaget Malcus Holmquist, Halmstad, Sweden. Wrench, shifting-spanner, pipe-tongs, and the like. No. 1,320,668; Nov. 4; v. 268; p. 57.
- Askowetz Brothers. (See Gray, Edwin T., assignor.)
- Aske, Charles E., Springfield, Ark. Wheel garden-plow. No. 1,324,719; Dec. 9; v. 269; p. 323.
- Asmondis, Rocco, Zelenople, Pa. Saw setting and sharpening machine. No. 1,311,308; July 29; v. 264; p. 738.
- Asmussen, Otto, Brooklyn, N. Y. Automatic electric multi-switching, testing and signaling system. No. 1,324,420; Dec. 9; v. 269; p. 271.
- Asmussen, Otto, Brooklyn, N. Y. Multiswitching apparatus. No. 1,326,126; Dec. 23; v. 269; p. 668.
- Aspinwall, John A. F., Liverpool, England. Protected third rail. No. 1,311,033; July 22; v. 264; p. 654.
- Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Mfg. Co. Potato-planter. No. 1,296,255; Mar. 4; v. 260; p. 100.
- Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Mfg. Co. Farm implement and the like. No. 1,319,504; Oct. 21; v. 267; p. 439.
- Aspinwall, Lewis A., Jackson, Mich., assignor to Aspinwall Mfg. Co. Potato-digger. No. 1,319,505; Oct. 21; v. 267; p. 439.
- Aspinwall, Louis M. (See Simmon and Aspinwall.)
- Aspinwall, Louis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Broaching device for torpedoes. No. 1,323,347; Dec. 2; v. 269; p. 23.
- Aspinwall Mfg. Co. (See Aspinwall, Lewis A., assignor.)
- Asplund, Robert A., Kansas City, Kans. Railway-gate. No. 1,318,309; Oct. 7; v. 267; p. 124.
- Associated Engineering and Supply Company. (See Stewart, Carlton D., assignor.)
- Associated Engineering and Supply Company. (See Weeks and Stewart, assignors.)
- Associated Manufacturers Company. (See Menges, Theodore C., assignor.)
- Aster, Anthony, Rochester, N. Y. Airplane. No. 1,290,481; Jan. 7; v. 258; p. 113.
- Astruck, John H., New York, N. Y. Pedestal. No. 1,320,823; Nov. 4; v. 268; p. 87.
- Astrup Company, The. (See Wood, William H., assignor.)
- Atanasoff, Leo, Milwaukee, Wis. Tie-holder. No. 1,312,071; Aug. 5; v. 265; p. 41.
- Atchison, Isaac W., Cicero, and F. M. Steimer, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Mechanism for removing burs. No. 1,296,154; Mar. 4; v. 260; p. 79.
- Atchley, Emerson J., Riverside, Calif. Bee-shipping box. No. 1,311,741; July 29; v. 264; p. 819.
- Aten, Theodore, Floral Park, N. Y. Concrete construction. No. 1,307,432; June 24; v. 263; p. 507.
- Atherton, Carlyle A., Bowdon, England, assignor to Westinghouse Electric & Manufacturing Company. Reduction-gearing for electric motors. No. 1,300,236; Apr. 15; v. 261; p. 419.
- Atherton, Luther, and O. Meck, Tallahassee, Ala. Carding-machine. No. 1,299,105; Apr. 1; v. 261; p. 112.
- Atkin, Arthur C., Hamilton, New Zealand. Lubricating-axle. No. 1,294,221; Feb. 11; v. 259; p. 323.
- Atkins, Irving J., Dallas, Tex. Clothes-pin. No. 1,293,661; Feb. 11; v. 259; p. 190.
- Atkins, James B., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Vehicle-wheel rim. No. 1,320,597; Nov. 4; v. 268; p. 45.
- Atkins, William, Auburn, N. Y. Plow attachment for motor-tractors. No. 1,314,038; Aug. 26; v. 265; p. 497.
- Atkins, William, assignor of three-fourths to E. N. Ross and W. A. Tice, Auburn, N. Y. Wagon-train. (Reissue.) No. 14,639; Apr. 29; v. 261; p. 938.
- Atkinson, Earl, Morsemere, N. J. Airplane-launching means. No. 1,317,414; Sept. 30; v. 266; p. 632.
- Atkinson, Frank L., and N. Sclar, Hoboken, N. J. Knock-down picture-frame. No. 1,313,778; Aug. 19; v. 265; p. 414.
- Atkinson, Herbert J., and G. F. Clark, Denver, Colo. Spark-plug. No. 1,315,002; Sept. 2; v. 266; p. 97.
- Atkinson, Herbert S., East Orange, N. J., assignor to The Hayward Company, New York, N. Y. Bucket. No. 1,311,259; July 29; v. 264; p. 729.
- Atkinson, James B., et al. (See Butrick, James A., assignor.)
- Atkinson, James E., Landis, Saskatchewan, Canada. Valve control in liquid-tanks. No. 1,297,985; Mar. 25; v. 260; p. 569.
- Atkinson, Joseph. (See Gibbs and Atkinson.)
- Atkinson, Wiley F., Ferris, Tex. Street-cleaning machine. No. 1,291,634; Jan. 14; v. 258; p. 409.
- Atlantic Hand Brake Corporation, The. (See Sauvage, William H., assignor.)
- Atlantic Refining Company, The. (See Buerger, Charles B., assignor.)
- Atlantic Refining Company, The. (See Nichols, Howard M., assignor.)
- Atlantic Welding Corporation. (See Clark, Jansen, and Gallor, assignors.)
- Atlas Car and Manufacturing Company. (See Wright, Schellentrager, and Martin assignors.)
- Atlas Electric Devices Co. (See Thompson and Jameson, assignors.)
- Atlas, Max, Jacksonville, Fla. Crutch-tip. No. 1,305,867; June 3; v. 263; p. 120.
- Atlas Powder Company. (See Given and Barteaux, assignors.)
- Atlas Powder Company. (See Hill and Strane, assignors.)
- Atlas Process Company. (See Von Groeling, Albrecht F. G. P. J., assignor.)
- Atmanchuk, Michal, Syracuse, N. Y. Convertible wheel. No. 1,322,513; Nov. 25; v. 268; p. 572.
- Atterbury, Grosvenor, New York, N. Y. Apparatus for casting cementitious material. No. 1,293,662; Feb. 11; v. 259; p. 190.
- Atwood, Charles F., Grand Rapids, Mich. Grease-pump. No. 1,295,670; Feb. 25; v. 259; p. 716.
- Atwood, Benjamin S., Milford, Mass. Shuttle. No. 1,312,666; Aug. 12; v. 265; p. 184.
- Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveying apparatus. No. 1,292,227; Jan. 21; v. 258; p. 587.
- Atwood, James T., Rockford, Ill. Automobile-door buffer. No. 1,299,416; Apr. 8; v. 261; p. 210.
- Atwood, Leonard, Boston, Mass. Rear-wheel transmission. No. 1,322,392; Nov. 18; v. 268; p. 498.
- Atwood, Leonard, Boston, Mass. Aeroplane. No. 1,325,685; Dec. 23; v. 269; p. 586.
- Atwood, Winfield A., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,323,810; Dec. 2; v. 269; p. 110.
- Atwood, Winfield A., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,323,811; Dec. 2; v. 269; p. 110.
- Atzberger, Frank X., East Islip, N. Y. Bushing-puller. No. 1,310,270; July 15; v. 264; p. 482.
- Au Buchon, Perry P., St. Louis, Mo. Garment-fastener. No. 1,297,634; Mar. 18; v. 260; p. 468.
- Au-To Play Goods Company, The. (See Elzey, Edgar P., assignor.)



- Aubert, Albert M., Billancourt, France. Regenerative tipping furnace. No. 1,304,725; May 27; v. 262; p. 525.
- Auble Die & Stamping Company, The. (See Auble, James H. and J. L., assignors.)
- Auble, James H. and J. L., assignors to The Auble Die & Stamping Company, Cincinnati, Ohio. Process and apparatus for forming sheet-metal forms. No. 1,311,368; July 29; v. 264; p. 749.
- Auble, James L. (See Auble, James H. and J. L.)
- Audet, Francis X., deceased, New York, N. Y.; M. F. Audet, administratrix, assignor to The Phonoharp Company, East Boston, Mass. Stringed musical instrument. No. 1,320,523; Nov. 4; v. 263; p. 31.
- Audet, Mary F., administratrix. (See Audet, Francis X.)
- Audia, Antonio, Chicago, Ill. Folding top for automobiles. No. 1,301,894; Apr. 29; v. 261; p. 825.
- Auel, Carl B., and D. C. Pultney, Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Safety-guard for machine-tools. No. 1,308,027; July 1; v. 264; p. 4.
- Auer, Harry A. (See Andrews, William C., assignor.)
- Auer, Harry A. (See Andrews and Auer.)
- Auer, John, New York, N. Y. Pouch. No. 1,296,353; Mar. 4; v. 260; p. 122.
- Auer, Simon, New York, N. Y. Measuring instrument. No. 1,291,711; Jan. 21; v. 258; p. 458.
- Auerbach, Max, Bremen, Germany, assignor to the Firm Exploitatie Maatschappij voor Textielindustrie Auerbach en Co., Utrecht, Netherlands. Mechanism for automatically changing shuttles in looms. No. 1,298,860; Apr. 1; v. 261; p. 56.
- Auerbach, Max, Bremen, Germany, assignor to H. B. Cate, Wassenaar, near The Hague, Netherlands. Shuttle-change mechanism for looms. No. 1,307,334; June 24; v. 263; p. 485.
- Auerochs, Frank L., Benson, Nebr. Sorting-rack for rough-dry laundry. No. 1,306,297; June 10; v. 263; p. 233.
- Aufferi, Angelo, Pittsburgh, Pa. Attachment for radiator-hoods. No. 1,296,611; Mar. 11; v. 260; p. 214.
- Aufiero, Emanuel, Brooklyn, N. Y. Engine-actuated alarm. No. 1,296,603; Mar. 11; v. 260; p. 213.
- Aufiero, Emanuel, Brooklyn, N. Y. Physical instrument for the production of sound-waves. No. 1,317,473; Sept. 30; v. 266; p. 664.
- Aufinger, Francisek, Braddock, Pa. Antiskidding device. No. 1,314,782; Sept. 2; v. 266; p. 57.
- Augenthaler, Harry E. (See Greco, Joseph, assignor.)
- Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Du Lac, Minneapolis, Minn. Brake. No. 1,320,669; Nov. 4; v. 268; p. 58.
- Augmore Manufacturing Co., The. (See Hamilton, Paul H., assignor.)
- August Goertz & Co. (See vom Eigen, Benno, assignor.)
- August, Johannes R. C., Halifax, England. Treatment of soil. No. 1,303,149; May 6; v. 262; p. 128.
- August, Johannes R. C., Halifax, England. Apparatus for the treatment of soil. No. 1,303,150; May 6; v. 262; p. 129.
- August, Joseph, Boston, Mass. Fire-extinguisher. No. 1,297,310; Mar. 18; v. 260; p. 401.
- Augustine, Benjamin F., Buffalo, N. Y. Rotary hydrocarbon-engine. No. 1,316,346; Sept. 16; v. 266; p. 367.
- Augustine, Emily B., assignor to L. C. Brewster, Lisbon, Ohio. Attachment for invalid-beds. No. 1,292,675; Jan. 28; v. 258; p. 715.
- Auld, Elgie C., and J. R. Campbell, Scottdale, Pa. Treating mine-water. No. 1,310,382; July 15; v. 264; p. 502.
- Auld, Elgie C., and J. R. Campbell, Scottdale, Pa. Treating acid mine-water. No. 1,310,383; July 15; v. 264; p. 502.
- Auld, Elgie C., and J. R. Campbell, Scottdale, Pa. Recovering by-products from acid mine-water. No. 1,310,384; July 15; v. 264; p. 502.
- Auld, Frederick H., trustee. (See Bellows, Howard M., assignor.)
- Auld, Frederick H., Columbus, Ohio. Workman's identification-badge. No. 1,298,273; Mar. 25; v. 260; p. 631.
- Auld, Frederick H., Columbus, Ohio. Container for razor-blades. No. 1,310,407; July 22; v. 264; p. 539.
- Auld, John, Chicago, Ill. Eraser-holder. No. 1,292,416; Jan. 28; v. 258; p. 652.
- Auld, John, Chicago, Ill. Eraser structure. No. 1,298,639; Apr. 1; v. 261; p. 4.
- Ault, Edward H., assignor to The Bauer Brothers Company, Springfield, Ohio. Treating cotton-seed for separating meats from hulls. No. 1,306,991; June 17; v. 263; p. 393.
- Aungst, Grover C., Mansfield, Ohio. Candle-holder. No. 1,299,537; Apr. 8; v. 261; p. 237.
- Auperl, Harry, New York, N. Y. Automobile-lock. No. 1,316,407; Sept. 16; v. 266; p. 378.
- Aurand, Frank E., Oak Park, assignor of one-half to G. W. Lunn, Riverside, Ill. Commutator-slotting machine. No. 1,303,011; May 6; v. 262; p. 102.
- Aurand, Frank E., Oak Park, assignor of one-half to H. R. Wahl, Chicago, Ill. Clutch. No. 1,306,513; June 10; v. 263; p. 273.
- Aurele, Frank M. (See Janes, Clyde M., assignor.)
- Aurora Company, The. (See MacQuesten, William D., assignor.)
- Ausbrooks, James A. (See Taylor, Ewing H., assignor.)
- Aust, Arthur A., Bedford, Ohio. Rotary pump. No. 1,321,585; Nov. 11; v. 268; p. 295.
- Austen, Earl S., Canastota, N. Y. Portable bridge for vehicles. No. 1,324,291; Dec. 9; v. 269; p. 246.
- Auster, Aaron, New York, N. Y. Sewing-machine attachment. No. 1,298,914; Apr. 1; v. 261; p. 68.
- Austin, Allen C., Syracuse, N. Y. Flexible coupling for conduits. No. 1,290,869; Jan. 14; v. 258; p. 230.
- Austin, Andrew D., San Francisco, Cal. Aero safety device. No. 1,296,736; Mar. 11; v. 260; p. 243.
- Austin, Arthur O., Barborton, assignor to The Ohio Brass Company, Mansfield, Ohio. Separable-part insulator. No. 1,291,713; Jan. 21; v. 258; p. 459.
- Austin, Arthur O., Barborton, assignor to The Ohio Brass Company, Mansfield, Ohio. Wire-hanger. No. 1,321,078; Nov. 11; v. 268; p. 199.
- Austin, Basil G. (See Austin, John T. and B. G.)
- Austin, Basil G., assignor to Austin Organ Company, Hartford, Conn. Pipe-organ reed-pipe. No. 1,323,436; Dec. 2; v. 269; p. 40.
- Austin Brothers. (See Barcroft, Joseph K., assignor.)
- Austin, Charles R., Lawrenceburg, Ky. Coaster-sled. No. 1,294,375; Feb. 18; v. 259; p. 392.
- Austin, Ellsworth W., Plymouth, Conn. Vaporizing attachment for explosive-engines. No. 1,321,079; Nov. 11; v. 268; p. 199.
- Austin, Frank F., Chicago, Ill. Golf-cup. No. 1,297,055; Mar. 11; v. 260; p. 316.
- Austin, Frederick C. (See Bager, Frederic E., assignor.)
- Austin, Frederick C. (See Farrar, Monroe, assignor.)
- Austin, Frederick C. (See Foster, Thomas, assignor.)
- Austin, Frederick C. (See French, James C., assignor.)
- Austin, Frederick C. (See Houghton, Orley C., assignor.)
- Austin, Frederick C. (See Loken, Truls, assignor.)
- Austin, Frederick C. (See Nowell, Herbert T., assignor.)
- Austin, Frederick C. (See Rosendahl, Niles M., assignor.)
- Austin, Frederick C. (See Seidler, Alexander E., assignor.)
- Austin, Henry F., New Orleans, La. Target. No. 1,310,643; July 22; v. 264; p. 582.
- Austin, Henry F., New Orleans, La. Toy gun. No. 1,310,644; July 22; v. 264; p. 582.
- Austin, Henry K., Reading, Mass. Tire-inflating pump. No. 1,304,930; May 27; v. 262; p. 563.
- Austin, Herbert, Bromsgrove, England. Mounting tractors upon their steering-axes and strengthening such axes. No. 1,305,243; June 3; v. 263; p. 3.
- Austin, Hiram J., Wellsboro, Pa. Potato-digging attachment. No. 1,295,671; Feb. 25; v. 259; p. 716.
- Austin, John T., assignor to Austin Organ Company, Hartford, Conn. Pneumato-electric circuit-closer. No. 1,322,506; Nov. 25; v. 268; p. 571.
- Austin, John T. and B. G., assignors to Austin Organ Company, Hartford, Conn. Electrically-governed key-operated mechanism. No. 1,303,626; May 13; v. 262; p. 242.
- Austin Manufacturing Co. (See Liddell, Moses V., assignor.)
- Austin Organ Company. (See Austin, Basil G., assignor.)
- Austin Organ Company. (See Austin, John T., assignor.)
- Austin Organ Company. (See Austin, John T. and B. G., assignors.)
- Austin, Paul P., Jr., Freeport, Tex. Apparatus for fusing sulfur from low-grade ores. No. 1,315,940; Sept. 16; v. 266; p. 291.
- Austin, Raymond R. (See Sheler and Austin.)
- Austin, Thomas R., Ironton, Mo. Egg-tester. No. 1,301,086; Apr. 22; v. 261; p. 637.
- Austin, Walter M., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Constructing electric terminals. No. 1,308,975; July 8; v. 264; p. 206.
- Austin, Walter S., Grand Rapids, Mich. Spring suspension for automobiles. No. 1,291,356; Jan. 14; v. 258; p. 343.
- Austin, Walter S., Grand Rapids, Mich. Spring suspension for motor-vehicles. No. 1,291,357; Jan. 14; v. 258; p. 344.
- Austin, William H., Greenville, S. C. Automobile-lock. No. 1,315,003; Sept. 2; v. 266; p. 97.
- Austin, William P., assignor to Tank Heater Co., Hollis, N. Y. Water-heater. No. 1,291,714; Jan. 21; v. 258; p. 459.
- Austin, Willis E., Minneapolis, Minn. Pneumatic action for musical instruments. No. 1,295,672; Feb. 25; v. 259; p. 716.
- Austral Window Company. (See Myers, Winter W., assignor.)
- Austin, Z. H., trustee. (See Sherman, H. E. and C. E., assignors.)
- Ausubel, Herman, New York, N. Y. Medicine-receptacle. No. 1,320,440; Nov. 4; v. 268; p. 16.
- Autarit-Gesellschaft m. b. H. (See Rechnitzer, Alexander, assignor.)
- Auto Equipment Company, The. (See Olmsted, Osmond W., assignor.)
- Auto License Holder Co. (See Henry, Patrick J., assignor.)

## Alphabetical list of patentees—Continued.

- Auto & Motor Truck Axle Company, The. (See Young, Clifford H., assignor.)
- Auto-Ordnance Corporation. (See Eickhoff, Theodore H., assignor.)
- Auto Pneumatic Action Company, The. (See Johnson, Oscar, assignor.)
- Auto Specialties Manufacturing Co. (See Bair, Clarence L., assignor.)
- Auto Slide & Moving Picture Machine Co. (See Stillwaggon, John H., assignor.)
- Auto Speed Gear Manufacturing Co. (See Bugher, Clarence E., assignor.)
- Auto Tool Co. (See Seelye, Raymond W., assignor.)
- Automatic Carburetor Company. (See Church, Edmund S., assignor.)
- Automatic Container Company. (See Read, Frank P., assignor.)
- Automatic Controller and Manufacturing Company. (See Redfield, Cleveland, assignor.)
- Automatic Development Co. (See Huggins, Marion J., assignor.)
- Automatic Electric Company. (See Andersen, Albert, assignor.)
- Automatic Electric Company. (See Blessing, John G., assignor.)
- Automatic Electric Company. (See Burfeind, Raymond H., assignor.)
- Automatic Electric Company. (See Campbell and Martin, assignors.)
- Automatic Electric Company. See Erickson, Charles J., assignor.)
- Automatic Electric Company. (See Erickson, John, assignor.)
- Automatic Electric Company. (See Fales, Edward D., assignor.)
- Automatic Electric Company. (See Groh, Bernhard C., assignor.)
- Automatic Electric Company. (See Hershey, Harry F., assignor.)
- Automatic Electric Company. (See Keith, Alexander E., assignor.)
- Automatic Electric Company. (See Keith and Blessing, assignors.)
- Automatic Electric Company. (See Long, William A., assignor.)
- Automatic Electric Company. (See Lubberger, Fritz, assignor.)
- Automatic Electric Company. (See Malmberg, Anders M., assignor.)
- Automatic Electric Company. (See Martin, Talbot G., assignor.)
- Automatic Electric Company. (See Martin and Jacobsen, assignors.)
- Automatic Electric Company. (See Mellinger, Edward A., assignor.)
- Automatic Electric Company. (See Meyer, Trygve E., assignor.)
- Automatic Electric Company. (See Powell, Winfred T., assignor.)
- Automatic Electric Company. (See Ray, Arthur J., assignor.)
- Automatic Electric Company. (See Roberts, Homer J., assignor.)
- Automatic Electric Company. (See Schwartz, Michael, assignor.)
- Automatic Electric Company. (See Setter, Michael, assignor.)
- Automatic Electric Company. (See Smith, Arthur B., assignor.)
- Automatic Electric Company. (See Sperry, Arthur B., assignor.)
- Automatic Electric Company. (See Wicks, John, assignor.)
- Automatic Electric Company. (See Willis, Bernard D., assignor.)
- Automatic Electric Company. (See Willis and Martin, assignors.)
- Automatic Electric Company. (See Yanochowski and Hershey, assignors.)
- Automatic Electric Sterilizer Company. (See Koehler, Charles J., assignor.)
- Automatic Enunciator Company. (See Comer, John J., assignor.)
- Automatic Expansion Co. (See Bach, Roeger, and Kuebler, assignors.)
- Automatic Inserting Machine Corporation. (See Penney and Russ, assignors.)
- Automatic Inserting Machine Corporation. (See Penney, Whiteman, and Russ, assignors.)
- Automatic Machine Mfg. Co. (See Melchert and Kohls, assignors.)
- Automatic Manufacturing Company *et al.* (See Merwin, James E., assignor.)
- Automatic Packing & Labeling Company, The. (See Gwinn, George W., assignor.)
- Automatic Packing & Labeling Company. (See Leary, James W., assignor.)
- Automatic Railway Control Company. (See Weil, Maximilian, assignor.)
- Automatic Reclosing Circuit Breaker Company, The. (See Raney, Estelle C., assignor.)
- Automatic Refrigerating Company. (See Marshall, Albert T., assignor.)
- Automatic Reminder Company. (See South, Augustus W., assignor.)
- Automatic Sprinkler Company of America. (See Allen, Arthur E., assignor.)
- Automatic Sprinkler Company of America. (See Lowe, Ernest A., assignor.)
- Automatic Sprinkler Company of Canada. (See Chandler, Elmo M., assignor.)
- Automatic Stemmer Company. (See Eckart, George F., assignor.)
- Automatic Straight Air Brake Company. (See Neal, Spencer G., assignor.)
- Automatic Ticket Selling and Cash Register Company, The. (See Hiesel, Reuben H., assignor.)
- Automatic Truck Brake Co. (See Paschke, Otto H., assignor.)
- Automatic Utilities Co. (See MacNab, Malcolm D., assignor.)
- Automobil- und Eisenbahbedarf G. m. b. H. (See Kurth, Alfred, assignor.)
- Automatic Development Co. (See Huggins, Merion J., assignor.)
- Automotive Manufacturing Company. (See York, Lorne M., assignor.)
- Automotive Parts Co. (See Schwitzer, Louis, assignor.)
- Autopiano Company. (See La Jole, Herbert J., assignor.)
- Autopiano Company. (See Velehradsky, Joseph, assignor.)
- Autopower Company. (See Finch, Edward B., assignor.)
- Autosales Corporation. (See Brandt, John, assignor.)
- Autosales Corporation. (See Cosciglia, Anthony, assignor.)
- Autosales Corporation. (See Grover, Albert D., assignor.)
- Autosales Corporation. (See Grover and Barber, assignors.)
- Autosales Corporation. (See Pann, August C., assignor.)
- Autosales Corporation. (See Smith, Charles F., assignor.)
- Autoyre Company, The. (See Lewis, Arthur J., assignor.)
- Autrey, Benjamin P., Pilot Point, Tex. Railway-tie. No. 1,321,877; Nov. 18; v. 268; p. 401.
- Aved, Maurice H., Harvey, N. D. Garment-supporter. No. 1,298,274; Mar. 25; v. 260; p. 631.
- Averill, Earl A., Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company, Wilmington, Del. Means for cooling compressed air on locomotives. No. 1,293,663; Feb. 11; v. 259; p. 191.
- Averill, Earl A., Mount Vernon, N. Y., assignor to Locomotive Feed Water Heater Company, Wilmington, Del. Locomotive-feed-water heater. No. 1,308,835; July 8; v. 264; p. 180.
- Averill, Rex G., assignor to The Ohio Brass Company, Mansfield, Ohio. Draw-bar carrier. No. 1,305,987; June 10; v. 263; p. 173.
- Averill, Thomas G., Chicago, Ill. Furnace-door. No. 1,311,369; July 29; v. 264; p. 749.
- Averill, Willard C., Jr. (See Andrews, Benjamin, assignor.)
- Averill, Willard C., Jr. (See Andrews and Averill.)
- Avery, Arthur D., and B. Manbert, Los Angeles, Cal. Phonograph-operated game. No. 1,292,228; Jan. 21; v. 258; p. 588.
- Avery Company. (See Bartholomew, John B., assignor.)
- Avery Company. (See Hanson and Upham, assignors.)
- Avery Company. (See Springer, William N., assignor.)
- Avery Company. (See Strite, George T., assignor.)
- Avery, David. (See Avery, Gopp, Stevens, Snow, and Whitcotton.)
- Avery, Henry W., Cleveland, Ohio. Metallic barrel. No. 1,303,532; May 13; v. 262; p. 225.
- Avery, Henry W., Cleveland, Ohio. Metallic barrel. No. 1,319,747; Oct. 28; v. 267; p. 507.
- Avery, Irving F., assignor by mesne assignments, to Ideal Removable Body Co., Chicago, Ill. Removable truck-body. No. 1,293,664; Feb. 11; v. 259; p. 191.
- Avery, John, Yonkers, N. Y. Device for and method of installing joint-filling material in concrete or other types of pavement. No. 1,313,873; Aug. 26; v. 265; p. 465.
- Avery, Lyman A., Green Lake, N. Y. Saw gage and jointer. No. 1,297,433; Mar. 18; v. 260; p. 426.
- Avery, Walter J., Cambridge, Mass. Electric lamp. No. 1,299,538; Apr. 8; v. 261; p. 238.
- Avis, Samuel W., assignor to The Merrow Machine Company, Hartford, Conn. Overseaming-machine. No. 1,319,262; Oct. 21; v. 267; p. 392.
- Avis, Samuel W., assignor to The Hartford Special Machinery Company, Hartford, Conn. Drill-chuck. No. 1,321,969; Nov. 18; v. 268; p. 418.
- Avram, Mois H., assignor to Slocum, Avram and Slocum, Inc., New York, N. Y. Efficiency-recorder. No. 1,309,235; July 8; v. 264; p. 255.
- Awald, John W. (See Wright and Awald.)
- Ax, Georg B., assignor, by mesne assignments, to Ludwigsbergs Verkstads Aktiebolag, Stockholm, Sweden. Compressor. No. 1,306,680; June 17; v. 263; p. 337.
- Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Winding-roller. No. 1,322,747; Nov. 25; v. 268; p. 616.



- Axelrad, Solomon, and I. Hochstadter, New York, N. Y. Obtaining cetyl alcohol. No. 1,290,870; Jan. 14; v. 258; p. 231.
- Axen, John L., Detroit, Mich. Forced-draft device. No. 1,314,563; Sept. 2; v. 266; p. 17.
- Axen, John L., Detroit, Mich., assignor to National Gauge & Equipment Company, La Crosse, Wis. Electric meter. (Reissue.) No. 14,733; Oct. 7; v. 267; p. 131.
- Axlrod, Meyer, Reading, Pa. Driving mechanism for sewing and other like machines. No. 1,320,194; Oct. 28; v. 267; p. 590.
- Axler, Meier, Toronto, Ontario, Canada. Sharpening device. No. 1,297,776; Mar. 18; v. 260; p. 500.
- Axtell, Clinton J., assignor to General Electric Company, Schenectady, N. Y. Electrical system of power-transmission and regenerative braking. No. 1,298,433; Mar. 25; v. 260; p. 665.
- Aycock, Edward F., Midlothian, Tex. Making tire-fillers. No. 1,315,652; Sept. 9; v. 266; p. 224.
- Ayd, Ignatius J., Baltimore, Md. Exercising device. No. 1,326,013; Dec. 23; v. 269; p. 647.
- Aydukovich, Stephen R., Kansas City, Kans. Cannon. No. 1,320,110; Oct. 28; v. 267; p. 575.
- Aydukovich, Stephen R., Kansas City, Kans. Cannon. No. 1,320,111; Oct. 28; v. 267; p. 575.
- Ayer, Gipson T., Dade City, Fla. Currycomb. No. 1,302,755; May 6; v. 262; p. 52.
- Ayer, Mary B., Newton, Mass. Device for forming waves in hair. No. 1,323,565; Dec. 2; v. 269; p. 65.
- Ayer, William B., Berkeley, Calif. Signal device for automobiles. No. 1,315,697; Sept. 9; v. 266; p. 231.
- Ayers, Elmer T., Sparta, Tenn. Protractor and gage. No. 1,319,942; Oct. 28; v. 267; p. 544.
- Ayers, Theodore S., St. Louis, Mo. Steam-condensation meter. No. 1,314,039; Aug. 26; v. 265; p. 497.
- Ayling, John, Vancouver, British Columbia, Canada. Tire-tool. No. 1,326,830; Dec. 30; v. 269; p. 848.
- Aylor, William E., and M. A. McGuff, Dayton, Ohio. Cotter-pin extractor. No. 1,319,829; Oct. 28; v. 267; p. 523.
- Aylsworth, Howard G., assignor of one-third to G. A. Dolan and one-third to W. Wolf, San Francisco, Cal. Photometer. No. 1,290,695; Jan. 7; v. 258; p. 165.
- Aylworth, Ray E., and I. Wiersma, assignors of one-third to H. E. Kilmer, Grand Rapids, Mich. Matched-board layer. No. 1,313,664; Aug. 19; v. 265; p. 392.
- Ayotte, Joseph R., Chicago, Ill. Spark-plug. No. 1,295,099; Feb. 25; v. 259; p. 584.
- Ayotte, Joseph R., Chicago, Ill. Spark-plug. No. 1,318,716; Oct. 14; v. 267; p. 262.
- Ayres, Eugene E., Jr., Chester, assignor to Sharples Specialty Company, West Chester, Pa. Refining liquids. No. 1,297,635; Mar. 18; v. 260; p. 468.
- Ayres, George J., New York, N. Y. Hinge for doors. No. 1,312,667; Aug. 12; v. 265; p. 185.
- Ayres, George R., assignor to Wm. Ayres & Sons, Philadelphia, Pa. Woven fabric. No. 1,310,902; July 22; v. 264; p. 629.
- Ayres, Martha O., Rio Blanco, Colo. Kettle. No. 1,314,180; Aug. 26; v. 265; p. 524.
- Ayres, Richard S., Brookline, Mass. Making pulp heels. No. 1,322,081; Nov. 18; v. 268; p. 438.
- Ayres, Stradley. (See King, William, assignor.)
- Ayvad, Hachig A., Emporia, Va. Life-preserver. No. 1,290,043; Jan. 7; v. 258; p. 7.
- B. Loewenbach & Sons Co. (See Loewenbach, Oscar, assignor.)
- B. Manischewitz Company, The. (See Manischewitz, Jacob U., assignor.)
- B. A. Ballou & Company. (See Goozey, Charles A., assignor.)
- B. and B. Manufacturing Company. (See Balthasar, Harry G., assignor.)
- B. & B. Manufacturing and Drilling Company. (See Mathews, Samuel J., assignor.)
- B. B. Specialty Co. (See Burke and Beckwith, assignors.)
- B. F. Avery & Sons. (See Ray, Charles T., assignor.)
- B. F. Goodrich Company, The. (See Butler, James L., assignor.)
- B. F. Goodrich Company, The. (See Converse, Francis B., assignor.)
- B. F. Goodrich Company, The. (See Converse and Butler, assignors.)
- B. F. Goodrich Company, The. (See Gammeter, John R., assignor.)
- B. F. Goodrich Company, The. (See Gammeter and Bourguignon, assignors.)
- B. F. Goodrich Company, The. (See Harper, Charles L., assignor.)
- B. F. Goodrich Company, The. (See Juve and Hoffman, assignors.)
- B. F. Goodrich Company, The. (See Kohler and Martin, assignors.)
- B. F. Goodrich Company, The. (See Kroeger, Edwin J., assignor.)
- B. F. Goodrich Company, The. (See Pierson, Robert M., assignor.)
- B. F. Goodrich Company, The. (See Raymond and Renner, assignors.)
- B. F. Goodrich Company, The. (See Schweisgood, Charles E., assignor.)
- B. F. Goodrich Company, The. (See Teed, Earl S., assignor.)
- B. F. Sturtevant Company. (See Bentley, Oliver D. II., assignor.)
- B. F. Sturtevant Company. (See Bentley and Gibbs, assignors.)
- B. F. Sturtevant Company. (See Caracristi and Bentley, assignors.)
- B. F. Sturtevant Company. (See Hagen, Harold F., assignor.)
- B. F. Sturtevant Company. (See Ross, John O., assignor.)
- B. J. Johnson Soap Company. (See Remington, Horace W., assignor.)
- B. J. and E. Clein. (See Moisselle, Sol W., assignor.)
- B & K Mfg. Co., The. (See Benedict, Paul M., assignor.)
- B. V. D. Company, The. (See Erlanger, Charles, assignor.)
- B. W. J. Wofford. (See Anderson, John L., assignor.)
- Baade, William H. (See Blankenstein, Richard J., assignor.)
- Baader, Stephan, Philadelphia, assignor, by mesne assignments, to P. E. Donner, Pittsburgh, Pa. Reversing-gear mechanism. No. 1,299,284; Apr. 1; v. 261; p. 252.
- Baash, Lawrence F., Whittier, Calif. Two-prong compound fishing-tool. No. 1,314,484; Aug. 26; v. 265; p. 582.
- Babare, George and N., Tacoma, Wash. Calking-tool. No. 1,291,358; Jan. 14; v. 258; p. 344.
- Babare, Nicholas. (See Babare, George and N.)
- Babb, Delmar W., West Point, Va. Vehicle. No. 1,316,408; Sept. 16; v. 266; p. 379.
- Babbitt, Margaret C., et al. (See Babbitt, William A., assignor.)
- Babbitt, William A., assignor of one-half to M. C. Babbitt and one-half to M. C. Passage, Lockport, N. Y. Latch for automobile doors. No. 1,298,861; Apr. 1; v. 261; p. 56.
- Babcock, Charles A., Lynn, Mass. Toe-dog. No. 1,319,684; Oct. 28; v. 267; p. 495.
- Babcock, Charles S., and F. G. Norton, Chicago, Ill. Telephone-receiver. No. 1,324,222; Dec. 9; v. 269; p. 233.
- Babcock, Guilford C., assignor to Wirebound Patents Company, Chicago, Ill. Box and making the same. No. 1,326,708; Dec. 30; v. 269; p. 814.
- Babcock, Ira J., Chicago, Ill. Gas-collector. No. 1,324,292; Dec. 9; v. 269; p. 246.
- Babcock, Irwin H., assignor of one-fourth to D. C. Main and one-eighth to L. Bennehoff, Alfred, N. Y. Golf-bag support. No. 1,291,359; Jan. 14; v. 258; p. 344.
- Babcock, Oliver M., Chicago, Ill., assignor to Wirebound Patents Company, Kittery, Me. Box. No. 1,320,363; Oct. 28; v. 267; p. 622.
- Babcock, Purl, Redwood, N. Y. Ax. No. 1,291,360; Jan. 14; v. 258; p. 344.
- Babcock & Wilcox Company, The. (See Cole, Willie J., assignor.)
- Babcock & Wilcox Company, The. (See Irish, David J., assignor.)
- Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
- Babcock & Wilcox Company, The. (See Jacobus and Jones, assignors.)
- Babcock & Wilcox Company, The. (See Karns, Linus L., assignor.)
- Babcock & Wilcox Company, The. (See Lewis, Nathan E., assignor.)
- Babcock & Wilcox Company, The. (See Parker, Davy, and Meiklerid, assignors.)
- Babcock & Wilcox Company, The. (See Reilly, William J., assignor.)
- Babcock & Wilcox Company. (See Sargent and Heaton, assignors.)
- Babcock & Wilcox Company, The. (See Sneddon, James P., assignor.)
- Babcock & Wilcox Company, The. (See Webster, Hosea, assignor.)
- Babcock, William H., West Somerville, assignor to American Voting Machine Company, Boston, Mass. Voting mechanism. No. 1,300,686; Apr. 15; v. 261; p. 514.
- Babcock, William P., Elyria, Ohio. Direction-indicator for motor-vehicles. No. 1,326,831; Dec. 30; v. 269; p. 838.
- Babendreer, Albert, Ocean Springs, Miss. Process and apparatus for the circulation of fluids within carriers. No. 1,325,773; Dec. 23; v. 269; p. 602.
- Babendreer, Albert, Ocean Springs, Miss. Circulation apparatus for protecting perishable goods. No. 1,325,774; Dec. 23; v. 269; p. 602.
- Babendreer, Albert, Ocean Springs, Miss. Air-circulating apparatus. No. 1,325,775; Dec. 23; v. 269; p. 603.
- Babis, John, Jr., Philadelphia, Pa. Stylus-holder for talking-machines. No. 1,290,044; Jan. 7; v. 258; p. 7.
- Babkirk, Albert E. (See Sparrow, Alfred J., assignor.)
- Bable, Paul, Los Angeles, Calif. Shoe-closure. No. 1,297,986; Mar. 25; v. 260; p. 570.
- Babst, Jacob, assignor to The Burch Flow Works Company, Crestline, Ohio. Surfacing-machine. No. 1,292,361; Jan. 14; v. 258; p. 345.

## Alphabetical list of patentees—Continued.

- Baca, Jaroslav, Cleveland, Ohio. Drafting-compasses. No. 1,326,318; Dec. 30; v. 269; p. 741.
- Bach, Leopold, and E. Kübler, New York, N. Y. Toy. No. 1,296,036; Mar. 4; v. 260; p. 50.
- Bach, Leopold, and E. Kübler, New York, N. Y. Vest-pocket lock. No. 1,302,890; May 6; v. 262; p. 79.
- Bach, Leopold, F. Roeger, and E. Kübler, New York, N. Y., assignors to Automatic Expansion Co. Inc. Expandable cover. No. 1,322,863; Nov. 25; v. 268; p. 637.
- Bach, Louis S., Chicago, Ill. Necktie. No. 1,294,025; Feb. 11; v. 259; p. 276.
- Bacharach, Herman, assignor to Bacharach Industrial Instrument Company, Pittsburgh, Pa. Pressure-regulating apparatus. No. 1,299,106; Apr. 1; v. 261; p. 112.
- Bacharach Industrial Instrument Company. (See Bacharach, Herman, assignor.)
- Bache, Otto, and C. Berg, San Francisco, Cal. Scraper for boiler hand-holes. No. 1,291,362; Jan. 14; v. 258; p. 345.
- Bache, Sigvald, and L. C. Andersen, Chicago, Ill. Dispensing apparatus. No. 1,319,830; Oct. 23; v. 267; p. 523.
- Bacher, David, New York, N. Y. Display device. No. 1,297,311; Mar. 18; v. 260; p. 401.
- Bachman, Frank H. (See Bachman, Reuben H. and F. H.)
- Bachman, George T., Johnson City, Tenn. Device for maintaining instrument-strings under tension. No. 1,298,862; Apr. 1; v. 261; p. 56.
- Bachman, Hugo J., Denver, Colo., assignor to K. N. Matthews, St. Louis, Mo. Piston. No. 1,322,748; Nov. 25; v. 268; p. 616.
- Bachman, Joseph P., Newark, N. J. Dough-mixing machine. No. 1,290,045; Jan. 7; v. 258; p. 7.
- Bachman, Ludwig, Saugau, Germany. Producing colored decorations on paper articles. No. 1,320,524; Nov. 4; v. 268; p. 31.
- Bachman, Reuben H. and F. H., Allentown, Pa. Fastening device. No. 1,313,049; Aug. 12; v. 265; p. 260.
- Bachman, Ulrich, San Francisco, Cal. Dredger. No. 1,291,635; Jan. 14; v. 258; p. 409.
- Bachman, Walter S., Chicago, Ill. Sterilizing attachment for water-supply pipes. No. 1,321,586; Nov. 11; v. 268; p. 296.
- Bachmann, Siegmund, Chicago, Ill. Box. No. 1,297,636; Mar. 18; v. 260; p. 468.
- Bachmann, Walter, New York, N. Y., assignor to H. Rudolph. Dough-baller. No. 1,302,462; Apr. 29; v. 261; p. 933.
- Bachmayer, Joseph J. (See Saxton and Bachmayer.)
- Bacho, Louis, Alexandria, La. Decoy. No. 1,306,655; June 10; v. 263; p. 293.
- Bacigalupi, Silvio G., et al. (See Stevenot, Louis N., assignor.)
- Backer, Jacob, St. Paul, Minn. Detachable heel. No. 1,320,357; Oct. 28; v. 267; p. 621.
- Backer, Leslie H. (See Morgan and Backer.)
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,296,902; Mar. 11; v. 260; p. 281.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,306,244; June 10; v. 263; p. 224.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,313,158; Aug. 12; v. 265; p. 281.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,324,765; Dec. 9; v. 269; p. 336.
- Backlund, Carl P., St. Louis, Mo. Handling-tool. No. 1,322,864; Nov. 25; v. 268; p. 637.
- Backlund, Isaac A., Chicago, Ill. Automatic damper-regulator. No. 1,308,015; June 24; v. 263; p. 614.
- Backlund, William O., St. Louis, Mo. Rein-buckle. No. 1,299,285; Apr. 1; v. 261; p. 252.
- Backman, Albert W., Lamar, Colo. Self-starter for aeroplane-motors. No. 1,307,231; June 17; v. 263; p. 436.
- Backmyer, Christopher F., Chicago, Ill. Snap-fastener. No. 1,308,140; July 1; v. 264; p. 25.
- Backstrom, Charles A., Crafton, Pa., assignor to Pittsburgh Water Heater Company, Pittsburgh, Pa. Thermostatic controlling mechanism for water-heaters. No. 1,317,951; Oct. 7; v. 267; p. 55.
- Backstrom, Charles A., deceased, Crafton; M. A. Backstrom, administratrix, assignor to Pittsburgh Water Heater Company, Pittsburgh, Pa. Water-heater. No. 1,294,376; Feb. 18; v. 259; p. 392.
- Backstrom, Martha A., administratrix. (See Backstrom, Charles A.)
- Bäckström, Sigurd M. (See Wiberg and Bäckström.)
- Backus, John C., Smethport, Pa. Bowling-pin-setting device. No. 1,319,035; Oct. 21; v. 267; p. 349.
- Backus, John C., Smethport, Pa. Window-frame for fabrics. No. 1,324,872; Dec. 16; v. 269; p. 418.
- Backus, William E., Fitchburg, Mass. Automatic train control and signal apparatus. No. 1,292,987; Feb. 4; v. 259; p. 4.
- Bacon, David J. H., assignor to Delaware Marine Motors Company, Wilmington, Del. Shaft-bearing. No. 1,325,553; Dec. 23; v. 269; p. 562.
- Bacon, Frank W., Los Angeles, Calif. Distance-chart. No. 1,300,808; Apr. 15; v. 261; p. 541.
- Bacon, George M., Salt Lake City, Utah. Rotary valve. No. 1,309,059; July 8; v. 264; p. 223.
- Bacon, George M., Salt Lake City, Utah. Centrifugal separator. No. 1,321,353; Nov. 11; v. 268; p. 252.
- Bacon, George M., Salt Lake City, Utah. Automatic control for centrifugal separators. No. 1,321,354; Nov. 11; v. 268; p. 252.
- Bacon Heater Manufacturing Company, The. (See Bacon, Joseph H., assignor.)
- Bacon, Joseph H., Lakewood, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio. Water-heating device. No. 1,322,865; Nov. 25; v. 268; p. 638.
- Bacon, Mark J., May, Cal. Air-pressure plug. No. 1,292,988; Feb. 4; v. 259; p. 4.
- Bacon, Nathaniel T., Peace Dale, R. I., assignor to The Solvay Process Company, Solvay, N. Y. Recovering salts of potassium from solutions thereof. No. 1,304,931; May 27; v. 262; p. 563.
- Bacon, Nathaniel T., Peace Dale, R. I., assignor to The Solvay Process Company, Solvay, N. Y. Purifying nitrogen. No. 1,304,932; May 27; v. 262; p. 563.
- Bacon, Raymond F., Pittsburgh, Pa., assignor to Newmont Company, New York, N. Y. Preservation of citrus-fruit juices. No. 1,305,244; June 3; v. 263; p. 3.
- Bacon, Raymond F., Pittsburgh, Pa., assignor to Metals Research Company, New York, N. Y. Making soluble sulfids. No. 1,310,151; July 15; v. 264; p. 460.
- Bacon, Raymond F., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Sulfidation and flotation of ores. No. 1,312,668; Aug. 12; v. 265; p. 185.
- Bacon, Thomas P., Oakland, Calif. Combination pressure-gage and circuit-breaker. No. 1,300,107; Apr. 8; v. 261; p. 365.
- Bacon, William M., assignor of one-half to F. W. Mitchell, Chicago, Ill. Printing-machine. No. 1,320,358; Oct. 28; v. 267; p. 621.
- Bader, Edward G., Los Angeles, Calif. Theft-alarm for automobiles. No. 1,307,802; June 24; v. 263; p. 574.
- Bader, Gustav A., Rochester, N. Y. Lens-mounting. No. 1,307,573; June 24; v. 263; p. 532.
- Bader, Gustav A., Rochester, N. Y. Gun. No. 1,322,514; Nov. 25; v. 268; p. 572.
- Bader, Nicholas F. (See Kohler, Nathan, assignor.)
- Badga, Frank H., Burnett, Wis. Stock-watering bowl. No. 1,310,320; July 15; v. 264; p. 491.
- Badger Brass Mfg. Co., The. (See Moru, Carl, assignor.)
- Badger Corrugating Company. (See Sexauer, Gustave F., assignor.)
- Badger Manufacturing Corporation. (See Schwab and Sykes, assignors.)
- Badger Manufacturing Corporation. (See Wasson, Frank A., assignor.)
- Badger, Oliver L., Plainfield, N. J., assignor to Kerr Adjustable Strap Company, Inc., New York, N. Y. Sling-fitting for guns. No. 1,309,431; July 8; v. 264; p. 291.
- Badger, Oliver L., Plainfield, N. J., assignor to Kerr Adjustable Strap Company, Inc., New York, N. Y. Flexible support. No. 1,309,605; July 15; v. 264; p. 361.
- Badger Packard Machinery Co. (See Haussmann, John F., assignor.)
- Badger Tool Company. (See Gardner, Edward B., assignor.)
- Badgley, Norman E., Arcadia, Ind. Pressure-regulator for fire-valves. No. 1,294,377; Feb. 18; v. 259; p. 392.
- Badische Anilin & Soda Fabrik. (See Holt and Steimmig, assignors.)
- Badische Anilin & Soda Fabrik. (See Neresheimer, Bosch, and Mittasch, assignors.)
- Badlat, James, Des Moines, Iowa. Shoe-drying attachment for sole-sewing machines. No. 1,320,665; Nov. 4; v. 268; p. 57.
- Baehr, Gustave, Paris, France. Thumb-nut spanner. No. 1,307,890; June 24; v. 263; p. 590.
- Baehr, William, Milwaukee, Wis. Artificial hand. No. 1,323,671; Dec. 2; v. 269; p. 84.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Phenolic condensation products and making same. No. 1,306,681; June 17; v. 263; p. 337.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Treating tung-oil and coating or impregnating objects therewith. No. 1,312,093; Aug. 5; v. 265; p. 45.
- Baer, Harry A. D., Allentown, Pa. Record-recording device. No. 1,322,515; Nov. 25; v. 268; p. 572.
- Baer, John G., Buffalo, N. Y. Curtain and shade roller support. No. 1,292,417; Jan. 28; v. 258; p. 652.
- Baer, John W., Danvers, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Form-holding means for sole-pressing machines. No. 1,300,549; Apr. 15; v. 261; p. 486.
- Baer, William, Cincinnati, Ohio. Surgical appliance. No. 1,298,434; Mar. 25; v. 260; p. 665.
- Baetz, Henry, St. Louis, Mo. Air-heating apparatus. No. 1,309,977; July 15; v. 264; p. 430.
- Baetz, Henry, St. Louis, Mo. Drying apparatus. No. 1,312,607; Aug. 12; v. 265; p. 173.



*Alphabetical list of patentees—Continued.*

- Bagby, Arthur P., and J. B. Thompson, Birmingham, Ala. Safety elevator appliance. No. 1,302,623; May 6; v. 262; p. 27.
- Bagby, William H., Los Angeles, Calif. Nutcracker. No. 1,322,393; Nov. 18; v. 268; p. 498.
- Bager, Frederic E., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Lateral-discharge excavator. No. 1,290,871; Jan. 14; v. 258; p. 231.
- Bager, Svante R. W. M., assignor to Bucyrus Company, South Milwaukee, Wis. Bank-spud. No. 1,307,574; June 24; v. 263; p. 532.
- Bagg, Hollis B., Watertown, Conn., assignor to Scovill Manufacturing Company. Beam-lock for scales. No. 1,323,887; Dec. 2; v. 269; p. 31.
- Bagley, Frank A., Chicago, Ill. Pocket-index. No. 1,317,261; Sept. 30; v. 266; p. 623.
- Bagley, Orin, Waltham, Mass. Furnace-regulator. No. 1,290,696; Jan. 7; v. 258; p. 165.
- Bagley, William W., New York, N. Y. Towel-cabinet. No. 1,305,048; May 27; v. 262; p. 586.
- Bagshaw, Charles M. (See Mills and Bagshaw.)
- Bagshaw, Charles M., assignor to Gimson & Co. (Leicester) Limited, Leicester, England. Lasting-machine. No. 1,318,827; Oct. 14; v. 267; p. 284.
- Bahre, Rheuben W., Duquoin, Ill. Cotter-pin-extracting tool. No. 1,316,409; Sept. 16; v. 266; p. 379.
- Baier, George W. (See Eisenmann, Hodel, and Baier.)
- Bailer, Frank W., St. Louis, Mo. Cloth pressing and folding machine. No. 1,315,453; Sept. 9; v. 266; p. 189.
- Bailer, Otto P. (See Kraft, Conrad J., assignor.)
- Bailey, Alfred A., et al. (See Bailey, William B., assignor.)
- Bailey, Almont A., Jr., Portland, Oreg. Automatic picture-projecting apparatus. No. 1,325,825; Dec. 23; v. 269; p. 612.
- Bailey, Anna D., assignor to The G. H. Masten Co. Inc., New York, N. Y. Life-preserver. No. 1,313,936; Aug. 26; v. 265; p. 477.
- Bailey, Anna D., New York, N. Y., assignor of one-third to W. R. Davis, Westfield, N. J., and one-third to M. and E. Cribbs, New York, N. Y. Adjustable and collapsible sleeve-form. No. 1,290,872; Jan. 14; v. 258; p. 231.
- Bailey, Arthur A., Seattle, assignor, by mesne assignments, to J. A. Cavanagh, King county, Wash. Oil-burner. No. 1,296,037; Mar. 4; v. 260; p. 50.
- Bailey, Arthur C., Vancouver, Wash. Bicycle-rim. No. 1,311,434; July 29; v. 264; p. 762.
- Bailey, Benjamin F., Minneapolis, assignor to Chas. Weinbagen & Company, St. Paul, Minn. Egg-box. No. 1,324,760; Dec. 9; v. 269; p. 336.
- Bailey, Bert C., Wellsboro, Pa. Automobile transmission mechanism. No. 1,291,715; Jan. 21; v. 258; p. 459.
- Bailey, Charles A., Cromwell, Conn. Toy pistol. No. 1,305,935; June 3; v. 263; p. 20.
- Bailey, Charles A., Cromwell, Conn. Toy pistol. No. 1,307,472; June 24; v. 263; p. 514.
- Bailey, Charles A., Cromwell, Conn. Toy pistol. No. 1,308,141; July 1; v. 264; p. 25.
- Bailey, Charles A., Cromwell, Conn. Toy pistol. No. 1,308,143; July 1; v. 264; p. 25.
- Bailey, Charles W. (See Matteson and Bailey.)
- Bailey, Charles W., and J. H. Stewart, Lynn, Mass.; said Bailey assignor to said Stewart. Blank-feeding mechanism. No. 1,325,185; Dec. 16; v. 269; p. 476.
- Bailey, Clement W., H. S. Denny, and W. H. H. Norris, Langwith, England. Production of ammonium sulfate. No. 1,325,605; Dec. 23; v. 269; p. 571.
- Baier, Effel, Jenkins, Mo. Wireless corn-planter. No. 1,301,214; Apr. 22; v. 261; p. 663.
- Bailey, Elpha E., and J. H. Jacobs, Denver, Colo., assignors of one-half to The Jacobs Specialties Manufacturing Company and one-half to said Jacobs. Apparatus for casting dental inlays. No. 1,320,824; Nov. 4; v. 268; p. 87.
- Bailey, Ervin G., Newton Highlands, assignor to Bailey Meter Company, Boston, Mass. Apparatus for measuring the rate of flow of fluids. No. 1,299,539; Apr. 8; v. 261; p. 238.
- Bailey, Ervin G., Newton Highlands, Mass., assignor to Bailey Meter Company. Measuring the rate of flow of aqueous fluids. No. 1,299,540; Apr. 8; v. 261; p. 238.
- Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Sectional tire-filler. No. 1,322,281; Nov. 18; v. 268; p. 477.
- Bailey, Frederick T., assignor to H. Merritt, Dudley, Mass. Collapsible cloth-reel. No. 1,307,175; June 17; v. 263; p. 426.
- Bailey, George D., assignor to Bailey Non-Stall Differential Corporation, Chicago, Ill. Differential releasing-clutch. No. 1,313,247; Aug. 19; v. 265; p. 314.
- Bailey, George D., and G. T. Rayfield, Chicago, Ill. Coupling. No. 1,316,011; Sept. 16; v. 266; p. 305.
- Bailey, Greenwood, Bradford, England. Means for scouring yarns or threads of fibrous substances. No. 1,315,698; Sept. 9; v. 266; p. 232.
- Bailey, Henry H., Seattle, assignor to H. E. Gleason Company, King county, Wash. Light-bulb protector. No. 1,290,482; Jan. 7; v. 258; p. 113.
- Bailey, Henry J., et al. (See Bauer, Otto V., assignor.)
- Bailey, Homer A., Elberta, Mich. Stovepipe holder and brace. No. 1,304,728; May 27; v. 262; p. 525.
- Bailey, Howard C., St. Louis, Mo. Child's harness. No. 1,320,032; Oct. 28; v. 267; p. 561.
- Bailey, James M. (See McKnight and Bailey.)
- Bailey, John A., Willows, Calif. Water-grass-seed trap. No. 1,300,913; Apr. 15; v. 261; p. 563.
- Bailey, John F., Hanson, assignor of one-half to A. Hampton, Madisonville, Ky. Window blind and curtain hanger. No. 1,323,566; Dec. 2; v. 269; p. 65.
- Bailey Meter Company. (See Bailey, Ervin G., assignor.)
- Bailey Non-Stall Differential Corporation. (See Bailey, George D., assignor.)
- Bailey, Percy S., Swampscott, Mass., assignor to General Electric Company. Head and flood light. No. 1,326,014; Dec. 23; v. 269; p. 647.
- Bailey, Reginald K., Lawrence, Kans. Oxidation of methane. No. 1,319,748; Oct. 28; v. 267; p. 507.
- Bailey, Warder J., and J. M. Robinson, Copen, W. Va. Derailment-brake-applying mechanism. No. 1,320,195; Oct. 28; v. 267; p. 591.
- Bailey, William B., assignor of one-half to A. A. Bailey and one-half to A. P. Van Cleve, Seattle, Wash. Oil-burner. No. 1,298,438; Mar. 25; v. 260; p. 665.
- Bailey, William E., Columbus, Ohio. Garden-tool. No. 1,299,417; Apr. 8; v. 261; p. 210.
- Bailey, William J., Irvington, N. J. Automobile-alarm. No. 1,318,127; Oct. 7; v. 267; p. 89.
- Bailey, William R., Los Angeles, Calif. Current-motor. No. 1,317,538; Sept. 30; v. 266; p. 676.
- Baillie, George, Los Angeles, Calif. Lens-cleaner. No. 1,314,116; Aug. 26; v. 265; p. 512.
- Baillie, John, Pietermaritzburg, Natal, South Africa. Auxiliary air-valve. No. 1,320,441; Nov. 4; v. 268; p. 16.
- Bailly, Arthur F., Trenton, N. J. Folding swing-chair. No. 1,303,012; May 6; v. 262; p. 102.
- Baily, Henry H., Mount Vernon, Ill. Exhibiting apparatus. No. 1,326,832; Dec. 30; v. 269; p. 838.
- Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Reduction-furnace. No. 1,291,716; Jan. 21; v. 258; p. 459.
- Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Container for articles to be heat-treated and the like. No. 1,292,717; Jan. 21; v. 258; p. 459.
- Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Phase-distribution system. No. 1,322,749; Nov. 25; v. 268; p. 616.
- Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Heat-treating and quenching device. No. 1,322,750; Nov. 25; v. 268; p. 616.
- Bain, Benjamin F., Pittsburgh, Pa. Toy. No. 1,314,238; Aug. 26; v. 265; p. 535.
- Bain, Benjamin F., Pittsburgh, and F. L. Shaffer, Bellevue, Pa.; said Shaffer assignor to said Bain. Mechanical toy foot-ball player. No. 1,324,783; Dec. 16; v. 269; p. 402.
- Bain, Forée, La Grange, Ill. Spark-plug. No. 1,319,318; Oct. 21; v. 267; p. 403.
- Bain, Jesse B., Kennedy, N. Y. Automatic push-button recording-scale. No. 1,291,363; Jan. 14; v. 258; p. 345.
- Bain, Joseph S., Cedar Rapids, Iowa. Corn-drier spur. No. 1,322,394; Nov. 18; v. 268; p. 498.
- Bainbridge, George K., Ripon, Calif. Rolling-machine for plastic materials. No. 1,303,013; May 6; v. 262; p. 102.
- Bainbridge, George K., Ripon, Calif. Candy-cutting machine. No. 1,303,151; May 6; v. 262; p. 129.
- Baines, Henry C., Springfield, Mass., assignor, by mesne assignments, to The Cleveland Metal Products Company, Cleveland, Ohio. Treatment of iron or steel or other articles. No. 1,303,627; May 13; v. 262; p. 242.
- Baines, Joseph E., assignor to National Tube Company, Pittsburgh, Pa. Universal chuck. No. 1,295,412; Feb. 25; v. 259; p. 655.
- Baints, Herman V., Amsterdam, Netherlands. Rail-junction. No. 1,317,539; Sept. 30; v. 266; p. 676.
- Bair, Clarence L., St. Joseph, Mich., assignor to Auto Specialties Manufacturing Co., San Francisco, Cal. Body-iron for vehicle-bodies and buckle therefor. No. 1,290,483; Jan. 7; v. 258; p. 114.
- Bair, Clarence L., St. Joseph, Mich., assignor to Auto Specialties Manufacturing Co., San Francisco, Calif. Vehicle-bow-top holder. No. 1,310,519; July 22; v. 264; p. 558.
- Bair, Clarence L., assignor to Auto Specialties Manufacturing Co., St. Joseph, Mich. Vehicle-bow-top holder. No. 1,311,370; July 29; v. 264; p. 750.
- Bair, Clarence L., Detroit, assignor to Auto Specialties Manufacturing Co., St. Joseph, Mich. Bow-top holder for tops with non-detachable rear curtains. No. 1,306,162; June 10; v. 263; p. 205.
- Bair, Edward E., and J. E. Stout, Hanover, Pa.; said Stout assignor to said Bair. Pole-changing switch. No. 1,294,599; Feb. 18; v. 259; p. 445.
- Bair, James A., Tampa, Fla. Grinding-mill. No. 1,301,687; Apr. 22; v. 261; p. 743.
- Bair, Joseph H., Haddonfield, N. J. Lubrication of internal-combustion rotary engines. No. 1,326,833; Dec. 30; v. 269; p. 838.



## Alphabetical list of patentees—Continued.

- Baird, Cassius M. C., Chicago, Ill. Hose construction. No. 1,301,354; Apr. 22; v. 261; p. 691.
- Baird Corn Husker Co. (See Baird, William S., assignor.)
- Baird, Frank, assignor to Pacific Foundry Company, San Francisco, Calif. Valve. No. 1,311,585; July 29; v. 264; p. 789.
- Baird, James, Ardmore Papakura, New Zealand. Automatic candle-extinguisher. No. 1,308,215; July 1; v. 264; p. 38.
- Baird Machine Company, The. (See Lewis, Arthur J., assignor.)
- Baird Motion Picture Machine Co. (See Reney, Jules F., assignor.)
- Baird Motion Picture Machine Company. (See Emory, Robert J., assignor.)
- Baird, William S., Decatur, Ill., assignor to Baird Corn Husker Co. Corn-harvester. No. 1,295,254; Feb. 25; v. 259; p. 619.
- Baird, William S., Decatur, assignor to Baird Corn Husker Co., Champaign, Ill. Snapping-roll for corn-harvesting machines. No. 1,295,255; Feb. 25; v. 259; p. 619.
- Balts, Stuart G. (See Fekete and Balts.)
- Balts, Stuart G., and S. I. Fekete, assignors to Hudson Motor Car Company, Detroit, Mich. Tractor. No. 1,305,433; June 3; v. 263; p. 38.
- Bajda, James J., Flushing, N. Y. Condenser. No. 1,317,262; Sept. 30; v. 266; p. 623.
- Baker, Abner D., Swanton, Ohio. Metal wheel for steam and gas tractors. No. 1,296,904; Mar. 11; v. 260; p. 282.
- Baker, Abner D., Swanton, Ohio, assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Grain-saving device for threshing-machines. No. 1,296,903; Mar. 11; v. 260; p. 282.
- Baker, Alfred, et al., trustees. (See Friedrich, Gustav J., assignor.)
- Baker, Arthur F., Sedro Woolley, Wash., assignor to The Perfecto Gear Differential Co., Seattle, Wash. Driving-gear for motor-vehicles. No. 1,309,978; July 15; v. 264; p. 430.
- Baker, Arthur R., assignor to Hercules Electric Company, Indianapolis, Ind. Mounting for magneto-igniters. No. 1,306,134; June 10; v. 263; p. 200.
- Baker, B. Franklin, St. Stephen, New Brunswick, Canada. Ticket-case. No. 1,309,173; July 8; v. 264; p. 243.
- Baker, Bertram D., Wyld Green, England. Covering and incasing articles. No. 1,300,550; Apr. 15; v. 261; p. 487.
- Baker Brothers. (See Hallenbeck, George E., assignor.)
- Baker, Burke, Houston, Tex., assignor to American Briquet Company. Means for drying briquets. No. 1,324,758; Dec. 9; v. 269; p. 335.
- Baker, Charles H., New York, N. Y. Cornet. No. 1,317,065; Sept. 23; v. 266; p. 550.
- Baker, Charles J. (See Klyne and Baker.)
- Baker, Charles W., Omaha, Nebr. Measuring implement. No. 1,322,395; Nov. 18; v. 268; p. 498.
- Baker, Charles W., Watts, and F. F. Rorabeck, Azusa, Calif. Coupling. No. 1,325,826; Dec. 23; v. 269; p. 612.
- Baker and Company. (See Taylor, Arthur B., assignor.)
- Baker, Carol R., Knoxville, Tenn. Hydrovehicle. No. 1,293,665; Feb. 11; v. 259; p. 191.
- Baker, Carol R., Knoxville, Tenn., assignor to E. L. Frantz, trustee, Cleveland, Ohio. Air-cooled engine. No. 1,317,750; Oct. 7; v. 267; p. 17.
- Baker, David C., East Orange, N. J. Awning-hook. No. 1,308,519; July 1; v. 264; p. 93.
- Baker, Dexter C., and G. H. Derrick, Oakland, and C. D. Pruitt, San Francisco, Calif.; said Dexter C. Baker assignor to J. E. Baker, Oakland, Calif. Fluid-power transmission. No. 1,317,415; Sept. 30; v. 266; p. 652.
- Baker, Earl C., Sigel, Ill. Explosive-engine attachment. No. 1,291,718; Jan. 21; v. 258; p. 460.
- Baker, Edward, Oneonta, N. Y. Suit-box. No. 1,319,263; Oct. 21; v. 267; p. 393.
- Baker, Edward O., Shanghai, China. Writing instrument. No. 1,319,556; Oct. 21; v. 267; p. 448.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable clutch-rim. No. 1,299,541; Apr. 8; v. 261; p. 238.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Vehicle-wheel. No. 1,307,473; June 24; v. 263; p. 515.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable wheel-rim. No. 1,310,047; July 15; v. 264; p. 441.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable rim and complementary wheel. No. 1,310,048; July 15; v. 264; p. 442.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable rim. No. 1,314,932; Sept. 2; v. 266; p. 83.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable wheel-rim. No. 1,314,933; Sept. 2; v. 266; p. 84.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable rim. No. 1,314,934; Sept. 2; v. 266; p. 84.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable-rim construction for automobiles. No. 1,314,935; Sept. 2; v. 266; p. 84.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable rim. No. 1,314,936; Sept. 2; v. 266; p. 84.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Automobile-wheel. No. 1,314,937; Sept. 2; v. 266; p. 84.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Transplit demountable rim. No. 1,314,938; Sept. 2; v. 266; p. 85.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel. No. 1,320,999; Nov. 4; v. 268; p. 121.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel. No. 1,321,000; Nov. 4; v. 268; p. 121.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel. No. 1,321,001; Nov. 4; v. 268; p. 121.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for motor-trucks. No. 1,321,002; Nov. 4; v. 268; p. 122.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel for use with pneumatic tires. No. 1,324,293; Dec. 9; v. 269; p. 246.
- Baker, Erle K., assignor, by mesne assignments, to himself and C. G. Hawley, Chicago, Ill. Pneumatic-tire casing. No. 1,314,930; Sept. 2; v. 266; p. 83.
- Baker, Erle K., assignor to himself and C. G. Hawley, Chicago, Ill. Making pneumatic-tire casings or the like. No. 1,314,931; Sept. 2; v. 266; p. 83.
- Baker, Frank. (See Nathan, Rintoul, and Baker.)
- Baker, Frank, Barborton, Ohio. Vehicle-signal. No. 1,302,756; May 6; v. 262; p. 52.
- Baker, Fred H. (See Murphy, John M., assignor.)
- Baker, Fred L., et al. (See Durant, Herbert U., assignor.)
- Baker, Frederick J., Dayton, Ohio. Differential gearing. No. 1,296,256; Mar. 4; v. 260; p. 100.
- Baker, Frederick M. (See Lay and Baker.)
- Baker, Frederick W., and J. S. Foley, Stourbridge, England. Detachable rim. No. 1,290,873; Jan. 14; v. 258; p. 232.
- Baker, George, Goldfield, Colo. Sound-controlled dirigible torpedo. No. 1,312,510; Aug. 12; v. 265; p. 153.
- Baker, George M., Bath, N. Y. Rail-fastener. No. 1,298,863; Apr. 1; v. 261; p. 57.
- Baker, George H., assignor to one-half to O. A. Banta, Seattle, Wash. Window-shade fastener. No. 1,315,589; Sept. 9; v. 266; p. 213.
- Baker, George R., London, and J. W. Owen, Plymouth, England. Bread-making. No. 1,312,094; Aug. 5; v. 265; p. 46.
- Baker, George S. (See Shaw and Baker.)
- Baker, Hartley O., Pueblo, Colo. Reversing valve-gear. No. 1,314,847; Sept. 2; v. 266; p. 69.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co. Inc., Pueblo, Colo. Hydrocarbon-burner. No. 1,323,998; Dec. 2; v. 269; p. 146.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co. Inc., Pueblo, Colo. Electrically-heated spray-valve. No. 1,323,999; Dec. 2; v. 269; p. 146.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co. Inc., Pueblo, Colo. Primary or pilot burner. No. 1,324,000; Dec. 2; v. 269; p. 146.
- Baker, Henry, administrator. (See Nathan, Rintoul, and Baker.)
- Baker, Howard A., El Paso, Tex. Brake-actuating mechanism for automobiles. No. 1,315,454; Sept. 9; v. 266; p. 189.
- Baker, Howard E., Ash, Oreg. Silo. No. 1,304,521; May 20; v. 262; p. 449.
- Baker Ice Machine Company. (See Hoeschen, Henry A., assignor.)
- Baker, James S., Fort Smith, Ark. Pasting-table for paper-hangers. No. 1,290,046; Jan. 7; v. 258; p. 8.
- Baker, James S., assignor to one-sixth to E. W. Rogers, one-sixth to J. N. White, and one-half to T. W. Hunter, Texarkana, Tex. Signal. No. 1,322,396; Nov. 18; v. 268; p. 499.
- Baker, Jay E. (See Baker, Dexter C., assignor.)
- Baker, John K., Irwin, and T. E. McGuire, East Pittsburgh, Pa. Electric welding-tool. No. 1,313,572; Aug. 19; v. 268; p. 375.
- Baker, John S., Los Angeles, assignor, by mesne assignments, to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-cooking machine. No. 1,315,072; Sept. 2; v. 266; p. 110.
- Baker, John S., Los Angeles, assignor, by mesne assignments, to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-cooking machine. No. 1,315,073; Sept. 2; v. 266; p. 110.
- Baker, John S., Los Angeles, assignor, by mesne assignments, to Anderson-Barngrover Mfg. Co., San Jose, Calif. Cooking apparatus. No. 1,315,074; Sept. 2; v. 266; p. 110.
- Baker, John S., Los Angeles, assignor, by mesne assignments, to Anderson-Barngrover Mfg. Co., San Jose, Calif. Cooking apparatus. No. 1,315,075; Sept. 2; v. 266; p. 110.



- Baker, John S., Los Angeles, assignor, by mesne assignments, to Anderson-Barngrover Mfg. Co., San Jose, Calif. Cooking apparatus. No. 1,315,076; Sept. 2; v. 266; p. 110.
- Baker, Joseph C., assignor of one-half to J. L. Rokey, Denver, Colo. Thermal circuit-closer. No. 1,311,204; July 29; v. 264; p. 719.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Pump. No. 1,324,294; Dec. 9; v. 269; p. 246.
- Baker, Milo A., et al. (See Durant, Herbert U., assignor.)
- Baker Motor Vehicle Company, The. (See Gruenfeldt, Emil, assignor.)
- Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,306,514; June 10; v. 263; p. 273.
- Baker, Nelson M., and H. K. Parsons, assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,303,628; May 13; v. 262; p. 243.
- Baker, Ralph, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Welding-tool. No. 1,303,230; May 13; v. 262; p. 172.
- Baker, Robert H., and E. W. Mason, San Diego, Cal. Car-buretor. No. 1,292,229; Jan. 21; v. 258; p. 588.
- Baker, Robert W., Blanchard, Wash. Lock-nut. No. 1,296,038; Mar. 4; v. 260; p. 51.
- Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hartley O., assignor.)
- Baker, Stephen D., New York, N. Y. Wall-fixture element. No. 1,311,635; July 29; v. 264; p. 799.
- Baker, Thomas W. (See Magee, Frederick W., assignor.)
- Baker, Thomas W., Spokane, Wash. Reinforced hollow brick wall. No. 1,318,828; Oct. 14; v. 267; p. 284.
- Baker-Vawter Company. (See Kuel, Ludwig T., assignor.)
- Baker-Vawter Company. (See Manny, Fred L., assignor.)
- Baker, Walter C., Lakewood, assignor to The Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,308,142; July 1; v. 264; p. 25.
- Baker, Walter W., and F. W. Franklin, Syracuse, N. Y. Metal-working machine. No. 1,290,874; Jan. 14; v. 258; p. 232.
- Baker, Warren L., Baltimore, Md. Bread-rack. No. 1,322,173; Nov. 18; v. 268; p. 456.
- Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
- Baker, William S. G., London, England, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,313,977; Aug. 26; v. 265; p. 436.
- Bakus, Oscar E., West Allis, assignor, by mesne assignments, to E. M. Bennett, Milwaukee, Wis. Hair-cutting machine. No. 1,326,166; Dec. 30; v. 269; p. 712.
- Balanced Engine Syndicate et al. (See Kerr, Robert P., assignor.)
- Balatti, Louis A., Cottonwood, Ariz. Combined rule and square. No. 1,325,606; Dec. 23; v. 269; p. 571.
- Balcells, Juan, and J. Servitje, Mexico, Mexico. Panning-machine. No. 1,308,216; July 1; v. 264; p. 39.
- Balch, Eben G., Newburyport, Mass. Automobile-signal. No. 1,314,730; Sept. 2; v. 266; p. 48.
- Balch, Eben G., Newburyport, Mass. Aeroplane-signal. No. 1,320,308; Oct. 28; v. 267; p. 612.
- Balcke, Walter H., Winchester, and W. A. Ready, Brighton, assignors to National Company, Boston, Mass. Toy. No. 1,316,474; Sept. 16; v. 266; p. 391.
- Baldock, John S., Clayton, Ind. Power transmission. No. 1,308,614; July 1; v. 264; p. 11.
- Baldor Metal Works. (See Lieberman, Moses, assignor.)
- Baldt, Frederick, Jr., Tarentum, Pa. Anchor. No. 1,297,987; Mar. 25; v. 260; p. 570.
- Baldwin, Abram T., and S. L. Christenson, Detroit, Mich. Air-speed indicator for aeroplanes. No. 1,290,875; Jan. 14; v. 258; p. 232.
- Baldwin, Arthur S., Baltimore, Md. Safety percussion-fuse. No. 1,311,672; July 29; v. 264; p. 806.
- Baldwin, Arthur S., Baltimore, Md. Percussion-fuse. No. 1,311,673; July 29; v. 264; p. 806.
- Baldwin, Arthur S., Baltimore, Md. Safety-fuse. No. 1,311,674; July 29; v. 264; p. 806.
- Baldwin, Arthur S., Baltimore, Md. Gun-carriage-locking device. No. 1,315,358; Sept. 9; v. 266; p. 172.
- Baldwin, Arthur S., Baltimore, Md. Double safety percussion-fuse. No. 1,316,131; Sept. 16; v. 266; p. 326.
- Baldwin, Arthur S., Baltimore, Md. Safety-fuse. No. 1,316,132; Sept. 16; v. 266; p. 326.
- Baldwin, Arthur S., Baltimore, Md. Expansion-joint. No. 1,318,525; Oct. 14; v. 267; p. 226.
- Baldwin, Arthur S., Baltimore, Md. Inertia-operated fuse. No. 1,319,685; Oct. 28; v. 267; p. 495.
- Baldwin, Arthur S., Baltimore, Md. Sear-lock for breech-loading guns. No. 1,324,441; Dec. 9; v. 269; p. 275.
- Baldwin, Clois H., Cherryvale, Kans. Method and apparatus for feeding pulverized fuel. No. 1,320,963; Nov. 4; v. 268; p. 114.
- Baldwin, Curtis C., Nickerson, Kans. Standing-grain harvester. No. 1,290,484; Jan. 7; v. 258; p. 114.
- Baldwin, Curtis C., Sparta, Mich. Thresher. No. 1,290,485; Jan. 7; v. 258; p. 114.
- Baldwin, Frederick M., Los Angeles, Calif. Auto signal display. No. 1,326,127; Dec. 23; v. 269; p. 668.
- Baldwin, George D., Hoboken, N. J. Power-pipe line. No. 1,300,809; Apr. 15; v. 261; p. 541.
- Baldwin, James H., London, England. Device for preventing the fraudulent refilling of bottles and other containers for liquids. No. 1,324,577; Dec. 9; v. 269; p. 301.
- Baldwin, Jesse, Jefferson Barracks, Mo. Tool. No. 1,320,825; Nov. 4; v. 268; p. 88.
- Baldwin, John W., Grand Rapids, Mich. Button-remover. No. 1,291,364; Jan. 14; v. 258; p. 345.
- Baldwin, John W., Grand Rapids, and J. D. Freeman, Kalamazoo, Mich.; said Freeman assignor to said Baldwin. Button-remover. No. 1,294,600; Feb. 18; v. 259; p. 445.
- Baldwin Locomotive Works, The. (See Kirk, Benjamin K., assignor.)
- Baldwin Locomotive Works, The. (See Rushton, Kenneth, assignor.)
- Baldwin, Robert D., assignor to H. P. Rawlings Wall Paper Co., Chicago, Ill. Wall-paper sample-case. No. 1,290,486; Jan. 7; v. 258; p. 114.
- Baldwin, Robert M., Richmond, Va. Road-crossing recorder. No. 1,304,727; May 27; v. 262; p. 526.
- Baldwin, W. M., administrator. (See Kershaw, James L., assignor.)
- Baldwin, William B., and J. Curtin, South Madison, Wis. Means for converting rotary into reciprocating motion. No. 1,307,474; June 24; v. 263; p. 515.
- Baldwin, William J., Brooklyn, N. Y. Apparatus for separating foreign materials from gases. No. 1,292,561; Jan. 28; v. 258; p. 687.
- Baldwin, William J., Brooklyn, N. Y. Cooling and drying air. No. 1,292,562; Jan. 28; v. 258; p. 688.
- Baldwin, Woodson S. (See Winn, Warner A., assignor.)
- Bales, Solomon D., Seattle, Wash. Animal-trap. No. 1,294,364; Feb. 11; v. 259; p. 354.
- Bales, Solomon D., Seattle, Wash. Animal-trap. No. 1,312,943; Aug. 12; v. 265; p. 238.
- Bales, Walter S., assignor of one-fourth to E. M. Sinclair, Des Moines, Iowa. Ditching and earth-moving machine. No. 1,316,074; Sept. 16; v. 266; p. 316.
- Balfour, Guthrie & Co. (See Jones, Paul R., assignor.)
- Balfour-Guthrie Investment Company, The. (See Starke, Paul A., assignor.)
- Balkenol, William F. (See Greig and Balkenol.)
- Balkwill Manganese Crossing Company, The. (See Balkwill and Strong, assignors.)
- Balkwill, Stephen, Cleveland, Ohio, and J. B. Strong, Hillburn, N. Y.; said Strong assignor to The Balkwill Manganese Crossing Company, Cleveland, Ohio. Railway-crossing. No. 1,315,004; Sept. 2; v. 266; p. 97.
- Balkwill, Wesley J., assignor to Multipost Company, Rochester, N. Y. Envelop-sealing and stamp-affixing mechanism. No. 1,324,489; Dec. 9; v. 269; p. 284.
- Balkwill, Wesley J., and W. F. Schweiger, assignors to Multipost Company, Rochester, N. Y. Stamp-feeding machine. No. 1,312,669; Aug. 12; v. 265; p. 185.
- Ball, Albert, and T. Officer, assignors to Sullivan Machinery Company, Claremont, N. H. Rock-drill. No. 1,304,523; May 20; v. 262; p. 449.
- Ball, Albert P., Royal Oak, and F. Zenker, Highland Park, Mich., assignors to Detroit Fuse & Manufacturing Company. Electrical switch. No. 1,291,607; Jan. 14; v. 258; p. 418.
- Ball & Ball Carburetor Company. (See Ball, Frank H., assignor.)
- Ball & Ball Carburetor Company. (See Ball, Frank H. and F. O., assignors.) (Reissue.)
- Ball & Ball Carburetor Company. (See Ball, Frederick O., assignor.)
- Ball, Bert C., Portland, Ore. Logging-engine. No. 1,306,324; June 10; v. 263; p. 238.
- Ball Brothers Glass Manufacturing Company. (See Mingle, Joseph P., assignor.)
- Ball Brothers Glass Manufacturing Company. (See Wadsworth, Frank L. O., assignor.)
- Ball, Earl, Rainier, Ore. Railway signaling system. No. 1,303,450; May 13; v. 262; p. 210.
- Ball Engine Company. (See Armstrong, Edwin J., assignor.)
- Ball, Frank H., assignor to Ball & Ball Carburetor Company, Detroit, Mich. Carburetor. No. 1,292,563; Jan. 28; v. 258; p. 688.
- Ball, Frank H. and F. O., assignors to Ball & Ball Carburetor Company, Detroit, Mich. Carburetor. (Reissue.) No. 14,730; Dec. 30; v. 269; p. 850.
- Ball, Frederick O. (See Ball, Frank H. and F. O.) (Reissue.)
- Ball, Frederick O., assignor to Ball & Ball Carburetor Company, Detroit, Mich. Explosive-engine. No. 1,295,836; Mar. 4; v. 260; p. 4.
- Ball, George, Philadelphia, Pa., assignor to Whiting-Patterson Company, Incorporated. Envelop-machine. No. 1,313,248; Aug. 19; v. 265; p. 314.
- Ball Grain Explosives Company. (See Du Pont, Ernest, assignor.)
- Ball Grain Explosives Company. (See Du Pont, Francis I., assignor.)
- Ball Grain Explosives Company. (See Du Pont, Francis I. and E. P., assignors.)
- Ball, Henry P., Brooklyn, assignor to S. Sternau & Co. Inc., New York, N. Y. Range. No. 1,323,567; Dec. 2; v. 269; p. 65.



## Alphabetical list of patentees—Continued.

- Ball, Horace E. (See Wilber and Ball.)
- Ball, John D. Milwaukee, Wis., assignor to General Electric Company. Means for preventing voltage fluctuation on distribution-circuits. No. 1,313,050; Aug. 12; v. 265; p. 260.
- Ball, John R., Durango, Colo. Ball-mill. No. 1,307,951; June 24; v. 263; p. 602.
- Ball, John R., Durango, Colo. Ball-mill liner. No. 1,307,952; June 24; v. 263; p. 602.
- Ball, Lawrence, Brazil, Ind. Pulling attachment for motor-driven vehicles. No. 1,308,615; July 1; v. 264; p. 111.
- Ball Rolled Tube Corporation. (See Brinkman, Louis H., assignor.)
- Ball, Rowland, La Grange, Ill. Automobile-pusher. No. 1,322,397; Nov. 18; v. 268; p. 499.
- Ball, Thomas F., Kansas City, Mo. Scraper. No. 1,300,551; Apr. 15; v. 261; p. 487.
- Ballard, Alexander, Miltonvale, Kans. Sanitary measuring-faucet. No. 1,302,276; Apr. 29; v. 261; p. 896.
- Ballard, Arthur H., San Francisco, Cal., assignor to Ballard Oil Burning Equipment Company, Boston, Mass. Rotary oil-burner. No. 1,294,026; Feb. 11; v. 259; p. 277.
- Ballard, Fred F., Hot Springs, Ark. Head-carried light. No. 1,294,752; Feb. 18; v. 259; p. 481.
- Ballard, George L., assignor to Wildman Mfg. Co., Norristown, Pa. Circular-knitting machine. No. 1,317,151; Sept. 30; v. 266; p. 603.
- Ballard, Harrie A., Boston, assignor to The Phonoharp Company, East Boston, Mass. Keyed zither. No. 1,298,654; Apr. 8; v. 261; p. 264.
- Ballard, Harrie A., Boston, assignor to The Phonoharp Company, East Boston, Mass. Playing attachment for zithers. No. 1,314,117; Aug. 26; v. 265; p. 512.
- Ballard Oil Burning Equipment Company. (See Ballard, Arthur H., assignor.)
- Ballard, William C., Jr., Ithaca, N. Y., assignor to International Signal Company. Quenched spark-gap. No. 1,324,022; Dec. 9; v. 269; p. 195.
- Ballard, William J., St. Joseph, Mo. Car-replacer. No. 1,298,275; Mar. 25; v. 260; p. 631.
- Ballard, William J., Spokane, Wash. Luggage-carrier. No. 1,317,751; Oct. 7; v. 267; p. 17.
- Ballard, William L., Vermilion, S. D. Support for cultivator-disks. No. 1,296,452; Mar. 4; v. 260; p. 142.
- Ballerstedt, William D., Los Angeles, Calif. Spray-nozzle. No. 1,310,938; July 22; v. 264; p. 635.
- Ballinger, William H., Covington, Ky. Knife. No. 1,315,901; Sept. 9; v. 266; p. 270.
- Ballinger, William L., Bradford, Ohio. Tie-spacer. No. 1,307,291; June 17; v. 263; p. 448.
- Balloira, Mario, Turin, Italy. Direct motor-driven compressor for air and other fluids. No. 1,295,256; Feb. 25; v. 259; p. 619.
- Balloira, Mario, Turin, Italy. Cooling and flow-equalizing manifold for compressors. No. 1,319,831; Oct. 28; v. 267; p. 524.
- Ballou, Alonzo C., Lynchburg, Va. Dumping-body. No. 1,300,810; Apr. 15; v. 261; p. 541.
- Ballou, Eugene H., Pawtucket, R. I., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,292,989; Feb. 4; v. 259; p. 4.
- Ballou, Holden P., New York, N. Y., assignor to C. A. Dall, Plainfield, N. J. Piano-action. No. 1,303,451; May 13; v. 262; p. 210.
- Ballou, Marcus H., Pittsburgh, Pa. Tape attachment. No. 1,303,756; May 13; v. 262; p. 266.
- Ballou, Virgil, Oskaloosa, Iowa. Furnace. No. 1,297,056; Mar. 11; v. 260; p. 316.
- Ballou, Walter B., North Attleboro, Mass. Belt-buckle. No. 1,312,670; Aug. 12; v. 265; p. 184.
- Balog, Alexander, Elmora, Pa. Headlight-carrying means for automobiles. No. 1,320,964; Nov. 4; v. 268; p. 114.
- Balogh, George W., and L. Pilski, Buffalo, N. Y. Transparent sign. No. 1,308,157; July 1; v. 264; p. 28.
- Balthasar, Harry G., assignor to Combination Auto Lock Company, St. Louis, Mo. Valve. No. 1,302,891; May 6; v. 262; p. 79.
- Balthasar, Harry G., St. Louis, Mo., assignor to B. and B. Manufacturing Company. Whistle. No. 1,324,636; Dec. 9; v. 269; p. 312.
- Baltimore Oil Engine Company. (See Wygodsky, Leon, assignor.)
- Baltzley, Edwin, deceased, Glen Ridge, N. J.; L. E. Baltzley, administrator. Wire-binding clip. No. 1,317,416; Sept. 30; v. 266; p. 633.
- Baltzley, Louis E., administrator. (See Baltzley, Edwin.)
- Balvanovich, Alexander, Brooklyn, N. Y. Shoe-closure. No. 1,291,365; Jan. 14; v. 258; p. 346.
- Balk, Dmytro, Medicine Hat, Canada. Collapsible bed. No. 1,301,215; Apr. 22; v. 261; p. 663.
- Balzhsor, William, San Francisco, Calif. Combined protractor and lettering instrument. No. 1,298,640; Apr. 1; v. 261; p. 4.
- Bamberg, Joseph H., Tonawanda, N. Y., assignor to The Aluminum Castings Company, Cleveland, Ohio. Metal-mold. No. 1,296,588; Mar. 4; v. 260; p. 173.
- Bamberg, Joseph H., Tonawanda, N. Y., assignor to The Aluminum Castings Company, Cleveland, Ohio. Casting and making same. No. 1,296,589; Mar. 4; v. 260; p. 173.
- Bamberg, Joseph H., Toledo, assignor to The Aluminum Castings Company, Cleveland, Ohio. Piston-casting. No. 1,296,591; Mar. 4; v. 260; p. 173.
- Bamberg, Joseph H., Toledo, assignor to The Aluminum Castings Company, Cleveland, Ohio. Piston-casting. No. 1,296,592; Mar. 4; v. 260; p. 174.
- Bamberg, Joseph H., Toledo, assignor to The Aluminum Castings Company, Cleveland, Ohio. Piston-casting. No. 1,296,593; Mar. 4; v. 260; p. 174.
- Bamberg, Joseph H., Toledo, Ohio, and H. H. Doehler, assignors to Doehler Die-Casting Company, Brooklyn, N. Y. Metal casting and making same. No. 1,299,655; Apr. 8; v. 261; p. 265.
- Bamberg, Joseph H., Toledo, Ohio, and H. H. Doehler, assignors to Doehler Die-Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,301,895; Apr. 29; v. 261; p. 825.
- Bamberger, Henry, assignor to E. S. Oliver, Newark, N. J. Screw-machine attachment. No. 1,303,152; May 6; v. 262; p. 129.
- Bambrick, Charles L., Brooks, Alberta, Canada. Device for developing roll-films. No. 1,322,398; Nov. 18; v. 268; p. 499.
- Bamforth, Thomas H., assignor of one-half to R. M. Rawlings, Vancouver, British Columbia, Canada. Toy. No. 1,305,638; June 3; v. 263; p. 78.
- Banash, Joe, Indianapolis, Ind. Animal-trap. No. 1,290,697; Jan. 7; v. 258; p. 165.
- Bancroft, Albert F., Haverhill, Mass. Making shoes. No. 1,314,239; Aug. 26; v. 265; p. 535.
- Bancroft, Francis. (See Hickey, Joseph A., assignor.)
- Bancroft, Frank H., assignor to P. Derby & Company, Gardner, Mass. Automatic turning-machine. No. 1,323,569; Dec. 2; v. 269; p. 65.
- Bancroft, George J., Denver, Colo. Separating mica from feldspar. No. 1,310,939; July 22; v. 264; p. 636.
- Bancroft, John S., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Measuring mechanism for composing-machines. No. 1,300,237; Apr. 15; v. 261; p. 420.
- Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type casting and composing machine. No. 1,300,811; Apr. 15; v. 261; p. 541.
- Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Keyboard composing-machine. No. 1,307,719; June 24; v. 263; p. 558.
- Banderob-Chase Company. (See Doman, Herman C., assignor.)
- Bandlow, Walter O., Hyde Park, Mass. Furnace attachment. No. 1,318,639; Oct. 14; v. 267; p. 248.
- Bandman, Albert, New York, N. Y. Syringe. No. 1,293,667; Feb. 11; v. 259; p. 191.
- Bane, James O., St. Paul, Minn. Spring-counterbalance for pumps. No. 1,323,568; Dec. 2; v. 269; p. 65.
- Banfield, Edwin F., New York, N. Y. Elevator control. No. 1,293,668; Feb. 11; v. 259; p. 192.
- Banfield, Frederic E., Jr., L. W. Penney, and A. D. Colby, Newton, assignors to Saco-Lowell Shops, Boston, Mass. Carding-engine. No. 1,290,876; Jan. 14; v. 258; p. 232.
- Banfil, William H., Watertown, Mass. Chemical fire-extinguisher. No. 1,298,157; Mar. 25; v. 260; p. 606.
- Banfil, William H., Watertown, Mass. Chemical fire-extinguisher. (Reissue.) No. 14,753; Nov. 18; v. 268; p. 520.
- Bangert, Henry J., Ferguson, Mo. Material-spreader. No. 1,312,226; Aug. 5; v. 265; p. 70.
- Bangs, Francis M., Deep River, Conn. Mold for ingots. No. 1,302,277; Apr. 29; v. 261; p. 896.
- Baninger, John H., assignor to Guernsey Ball Bearing Company, Jamestown, N. Y. Ball-bearing journal-box for railway-cars and the like. No. 1,314,496; Sept. 2; v. 266; p. 3.
- Banister, George W., Forest Hills, Mass. Bag-support. No. 1,294,753; Feb. 18; v. 259; p. 481.
- Bank, Francis J., New York, N. Y. Work-holder. No. 1,291,719; Jan. 21; v. 258; p. 460.
- Bank, William H. D., Wilmington, N. C. Closet-seat. No. 1,293,666; Feb. 11; v. 259; p. 191.
- Bankers Service Corporation. (See Nisbet, Robert B., Jr., assignor.)
- Banks, Benjamin B., assignor of one-half to A. Brettel, Chicago, Ill. Refrigerator. No. 1,291,366; Jan. 14; v. 258; p. 346.
- Banks, Charles E., assignor of one-half to S. R. Davis, Pittsburgh, Pa. Toy. No. 1,297,777; Mar. 18; v. 260; p. 500.
- Banks, George L., Huntington Park, Cal. Automatic air-gage. No. 1,294,369; Feb. 18; v. 259; p. 391.
- Banks, George L., and O. B. Kirkpatrick, Los Angeles, Calif. Envelop. No. 1,297,778; Mar. 18; v. 260; p. 500.
- Banks, Helena H., Ames, Iowa. Direction-indicator. No. 1,306,093; June 10; v. 263; p. 192.
- Banks, William C., assignor to Ajax Electric Company, Jersey City, N. J. Fuse. No. 1,315,590; Sept. 9; v. 266; p. 213.



- Banner, Frank H. (See Halbleib and Banner.)  
 Banner Gas Range Works. (See Van Riper and Pritschau, assignor.)  
 Banner Machinery Company, The. (See Grove, McCurry, and Bilger, assignors.)  
 Banning, George E., Highland Park, Mich. Ventilator. No. 1,318,042; Oct. 7; v. 267; p. 73.  
 Banning, Katharine S., Los Angeles, Calif. Comfort-bag. No. 1,308,028; July 1; v. 264; p. 4.  
 Banning, W. B. (See Poling, John C., assignor.)  
 Bannister, James T., Portsmouth, Va. Combination hand-plow and wheelbarrow. No. 1,319,686; Oct. 28; v. 267; p. 495.  
 Bannon, John J. (See Hughes, Fred T., assignor.)  
 Bannon, Laurence F., Kingston, N. Y. Tobacco-cleaning apparatus. No. 1,301,638; Apr. 22; v. 261; p. 743.  
 Banschbach, Edward A., Chicago, Ill. Record-holder. No. 1,306,737; June 17; v. 263; p. 846.  
 Banschbach, Edward A., Chicago, Ill. Split-rim air-retainer. No. 1,322,866; Nov. 25; v. 268; p. 638.  
 Banta, John F. (See Moore, Jacob L., assignor.)  
 Banta, John F., Goshen, Ind. Bed-frame construction. No. 1,321,183; Nov. 11; v. 268; p. 219.  
 Banta, Orville A. (See Baker, George H., assignor.)  
 Banwell, Henry C., London, and R. Phillips, Bromley, England, assignors to The National Cash Register Company, Dayton, Ohio. Ticket-printing mechanism. No. 1,309,832; July 15; v. 264; p. 402.  
 Banzett, William H., Bergenfield, N. J., assignor to Mercantile Corporation, Dayton, Ohio. Machine for applying patches to precut-window envelop-blanks. No. 1,297,988; Mar. 25; v. 260; p. 570.  
 Banzhof, Charles P., assignor of three-fourths to The Fidelity Electric Company, Lancaster, Pa. Circuit-controlling means. No. 1,324,371; Dec. 9; v. 269; p. 261.  
 Barab, Jacob, Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Nitroglycols. No. 1,307,032; June 17; v. 263; p. 401.  
 Barab, Jacob, Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Nitroglycols. No. 1,307,033; June 17; v. 263; p. 401.  
 Barab, Jacob, Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Nitroglycols. No. 1,307,034; June 17; v. 263; p. 402.  
 Baran, Andrzej, Fabyan, Conn. Heel-plate. No. 1,304,530; May 27; v. 262; p. 489.  
 Barbarou, Marius J. B., Neuilly-sur-Seine, France. Piston-rod connection for explosion-engines. No. 1,315,653; Sept. 9; v. 266; p. 224.  
 Barbarou, Marius J. B., Neuilly-sur-Seine, France. Mounting the propeller-shafts at the front of motors. No. 1,315,654; Sept. 9; v. 266; p. 224.  
 Barbarou, Marius J. B., Neuilly-sur-Seine, France. Means for lubricating explosive-engines. No. 1,322,174; Nov. 18; v. 268; p. 456.  
 Barbee, James B., Central City, and O. J. Cross, Nederland, Colo. Jig. No. 1,312,429; Aug. 5; v. 265; p. 108.  
 Barbee Wire & Iron Works. (See Kelleher, John F., assignor.)  
 Barbee Wire & Iron Works. (See Spohr, Frank S., assignor.)  
 Barber, Ada S. (See Barber, William, assignor.)  
 Barber, Andrew, Detroit, Mich. Pump-rod bearing. No. 1,302,757; May 6; v. 262; p. 52.  
 Barber Asphalt Paving Company, The. (See Allison, Benjamin A., assignor.)  
 Barber Asphalt Paving Company, The. (See Browne, Frank A., assignor.)  
 Barber Asphalt Paving Company. (See Forrest and Meigs, assignors.)  
 Barber Asphalt Paving Company, The. (See Fowler, Robert L., assignor.)  
 Barber Asphalt Paving Company, The. (See Wiederhold, Henry, assignor.)  
 Barber, Benjamin F. (See Zartman, Samuel B., assignor.)  
 Barber, Bert V. (See Mangini, Andrew, assignor.)  
 Barber-Colman Company. (See Bingham and Parker, assignors.)  
 Barber-Colman Company. (See Colman, Howard D., assignor.)  
 Barber-Colman Company. (See Greenwood, Fred H., assignor.)  
 Barber-Colman Company. (See Parker, Earle D., assignor.) (Reissue.)  
 Barber-Colman Company. (See Peterson, Burt A., assignor.)  
 Barber, E. L. (See Kelly, William J., assignor.)  
 Barber, Earl E. (See Grover and Barber.)  
 Barber, Ernst H., Worcester, Mass. Bathing's appliance. No. 1,325,607; Dec. 23; v. 269; p. 571.  
 Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Side bearing for cars. No. 1,310,556; July 22; v. 264; p. 565.  
 Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,311,371; July 29; v. 264; p. 750.  
 Barber, George. (See Salisbury, Charles K., assignor.)  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-handling machine. No. 1,291,720; Jan. 21; v. 258; p. 460.  
 Barber Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery mechanism for printing-presses. No. 1,299,656; Apr. 8; v. 261; p. 265.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Cutting and folding machine. No. 1,299,657; Apr. 8; v. 261; p. 265.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Web-associating mechanism. No. 1,305,988; June 10; v. 263; p. 173.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting, associating, and folding machine. No. 1,305,989; June 10; v. 263; p. 173.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-delivery mechanism for printing-presses. No. 1,306,398; June 10; v. 263; p. 252.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., and Stonington, Conn. Sheet-delivery mechanism for printing-presses. No. 1,306,399; June 10; v. 263; p. 252.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Delivery mechanism for printing-presses. No. 1,306,682; June 17; v. 263; p. 337.  
 Barber, Howard M., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, New York, N. Y. Printing-press. No. 1,312,151; Aug. 5; v. 265; p. 56.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting and associating mechanism. No. 1,318,043; Oct. 7; v. 267; p. 73.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting and associating mechanism. No. 1,325,974; Dec. 23; v. 269; p. 640.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting and associating mechanism. No. 1,325,975; Dec. 23; v. 269; p. 640.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet collecting and associating mechanism. No. 1,325,976; Dec. 23; v. 269; p. 640.  
 Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Rotary printing-press. No. 1,326,562; Dec. 30; v. 269; p. 787.  
 Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 1,316,553; Sept. 23; v. 266; p. 455.  
 Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Lateral-motion device for car-trucks. No. 1,316,554; Sept. 23; v. 266; p. 455.  
 Barber, Salvatore, Long Island City, N. Y. Shoe. No. 1,304,646; May 27; v. 262; p. 510.  
 Barber, Sherman, Oak Park, Ill. Nut-lock. No. 1,324,023; Dec. 9; v. 269; p. 195.  
 Barber, William, New York, assignor to A. S. Barber, Brooklyn, N. Y. Coupling mechanism. No. 1,324,777; Dec. 16; v. 269; p. 401.  
 Barber, William J., assignor to The Cleveland Gas Burner and Appliance Company, Cleveland, Ohio. Gas-burner. No. 1,293,669; Feb. 11; v. 259; p. 192.  
 Barbet, Emile A., Paris, France. Process and apparatus for the continuous rectification of spirits, petroleum, and benzene. No. 1,319,319; Oct. 21; v. 267; p. 403.  
 Barbet, Emile A., Paris, France. Process and apparatus for the recovery of ether and alcohol vapors contained in the air of factories. No. 1,326,432; Dec. 30; v. 269; p. 762.  
 Barbet, Emile A., assignor to Société E. Barbet & Fils & Cie., Paris, France. Rectifying process and apparatus. No. 1,292,676; Jan. 28; v. 258; p. 715.  
 Barbet, Emile A., assignor to E. Barbet Et Fils Et Compagnie, Paris, France. Evaporator. No. 1,325,461; Dec. 16; v. 269; p. 526.  
 Barbezat, Fritz, La Chaux-de-Fonds, Switzerland. Watch. No. 1,317,474; Sept. 30; v. 266; p. 664.  
 Barbieri, Cesare, and P. Carpenter, Chicago, Ill. Machine for treating photographic prints with fluids. No. 1,292,230; Jan. 21; v. 258; p. 588.  
 Barbour, George H., Pittsburgh, Pa. Rolling flanged sections. No. 1,302,497; May 6; v. 262; p. 4.  
 Barbour, William, Everett, Mass. Carbureter-adjuster. No. 1,299,394; Apr. 1; v. 261; p. 177.  
 Barby, Arthur W. (See Barby, Gilbert M. and A. W.)  
 Barby, Gilbert M. and A. W., Broadmeadows, Victoria, Australia. Reaper-thresher machine. No. 1,315,455; Sept. 9; v. 266; p. 189.  
 Barceloux, Louis, St. Hyacinthe, Quebec, Canada. Skirt-fitting device. No. 1,318,474; Oct. 14; v. 267; p. 216.  
 Barclay, Charles J. D., Ontario, Calif. Signal. No. 1,321,701; Nov. 11; v. 268; p. 317.  
 Barclay, Frank R., Riverdale, Md. Changeable sign. No. 1,315,077; Sept. 2; v. 266; p. 111.  
 Barclay, Ivor G. (See Plym and Barclay.)  
 Barclay, Joseph J. (See Wommer, Frederic, assignor.)  
 Barco Brass & Joint Company. (See Mellor, Clarence, assignor.)



## Alphabetical list of patentees—Continued.

- Barcroft, Joseph K., assignor to Austin Brothers, Inc., Atlanta, Ga. Portable jail-cage. No. 1,320,826; Nov. 4; v. 268; p. 88.
- Barcus, George N., Wabash, Ind. Detachable spring-hinge. No. 1,304,009; May 20; v. 262; p. 351.
- Bard, Everett, Water Valley, Ky. Pencil-clip. No. 1,321,878; Nov. 18; v. 268; p. 401.
- Bard, Oscar L., Detroit, Mich. Cigarette-container. No. 1,324,578; Dec. 9; v. 269; p. 301.
- Bardeen Corporation. (See Bardeen, Hugh A., assignor.)
- Bardeen Corporation. (See Bardeen and Harris, assignors.)
- Bardeen, Hugh A., Los Angeles, Cal. Pipe-straightening device. No. 1,290,047; Jan. 7; v. 258; p. 8.
- Bardeen, Hugh A., Los Angeles, Calif., assignor to Bardeen Corporation. Apparatus for annealing pipe. No. 1,325,827; Dec. 23; v. 269; p. 613.
- Bardeen, Hugh A., and F. W. Harris, Los Angeles, Calif., assignors to Bardeen Corporation. Apparatus for annealing pipe. No. 1,324,001; Dec. 2; v. 269; p. 146.
- Bardo, John B. (See White and Bardo.)
- Bardons and Oliver. (See Thompson, Horace W., assignor.)
- Bardsley, Edward E., Center township, Camden county, N. J. Compression-band. No. 1,322,082; Nov. 18; v. 268; p. 438.
- Bardy, Samuel, Philadelphia, Pa. Motion-picture apparatus. No. 1,316,669; Sept. 23; v. 266; p. 477.
- Barfield, Eric P. (See Wild and Barfield.)
- Barger, John W., Danville, Ill. Collar-button. No. 1,315,902; Sept. 9; v. 266; p. 270.
- Barger, Lorin W., Philadelphia, Pa., assignor to Davenport Locomotive Works, Davenport, Iowa. Steam-pipe system. No. 1,292,990; Feb. 4; v. 259; p. 4.
- Barger, Newton L., and J. P. Donaldson, Amberstale, Va. Loading-machine. No. 1,307,335; June 24; v. 263; p. 489.
- Barger, Omer C., Indianapolis, Ind. Insulator. No. 1,304,247; May 20; v. 262; p. 395.
- Barhite, John, Alden, Iowa. Hog-oller. No. 1,291,367; Jan. 14; v. 258; p. 346.
- Barile, Joseph, et al. (See Gentile, John B., assignor.)
- Baring-Gould, Arthur, Placerville, Cal. Concentrator. No. 1,296,737; Mar. 11; v. 260; p. 243.
- Baring-Gould, Arthur, Placerville, Calif. Ship propulsion. No. 1,315,620; Sept. 9; v. 266; p. 218.
- Bark, Andrew, Seattle, Wash. Luggage-carrier for automobiles. No. 1,310,593; July 22; v. 264; p. 572.
- Barkdull, Calvin H., Seattle, Wash. System of camouflage. No. 1,301,087; Apr. 22; v. 261; p. 637.
- Barker, Arthur D., Yakima, Wash. Bag-holder for coffee-strainers. No. 1,307,475; June 24; v. 263; p. 515.
- Barker, Charles F., Ponca, Nebr. Towing attachment for tractors. No. 1,297,057; Mar. 11; v. 260; p. 317.
- Barker, Charles L., Norwalk, Conn. Check-valve. No. 1,297,312; Mar. 18; v. 260; p. 401.
- Barker, Charles R., assignor to Cleveland Wire Spring Co., Cleveland, Ohio. Red-spring frame. No. 1,325,312; Dec. 16; v. 269; p. 500.
- Barker, England J., Chicago, Ill. Extracting mechanism for autographic registers. No. 1,292,231; Jan. 21; v. 258; p. 588.
- Barker, George R., Chicago, Ill., assignor to Wilson, Roberts & Monroe, New York, N. Y. Ratchet mechanism. No. 1,291,721; Jan. 21; v. 258; p. 460.
- Barker, James, Detroit, Mich. Card-index. No. 1,295,837; Mar. 4; v. 260; p. 4.
- Barker, James, Ann Arbor, Mich. Index arrangement. No. 1,308,471; July 1; v. 264; p. 84.
- Barker, James, Ann Arbor, Mich., assignor to The Tormann Bassett Company. Banking. No. 1,315,591; Sept. 9; v. 266; p. 213.
- Barker, Joel, Irvine, Ky. Self-cleaning spark-plug. No. 1,297,058; Mar. 11; v. 260; p. 317.
- Barker, John, Venice, Cal. Folding canopy-chair. No. 1,296,905; Mar. 11; v. 260; p. 282.
- Barker, John C., London, England. Divisible wheel-rim. No. 1,306,515; June 10; v. 263; p. 273.
- Barker, John J., Arlington Heights, Mass. Turret-lathe. No. 1,316,075; Sept. 16; v. 266; p. 316.
- Barker, John P., Tropico, assignor, by mesne assignments, to C. F. Hunter, Los Angeles, Calif. Internal-combustion motor. No. 1,309,312; July 8; v. 264; p. 269.
- Barker, Parrish, San Francisco, Calif. Direct and laterally leaning, rocking, firm-standing, and pivotal chair. No. 1,301,639; Apr. 22; v. 261; p. 743.
- Barker, Pearl M., Chicago, Ill. Music-instruction device. No. 1,313,449; Aug. 19; v. 265; p. 352.
- Barker, Pearl M., Chicago, Ill. Rhythm-chart. No. 1,319,919; Oct. 28; v. 267; p. 540.
- Barker, Walter S., Cambridge, assignor to A. J. Tower Company, Boston, Mass. Waterproofing garments. No. 1,326,630; Dec. 30; v. 269; p. 800.
- Barker, William R., Vanzant, Mo. Fence-post driver. No. 1,310,272; July 15; v. 264; p. 482.
- Barking Chemicals Company. (See Starobinets, Charles, assignor.)
- Barkwill, William H., Akron, Ohio. Milling-machine. No. 1,308,029; July 1; v. 264; p. 4.
- Barlett Hayward Company, The. (See Bolgiano, Gilbert F., assignor.)
- Barling, Walter H. (See Tarrant and Barling.)
- Barlow, Arthur, New York, assignor of one-half to W. McDougall, Brooklyn, N. Y. Holder for nursing-bottles. No. 1,315,621; Sept. 9; v. 266; p. 218.
- Barlow, Augustus C., and M. E. Roberts, Chicago, Ill. Type-writer. No. 1,302,278; Apr. 29; v. 261; p. 896.
- Barlow, Bronson, Chicago, Ill. Plant-box. No. 1,305,434; June 8; v. 263; p. 38.
- Barlow, James H., Lewiston, Me., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Jacquard loom. No. 1,323,437; Dec. 2; v. 269; p. 40.
- Barlow, Lester P., Philadelphia, Pa., assignor to Martin-Rockwell Corporation, New York, N. Y. Bomb or torpedo. No. 1,317,608; Sept. 30; v. 266; p. 690.
- Barlow, Lester P., Philadelphia, Pa., assignor to Martin-Rockwell Corporation, New York, N. Y. Detonator. No. 1,317,609; Sept. 30; v. 266; p. 691.
- Barlow, Lester P., Philadelphia, Pa., assignor to Martin-Rockwell Corporation, New York, N. Y. Aerial torpedo. No. 1,322,083; Nov. 18; v. 268; p. 439.
- Barlow, Lester P., Philadelphia, Pa., assignor, by mesne assignments, to Martin-Rockwell Corporation, New York, N. Y. Aerial explosive device. No. 1,325,776; Dec. 23; v. 269; p. 603.
- Barlow, Lester P., New Haven, Conn., assignor to Martin-Rockwell Corporation, New York, N. Y. Booster construction for explosive devices. No. 1,317,610; Sept. 30; v. 266; p. 691.
- Barlow, Lester P., New Haven, Conn., assignor to Martin-Rockwell Corporation, New York, N. Y. Booster construction for explosive bombs, &c. No. 1,317,611; Sept. 30; v. 266; p. 691.
- Barlow, Lester P., New Haven, Conn., assignor to Martin-Rockwell Corporation, New York, N. Y. Water-proof drop-bomb. No. 1,317,612; Sept. 30; v. 266; p. 691.
- Barlow, Lester P., New Haven, Conn., assignor to Martin-Rockwell Corporation, New York, N. Y. Aerial bomb. No. 1,318,954; Oct. 14; v. 267; p. 308.
- Barlow, Lester P., New Haven, Conn., assignor to Martin-Rockwell Corporation, New York, N. Y. Bomb and discharging means therefor. No. 1,318,955; Oct. 14; v. 267; p. 309.
- Barlow, Lester P., New Haven, Conn., assignor to Martin-Rockwell Corporation, New York, N. Y. Contact-bomb. No. 1,318,956; Oct. 14; v. 267; p. 309.
- Barnes, Frank, Philadelphia, Pa. Shaft-bearing. No. 1,297,779; Mar. 18; v. 260; p. 501.
- Barnaby, Charles W., New York, N. Y. Type-writer. No. 1,302,892; May 6; v. 262; p. 79.
- Barnaby, Charles W., New York, N. Y. Type-writer. No. 1,308,386; July 1; v. 264; p. 69.
- Barnalo, Fred W., assignor to E. W. Felts and Q. E. Burkhardt, Oklahoma, Okla. Weighing-scoop. No. 1,317,147; Sept. 23; v. 266; p. 566.
- Barnard, James R., Denver, Colo. Window-shade. No. 1,321,587; Nov. 11; v. 268; p. 296.
- Barnes, Albert M., Brighton, England. Search-light and other mirror. No. 1,304,844; May 27; v. 262; p. 548.
- Barnes, Alfred H. (See Fitzgerald and Barnes.)
- Barnes, Charles E., New York, N. Y., assignor of one-half to T. G. Strater, Brookline, Mass. Multifirm chair. No. 1,294,378; Feb. 18; v. 259; p. 393.
- Barnes, Charles E., New York, N. Y., assignor of one-half to T. G. Strater, Brookline, Mass. Leg for multifirm chairs. No. 1,297,059; Mar. 11; v. 260; p. 317.
- Barnes Cushion Tire Co. (See Barnes, Thomas, assignor.)
- Barnes, Edward A., South San Francisco, Calif. Preparing barium hydroxide from barium sulfid. No. 1,316,133; Sept. 16; v. 266; p. 326.
- Barnes, Edward M., Hastings, Mich. Vehicle-spring. No. 1,294,370; Feb. 18; v. 259; p. 391.
- Barnes, Edwin B., assignor of one-third to I. M. Damrell and one-third to O. E. E. Blasser, Boston, Mass. Paint. No. 1,311,945; Aug. 5; v. 265; p. 17.
- Barnes, Elvis L., Oklahoma, Okla. Machine for loading and double-decking cotton-bales in freight-cars. No. 1,316,410; Sept. 16; v. 266; p. 379.
- Barnes, Frank D., Cummings, Calif. Trap-nest. No. 1,304,845; May 27; v. 262; p. 548.
- Barnes, Frederick D., Manchester, N. H. Invalid-bed. No. 1,290,877; Jan. 14; v. 258; p. 233.
- Barnes, Frederick W., and E. C. Allen, assignors to Eastman Kodak Company, Rochester, N. Y. Two-color-picture camera. No. 1,298,641; Apr. 1; v. 261; p. 4.
- Barnes, Herbert, assignor of one-half to R. H. Genter, Chattanooga, Tenn. Refining cast-iron. No. 1,322,516; Nov. 25; v. 268; p. 573.
- Barnes, Hiram P., Laporte, Ind. Electrical resistance. No. 1,318,128; Oct. 7; v. 267; p. 89.
- Barnes, James R., Beaver Crossing, Nebr. Swine-feeding receptacle. No. 1,301,027; Apr. 15; v. 261; p. 588.
- Barnes, John A., West New Brighton, N. Y., and S. W. Schofield, Paterson, N. J., assignors to Locomotive Superheater Company, New York, N. Y. Superheater. No. 1,311,868; Aug. 5; v. 265; p. 3.
- Barnes, John L., Lexington, Ky. Hemp-breaker. No. 1,311,742; July 29; v. 264; p. 819.
- Barnes, John S., Detroit, Mich. Production of articles from wire fabric. No. 1,324,024; Dec. 9; v. 269; p. 195.
- Barnes & Kobert Manufacturing Company, The. (See Benedict, Paul M., assignor.)



- Barnes, Lionel F., Aldershot, England. Lock-switch. No. 1,291,722; Jan. 21; v. 258; p. 460.
- Barnes Manufacturing Company, The. (See Gorman, James C., Jr., assignor.)
- Barnes, May W. (See Barnes, Orange P., assignor.)
- Barnes, Orange P., assignor to M. W. Barnes, Chicago, Ill. Permutation mechanism. No. 1,316,934; Sept. 23; v. 266; p. 525.
- Barnes, Robert H., Powder Springs, Ga. Railway-signal. No. 1,307,476; June 24; v. 263; p. 515.
- Barnes, Robert H., Eutaw, Ala. Automobile speed-governor and lock. No. 1,321,355; Nov. 11; v. 268; p. 252.
- Barnes, Thomas, assignor to Barnes Cushion Tire Co., Denver, Colo. Fastener for cushion-tires on clench-rims. No. 1,292,564; Jan. 28; v. 258; p. 688.
- Barnes, Thomas E., Utica, N. Y., and B. C. Shetter, Lancaster, Pa. Dispensing device. No. 1,319,264; Oct. 21; v. 267; p. 393.
- Barnes, Thornton B., New York, N. Y. Embalming. No. 1,318,957; Oct. 14; v. 267; p. 309.
- Barnes, Walter S. (See Dunlop, Judson, assignor.)
- Barnes, Willard F., assignor to S. V. Barnes, Mill Valley, Calif. Basket-making machine. No. 1,301,355; Apr. 22; v. 261; p. 692.
- Barnes, William E., Cleveland, Ohio. Mute for musical instruments. No. 1,325,313; Dec. 16; v. 269; p. 500.
- Barnes, William J., Macon, Ga. Excavating apparatus. No. 1,315,903; Sept. 9; v. 266; p. 270.
- Barnett, Claude, Ketchikan, Alaska. Means for suspending nets vertically in the water. No. 1,320,033; Oct. 28; v. 267; p. 561.
- Barnett, Edward G., Concordville, Pa. Can-bottom. No. 1,315,941; Sept. 16; v. 266; p. 291.
- Barnett, George M. (See Judy, Andrew W., assignor.)
- Barnett, Grady L., Stratford, Tex. Water-elevator. No. 1,323,146; Nov. 25; v. 268; p. 691.
- Barnett, Herbert, Kingston, Ontario, Canada. Bumper. No. 1,302,279; Apr. 29; v. 261; p. 897.
- Barnett, John F., *et al.* (See Jewett, John C. and W. A., assignors.)
- Barnett, L. T., *et al.* (See Lawrence, William P., assignor.)
- Barnett, Morrisson J., San Francisco, Calif. Timer. No. 1,312,885; Aug. 12; v. 265; p. 227.
- Barnett, Morrisson J., San Francisco, Calif. Centralized ball-mill. No. 1,316,670; Sept. 23; v. 266; p. 478.
- Barnett, Oscar N., *et al.* (See Smith, Jesse G., assignor.)
- Barnett, Otto R. (See Stevens, Arthur L., assignor.)
- Barnett, Stanley, *et al.* (See Warmick, Henry and A., assignors.)
- Barnett, William J., Brooklyn, N. Y. Bowling-alley. No. 1,295,413; Feb. 25; v. 259; p. 655.
- Barney & Berry. (See Stowell, Byron F., assignor.)
- Barney, John M., New York, N. Y. Ash and refuse hoisting device. No. 1,321,412; Nov. 11; v. 268; p. 263.
- Barney, William, *et al.* (See Johnston, Charles E., assignor.)
- Barnhart, Frank H., Bloomdale, Ohio. Safety-harness. No. 1,300,914; Apr. 15; v. 261; p. 563.
- Barnhart, Harry J., assignor to The Osgood Company, Marion, Ohio. Excavating-machine. No. 1,301,803; Apr. 29; v. 261; p. 807.
- Barnhart, John E. (See Hayes and Barnhart.)
- Barnhart, William R., Jr., Wooster, Ohio. Loading device. No. 1,321,781; Nov. 11; v. 268; p. 333.
- Barniak, Feliks, Rosemont, W. Va. Ship construction. No. 1,309,875; July 15; v. 264; p. 410.
- Barniak, Feliks, assignor of one-half to T. Mieczeski, Rosemont, W. Va. Metallic tie and rail-chair. No. 1,326,563; Dec. 30; v. 269; p. 787.
- Barns, Jesse L., St. Clair, Mo. Clothes-basket. No. 1,303,231; May 13; v. 262; p. 172.
- Barns, Jesse L., St. Clair, Mo. Basket. No. 1,306,941; June 17; v. 263; p. 384.
- Barnsante, George H., assignor to George W. Dover, Incorporated, Providence, R. I. Safety-catch for brooches and the like. No. 1,315,273; Sept. 9; v. 266; p. 156.
- Barnstead, Robert P., Boston, Mass. Electric heater. No. 1,324,002; Dec. 2; v. 269; p. 146.
- Barnum, Ernest R., North Bangor, N. Y. Direction-indicator. No. 1,305,323; July 1; v. 264; p. 58.
- Barnum, Leslie F., Detroit, Mich. Making paper reed. No. 1,304,143; May 20; v. 262; p. 375.
- Barnum, Oliver S., Alhambra, Calif. Shade-adjuster. No. 1,311,372; July 29; v. 264; p. 750.
- Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,301,088; Apr. 22; v. 261; p. 637.
- Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,322,995; Nov. 25; v. 268; p. 662.
- Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Company, Milwaukee, Wis. Drum-controller. No. 1,322,996; Nov. 25; v. 268; p. 662.
- Barody, Jean, Constantine, Algeria. Guiding and controlling instrument for cutting clothes. No. 1,307,232; June 17; v. 263; p. 436.
- Baron, Joseph, New York, N. Y. Heat-distributor. No. 1,304,728; May 27; v. 262; p. 526.
- Baron, Julius, and H. Greenwood, Barnesboro, Pa. Attachment for barber-chairs. No. 1,306,211; June 10; v. 263; p. 215.
- Baron, Mark, assignor of one-half to A. Rabinowitsch, Chelsea, Mass. Shoe-heel. No. 1,295,257; Feb. 25; v. 259; p. 620.
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Adjuster for range-finders. No. 1,309,174; July 8; v. 264; p. 243.
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Self-contained base single-observer height-measuring instrument of the range-finder type. No. 1,312,013; Aug. 5; v. 265; p. 30.
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Self-contained base single-observer height-measuring instrument of the range-finder type. No. 1,312,014; Aug. 5; v. 265; p. 30.
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Long-instrumental-base single-observer range-finder. No. 1,320,965; Nov. 4; v. 268; p. 114.
- Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Means for measuring heights or horizontal distances. No. 1,322,751; Nov. 25; v. 268; p. 617.
- Barr, Fletcher L., South Orange, assignor to The Hart Roller Bearing Company, East Orange, N. J. Grinding-machine. No. 1,306,400; June 10; v. 263; p. 252.
- Barr, John H., New York, N. Y. Computing-machine. No. 1,311,373; July 29; v. 264; p. 750.
- Barr, John H., New York, assignor to Remington Type-writer Company, Ilion, N. Y. Type-writing machine. No. 1,300,687; Apr. 15; v. 261; p. 514.
- Barr, John H., New York, assignor to Remington Type-writer Company, Ilion, N. Y. Type-writing machine. No. 1,311,675; July 29; v. 264; p. 806.
- Barr, John H., New York, assignor to Remington Type-writer Company, Ilion, N. Y. Type-writing machine. No. 1,320,034; Oct. 28; v. 267; p. 561.
- Barr, John U., New York, N. Y. Headlight for automobiles or similar vehicles. No. 1,309,679; July 15; v. 264; p. 375.
- Barr, Lester S., Washington, D. C. Airplane-propeller. No. 1,300,552; Apr. 15; v. 261; p. 487.
- Barr, Lester S., Washington, D. C. Airplane-signal. No. 1,324,784; Dec. 16; v. 269; p. 402.
- Barr, Lester S., and B. S. Simmons, Washington, D. C. Advertising device. No. 1,301,216; Apr. 22; v. 261; p. 663.
- Barr, Robert H., Kelso, Wash. Square for tools. No. 1,301,996; Apr. 29; v. 261; p. 844.
- Barr and Stroud Limited. (See French, James W., assignor.)
- Barr, Walter A., assignor to The Polhamus Company, Fort Wayne, Ind. Tool for compressing valve-springs. No. 1,324,099; Dec. 9; v. 269; p. 209.
- Barr, Wilson C., Pittsburgh, Pa. Shock-absorber. No. 1,317,417; Sept. 30; v. 266; p. 633.
- Barracks, Alfred R., assignor to Decatur Union Chemical Company, Decatur, Ill. Toilet-article container. No. 1,321,274; Nov. 11; v. 268; p. 236.
- Barrages Automatiques Societe Anonyme. (See Sommer, Otto, assignor.)
- Barratt, William, Coburg, Victoria, Australia. Atmospheric gas-burner. No. 1,308,472; July 1; v. 264; p. 84.
- Barratt, William T., assignor to Charles S. Kehoe and A. and A. J. Cooper executors, Bennington, Vt. Presser-wheel. No. 1,298,436; Mar. 25; v. 260; p. 665.
- Barrell, William L., Lawrence, Mass. Weft-replenishing loom. No. 1,308,144; July 1; v. 264; p. 25.
- Barrell, William L., Lawrence, Mass. Weft-replenishing loom and magazine therefore. No. 1,321,275; Nov. 11; v. 268; p. 237.
- Barrell, William L., Lawrence, Mass. Magazine for weft-replenishing looms. No. 1,321,276; Nov. 11; v. 268; p. 237.
- Barrellier, Charles, Paris, France. Hand-propelled vehicle. No. 1,308,270; July 1; v. 264; p. 48.
- Barret, James V., *et al.* (See Clyne, Robert G., assignor.)
- Barrett Adding Machine Company. (See Barrett, Glenn J., assignor.)
- Barrett, Arthur, Pittsburgh, Pa. Tool for handling drill-bits. No. 1,318,129; Oct. 7; v. 267; p. 89.
- Barrett, Arthur C., Stockton, Cal. Wrench. No. 1,295,838; Mar. 4; v. 260; p. 4.
- Barrett, Arthur M., Winnetka, Ill. Truck. No. 1,308,750; July 8; v. 264; p. 165.
- Barrett, Cassius M. C., Coupeville, Wash. Potato-digging machine. No. 1,321,782; Nov. 11; v. 268; p. 333.
- Barrett, Clarence E. (See Elser, August G., assignor.)
- Barrett Company, The. (See Adams, Floyd W., assignor.)
- Barrett Company, The. (See Clark, Daniel E., assignor.)
- Barrett Company, The. (See Dodge, Frank E., assignor.)
- Barrett Company, The. (See Downs, Charles R., assignor.)
- Barrett Company, The. (See Howell, Kenneth B., assignor.)
- Barrett Company, The. (See Hultberg, Gottfrid, assignor.)
- Barrett Company, The. (See Judson, Oscar H., assignor.)
- Barrett Company, The. (See Perry, Ray P., assignor.)
- Barrett Company, The. (See Perry and Jack, assignors.)
- Barrett Company, The. (See Potter, Ralph S., assignor.)

## Alphabetical list of patents—Continued.

- Barrett Company, The. (See Rothermel, Curtis J., assignor.)
- Barrett Company, The. (See Swenson, George E., assignor.)
- Barrett Company, The. (See Weiss, John M., assignor.)
- Barrett Company, The. (See Weiss and Downs, assignors.)
- Barrett, Dwight O., Lima, Ohio. Gas and air mixing valve. No. 1,292,677; Jan. 28; v. 258; p. 716.
- Barrett, Dwight O., Lima, Ohio. Adjustable bushing. No. 1,292,678; Jan. 28; v. 258; p. 716.
- Barrett, Eli B., Leonard, Tex. Motor-vehicle heater. No. 1,306,876; June 17; v. 263; p. 372.
- Barrett, Ernest D., assignor to Barrett Motor Starter Corporation, New York, N. Y. Motor-starter. No. 1,313,618; Aug. 19; v. 265; p. 384.
- Barrett, George H. (See Keller, John S., assignor.)
- Barrett, Glenn J., Grand Rapids, Mich., assignor to Barrett Adding Machine Company, Philadelphia, Pa. Computing and recording machine. No. 1,326,564; Dec. 30; v. 269; p. 788.
- Barrett, Harry R., assignor of one-half to W. Bramwell, Philadelphia, Pa. Collapsible back-rest. No. 1,312,774; Aug. 12; v. 265; p. 205.
- Barrett, Joseph C., New York, N. Y. Measuring instrument. No. 1,305,640; June 3; v. 263; p. 79.
- Barrett, Joseph C., Brooklyn, N. Y. Measuring instrument. No. 1,308,751; July 8; v. 264; p. 165.
- Barrett, Joseph C., Brooklyn, N. Y. Rocker-bearing for measuring instruments. No. 1,310,464; July 22; v. 264; p. 548.
- Barrett, Joseph C., Big Foot, Ill. End hitch for harrows. No. 1,318,829; Oct. 14; v. 267; p. 284.
- Barrett Motor Starter Corporation. (See Barrett, Ernest D., assignor.)
- Barrett, Wilbert F., Bradford, Mass. Pin-setting mechanism. No. 1,320,370; Nov. 4; v. 268; p. 3.
- Barri, Emma F., Brooklyn, N. Y. Stocking-supporting clasp. No. 1,324,720; Dec. 9; v. 269; p. 328.
- Barricklow, Irvin E., San Francisco, Calif. Carbureter. No. 1,312,468; Aug. 5; v. 265; p. 116.
- Barricklow, Irvin E., San Francisco, Calif. Carbureter. No. 1,312,469; Aug. 5; v. 265; p. 116.
- Barrie, Salvador, Boston, and I. L. Maranbas, Somerville, Mass. Sheet-stripping machine. No. 1,306,992; June 17; v. 263; p. 393.
- Barro, Anthony F., assignor of one-half to A. A. Dibblee, New York, N. Y. Razor-blade holder. No. 1,306,516; June 10; v. 263; p. 273.
- Barron, Charles A., Woodley, near Stockport, England. Continuous-wire-drawing machine. No. 1,316,935; Sept. 23; v. 266; p. 525.
- Barron, Christopher T., Lawrence, Mass. Pushing attachment for railway-train units. No. 1,320,359; Oct. 28; v. 267; p. 621.
- Barron, Ora M., Scottsbluff, Nebr. Self-oiling mop. No. 1,302,498; May 6; v. 262; p. 4.
- Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Means for securing buttons to fabrics. No. 1,316,012; Sept. 16; v. 266; p. 305.
- Barron, William L., New York, N. Y., and F. E. Osol, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Stitch-forming mechanism for sewing machines. No. 1,290,048; Jan. 7; v. 258; p. 8.
- Barrow, Benjamin D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,321,080; Nov. 11; v. 268; p. 199.
- Barrow, Thomas, Wheatland, assignor to Blaw-Knox Company, Hoboken, Pa. Hollow sheet-metal structure and the manufacture thereof. No. 1,312,152; Aug. 5; v. 265; p. 56.
- Barrows, Allan S., Chicago, Ill. Sheet-metal car-door. No. 1,315,537; Sept. 9; v. 266; p. 204.
- Barrows, Donald S., assignor to The T. H. Symington Company, Rochester, N. Y. Draft-rigging. No. 1,293,299; Feb. 4; v. 259; p. 76.
- Barrows, Donald S., assignor to The T. H. Symington Company, Rochester, N. Y. Draft-rigging. No. 1,293,300; Feb. 4; v. 259; p. 77.
- Barrows, Earle M., assignor of one-half to H. M. Elwell, Minneapolis, Minn. Shotgun-wad. No. 1,291,698; Jan. 21; v. 258; p. 455.
- Barrows, George S., assignor to General Fire Extinguisher Company, Providence, R. I. Gas-burner. No. 1,290,878; Jan. 14; v. 258; p. 233.
- Barrows, Harry W., Omaha, Nebr. Valve. No. 1,291,723; Jan. 21; v. 258; p. 461.
- Barrows, John E., Wenatchee, Wash. Transmission-chain. No. 1,304,933; May 27; v. 262; p. 563.
- Barrs, Frank A. A., Vancouver, British Columbia, Canada. Pivot-hinge. No. 1,299,658; Apr. 8; v. 261; p. 266.
- Barrs, Frank A. A., Vancouver, British Columbia, Canada. Air diffuser and regulator. No. 1,299,659; Apr. 8; v. 261; p. 266.
- Barry, Cornelius J., assignor to F. J. Setchell, Chicago, Ill. Bending and forming machine. No. 1,305,990; June 10; v. 263; p. 174.
- Barry, John. (See Ernest and Barry.)
- Barry, Thomas F., Newark, N. J., assignor to A. Albright, Jr., New York, N. Y. Brush. No. 1,314,939; Sept. 2; v. 266; p. 89.
- Barry, Walter H., Chicago, Ill. Fire-door. No. 1,301,782; Apr. 22; v. 261; p. 774.
- Bars, Richard G., Chicago, Ill. Bottle-stopper. No. 1,314,848; Sept. 2; v. 266; p. 69.
- Barsby, Harry H. (See Stephenson and Barsby.)
- Barsby, Harry H., and W. High, Denver, Colo. Multiform train auditing-check. No. 1,320,112; Oct. 28; v. 267; p. 576.
- Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making magnesium chlorid and the like. No. 1,305,641; June 3; v. 263; p. 79.
- Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making magnesium chlorid and the like. No. 1,305,642; June 3; v. 263; p. 79.
- Barstow Stove Company. (See Starr, Clarence D., assignor.)
- Barstow, Warren H., Toppensish, Wash. Rotary steam-engine. No. 1,310,735; July 22; v. 264; p. 598.
- Barstow, Welch, Spokane, assignor to T. F. Ryan, Seattle, Wash. Thermostat. No. 1,292,991; Feb. 4; v. 259; p. 5.
- Bart, Blasius, Newark, N. J. Electrolytic refining of metals. No. 1,295,100; Feb. 25; v. 259; p. 584.
- Bart, Blasius, Providence R. I., assignor, by mesne assignments, to Dymalkon Metals Corporation, Croton-on-Hudson, N. Y. Galvanoplasty. No. 1,296,453; Mar. 4; v. 260; p. 142.
- Barta, Thomas F., Plsek, N. D. Hinge. No. 1,321,277; Nov. 11; v. 268; p. 237.
- Barteaux, Robert H. (See Given and Barteaux.)
- Bartee, Charles B., Albany, Ala. Perforating-machine. No. 1,304,441; May 20; v. 262; p. 432.
- Bartels, Amandus, Harburg-on-the-Elbe, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of a casein especially adapted for the production of artificial hornlike masses. No. 1,320,666; Nov. 4; v. 268; p. 57.
- Bartels, Reinhard E., Winchester, Mass. Preparing soles. (Reissue.) No. 14,611; Mar. 18; v. 260; p. 544.
- Bartelt, Albert C., Medford, Wis. Motor-driven vehicle. No. 1,291,724; Jan. 21; v. 258; p. 461.
- Bartelt, William, Spokane, Wash. Automobile-radiator protector. No. 1,326,167; Dec. 30; v. 269; p. 712.
- Barth, William A. (See Nordwick and Barth.)
- Barthel, Oliver E., Detroit, Mich. Motor-vehicle frame. No. 1,299,107; Apr. 1; v. 261; p. 112.
- Barthel, Oscar E., New York, N. Y. Rotary steam-engine. No. 1,294,601; Feb. 18; v. 259; p. 446.
- Barthelemy, Emile, Châlons-sur-Saône, France. Device for displaying photographs or the like. No. 1,305,245; June 3; v. 263; p. 3.
- Bartholomew, Cassius M., Columbus, Ohio. Vehicular toy. No. 1,315,005; Sept. 2; v. 266; p. 98.
- Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Gang-plow. No. 1,303,232; May 13; v. 262; p. 172.
- Bartholomew, Ohmer H., Peoria, Ill. Collapsible wheel-rim. No. 1,316,758; Sept. 23; v. 266; p. 494.
- Bartholomew, Oscar L., Grand Rapids, Mich. Rat and mouse exterminator. No. 1,309,606; July 15; v. 264; p. 361.
- Bartholomew, Phineas L., Aurora, Ill. Paper-bag-making machine. No. 1,298,276; Mar. 25; v. 260; p. 632.
- Bartholomew, Ward A., Buffalo, N. Y. Ventilator. No. 1,299,286; Apr. 1; v. 261; p. 153.
- Bartholomew, William, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Bearing for centrifugal extractors. No. 1,301,356; Apr. 22; v. 261; p. 692.
- Bartholomew, William, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Centrifugal-extractor bushing. No. 1,316,076; Sept. 16; v. 266; p. 316.
- Bartine, Wesley, Philadelphia, Pa. Tramway-conveyer. No. 1,310,854; July 22; v. 264; p. 621.
- Bartlebaugh, Benjamin C., Wheeling, W. Va. Gas-heater. No. 1,298,277; Mar. 25; v. 260; p. 632.
- Bartlett, A. H., et al. (See Ford, Everett G., assignor.)
- Bartlett, Benjamin N., Tacoma, and M. Du Vall, Bellingham, Wash. Vessel-raising apparatus. No. 1,300,553; Apr. 15; v. 261; p. 487.
- Bartlett, Earl E., Low Bush, Ontario, Canada. Pumping mechanism. No. 1,306,572; June 10; v. 263; p. 283.
- Bartlett, Edward T., Llanarch, Pa. Means for raising sunken ships. No. 1,309,111; July 8; v. 264; p. 232.
- Bartlett, Edwin E., Nashua, N. H. Arbor-press. No. 1,312,671; Aug. 12; v. 265; p. 185.
- Bartlett, Edwin S., Sr., Butte, Mont. Animal-shears. No. 1,301,089; Apr. 22; v. 261; p. 637.
- Bartlett, George, Schenectady, N. Y. Interchangeable tool for slotting keyways. No. 1,318,830; Oct. 14; v. 267; p. 284.
- Bartlett, George H., assignor to National Paper Products Co., San Francisco, Calif. Paper-box-forming machine. No. 1,305,511; June 3; v. 263; p. 53.
- Bartlett, George H., assignor to National Paper Products Co., San Francisco, Calif. Corrugated-paper tube. No. 1,319,455; Oct. 21; v. 267; p. 429.
- Bartlett, Harry D., Chicago, Ill. Foldable furniture. No. 1,295,839; Mar. 4; v. 260; p. 4.
- Bartlett, Harry D., Delavan, Wis., assignor to J. Kramer, Chicago, Ill. Sofa-bed. No. 1,295,840; Mar. 4; v. 260; p. 5.



- Bartlett, Harry D., Delavan, Wis., assignor to Pullman Couch Company, Chicago, Ill. Sofa-bed. No. 1,296,612; Mar. 11; v. 260; p. 215.
- Bartlett, Kent W., East Chicago, Ind. Strainer. No. 1,326,385; Dec. 30; v. 269; p. 753.
- Bartlett, Theodore, Enderlin, N. D. Dumb-waiter. No. 1,326,433; Dec. 30; v. 269; p. 762.
- Bartlett, William (See Hanton, Archibald N., assignor.)
- Bartlett, William H. (See Freeman, Harry G., assignor.)
- Bartley, Henry W., et al. (See Watkins, Joseph W., assignor.)
- Bartmess, Meigs W. (See Garcelon, Bartmess, and Chantemerle.)
- Barto, John, Cleveland, Ohio. Flying-machine. No. 1,299,287; Apr. 1; v. 261; p. 153.
- Barton, Archilles A., Glendale, Calif. Pump. No. 1,318,130; Oct. 7; v. 267; p. 89.
- Barton, Carleton J., Chicago, Ill. Treating vegetable oils. No. 1,310,977; July 22; v. 264; p. 643.
- Barton, Charles N., Indianapolis, Ind. Ticket-holder. No. 1,302,624; May 6; v. 262; p. 27.
- Barton, Daniel W., Oshkosh, Wis. Electrically-operated musical instrument. No. 1,298,864; Apr. 1; v. 261; p. 57.
- Barton, Edward H., Sprague, Wash. Ratchet-tool. No. 1,309,715; July 15; v. 264; p. 381.
- Barton, Francis M., Chicago, Ill. Metallic reinforcement for concrete structures. No. 1,293,301; Feb. 4; v. 259; p. 77.
- Barton, Francis M., Chicago, Ill. Reinforced-concrete floor construction. No. 1,318,717; Oct. 14; v. 267; p. 262.
- Barton, Frederick C., Fort Wayne, Ind., assignor to General Electric Company. Temperature-compensator for electrical control devices. No. 1,313,051; Aug. 12; v. 265; p. 260.
- Barton, George, Easthampton, Mass., assignor to H. W. Butterworth & Sons Company. Cloth-guiding device for textile machines. No. 1,312,153; Aug. 5; v. 265; p. 57.
- Barton, Henry L., Gary, Ind. Plow. No. 1,292,232; Jan. 21; v. 258; p. 589.
- Barton, James, assignor to The Rosendale-Reddaway Belting & Hose Co., Inc., Newark, N. J. Belting. No. 1,326,565; Dec. 30; v. 269; p. 788.
- Barton, James, and W. Cotterill, assignors to The Rosendale-Reddaway Belting & Hose Co., Inc., Newark, N. J. Tension device for shuttles. No. 1,307,336; June 24; v. 263; p. 489.
- Barton, John W., New York, N. Y. Pressure-fluid regulator. No. 1,316,134; Sept. 16; v. 266; p. 326.
- Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Pigment and paint. No. 1,312,874; Aug. 26; v. 265; p. 465.
- Barton, Louis E., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Rubber and obtaining same. No. 1,322,518; Nov. 25; v. 268; p. 573.
- Barton, Louis E., Niagara Falls, N. Y., and H. A. Gardner, Washington, D. C., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Pliable filled fabric goods. No. 1,317,854; Oct. 7; v. 267; p. 37.
- Barton, Louis E., Niagara Falls, N. Y., and H. A. Gardner, Washington, D. C., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Rubber and obtaining the same. No. 1,326,319; Dec. 30; v. 269; p. 741.
- Barton, Silas J., Chicago, Ill. Tire. No. 1,321,879; Nov. 18; v. 268; p. 402.
- Barton, Timothy W., and W. W. Waldo, Weiser, Idaho. Milk-bucket. No. 1,318,526; Oct. 14; v. 267; p. 226.
- Bartram, Edward E., Los Angeles, Calif. Hand-guard. No. 1,298,153; Mar. 25; v. 260; p. 606.
- Bartram, George C. (See Mitchell and Bartram.)
- Bartram, George C. (See Mitchell, Bartram, and Hirsch.)
- Bartram, George C., East Orange, N. J. Concrete pipe. No. 1,292,992; Feb. 4; v. 259; p. 5.
- Baruch, Samuel, Brooklyn, N. Y. Shoe-tree. No. 1,290,879; Jan. 14; v. 258; p. 233.
- Baruch, Samuel, New York, N. Y. Cooler for internal-combustion-engine radiators. No. 1,323,812; Dec. 12; v. 269; p. 110.
- Baruch, Samuel, New York, N. Y. Cooler for automobile and other radiators. No. 1,323,813; Dec. 2; v. 269; p. 110.
- Baruch, Sydney N., San Francisco, Calif. Apparatus for taking photographs for the stereoscopic projection of motion-pictures. No. 1,307,074; June 17; v. 263; p. 409.
- Barus, Carl, Providence, R. I., and M. Barus, New York, N. Y. Apparatus for determining the speed of vehicles. No. 1,319,036; Oct. 21; v. 267; p. 349.
- Barus, Maxwell. (See Barus, Carl and Maxwell.)
- Basch, David. (See Basch, Mortimer L., assignor.)
- Basch, David, Schenectady, N. Y., assignor to General Electric Company. System of distribution. No. 1,297,780; Mar. 18; v. 260; p. 501.
- Basch, David, Schenectady, N. Y., assignor to General Electric Company. System for the transformation of electrical energy. No. 1,301,640; Apr. 22; v. 261; p. 744.
- Basch, David, Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,315,809; Sept. 9; v. 266; p. 252.
- Basch, Mortimer L., Brooklyn, assignor to D. Basch, New York, N. Y. Skirt-belt. No. 1,293,302; Feb. 4; v. 259; p. 77.
- Basore, John C., assignor of one-half to M. Bressie, Independence, Mo. Chain-coupling. No. 1,299,660; Apr. 8; v. 261; p. 266.
- Basel, Eli A., Kansas City, Mo. Auto power-transmission attachment. No. 1,316,529; Sept. 16; v. 266; p. 403.
- Basel, Eli A., Kansas City, Mo. Auto power-transmission attachment. No. 1,316,530; Sept. 16; v. 266; p. 403.
- Bashinski, Harry, Macon, Ga. Safety attachment for purses. No. 1,298,278; Mar. 25; v. 260; p. 632.
- Bashlin Company, The. (See Clark, Julian W., assignor.)
- Bashlow, Harry I., South Manchester, Conn. Refillable fuse. No. 1,326,834; Dec. 30; v. 269; p. 838.
- Basil, Joseph, and F. Girardi, Detroit, Mich. Trolley-harp. No. 1,306,298; June 10; v. 263; p. 233.
- Baskin, Louis, New York, N. Y. Spark-plug. No. 1,312,511; Aug. 12; v. 265; p. 153.
- Basler Machinery Company. (See Wright, Wallace C., assignor.)
- Basmaison, Pierre, San Francisco, Calif. Extension-bit. No. 1,323,570; Dec. 2; v. 269; p. 66.
- Basman, Anthony M., Detroit, Mich. Rotatable ventilator-hood. No. 1,295,953; Mar. 4; v. 260; p. 30.
- Basolo, Domenith C., and I. K. Shero, Fillmore, Calif. Concrete mixer and conveyer. No. 1,307,803; June 24; v. 263; p. 574.
- Basora, Cleburne A., assignor of one-half to The Koppers Company, Pittsburgh, Pa. Purification of liquids. No. 1,323,239; Dec. 2; v. 269; p. 3.
- Bass, Charles and E. E., Enid, Okla. Beet-harvester. No. 1,290,049; Jan. 7; v. 258; p. 9.
- Bass, Elmer E. (See Bass, Charles and E. E.)
- Bass, Harry B., Yukon, Okla. Door attachment. No. 1,290,488; Jan. 7; v. 258; p. 115.
- Bass, Peter, Chicago, Ill. Combined stool and coat-hanger. No. 1,290,698; Jan. 7; v. 258; p. 166.
- Bass, Rubin, New York, N. Y. Binding-holder. No. 1,291,368; Jan. 14; v. 258; p. 346.
- Bass, T. H. (See Reynolds, Robert E., assignor.)
- Bassett, Alvin J., and J. E. Sharp, assignors to Milwaukee Reliance Boiler Works, Milwaukee, Wis. Combined gas and steam generator. No. 1,314,630; Sept. 2; v. 266; p. 29.
- Bassett, Edgar F., Harwich, Mass. Cranberry-picker. No. 1,309,009; July 8; v. 264; p. 213.
- Bassett, Fred H., Springfield, Mass. Window-shade fixture. No. 1,290,880; Jan. 14; v. 258; p. 233.
- Bassett, Harry P., Cynthia, Ky., assignor of one-third to C. C. Meigs, Philadelphia, Pa., and one-third to C. L. Parker, Washington, D. C. Continuous-action retractor. No. 1,314,849; Sept. 2; v. 266; p. 70.
- Bassett, Robert S., Buffalo, N. Y. Water-meter. No. 1,307,337; June 24; v. 263; p. 489.
- Bassham, John W., Columbia, Tenn. Inner tube. No. 1,312,072; Aug. 5; v. 265; p. 41.
- Bassick Co., The. (See Diss, Albert B., assignor.)
- Bassick Company, The. (See Diss, Daniel B., assignor.)
- Bassinger, William H., Passaic, N. J. Filing-cabinet. No. 1,312,672; Aug. 12; v. 265; p. 185.
- Bassler, Edwin M., Milwaukee, Wis. Gas-burner. No. 1,291,725; Jan. 21; v. 258; p. 461.
- Bast, John D., Canton, Ohio. Automobile-signal. No. 1,320,966; Nov. 4; v. 268; p. 115.
- Bast, Joseph. (See Thompson and Bast.)
- Basta, Mile, Gary, Ind. Hammer. No. 1,304,647; May 27; v. 262; p. 511.
- Bastian, August H., Hillsdale, Oreg. Portable sawing-machine. No. 1,294,222; Feb. 11; v. 259; p. 323.
- Bastian, Earl M., Highmore, S. D. Oil-can attachment. No. 1,298,865; Apr. 1; v. 261; p. 57.
- Bastian, Herbert W., Summit county, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Boot or shoe last. No. 1,325,608; Dec. 23; v. 269; p. 572.
- Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric locomotive or car. No. 1,310,049; July 15; v. 264; p. 442.
- Batchelder, Frank R., Worcester, Mass. Assembling-machine. No. 1,302,280; Apr. 29; v. 261; p. 897.
- Batchelder, Frank R., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Carrier for machine-gun magazines. No. 1,311,869; Aug. 5; v. 265; p. 3.
- Batchelder, Frank R., Worcester, Mass., assignor to Universal Patents Company. Woven carrier. No. 1,325,272; Dec. 16; v. 269; p. 493.
- Batchelder, Frank R., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed-carrier equipment. No. 1,326,015; Dec. 23; v. 269; p. 647.
- Batchelder, Frank R., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed-carrier equipment. No. 1,326,016; Dec. 23; v. 269; p. 647.
- Batchelder, John K. (See Stewart, Blaylock, Vaughan, and Batchelder.)



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- Batchelor, Horton, Sheridan, Wyo. Furnace. No. 1,296,906; Mar. 11; v. 260; p. 282.
- Batdorf, Charles S., Brooklyn, N. Y., assignor to Standard Liquid Recording Company. Dispensing and recording apparatus. (Reissue.) No. 14,586; Jan. 14; v. 258; p. 424.
- Bate, George, Flint, Mich. Spoke-lock. No. 1,299,268; Apr. 1; v. 261; p. 153.
- Bate, Ira D., West Jefferson, Ohio. Gate-operating mechanism. No. 1,307,804; June 24; v. 263; p. 574.
- Bate, James, Ypsilanti, Mich. Die-casting machine. No. 1,292,679; Jan. 28; v. 258; p. 716.
- Bateman, Frederic H., assignor to Bateman Manufacturing Company, Grenloch, N. J. Adjustable mounting for plows. No. 1,294,860; Feb. 18; v. 259; p. 507.
- Bateman Manufacturing Company. (See Bateman, Frederic H., assignor.)
- Bateman Manufacturing Company. (See Willis and Woodworth, assignors.)
- Bateman, William M., Chester, Pa. Anchor. No. 1,316,216; Sept. 16; v. 266; p. 343.
- Bateman, William M., Chester, Pa. Anchor shank and shackle. No. 1,321,356; Nov. 11; v. 268; p. 252.
- Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Tool for tying wire bag-ties. No. 1,306,163; June 10; v. 263; p. 206.
- Bates, Albert H., Cleveland Heights, assignor to The Borden Company, Warren, Ohio. Die-stock. No. 1,305,336; June 3; v. 263; p. 20.
- Bates, Albert H., and A. A. Hobart, Minneapolis, Minn.; said Bates assignor to Emerson Brantingham Company, Rockford, Ill. Back-rest for drivers' seats. No. 1,315,810; Sept. 9; v. 266; p. 252.
- Bates, Alexander C., assignor to Taplex Corporation, New York, N. Y. Storage-receptacle. No. 1,324,025; Dec. 9; v. 269; p. 195.
- Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-upper-shaping machine. No. 1,312,470; Aug. 5; v. 265; p. 116.
- Bates, Arthur, and G. Pegg, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for making clog-shoes. No. 1,326,168; Dec. 30; v. 269; p. 712.
- Bates, Carleton, assignor to United States Glue Company, Milwaukee, Wis. Machinery for solidifying liquefied solids. No. 1,309,995; July 15; v. 264; p. 433.
- Bates, Edith M., (See Wheeler and Bates.)
- Bates, George E., Syracuse, N. Y. Disinfecting device. No. 1,321,357; Nov. 11; v. 268; p. 252.
- Bates, Harry, New York, N. Y. Machine for teaching type-writing. No. 1,319,687; Oct. 28; v. 267; p. 496.
- Bates, Harry H., Joliet, Ill. Tractor. No. 1,295,673; Feb. 25; v. 259; p. 716.
- Bates, Lindell T., New York, N. Y. Depth-shell. No. 1,312,227; Aug. 5; v. 265; p. 70.
- Bates, Lindell T., New York, N. Y. Means for destroying vessels and protecting ships from torpedo attacks. No. 1,313,665; Aug. 19; v. 265; p. 392.
- Bates, Lindon W., New York, N. Y. Method of and apparatus for recording sounds. No. 1,294,861; Feb. 18; v. 259; p. 507.
- Bates, Ralph E., assignor to Okay Motor Manufacturing Company, Inc., Brooklyn, N. Y. Control device for motor-cycles and the like. No. 1,290,699; Jan. 7; v. 258; p. 166.
- Bates, Ralph E., assignor to Okay Motor Manufacturing Company, Inc., Brooklyn, N. Y. Counterbalanced crank-shaft. No. 1,314,497; Sept. 2; v. 266; p. 4.
- Bates, Ralph E., assignor to Okay Motor Manufacturing Company, Inc., Brooklyn, N. Y. Control device for motorcycles and the like. No. 1,323,814; Dec. 2; v. 269; p. 111.
- Bates, Robert, Athens, Tenn. Polish. No. 1,305,684; June 3; v. 263; p. 86.
- Bates, Russell A., assignor to L. D. Taylor, Grand Rapids, Mich. Wheel-bracket. No. 1,301,028; Apr. 15; v. 261; p. 588.
- Bates, Samuel F., Peniel, Tex. Crank. No. 1,322,519; Nov. 25; v. 268; p. 573.
- Bates, Thomas. (See Fulton, John S. S., assignor.)
- Bates Valve Bag Company. (See Bates, Adelmor M., assignor.)
- Bates, William H., Vancouver, Wash. Pneumatic sustaining means for vehicles. No. 1,301,804; Apr. 29; v. 261; p. 807.
- Bates, William H., Jr., Boston, Mass. Metallurgical smoke-filter. No. 1,302,281; Apr. 29; v. 261; p. 897.
- Bathurst, Charles, et al., executors. (See Thomas and Davies.)
- Batrack, Abraham S. (See Hempel, Henry, assignor.)
- Batt, Charles F., Brooklyn, N. Y. Internal-combustion-engine power plant. No. 1,309,236; July 8; v. 264; p. 255.
- Batten, Gideon C., Cincinnati, Ohio. Riddle. No. 1,306,325; June 10; v. 263; p. 238.
- Batterman, John J., assignor to Batterman Rubber Company, Boston, Mass. Rubber overshoe and making same. No. 1,292,993; Feb. 4; v. 259; p. 5.
- Batterman, John J., Boston, assignor, by mesne assignments to Plymouth Rubber Company, Canton, Mass. Rack and foot-rest. No. 1,298,437; Mar. 25; v. 260; p. 665.
- Batterman Rubber Company. (See Batterman, John J., assignor.)
- Battisfore, George E., Marquette, Mich. Nozzle for sand-pumps. No. 1,298,642; Apr. 1; v. 261; p. 5.
- Battles, Ira C., Phoenix, Ariz. Faucet. No. 1,320,967; Nov. 4; v. 268; p. 115.
- Batty, Tom, Drighlington, near Bradford, England. Window-blind. No. 1,326,249; Dec. 30; v. 269; p. 728.
- Baucum, Claud R., Apex, N. C. Mail-bag catching and delivering apparatus. No. 1,297,060; Mar. 11; v. 260; p. 317.
- Baudendistel, Louis, Perryville, Mo. Huller. No. 1,320,968; Nov. 4; v. 268; p. 115.
- Bauder, Will H., et al. (See King, Joseph, assignor.)
- Bauer, Adolph G., Whitewater, Colo. Mining-car. No. 1,325,609; Dec. 23; v. 269; p. 572.
- Bauer, Adolph G., Ouray, Colo. Mining system. No. 1,325,610; Dec. 23; v. 269; p. 572.
- Bauer Brothers Company, The. (See Adelsperger, Dow L., assignor.)
- Bauer Brothers Company, The. (See Ault, Edward H., assignor.)
- Bauer Bros. Co., The. (See Paschall, Armand L., assignor.)
- Bauer, Charles G., Brooklyn, N. Y. Compound air-pump. No. 1,308,387; July 1; v. 264; p. 69.
- Bauer, Charles G., Brooklyn, N. Y. Signal. No. 1,325,432; Dec. 16; v. 269; p. 522.
- Bauer, Charles G., Glendale, assignor to Bauer Manufacturing Company, Inc., Queens County, N. Y. Curtafastener. No. 1,323,950; Dec. 2; v. 269; p. 137.
- Bauer, Dagmar. (See Popp, Jonas, assignor.)
- Bauer, Ernst, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation. Lamp-voltage-regulating means. No. 1,323,438; Dec. 2; v. 269; p. 41.
- Bauer, Eugen. (See Kazenmaier and Bauer.)
- Bauer, George, Milwaukee, Wis. Soap-cutter. No. 1,319,371; Oct. 21; v. 267; p. 413.
- Bauer, Gustav F. C., assignor to National Police Signal Company, Buffalo, N. Y. Recording apparatus. No. 1,315,201; Sept. 9; v. 266; p. 143.
- Bauer, Henry. (See Beckman and Bauer.)
- Bauer, Jacob L. and R. Milwaukee, Wis. Food-grinding device. No. 1,324,490; Dec. 9; v. 269; p. 285.
- Bauer, Jacob L. and R. Milwaukee, Wis. Food-comminuting device. No. 1,324,778; Dec. 16; v. 269; p. 401.
- Bauer Manufacturing Company. (See Bauer, Charles G., assignor.)
- Bauer, Otto V., assignor of one-ninth to H. J. Bailey, one-ninth to O. L. Bigelow, one-ninth to W. E. Campbell, one-ninth to C. A. Smith, one-ninth to J. G. Griffin, one-ninth to A. R. Greiner, one-ninth to P. F. Voigt, and one-ninth to H. C. Stevens, Alamosa, Colo. Rotary placer-gold separator. No. 1,303,233; May 13; v. 262; p. 172.
- Bauer, Robert. (See Bauer, Jacob L. and R.)
- Bauer Tool Company. (See Bauer, William J., assignor.)
- Bauer, William J., assignor to Bauer Tool Company, New York, N. Y. Spiral tool-driver. No. 1,290,489; Jan. 7; v. 258; p. 115.
- Bauer, William J., New York, N. Y. Foot-pump. No. 1,305,049; May 27; v. 262; p. 586.
- Bauerle, Adolph. (See Smith, Frank, assignor.)
- Baughman, Alton L., Wolfeke, Ind. Shingle. No. 1,322,220; Nov. 18; v. 268; p. 465.
- Baughman, Vincent C., Bushnell, Ill. Shovel-board. No. 1,317,905; Oct. 7; v. 267; p. 46.
- Baum, Benjamin J., and C. W. Odermatt, San Francisco, Calif. Nested-paper-cup separator. No. 1,314,118; Aug. 26; v. 265; p. 512.
- Baum, Edward F., Wormleysburg, Pa. Mechanically-operated toy. No. 1,294,027; Feb. 11; v. 259; p. 277.
- Baum, Ewald G., Natick, Mass. Ether cone. No. 1,317,122; Sept. 23; v. 266; p. 561.
- Baum, Isaac M., assignor, by mesne assignments, to The Paraffine Companies, Inc., San Francisco, Calif. Pipe. No. 1,325,611; Dec. 23; v. 269; p. 572.
- Baum, Isaac M., assignor, by mesne assignments, to The Paraffine Companies, Inc., San Francisco, Calif. Pipe. No. 1,325,612; Dec. 23; v. 269; p. 572.
- Baum, Isaac M., assignor, by mesne assignments, to The Paraffine Companies, Inc., San Francisco, Calif. Pipe-covering. No. 1,325,923; Dec. 23; v. 269; p. 630.
- Baum, Julia, Brooklyn, N. Y. Doll's dress. No. 1,300,915; Apr. 15; v. 261; p. 564.
- Baum, Willis M. (See Gilman and Baum.)
- Baum, Willis M., Saugus, Cal. Railway-crossing. No. 1,292,233; Jan. 21; v. 258; p. 589.
- Bauman, Frank J., assignor of one-third to D. M. White and one-third to H. M. Lau, Detroit, Mich. Airplane. No. 1,307,720; June 24; v. 263; p. 558.
- Bauman, Frank J., assignor of one-third to H. M. Lau and one-third to D. M. White, Detroit, Mich. Propelling mechanism for airplanes. No. 1,307,721; June 24; v. 263; p. 559.
- Bauman, Max, New York, N. Y. Gem-setting. No. 1,313,052; Aug. 12; v. 265; p. 260.
- Baumann, Christy J., Pittsburgh, Pa., assignor to Macbeth-Evans Glass Company. Furnace construction. No. 1,307,338; June 24; v. 263; p. 490.
- Baumann, Frederick. (See Baumann, Leopold, Sr., and F.)



## Alphabetical list of patentees—Continued.

- Baumann, Frederick, Philadelphia, Pa., assignor of seven thirty-seconds to himself, seven thirty-seconds to N. T. Whitaker, Washington, D. C., seven thirty-seconds to L. Baumann, Sr., Philadelphia, Pa., and eleven thirty-seconds to H. J. Browne, Washington, D. C. Finishing-tool. No. 1,300,325; Apr. 15; v. 261; p. 438.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric & Manufacturing Company, Limited. Steam-turbine. No. 1,302,282; Apr. 29; v. 261; p. 897.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Steam-turbine. No. 1,302,283; Apr. 29; v. 261; p. 897.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Condensing steam-turbine plant. No. 1,304,144; May 20; v. 262; p. 375.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Steam-turbine especially applicable to the propulsion of marine vessels. No. 1,311,547; July 29; v. 264; p. 783.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Condensing steam-turbine plant. No. 1,312,512; Aug. 12; v. 265; p. 154.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam-turbine. No. 1,320,671; Nov. 4; v. 268; p. 58.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Axial-flow steam-turbine. No. 1,322,221; Nov. 18; v. 268; p. 465.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Axial-flow steam-turbine. No. 1,322,222; Nov. 18; v. 268; p. 465.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam-turbine. No. 1,325,135; Dec. 16; v. 269; p. 467.
- Baumann, Leopold, Sr., *et al.* (See Baumann, Frederick, assignor.)
- Baumann, Leopold, Sr., and F., Philadelphia, Pa., assignors of seven thirty-seconds to said L. Baumann, Sr., seven thirty-seconds to said F. Baumann, and seven thirty-seconds to N. T. Whitaker, and eleven thirty-seconds to H. J. Browne, Washington, D. C. Tools for coring gun forgings and shafting. No. 1,310,319; July 15; v. 264; p. 491.
- Baumann, Leopold, Sr., and F., Philadelphia, Pa. Tool for coring gun-forgings. No. 1,322,399; Nov. 18; v. 268; p. 499.
- Baumel, Edward J., Pomona, Calif. Metal clothes-pin. No. 1,298,643; Apr. 1; v. 261; p. 5.
- Baumer, Louis C., *et al.* (See Smith, Jesse G., assignor.)
- Baumgartl, Leroy, and H. F. Gaston, Chicago, Ill.; said Gaston assignor to said Baumgartl. Demountable wheel. No. 1,298,279; Mar. 25; v. 260; p. 632.
- Baumgartner, Joseph P., Philadelphia, Pa. Suspended-garter adjustment. No. 1,317,676; Oct. 7; v. 267; p. 3.
- Baumgartner, Joseph P., Philadelphia, Pa. Garter-fastener. No. 1,317,677; Oct. 7; v. 267; p. 4.
- Baun, Louis, Dubois, Pa. Water-valve. No. 1,305,868; June 3; v. 263; p. 121.
- Bauroth, Walter J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Ball-bearing. No. 1,301,217; Apr. 22; v. 261; p. 664.
- Bausch & Lomb Optical Company. (See Grebe, Albert, assignor.)
- Bausch & Lomb Optical Company. (See Kandler, Edmund, assignor.)
- Bausch & Lomb Optical Company. (See Kellner, Gustav A. H., assignor.)
- Bausch & Lomb Optical Company. (See Poser, Max, assignor.)
- Baush Machine Tool Company. (See Calkins, Charles H., assignor.)
- Baush Machine Tool Company. (See Curtis, George V., assignor.)
- Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Decorating-depositor. No. 1,292,234; Jan. 21; v. 258; p. 589.
- Bausman, Alonzo L., Chicopee, Mass., assignor to National Equipment Company, Springfield, Mass. Rotary pump. No. 1,309,237; July 8; v. 264; p. 255.
- Bausman, Alonzo L., Chicopee, Mass. Roll for chocolate-refiners. No. 1,321,801; Nov. 18; v. 268; p. 387.
- Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Chocolate-coating machine or the like. No. 1,323,948; Dec. 2; v. 269; p. 137.
- Bausman, Alonzo L., Chicopee, assignor to National Equipment Company, Springfield, Mass. Confectionery-molding machine. No. 1,323,949; Dec. 2; v. 269; p. 137.
- Bauwens, Seraphine F., Chicago, Ill., assignor to Wirebounds Corporation. Box-blank machine. (Reissue.) No. 14,670; June 24; v. 263; p. 615.
- Bauwens, Seraphine F., Chicago, Ill., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery Me. Wire-bound-box machine. No. 1,313,854; Aug. 19; v. 265; p. 428.
- Bauwens, Seraphine F., Chicago, Ill., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery Me. Wire-bound-box machine. No. 1,313,855; Aug. 19; v. 265; p. 428.
- Bavor, John J., Cleveland, Ohio. Sprinkler. No. 1,317,540; Sept. 30; v. 266; p. 677.
- Bawden, William E., Chicago, Ill. Pillow. No. 1,312,886; Aug. 12; v. 265; p. 227.
- Bawtree, Alfred E. (See Hadfield and Bawtree.)
- Bawtree, Alfred E., Sutton, assignor to Hadfields (Merton) Limited, Mitcham, England. Machine for manipulating containers. No. 1,324,295; Dec. 9; v. 269; p. 246.
- Bax, Leslie F., St. Louis, Mo. Combined rack and serving-tray. No. 1,305,512; June 3; v. 263; p. 53.
- Baxter, Arthur J., Seneca, Kans. Safety-razor. No. 1,307,652; June 24; v. 263; p. 546.
- Baxter & Caunter. (See Rutherford, Joseph, assignor.)
- Baxter, Kenneth S., assignor to The Sheet Steel Products Company, Bryan, Ohio. Motor-truck seat. No. 1,311,146; July 22; v. 264; p. 674.
- Baxter, Leonidas, assignor to The Thomas Manufacturing Company, Dayton, Ohio. Spring-motor. No. 1,315,456; Sept. 9; v. 266; p. 190.
- Baxter, Oscar L., Columbus, Ohio. Window construction. No. 1,301,896; Apr. 29; v. 261; p. 825.
- Baxter, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,291,726; Jan. 21; v. 258; p. 461.
- Baxter, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Mechanical movement. No. 1,292,565; Jan. 28; v. 258; p. 689.
- Baxter, William C., deceased; R. D. Waddill, administrator, Bartlesville, Okla. Differential-pressure gage. No. 1,292,418; Jan. 28; v. 258; p. 652.
- Baxter, William L., Beverly, assignor to Economic Steel Rack Company, Jamaica Plain, Mass. Structural-metal construction for tanning-frame supports, or other uses. No. 1,293,670; Feb. 11; v. 259; p. 192.
- Baxter, William M., Chicago, Ill., assignor to W. H. Klauer, Dubuque, Iowa. Charcoal-burner. (Reissue.) No. 14,648; May 20; v. 262; p. 450.
- Bay, Hiram H., and J. H. Brantingham, Chicago, Ill. Toy blow-gun. No. 1,290,050; Jan. 7; v. 258; p. 9.
- Bay State Optical Company. (See McKinstry, George W., assignor.)
- Bayer, Henry, Pittsburgh, Pa. Bottle-emptying apparatus. No. 1,292,994; Feb. 4; v. 259; p. 5.
- Bayer, Leo J., assignor to Bayer Steam Soot Blower Company, St. Louis, Mo. Soot-blower for boilers. No. 1,317,345; Sept. 30; v. 266; p. 639.
- Bayer, Leo J., St. Louis, Mo., assignor to Bayer Steam Soot Blower Company. Rotary valve. No. 1,317,346; Sept. 30; v. 266; p. 639.
- Bayer Steam Soot Blower Company. (See Bayer, Leo J., assignor.)
- Bayeux, Raoul R., and J. Richard, Paris, France. Ozonizing apparatus. No. 1,326,631; Dec. 30; v. 269; p. 800.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Feeding means for drills. No. 1,299,814; Apr. 8; v. 261; p. 301.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,299,815; Apr. 8; v. 261; p. 301.
- Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Cylinder and guide construction for hammer-drills. No. 1,304,442; May 20; v. 262; p. 433.
- Bayley, Ivan A., North Sidney, Nova Scotia, Canada, assignor to D. G. Bellamore, New York, N. Y. Power-raft and making the same. No. 1,292,680; Jan. 28; v. 258; p. 717.
- Baylis, Everest A., El Paso, Tex. Centrifugal separator. No. 1,308,271; July 1; v. 264; p. 48.
- Bayliss, Bronson, St. Louis, Mo. Wheel. No. 1,291,727; Jan. 21; v. 258; p. 462.
- Bayliss, Wilfrid. (See Player and Bayliss.)
- Baylor, Harry D., Sellersburg, Ind., assignor to Louisville Cement Company, Louisville, Ky. Making cement. No. 1,323,952; Dec. 2; v. 269; p. 137.
- Baylor, Harry D., Sellersburg, Ind., assignor to Louisville Cement Company, Louisville, Ky. Making cement. No. 1,323,953; Dec. 2; v. 269; p. 137.
- Baynard, William H., Braintree, Mass., assignor to Beckwith Box Toe Company, Dover, N. H. Sewing-machine attachment. No. 1,298,280; Mar. 25; v. 260; p. 632.
- Rayne, George G. (See Knutson, Alfred W., assignor.)
- Bazaine, Léon, assignor to Société Anonyme Des Etablissements Nieuport Issy-les-Moulineaux, France. Boat-hull. No. 1,296,155; Mar. 4; v. 260; p. 79.
- Be Gole, James, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,292,683; Jan. 28; v. 258; p. 718.
- Beach, Bernard M., Lima, Ohio. Internal-combustion engine. No. 1,300,916; Apr. 15; v. 261; p. 564.



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- Beach, Carl F., Battle Creek, Mich. Valve. No. 1,296,257; Mar. 4; v. 260; p. 101.
- Beach, Charles P., Littleton, N. H. Gear-remover. No. 1,313,511; Aug. 19; v. 265; p. 363.
- Beach, Chester H., Racine, Wis. Agitator. No. 1,291,728; Jan. 21; v. 258; p. 462.
- Beach, Chester H., assignor to Wisconsin Electric Company, Racine, Wis. Means for mounting sewing-machine motors. No. 1,292,995; Feb. 4; v. 259; p. 6.
- Beach, Chester H., Racine, Wis. Rotary cloth-cutter. No. 1,314,382; Aug. 26; v. 265; p. 563.
- Beach, Clarence E., Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company. Auxiliary alarm system. No. 1,290,700; Jan. 7; v. 258; p. 166.
- Beach, David S., Bridgeport, Conn. Resilient wheel. No. 1,298,438; Mar. 25; v. 260; p. 666.
- Beach, Edward S. (See Bender, Andrew, assignor.)
- Beach, Fitch H., Charlotte, Mich. Rotary screen. No. 1,305,685; June 3; v. 263; p. 86.
- Beach, Fitch H., Charlotte, Mich. Gravel-screen. No. 1,310,645; July 22; v. 264; p. 582.
- Beach, George W., Saybrook, Conn., and C. Von Culin, New York, N. Y. Dirigible headlight. No. 1,290,051; Jan. 7; v. 258; p. 9.
- Beach, Howard L., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,300,238; Apr. 15; v. 261; p. 420.
- Beach, John, assignor of one-half to P. F. Golden, Springfield, Ohio. Die-holder. No. 1,321,970; Nov. 18; v. 268; p. 418.
- Beach, John A., Muskegon, Mich. Lay-out tool. No. 1,298,866; Apr. 1; v. 261; p. 57.
- Beach, Lonnie R., Colquitt, Ga. Peanut cultivating and harvesting plow. No. 1,290,490; Jan. 7; v. 258; p. 115.
- Beach, Merrill A., Penn Yan, N. Y. Liquid-dispensing apparatus. No. 1,309,555; July 8; v. 264; p. 304.
- Beach, Ralph L., East Orange, N. J., assignor to General Electric Company. Incandescent-lamp wrapper. No. 1,312,513; Aug. 12; v. 265; p. 154.
- Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
- Beadenkopf, Clarence M., Wilmington, Del. Traffic-signal. No. 1,321,702; Nov. 11; v. 268; p. 317.
- Beadie, Bailey O., Beaconsfield, Iowa. Non-skid device. No. 1,301,535; Apr. 22; v. 261; p. 724.
- Beadie, Blanche E., Springfield, Mass. Hair-curler. No. 1,310,557; July 22; v. 264; p. 565.
- Beadie, George W., Stamford, Conn. Re-slip roll and re-slipping machine. No. 1,306,094; June 10; v. 263; p. 193.
- Beadie, William H., New Plymouth, New Zealand. Bedstead-fastener. No. 1,320,969; Nov. 4; v. 268; p. 115.
- Beaghen, Thomas, Jr., Mount Vernon, N. Y. Tank-car. No. 1,319,200; Oct. 21; v. 267; p. 381.
- Beal, Michael L., Pasadena, Calif. Resilient sandpaper-drum. No. 1,311,743; July 29; v. 264; p. 319.
- Beal, Ralph R., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Wireless telegraphy. No. 1,320,525; Nov. 4; v. 268; p. 31.
- Beall, Charles R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electromagnetic device. No. 1,302,284; Apr. 29; v. 261; p. 897.
- Beall, Frank W., New York, N. Y. Smoking-pipe. No. 1,303,629; May 13; v. 262; p. 243.
- Beall, Frank F., assignor to Packard Motor Car Company, Detroit, Mich. Gear manufacture. No. 1,305,050; May 27; v. 262; p. 586.
- Beall, Hiram A., Kansas City, Mo. Theft-alarm for automobiles. No. 1,307,575; June 24; v. 263; p. 532.
- Bealle, John S., Waldorf, Md. Saddle and checkrein hook. No. 1,292,996; Feb. 4; v. 259; p. 6.
- Bealle, John S., Waldorf, Md. Trap. No. 1,321,588; Nov. 11; v. 268; p. 296.
- Beals & Selkirk Trunk Company. (See Davis, Egbert H., assignor.)
- Beals, Wallace M., Avon, Mass. Turnbuckle. No. 1,313,450; Aug. 19; v. 265; p. 352.
- Beam, Albert, Rose Hill, Ill. Clamp-derail. No. 1,294,602; Feb. 18; v. 259; p. 446.
- Beam, Aron M., assignor to The American Continuous Retort Company, Denver, Colo. Muffled ore-converting apparatus. No. 1,299,661; Apr. 8; v. 261; p. 266.
- Beam, Frank E., Toledo, Ohio. Machine for packing articles of paper-board and the like. No. 1,313,573; Aug. 19; v. 265; p. 375.
- Beam, Oliver N., Los Angeles, Cal. Compound antirecoil-spring. No. 1,295,954; Mar. 4; v. 260; p. 31.
- Beam, Robert, Battle Creek, Mich. Curtain-shade fixture. No. 1,319,025; Oct. 14; v. 267; p. 322.
- Beamer, Samuel C., Marshalltown, Iowa. Egg-turning tray. No. 1,306,164; June 10; v. 263; p. 206.
- Bean, Irving M., deceased, Milwaukee, Wis.; M. W. Bean, executrix, and First Trust Company, executor. Bath-cabinet. No. 1,301,029; Apr. 15; v. 261; p. 588.
- Bean, James, Duett, La. Culinary utensil. No. 1,293,303; Feb. 4; v. 259; p. 77.
- Bean, James E. (See Houghton, Stephen C., assignor.)
- Bean, Louis A., Denver, Colo. Signaling device for motor-vehicles. No. 1,301,090; Apr. 22; v. 261; p. 637.
- Bean, Mabel W., executrix, *et al.* (See Bean, Irving M.)
- Bean, Samuel I., and R. M. Bizzell, Asheville, N. C. Cereal-roaster. No. 1,302,123; Apr. 29; v. 261; p. 868.
- Bean, Samuel I., and R. M. Bizzell, Asheville, N. C. Cereal-roaster. No. 1,302,124; Apr. 29; v. 261; p. 868.
- Beane, Lillian H. (See Ross, William J., assignor.)
- Beard, Clement E. (See Helman and Beard.)
- Beard, Percy M., Hardinsburg, Ky. Curling-iron. No. 1,293,304; Feb. 4; v. 259; p. 77.
- Beard, Richard M., New York, N. Y. Electric-light fixture. (Reissue.) No. 14,781; Dec. 30; v. 269; p. 851.
- Beard, Willie L., Comanche, Tex. Peanut-harvester. No. 1,313,053; Aug. 12; v. 265; p. 260.
- Beardmore, Jerome C., Chicago, Ill. Automobile-alarm. No. 1,319,135; Oct. 21; v. 267; p. 367.
- Beardmore, William. (See Pullinger, Thomas C. W., assignor.)
- Beardslee Chandler Manufacturing Company. (See Beardslee, George M., assignor.)
- Beardslee, George M., Chicago, Ill., assignor to Beardslee Chandler Manufacturing Company. Lighting-fixture. No. 1,297,781; Mar. 18; v. 260; p. 501.
- Beardsley, Andrew H. (See Putt, Harlie O., assignor.)
- Beardsley, Edson L., Columbus, Ohio. Lifter. No. 1,310,594; July 22; v. 264; p. 572.
- Beardsley, Edward H. (See Lewis, Lester L., assignor.)
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Molding apparatus. No. 1,309,833; July 15; v. 264; p. 403.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Making molds for steel castings. No. 1,309,834; July 15; v. 264; p. 403.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Making molds for founding. No. 1,309,835; July 15; v. 264; p. 403.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Portable machine for making molds. No. 1,309,836; July 15; v. 264; p. 403.
- Beardsley, Robert W. (See Nye and Beardsley.)
- Beare, John H., San Antonio, Tex. Etching apparatus. No. 1,291,369; Jan. 14; v. 258; p. 347.
- Beasant, Walter C., Manitowoc, Wis. Combined desk and seat. No. 1,306,738; June 17; v. 263; p. 346.
- Beasley, Arthur, East St. Louis, Ill. Equalizing journal-box. No. 1,306,460; June 10; v. 263; p. 263.
- Beasley, Arthur, East St. Louis, Ill. Equalizing side frame and journal-box. No. 1,306,461; June 10; v. 263; p. 263.
- Beasley, Arthur and L., St. Louis, Mo. Shoe-shining chair. No. 1,301,218; Apr. 22; v. 261; p. 664.
- Beasley, Harry K., Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Alternating-current electromagnetic instrument. No. 1,324,536; Dec. 9; v. 269; p. 294.
- Beasley, John H. (See Dunn and Beasley.)
- Beasley, Lealon. (See Beasley, Arthur and L.)
- Beaton, Allan J., New Britain, Conn. Roller. No. 1,326,128; Dec. 23; v. 269; p. 668.
- Beaton, Malcolm S., Jeppetown, and S. Youngson, City Deep, Transvaal, South Africa. Rock-drill-hose connection. No. 1,304,248; May 20; v. 262; p. 395.
- Beaton, Roderick, Pollockshields, Scotland. Boat launching and lowering gear. No. 1,305,643; June 3; v. 263; p. 79.
- Beatty, Earle J. R., assignor to Universal Optical Corporation, Providence, R. I. Attachment for spectacles. No. 1,293,671; Feb. 11; v. 259; p. 193.
- Beatty, Earle J. R., assignor to Universal Optical Corporation, Providence, R. I. Eyeglass-mounting. No. 1,307,477; June 24; v. 263; p. 515.
- Beattie, James M. (See Spear and Beattie.)
- Beattie, John E., assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Compass-corrector. No. 1,308,692; July 1; v. 264; p. 125.
- Beattie, John E., assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Dampening device for gyroscopic compasses. No. 1,308,693; July 1; v. 264; p. 126.
- Beatty, John P., assignor of one-third to J. W. Armstrong and one-third to T. R. Armstrong, Charlotte, N. C. Dump-body for autotrucks. No. 1,319,986; Oct. 28; v. 267; p. 552.
- Beatty, William G., Fergus, Ontario, Canada. Transmission-gear. No. 1,304,648; May 27; v. 262; p. 511.
- Beatty, William R., Chicago, Ill. Automobile-sunshade. No. 1,311,870; Aug. 5; v. 265; p. 4.
- Beaty, Ernest L., assignor of one-half to Carolina Motor Company, Statesville, N. C. Power-shovel. No. 1,320,970; Nov. 4; v. 268; p. 115.
- Beaubien, Robert E., Chicago, Ill. Force-feed engine-lubricator. No. 1,325,273; Dec. 16; v. 269; p. 493.
- Beauchamp, Virgil L., Evanston, Ill. Powder-box. No. 1,303,630; May 13; v. 262; p. 243.
- Beauchemin, Ralph J., Laconia, N. H. Motor-vehicle. No. 1,305,246; June 3; v. 263; p. 3.
- Beaudouin, Frank and T. P., Philadelphia, Pa. Needle-holder for talking-machines. No. 1,322,282; Nov. 18; v. 268; p. 477.
- Beaudouin, Thomas P. (See Beaudouin, Frank and T. P.)



- Beaumont, Ernest C., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Resoling shoes. No. 1,293,672; Feb. 11; v. 259; p. 193.
- Beaumont, Frederick J., London, England. Connection, for electric batteries. No. 1,309,561; July 8; v. 264; p. 315.
- Beaumont, William W. (See Richards and Beaumont.)
- Beaupre, Arthur P., Montreal, Quebec, Canada. Box. No. 1,317,752; Oct. 7; v. 267; p. 17.
- Beaupre, Delphis, Kankakee, Ill. Ironing-board, work-bench, or the like. No. 1,314,940; Sept. 2; v. 266; p. 85.
- Beauregard, Albert F., West De Pere, Wis. Gas-control for motor-vehicles. No. 1,311,800; July 29; v. 264; p. 829.
- Beausejour, Reme A., New York, assignor to Standard Varnish Works, Elm Park, Port Richmond, N. Y. Construction of metal doors. No. 1,297,534; Mar. 18; v. 260; p. 447.
- Beaven, Frederick, Chicago, Ill., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Advertising-sign. No. 1,291,370; Jan. 14; v. 258; p. 347.
- Beaver, Charles J., and E. A. Claremont, county of Chester, England. Manufacture of electric cables. No. 1,298,644; Apr. 1; v. 261; p. 5.
- Beaver, Charles J., Hale, and E. A. Claremont, High Legh, England. Manufacture of electric cables. No. 1,305,247; June 3; v. 263; p. 4.
- Beaver, Charles J., Hale, and E. A. Claremont, High Legh, England. Sheath-coupling for electric cables. No. 1,308,389; July 1; v. 264; p. 70.
- Beaver, Charles J., Hale, A. F. W. Richards, Brooklands, and E. A. Claremont, High Legh, England. Detective and protective device for electric cables. No. 1,308,388; July 1; v. 264; p. 69.
- Beaver, Charles J., Hale, A. F. W. Richards, Brooklands, and E. A. Claremont, High Legh, England. Sheath-coupling for electric cables. No. 1,308,390; July 1; v. 264; p. 70.
- Beaver Company, The. (See Sidwell, Benjamin W., assignor.)
- Beaver Machine and Tool Co. (See Pape, Herman G., assignor.)
- Beaver State Motor Co. (See Combs, Perley A., assignor.)
- Bebb, Richard E., assignor to The Canton Stamping & Enameling Company, Canton, Ohio. Culinary vessel. No. 1,317,066; Sept. 23; v. 266; p. 550.
- Beccari, Giuseppe, Florence, Italy. Pyre for the manufacture of charcoal. No. 1,319,688; Oct. 28; v. 267; p. 496.
- Béchereau, Louis, Paris, France. Multiple-engine driving mechanism. No. 1,309,451; July 8; v. 264; p. 295.
- Becherer, Charles E., Seattle, Wash. Swimming device. No. 1,326,471; Dec. 30; v. 269; p. 769.
- Becherer, George, St. Louis, Mo. Heel-protector. No. 1,297,434; Mar. 18; v. 260; p. 426.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Distributing-fountain mechanism. No. 1,293,305; Feb. 4; v. 259; p. 77.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Inking mechanism for printing-presses. No. 1,301,091; Apr. 22; v. 261; p. 638.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Blanket-cylinder for printing-presses. No. 1,306,095; June 10; v. 263; p. 193.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Stereotype-plate-casting-box-cooling apparatus. No. 1,306,096; June 10; v. 263; p. 193.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Means for clamping stereotype-plates in plate-finishing machines. No. 1,312,073; Aug. 5; v. 265; p. 41.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Cylinder and plate-clamping device for rotary printing-presses. No. 1,317,647; Sept. 30; v. 266; p. 698.
- Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Bending matrices. No. 1,318,044; Oct. 7; v. 267; p. 73.
- Bechoff, Ferdinand N., and M. M. Samuels, New York, N. Y. Self-locking retainer for milk-bottles. No. 1,302,125; Apr. 29; v. 261; p. 868.
- Becht, Edward C., Newport, Ky. Beating and aerating process and apparatus. No. 1,309,175; July 8; v. 264; p. 243.
- Becht, Edward C., Newport, Ky., and H. W. Becht, Rising Sun, Ind.; said H. W. Becht assignor to said Edward C. Becht. Shaping apparatus. No. 1,318,310; Oct. 7; v. 267; p. 125.
- Becht, Herman W. (See Becht, Edward C., assignor.)
- Bechtel, Conrad J., Sandusky, Ohio. Graphite-feeding device for engines. No. 1,319,037; Oct. 21; v. 267; p. 349.
- Bechtel, John A., Tarentum, Pa. Glass-stowing tool. No. 1,306,993; June 17; v. 263; p. 393.
- Bechtel, John A., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Transfer-rack apparatus. No. 1,324,785; Dec. 16; v. 269; p. 403.
- Bechtel, Milton W., assignor to The Borden Company, Warren, Ohio. Die-stock. No. 1,304,249; May 20; v. 262; p. 395.
- Bechtold, Lemoine J., Denver, Colo. Moving-picture indicator. No. 1,304,010; May 20; v. 262; p. 351.
- Beck, Alwin, assignor of one-half to H. S. Simms, Rochester, N. Y. Camera. No. 1,311,676; July 29; v. 264; p. 806.
- Beck, Charles W., assignor to The Beck-Frost Corporation, Detroit, Mich. Holder for oil-cans or the like. No. 1,297,435; Mar. 18; v. 260; p. 426.
- Beck, Christian F., Steelton, Pa. Burner. No. 1,321,358; Nov. 11; v. 268; p. 253.
- Beck Duplicator Company, The. (See Klein, Adolf, assignor.)
- Beck Duplicator Company, The. (See Saliger, Alois B., assignor.)
- Beck, Edward E., assignor to Crown Die and Tool Company, Chicago, Ill. Reversible ratchet-stock for pipe-threading. No. 1,324,442; Dec. 9; v. 269; p. 275.
- Beck-Frost Corporation, The. (See Beck, Charles W., assignor.)
- Beck, George, Denver, Colo. Automatic train-stop. No. 1,316,759; Sept. 23; v. 266; p. 494.
- Beck, George C., Spokane, Wash. Automobile-brake. No. 1,315,699; Sept. 9; v. 266; p. 232.
- Beck, George C., Spokane, Wash. Boring-tool. No. 1,326,169; Dec. 30; v. 269; p. 712.
- Beck, Harold M. (See Phinney and Beck.)
- Beck, Harry M. (See Parrish, Hale W., assignor.)
- Beck, Heinrich, Schenectady, N. Y., assignor to General Electric Company. Search-light arc-lamp. No. 1,313,666; Aug. 19; v. 265; p. 392.
- Beck, John C., Milton, Ind. Grave-lining. No. 1,310,820; July 22; v. 264; p. 615.
- Beck, John L., Springfield, Mass. Oil-burner. No. 1,312,673; Aug. 12; v. 265; p. 185.
- Beck, John W., Washington, Pa. Supplemental sole for shoes. No. 1,292,681; Jan. 28; v. 258; p. 717.
- Beck, Nels L., Exira, Iowa. Harrow. No. 1,300,554; Apr. 15; v. 261; p. 487.
- Beck, Oscar G., Herrick, Ill. Choke-removing appliance. No. 1,293,306; Feb. 4; v. 259; p. 78.
- Beck, Svend J. (See Branstrator, Clem G., assignor.)
- Beck, Sven L., assignor of two-fifths to R. N. Eggleston, Cleveland, Ohio. Automobile signal device. No. 1,325,777; Dec. 23; v. 269; p. 603.
- Becka, John V., Cleveland, Ohio. Box for electric meters. No. 1,292,682; Jan. 28; v. 258; p. 717.
- Becka, John V., Cleveland, Ohio. Box for electric meters. (Reissue.) No. 14,677; July 1; v. 264; p. 136.
- Becker, Christopher A., West Nutley, N. J., assignor to The Torsion Balance Company, New York, N. Y. Weighing scale or balance. No. 1,295,258; Feb. 25; v. 259; p. 620.
- Becker, Donald B., Watervliet, assignor to Geo. P. Ide & Company, Troy, N. Y. Soft turned-down collar. No. 1,322,867; Nov. 25; v. 268; p. 638.
- Becker, Edmund, administrator. (See Becker, Joseph.)
- Becker, Gustav, assignor to F. M. Fowler, Chicago, Ill. Folding receptacle. No. 1,295,674; Feb. 25; v. 259; p. 717.
- Becker, Harry G., Watervliet, N. Y. Drifting-valve apparatus for locomotives. No. 1,311,034; July 22; v. 264; p. 654.
- Becker, Henry. (See Foster, John N., assignor.)
- Becker, John, Pittsburgh, Pa., assignor to E. Schwarz, Chicago, Ill. Scraper attachment for bottle-crowning machines. No. 1,292,997; Feb. 4; v. 259; p. 6.
- Becker, John H., Philadelphia, Pa., and W. S. Bellows, Worcester, Mass. Spark-plug. No. 1,315,202; Sept. 9; v. 266; p. 143.
- Becker, John H., Philadelphia, Pa., and W. S. Bellows, Worcester, Mass. Electrical connector. No. 1,326,632; Dec. 30; v. 269; p. 80.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Apparatus and process for the recovery of ammonium sulfate. No. 1,291,729; Jan. 21; v. 258; p. 462.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonium-sulfate-recovery process. No. 1,291,730; Jan. 21; v. 258; p. 463.
- Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Finder. No. 1,296,156; Mar. 4; v. 260; p. 79.
- Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,301,897; Apr. 29; v. 261; p. 825.
- Becker, Joseph, Washington, D. C. Finder. No. 1,305,984; June 3; v. 263; p. 143.
- Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing-camera. No. 1,307,339; June 24; v. 263; p. 490.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery process. No. 1,307,533; June 24; v. 263; p. 525.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia, tar, and benzol recovery process. No. 1,307,534; June 24; v. 263; p. 525.



## Alphabetical list of patentees—Continued.

- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort-oven. No. 1,312,301; Aug. 5; v. 265; p. 83.
- Becker, Joseph, deceased. Washington, D. C.; E. Becker, administrator. Cutting screw-threads. No. 1,318,045; Oct. 7; v. 267; p. 73.
- Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing-camera. No. 1,319,749; Oct. 28; v. 267; p. 508.
- Becker, Joseph, Washington, D. C., assignor to Eastman Kodak Company, Rochester, N. Y. Optical focuser. No. 1,319,750; Oct. 28; v. 267; p. 508.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Manufacture of coke. No. 1,320,371; Nov. 4; v. 268; p. 3.
- Becker-Jurgen, Leonard, and T. Beyer, Los Angeles, Calif. Pouring-spout for cans, &c. No. 1,325,828; Dec. 23; v. 269; p. 613.
- Becker, Mayme. (See Branson, Russel W., assignor.)
- Becker, Oliver E., Oak Park, Ill. Means for making electrical brushes. No. 1,319,751; Oct. 28; v. 267; p. 508.
- Becker, Richard M., Brooklyn, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,296,354; Mar. 4; v. 260; p. 122.
- Becker, Richard M., Brooklyn, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,296,355; Mar. 4; v. 260; p. 122.
- Becker, Robert A., assignor to C. Tremain, Poughkeepsie, N. Y. Electrical grounding device. No. 1,290,881; Jan. 14; v. 258; p. 233.
- Becker, Robert A., assignor of one-half to C. Tremain, Poughkeepsie, N. Y. Gripping member for connectors, line-taps, and the like. No. 1,323,147; Nov. 25; v. 268; p. 691.
- Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Guide for straw-braid-sewing machines. No. 1,290,052; Jan. 7; v. 258; p. 9.
- Becker, Valentine G., St. Paul, Minn. Apparatus for boiling eggs. No. 1,301,997; Apr. 29; v. 261; p. 844.
- Becket, Frederick M., Niagara Falls, assignor to Union Carbide Company, New York, N. Y. Manufacture of calcium carbide. No. 1,292,386; Jan. 21; v. 258; p. 624.
- Becket, Frederick M., Niagara Falls, assignor to Union Carbide Company, New York, N. Y. Manufacture of calcium carbide. No. 1,292,387; Jan. 21; v. 258; p. 624.
- Becket, Frederick M., Niagara Falls, N. Y., assignor to Union Carbide Company, New York, N. Y. Manufacture of calcium carbide. No. 1,310,465; July 22; v. 264; p. 549.
- Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Explosive. No. 1,310,466; July 22; v. 264; p. 549.
- Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Alloy. No. 1,322,158; Nov. 18; v. 268; p. 453.
- Beckett, Ernest G. (See Rintoul and Beckett.)
- Beckett, John R., Somerville, assignor to Boston Scale & Machine Co., South Boston, Mass. Work-support. No. 1,292,235; Jan. 21; v. 258; p. 589.
- Beckley-Ralston Co., The. (See Bockius, Walter A., assignor.)
- Beckman, Herbert S., Los Angeles, Calif. Motion-picture-actuating means. No. 1,301,357; Apr. 22; v. 261; p. 692.
- Beckman, Herbert S., Los Angeles, Calif. Camera-actuating mechanism. No. 1,301,358; Apr. 22; v. 261; p. 692.
- Beckman, Richard, and H. Wollesen, New York, N. Y. Explosive-motor. No. 1,301,359; Apr. 22; v. 261; p. 692.
- Beckmann, Joseph G., St. Louis, Mo. Water-heater. No. 1,294,223; Feb. 11; v. 259; p. 323.
- Beckner, John F., Plainwell, Mich. Toy. No. 1,295,675; Feb. 25; v. 259; p. 717.
- Beckner, Noah J., assignor to Safety Patent Co., Yakima, Wash. Safety switch-lock. No. 1,313,978; Aug. 26; v. 265; p. 486.
- Beckner, Noah J., assignor to Safety Patent Co., Yakima, Wash. Safety switch-lock. No. 1,316,013; Sept. 16; v. 266; p. 305.
- Beckwith, Arthur C., Chicago, Ill. Oil vaporizing, mixing, and delivering device. No. 1,292,566; Jan. 28; v. 258; p. 689.
- Beckwith, Arthur C., Chicago, Ill. Flange-oiler nozzle. No. 1,292,567; Jan. 28; v. 258; p. 689.
- Beckwith, Arthur C., Chicago, Ill. Hydrostatic lubricator and valve mechanism therefor. No. 1,302,285; Apr. 29; v. 261; p. 898.
- Beckwith Box Toe Company. (See Baynard, William H., assignor.)
- Beckwith, Carl F. (See Morrison, Vaughn E., assignor.)
- Beckwith, Franklin B., Plattsmouth, Nebr. Washing-machine. No. 1,298,645; Apr. 1; v. 261; p. 5.
- Beckwith, Grove R. (See Burke and Beckwith.)
- Beckwith, Louis I., Boston, Mass. Separable joint. No. 1,321,802; Nov. 18; v. 268; p. 387.
- Beckwith, Walter C., Fostoria, Ohio. Hydraulic strain-equalizer. No. 1,311,108; July 22; v. 264; p. 667.
- Beckwith, Walter C., Fostoria, Ohio. Boring-tool. No. 1,316,217; Sept. 16; v. 266; p. 343.
- Beckwith, John, Durango, Colo. Gravity-concentrator. No. 1,294,603; Feb. 18; v. 259; p. 446.
- Becton Dickinson & Co. (See Schwidetzky, Oscar O. R., assignor.)
- Bedard, Alexander A., Detroit, Mich. Label-pasting machine. No. 1,295,676; Feb. 25; v. 259; p. 717.
- Bedaux, Charles E., Grand Rapids, Mich. Call-recording apparatus for telephones. No. 1,291,731; Jan. 21; v. 258; p. 463.
- Beddow, Josiah. (See Clutsum, Frederick, assignor.)
- Bedell, Charles H., New London, Conn., assignor to Electric Boat Company, New York, N. Y. Periscope. No. 1,294,365; Feb. 11; v. 259; p. 354.
- Bedell, Charles H., New London, Conn., assignor to Electric Boat Company. Storage-battery installation. No. 1,313,513; Aug. 19; v. 265; p. 364.
- Bedell, Charles H., and G. E. Edgar, New London, Conn., assignors to Electric Boat Company, New York, N. Y. Cooling, ventilating, and rendering innocuous storage batteries. No. 1,313,512; Aug. 19; v. 265; p. 363.
- Bedford, Clayton W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Art of reclaiming rubber. No. 1,321,501; Nov. 11; v. 268; p. 280.
- Bedford, Clayton W., assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Preparing caoutchouc substances and vulcanization product therefrom. No. 1,323,951; Dec. 2; v. 269; p. 137.
- Bedford, Mary E., White Bird, Idaho. Undergarment. No. 1,293,307; Feb. 4; v. 259; p. 78.
- Bedgood, Julian R., Los Angeles, Calif. Tractor attachment for automobiles. No. 1,324,951; Dec. 16; v. 269; p. 432.
- Bedingfield, John C., Carl, assignor of one-half to E. L. Williamson, Jefferson, Ga. Package-tie. No. 1,312,015; Aug. 5; v. 265; p. 30.
- Bednarz, Jacob. (See Talpa and Bednarz.)
- Bee, Frank, Velpen, Ind. Churn. No. 1,301,536; Apr. 22; v. 261; p. 724.
- Beebe, Nathan S., Kansas City, Mo. Combined pan lifter and strainer. No. 1,325,613; Dec. 23; v. 269; p. 572.
- Beebe, James H., Rochester, N. Y. Apparatus for drying moisture-bearing substances. No. 1,295,259; Feb. 25; v. 259; p. 620.
- Beech-Nut Packing Company. (See Forté, Harry P., assignor.)
- Beech-Nut Packing Company *et al.* (See Lorenz and Law, assignors.)
- Beech-Nut Packing Company *et al.* (See Peiler, Karl E., assignor.)
- Beecher, Chester E., and J. Symonds, Conshohocken, Pa. Beating-engine. No. 1,324,223; Dec. 9; v. 269; p. 233.
- Beecher, Edward, St. Louis, Mo., assignor to Indian Packing Company, Green Bay, Wis. Demonstrating case and carrier for commercial salesmen. No. 1,311,586; July 29; v. 264; p. 790.
- Beede, Herbert G., Pawtucket, R. I. Pulley-mounting. No. 1,306,517; June 10; v. 263; p. 273.
- Beedle, Guy, Progresso, N. Mex. Gate. No. 1,307,996; June 24; v. 263; p. 610.
- Beckhuis, Hermanus A., assignor to California Peach Growers (Inc.), Fresno, Calif. Device for cleansing and removing the skins from dried fruits, such as peaches and apricots, &c. No. 1,312,381; Aug. 5; v. 265; p. 98.
- Beeler, George L., Morristown, N. J. Automatic game apparatus. No. 1,319,038; Oct. 21; v. 267; p. 350.
- Beeman, Edwin R., Minneapolis, Minn. Wheel. No. 1,307,035; June 17; v. 263; p. 402.
- Beeman Garden Tractor Co. (See Phelps, Spencer H., assignor.)
- Beeman, Joseph J., assignor to Standard Fuel Engineering Company, Detroit, Mich. Annealing-furnace. No. 1,305,991; June 10; v. 263; p. 174.
- Beeman, Lyle, Milwaukee, Wis. Automatic sign. No. 1,312,159; Aug. 12; v. 265; p. 281.
- Beeman, Lyle, Milwaukee, Wis. Automatically-changing sign. No. 1,325,071; Dec. 16; v. 269; p. 455.
- Beeman, Ralph E., Minneapolis, Minn. Adjustable spark-plug tester. No. 1,312,016; Aug. 5; v. 265; p. 31.
- Beeman Tractor Company. (See Gerdeman, Frank H., assignor.)
- Beer, Guido, *et al.*, executors. (See Salvati, Michele N.)
- Beerink, Reuben, North Yakima, Wash. Carbureting apparatus. No. 1,312,228; Aug. 5; v. 265; p. 70.
- Beers, Alexander W., New York, N. Y. Folding package-box. No. 1,295,260; Feb. 25; v. 259; p. 620.
- Beers, Alexander W., New York, N. Y. Folding package-box. No. 1,295,824; Feb. 25; v. 259; p. 751.
- Beers, Herbert F., Chicago, Ill. Collapsible bag or sack. No. 1,303,757; May 13; v. 262; p. 267.
- Beers, William H., Portland, Oreg. Pipe-bending machine. No. 1,319,987; Oct. 28; v. 267; p. 553.
- Beeselman, John F., East Chicago, Ind. Automobile-tire. No. 1,301,998; Apr. 29; v. 261; p. 844.
- Begg, Alexander L. W., New York, N. Y. Mechanical light. No. 1,306,326; June 10; v. 263; p. 238.
- Beggs, Alexander H., Buffalo, N. Y. Portable planing-machine. No. 1,319,557; Oct. 21; v. 267; p. 448.
- Beggs, Harry W. (See Clark and Hovey, assignors.)
- Beggs, Harry W. (See Read, Benjamin K., assignor.)



*Alphabetical list of patentees—Continued.*

- Beggs, Joseph W., Winnipeg, Manitoba, Canada. Internal-combustion engine. No. 1,299,662; Apr. 8; v. 261; p. 267.
- Behlen, Charles A., Cincinnati, Ohio. Coupling and draw-bar for autotrailers. No. 1,313,451; Aug. 19; v. 265; p. 352.
- Behlen, Charles A., Cincinnati, Ohio. Coupling and draw-bar for trailers. No. 1,313,452; Aug. 19; v. 265; p. 352.
- Behlen, Charles A., Cincinnati, Ohio. Coupling and draw-bar for trailers. No. 1,313,453; Aug. 19; v. 265; p. 352.
- Behling, A. W. (See Johnson, George M., assignor.)
- Behn, Guido G., assignor to Essex Motors, Detroit, Mich. Adjustable shim for automobiles. No. 1,321,081; Nov. 11; v. 263; p. 200.
- Behn, Walter J., Detroit, Mich. Door-check. No. 1,302,286; Apr. 29; v. 261; p. 898.
- Behncke, David L., Chicago, Ill. Equalizer-fitting for airplane-wires. No. 1,322,868; Nov. 25; v. 268; p. 638.
- Behr, John, Jr., Middle Village, N. Y. Pleasure-railway. (Reissue.) No. 1,474,2; Oct. 28; v. 267; p. 624.
- Behrens, Rudolf, New York, N. Y. Amusement aerial railway. No. 1,300,555; Apr. 15; v. 261; p. 488.
- Behringer, Grover F., assignor to The Defiance Pressed Steel Company, Defiance, Ohio. Metal packing-box. No. 1,291,693; Jan. 14; v. 258; p. 423.
- Behringer, John, Chicago, Ill. Game apparatus. No. 1,321,589; Nov. 11; v. 268; p. 296.
- Behrman, Marcus B., New York, N. Y., assignor to Lox Seal Corporation. Tag-fastener. No. 1,308,771; July 8; v. 264; p. 168.
- Beidler, George C., Rochester, N. Y. Camera. No. 1,313,454; Aug. 19; v. 265; p. 352.
- Beier, William R. R., et al. (See Fawkes, Wilbert C., assignor.)
- Beiers, William H. (See Bessey and Beiers.)
- Beighlee, Earl H. (See Weiss, Alexander, assignor.)
- Beil, Joseph A., and F. J. Hoff, Youngstown, Ohio; said Hoff assignor, by mesne assignments, to W. J. Stuppy, Sharon, Pa. Automobile-lock. No. 1,294,754; Feb. 18; v. 259; p. 481.
- Beirns, John A., Detroit, Mich. Regulator for motor-generator systems. No. 1,297,989; Mar. 25; v. 260; p. 570.
- Beisel, William J., Brooklyn, N. Y. Non-refillable bottle. No. 1,324,786; Dec. 16; v. 269; p. 403.
- Beistle Company, The. (See McKenna, James, assignor.)
- Beiswinger, William C. (See Nicholson and Beiswinger.)
- Bekke, Atus L. K. H., Sidney, Mich. Potato-fork. No. 1,296,738; Mar. 11; v. 260; p. 244.
- Belair, Pacifique, et al. (See Guay, Adélar, assignor.)
- Beland, Frank, Cairo, Ill. Folding horse or trestle. No. 1,298,867; Apr. 1; v. 261; p. 57.
- Bélanger, Victor, Marshfield, assignor to New Era Spinning Co., Boston, Mass. Cap-spinning device. No. 1,294,371; Feb. 18; v. 259; p. 391.
- Belcher, Osmond T., Los Angeles, Calif. Aeroplane construction. No. 1,311,205; July 29; v. 264; p. 719.
- Belcher, Ralph R., Bainbridge, Ga. Shelving construction. No. 1,324,537; Dec. 9; v. 269; p. 294.
- Belcher, Rudolph, Chicago, Ill. Adjustable gusset for envelopes. No. 1,304,145; May 20; v. 262; p. 375.
- Belczynski, Jan. (See Nieznalski and Belczynski.)
- Beldam, George W., Ealing, and A. U. B. Ryall, Brentford, England. Sole and heel of boots and shoes. No. 1,297,061; Mar. 11; v. 260; p. 318.
- Belden, Edward H., assignor to Industrial Research Corporation, Toledo, Ohio. Steering mechanism. No. 1,323,815; Dec. 2; v. 269; p. 111.
- Belding, Harry, Los Angeles, Calif. Expansion-bushing. No. 1,304,250; May 20; v. 262; p. 395.
- Belefant, Benjamin, Brooklyn, N. Y. Condiment-holder. No. 1,322,752; Nov. 25; v. 268; p. 617.
- Belser, Adolf, Pittsburgh, Pa. Regulating-valve. No. 1,309,313; July 8; v. 264; p. 269.
- Bellis, Fernand. (See Pelletier and Bellis.)
- Belk, Augustus A., Mount Croghan, S. C. Plow attachment. No. 1,326,835; Dec. 30; v. 269; p. 839.
- Belk, James B., Charlottesville, Va. Pump. No. 1,318,718; Oct. 14; v. 267; p. 263.
- Belknap, Wilber C., assignor to Robert E. Miller, Inc., New York, N. Y. Rubber heel. No. 1,324,993; Dec. 16; v. 269; p. 440.
- Bell, Albert E., Harbor Springs, Mich. Milk-bottle and carrier for same. No. 1,294,029; Feb. 11; v. 259; p. 277.
- Bell, Alfred W., Milan, Tenn. Electric igniting device. No. 1,312,229; Aug. 5; v. 265; p. 70.
- Bell, Clinton L., Decatur, Ill. Hasp-lock. No. 1,321,783; Nov. 11; v. 268; p. 333.
- Bell, Edwin H., Chicago, Ill. Tie-plate. No. 1,318,334; Oct. 7; v. 267; p. 129.
- Bell, Edwin H., Chicago, Ill. Adjustable derailing device. No. 1,323,441; Dec. 2; v. 269; p. 41.
- Bell, Frederick J. T. and H. C., assignors to Twin Bobbin Sewing Machine Company Limited, Ashton-under-Lyne, England. Sewing-machine. No. 1,307,842; June 24; v. 263; p. 581.
- Bell, George H., White Sulphur Springs, Mont. Combined pump-spout and drinking-fountain. No. 1,295,677; Feb. 25; v. 259; p. 717.
- Bell, George H., deceased, Brooklyn, N. Y.; H. L. Bell, executrix. Vaporizer. No. 1,308,571; July 1; v. 264; p. 103.
- Bell, Hardy C. (See Bell, Frederick J. T. and H. C.)
- Bell & Howell Company. (See Howell, Albert S., assignor.)
- Bell, James H., Camarillo, Calif. Bean-cutter. No. 1,318,527; Oct. 14; v. 267; p. 227.
- Bell, Harriet L., executrix. (See Bell, George H.)
- Bell, John D. (See Reid and Bell.)
- Bell, John E., New York, N. Y. Superheater. No. 1,296,739; Mar. 11; v. 260; p. 244.
- Bell, John E., Brooklyn, N. Y. Marine boiler. No. 1,303,758; May 13; v. 262; p. 267.
- Bell, John E., Brooklyn, N. Y. Stack-sealing device. No. 1,311,435; July 29; v. 264; p. 762.
- Bell, John E., Brooklyn, N. Y. Damper. No. 1,311,436; July 29; v. 264; p. 762.
- Bell, John E., New York, N. Y. Furnace. No. 1,313,779; Aug. 19; v. 265; p. 414.
- Bell, John E., Mount Hamilton, Ontario, Canada. Rotary engine. No. 1,320,827; Nov. 4; v. 268; p. 88.
- Bell, John F., Pleasant Hill, Mo. Shingle-mill. No. 1,316,555; Sept. 23; v. 266; p. 455.
- Bell, John H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,296,613; Mar. 11; v. 260; p. 215.
- Bell, John H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,298,868; Apr. 1; v. 261; p. 58.
- Bell, John H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,300,326; Apr. 15; v. 261; p. 439.
- Bell, John H., East Orange, N. J., assignor to Western Electric Company, Incorporated. Distributing system. No. 1,308,391; July 1; v. 264; p. 70.
- Bell, John H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selecting system. No. 1,309,176; July 8; v. 264; p. 244.
- Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,296,740; Mar. 11; v. 260; p. 244.
- Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,306,299; June 10; v. 263; p. 233.
- Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,310,595; July 22; v. 264; p. 573.
- Bell, John W., Montreal, Quebec, Canada. Screening-machine. No. 1,291,371; Jan. 14; v. 258; p. 347.
- Bell, Joseph D., San Francisco, Calif. Combined bed and seat. No. 1,308,030; July 1; v. 264; p. 4.
- Bell, Joseph D., San Francisco, Calif. Rocking-coaster. No. 1,317,475; Sept. 30; v. 266; p. 664.
- Bell, Joseph S., Brooklyn, N. Y. Steam-engine. No. 1,325,186; Dec. 16; v. 269; p. 477.
- Bell, Leslie H., Paulina, Iowa. Heater for internal-combustion engines. No. 1,311,206; July 29; v. 264; p. 719.
- Bell, Mark J., assignor to Leo Shapiro & Company, Incorporated, Minneapolis, Minn. Display-rack. No. 1,308,031; July 1; v. 264; p. 5.
- Bell, Otis D., Brooklyn, N. Y. Fastener. No. 1,306,369; June 10; v. 263; p. 247.
- Bell, Otis D., Brooklyn, N. Y. Attachment for garment-pockets. No. 1,319,558; Oct. 21; v. 267; p. 449.
- Bell-Ranske, Jutta, New York, N. Y. Stage-scenery. No. 1,304,649; May 27; v. 262; p. 511.
- Bell, Raymond T., Chicago, Ill., assignor to The Mandel Corporation. Sound-box for sound-reproducing machines. No. 1,322,997; Nov. 25; v. 268; p. 663.
- Bell, Richard T., Toronto, Ontario, Canada. Advertising device. No. 1,306,739; June 17; v. 263; p. 347.
- Bell Talking Machine Corporation, The. (See Duffy, Peter S., assignor.)
- Bell, Thomas S., assignor, by mesne assignments, of one-half to J. L. Whitehurst, Baltimore, Md. Bottle-capping machine. No. 1,307,843; June 24; v. 263; p. 581.
- Bell, Thomas W., and T. C. Rogers, Sistersville, W. Va. Wire-line clamp. No. 1,308,924; July 8; v. 264; p. 196.
- Bell, William L., Santa Cruz, Cal. Surgical instrument for total hysterectomy. No. 1,292,998; Feb. 4; v. 259; p. 7.
- Bellamore, D. G. (See Bayley, Ivan A., assignor.)
- Bellamy, Harry T., Oak Park, Ill., and J. C. Smith, assignors to Western Electric Company, Incorporated, New York, N. Y. Process of and apparatus for drawing glass. No. 1,303,452; May 13; v. 262; p. 210.
- Bellard, Alfred, Paris, France. Apparatus for actuating the bolts of rifles or other weapons. No. 1,300,688; Apr. 15; v. 261; p. 514.
- Bellard, Alfred, Paris, France. Periscopic attachment for machine-guns. No. 1,300,689; Apr. 15; v. 261; p. 514.
- Bellard, Paul M., assignor to Compagnie D'Applications Mécaniques, Ivry Port, France. Device for gaging circular work. No. 1,308,324; July 1; v. 264; p. 58.
- Bellem, Louis H. L., assignor to la Société pour l'Exploitation des Brevets Bellem & Bregers, siège social, Paris, France. Pump with controllable delivery. No. 1,321,278; Nov. 11; v. 268; p. 237.



## Alphabetical list of patentees—Continued.

- Bellemere, Charles F., Kansas City, Mo. Film-hanger. No. 1,294,379; Feb. 18; v. 259; p. 393.
- Belleville, Edwin A. (See Belleville and Belleville.)
- Belleville, Napoleon, Lewiston, Me. Spirit-level and glass. No. 1,323,148; Nov. 25; v. 268; p. 691.
- Bellhouse, Thomas F., Sacramento, Cal. Flange-lubricator. No. 1,296,907; Mar. 11; v. 260; p. 283.
- Bellingham, John, Masterton, New Zealand. Concrete building-slab. No. 1,294,224; Feb. 11; v. 259; p. 323.
- Bellingham, John, assignor of one-half to W. B. Chennells, Masterton, New Zealand. Wall construction. No. 1,294,225; Feb. 11; v. 259; p. 323.
- Bellini, Ettore, Englihen les Bains, France. Apparatus for directed wireless telegraphy and telephony. No. 1,297,313; Mar. 18; v. 260; p. 402.
- Bellis, George C. (See Hoon, Levi S., assignor.)
- Bellonby, Leonard A., Dayton, Ohio. Mold. No. 1,309,607; July 15; v. 264; p. 361.
- Bellow, Edward A., Codsall, assignor of one-half to Kynoch, Limited, Witton, Birmingham, England. Hinge. No. 1,312,944; Aug. 12; v. 265; p. 238.
- Bellow, Edward A., Codsall, assignor of one-half to Kynoch, Limited, Witton, Birmingham, England. Hinge. No. 1,312,945; Aug. 12; v. 265; p. 238.
- Bellows, Harry C., Shreveport, La. Stitch-cutter. No. 1,295,101; Feb. 25; v. 259; p. 584.
- Bellows, Howard M., assignor to F. H. Auld, trustee, Columbus, Ohio. Device for securing name-plates and the like. No. 1,314,731; Sept. 2; v. 266; p. 49.
- Bellows, Warren S. (See Becker and Bellows.)
- Bellows, William S., Benton Harbor, Mich. Safety device for use in repairing the renewing insulators of high-voltage transmission-lines. No. 1,313,249; Aug. 19; v. 265; p. 315.
- Bellucci, Frank A., et al. (See Evangelista, Domenico, assignor.)
- Belville, Frank, and E. A. Belleville, Twin Falls, Idaho. Air-filter for gas-engines. No. 1,314,564; Sept. 2; v. 266; p. 17.
- Belville, Joseph, Detroit, Mich. Shoe-protector. No. 1,297,062; Mar. 11; v. 260; p. 318.
- Belmont, Ralph A. (See Schoenberg, Ralph A.)
- Belrose, Thomas H., et al., trustees. (See Standard, Maurice L., assignor.)
- Belt, William M., and H. C. Smith, assignors, by mesne assignments, to American Concrete Forms Company, Bloomington, Ill. Centering. No. 1,314,040; Aug. 26; v. 265; p. 497.
- Belton, John D., Crowley, La. Apparatus for treating food material. No. 1,307,075; June 17; v. 263; p. 409.
- Belyavin, Paul, Petrograd, Russia, and C. G. Robertson, Barrow-in-Furness, England. Scavenging of internal-combustion engines. No. 1,304,443; May 20; v. 262; p. 433.
- Belzian, Valentine, Los Angeles, Calif. Adjustable piano-bench. No. 1,308,729; July 1; v. 264; p. 132.
- Beman, Clifford W., North Emporia, Va. Heater. No. 1,315,078; Sept. 2; v. 266; p. 111.
- Bemis Bro. Bag Company. (See Allen, Preston H., assignor.)
- Bemis Bro. Bag Company. (See Allen, Preston H. and H. H., assignors.)
- Bemis, Edgar W., Worcester, Mass. Chuck. No. 1,320,113; Oct. 28; v. 267; p. 576.
- Bemis, Jesse, Belton, Mont. Saw-set. No. 1,293,308; Feb. 4; v. 259; p. 78.
- Bemis, John B., St. Paul, Minn. Crutch. No. 1,322,084; Nov. 18; v. 268; p. 439.
- Bemis, Kenneth E., Stillwater, Minn. Cigarette-case. No. 1,323,442; Dec. 2; v. 269; p. 41.
- Bernard Barbier & Turenne. (See Granat, Elie, assignor.)
- Benas, Maurice E., Charleston, W. Va. Rocking toy. No. 1,312,382; Aug. 5; v. 265; p. 98.
- Benas, Maurice E., Nitro, W. Va. Oar-propelled vehicle. No. 1,321,030; Nov. 4; v. 268; p. 127.
- Bench, George E., Leeds, England. Flexible coupling for shafting. No. 1,306,943; June 17; v. 263; p. 384.
- Bendelari, Arthur E. (See De Mier, Fred, assignor.)
- Bender, Allan P., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric fuse. No. 1,290,860; Jan. 7; v. 258; p. 202.
- Bender, Andrew, Bogota, N. J., assignor of one-third to E. S. Beach, Ridgefield, Conn. Sulfonation of aromatic hydrocarbons. No. 1,301,860; Apr. 22; v. 261; p. 693.
- Bender, George A., Pittsburgh, Pa. Collapsible shipping-case. No. 1,310,777; July 22; v. 264; p. 606.
- Bender, Henry J. (See Cooney and Bender.)
- Bender, Louis, Hoboken, N. J. Attachment for tree-guards. No. 1,292,999; Feb. 4; v. 259; p. 7.
- Bender, Louis, Hoboken, N. J. Tree-guard. No. 1,293,000; Feb. 4; v. 259; p. 7.
- Bendheim, Edward, San Francisco, Calif. Suspender attachment. No. 1,311,853; July 29; v. 264; p. 839.
- Bendit, Louis, Chelsea, Okla. Producing lampblack. No. 1,304,729; May 27; v. 262; p. 526.
- Bendix, Herman G., and H. Forth, assignors to M. Cangan, Brooklyn, N. Y. Shoe-heel-breast buffer and paper-former. No. 1,326,836; Dec. 30; v. 269; p. 839.
- Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,294,755; Feb. 18; v. 259; p. 482.
- Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,299,418; Apr. 8; v. 261; p. 210.
- Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,299,419; Apr. 8; v. 261; p. 210.
- Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,308,752; July 8; v. 264; p. 165.
- Bendixen, Niels, High Holborn, London, England. Means for molding powdered substances. No. 1,309,112; July 8; v. 264; p. 232.
- Bendlage, Theodore J., Marshalltown, Iowa. Sanitary heated stock-fountain. No. 1,301,805; Apr. 29; v. 261; p. 808.
- Bendure, Orville D., Mound City, Kans. Riding attachment for cultivators. No. 1,303,533; May 13; v. 262; p. 226.
- Béné, Eugène M., Montreal, Quebec, Canada. Automatic knife attachment for wet-machines. No. 1,322,283; Nov. 18; v. 268; p. 477.
- Benedek, Victor, Chicago, Ill. Soldering-iron furnace. No. 1,314,383; Aug. 26; v. 265; p. 563.
- Benedek, Victor, Chicago, Ill. Soldering-iron furnace. No. 1,324,296; Dec. 9; v. 269; p. 247.
- Benedict, Bernard, assignor to Traders Metal Goods Co. Inc., New York, N. Y. Flash-light. No. 1,308,032; July 1; v. 264; p. 5.
- Benedict, Bernard, assignor to National Carbon Company, Inc., New York, N. Y. Portable electric light. No. 1,315,457; Sept. 9; v. 266; p. 190.
- Benedict, Dirck C., Bellingham, Wash. Necktie-holder. No. 1,298,439; Mar. 25; v. 260; p. 666.
- Benedict, Edward. (See Reynolds, Arthur W., assignor.)
- Benedict, Edward L., Baltimore, assignor of one-half to O. O. Robinson, Baltimore county, Md. Curb-bar. No. 1,311,485; July 29; v. 264; p. 771.
- Benedict, Edward L., Baltimore, assignor of one-half to O. O. Robinson, Baltimore county, Md. Building structure. No. 1,311,486; July 29; v. 264; p. 771.
- Benedict, Ernest M., Cincinnati, Ohio. Machine for washing dishes. (Reissue.) No. 14,612; Mar. 18; v. 260; p. 544.
- Benedict, Henry L., New Orleans, La. Jack. No. 1,324,721; Dec. 9; v. 269; p. 328.
- Benedict, Joseph J., Cleveland, Ohio. Circuit-closer for vehicle-signals. No. 1,317,906; Oct. 7; v. 267; p. 46.
- Benedict, Louis K., Hastings, Fla. Tractor-wheel. No. 1,309,010; July 8; v. 264; p. 213.
- Benedict, Martin H., Mohawk, N. Y. Dust-pan. No. 1,311,802; July 29; v. 264; p. 830.
- Benedict, Paul M., New Haven, assignor to The B & K Mfg. Co., Milldale, Conn. Wire or cable clamp. No. 1,307,340; June 24; v. 263; p. 490.
- Benedict, Paul M., New Haven, assignor to The Barnes & Kobert Manufacturing Company, Milldale, Conn. Pole-stap. No. 1,322,869; Nov. 25; v. 268; p. 638.
- Benenati, Francis S., Syracuse, N. Y. Preserving matter. No. 1,292,401; Jan. 21; v. 258; p. 627.
- Benensohn, Samuel. (See La Chapelle and Benensohn.)
- Benerlin, Clifton, Condon, Oreg. Velocipede. No. 1,297,314; Mar. 18; v. 260; p. 402.
- Bengough, Guy D., and O. F. Hudson, London, assignors to themselves, to The Imperial Trust for the Encouragement of Scientific and Industrial Research, and to The Institute of Metals, Westminster, England. Protecting copper and its alloys from attack by atmospheres or liquids. No. 1,319,508; Oct. 21; v. 267; p. 439.
- Bengtson, Ruben R. B. (See Nordling and Bengtson.)
- Benham, Albert H., Rochester, N. Y. Typographic numbering-machine. No. 1,303,014; May 6; v. 262; p. 102.
- Benham, Dallas B. (See Kelsey and Benham.)
- Benjamin, Albert W., Yarker, Ontario, Canada. Wheel. No. 1,318,475; Oct. 14; v. 267; p. 217.
- Benjamin, Bert R., Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Harvester-thresher. No. 1,301,361; Apr. 22; v. 261; p. 693.
- Benjamin, Bert R., Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Bagging mechanism for harvester threshers or strippers. No. 1,301,362; Apr. 22; v. 261; p. 693.
- Benjamin, Bert R., Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Grain-distributing mechanism. No. 1,312,302; Aug. 5; v. 265; p. 83.
- Benjamin, Bert R., Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Harvesting machinery. No. 1,325,614; Dec. 23; v. 269; p. 573.
- Benjamin, Charles S., East Orange, N. J., assignor to General Chemical Company, New York, N. Y. Chipped niter cake and making same. No. 1,312,430; Aug. 5; v. 265; p. 108.
- Benjamin, Clarence F., Milford, Conn. Combined carpenter's square and miter-gage. No. 1,295,841; Mar. 4; v. 260; p. 5.
- Benjamin, Dana H., Cleveland, Ohio. Pulley. No. 1,321,184; Nov. 11; v. 268; p. 219.
- Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Shirt-pressing machine. No. 1,322,284; Nov. 18; v. 268; p. 477.
- Benjamin Electric Manufacturing Company. (See Anderson, Ernst G. K., assignor.)
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)



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- Benjamin Electric Manufacturing Company. (See Dean, William W., assignor.)
- Benjamin Electric Manufacturing Company. (See Gordon, David D., assignor.)
- Benjamin Electric Manufacturing Company. (See Grigsby, Bertram J., assignor.)
- Benjamin Electric Manufacturing Company. (See Harlow, Clarence B., assignor.)
- Benjamin Electric Manufacturing Company. (See Tregoning, William C., assignor.)
- Benjamin, Elmer S. (See Stahl, Benjamin, Griffith, and Lofland.)
- Benjamin, George H., New York, N. Y. Tunnel-kiln. No. 1,292,568; Jan. 28; v. 258; p. 689.
- Benjamin, George H., New York, N. Y. Tunnel-kiln. No. 1,294,756; Feb. 18; v. 259; p. 482.
- Benjamin, George H., New York, N. Y. Continuous tunnel-kiln. No. 1,295,955; Mar. 4; v. 260; p. 31.
- Benjamin, George H., New York, N. Y. Evaporator. No. 1,302,625; May 6; v. 262; p. 27.
- Benjamin, George H., New York, N. Y. Tunnel-kiln. No. 1,311,487; July 29; v. 264; p. 772.
- Benjamin, George H., New York, N. Y. Manufacturing steel. No. 1,314,384; Aug. 26; v. 265; p. 564.
- Benjamin, George H., New York, N. Y. Extracting sugar from dried sugar-beets. No. 1,319,320; Oct. 21; v. 267; p. 403.
- Benjamin, George H., New York, N. Y. assignor to Draper Corporation, Hopedale, Mass. Bobbin. No. 1,291,372; Jan. 14; v. 258; p. 347.
- Benjamin, George R. (See Yorke and Benjamin.)
- Benjamin, George R., Jersey City, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Automatic transmitter. No. 1,298,440; Mar. 25; v. 260; p. 666.
- Benjamin, Henry J., New York, N. Y. Tank-registering device. No. 1,300,327; Apr. 15; v. 261; p. 439.
- Benjamin, J. H. (See Woodward, Garrett W., assignor.)
- Benjamin, John M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for separating lasts and shoes. No. 1,299,816; Apr. 8; v. 261; p. 301.
- Benjamin, John M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Healing-machine. No. 1,301,898; Apr. 29; v. 261; p. 825.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Screw contact device. No. 1,290,053; Jan. 7; v. 258; p. 10.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Snap-switch. No. 1,293,309; Feb. 4; v. 259; p. 78.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Attachment-plug. No. 1,300,812; Apr. 15; v. 261; p. 542.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical receptacle. No. 1,308,977; July 8; v. 264; p. 206.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector. No. 1,319,920; Oct. 28; v. 267; p. 540.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Receptacle. No. 1,320,196; Oct. 28; v. 267; p. 591.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Binding-terminal. No. 1,321,880; Nov. 18; v. 268; p. 402.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Connector for electric wires. No. 1,324,994; Dec. 16; v. 269; p. 440.
- Benjamin, Reuben B., and E. G. K. Anderson, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-plug. No. 1,316,671; Sept. 23; v. 266; p. 478.
- Benjamins, Israel, Bathbeach, N. Y. Supporting and hoisting mechanism. No. 1,307,653; June 24; v. 263; p. 546.
- Benkert, Percy B., Sydenham, London, England. Bracket for supporting lamps and the like. No. 1,297,533; Mar. 18; v. 260; p. 446.
- Benn, Alonzo N., Chicago, Ill. Foot-warmer. No. 1,290,882; Jan. 14; v. 258; p. 234.
- Benn, Alonzo N., Chicago, Ill. Safety-razor. No. 1,308,730; July 1; v. 264; p. 133.
- Benn, Lee R., Tama, Iowa. Spark-plug. No. 1,307,176; June 17; v. 263; p. 426.
- Bennehoff, Lyle, *et al.* (See Babcock, Irwin H., assignor.)
- Benner, Edward, Los Angeles, Calif. Irrigating-valve. No. 1,301,030; Apr. 15; v. 261; p. 589.
- Benner, Henry L., assignor of one-half to R. W. Withington, Philadelphia, Pa. Wire-drawing machine. No. 1,316,411; Sept. 16; v. 266; p. 379.
- Benner, Raymond C. (See French and Benner.)
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors, by mesne assignments, to National Carbon Company, Inc. Electric battery. No. 1,303,453; May 13; v. 262; p. 211.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors, by mesne assignments, to National Carbon Company, Inc. Electric battery. No. 1,316,760; Sept. 23; v. 266; p. 494.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Electric battery. No. 1,316,761; Sept. 23; v. 266; p. 494.
- Benner, William P., Saegerstown, Pa. Visible-dispensing container. No. 1,326,837; Dec. 30; v. 269; p. 839.
- Benner, Winthrop W. (See Young and Benner.)
- Bennett, Albert L., Kansas City, Mo. Cushion-wheel. No. 1,304,011; May 20; v. 262; p. 351.
- Bennett, Alfred A., assignor to The Copperstone Products Company, Toledo, Ohio. Cement composition. No. 1,310,520; July 22; v. 264; p. 559.
- Bennett, Alvin R., Bowie, Colo. Nut-lock. No. 1,323,571; Dec. 2; v. 269; p. 66.
- Bennett, Ashley C., Minneapolis, Minn. Air-cleaner. No. 1,323,816; Dec. 2; v. 269; p. 111.
- Bennett, Ashley C., Minneapolis, Minn. Carbureter. No. 1,326,170; Dec. 30; v. 269; p. 713.
- Bennett, Clarence W., New York, N. Y. Toy. No. 1,317,952; Oct. 7; v. 267; p. 55.
- Bennett, Clark. (See Hagen, Albert O., assignor.)
- Bennett, Clark H., Chicago, Ill. Apparatus for manufacturing varnish. No. 1,298,159; Mar. 25; v. 260; p. 606.
- Bennett, Clark H., Chicago, Ill., assignor to Cornell Wood Products Company, Cornell, Wis. Sizing. No. 1,299,663; Apr. 8; v. 261; p. 267.
- Bennett, Ebenezer. (See Parsons, Bennett, and Rowe.)
- Bennett, Elmer A., Cliftondale, Mass. Clothes-line fastener. No. 1,297,782; Mar. 18; v. 260; p. 501.
- Bennett, Erastus B., Denver, Colo. Concentrator and amalgamator. No. 1,292,684; Jan. 28; v. 258; p. 718.
- Bennett, Erastus B., San Francisco, Calif. Apparatus for separating minerals. No. 1,320,526; Nov. 4; v. 268; p. 32.
- Bennett, Erastus S., New York, N. Y. High-speed transmission. No. 1,293,310; Feb. 4; v. 259; p. 79.
- Bennett, Ernest C., New York, N. Y. Removable denture. No. 1,302,499; May 6; v. 262; p. 4.
- Bennett, Ernest O., Bluefield, W. Va. Electric switch. No. 1,294,862; Feb. 18; v. 259; p. 507.
- Bennett, Ethel M. (See Backus, Oscar E., assignor.)
- Bennett, Frank C., Jamestown, N. D. Cutting-board. No. 1,307,844; June 24; v. 263; p. 581.
- Bennett, Frederick, Ravenswood, assignor to Walker & Bennett Manufacturing Company, New York, N. Y. Car-seat. No. 1,291,732; Jan. 21; v. 258; p. 463.
- Bennett, Frederick M., assignor of one-half to G. I. James, Philadelphia, Pa. Speed-indicator. No. 1,323,240; Dec. 2; v. 269; p. 3.
- Bennett, Furlong M., Bluefield, W. Va., and H. S. Bennett, Blairsville, Pa. Fastener for automobile-chains. No. 1,297,063; Mar. 11; v. 260; p. 318.
- Bennett, Harlan S. (See Bennett, Furlong M. and H. S.)
- Bennett, Harry J., assignor of one-half to S. J. Michelson, Phoenix, Ariz. Apparatus for raising ships. No. 1,314,119; Aug. 26; v. 265; p. 512.
- Bennett, Herbert, Los Angeles, Calif. Auto-bed. No. 1,321,703; Nov. 11; v. 268; p. 317.
- Bennett, Isaiah W., assignor to himself and J. L. Bennett, New York, N. Y. Hand-propelled vehicle. No. 1,319,321; Oct. 21; v. 267; p. 403.
- Bennett, James P. (See George, Ralph D., assignor.)
- Bennett, John D., Conneaut, Ohio. Clamp. No. 1,322,520; Nov. 25; v. 268; p. 573.
- Bennett, Joseph P., Duluth, Minn. Means for treating match-splints with powdered material. No. 1,326,633; Dec. 30; v. 269; p. 800.
- Bennett, Marvin D., Sidney, N. Y. Car-bumper. No. 1,291,373; Jan. 14; v. 258; p. 347.
- Bennett, Marvin D., Sidney, N. Y. Anchoring device for railway rolling-stock bumpers. No. 1,300,108; Apr. 8; v. 261; p. 365.
- Bennett, Orin, assignor to Pacific Coast Typewriter Company, Placerville, Calif. Telegraphic typewriter. No. 1,312,775; Aug. 12; v. 265; p. 205.
- Bennett, Paul G., Wilkes-Barre, Pa., assignor to Spicer Mfg. Corporation, South Plainfield, N. J. Case for universal joints. No. 1,293,311; Feb. 4; v. 259; p. 79.
- Bennett, Samuel. (See Calow, Stanley C., assignor.)
- Bennett, Stevens A., assignor to Wilson & Bennett Mfg. Co., Chicago, Ill. Protecting-ring for barrels. No. 1,303,153; May 6; v. 262; p. 129.
- Bennett, Thomas W., Burslem, England. Teapot and other vessel having similar spouts. No. 1,292,569; Jan. 28; v. 258; p. 690.
- Bennett, Wilbur V. (See Sharpnack, Matthew C., assignor.)
- Bennion, Charles F., Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Gripper. No. 1,305,435; June 3; v. 263; p. 39.
- Bennion, Percival H., St. Paul, Minn. Automobile-curtain. No. 1,318,528; Oct. 14; v. 267; p. 227.
- Benoit, Edward F., New Bedford, Mass. Sliver-cleaner. No. 1,325,345; Dec. 16; v. 269; p. 506.
- Benon, Moritz, New York, N. Y., assignor to E. Ekstrom, Gottenborg, Sweden. Recording mechanism. No. 1,297,637; Mar. 18; v. 260; p. 468.
- Bensall, Edmund E. (See Bingham, George C., assignor.)
- Benson, Andrew, assignor to Benson Gear Company, Chicago, Ill. Cutting worm-gears. No. 1,302,126; Apr. 29; v. 261; p. 808.



## Alphabetical list of patentees—Continued.

- Benson, Andrew, assignor to Janesville Products Company, Janesville, Wis. Ball-bearing hub. No. 1,303,235; May 13; v. 262; p. 172.
- Benson, Andrew, assignor to Janesville Products Company, Janesville, Wis. Sheet-metal wheel and the like and making same. No. 1,303,236; May 13; v. 262; p. 173.
- Benson, Andrew, Janesville, Wis., and L. E. Curtis, Kenilworth, Ill., assignors to Trussed Concrete Steel Company, Detroit, Mich. Forming expanded metal. No. 1,292,570; Jan. 28; v. 258; p. 690.
- Benson, Andrew, Janesville, Wis., and L. E. Curtis, Kenilworth, Ill., assignors to Trussed Concrete Steel Company, Detroit, Mich. Forming expanded metal. No. 1,292,685; Jan. 28; v. 258; p. 718.
- Benson, David, Lamolite, Ill. Stock-fountain. No. 1,311,374; July 29; v. 264; p. 750.
- Benson, Edgar O., Cranston, R. I. Vacuum heating system. No. 1,294,380; Feb. 18; v. 259; p. 393.
- Benson, Fred F., Chinook, Mont. Crate. No. 1,292,410; Jan. 28; v. 258; p. 652.
- Benson, Fred F., Chinook, Mont. Automobile-fender. No. 1,294,996; Feb. 18; v. 259; p. 537.
- Benson, Fred F., Chinook, Mont. Candle-holder. No. 1,295,679; Feb. 25; v. 259; p. 718.
- Benson, Fred F., Chinook, Mont. Writing-stand. No. 1,295,680; Feb. 25; v. 259; p. 718.
- Benson, Fred F., Galata, Mont. Rail-joint. No. 1,295,678; Feb. 25; v. 259; p. 717.
- Benson Gear Company. (See Benson, Andrew, assignor.)
- Benson & Hedges. (See Hicks, Richard W., assignor.)
- Benson, John A. (See Gasstrom and Benson.)
- Benson, Melvin B., Superior, Wis. Propelling and braking means for traveling cranes and carriages. No. 1,320,971; Nov. 4; v. 268; p. 116.
- Benson, Peter, Kootenai, Idaho. Geometrical instrument. No. 1,306,165; June 10; v. 263; p. 206.
- Benson, Sherman S., York, Neb. Aeroplane-stabilizer. No. 1,293,312; Feb. 4; v. 259; p. 79.
- Benson, Willis R., Oakley, Idaho. Sheep-shearing machine. No. 1,318,831; Oct. 14; v. 267; p. 284.
- Bent, Arthur F., Swampscott, assignor to G. W. Bent Co., Boston, Mass. Crib. No. 1,293,001; Feb. 4; v. 259; p. 7.
- Bentivegna, Filippo, Boston, Mass. Ash-sifter. No. 1,294,757; Feb. 18; v. 259; p. 482.
- Bentivegna, Filippo, Boston, Mass. Kettle. No. 1,295,414; Feb. 25; v. 259; p. 656.
- Bentley, Dozier T., et al. (See Butterfield, Charles V., assignor.)
- Bentley, Edward M., Lawrence, N. Y. Rheostat. No. 1,313,853; Aug. 19; v. 265; p. 428.
- Bentley, John H., Midland Park, N. J. Direct warping and beaming machine. No. 1,315,458; Sept. 9; v. 266; p. 190.
- Bentley, Oliver D. H. (See Caracristi and Bentley.)
- Bentley, Oliver D. H., West Roxbury, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Lubricating system for turbines and the like. No. 1,291,374; Jan. 14; v. 258; p. 348.
- Bentley, Oliver D. H., Roslindale, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Lubricating device. No. 1,304,730; May 27; v. 262; p. 526.
- Bentley, Oliver D. H., Roslindale, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Lubricating system for condensing-turbines and the like. No. 1,305,958; June 3; v. 263; p. 138.
- Bentley, Oliver D. H., West Roxbury, and J. H. Gibbs, Readville, assignors to B. F. Sturtevant Company, Hyde Park, Mass. Gearing. No. 1,309,113; July 8; v. 264; p. 232.
- Bentley, Raymond B., East San Pedro, Calif. Fish-tray. No. 1,301,031; Apr. 15; v. 261; p. 589.
- Benton, David W., Clay, W. Va. Pen-rack. No. 1,293,002; Feb. 4; v. 259; p. 8.
- Benton, Frank W., Wilson, N. C. Parachute. No. 1,308,033; July 1; v. 264; p. 5.
- Bentz, Harry. (See Goubert, Auguste A., assignor.)
- Bentz, Harry. (See Mangelsdorf, Max F., assignor.)
- Benz, Frederick, Jr., Haledon, N. J., assignor to J. Frank, New York, N. Y. Batten structure for narrow-ware looms. No. 1,301,900; Apr. 29; v. 261; p. 826.
- Benz, Leonhardt W., New Orleans, La. Culvert construction. No. 1,313,667; Aug. 19; v. 265; p. 392.
- Benzer Corporation, The. (See Benzer, Louis and H., assignors.)
- Benzer, Henry. (See Benzer, Louis and H.)
- Benzer, Louis and H., assignors to The Benzer Corporation, Brooklyn, N. Y. Lens for headlights. No. 1,314,458; Aug. 26; v. 265; p. 578.
- Benziger, Martha M., Brooklyn, N. Y. Oven-thermometer. No. 1,326,386; Dec. 30; v. 269; p. 753.
- Benziger, Albert, assignor of one-half to W. M. Schoenle, Cincinnati, Ohio. Radiator. No. 1,319,509; Oct. 21; v. 267; p. 439.
- Berardi, Fortunato, Naples, Italy. Bearing for pulleys and like shafts. No. 1,320,972; Nov. 4; v. 268; p. 116.
- Berardinelli, Ettore, Philadelphia, Pa. Folding door. No. 1,318,433; Oct. 14; v. 267; p. 209.
- Berdahl, Herman M., Colton, S. D. Oil-can. No. 1,307,478; June 24; v. 263; p. 515.
- Berdon, Albert E., Detroit, Mich. Throttle-valve governor for motors. No. 1,325,615; Dec. 23; v. 269; p. 573.
- Berenbroick, Frederick. (See Coe, Addison, assignor.)
- Berentsen, Hans G., New York, N. Y. Marine projectile. No. 1,294,604; Feb. 18; v. 259; p. 446.
- Berentsen, Hans G., New York, N. Y. Marine projectile. No. 1,294,605; Feb. 18; v. 259; p. 446.
- Bereznoy, Peter D., Waterbury, Conn. Toy. No. 1,314,783; Sept. 2; v. 266; p. 58.
- Berg, Alexander, St. Louis, Mo. Artificial bait for traps. No. 1,319,832; Oct. 28; v. 267; p. 524.
- Berg, August, Brownsview, Wash. Pole-climbing scaffold. No. 1,299,289; Apr. 1; v. 261; p. 153.
- Berg, August J., Chicago, Ill. Automatic-drop wheel-guard. No. 1,317,678; Oct. 7; v. 267; p. 4.
- Berg, Charles. (See Bache and Berg.)
- Berg, Charles I., New York, N. Y., assignor to The Invisible Roll Screen Co. Inc. Lantern-slide. No. 1,291,375; Jan. 14; v. 258; p. 348.
- Berg, Frederick A., Chicago, Ill. Parachute. No. 1,310,467; July 22; v. 264; p. 549.
- Berg, Gustaf A., Chicago, Ill. Cotter-pin puller. No. 1,302,287; Apr. 29; v. 261; p. 898.
- Berg, Jacob, et al. (See Berg, Johannes, assignor.)
- Berg, Johannes, assignor of one-third to R. Berg and one-third to J. Berg, Chicago, Ill. Air-brush. No. 1,299,290; Apr. 1; v. 261; p. 153.
- Berg, John, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Seal-moistening machine. No. 1,314,941; Sept. 2; v. 266; p. 85.
- Berg Joseph, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Bumper bracket and clamp. No. 1,294,381; Feb. 18; v. 259; p. 393.
- Berg, Joseph, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Tachometer drive connection. No. 1,298,646; Apr. 1; v. 261; p. 5.
- Berg, Joseph, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle-lamp-supporting clamp. No. 1,300,328; Apr. 15; v. 261; p. 439.
- Berg, Joseph, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Adjustable drive for speedometers. No. 1,300,329; Apr. 15; v. 261; p. 439.
- Berg, Joseph, Little Rock, Ark. Gas-engine starter. No. 1,315,274; Sept. 9; v. 266; p. 156.
- Berg, Olav, et al. (See Koch, George, assignor.)
- Berg, Reidar, et al. (See Berg, Johannes, assignor.)
- Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Flexible shafting. No. 1,324,787; Dec. 16; v. 269; p. 403.
- Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer. No. 1,324,788; Dec. 16; v. 269; p. 403.
- Bergen, Abram S., New York, N. Y. Carbureter. No. 1,296,454; Mar. 4; v. 260; p. 143.
- Bergen, George B., assignor, by mesne assignments, to Keeran Products Company, Chicago, Ill. Automatic pencil. No. 1,319,039; Oct. 21; v. 267; p. 359.
- Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Automatic weighing-scale. No. 1,294,382; Feb. 18; v. 259; p. 394.
- Bergen, Harry S., Toledo, Ohio, assignor to Toledo Scale Company, Jersey City, N. J. Weighing-scale. No. 1,305,992; June 10; v. 263; p. 174.
- Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,310,940; July 22; v. 264; p. 636.
- Bergen, John F. (See Marcus and Bergen.)
- Bergen, Paul, Richmond, Wis. Non-refillable container. No. 1,300,917; Apr. 15; v. 261; p. 564.
- Bergen-Sterhof, George M., St. Louis, Mo. Hydrocarbon-burner. No. 1,304,731; May 27; v. 262; p. 526.
- Bergendorf, Ferdinand. (See Anderson and Bergendorf.)
- Bergens, William J., assignor to Universal Faucet Company, Muskegon, Mich. Mixing-valve. No. 1,293,003; Feb. 4; v. 259; p. 8.
- Berger, Christian, New York, N. Y. Measuring apparatus. No. 1,295,842; Mar. 4; v. 260; p. 5.
- Berger, Joseph, Detroit, Mich. Circuit-closer for automobile-signals. No. 1,290,701; Jan. 7; v. 258; p. 166.
- Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,296,455; Mar. 4; v. 260; p. 143.
- Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,294,226; Feb. 11; v. 259; p. 324.
- Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Throat-plate for sewing-machines. No. 1,305,051; May 27; v. 262; p. 586.
- Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Needle-clamp. No. 1,309,272; July 8; v. 264; p. 261.
- Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,312,823; Aug. 12; v. 263; p. 215.
- Berger, Joseph, Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,321,502; Nov. 11; v. 268; p. 280.



- Berger, Moris M., Cleveland Heights, Ohio. Plumbing-fixture for bath-tubs. No. 1,290,702; Jan. 7; v. 258; p. 167.
- Berger, Otto R., Chicago, Ill. Cooking utensil. No. 1,323,817; Dec. 2; v. 269; p. 111.
- Bergeron, Alexander J., Des Moines, Iowa. Machine for submarine salvage operations. No. 1,304,012; May 20; v. 262; p. 351.
- Bergeron, Gilbert O. (See Metz and Bergeron.)
- Bergeron, Hippolyte, Montreal, Quebec, Canada. Furnace. No. 1,317,418; Sept. 30; v. 266; p. 653.
- Bergeron, Jasmin P., Pasadena, Calif. Valve for explosive-engines. No. 1,326,838; Dec. 30; v. 269; p. 839.
- Bergeron, Jasmin P., Los Angeles, Calif., assignor of one-half to H. C. Shippee. Rail-fastening device. No. 1,318,640; Oct. 14; v. 267; p. 248.
- Bergerud, Gilbert S., Fergus Falls, Minn. Hay-loader. No. 1,306,462; June 10; v. 263; p. 264.
- Bergey, Aaron E., Avalon borough, Pa. Mechanism for driving hand-tools. No. 1,292,420; Jan. 28; v. 258; p. 652.
- Bergh, Jens, Drammen, Norway. Device for lowering of life-boats and the like. No. 1,323,734; Dec. 2; v. 269; p. 95.
- Bergher, Elias, San Francisco Calif. Military kite. No. 1,326,434; Dec. 30; v. 269; p. 762.
- Bergin, William, Lewistown, Mont. Submarine. No. 1,324,722; Dec. 9; v. 269; p. 328.
- Bergius, Friedrich, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing chlorin and sulfates from chlorids. No. 1,326,634; Dec. 30; v. 269; p. 801.
- Berglund, Gunder O., Deerfield, Wis. Concrete-mixer. No. 1,321,082; Nov. 11; v. 268; p. 200.
- Berglann, Christian J., Seattle, Wash. Stove. No. 1,319,322; Oct. 21; v. 267; p. 404.
- Berglof, Knut, Monessen, Pa., assignor, by mesne assignments, to Parenti Motors Corporation, Buffalo, N. Y. Gas-engine. No. 1,324,759; Dec. 9; v. 269; p. 335.
- Berglund, Edward S., Trollhättan, assignor to S. Hultdt, Stockholm, Sweden. Extraction of lead. No. 1,306,942; June 17; v. 263; p. 383.
- Berglund, John L., assignor to The Smith & Egge Manufacturing Company, Bridgeport, Conn. Punch. No. 1,308,272; July 1; v. 264; p. 49.
- Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Illuminating-projectile. No. 1,305,186; May 27; v. 262; p. 612.
- Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Illuminating-shell. No. 1,305,187; May 27; v. 262; p. 612.
- Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Illuminating-projectile. No. 1,305,188; May 27; v. 262; p. 612.
- Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Hand-grenade. No. 1,315,592; Sept. 9; v. 266; p. 214.
- Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Illuminating-shell. No. 1,318,719; Oct. 14; v. 267; p. 263.
- Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Illuminating-shell. No. 1,318,720; Oct. 14; v. 267; p. 263.
- Bergman, Axel G., Jersey City, N. J., assignor of one-half to T. H. Newkirk, New York, N. Y. Trench-gun. No. 1,317,419; Sept. 30; v. 266; p. 653.
- Bergman, Edmond J., Vincennes, Ind. Demountable-rim fastener. No. 1,308,616; July 1; v. 264; p. 111.
- Bergman, Erick P., and F. McMurtrey, Cherokee, Okla. Breeder's semen-preserver. No. 1,293,004; Feb. 4; v. 259; p. 8.
- Bergman, Zakaria N., assignor of one-half to H. C. Schmidt, Los Angeles, Calif. Varnish and making the same. No. 1,307,805; June 24; v. 263; p. 574.
- Bergmann, Conrad, Philadelphia, Pa. Gas-heater. No. 1,304,531; May 27; v. 262; p. 489.
- Bergmann, Frederick H. D., St. Louis, Mo. Non-removable securing member. No. 1,321,796; Nov. 11; v. 268; p. 335.
- Bergonie, Jean, Bordeaux, France. Means for vocalizing foreign substances which have become embedded in the human body. No. 1,307,654; June 24; v. 263; p. 546.
- Bergougoux, Jean B., Chicago, Ill. Auxiliary feeding device for internal-combustion engines. No. 1,299,817; Apr. 8; v. 261; p. 302.
- Bergquist, Lars G., Shaunavon, Saskatchewan, Canada. Flue-cleaner. No. 1,321,704; Nov. 11; v. 268; p. 318.
- Bergren, John A., assignor of one-twentieth to A. Holmgren, three-twentieths to J. H. Moan, three-twentieths to C. H. Kelson, one-twentieth to C. T. Strand, and two-twentieths to A. F. Youngberg, Lake Park, Minn. Plow-lifting device for gang-plows. No. 1,296,039; Mar. 4; v. 260; p. 51.
- Bergsvik, Chris., Yankton, S. D. Spectacles. No. 1,309,793; July 15; v. 264; p. 395.
- Berke, Steven R. (See Berkowitz, Steven R.)
- Berkebile, Leroy V., Kantner, Pa. Carbureter. No. 1,314,942; Sept. 2; v. 266; p. 85.
- Berkeley, Laurence J., assignor to Hercules Manufacturing Company, Racine, Wis. Spike-machine. No. 1,298,281; Mar. 25; v. 260; p. 633.
- Berkeley, Laurence J., Racine, Wis., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,301,219; Apr. 22; v. 261; p. 664.
- Berkeley, Laurence J., Racine, Wis., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,301,798; Apr. 22; v. 261; p. 777.
- Berkeley, Laurence J., Racine, Wis., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,303,237; May 13; v. 262; p. 173.
- Berkeley, Laurence J., Racine, Wis., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,303,238; May 13; v. 262; p. 173.
- Berkeley, Laurence J., Racine, Wis., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,303,239; May 13; v. 262; p. 173.
- Berkeley Light Corporation. (See Wood, William G., assignor.)
- Berkley, Richard H., Plainville, Mass., assignor to Whiting & Davis Company. Apparatus for treating link-mesh made from solder-core wire. No. 1,305,052; May 27; v. 262; p. 586.
- Berkley, Richard H., Plainville, Mass., assignor to Whiting & Davis Company. Machine for carding snap-fasteners. No. 1,307,997; June 24; v. 263; p. 610.
- Berkley, Richard H., Plainville, Mass., assignor to Whiting & Davis Company. Machine for making link mesh. No. 1,317,679; Oct. 7; v. 267; p. 4.
- Berkoff, Vladimir, Mount Vernon, N. Y. Line-dotter. No. 1,293,313; Feb. 4; v. 259; p. 79.
- Berkovitz, Samuel, New York, N. Y. Spool-holding apparatus for factory-machines. No. 1,303,015; May 6; v. 262; p. 102.
- Berkowitz, Aaron, New York, N. Y. Hand-operated gummed binding-sealer. No. 1,307,891; June 24; v. 263; p. 590.
- Berkowitz, Eugene B., Kansas City, Mo. Patch-box for envelop-making machines. No. 1,311,636; July 29; v. 264; p. 799.
- Berkowitz, Marcus, Spring Valley, N. Y. Combination-stove. No. 1,322,159; Nov. 18; v. 268; p. 453.
- Berkowitz, Steven R., (now by judicial change of name Steven Ross Berke,) Brookline, Mass. Formwork-hanger for concrete building construction. No. 1,314,491; Aug. 26; v. 265; p. 584.
- Berlen, John, St. Louis, Mo. Steering-wheel lock for automobiles and the like. No. 1,318,842; Oct. 14; v. 267; p. 286.
- Berlin Mills Company. (See Hanson and Moore, assignors.)
- Berliner, Emile. (See Moore, Robert S., assignor.) (Re-issue.)
- Berlioz, Eugène S., Lyon, France, assignor to Societe "Aris," Lyon, France. Sparking-plug for explosion-motors. No. 1,318,529; Oct. 14; v. 267; p. 227.
- Berlitzheimer, David T. (See Josephs and Berlitzheimer.)
- Berman, Alexander S., Philadelphia, Pa. Man's shirt. No. 1,326,472; Dec. 30; v. 269; p. 770.
- Berman, Frank. (See Hanson, Carl T. P., assignor.)
- Berman, Gustave S., New York, N. Y. Emergency-umbrella. No. 1,325,072; Dec. 16; v. 269; p. 455.
- Berman, John E., Dilworth, Minn. Grain-separator. No. 1,294,030; Feb. 11; v. 259; p. 277.
- Berman, Theodore, Sioux City, Iowa. Light-support. No. 1,314,120; Aug. 26; v. 265; p. 513.
- Berna, Nick A., Racine, Wis. Valve. No. 1,315,079; Sept. 2; v. 266; p. 111.
- Bernard, David M., Jacksonville, Fla. Drawing and measuring instrument. No. 1,301,092; Apr. 22; v. 261; p. 638.
- Bernard, David M., Jacksonville, Fla. Combination drawing and measuring instrument. No. 1,307,076; June 17; v. 263; p. 409.
- Bernard, David M., Jacksonville, Fla. Combination drawing and measuring instrument. No. 1,307,233; June 17; v. 263; p. 437.
- Bernard, Harry I. (See Von Madaler and von der Lieth, assignors.)
- Bernard, Oscar C., El Paso, Tex. Projecting-machine. No. 1,318,255; Oct. 7; v. 267; p. 114.
- Bernard, Pierre J. H., Montreal, Quebec, Canada. Heater. No. 1,308,836; July 8; v. 264; p. 180.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand-tool. No. 1,300,330; Apr. 15; v. 261; p. 439.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand-tool. No. 1,305,513; June 3; v. 263; p. 53.
- Bernardi, Frank, Stockton, Calif. Air-valve attachment for disk wheels. No. 1,313,979; Aug. 26; v. 265; p. 486.
- Bernardi, Neri M., Florence, Italy. Screw-wrench in which no detrimental play can obtain. No. 1,313,575; Aug. 19; v. 265; p. 376.
- Bernay, Henri, assignor to Never-Dull Drill Co., San Francisco, Calif. Drill. No. 1,318,958; Oct. 14; v. 267; p. 309.
- Berndt, Otto N., assignor to Lindsay Light Company, Chicago, Ill. Recovering thorium from monazite sands. No. 1,323,735; Dec. 2; v. 269; p. 96.
- Berndt, Wilhelm, Howards Grove, Wis. Antiskid-chain for vehicle-wheels. No. 1,316,873; Sept. 23; v. 266; p. 514.



## Alphabetical list of patentees—Continued.

- Bernecker, George E., assignor, by mesne assignments, to Record Needle & Manufacturing Co., Milwaukee, Wis. Cutting device. No. 1,319,689; Oct. 28; v. 267; p. 496.
- Bernecker, George E., assignor, by mesne assignments, to Record Needle & Manufacturing Co., Milwaukee, Wis. Lighting attachment for sound-reproducing machines. No. 1,319,690; Oct. 28; v. 267; p. 496.
- Berner, Berger. (See Berner, Emil and B.)
- Berner, Emil and B., Calumet, Mich. Waste-retainer. No. 1,291,733; Jan. 21; v. 258; p. 463.
- Berner, Jesse S. (See Leich and Berner.)
- Bernet, John, assignor to H-R Manufacturing Company, Chicago, Ill. Transmission lever-lock. No. 1,311,744; July 29; v. 264; p. 819.
- Berney, Frank W. (See Hamilton and Berney.)
- Bernhard, Charles A., Chicago, Ill. Metallic kitchen-cabinet. No. 1,296,908; Mar. 11; v. 260; p. 283.
- Bernhard, Harry I. (See Kellogg, Charles S., assignor.)
- Bernhardt, Herman. (See MacFarland, Allison M., assignor.)
- Bernheim, Eugene C., assignor to Optical Specialty Manufacturing Company, Southbridge, Mass. Eyeglasses. No. 1,320,360; Oct. 28; v. 267; p. 622.
- Bernheim, Morris U., assignor to The Alvey-Ferguson Company, Cincinnati, Ohio. Conveyer. No. 1,300,331; Apr. 15; v. 261; p. 439.
- Bernheim, Morris U., assignor to The Alvey-Ferguson Company, Cincinnati, Ohio. Conveyer. No. 1,300,332; Apr. 15; v. 261; p. 440.
- Bernia, Louis, Montreal, Quebec, Canada. Stovepipe-coupling. No. 1,298,869; Apr. 1; v. 261; p. 58.
- Bernier, Charles E., Iroquois Falls, Ontario, Canada. Window-fastener. No. 1,295,415; Feb. 25; v. 259; p. 656.
- Bernier, Charles E., Iroquois Falls, Ontario, Canada. Lamp-extinguisher. No. 1,314,121; Aug. 26; v. 265; p. 513.
- Bernier, Ernest, Montreal, Quebec, Canada. Ticket-holder. No. 1,294,997; Feb. 18; v. 259; p. 537.
- Bernik, John F., Pittsburgh, Pa. Table. No. 1,325,390; Dec. 16; v. 269; p. 514.
- Berninghaus, Eugene, Cincinnati, Ohio. Chair. No. 1,307,108; June 17; v. 263; p. 415.
- Berninghaus, Eugene, Cincinnati, Ohio. Chair-arm structure. No. 1,326,165; Dec. 30; v. 269; p. 712.
- Berno, Joseph A., Mansfield, Ohio. Rug-displaying device. No. 1,320,442; Nov. 4; v. 268; p. 18.
- Bernson, Carl, Brockton, Mass. Garbage-can cover. No. 1,322,400; Nov. 18; v. 268; p. 499.
- Bernstein, Julius D., New York, N. Y. Non-sinkable life-boat. No. 1,295,843; Mar. 4; v. 260; p. 5.
- Berntsen, Bernt M., Brooklyn, N. Y. Screw-driver. No. 1,311,147; July 22; v. 264; p. 674.
- Bernwall, Arthur, and A. Pulkka, Chicago, Ill. Adjustable ball-bearing. No. 1,324,026; Dec. 9; v. 269; p. 195.
- Bernz, Otto. (See Phillips, George E., assignor.)
- Berrill, Thomas F., and J. E. Frey, Columbus, Ohio, assignors of one-fourth to C. J. McDermott, New York, N. Y. Packaging-receptacle. No. 1,317,541; Sept. 30; v. 266; p. 677.
- Berry, Arthur F., Ealing, England. Current-indicator. No. 1,305,514; June 3; v. 263; p. 54.
- Berry, Arthur F., London, England. Magnetic material suitable for use in static transformers and other electrical apparatus. No. 1,313,054; Aug. 12; v. 265; p. 261.
- Berry, Arthur F., London, England. Treatment of magnetic material. No. 1,320,309; Oct. 28; v. 267; p. 612.
- Berry, Arthur F., London, England, assignor to General Electric Company. Air-conditioning apparatus. No. 1,295,416; Feb. 25; v. 259; p. 656.
- Berry, Bernard H., Helena, Mont. Resilient wheel. No. 1,299,898; Apr. 8; v. 261; p. 320.
- Berry, Bernard H., Helena, Mont. Spool-holding cabinet. No. 1,323,241; Dec. 2; v. 269; p. 3.
- Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Rivetless chain. No. 1,326,171; Dec. 30; v. 269; p. 713.
- Berry, Edward F., New Orleans, La. Flexible pipe-coupling. No. 1,291,376; Jan. 14; v. 258; p. 348.
- Berry, Frederick E., Hayes, England. Electric furnace and transformer for use therewith. No. 1,299,664; Apr. 8; v. 261; p. 267.
- Berry, George W., Brooklyn, N. Y. Aircraft-inclinometer. No. 1,312,303; Aug. 5; v. 265; p. 83.
- Berry, George W., Rose Bay, near Sydney, assignor to The Wireless Hinge Manufacturing Company, Limited, Sydney, New South Wales, Australia. Apparatus for automatically forming and connecting hinge members on the lids and bodies of sheet-metal receptacles. No. 1,311,587; July 29; v. 264; p. 790.
- Berry, George W., Rose Bay, near Sydney, assignor to The Wireless Hinge Manufacturing Company, Limited, Sydney, New South Wales, Australia. Delivery means for sheet-metal presses. No. 1,311,588; July 29; v. 264; p. 790.
- Berry, George W., Rose Bay, assignor to The Wireless Hinge Manufacturing Company, Limited, Sydney, New South Wales, Australia. Hinging of sheet-metal receptacles. No. 1,317,420; Sept. 30; v. 266; p. 653.
- Berry, George W., Rose Bay, assignor to The Wireless Hinge Mfg. Company Ltd., Sydney, New South Wales, Australia. Hinging of sheet-metal receptacles. No. 1,317,421; Sept. 30; v. 266; p. 654.
- Berry, Lennah, Fairview, Mont. Animal-poke. No. 1,322,998; Nov. 25; v. 268; p. 663.
- Berry, Leroy A., Allston, Mass. Explosive shell. No. 1,300,333; Apr. 15; v. 261; p. 440.
- Berry, Louis H., Minneapolis, Minn. Automobile-jack. No. 1,303,240; May 13; v. 262; p. 173.
- Berry, Raleigh, Berclair, Miss. Self-extinguishing lamp. No. 1,291,377; Jan. 14; v. 258; p. 349.
- Berry, Robert C., assignor to E. C. Atkins & Company, Indianapolis, Ind. Band-saw tensometer. No. 1,323,818; Dec. 2; v. 269; p. 112.
- Berry, Titus E. (See Burtnett, Everett R., assignor.)
- Berry, William H., Chester, Pa. Pulverizing and separating machine. No. 1,292,686; Jan. 28; v. 258; p. 718.
- Berryman, Waldo B. (See Swanberg, Arthur W., assignor.)
- Bersley, Homer S., Coggon, Iowa. Railway-crossing signal. No. 1,307,998; June 24; v. 263; p. 611.
- Berson, Hyman, Brooklyn, N. Y. Paint set. No. 1,295,956; Mar. 4; v. 260; p. 31.
- Berst, Charles B., Erie, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,292,571; Jan. 28; v. 258; p. 690.
- Berst, Charles B., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator-brush. No. 1,300,229; Apr. 15; v. 261; p. 420.
- Bert, Albert J. (See Holliday, William M., assignor.)
- Berthel, Charles J., Akron, Ohio. Stabilizing device for use on aeroplanes. No. 1,309,452; July 8; v. 264; p. 295.
- Berthelot, Daniel, Paris, and H. J. F. Guilbaud, Meudon, France. Pump. No. 1,311,035; July 22; v. 264; p. 634.
- Berthelote, Joseph T., Havre, Mont. Bell-muffler. No. 1,295,261; Feb. 25; v. 259; p. 621.
- Berthelsen, Anders L., Chicago, Ill. Fabric-cutting device. No. 1,318,346; Oct. 14; v. 267; p. 191.
- Berthier, Pierre A., Milwaukee, Wis. Shock-absorber. No. 1,316,135; Sept. 16; v. 266; p. 327.
- Bertolini, Giuseppe, Chicago, Ill. Carbide-generator. No. 1,318,046; Oct. 7; v. 267; p. 73.
- Bertram, Henry W., Frankfort, Ind. Kitchen-cabinet. No. 1,305,248; June 3; v. 263; p. 4.
- Bertram, Herman, Halle-on-the-Saale, Germany. Machine for dividing and working dough. No. 1,303,454; May 13; v. 262; p. 211.
- Bertrand, Frederic E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-filling machine. No. 1,299,665; Apr. 8; v. 261; p. 267.
- Bertrand, Frederic J., San Francisco, Calif. Flower shears and stripper. No. 1,322,085; Nov. 18; v. 268; p. 439.
- Bertrand, Joseph P., Port Arthur, Ontario, Canada. Garden-tool. No. 1,309,177; July 8; v. 264; p. 244.
- Bertrand, Matthew, Butte, Mont. Self-laying submersible contact-mine. No. 1,290,054; Jan. 7; v. 258; p. 10.
- Bertrand, Rabb A., Pirmela, Tex. Windmill attachment. No. 1,325,616; Dec. 23; v. 269; p. 573.
- Bertrau, Louis F., Columbus, assignor to The Champion Kerosene-Burner Company, Kenton, Ohio. Hydrocarbon burner and furnace. No. 1,320,973; Nov. 4; v. 268; p. 116.
- Bertuleit, David, Portland, Ore. Electrically-heated puff-iron. No. 1,304,146; May 20; v. 262; p. 375.
- Berwick, John W., New York, N. Y., assignor to Rainbow Pictures Corporation. Moving pictures in colors. No. 1,321,705; Nov. 11; v. 268; p. 318.
- Besancon, Heinrich, Bienne, Switzerland. Razor. No. 1,326,635; Dec. 30; v. 269; p. 801.
- Besner, Harry M., and M. Trach, Minneapolis, Minn. Folding table and bench. No. 1,314,240; Aug. 26; v. 265; p. 536.
- Besnier, Paul, New Orleans, La. Liquid mordant for use in dyeing fabrics. No. 1,320,974; Nov. 4; v. 268; p. 116.
- Besocke, Richard, Chicago, Ill. Window-sash attachment. No. 1,314,241; Aug. 26; v. 265; p. 536.
- Besosa, Pedro J., New York, N. Y. Shutter-controlling mechanism for film-cameras. No. 1,308,617; July 1; v. 264; p. 111.
- Bessemmer Gas Engine Company. (See Shepherd, Harold F., assignor.)
- Besserlich, William A., Clintonville, Wis. Steering mechanism for four-wheel-drive vehicles. No. 1,297,962; Mar. 18; v. 260; p. 538.
- Besserlich, William A., Clintonville, Wis. Steering mechanism for vehicles. No. 1,297,963; Mar. 18; v. 260; p. 539.
- Bessey, Edward F., and W. H. Beiers, assignors to Howe Manufacturing Company, Chicago, Ill. Lamp-bracket. No. 1,299,899; Apr. 8; v. 261; p. 320.
- Bessler, Emil. (See Drexler and Bessler.)
- Bessler, Frank E., Akron, Ohio. Inner tube. No. 1,304,147; May 20; v. 262; p. 375.
- Bessler, Frank E., Akron, Ohio. Inner tube. No. 1,307,769; June 24; v. 263; p. 568.
- Bessler, Frank E., Akron, Ohio. Inner tube. No. 1,307,770; June 24; v. 263; p. 568.



- Bessler, Frank E., assignor to The Bessler Movable Stairway Co., Akron, Ohio. Panel-stairway. No. 1,309,314; July 8; v. 264; p. 270.
- Bessler Movable Stairway Co., The. (See Bessler, Frank E., assignor.)
- Bessolo, William L., San Diego, Calif. Shade for automobiles. No. 1,305,515; June 3; v. 263; p. 54.
- Bessolo, William L., San Diego, Calif. Quick-adjustable wrench. No. 1,312,471; Aug. 5; v. 265; p. 116.
- Bessolo, William L., San Diego, Calif. Pipe-wrench. No. 1,318,047; Oct. 7; v. 267; p. 74.
- Bessolo, William L., San Diego, Calif. Collapsible tower. No. 1,319,943; Oct. 28; v. 267; p. 544.
- Bessolo, William L., San Diego, Calif. Quick-adjustable wrench. No. 1,319,944; Oct. 28; v. 267; p. 545.
- Bessolo, William L., San Diego, Calif. Quick-adjustable wrench. No. 1,319,945; Oct. 28; v. 267; p. 545.
- Bessolo, William L., San Diego, Calif. Quick-adjustable wrench. No. 1,319,946; Oct. 28; v. 267; p. 545.
- Bessonnet, George C., Chicago, Ill. Music-holder. No. 1,313,055; Aug. 12; v. 265; p. 261.
- Best Brothers Keene's Cement Company, The. (See Best, John C., assignor.)
- Best Brothers Keene's Cement Company, The. (See Hoskins, William, assignor.)
- Best Electric Company. (See Kenney, John J., assignor.)
- Best Electric Company. (See Vetter, Clarence A., assignor.)
- Best, Ezra. (See Hansen, Frederick C., assignor.)
- Best, Frank. (See Drlica, Ferdinand, assignor.)
- Best, John A., Augusta, Ga. Visible and expandable card-index. No. 1,300,334; Apr. 15; v. 261; p. 440.
- Best, John A., Augusta, Ga. Card for indexing. No. 1,310,468; July 22; v. 264; p. 549.
- Best, John A., Augusta, Ga. Index-card. No. 1,311,207; July 29; v. 264; p. 719.
- Best, John C., assignor to The Best Brothers Keene's Cement Company, Medicine Lodge, Kans. Manufacture of Keene's cement. No. 1,304,148; May 20; v. 262; p. 376.
- Best, William J., Detroit, Mich. Hydrocarbon-burner. No. 1,299,108; Apr. 1; v. 261; p. 113.
- Best, William N., Brooklyn, N. Y. Swivel-joint. No. 1,300,109; Apr. 8; v. 261; p. 365.
- Bester, Harry E., Hagerstown, Md. Vibrator. No. 1,296,741; Mar. 11; v. 260; p. 244.
- Bester, Leonard, assignor to United States Oil Burner Corporation, New York, N. Y. Hydrocarbon-burner. No. 1,322,999; Nov. 25; v. 268; p. 663.
- Bestwall Manufacturing Company. (See Armstrong, Morgan K., assignor.)
- Bet, Maxim M., West Moose Jaw, Saskatchewan, Canada. Can-opener. No. 1,307,892; June 24; v. 263; p. 590.
- Bethel, Albert R., assignor to The Buck Glass Company, Baltimore, Md. Capping-head. No. 1,305,765; June 3; v. 263; p. 101.
- Bethenod, Joseph. (See Girardeau and Bethenod.)
- Bethenod, Joseph, Paris, France. Electrical-oscillation generator. No. 1,294,326; Feb. 11; v. 259; p. 346.
- Bethke, John P., assignor to Dings Magnetic Separator Co., Milwaukee, Wis. Lifting-magnet. No. 1,316,672; Sept. 23; v. 266; p. 478.
- Bethlehem Shipbuilding Corporation. (See Davis, Frank J., assignor.)
- Bethlehem Shipbuilding Corporation. (See Magill, Charles T., assignor.)
- Bethlehem Shipbuilding Corporation. (See Sullivan, Giles V., assignor.)
- Bethlehem Shipbuilding Corporation. (See Thomas, Harry J., assignor.)
- Bethlehem Steel Bridge Corporation. (See Hilpert, Meier G., assignor.)
- Bethlehem Steel Company. (See Lund, John, assignor.)
- Betty, Stanislaw, Philadelphia, Pa. Spittoon-cleaner. No. 1,321,279; Nov. 11; v. 268; p. 238.
- Bettenga, Creno P., Parkersburg, Iowa. Washing-machine. No. 1,326,636; Dec. 30; v. 269; p. 801.
- Bettenga, Creno P., Parkersburg, assignor of one-half to C. F. Parker, Waterloo, Iowa. Cistern-filter. No. 1,321,503; Nov. 11; v. 268; p. 280.
- Bettini, Gianni, Paris, France. Motion-picture-transposing apparatus. No. 1,298,282; Mar. 25; v. 260; p. 633.
- Betts, Anson G., Asheville, N. C. Production of alumina. No. 1,300,110; Apr. 8; v. 261; p. 366.
- Betts, Benjamin B., St. Louis, Mo. Railway-frog. No. 1,313,780; Aug. 19; v. 265; p. 414.
- Betts, Benjamin B., St. Louis, Mo. Railway-frog. No. 1,313,781; Aug. 19; v. 265; p. 414.
- Betts, Benjamin B., St. Louis, Mo. Railway-frog. No. 1,313,782; Aug. 19; v. 265; p. 414.
- Betts, Gilbert A., Topeka, Kans. Producing photo-engraving. No. 1,310,385; July 15; v. 264; p. 503.
- Betts, William H., assignor of one-half to F. Rought, St. Louis, Mo. Sole-protector. No. 1,310,050; July 15; v. 264; p. 442.
- Betz, Charles A., New York, N. Y. Toilet partition. No. 1,304,013; May 20; v. 262; p. 352.
- Betz, Harry D., Kansas City, Mo. Wireless and automatic railway safety system. No. 1,308,925; July 8; v. 264; p. 196.
- Beuckman, Frederick, and H. Bauer, Belleville, Ill. Stove. No. 1,307,433; June 24; v. 263; p. 507.
- Beudet, Maurice. (See Koetschet and Beudet.)
- Beugler, Edwin F., assignor to E. & B. Holmes Machinery Company, Buffalo, N. Y. Machine for cutting ends of barrel-shells and removing hoops therefrom. No. 1,294,758; Feb. 18; v. 259; p. 482.
- Beugler, Edwin F., assignor to E. & B. Holmes Machinery Company, Buffalo, N. Y. Band-saw stove-jointer. No. 1,305,053; May 27; v. 262; p. 587.
- Beugler, Edwin F., assignor to E. & B. Holmes Machinery Company, Buffalo, N. Y. Machine for removing hoops from barrels. No. 1,315,275; Sept. 9; v. 266; p. 157.
- Beurmann, Blanche E., Brighton, Mich. Bung attachment for washtubs. No. 1,311,745; July 29; v. 264; p. 819.
- Beutler, Henry, Drake, N. D. Quack-grass rooter. No. 1,314,122; Aug. 26; v. 265; p. 513.
- Bever, Charles A., Kopia, Wash. Stovepipe. No. 1,315,904; Sept. 9; v. 266; p. 270.
- Beveridge, James, Chatham, New Brunswick, Canada. Treating niter cake. No. 1,315,811; Sept. 9; v. 266; p. 252.
- Bevier, Henry R., assignor to Johnson Automatic Sealer Co., Battle Creek, Mich. Sealing-machine. No. 1,306,573; June 10; v. 263; p. 283.
- Bevier, Philip H., Brooklyn, N. Y. Reinforced floor construction. No. 1,316,136; Sept. 16; v. 266; p. 327.
- Bevin Brothers Manufacturing Company. (See Moard, Eric, assignor.)
- Bevington, Charles C., assignor of one-half to F. L. Traggesser, Akron, Ohio. Collapsible receptacle. No. 1,296,742; Mar. 11; v. 260; p. 245.
- Bevins, Elisha M. (See Cough, Adoniram B., assignor.)
- Bewan, James O., Onley, Va. Portable acetylene-gas generator. No. 1,304,251; May 20; v. 262; p. 395.
- Bewan, James O., Onley, Va. Friction igniting device. No. 1,322,401; Nov. 18; v. 268; p. 500.
- Bewley, Claude G., Spokane, Wash. Food-cooler. No. 1,293,005; Feb. 4; v. 259; p. 8.
- Bewley, Claude G., Spokane, Wash., assignor to Spokane Concrete Flower Pot Machine Co., Inc. Feeding mechanism. No. 1,298,647; Apr. 1; v. 261; p. 6.
- Bewley, William E., et al. (See Moore, William J., assignor.)
- Bey, George, Jersey City, N. J. Combined motor and pump. No. 1,296,356; Mar. 4; v. 260; p. 122.
- Bey, George, Newark, N. J. Cue. No. 1,324,789; Dec. 16; v. 269; p. 403.
- Beyer, Daniel A., Houston, assignor of one-half to A. M. Chambers, Harris county, Tex. Footboard-brace for vehicles. No. 1,298,160; Mar. 25; v. 260; p. 606.
- Beyer, Max W., Edgewater, N. J. Camera attachment. No. 1,312,674; Aug. 12; v. 265; p. 186.
- Beyer, Max W., Edgewater, N. J. Stereoscopic attachment for cameras. No. 1,312,675; Aug. 12; v. 265; p. 186.
- Beyer, Thomas. (See Becker-Jurgen and Beyer.)
- Beyer, Walter F. J. (See Brush and Beyer.)
- Beyerle, Gottlob W., Denver, Colo. Olive-pitter. No. 1,311,589; July 29; v. 264; p. 790.
- Beyland, Sidney A., North Ridgeville, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,298,441; Mar. 25; v. 260; p. 666.
- Beyland, Sidney A., assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,301,363; Apr. 22; v. 261; p. 693.
- Biagini, Ray. (See Prati and Biagini.)
- Bianchi, Attilio, and J. Occhipinti, New York, N. Y. Machine for affixing fabric coverings. No. 1,302,288; Apr. 29; v. 261; p. 898.
- Bianchini, Leone L., assignor to Societa Italiana di Elettrochimica, Rome, Italy. Compressing chlorine and other gases. No. 1,313,160; Aug. 12; v. 265; p. 281.
- Biasucci, Pietro, Yukon, Pa. Window-shade. No. 1,324,421; Dec. 9; v. 269; p. 271.
- Bibb, George F., Troy, N. Y. Combined fuel and air valve. No. 1,299,900; Apr. 8; v. 261; p. 320.
- Bibb, William E., Sallisaw, Okla. Canner and evaporator. No. 1,304,014; May 20; v. 262; p. 352.
- Bibby, James, London, England. Electric furnace. No. 1,308,273; July 1; v. 264; p. 49.
- Bibby, James, London, England. Electric transformer especially suitable for use in connection with electric furnaces. No. 1,315,359; Sept. 9; v. 266; p. 172.
- Bickel, Benjamin F., Alameda, Calif. Plastic composition. No. 1,317,680; Oct. 7; v. 267; p. 4.
- Bickel, John E., Philadelphia, Pa. Surf-motor. No. 1,307,893; June 24; v. 263; p. 590.
- Bickel, Thomas J., Jasonville, Ind. Receptacle-support. No. 1,292,421; Jan. 28; v. 258; p. 653.
- Bicker, Edgar B., St. Louis, Mo. Display-clip. No. 1,296,584; Mar. 4; v. 260; p. 172.
- Bickett, Charles A., Cincinnati, Ohio. Machine-tool. No. 1,312,297; Aug. 5; v. 265; p. 82.
- Bickley, John H., Reading, assignor to W. H. Wood, Media, Pa. Apparatus for forming sheet metal. No. 1,306,166; June 10; v. 263; p. 206.
- Bickley, Ross M. (See Patterson and Bickley.)



## Alphabetical list of patentees—Continued.

- Bickley, Ross M., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Apparatus for handling coal. No. 1,324,491; Dec. 9; v. 269; p. 285.
- Bicknell, Alvie B., Indianapolis, Ind. Hot-water heater. No. 1,296,909; Mar. 11; v. 260; p. 283.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,300,556; Apr. 15; v. 261; p. 488.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,300,557; Apr. 15; v. 261; p. 488.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,300,558; Apr. 15; v. 261; p. 488.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,300,559; Apr. 15; v. 261; p. 489.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,300,560; Apr. 15; v. 261; p. 489.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,324,372; Dec. 9; v. 269; p. 261.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,324,373; Dec. 9; v. 269; p. 262.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,324,374; Dec. 9; v. 269; p. 262.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,324,375; Dec. 9; v. 269; p. 262.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,324,376; Dec. 9; v. 269; p. 262.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,324,377; Dec. 9; v. 269; p. 262.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,324,378; Dec. 9; v. 269; p. 263.
- Bicknell, George M., Detroit, Mich., and H. H. C. Weed, assignors to The Carter Carburetor Company, St. Louis, Mo. Floating bearing. No. 1,324,379; Dec. 9; v. 269; p. 263.
- Biddison, Pascal M. (See Burke, Boyd, Biddison, and Zink.)
- Biddle, Eugene S., Muncy, Pa. Automatic controlling appliance for railway-trains. No. 1,297,783; Mar. 18; v. 260; p. 501.
- Biddle, Walter H., Eastbourne, England. Automatic train-control apparatus. No. 1,303,631; May 13; v. 262; p. 243.
- Biddle, Walter H., London, England. Railway and similar signal. No. 1,322,402; Nov. 18; v. 268; p. 500.
- Biddle, William R., Cincinnati, Ohio. Transfer-ticket. No. 1,302,758; May 6; v. 262; p. 52.
- Bidelman, William P., Los Angeles, Calif. Reinforced joint for carbon electrodes. No. 1,304,444; May 20; v. 262; p. 434.
- Bidonde, Gratien, New York, N. Y. Hydrocycle. No. 1,322,403; Nov. 18; v. 268; p. 500.
- Bidou, Gabriel A. M. V., assignor to La Société d'Appareillage Medical, Grenoble, France. Artificial limb. No. 1,316,347; Sept. 16; v. 266; p. 367.
- Bidwell, Alfred M., Jersey City, N. J. Mattress basin-drain. No. 1,295,844; Mar. 4; v. 260; p. 6.
- Bieber, Hyman, Liverpool, England. Flash-light. No. 1,308,740; June 17; v. 263; p. 347.
- Biedma, Carlos M., Buenos Aires, Argentina. Laboratory-table. No. 1,314,943; Sept. 2; v. 266; p. 86.
- Biehler, Joseph G. (See Knopp and Biehler.)
- Bieker, Anthony H., Allan, Saskatchewan, Canada. Combined air-valve and filler-plug. No. 1,319,136; Oct. 21; v. 267; p. 367.
- Bielawski, Alexander, Bayonne, N. J. Life-saving boat. No. 1,295,681; Feb. 25; v. 259; p. 718.
- Bien, John M. (See Liedtke and Bien.)
- Bierbach, Carl F., assignor to one-half to O. Gileve, Rochester, N. Y. Egg-cup. No. 1,310,112; July 15; v. 264; p. 453.
- Bierbauer, Carl F., Kenville, and L. S. Finch, Dover, N. J., assignors to Hercules Powder Company, Wilmington, Del. Producing ammonia from alkali cyanid. No. 1,295,262; Feb. 25; v. 259; p. 621.
- Bierce, Edward B. (See Humason, Granville A., assignor.)
- Bierer, John M., assignor to Boston Woven Hose & Rubber Co., Boston, Mass. Rubber composition and making the same. No. 1,303,759; May 13; v. 262; p. 267.
- Biermann, William F., Wisner, Nebr. Check-row anchor. No. 1,306,045; June 10; v. 263; p. 184.
- Biersach, Eugene, Milwaukee, Wis. Anchor for flashings. No. 1,318,347; Oct. 14; v. 267; p. 191.
- Biertuempfel, Fred E., Newark, N. J. Game. No. 1,319,372; Oct. 21; v. 267; p. 413.
- Biffi, Egisto, Lecco, Italy. Percussion-fuse for projectiles. No. 1,322,521; Nov. 25; v. 268; p. 573.
- Bigelow, Charles A. (See Wollenberg and Bigelow.)
- Bigelow, David E., Visalia, Calif. Hydroplane-boat. No. 1,316,762; Sept. 23; v. 266; p. 494.
- Bigelow, George A., Portland, Ore. Lock for automobiles or power-driven vehicles. No. 1,298,283; Mar. 25; v. 260; p. 633.
- Bigelow, Henry J., Brookline, Mass. Fork. No. 1,294,031; Feb. 11; v. 259; p. 277.
- Bigelow, Jonathan C. (See Jessen, Hans H., assignor.)
- Bigelow, Opher L., et al. (See Bauer, Ott V., assignor.)
- Biggs, Benjamin, Seattle, Wash. Form for concrete silo construction. No. 1,301,364; Apr. 22; v. 261; p. 693.
- Biggs, Franklin H., assignor to The Woolson Spice Company, Toledo, Ohio. Can-handling mechanism. No. 1,290,055; Jan. 7; v. 258; p. 10.
- Biggs, John, Fort Lauderdale, Fla. Tire-support. No. 1,292,687; Jan. 28; v. 258; p. 719.
- Biggs, Joseph F., Richmond, Va. Cabinet for phonograph-records. No. 1,325,617; Dec. 23; v. 269; p. 573.
- Biggs, O. W. (See Kinzbach, Frank, assignor.)
- Biggs-Watterson Co., The. (See Wertman, Milton A., assignor.)
- Biggs, William J., Phoenix, Ariz. Lock for valves. No. 1,316,412; Sept. 16; v. 266; p. 379.
- Bigham, Richard C., Spokane, Wash. Repair-boot. No. 1,303,154; May 6; v. 262; p. 129.
- Bigham, Thomas J., Kansas City, Mo. Curtain-pole. No. 1,308,217; July 1; v. 264; p. 39.
- Bigos, Andrzej, Lorain, Ohio. Shoe-clasp. No. 1,296,157; Mar. 4; v. 260; p. 79.
- Bijou Button Co. (See Cohn, Ovadio, assignor.)
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electrical system for motor-vehicles. No. 1,298,442; Mar. 25; v. 260; p. 666.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine starting device. No. 1,304,252; May 20; v. 262; p. 396.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electric regulator. No. 1,304,522; May 20; v. 262; p. 449.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Lighting system. No. 1,304,934; May 27; v. 262; p. 563.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electrical apparatus. No. 1,304,935; May 27; v. 262; p. 564.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine starting apparatus. No. 1,307,177; June 17; v. 263; p. 426.
- Bijur, Joseph, New York, N. Y., assignor to Bijur Motor Appliance Company. Engine starting apparatus. No. 1,307,178; June 17; v. 263; p. 427.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electrical apparatus. No. 1,308,155; July 1; v. 264; p. 28.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine starting device. No. 1,311,854; July 29; v. 264; p. 839.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Automobile machinery. No. 1,316,998; Sept. 23; v. 266; p. 537.
- Bijur, Joseph, assignor to The Safety Car Heating and Lighting Co., New York, N. Y. Electrical system. No. 1,317,476; Sept. 30; v. 266; p. 664.
- Bijur, Joseph, New York, N. Y., assignor to The Safety Car Heating and Lighting Company. Railway lighting apparatus. No. 1,308,274; July 1; v. 264; p. 49.
- Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)
- Bijur Motor Appliance Company. (See Wolffsohn, Lionel, assignor.)
- Bijur Motor Appliance Company. (See Wolffsohn, Lionel M., assignor.)
- Bilbrough, Charles, Toronto, Ontario, Canada. Link-book. No. 1,320,828; Nov. 4; v. 268; p. 88.
- Bilek, William S., Franklin, Kans. Drill connection. No. 1,312,298; Aug. 5; v. 265; p. 82.
- Bilger, George R. (See Grove, McCurry, and Bilger.)
- Billinghurst, Charles B., Pierre, S. D. Device for neutralizing shock. No. 1,302,759; May 6; v. 262; p. 52.
- Billings, Casper A. (See Billings, Nelson O., assignor.)
- Billings, Frank. (See Greenleaf, Robert P., assignor.)
- Billings, Frank, Cleveland, Ohio. Loading and conveying apparatus. No. 1,300,111; Apr. 8; v. 261; p. 366.
- Billings, Frank, Cleveland, Ohio. Loading-machine. No. 1,322,475; Nov. 18; v. 268; p. 514.
- Billings, Frank, and R. P. Greenleaf, Cleveland, Ohio; said Greenleaf assignor to said Billings. Loading-machine. No. 1,322,476; Nov. 18; v. 268; p. 514.



- Billings, Frank, and R. P. Greenleaf, Cleveland, Ohio; said Greenleaf assignor to said Billings. Loading-machine. No. 1,322,477; Nov. 18; v. 268; p. 514.
- Billings, Frank, and R. P. Greenleaf, Cleveland, Ohio; said Greenleaf assignor to said Billings. Loading-machine. No. 1,322,478; Nov. 18; v. 268; p. 514.
- Billings, John W., Union, Iowa. Automatic intermittent projecting-machine. No. 1,321,003; Nov. 4; v. 268; p. 122.
- Billings, Nelson O., Eugene, assignor of one-half to C. A. Billings, Astoria, Oreg. Door-lock. No. 1,305,959; June 3; v. 263; p. 138.
- Billings, Thomas R., Bieber, Calif. Charge-preheater. No. 1,301,999; Apr. 29; v. 261; p. 845.
- Billings, William W., Cleveland, Ohio. Self-winding spring-motor. No. 1,315,459; Sept. 9; v. 266; p. 190.
- Billingsley, Oliver, assignor of one-half to A. Perryman, Frederick, Okla. Plow. No. 1,321,083; Nov. 11; v. 268; p. 200.
- Billington, Arthur G., Rye, N. Y. Flag-holder. No. 1,312,947; Aug. 12; v. 265; p. 239.
- Billington, Arthur R., Chicago, Ill., assignor, by mesne assignments, to E. Frankel. Interlacing curled horse-hair. No. 1,314,565; Sept. 2; v. 266; p. 17.
- Billington Company. (See Billington, Theophilus, assignor.)
- Billington, Theophilus, assignor to Billington Company, Los Angeles, Calif. Soil-breaker. No. 1,321,004; Nov. 4; v. 268; p. 122.
- Billman, Obed C. (See Troxel, Harvey H., assignor.)
- Billner, Karl P., Malmö, Sweden. Ferroconcrete floor construction. No. 1,307,179; June 17; v. 263; p. 427.
- Billon, Frédéric, Solothurn, Switzerland. Elastic coupling for eccentric-shafts. No. 1,316,673; Sept. 23; v. 266; p. 478.
- Billow, Newton K., Columbus, Ohio. Pillow-tick. No. 1,321,084; Nov. 11; v. 268; p. 200.
- Billson, Edward F. (See Lippincott and Billson.)
- Billy, Joseph F., Detroit, Mich. Composition of matter for manufacturing toys. No. 1,292,688; Jan. 28; v. 258; p. 719.
- Billy, Peter, assignor of one-half to F. Luzanski, Auburn, N. Y. Hair-cutting scissors. No. 1,294,998; Feb. 18; v. 259; p. 537.
- Bilton Machine Tool Company, The. (See Hoagland, Frank O., assignor.)
- Bimeler, Peter, Zoar, and E. T. Dieringer, Bolivar, Ohio. Wind-shield-cleaning device. No. 1,313,576; Aug. 19; v. 265; p. 376.
- Bimler, John A., Michigan, N. D. Farm-gate. No. 1,315,008; Sept. 2; v. 266; p. 98.
- Binche, Georges, Angoulême, C. Dupuis, Ivry, and H. Prignol, Lyon, France. Two-stroke-cycle explosion-motor. No. 1,317,067; Sept. 23; v. 266; p. 550.
- Binder, John, and E. Alberti, New York, assignors to International Cork Company, Brooklyn, N. Y. Cork-feeding mechanism. No. 1,296,743; Mar. 11; v. 260; p. 245.
- Binder, Louis, Newark, N. J. Box. No. 1,315,593; Sept. 9; v. 266; p. 214.
- Binder, William H., San Luis Obispo, Calif. Spreader. No. 1,299,666; Apr. 8; v. 261; p. 268.
- Bindley, Albion, North Charleroi, assignor to Pittsburgh Steel Products Company, Pittsburgh, Pa. Oil-can. No. 1,302,289; Apr. 29; v. 261; p. 898.
- Bingham, Charles A., Reading, Pa. Locomotive-shop equipment. No. 1,319,833; Oct. 28; v. 267; p. 524.
- Bingham, Charles H., London, England. Blast-furnace. No. 1,303,155; May 6; v. 262; p. 129.
- Bingham, Eugene H., San Francisco, Calif. Rotary engine. No. 1,319,456; Oct. 21; v. 267; p. 429.
- Bingham, George C., Heybridge, Maldon, England, assignor of one-half to E. E. Bensall, Maldon, England. Plow. No. 1,301,365; Apr. 22; v. 261; p. 694.
- Bingham, George W., Jersey City, N. J., assignor to The Widescope Camera Co. Moving-picture camera. No. 1,318,348; Oct. 14; v. 267; p. 192.
- Bingham, Henry C., assignor to Huntington, Heberlein and Company, Limited, London, England. Rotary furnace for roasting blende, pyrites, or other minerals. No. 1,322,223; Nov. 18; v. 268; p. 465.
- Bingham, Jeremiah, assignor to The Beck Bearing Company, Toledo, Ohio. Feed mechanism. No. 1,311,590; July 29; v. 264; p. 790.
- Bingham, Thomas E., Manchester, England, and E. D. Parker, assignors to Barber-Colman Company, Rockford, Ill. Machine for operating upon warps. No. 1,306,097; June 10; v. 263; p. 193.
- Binghamton Washing Machine Co., The. (See Wearne, Richard L., assignor.)
- Bingle, Edmund W. (See Oldfield, Albert, assignor.)
- Binkowitz, Julius H., Chicago, Ill. Mailing device. No. 1,324,100; Dec. 9; v. 269; p. 209.
- Binks, Harold, Eccles, England. Carbureter for internal-combustion engines. No. 1,309,178; July 8; v. 264; p. 244.
- Binks, Harry D., River Forest, Ill. Spray-nozzle. No. 1,310,687; July 22; v. 264; p. 590.
- Binks, Harry D., River Forest, Ill. Spray-nozzle. No. 1,324,579; Dec. 9; v. 269; p. 302.
- Binney, Eric A., Washington, D. C. Alternating-current motor. No. 1,321,590; Nov. 11; v. 268; p. 296.
- Bintliff, Fred S., Minneapolis, Minn. Game-carrying bag. No. 1,290,056; Jan. 7; v. 258; p. 10.
- Bintliff, Fred S., Minneapolis, Minn. Knockdown casket-holding burial-box. No. 1,290,057; Jan. 7; v. 258; p. 10.
- Biondi, Alex G., Los Angeles, Cal. Safety device for mines. No. 1,292,236; Jan. 21; v. 258; p. 590.
- Birault, Camille, Paris, France. Sighting instrument for aviation purposes. No. 1,298,648; Apr. 1; v. 261; p. 6.
- Birch, Clarence E., Lawrence, Kans. Ink-well and cover therefor. No. 1,305,869; June 3; v. 263; p. 121.
- Birch, Gustaf B. (See Cameron and Birch.)
- Birch, Gustaf B., assignor to Cameron Machine Company, Brooklyn, N. Y. Collapsible mandrel. No. 1,315,177; Sept. 2; v. 266; p. 129.
- Birch, James S., Chicago, Ill. Concrete-work fastener. No. 1,311,036; July 22; v. 264; p. 634.
- Birch, Sydney, Newton, Mass. Cloth guiding and feeding apparatus. No. 1,297,064; Mar. 11; v. 260; p. 318.
- Birchland, Fredrick, and J. Kear, Brooklyn, N. Y. Machine for cutting angular holes in material. No. 1,321,881; Nov. 18; v. 268; p. 402.
- Bird, Charles S., East Walpole, Mass., assignor to Bird Machine Company. Rotary screen for paper-stock. No. 1,304,253; May 20; v. 262; p. 396.
- Bird, Charles W. (See Schroeder and Bird.)
- Bird, David B., Chicago, Ill. Powder-gun. No. 1,301,366; Apr. 22; v. 261; p. 694.
- Bird, Emerson B., Seattle, Wash. Apparatus for raising automobiles. No. 1,291,734; Jan. 21; v. 258; p. 464.
- Bird, Frank G., Springfield, Mass. Conveyor mechanism for bread and the like. No. 1,321,784; Nov. 11; v. 268; p. 333.
- Bird, Harrison, and F. J. Maeurer, Chicago, Ill., assignors to Davis-Bournonville Company, New York, N. Y. Gas cutting apparatus. No. 1,291,735; Jan. 21; v. 258; p. 464.
- Bird, John M., Fort Worth, Tex. Boring-bar. No. 1,291,736; Jan. 21; v. 258; p. 464.
- Bird Machine Company. (See Bird, Charles S., assignor.)
- Bird, Milton W., Wenatchee, Wash. Door-knob. No. 1,308,325; July 1; v. 264; p. 58.
- Bird, Reginald W. (See Clapp, Albert L., assignor.)
- Bird, Thomas F., Wilkes-Barre, Pa. Pick. No. 1,297,065; Mar. 11; v. 260; p. 318.
- Bird-Wilcox Co. (See Wilcox, Philip W., assignor.)
- Bird, William, Vauport, Pa. Demountable tire-rim. No. 1,291,378; Jan. 14; v. 258; p. 349.
- Bird, William W., and L. W. Rawson, Worcester, Mass. Variable-speed device. No. 1,324,952; Dec. 16; v. 269; p. 432.
- Birdsall, Wilfred T., Montclair, N. J., assignor to Westinghouse Lamp Company. Thermionic converter. No. 1,291,379; Jan. 14; v. 258; p. 349.
- Birdsall, James E., Philadelphia, Pa., assignor, by mesne assignments, to D. Campbell, Brooklyn, N. Y. Card-displaying device. No. 1,322,175; Nov. 18; v. 268; p. 456.
- Birdsall, Wilfred T., Montclair, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Exhausting. No. 1,318,832; Oct. 14; v. 267; p. 284.
- Birdsall, Wilfred T., Montclair, N. J., assignor to Westinghouse Electric and Manufacturing Company. Seal. No. 1,320,114; Oct. 28; v. 267; p. 576.
- Birdsey, Charles R. (See Nies and Birdsey.)
- Birkenbeuel, Edward B. (See Evans and Birkenbeuel.)
- Birkenbeuel, Julia H., Portland, Oreg. Vulcanizing-press mold. No. 1,311,375; July 29; v. 264; p. 751.
- Birkenmaier, Theodore, St. Louis, Mo. Controlling mechanism for laundry-machines. No. 1,312,431; Aug. 5; v. 265; p. 109.
- Birket, William E., Peoria, Ill. Automatic sound-reproducing machine. No. 1,320,035; Oct. 28; v. 267; p. 562.
- Birkigt, Marc, Bois-Colombes, France. Motor-vehicle. No. 1,312,383; Aug. 5; v. 265; p. 99.
- Birkigt, Marc, Bois-Colombes, France. Combined gun and engine for aerial machines. No. 1,319,510; Oct. 21; v. 267; p. 439.
- Birks, Lawrence, and J. R. Templin, Fendalton, Christchurch, New Zealand. System and means for differentially metering electricity for lighting and heating purposes. No. 1,298,649; Apr. 1; v. 261; p. 6.
- Birmingham and Midland Counties Transport Company, The. (See Ralls, George E. D., assignor.)
- Birnbaum, Samuel, New York, N. Y. Envelop-moistener. No. 1,297,784; Mar. 18; v. 260; p. 502.
- Birney, Charles O. (See Rosenbury, Joseph M., assignor.)
- Birnstock, William W., assignor to Hensch & Dromgold Company, York, Pa. Bottle-crate. No. 1,324,580; Dec. 9; v. 269; p. 302.
- Birrell, Daniel S., and G. Smith, Warrington, England. Weaving crimped or wire-mesh work material. No. 1,311,746; July 29; v. 264; p. 819.
- Birrell, Joseph D., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Contact member. No. 1,323,242; Dec. 2; v. 269; p. 4.
- Birsan, Morris, New York, N. Y. Magazine powder-puff. No. 1,318,256; Oct. 7; v. 267; p. 115.



## Alphabetical list of patentees—Continued.

- Birth, Charles, Kingston borough, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,318,641; Oct. 14; v. 267; p. 248.
- Biscayart, Jules D., Atlanta, Ga. Cotter-pin remover. No. 1,297,785; Mar. 18; v. 260; p. 502.
- Bischoff, John, *et al.* (See Zsarnay, Béla, assignor.)
- Bischoff, John C. (See Poppink, Jan H., assignor.)
- Bisconer, Raymond. (See Mathis, William R., assignor.)
- Bish, John A., Showers, Pa. Mine-car coupling. No. 1,326,839; Dec. 30; v. 269; p. 839.
- Bishop, Arthur O., Pottsville, Pa. Street-sweeper. No. 1,307,180; June 17; v. 263; p. 427.
- Bishop, Arthur P., *et al.* (See Bishop, Peter A., assignor.)
- Bishop-Babcock-Becker Company, The. (See Bonnet, Charles E., assignor.)
- Bishop-Babcock-Becker Company, The. (See Prince, William B., assignor.)
- Bishop-Babcock-Becker Company, The. (See Weatherhead, Charles H., assignor.)
- Bishop Company, Inc., The. (See Bishop, Frederick R., assignor.)
- Bishop, David N., Towanda, Kans. Buckle. No. 1,293,673; Feb. 11; v. 259; p. 193.
- Bishop, Frederic L., Pittsburgh, Pa. Electric heating apparatus. No. 1,321,504; Nov. 11; v. 268; p. 280.
- Bishop, Frederick R., assignor to The Bishop Company, Inc., North Attleboro, Mass. Eyeglass-mounting. No. 1,310,273; July 15; v. 264; p. 483.
- Bishop, George E., Cleveland, Ohio. Automobile-curtain. No. 1,323,439; Dec. 2; v. 269; p. 41.
- Bishop, George E., Cleveland, Ohio. Eyelet for fasteners. No. 1,326,637; Dec. 30; v. 269; p. 801.
- Bishop, Mary F., Boston, Mass. Apple-corer. No. 1,317,263; Sept. 30; v. 266; p. 624.
- Bishop, Peter A., assignor of one-half to himself and one-half to A. P. Bishop, Fall River, Mass. Bobbin-holder and thread-tension device. No. 1,324,637; Dec. 9; v. 269; p. 313.
- Bishop, Thomas H. (See Drake and Bishop.)
- Bissell, Carl H., and H. P. Hastings, assignors to Crouse-Hinds Company, Syracuse, N. Y. Meter-testing connection. No. 1,300,690; Apr. 15; v. 261; p. 515.
- Bissell, Carl H., and E. G. Smith, assignors to Crouse-Hinds Company, Syracuse, N. Y. Electric-conduit fitting. No. 1,311,376; July 29; v. 264; p. 751.
- Bissell Carpet Sweeper Co. (See Bouwmeester, Bernard J., assignor.)
- Bissell Carpet Sweeper Co. (See Owen and Bouwmeester, assignors.)
- Bissell Carpet Sweeper Company. (See Mason, Francis C., assignor.)
- Bituminized Road Company. (See Black and Popkess, assignors.)
- Bituminized Road Company. (See Popkess, Michael A., assignor.)
- Bitz, John H., Mount Pleasant township, Westmoreland county, Pa. Shot-hole scraper and tamper. No. 1,302,127; Apr. 29; v. 261; p. 868.
- Bixby, Joseph G., Lincoln, Ill. Supporting element for flags. No. 1,294,032; Feb. 11; v. 259; p. 278.
- Bixby, Leo A., Kalamazoo, Mich. Wheel and tire carrier. No. 1,307,171; June 17; v. 263; p. 427.
- Bixon, Frederick C., Buffalo, N. Y. Closure for toy banks and the like. No. 1,322,522; Nov. 25; v. 268; p. 574.
- Bizet, John, New York, N. Y. Combination ash-sifter and coal-bin. No. 1,323,000; Nov. 25; v. 268; p. 663.
- Bizette, Arthur F., assignor of one-half to E. W. Singletary, Morazan, La. Onion-cutter. No. 1,294,033; Feb. 11; v. 259; p. 278.
- Bizzell, Robert M. (See Bean and Bizzell.)
- Bjerkass, Arnold, Long Prairie, Minn. Short-turning gear. No. 1,298,650; Apr. 1; v. 261; p. 6.
- Blonerud, Earl S., Calmar, Iowa. Letter-opener. No. 1,308,218; July 1; v. 264; p. 39.
- Bjorge, Christen E. and E. E., Detroit, Mich. Cockroach-trap. No. 1,314,242; Aug. 26; v. 265; p. 536.
- Bjorge, Edward E. (See Bjorge, Christen E. and E. E.)
- Bjorkholm, Jacob H., and Nils Ness, Astoria, Oreg. Electrically-heated shaving-cup. No. 1,319,559; Oct. 21; v. 267; p. 449.
- Bjorklund, Gustav. (See Schwarz and Bjorklund.)
- Bjornlie, Julius, Watertown, S. D., assignor of one-half to T. Bjornlie, Madison, Minn. Tire-tool. No. 1,305,337; June 3; v. 263; p. 20.
- Bjornlie, Thorwald. (See Bjornlie, Julius, assignor.)
- Bjornstad, Martin. (See Johnson and Bjornstad.)
- Bjurstrom, John, St. Paul, Minn. Retreading-mold. No. 1,318,530; Oct. 14; v. 267; p. 227.
- Blache, Hans H., Hellerup, near Copenhagen, Denmark. Fuel-oil tank in twin-screw motor-ships. No. 1,319,947; Oct. 28; v. 267; p. 545.
- Black, Albert F., Sandusky, Mich. Cow-tail holder. No. 1,296,258; Mar. 4; v. 260; p. 101.
- Black, Benjamin, and Albert Cook, Brooklyn, N. Y. Bicycle-pump. No. 1,319,137; Oct. 21; v. 267; p. 368.
- Black, Byard, Mountain township, Ontario, Canada. Brace-saw. No. 1,316,556; Sept. 23; v. 266; p. 455.
- Black, Charles F., assignor of one-half to D. P. Clark, Dayton, Ohio. Toy. No. 1,319,040; Oct. 21; v. 267; p. 350.
- Black, Clarence J., North Little Rock, Ark. Light-shade. No. 1,293,674; Feb. 11; v. 259; p. 193.
- Black, Douglas E., Sumner, Wash. Mole-trap. No. 1,299,109; Apr. 1; v. 261; p. 113.
- Black, Edward S., assignor to American Manganese Steel Company, Chicago, Ill. Mill-plunon. No. 1,309,837; July 15; v. 264; p. 403.
- Black, George H., Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,301,032; Apr. 15; v. 261; p. 589.
- Black, George H., Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-shoe and making same. No. 1,301,084; Apr. 15; v. 261; p. 602.
- Black, Harvey B., Bogota, N. J. Internal-combustion engine. No. 1,322,523; Nov. 25; v. 268; p. 574.
- Black, Horatio A., Topeka, Kans. Dental filling and making same. No. 1,294,355; Feb. 11; v. 259; p. 352.
- Black, James E., and M. A. Popkess, assignors to Bituminized Road Company, Kansas City, Mo. Making paving compositions and products thereof. No. 1,320,672; Nov. 4; v. 268; p. 58.
- Black, James L., Alexandria, Minn. Internal-combustion engine. No. 1,308,326; July 1; v. 264; p. 58.
- Black, James O. (See Muse, James, assignor.)
- Black, John, Jr. (See Moore, Black, and Crosby.)
- Black, John B., Kuttawa, Ky. Insect-exterminator. No. 1,326,320; Dec. 30; v. 269; p. 741.
- Black, John L. (See Sperckas, John N., assignor.)
- Black, John L., assignor to O. P. Tucker, Valdosta, Ga. Fuel-saving device. No. 1,309,114; July 8; v. 264; p. 233.
- Black, John S., Clayton, Mo. Pneumatic-tube system. No. 1,316,077; Sept. 16; v. 266; p. 316.
- Black, Robert C., Dunnellon, Fla. Toy gun. No. 1,314,459; Aug. 26; v. 265; p. 578.
- Black, Robert C., and L. A. Maiden, Dunnellon, Fla. Garden-tool. No. 1,302,290; Apr. 29; v. 261; p. 899.
- Black, Roy H., Tulsa, Okla. Pipe-insulation form and case. No. 1,320,975; Nov. 4; v. 268; p. 116.
- Black, Roy H., Tulsa, Okla. Paste-discharging press. No. 1,320,976; Nov. 4; v. 268; p. 116.
- Black, Thomas C., Greenwood, Miss. Gin-saw-gumming machine. No. 1,293,007; Feb. 4; v. 259; p. 9.
- Blackburn Aeroplane and Motor Company. (See Souttanian, Vahé, assignor.)
- Blackburn, Bruce, Los Angeles, Calif. Screened window. No. 1,303,455; May 13; v. 262; p. 211.
- Blackburn, Jasper. (See Trachte, Dietrich F., assignor.)
- Blackburn, Jasper, Webster Groves, Mo. Cable-hanger. No. 1,308,978; July 8; v. 264; p. 206.
- Blackburn, Jasper, Webster Groves, Mo. Cable-hanger. No. 1,308,979; July 8; v. 264; p. 207.
- Blackburn, Wilmuth E., Summit, N. J. Game apparatus. No. 1,298,161; Mar. 25; v. 260; p. 606.
- Blackburn, Wilmuth E., Summit, N. J. Game apparatus. No. 1,313,783; Aug. 19; v. 265; p. 415.
- Blacker, William, Stalybridge, England. Treadle-hammer. No. 1,297,990; Mar. 25; v. 260; p. 570.
- Blacker, William, Stalybridge, England. Puppet-block, puppet, and like device used in connection with the pressing, stamping, and treatment of metals. No. 1,323,001; Nov. 25; v. 268; p. 663.
- Blackman, George J., Uniontown, Pa., assignor to Richmond Radiator Company. Molding-flask. No. 1,321,803; Nov. 18; v. 268; p. 387.
- Blackie, William E. (See Towers, Arthur A., assignor.)
- Blacketter, Charles F., Minneapolis, Minn. Wood stain and filler. No. 1,316,674; Sept. 23; v. 266; p. 478.
- Blackman, Alexander, New Orleans, La. Bearing. No. 1,305,189; May 27; v. 262; p. 612.
- Blackman, Charles D., *et al.* (See Leitch, Roy C., assignor.)
- Blackman, James B. (See Overshiner, Ellsworth B., assignor.)
- Blackman, Walter W., Indianapolis, Ind. Lens-mount for photographic and projecting apparatus. No. 1,325,314; Dec. 16; v. 269; p. 501.
- Blackman, Zachary T., Long Beach, Miss. Rain-coat. No. 1,299,818; Apr. 8; v. 261; p. 302.
- Blackman, Zachary T., New Orleans, La. Knife-sharpener. No. 1,307,953; June 24; v. 263; p. 602.
- Blackmarr, Frederick S., assignor to Blackmarr Machine Company, Bayfield, Wis. Differentially-gear drum. No. 1,316,936; Sept. 23; v. 266; p. 526.
- Blackmarr Machine Company. (See Blackmarr, Frederick S., assignor.)
- Blackmon, Enoch J., Sherman, Tex. Cotton cleaning and extracting machine. No. 1,320,527; Nov. 4; v. 268; p. 32.
- Blackmore, Charles C., Dayton, Ohio. Ambulance. No. 1,303,016; May 6; v. 262; p. 103.
- Blackmore, William, assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling-support. No. 1,293,675; Feb. 11; v. 259; p. 193.
- Blackshear, James B., Honolulu, Hawaii. Sinkable toy ship. No. 1,292,422; Jan. 28; v. 258; p. 653.
- Blacksher, Erasmus M., Brewton, Ala. Starting, stopping, and stabilizing appliance for aeroplanes. No. 1,311,377; July 29; v. 264; p. 751.
- Blackstone, George M. (See Carter, Frank and E., assignors.)



- Blackstone, George M. (See Carter and Watts, assignors.)
- Blackwell, Francis O., Englewood, N. J., and N. H. Emons, 2d, New York, N. Y. Method and apparatus for the heat treatment of finely-divided materials. No. 1,315,460; Sept. 9; v. 266; p. 190.
- Blackwell, Harold A. (See Turner and Blackwell.)
- Blackwell, John O., Fordyce, Ark. Saw-rolling machine. No. 1,290,491; Jan. 7; v. 258; p. 115.
- Blackwood, Oswald H., Rolla, Mo., and F. Pearson, Chicago, Ill. Fountain-pen. No. 1,313,056; Aug. 12; v. 265; p. 261.
- Bladel, John P. (See Metz, Harry J., assignor.)
- Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-registering mechanism. No. 1,300,561; Apr. 15; v. 261; p. 489.
- Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-registering mechanism. No. 1,300,562; Apr. 15; v. 261; p. 490.
- Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-registering mechanism. No. 1,300,563; Apr. 15; v. 261; p. 490.
- Blaine, Joseph R., Oak Park, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Plate-clamp for printing-presses. No. 1,304,732; May 27; v. 262; p. 526.
- Blaine, Walter E., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,304,733; May 27; v. 262; p. 527.
- Blair, Benjamin L., Indianapolis, Ind. Air-gun. No. 1,299,901; Apr. 8; v. 261; p. 320.
- Blair, Benjamin L., Indianapolis, Ind. Air-gun discharge means. No. 1,314,850; Sept. 2; v. 266; p. 70.
- Blair, Charles E., Rochester, Mass., assignor to American Warp Drawing Machine Company. Warp-replenishing mechanism. No. 1,304,846; May 27; v. 262; p. 548.
- Blair, Frank R., Glen Ridge, N. J., assignor to F. R. Blair & Co., Inc., New York, N. Y. Flexible coupling. No. 1,302,291; Apr. 29; v. 261; p. 299.
- Blair, George O., Harrisburg, Colo. Wind-motor. No. 1,297,066; Mar. 11; v. 260; p. 319.
- Blair, Joseph, Dinuba, Calif. Brush-rake. No. 1,313,057; Aug. 12; v. 265; p. 261.
- Blair, Lewis V. D. (See Simonson and Blair.)
- Blair, Robert S., South Orange, N. J. Spraying device. No. 1,322,753; Nov. 25; v. 268; p. 617.
- Blair, Robert S., South Orange, N. J. Suspension for tennis-nets. No. 1,322,754; Nov. 25; v. 268; p. 617.
- Blair, Samuel A., Brooklyn, N. Y. Emergency jack and truck for vehicles. No. 1,298,284; Mar. 25; v. 260; p. 633.
- Blair, William, assignor to Rudge-Whitworth Limited, Coventry, England. Vehicle-wheel. No. 1,307,611; June 24; v. 263; p. 539.
- Blair, William S., Wellsburg, W. Va. Oil-can. No. 1,303,845; May 20; v. 262; p. 321.
- Blais, Joseph W., and G. Lecourt, Montreal, Quebec, Canada. Rack for boots and shoes. No. 1,304,847; May 27; v. 262; p. 548.
- Blaisdell, Robert W. (See Schwabach, Robert, assignor.)
- Blaisdell, Robert W., assignor of one-half to F. J. Mayer, Milwaukee, Wis. Shoe-relaxing machine. No. 1,312,676; Aug. 12; v. 265; p. 186.
- Blake, Charles C., Brookline, Mass., assignor to C. C. Blake, Incorporated, Boston, Mass. Work-support. No. 1,314,385; Aug. 26; v. 265; p. 564.
- Blake, Charles O., St. Johnsbury, Vt. Dirigible headlight. No. 1,303,017; May 6; v. 262; p. 103.
- Blake, Eli J., Westfield, N. J., assignor to Hall Switch & Signal Co. Train-control system. No. 1,316,263; Sept. 16; v. 266; p. 351.
- Blake, Frank H., Butte, Mont. Transmission-band. No. 1,319,560; Oct. 21; v. 267; p. 449.
- Blake, George A., deceased; M. D. Blake, administrator. Watertown, N. Y. Device for tying packages. No. 1,309,506; July 8; v. 264; p. 304.
- Blake, George E., Lancaster, Ohio. Trimming device. No. 1,319,834; Oct. 28; v. 267; p. 524.
- Blake, John H., Harlan, Ky. Shade and curtain holder. No. 1,302,292; Apr. 29; v. 261; p. 899.
- Blake, John T., Elwood, Ind. Sanitary spittoon. No. 1,320,977; Nov. 4; v. 268; p. 117.
- Blake, Ludwig L., South Bend, Ind. Binding-strip for floor-covering. No. 1,317,477; Sept. 30; v. 266; p. 665.
- Blake, Mary D., administrator. (See Blake, George A.)
- Blake, Nicholas J., Columbus, Ohio. Drafting apparatus. No. 1,310,596; July 22; v. 264; p. 573.
- Blake, Percy G. (See Boughton, Walter J., assignor.)
- Blake, William F., Detroit, Mich. Skillet, griddle, and bake-pan oiler. No. 1,296,456; Mar. 4; v. 260; p. 143.
- Blakely, Edward B., assignor to R. M. Ivid Company, Chicago, Ill. Valve for oil-engines. No. 1,296,614; Mar. 11; v. 260; p. 215.
- Blakely, William W., Detroit, Mich. Securing device for articles. No. 1,303,456; May 13; v. 262; p. 211.
- Blakemore, Frank B., Chicago, Ill. Speed-signaling system. No. 1,310,778; July 22; v. 264; p. 607.
- Blakeney, Albert N., assignor to Metal Package Corporation of New York, Brooklyn, N. Y. Drying-oven. No. 1,308,837; July 8; v. 264; p. 180.
- Blakeslee, Chester A. (See Zierlein, Herbert, assignor.)
- Blakeslee, George S., Chicago, Ill. Washing-machine. No. 1,293,676; Feb. 11; v. 259; p. 193.
- Blakeslee, George S., Chicago, Ill. Dish-washing machine. No. 1,299,667; Apr. 8; v. 261; p. 268.
- Blakeslee, George S., Chicago, Ill. Washing-machine. No. 1,313,455; Aug. 19; v. 265; p. 353.
- Blakeslee, George S., Chicago, Ill. Washing-machine. No. 1,314,041; Aug. 26; v. 265; p. 498.
- Blakeslee, Henry J., West Hartford, Conn. Meter-testing apparatus. No. 1,309,931; July 15; v. 264; p. 421.
- Blakeslee, John R., assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Safety device for forging-machines and the like. No. 1,300,240; Apr. 15; v. 261; p. 420.
- Blanchard, Adolphe, Varennes, France. Plow or analogous farm machine for enabling it to be operated by motor. No. 1,298,870; Apr. 1; v. 261; p. 58.
- Blanchard, Frederick C., assignor to Detroit Lubricator Company, Detroit, Mich. Forced-feed lubricator. No. 1,304,149; May 20; v. 262; p. 376.
- Blanchard, George L., Pomona, Calif. Gas-burner. No. 1,305,436; June 3; v. 263; p. 39.
- Blanchard, George L., Atlanta, Ga. Saw reconstruction. No. 1,306,741; June 17; v. 263; p. 347.
- Blanchard, Harry E., assignor to Lapointe Machine Tool Company, Hudson, Mass. Broaching-machine. No. 1,295,957; Mar. 4; v. 260; p. 31.
- Blanchard, Harry H., Boston, Mass. Valve-grinder. No. 1,318,311; Oct. 7; v. 267; p. 125.
- Blanchard, Joseph W., A. J. Schneeman, and L. A. Minea, St. Paul, Minn.; said Schneeman assignor to said Blanchard and said Minea. Toy No. 1,301,537; Apr. 22; v. 261; p. 725.
- Blanchard, Julius M., Chicago, Ill. Shipping-box. No. 1,319,835; Oct. 28; v. 267; p. 524.
- Blanchard, William N., assignor to American Optical Company, Southbridge, Mass. Goggles. No. 1,308,477; July 1; v. 264; p. 86.
- Bland, Perry. (See Whigan and Eden, assignors.)
- Blando, Frank, New York, N. Y. Folding chair. No. 1,291,737; Jan. 21; v. 258; p. 464.
- Blank, Charles A., Miller, Ind. Auto power-scoop. No. 1,301,643; Apr. 22; v. 261; p. 744.
- Blank, George W., St. Charles, Minn. Grain-distributor. No. 1,309,315; July 8; v. 264; p. 270.
- Blanke, Cyrus F., assignor to St. Louis Tin & Sheet Metal Working Co., St. Louis Mo. Suitcase. No. 1,299,291; Apr. 1; v. 261; p. 154.
- Blankennagel, Franz R., Passaic, N. J. Safety device for windows. No. 1,325,227; Dec. 16; v. 269; p. 484.
- Blankenship, Earl. (See Ralston and Blankenship.)
- Blankenstein, Richard J., Cleburne, assignor of one-fourth to W. H. Baade, Waco, Tex. Hoeing and chopping apparatus. No. 1,299,902; Apr. 8; v. 261; p. 320.
- Blanksma, Herman, Baird, Wash. Grease-cup. No. 1,292,572; Jan. 28; v. 258; p. 690.
- Blanning, George T., Blacktown, New South Wales, Australia. Float-controlled valve. No. 1,290,883; Jan. 14; v. 258; p. 234.
- Blanton, B. B. (See Quinn, Ernest J., assignor.)
- Blardone, George, assignor of one-half to Joseph M. Fornaris and Co., New Orleans, La. Extraction of silica from rice-hulls, &c. No. 1,293,008; Feb. 4; v. 259; p. 9.
- Blaschke, Julius, Chicago, Ill. Doughnut-dipper. No. 1,319,373; Oct. 21; v. 267; p. 413.
- Blasdale, Frederic W. (See Muschenheim and Blasdale.)
- Blasing, August, Manhattan, Kans. Replanter. No. 1,315,276; Sept. 9; v. 266; p. 157.
- Blasser, Olga E. E., et al. (See Barnes, Edwin B., assignor.)
- Blaszko, Piotr, Detroit, Mich. Soldier's headwear. No. 1,294,863; Feb. 18; v. 259; p. 507.
- Blaszko, Piotr, Detroit, Mich. Shade-hanger. No. 1,306,463; June 10; v. 263; p. 264.
- Blatchley, Melbourne E., Garden City, Kans. Lock. No. 1,318,833; Oct. 14; v. 267; p. 285.
- Blau, William, New York, N. Y. Fur-cutting implement. No. 1,310,736; July 22; v. 264; p. 599.
- Blaustein, Aron B., New York, N. Y. Clothes-hanger. No. 1,318,257; Oct. 7; v. 267; p. 115.
- Blaustein, Joseph, Newark, N. J. Tool-guiding jig. No. 1,293,009; Feb. 4; v. 259; p. 9.
- Blauvelt, Augustus, Paterson, N. J. Square. No. 1,303,846; May 20; v. 262; p. 321.
- Blauvelt, Frederic D., East Orange, N. J. Piston-ring. No. 1,313,784; Aug. 19; v. 265; p. 413.
- Blauvelt, William G., New York, N. Y., assignor to American Telephone and Telegraph Company. Semimechanical telephone system. No. 1,310,730; July 22; v. 264; p. 597.
- Blaw, Jacob B., Atlantic City, N. J. Reinforced-concrete conduit. No. 1,310,597; July 22; v. 264; p. 573.
- Blaw, Jacob B., Atlantic City, N. J. Portable hoisting apparatus. No. 1,310,598; July 22; v. 264; p. 573.
- Blaw-Knox Company. (See Barrow, Thomas, assignor.)
- Blaw-Knox Company. (See Brynoldt, Christlan, assignor.)
- Blaw-Knox Company. (See Knox, Luther L., assignor.)



## Alphabetical list of patentees—Continued.

- Blaw-Knox Company. (See Venable, William M., assignor.)
- Blaw Steel Construction Company. (See Brynoldt, Christian, assignor.)
- Blaw Steel Construction Company. (See Gage, Robert B., assignor.)
- Blaw Steel Construction Company. (See McArthur, Charles D., assignor.)
- Blaw Steel Construction Company. (See Venable, William M., assignor.)
- Blaylock, Gifford E., Baltimore, Md. Tag and checking device. No. 1,304,150; May 20; v. 262; p. 376.
- Blaylock, Gifford E., Baltimore, Md. Tire-tread stripper. No. 1,320,728; Nov. 4; v. 268; p. 69.
- Blaylock, Selwyn G. (See Stewart, Blaylock, Vaughan, and Batchelder.)
- Blazer, Earl H., Kansas City, Mo. Aeroplane-frame construction. No. 1,302,293; Apr. 29; v. 261; p. 899.
- Bleach Process Company. (See Wheeler, Frank G., assignor.)
- Blease, Herbert F. H. (See Mercer and Blease.)
- Blecker, Claude P. (See Von Bornstedt and Blecker.)
- Blecker, Albert, Akron, Ohio. Street-sweeping machine. No. 1,306,877; June 17; v. 263; p. 372.
- Blecker, Warren F., and W. L. Morrison, Cannonsburg, Pa., assignors to Electric Reduction Company. Producing alkali-earth metals. No. 1,311,378; July 29; v. 264; p. 751.
- Blecker, Warren F., and W. L. Morrison, Cannonsburg, Pa., assignors to Electric Reduction Company. Apparatus for producing alkali-earth metals. No. 1,311,379; July 29; v. 264; p. 751.
- Blecker, Warren F., and W. L. Morrison, Cannonsburg, Pa., assignors to Electric Reduction Company. Alkali-earth-metal material. No. 1,311,380; July 29; v. 264; p. 751.
- Blei, Robert, trustee. (See Stuart, Alexander T., assignor.)
- Bleier, Lee W., New York, N. Y. Cutting-machine. No. 1,306,327; June 10; v. 263; p. 238.
- Bleier, Lee W., New York, N. Y. Carrier-machine. No. 1,306,328; June 10; v. 263; p. 239.
- Bleile, Albert, Dayton, Ohio. Device for filling end-opening containers. No. 1,300,691; Apr. 15; v. 261; p. 516.
- Blérriot, Louis, Suresnes, France. Compressed-fluid distributor. No. 1,318,834; Oct. 14; v. 267; p. 285.
- Blessing, John G. (See Keith and Blessing.)
- Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Trunk-selecting switch. No. 1,312,514; Aug. 12; v. 265; p. 154.
- Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Calling device for automatic telephone systems. No. 1,317,152; Sept. 30; v. 266; p. 603.
- Blevens, Emmett, assignor to The Emmett Blevens Company, Louisville, Ky. Combined stocking and pad for artificial legs. No. 1,319,637; Oct. 21; v. 267; p. 464.
- Blevins, Alonzo. (See Body, Long, Johnson, Kilgore, and Blevins.)
- Blevins, General J., Bremen, Ala. Animal-trap. No. 1,305,054; May 27; v. 262; p. 587.
- Blewett, Charles L., Kingsley, Iowa. Loading-machine. No. 1,304,445; May 20; v. 262; p. 434.
- Blickensderfer, George C., deceased, Stamford, Conn.; W. J. Blickensderfer and S. S. Mapes, executors. Attachment for automatic guns. No. 1,290,828; Jan. 7; v. 258; p. 196.
- Blickensderfer, William J., et al., executors. (See Blickensderfer, George C.)
- Blesath, Ernest, assignor of one-half to G. W. De Witt, Portland, Oreg. Toy aeroplane. No. 1,300,564; Apr. 15; v. 261; p. 490.
- Bliss, Bruce E., Wichita, Kans. Two-part interlocking tire. No. 1,311,309; July 29; v. 264; p. 738.
- Bliss, Donald M., Orange, N. J. Loading shells. No. 1,317,422; Sept. 30; v. 266; p. 654.
- Bliss, Ebenezer M., Berkeley, Calif. Water-closet-flushing apparatus. No. 1,321,413; Nov. 11; v. 268; p. 263.
- Bliss, Elmer J., Boston, Mass. Inside gage for fitting shoes. No. 1,317,681; Oct. 7; v. 267; p. 4.
- Bliss, Elmer J., Boston, Mass. Size-gage for shoes. No. 1,318,835; Oct. 14; v. 267; p. 285.
- Bliss, Harold D., and W. H. Neubeck, assignors to Morris & Company, Chicago, Ill. Hog-singeing apparatus. No. 1,291,738; Jan. 21; v. 258; p. 464.
- Bliss, Orville J., Chicago, Ill. Protective relay system. No. 1,310,821; July 22; v. 264; p. 615.
- Bliss, William L., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting and lighting system for automobiles. No. 1,293,314; Feb. 4; v. 259; p. 79.
- Bliss, William L., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Belt-guard for pulleys. No. 1,296,259; Mar. 4; v. 260; p. 101.
- Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Variable-resistance regulator for electric circuits. No. 1,310,599; July 22; v. 264; p. 574.
- Blissell, Charles H., assignor of one-third to C. H. Wise Oil City, Pa. Pilot for locomotives. No. 1,310,731; July 22; v. 264; p. 597.
- Blizard, Charles E. (See Johnson and Blizard.)
- Blizard, Charles E., assignor to Winchester Repeating Arms Co., New Haven, Conn. Ventilated sight-rib for firearms. No. 1,323,149; Nov. 25; v. 268; p. 691.
- Bloom, Charles E. (See Schroeder, Emil W., assignor.)
- Bloch, Frederick O. (See Ittler, Sophus F., assignor.)
- Bloch, Jacob, Cincinnati, Ohio. Convertible electric sash-iron and heating and cooking stove and lamp. No. 1,293,010; Feb. 4; v. 259; p. 9.
- Bloch, Leon, New York, N. Y. Valve. No. 1,300,918; Apr. 15; v. 261; p. 564.
- Bloch, Olaf. (See Renwick and Bloch.)
- Block, Alexander E., St. Louis, Mo. Foot-supporter. No. 1,302,760; May 6; v. 262; p. 52.
- Block, Alvin, Rochester, N. Y. Concrete wall construction. No. 1,324,027; Dec. 9; v. 269; p. 196.
- Block, Louis A., New York, N. Y. Tooth-brush. No. 1,326,638; Dec. 30; v. 269; p. 801.
- Block, Michael, Boston, Mass., assignor to American Can Company, New York, N. Y. Display-cover for containers of various types. No. 1,316,264; Sept. 16; v. 266; p. 352.
- Block, Philip H., Cincinnati, Ohio. Receptacle for puncture-closing compounds. No. 1,290,884; Jan. 14; v. 258; p. 234.
- Block, Samuel. (See Reuter, Henry C., assignor.)
- Blodgett, Robert W. (See Warner and Blodgett.)
- Blodgett, Alexander S., Independence, Mo. Stabilizer for steering mechanisms. No. 1,320,978; Nov. 4; v. 268; p. 117.
- Blodgett, Martin, Brooklyn, N. Y. Type-writing machine. No. 1,308,980; July 8; v. 264; p. 207.
- Bloede, Victor G., Catonsville, Md. Production of adhesives. No. 1,324,332; Dec. 9; v. 269; p. 253.
- Blokar Manufacturing Company. (See Greenstreet, Milford L., assignor.)
- Blokhuis, Johan K. F., Middelharnis, Netherlands. Burner for inverted incandescent gaslights. No. 1,316,014; Sept. 16; v. 266; p. 305.
- Blom, Hans, Rjukan, assignor to Norsk Hydro-elektrisk Kvalstofabriksselskab, Christiania, Norway. Flange connection. No. 1,295,263; Feb. 25; v. 259; p. 621.
- Blomberg, Charles J., S. D. Bridgewater, S. D. Curtain-light. No. 1,302,500; May 6; v. 262; p. 4.
- Blomfield, Alfred L., Denver, Colo., assignor to The Dorr Company, Classifier. No. 1,292,237; Jan. 21; v. 258; p. 590.
- Blomfield, Alfred L., Denver, Colo., assignor to The Dorr Company. Ore-treating apparatus. No. 1,294,759; Feb. 18; v. 259; p. 483.
- Blomfield, Alfred L., Denver, Colo., assignor to The Dorr Company. Ore-treating apparatus. No. 1,294,864; Feb. 18; v. 259; p. 507.
- Blomfield, Alfred L., Denver, Colo., assignor to The Dorr Company. Flotation ore-separating apparatus. No. 1,310,051; July 15; v. 264; p. 442.
- Blomquist, August, Vancouver, British Columbia, Canada. Air lifting-jack. No. 1,299,668; Apr. 8; v. 261; p. 268.
- Blomquist, Johan V., Djursholms Ösby, Sweden. Steam plant. No. 1,301,806; Apr. 29; v. 261; p. 808.
- Blomquist, Johan V., Stockholm, Sweden. Producing steam of high pressure. No. 1,307,612; June 24; v. 263; p. 539.
- Blomster, Joel, and J. Schaben, Algona, Iowa. Spark-plug. No. 1,307,894; June 24; v. 263; p. 590.
- Blomstrom, Lowell C., Detroit, Mich. Screw-thread micrometer. No. 1,300,692; Apr. 15; v. 261; p. 516.
- Blonger, Louis H. (See Marshall, Charles A., assignor.)
- Blood, Burr B., assignor to G. Heidman and N. A. Street, Chicago, Ill. Cover-support. No. 1,296,260; Mar. 4; v. 260; p. 101.
- Blood, Burr B., assignor to G. Heidman and N. A. Street, Chicago, Ill. Phonograph. No. 1,313,250; Aug. 19; v. 265; p. 315.
- Blood, Charles W. H., Winthrop, Mass. Feed mechanism. No. 1,300,241; Apr. 15; v. 261; p. 420.
- Blood, Harold L. (See Greenleaf and Blood.)
- Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. System of lubrication. No. 1,296,744; Mar. 11; v. 260; p. 245.
- Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Planer and system of motor control therefor. No. 1,311,208; July 29; v. 264; p. 719.
- Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Planer and system of motor control therefor. No. 1,311,209; July 29; v. 264; p. 720.
- Bloodgood, James H., Jacksonville, Fla., assignor to T. H. Spencer, trustee, Birmingham, Ala. Portable hand-planer. No. 1,296,910; Mar. 11; v. 260; p. 284.
- Bloodgood, James H., Jacksonville, Fla., assignor to T. H. Spencer, trustee, Birmingham, Ala. Portable hand-planer. No. 1,296,911; Mar. 11; v. 260; p. 284.
- Bloom, Benjamin L., Brooklyn, assignor to Julius Kayser & Co., New York, N. Y. Thread-spinning mechanism. No. 1,302,626; May 6; v. 262; p. 27.
- Bloom, Carpenter J. and E. M., Troy, Pa. Egg-candling apparatus. No. 1,294,034; Feb. 11; v. 259; p. 278.
- Bloom, David M. (See Kaumever and Bloom.)
- Bloom, Earl M. (See Bloom, Carpenter J. and E. M.)



- Bloom, Edgar J., Tiffin, Ohio. Flush-valve. No. 1,323,519; Dec. 2; v. 269; p. 56.
- Bloom, George T., Magnolia, N. J. Coated wooden receptacle. No. 1,291,696; Jan. 14; v. 258; p. 423.
- Bloom, John, Rockford, Ill. Safety-razor. No. 1,304,734; May 27; v. 262; p. 527.
- Bloom, Karl, New York, N. Y. Truck-wheel impeller. No. 1,303,534; May 13; v. 262; p. 226.
- Bloom, William, New York, N. Y. Eraser-holder. No. 1,326,840; Dec. 30; v. 269; p. 839.
- Bloomberg, Carl. (See Fredriksson, Hildor, assignor.)
- Bloomer, Harvey E., Milwaukee, Wis., assignor, by mesne assignments, to Appleton Electric Company, Chicago, Ill. Convertible meter-box. No. 1,316,218; Sept. 16; v. 266; p. 343.
- Bloomhuff, Charles F. (See Bloomhuff, Ralph V. and C. F.)
- Bloomhuff, Ralph V. and C. F., assignors of one-third to H. E. Pierpont, Chicago, Ill. Flame-projector spark-plug. No. 1,320,115; Oct. 28; v. 267; p. 576.
- Bloomquist, Charles O., Wattis, Utah. Collar-button. No. 1,317,068; Sept. 23; v. 266; p. 551.
- Blossom, Fred V., Denver, Colo. Sunshade for automobiles. No. 1,297,067; Mar. 11; v. 260; p. 319.
- Blot-Garnier, Paul G., and G. P. Chevalier, Paris, France. Indicating or recording apparatus particularly applicable to marine logs. No. 1,296,947; Mar. 11; v. 260; p. 292.
- Blouin, Alfred, Holyoke, assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,311,747; July 29; v. 264; p. 820.
- Blount, Harry. (See Kochendorfer and Blount.)
- Bloxsum, Arthur E. (See O'Leary and Bloxsum.)
- Bloxsum, John J. (See Donaldson, Bloxsum, and Brooks.)
- Blucher, Hans. (See Krause and Blucher.)
- Bludworth, William D., Sacramento, Cal. Self-dumping wheelbarrow. No. 1,292,689; Jan. 28; v. 258; p. 719.
- Blue, John, Seattle, Wash. Key-ring holder. No. 1,304,015; May 20; v. 262; p. 352.
- Blue, Lillie M., Carthage, N. C. Guard. No. 1,323,443; Dec. 2; v. 269; p. 41.
- Bluhm, John C., Westville, Ind. Truss for vehicles. No. 1,294,606; Feb. 18; v. 259; p. 446.
- Bluhm, Joseph, assignor to Dana Manufacturing Corporation, Troy, N. Y. Ice-cream scoop. No. 1,296,745; Mar. 11; v. 260; p. 245.
- Blum, Carl P. (See Little and Blum.)
- Blum, Gabriel, Philadelphia, Pa. Garment. No. 1,323,572; Dec. 2; v. 269; p. 66.
- Blum, Harold T., Amherst, Ohio. Antirefillable bottle. No. 1,314,460; Aug. 26; v. 265; p. 578.
- Blum, Harry, Johnstown, Pa. Safety-razor. No. 1,313,980; Aug. 26; v. 265; p. 486.
- Blumberg, David, Bridgeport, Conn. Auto traction device. No. 1,291,380; Jan. 14; v. 258; p. 349.
- Blumberg, Gustav, and J. A. Butkus, Baltimore, Md. Electric clock. No. 1,312,946; Aug. 12; v. 265; p. 239.
- Blumberg, Gustav, and J. A. Butkus, Baltimore, Md. Electric horn. No. 1,317,123; Sept. 23; v. 266; p. 561.
- Blumberg, Gustav, deceased, and J. A. Butkus, deceased, Baltimore, Md.; J. W. Darley, administrator, and A. F. Schoen and J. W. Darley, administrators. Commutator. No. 1,319,988; Oct. 28; v. 267; p. 553.
- Blumberg, Hamilton G., San Antonio, Tex. Valve mechanism for gas-engines. No. 1,304,735; May 27; v. 262; p. 527.
- Blumberg, Oscar R., and B. D. Horton, assignors to Detroit Fuse & Mfg. Company, Detroit, Mich. Electromagnet. No. 1,320,598; Nov. 4; v. 268; p. 45.
- Blume, Carlos A., New York, N. Y. Necktie-guide. No. 1,324,028; Dec. 9; v. 269; p. 196.
- Blumenberg, Henry, Jr., Los Angeles, Cal. Producing potassium nitrate. No. 1,296,460; Mar. 4; v. 260; p. 144.
- Blumenberg, Henry, Jr., Los Angeles, Cal. Making potassium chlorid. No. 1,296,461; Mar. 4; v. 260; p. 144.
- Blumenberg, Henry, Jr., Los Angeles, Calif. Producing potassium sulfate. No. 1,297,638; Mar. 18; v. 260; p. 469.
- Blumenberg, Henry, Jr., Oro Grande, Cal. Apparatus for recovering potassium salts from cement-kilns. No. 1,296,462; Mar. 4; v. 260; p. 144.
- Blumenberg, Henry, Jr., Oro Grande, Cal. Recovering potassium compounds from waste gases of cement-kilns and the like. No. 1,296,463; Mar. 4; v. 260; p. 144.
- Blumenberg, Henry, Jr., Oro Grande, Cal. Treating cement mixtures for the recovery of potassium compounds. No. 1,296,464; Mar. 4; v. 260; p. 145.
- Blumenberg, Henry, Jr., Oro Grande, Cal. Treating Portland cement and the resulting product. No. 1,296,467; Mar. 4; v. 260; p. 145.
- Blumenberg, Henry, Jr., Oro Grande, Cal. Toxic cement. No. 1,296,468; Mar. 4; v. 260; p. 145.
- Blumenberg, Henry, Jr., Oro Grande, Calif. Apparatus for recovering potassium compounds from cement-kiln gases. No. 1,297,639; Mar. 18; v. 260; p. 469.
- Blumenberg, Henry, Jr., assignor to Chemical Construction Company, Los Angeles, Cal. Making boric acid and sodium borate. No. 1,295,958; Mar. 4; v. 260; p. 32.
- Blumenberg, Henry, Jr., assignor to Chemical Construction Company, Los Angeles, Cal. Extracting potassium salts from feldspar. No. 1,296,457; Mar. 4; v. 260; p. 143.
- Blumenberg, Henry, Jr., assignor to Chemical Construction Company, Los Angeles, Cal. Extracting potassium from minerals. No. 1,296,458; Mar. 4; v. 260; p. 143.
- Blumenberg, Henry, Jr., assignor to Chemical Construction Company, Los Angeles, Cal. Producing potassium sales. No. 1,296,459; Mar. 4; v. 260; p. 143.
- Blumenberg, Henry, Jr., Oro Grande, assignor to Chemical Construction Company, Los Angeles, Cal. Treating cement-kiln gases. No. 1,296,465; Mar. 4; v. 260; p. 145.
- Blumenberg, Henry, Jr., Oro Grande, assignor to Chemical Construction Company, Los Angeles, Cal. Recovering potassium compounds from waste gases of cement-kilns or the like. No. 1,296,466; Mar. 4; v. 260; p. 145.
- Blumenberg, Henry, Jr., Oro Grande, assignor to Chemical Construction Company, Los Angeles, Calif. Making potassium nitrate. No. 1,297,640; Mar. 18; v. 260; p. 469.
- Blumenstein, Louis. (See Fischer, William, assignor.)
- Blumenthal, Alexandre and J. Paris, France. Machine for fixing clasps. No. 1,308,327; July 1; v. 264; p. 58.
- Blumenthal, Isadore, New York, N. Y. Match-box. No. 1,296,912; Mar. 11; v. 260; p. 284.
- Blumenthal, Jack. (See Blumenthal, Alexandre and J.)
- Blumenthal, Louis, Brooklyn, N. Y. Knife-sharpener for cloth-cutting machines. No. 1,291,381; Jan. 14; v. 258; p. 350.
- Blundell, William C., and O. W. Smith, Los Angeles, Calif. Automatic water-feed control for boilers. No. 1,318,642; Oct. 14; v. 267; p. 249.
- Blunt, James G., Schenectady, N. Y. Locomotive draw-bar. No. 1,293,315; Feb. 4; v. 259; p. 80.
- Blunt, Joseph D., et al. (See Tolles and Ernsbarger, assignors.)
- Blush, Angus T., Erie, Pa. Micrometer. No. 1,311,548; July 29; v. 264; p. 783.
- Bly, Elmer L., Stanley, Wis. Windlass attachment for motor-driven vehicles. No. 1,296,615; Mar. 11; v. 260; p. 215.
- Bye, Harold, assignor to National Brass Co., Grand Rapids, Mich. Gravity-latch. No. 1,294,227; Feb. 11; v. 259; p. 324.
- Bye, Harold, assignor to National Brass Co., Grand Rapids, Mich. Door-bolt. No. 1,305,338; June 3; v. 263; p. 20.
- Bye, Harold, assignor to National Brass Co., Grand Rapids, Mich. Door-latch. No. 1,310,600; July 22; v. 264; p. 574.
- Blystad, Karl A., Kongsvinger, Norway. Runner for vehicles. No. 1,315,360; Sept. 9; v. 266; p. 172.
- Blyth, Charles E., Stockton, England. Transference of loose material. No. 1,323,243; Dec. 2; v. 269; p. 4.
- Blyth, Charles E., Stockton, England. Transference of loose material. No. 1,323,244; Dec. 2; v. 269; p. 4.
- Blyth, Meredith W., and T. V. Miles, Sheffield, England. Process and apparatus for the treatment of benzol and the like. No. 1,305,870; June 3; v. 263; p. 121.
- Boak, Howard P. (See Sullivan and Boak.)
- Boardman, Alfred E., Seattle, Wash. Automatic sprinkler. No. 1,312,515; Aug. 12; v. 265; p. 154.
- Boardman, Charles H., Vivian, W. Va. Signaling device. No. 1,304,936; May 27; v. 262; p. 564.
- Boardman, Charles S., Buffalo, N. Y., assignor to Lackawanna Steel Company, Lackawanna, N. Y. Pile driver and puller. No. 1,310,408; July 22; v. 264; p. 539.
- Boardman, Charles W., Pawtucket, R. I. Mount for tension-pulleys for spinning and twisting machines. No. 1,298,163; Mar. 25; v. 260; p. 607.
- Boardman, Ervin S., Thorp, Wis. Egg-strap and fastener. No. 1,304,532; May 27; v. 262; p. 490.
- Boardman, Francis, New York, N. Y. Electrical heating device. No. 1,294,607; Feb. 18; v. 259; p. 447.
- Boardman, Francis, New York, N. Y. Protective device for railway-switch points and the like. No. 1,325,977; Dec. 23; v. 269; p. 640.
- Boath, Edward E., Norwood, Ohio. Device for stirring viscous materials. No. 1,298,651; Apr. 1; v. 261; p. 6.
- Boberg, Teofron, assignor to Techno-Chemical Laboratories, Limited, London, England. Making sodium ferrocyanid. No. 1,318,258; Oct. 7; v. 267; p. 115.
- Robian, Johan, Southwest, Pa. Rail-joint. No. 1,208,618; July 1; v. 264; p. 112.
- Boblett, Kinderman M., Toledo, Ohio. Automobile-radiator. No. 1,302,627; May 6; v. 262; p. 28.
- Boblett, Kinderman M., Toledo, Ohio. Metal-bending into looped formation. No. 1,311,637; July 29; v. 264; p. 799.
- Bobo, Charles F., Hollis, N. Y. Alarm. No. 1,305,190; May 27; v. 262; p. 613.
- Bobo, Isaac F., Lynchburg, Tenn. Saw-set. No. 1,321,359; Nov. 11; v. 268; p. 253.
- Bobroff, Bornett L., assignor, by mesne assignments, to E. Dillmann and H. J. Turck, trustees, Milwaukee, Wis. Indicating device. No. 1,298,871; Apr. 1; v. 261; p. 58.
- Bobsein, Frank J., Gowanda, N. Y. Gutter-cleaning device for stables. No. 1,323,954; Dec. 2; v. 269; p. 138.



## Alphabetical list of patentees—Continued.

- Bocchino, Ernest, *et al.* (See De Cesare, Matteo, assignor.)
- Bock, Arthur W., Antioch, Ill. Ash receptacle and sifter. No. 1,321,971; Nov. 18; v. 268; p. 419.
- Bock Bearing Company, The. (See Bingham, Jeremiah, assignor.)
- Bock Bearing Company, The. (See Bock, William E., assignor.)
- Bock, Henry L., assignor to W. E. Bock, Toledo, Ohio. Equalizing-gear for vehicle-springs. No. 1,314,784; Sept. 2; v. 266; p. 58.
- Bock, Richard G. (See Bock, William and R. G.)
- Bock, Theresa E., Rome, N. Y. Bed. No. 1,304,650; May 27; v. 262; p. 511.
- Bock, William and R. G., Chicago, Ill. Car-door-operating device. No. 1,299,420; Apr. 8; v. 261; p. 211.
- Bock, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,290,059; Jan. 7; v. 258; p. 11.
- Bock, William A. and R. G., Chicago, Ill., assignors to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,290,058; Jan. 7; v. 258; p. 10.
- Bock, William E. (See Bock, Henry L., assignor.)
- Bock, William E., Toledo, Ohio. Motor-vehicle. No. 1,311,591; July 29; v. 264; p. 791.
- Bock, William E., Toledo, assignor to The Bock Worm Gear Company, Cleveland, Ohio. Forming worm-gears. No. 1,305,437; June 3; v. 263; p. 39.
- Bock, William E., Toledo, Ohio, assignor to The Bock Bearing Company, (incorporated in Ohio in March, 1916.) Article-grinding machine. No. 1,310,386; July 15; v. 264; p. 503.
- Bock, William E., assignor to The Bock Bearing Company, Toledo, Ohio. Head-grinding machine. No. 1,319,921; Oct. 28; v. 267; p. 540.
- Bock, William E., Toledo, assignor to The Bock Worm Gear Company, Cleveland, Ohio. Worm-gear. No. 1,320,372; Nov. 4; v. 268; p. 3.
- Bock, William E., assignor to The Bock Bearing Company, Toledo, Ohio. Forming roller-bearing units. No. 1,320,373; Nov. 4; v. 268; p. 3.
- Bock Worm Gear Company, The. (See Bock, William E., assignor.)
- Bocker, Hermina A., Buffalo, N. Y. Car-fender-operating means. No. 1,300,919; Apr. 15; v. 261; p. 564.
- Bocking, Frederick W., Van Buren, Ark. Rabbie and clinker-breaker. No. 1,308,653; July 1; v. 264; p. 118.
- Bockisch, Heinrich, Poughkeepsie, assignor to M. Welte & Sons, New York, N. Y. Mechanism for synchronizing the operations of moving parts. No. 1,324,779; Dec. 16; v. 269; p. 401.
- Bockius, Walter A., Wilmette, Ill. Lap for cylinders. No. 1,318,531; Oct. 14; v. 267; p. 227.
- Bockius, Walter A., assignor to The Beckley-Ralston Co., Chicago, Ill. Tool for driving bearing-sleeves from sockets. No. 1,324,790; Dec. 16; v. 269; p. 403.
- Bockshe, Ely, assignor to Modern Grinder Manufacturing Co., Milwaukee, Wis. Gear-casing for tool-grinders. No. 1,298,652; Apr. 1; v. 261; p. 7.
- Bockshe, Ely, assignor to Modern Grinder Manufacturing Co., Milwaukee, Wis. Adjustable casing for grinders. No. 1,298,653; Apr. 1; v. 261; p. 7.
- Bodde, Theodore, Lynn, Mass., assignor to General Electric Company. Transforming device. No. 1,298,443; Mar. 25; v. 260; p. 667.
- Boddie, Clarence A. (See Bradshaw and Boddie.)
- Boddie, Clarence A., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Electrical measuring instrument. No. 1,290,492; Jan. 7; v. 258; p. 115.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,296,616; Mar. 11; v. 260; p. 215.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric-current meter. No. 1,303,241; May 13; v. 262; p. 174.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Ampere-hour meter. No. 1,303,242; May 13; v. 262; p. 174.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Ampere-hour meter. No. 1,303,243; May 13; v. 262; p. 174.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Maximum-demand meter. No. 1,303,244; May 13; v. 262; p. 174.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Maximum-demand meter. No. 1,303,457; May 13; v. 262; p. 211.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,306,878; June 17; v. 263; p. 372.
- Boddiker, Henry, Chicago, Ill., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,315,277; Sept. 9; v. 266; p. 157.
- Bodeau, Arthur C. (See Fournier, Edmond E., assignor.)
- Bodell, Allen W., Wilmette, Ill. Internal-combustion engine. No. 1,297,068; Mar. 11; v. 260; p. 319.
- Boden, George, assignor to Oakville Company, Waterbury, Conn. Embroidery-ring. No. 1,318,721; Oct. 14; v. 267; p. 263.
- Bodey, Edward J., Cincinnati, Ohio. Electric vibrator. No. 1,316,874; Sept. 23; v. 266; p. 514.
- Bodine, David E., North St. Paul, Minn. Wall and wall-tie. No. 1,304,651; May 27; v. 262; p. 511.
- Bodine, Le Roy M., Walnut, Ill. Drawer-pull fastener. No. 1,319,948; Oct. 28; v. 267; p. 546.
- Bodinson, Lars W., assignor to The American Well Works, Aurora, Ill. Pumping mechanism. No. 1,321,804; Nov. 18; v. 268; p. 387.
- Bodlak, Oldrich, St. Paul, Minn. Berry-picking device. No. 1,316,265; Sept. 16; v. 266; p. 352.
- Bodman, Walter L., Bromsgrove, England. Wheel for motor and other vehicles. No. 1,310,732; July 22; v. 264; p. 598.
- Bodmer, Christian, assignor to The Stanley Rule & Level Co., New Britain, Conn. Square and bevel blade fastening. No. 1,322,086; Nov. 18; v. 268; p. 439.
- Bodmer, Gottlieb, Zurich, Switzerland. Cock for liquids and vapors. No. 1,296,746; Mar. 11; v. 260; p. 246.
- Bodmer, Gottlieb, Zurich, Switzerland. Liquid-dispensing apparatus. No. 1,317,953; Oct. 7; v. 267; p. 55.
- Body, Joseph J., L. Long, M. L. Johnson, Dante, C. F. Kilgore and A. Blevins, Coeburn, Va. Mine-door-operating means. No. 1,311,488; July 29; v. 264; p. 772.
- Boe, Edd. (See Halseth, Edwin A., assignor.)
- Boe, Gunnar G., Oakland, Calif. Toy. No. 1,324,003; Dec. 2; v. 269; p. 147.
- Boe, Hans M., Minneapolis, Minn. Grease-dispensing apparatus. No. 1,320,729; Nov. 4; v. 268; p. 69.
- Boeck, Charles H., Jackson, Mich. Oil-burner. No. 1,318,959; Oct. 14; v. 267; p. 309.
- Boeck, Charles H., assignor to White Frost Refrigerator Company, Jackson, Mich. Water-cooler attachment for refrigerators. No. 1,252,573; Jan. 28; v. 258; p. 690.
- Boeck, Jay E., *et al.* (See Oiler, Frank E., assignor.)
- Boeck, Percy A., New York, N. Y. Rotary kiln. No. 1,314,461; Aug. 26; v. 265; p. 578.
- Boedtscher, Franz A., Bergenfield, N. J., and S. I. Schwartz, New York, N. Y. Wind-shield. No. 1,295,102; Feb. 25; v. 259; p. 584.
- Boehm, Frank J., *et al.* (See Funk, Oscar F., assignor.)
- Boehm, George J., Elizabeth, N. J. Fire-hydrant wrench. No. 1,326,172; Dec. 30; v. 269; p. 713.
- Boehmer, Ferdinand, *et al.* (See Miller, Jacob J., assignor.)
- Boehnke, Henry, Kramer, N. D. Heat-distributing device. No. 1,302,000; Apr. 29; v. 261; p. 845.
- Boehringer, Louis V., and H. Thomassen, Dayton, Ohio. Door-lock. No. 1,308,473; July 1; v. 264; p. 85.
- Boeing Airplane Co. (See Miller, John W., assignor.)
- Boerlin, Louis J., Chicago, Ill. Merchandizing-package. No. 1,306,574; June 10; v. 263; p. 283.
- Boerner, Arno, Scheveningen, assignor to Naamlooze Vennootschap Oetooi Maatschappij "Holland" tot exploitatie van Uitvindingen, Amsterdam, Netherlands. Cooling or cooking box. No. 1,295,417; Feb. 25; v. 259; p. 656.
- Boerner, Arno, Scheveningen, Netherlands, assignor to Naamlooze Vennootschap Oetooi Maatschappij "Holland" tot exploitatie van Uitvindingen, Amsterdam, Netherlands. Gem-grinding apparatus. No. 1,314,785; Sept. 2; v. 266; p. 58.
- Boerner, Frederick W., Lubbock, Tex. Windmill-pipe attachment. No. 1,326,435; Dec. 30; v. 269; p. 763.
- Boerngen, Albert E. (See Wagner, Lohr, and Boerngen.)
- Boesch, Fred M., and E. G. Foster, assignors to The Brandt Company, Cleveland, Ohio. Fish-scaling device. No. 1,324,581; Dec. 9; v. 269; p. 302.
- Boesch, Gustav, Danbury, Conn. Apparatus for applying tires to vehicle-wheels. No. 1,312,608; Aug. 12; v. 265; p. 174.
- Boesch, Moritz C., Perth Amboy, N. J. Cigar-cutting machine. No. 1,321,591; Nov. 11; v. 268; p. 296.
- Bogaerts, Joseph, Sutton, England. Mixing apparatus. No. 1,302,294; Apr. 29; v. 261; p. 899.
- Bogart, John A., assignor to Alberger Gas Engine Company, Buffalo, N. Y. Expansion-joint. No. 1,319,457; Oct. 21; v. 267; p. 430.
- Bogaty, Hermann, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying apparatus. No. 1,298,285; Mar. 25; v. 260; p. 634.
- Bogda, Frank H., Horicon, Wis. Stanchion-alignment device. No. 1,312,677; Aug. 12; v. 265; p. 186.
- Bogda, Frank H., Horicon, Wis. Strainer-valve. No. 1,314,566; Sept. 2; v. 266; p. 18.
- Bogdahn, Anton, Westbrook, Me. Safety-pin. No. 1,315,755; Sept. 9; v. 266; p. 242.
- Bogdanffy, Alexander, Brooklyn, N. Y. Disk-cutting machine. No. 1,307,077; June 17; v. 263; p. 409.
- Bogert, Cornelius W., Brooklyn, N. Y. Receptacle. No. 1,293,316; Feb. 4; v. 259; p. 80.
- Bogert, Cornelius W., Brooklyn, N. Y. Receptacle. No. 1,293,317; Feb. 4; v. 259; p. 80.
- Bogert, Elmer A., Montclair, N. J. Visual signal for automobiles. No. 1,302,001; Apr. 29; v. 261; p. 845.
- Bogert, John L., assignor to E. H. Ludeman, New York, N. Y. Fastening. No. 1,322,087; Nov. 18; v. 268; p. 440.
- Boggs, Addison E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical protective device. No. 1,305,057; May 27; v. 262; p. 587.



- Boggs, Charles R., Arlington Heights, assignor to Simplex Wire & Cable Co., Boston, Mass. Accelerator for the vulcanization of rubber. No. 1,296,469; Mar. 4; v. 260; p. 145.
- Boggs, Samuel L., Ivanhoe, Va. Apparatus for separating ores from gangue. No. 1,324,791; Dec. 16; v. 269; p. 404.
- Bognár, Béla, New York, N. Y. Insulating electrical conductor. No. 1,325,709; Dec. 23; v. 269; p. 591.
- Bogue, Robert D. (See Harris and Bogue.)
- Bogue, Robert J., Goodlett, Tex. Cooking utensil. No. 1,307,078; June 17; v. 263; p. 410.
- Bohachik, Cassimir, Chicago, Ill. Bullet-firing alarm-lock. No. 1,296,747; Mar. 11; v. 260; p. 246.
- Bohan, Joseph H., Chicago, Ill. Binding-clip for sheet-music and the like. No. 1,291,382; Jan. 14; v. 258; p. 350.
- Bohan, William J., St. Paul, Minn. Draft device for locomotives. No. 1,300,335; Apr. 15; v. 261; p. 440.
- Bohan, William J., St. Paul, Minn. Door. No. 1,300,336; Apr. 15; v. 261; p. 441.
- Bohan, William J., St. Paul, Minn. Lamp. No. 1,323,819; Dec. 2; v. 269; p. 112.
- Bohanan, Budd D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for interlacing fastenings. No. 1,321,185; Nov. 11; v. 268; p. 219.
- Bohannon, Hoyt H., and C. Z. Harden, Ashburn, Ga. Automatic pressure-compensator. No. 1,323,955; Dec. 2; v. 269; p. 138.
- Bohleber, William, executor. (See Bundy, Cyrus L.)
- Bohlman, George J., Medford, assignor to American Water Supply Company of New England, Boston, Mass. Paper cup. No. 1,295,418; Feb. 25; v. 259; p. 657.
- Bohlmann, Edward C., Excelsior, Minn. Variable-speed power transmission. No. 1,305,871; June 3; v. 263; p. 121.
- Bohmker, John C., and J. Geistwhite, Kankakee, assignors to Sears, Roebuck and Company, Chicago, Ill. Plow. No. 1,324,101; Dec. 9; v. 269; p. 209.
- Bohne, Henry, Dodge, Nebr. Resilient wheel. No. 1,318,259; Oct. 7; v. 267; p. 115.
- Bohne, William C., Philadelphia, Pa. Tire applying and removing device. No. 1,320,829; Nov. 4; v. 268; p. 88.
- Bohy, Alfred, Albia, Iowa. Washing-machine mechanism. No. 1,310,558; July 22; v. 264; p. 566.
- Boig, James H. C., Oklahoma, Okla. Cotton-picking device. No. 1,305,960; June 3; v. 263; p. 139.
- Bois, Nathaniel, San Francisco, Calif. Interlocking stair-form. No. 1,304,533; May 27; v. 262; p. 490.
- Boissier, Edgar. (See Henry, George W., assignor.)
- Boissière, Adolphe, Paris, France. Motor-tractor having endless-chain tracks. No. 1,298,444; Mar. 25; v. 260; p. 667.
- Boisvert, Joseph H., Windsor, Ontario, Canada. Center-indicator. No. 1,295,103; Feb. 25; v. 259; p. 585.
- Boite, Ernest E. G. (See Edridge and Boite.)
- Boker, Carl F. (See Neff, Robert C., assignor.)
- Boker, Vitus A. (See Staudé and Boker.)
- Boker, Vitus A., Minneapolis, Minn. Draft connection. No. 1,317,907; Oct. 7; v. 267; p. 47.
- Boker, Vitus A., Minneapolis, Minn. Wheel. No. 1,317,908; Oct. 7; v. 267; p. 47.
- Boland, Albert J., St. Louis, Mo. Enameling-furnace. No. 1,290,060; Jan. 7; v. 258; p. 11.
- Boland, Francis P., Providence, R. I. Drying process and apparatus for tentering and other machines. No. 1,294,035; Feb. 11; v. 259; p. 278.
- Boland, John V., St. Louis, Mo. Mold. No. 1,297,315; Mar. 18; v. 260; p. 402.
- Boland-Pierce, Nellie, Albany, N. Y. Bust-support. No. 1,316,675; Sept. 23; v. 266; p. 478.
- Bolas, George A., Rosalie, Nebr., and J. F. Bolas, Fort Riley, Kans. Towing and brake-applying connection for vehicle-trailers. No. 1,294,608; Feb. 18; v. 259; p. 447.
- Bolas, Harold, Brislington, Bristol, England. Seaplane or aeroplane. No. 1,304,652; May 27; v. 262; p. 511.
- Bolas, John F. (See Bolas, George A. and J. F.)
- Bold, Frederick W. (See Eberhard, Maloney, and Bold.)
- Boldizar, Ladislav, Pine Bluff, Ark. Article of jewelry. No. 1,318,201; Oct. 21; v. 267; p. 381.
- Bole, Giles G., Union City, Mich. Sifter-grate. No. 1,293,677; Feb. 11; v. 259; p. 194.
- Bolen, Emerson A., Morris, Ill. Vending-machine. No. 1,310,601; July 22; v. 264; p. 574.
- Bolender, Augustus B., Muncie, Ind. Gear-holding chuck. No. 1,290,885; Jan. 14; v. 258; p. 235.
- Bolens, Harry W., Port Washington, Wis. Chair-iron. No. 1,297,436; Mar. 18; v. 260; p. 426.
- Bolger, Robert S., Richmond Hill, assignor of one-half to G. F. Whistler, Brooklyn, N. Y. Paper barrel. No. 1,302,128; Apr. 29; v. 261; p. 869.
- Bolignano, Gilbert F., assignor to The Bartlett Hayward Company, Baltimore, Md. Machine for graduating time-rings. No. 1,309,593; July 8; v. 264; p. 321.
- Bolin, Nils P., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,309,716; July 15; v. 264; p. 381.
- Bolling Airplane Co. (See Pocock, George Y., assignor.)
- Bolling, Charles W. (See Laing and Boling.)
- Boling, Edgar R., Hannibal, Mo. Expansible pulley. No. 1,299,669; Apr. 8; v. 261; p. 268.
- Boll, Charles W., Harrisburg, Pa. Discount-savings check. No. 1,300,693; Apr. 15; v. 261; p. 516.
- Bollenbacher, William, Bellevue, Ohio. Child's toy. No. 1,305,517; June 3; v. 263; p. 54.
- Boller, Carl H., Kansas City, Mo. Ventilating window, louver, door, and the like. No. 1,297,786; Mar. 18; v. 260; p. 502.
- Boller, Frank, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Buffing-machine. No. 1,324,224; Dec. 9; v. 269; p. 233.
- Bollie, Bert, Aurora, Ill. Micrometer drilling-gage. No. 1,305,872; June 3; v. 263; p. 121.
- Bollier, Charles R. (See Reeves, Samuel H., assignor.)
- Bolling, John E., Newark, N. J. Apparatus for conditioning gas. No. 1,305,518; June 3; v. 263; p. 54.
- Bollinger, Lester J. (See Shafer and Bollinger.)
- Bollman, George W., Adamstown, Pa. Treating wool hats. No. 1,305,055; May 27; v. 262; p. 587.
- Bolser, Louis F. (See Fewell, Albert E., assignor.)
- Bolster, Arthur G. (See Lipé and Bolster.)
- Bolt, Rufus R., assignor of one-half to A. Burdelow, Canton, Ohio. Brick. No. 1,318,960; Oct. 14; v. 267; p. 310.
- Bolte, Edward F., Chicago, Ill. Window blind and ventilator. No. 1,307,479; June 24; v. 263; p. 516.
- Bolton, Elmer K., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Diazotization. No. 1,320,443; Nov. 4; v. 268; p. 16.
- Bolton, Jack R., J. D. Williams, Sulphur Springs, and F. L. Struve, Greenville, Tex. Lemon and lime squeezer. No. 1,305,339; June 3; v. 263; p. 21.
- Bolund, Gustav, assignor of one-third to E. J. Tyrrell, Oakland, Calif. Sliding rivet-holder. No. 1,320,830; Nov. 4; v. 268; p. 89.
- Bolus, Glenn H., assignor to The Ohio Brass Company, Mansfield, Ohio. Duplex catenary pull-over. No. 1,292,238; Jan. 21; v. 258; p. 590.
- Bolus, Glenn H., and W. A. Darrah, assignors to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire hanger. No. 1,296,748; Mar. 11; v. 260; p. 246.
- Bolz, Charles O., Portsmouth, Va. Dyeing materials tan or brown. No. 1,321,972; Nov. 18; v. 268; p. 419.
- Bolz, Charles O., Port Norfolk, Va. Dyeing. No. 1,321,973; Nov. 18; v. 268; p. 419.
- Boman, Henry, Tulsa, Okla. Fishhook. No. 1,312,824; Aug. 12; v. 265; p. 215.
- Bomhard, Albert T., Piqua, Ohio. Smoke-hood for stoves. No. 1,298,164; Mar. 25; v. 260; p. 607.
- Bomya, George. (See Antieau, Richard, assignor.)
- Bonaker, Otto. (See Weinberger, Marcus, assignor.)
- Bonaly, Louis F., Leavenworth, Kans. Springless door lock and latch. No. 1,326,173; Dec. 30; v. 269; p. 713.
- Bond, Edgar T., Chicago, Ill. Folding crate. No. 1,318,532; Oct. 14; v. 267; p. 228.
- Bond Foundry & Machine Company. (See Bowen, James, assignor.)
- Bond, George T., Huntington, W. Va. Brake-shoe and making same. No. 1,292,423; Jan. 28; v. 258; p. 653.
- Bond, John P., Portland, Oreg. Band-brake clamp. No. 1,316,266; Sept. 16; v. 266; p. 352.
- Bond, William E., county of Hertford, England. Photographic-printing frame. No. 1,293,678; Feb. 11; v. 259; p. 194.
- Bonde, Alfred, and T. Norman, Christiania, Norway, assignors, by mesne assignments, to J. M. Larsen, Chicago, Ill. Craft of steel-concrete. No. 1,325,228; Dec. 16; v. 269; p. 484.
- Bone, Benjamin F., et al. (See Kennedy, James W., assignor.)
- Bone, David R., Oglesby, Tex. Kiln. No. 1,303,760; May 13; v. 262; p. 267.
- Bonel, Spiro S., Detroit, Mich. Vehicle-body construction and upholstery therefor. No. 1,303,535; May 13; v. 262; p. 226.
- Bong, Gustaf, Ystad, Sweden. Adjusting device for sorting-machines. No. 1,325,505; Dec. 23; v. 269; p. 553.
- Bong, John M. (See McGuire and Bong, assignors.)
- Bongio, Philip P., and E. Stephenson, Fort Worth, Tex. Apparatus for curing tire-casings. No. 1,307,079; June 17; v. 263; p. 410.
- Bongio, Philip P., and E. Stephenson, assignors to Two Cure Retread Mold Company, Fort Worth, Tex. Apparatus for curing tire-casings. No. 1,323,573; Dec. 2; v. 269; p. 66.
- Bonham, Anson R., Philadelphia, Pa. Display-box. No. 1,296,158; Mar. 4; v. 260; p. 79.
- Bonham, Edwin, assignor of one-half to J. C. Wiltbank, Camden, N. J. Clamping-check. No. 1,320,116; Oct. 28; v. 267; p. 576.
- Bonham, Guy L., West Hartford, Conn. Car-mover. No. 1,315,905; Sept. 9; v. 266; p. 271.
- Bonham, Roy A., Springfield, Mo. Electrically-controlled transmission mechanism. No. 1,311,748; July 29; v. 264; p. 820.
- Bonilla, Ralph S., assignor of one-half to P. H. Webber, New York, N. Y. Combination latch-lock. No. 1,325,346; Dec. 16; v. 269; p. 506.
- Bonine, Charles E., Melrose Park, Pa. Locking device for control-levers of automobiles. No. 1,325,887; Dec. 23; v. 269; p. 624.



## Alphabetical list of patentees—Continued.

- Bonnard, William F. and S. E. Kleinkauf, Los Angeles, Calif. Lifting-tongs for motors, &c. No. 1,316,824; Sept. 23; v. 266; p. 505.
- Bonneau, Peter M. (See Irvin and Bonneau.)
- Bonnell, Delbert H., Oakland, and A. R. Bouk, Santa Rosa, Calif. Hydrocarbon-burner. No. 1,320,599; Nov. 4; v. 268; p. 45.
- Bonnell, William A., Brooklyn, N. Y. Joint or coupling for electrical conduits. No. 1,313,456; Aug. 19; v. 265; p. 353.
- Bonner, Douglas E., New York, N. Y. Folding cover, top, awning, and the like. No. 1,308,392; July 1; v. 264; p. 71.
- Bonner, Douglas E., New York, N. Y. Folding top. No. 1,325,187; Dec. 16; v. 269; p. 477.
- Bonner, Joseph C., Toledo, Ohio. Transportation system. No. 1,323,574; Dec. 2; v. 269; p. 66.
- Bonner, Walter G., Pepperwood, Calif. Rack. No. 1,309,608; July 8; v. 264; p. 361.
- Bonnet, Charles E., Philadelphia, Pa., assignor, by mesne assignments, to The Bishop-Babcock-Becker Company, Cleveland, Ohio. Steam-trap. No. 1,320,831; Nov. 4; v. 268; p. 89.
- Bonnet, Joseph, Miles City, Mont. Toy. No. 1,309,838; July 15; v. 264; p. 403.
- Bonney-Floyd Company, The. (See Dorsey, Walter A., assignor.)
- Bonnifield, West B., Ottumwa, Iowa. Bed-supported table. No. 1,308,034; July 1; v. 264; p. 5.
- Bonom, Alfred, Paterson, N. J. Packing for turbines. No. 1,291,383; Jan. 14; v. 255; p. 350.
- Bonom, Alfred, Paterson, N. J. Reversible turbine. No. 1,313,058; Aug. 12; v. 265; p. 261.
- Bonsall, Charles D., and F. W. Wolff, assignors to P. H. Murphy Company, Parnassus, Pa. Metal carline. No. 1,315,756; Sept. 9; v. 266; p. 242.
- Bonsall, Charles D., and F. W. Wolff, assignors to P. H. Murphy Company, Parnassus, Pa. Metal carline. No. 1,315,757; Sept. 9; v. 266; p. 242.
- Bonsteel, Charles L., Moose Jaw, Saskatchewan, Canada. Aluminium-solder flux. No. 1,312,154; Aug. 5; v. 265; p. 57.
- Bonsteel, Charles L., Moose Jaw, Saskatchewan, Canada. Aluminium-solder. No. 1,323,520; Dec. 2; v. 269; p. 56.
- Bontempi Arithmo Corporation, The. (See Bontempi, Augustus, assignor.)
- Bontempi, Augustus, Coytesville, N. J., assignor to The Bontempi Arithmo Corporation, New York, N. Y. Calculating-machine. No. 1,302,501; May 6; v. 262; p. 5.
- Bontoft, Charles, Charters Towers, Queensland, Australia. Wheel. No. 1,294,228; Feb. 11; v. 259; p. 324.
- Bontrager, Joseph C., Wenatchee, Wash. Headlight-lamp-actuating mechanism. No. 1,310,387; July 15; v. 264; p. 503.
- Bontya, John, Trenton, N. J. Locomotive draft apparatus. No. 1,296,040; Mar. 4; v. 260; p. 51.
- Bonus, George Y., Chicago, Ill. Regenerative power system. No. 1,297,069; Mar. 11; v. 260; p. 319.
- Boobar, John J. (See Dunlop and Boobar.)
- Book, Harry L., Honolulu, Hawaii. Keyless lock. No. 1,297,991; Mar. 25; v. 260; p. 570.
- Booker, James P., assignor to The Nulomoline Company, New York, N. Y. Making cream centers for coated candy. No. 1,309,979; July 15; v. 264; p. 430.
- Booker, Warren H., Raleigh, N. C. Privy. No. 1,290,886; Jan. 14; v. 258; p. 235.
- Bookwalter, Albert E., Coeur d'Alene, Idaho. Electric furnace for smelting ores. No. 1,297,641; Mar. 18; v. 260; p. 469.
- Bookwalter, Charles S., and F. A. Daubin, Washington, D. C. Submarine signaling apparatus. No. 1,313,785; Aug. 19; v. 265; p. 415.
- Boone, Arthur L., Denver, Colo. Night-sight for firearms. No. 1,306,879; June 17; v. 263; p. 373.
- Boone, Charles C., Mackay, Idaho. Fish opener and scaler. No. 1,294,609; Feb. 18; v. 259; p. 447.
- Boone, Daniel. (See Woolwine, Ludy W., assignor.)
- Boone, Selden H., deceased, Chicago, Ill.; G. T. Kimmel, administrator. Arch-support. No. 1,320,364; Oct. 28; v. 267; p. 622.
- Boone, Wallie R., Whiteflat, Tex. Agricultural implement. No. 1,316,676; Sept. 23; v. 266; p. 478.
- Boor, Theodore A., Ashville, Ohio. Plow. No. 1,326,430; Dec. 30; v. 269; p. 763.
- Boos, Henry. (See Boos, Horace, O. J., and H.)
- Boos, Horace, O. J., and H., Los Angeles, Calif. Butter-cutter. No. 1,325,869; Dec. 23; v. 269; p. 621.
- Boos, Orlando J. (See Boos, Horace, O. J., and H.)
- Boos, Peter A., Oconomowoc, Wis. Door-controller. No. 1,318,349; Oct. 14; v. 267; p. 192.
- Booth, Alba C., Burlington, Vt. Name-plate for rubbers. No. 1,291,739; Jan. 21; v. 258; p. 465.
- Booth, Alba C., Burlington, Vt., assignor to Universal Brush Company, Troy, N. Y. Tooth-brush. (Reissue.) No. 14,589; Feb. 11; v. 259; p. 355.
- Booth, Dana E., Tulsa, Okla. Pressure device for vulcanizing rubber vehicle-tires. No. 1,294,865; Feb. 18; v. 259; p. 507.
- Booth, Dana E., Tulsa, Okla. Vulcanizing device. No. 1,317,124; Sept. 23; v. 266; p. 561.
- Booth, Ernest S., Muskegon Heights, Mich. Supporting device. No. 1,312,230; Aug. 5; v. 265; p. 71.
- Booth, Eugene T. (See Kilpatrick and Booth.)
- Booth, Frank E. (See Meakin and Booth.)
- Booth-Hall Company. (See Booth, William K., assignor.)
- Booth-Hall Company. (See Hall, Julius R., assignor.)
- Booth, Harvey B., assignor to A. Ramsay and Son Company, Montreal, Quebec, Canada. Cement. No. 1,321,085; Nov. 11; v. 268; p. 200.
- Booth, Robert B., assignor of one-half to J. J. Armstrong, Honolulu, Hawaii. Hose-coupling. No. 1,304,653; May 27; v. 262; p. 512.
- Booth, Wilfred E., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus unit. No. 1,324,792; Dec. 16; v. 269; p. 404.
- Booth, William K., assignor to Booth-Hall Company, Chicago, Ill. Electric furnace. No. 1,299,110; Apr. 1; v. 261; p. 113.
- Booth, William N., Detroit, Mich. Machine for assembling spoked wheels. No. 1,295,683; Feb. 25; v. 259; p. 718.
- Booth, William N., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Demountable-rim-securing device for vehicle-wheels. No. 1,299,903; Apr. 8; v. 261; p. 321.
- Booth, William N., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Vehicle-wheel rim. No. 1,317,478; Sept. 30; v. 266; p. 665.
- Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,325,347; Dec. 16; v. 269; p. 506.
- Boots, Hiram E., et al. (See Gilbert, Arthur, assignor.)
- Booz, Frank P. (See Bradley, Jacob A., assignor.)
- Bopst, Samuel P., Washington, D. C. Lumber-rule. No. 1,308,654; July 1; v. 264; p. 118.
- Borchardt, Walter O., Austinville, Va. Elevator. No. 1,297,992; Mar. 25; v. 260; p. 571.
- Borchardt, Walter O., Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y. Metallurgical furnace. No. 1,316,267; Sept. 16; v. 266; p. 352.
- Borchardt, Walter O., Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y. Flotation apparatus. No. 1,326,174; Dec. 30; v. 269; p. 713.
- Borchers, Edward C., Chicago, Ill. Article of manufacture and making same. No. 1,326,639; Dec. 30; v. 269; p. 801.
- Borchert, Fred L. (See Borchert, William and F. L.)
- Borchert, William and F. L., Rockford, Ill. Tag-affixing machine. No. 1,296,749; Mar. 11; v. 260; p. 246.
- Bordeaux, Ray L., Mount Vernon, N. Y. Pin-fastener. No. 1,316,413; Sept. 16; v. 266; p. 380.
- Borden Company, The. (See Bates, Albert H., assignor.)
- Borden Company, The. (See Bechtel, Milton W., assignor.)
- Borden Company, The. (See Nonneman, Ira W., assignor.)
- Borden, George W., and L. W. Owen, Steubenville, Ohio. Sectional flywheel. No. 1,325,778; Dec. 23; v. 269; p. 603.
- Borden, Moro M., Collingswood, N. J., assignor to Simplex Valve & Meter Company, Philadelphia, Pa. Fluid-meter. No. 1,296,041; Mar. 4; v. 260; p. 51.
- Borden, William H., Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Wire-reel for fastening-inserting machines. No. 1,294,384; Feb. 18; v. 259; p. 394.
- Borden, William H., Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-supplying mechanism. No. 1,321,186; Nov. 11; v. 268; p. 219.
- Borden's Condensed Milk Company. (See Campbell, Charles H., assignor.)
- Borden's Condensed Milk Company. (See Hopkins and Brunkhurst, assignors.)
- Borden's Condensed Milk Company. (See Rogers, James, assignor.)
- Borden's Condensed Milk Company. (See Taylor, Burt E., assignor.)
- Borders, Harry L., and C. A. Roehrig, assignors to Standard Corrugated Box Co., St. Louis, Mo. Lid-hinge for corrugated boxes. No. 1,316,078; Sept. 16; v. 266; p. 317.
- Bordo, Lambert J., Roslyn, Pa. Boiler-protecting device. No. 1,306,167; June 10; v. 263; p. 206.
- Bordson, Ole O., Cross Plains, Wis. Rail-clamp. No. 1,297,993; Mar. 25; v. 260; p. 571.
- Bore, Johan, and A. Skoglund, Gottenborg, assignors to A. Westerberg, Stockholm, Sweden. Steam cleansing apparatus, particularly for vertically-arranged smoke-tubes. No. 1,310,733; July 22; v. 264; p. 598.
- Borel, Joseph, Jeannerette, La. Projectile. No. 1,313,875; Aug. 26; v. 265; p. 465.
- Borel, Joseph L. A., and E. Grange, née Borel, Annecy, France. Machine for manufacturing press-buttons or the like. No. 1,298,165; Mar. 25; v. 260; p. 607.
- Borel, Joseph L. A., and E. Grange, née Borel, Annecy, France. Machine for inserting retaining-springs in the cap-like members of press-buttons or the like. No. 1,317,682; Oct. 7; v. 267; p. 4.



- Borger, Henry E., assignor to Splitdorf Electrical Company, Newark, N. J. Automatic cut-out for electric generators. No. 1,308,275; July 1; v. 264; p. 49.
- Borglin, Joseph, Seattle, Wash. Type-writer. No. 1,322,224; Nov. 18; v. 268; p. 466.
- Borglin, Joseph N., Seattle, Wash. Ship-launching device. No. 1,313,786; Aug. 19; v. 265; p. 415.
- Borgstrom, Carl A. (See Wickstrom and Borgstrom.)
- Borbauer, Lucien, assignor of one-half to J. H. Hirsch, Chicago, Ill. Bed. No. 1,323,229; Nov. 25; v. 268; p. 708.
- Borja, Philip M., New York, N. Y. Piano. No. 1,294,866; Feb. 18; v. 259; p. 508.
- Borkes, Francis W., Cleveland, Ohio. Fuel atomizing and heating device for internal-combustion engines. No. 1,320,528; Nov. 4; v. 268; p. 32.
- Borkes, Francis W., Cleveland, Ohio. Power-transmitting mechanism. No. 1,323,245; Dec. 2; v. 269; p. 4.
- Borkey, Stephen F., Flint, Mich. Axle-stretching machine. No. 1,299,292; Apr. 1; v. 261; p. 154.
- Borland, John A., St. Paul, Minn. Demountable rim for automobile-wheels. No. 1,297,316; Mar. 18; v. 260; p. 402.
- Borland, Lewis R., Merced Falls, Calif. Storm-sash fastener. No. 1,311,037; July 22; v. 264; p. 655.
- Born, Julius M., St. Paul, Minn. Counteracting device for pump-rods. No. 1,290,493; Jan. 7; v. 258; p. 116.
- Bornemann, Andrew A. (See Wolfe, Chauncey C., assignor.)
- Borsella, Anthony, New York, N. Y. Automatic control and aviator's comfort device. No. 1,316,079; Sept. 16; v. 266; p. 317.
- Borsse, Anton A., and G. Pirc, Sheboygan, Wis. Dirigible headlight. No. 1,296,261; Mar. 4; v. 260; p. 101.
- Borszcz, Peter, West Pullman, Ill., assignor of one-half to J. Dmitrasz, Laporte, Ind. Wire-cutter. No. 1,298,166; Mar. 25; v. 260; p. 607.
- Bort, Fred A., Hopkinton, Iowa. Wagon. No. 1,307,109; June 17; v. 263; p. 415.
- Borton, William E., Omaha, Nebr. Motor-vehicle-locking means. No. 1,305,519; June 3; v. 263; p. 54.
- Bortree, Seth, Ariel, Pa. Horseshoe-calk. No. 1,297,070; Mar. 11; v. 260; p. 319.
- Boryk, John, Ansonia, Conn. Combination-lock. No. 1,326,175; Dec. 30; v. 269; p. 714.
- Bosch, Carl. (See Neresheimer, Bosch, and Mittasch.)
- Bosch, Francisco P., Badalona, Spain. Rotary pump. No. 1,321,706; Nov. 11; v. 268; p. 318.
- Bosch, Ignace L., Huntington, W. Va. Artificial hand and harness therefor. No. 1,318,260; Oct. 7; v. 267; p. 115.
- Bosch, Pompein, Elgin, Ill. Boring-machine. No. 1,314,181; Aug. 28; v. 265; p. 524.
- Bosek, Frank J., Galetton, Pa. Emergency-brake. No. 1,304,254; May 20; v. 262; p. 396.
- Bosenbury, Joseph M., Peoria, Ill., assignor of one-half to C. O. Birney, Mount Healthy, Ohio. Straight-air one-man equipment. No. 1,297,437; Mar. 18; v. 260; p. 426.
- Boss, William, St. Paul, Minn. Metal roof-edging. No. 1,299,421; Apr. 8; v. 261; p. 211.
- Bosse, Christian. (See Armstrong, John J., assignor.)
- Bosserman, William P., Tangier, Okla. Adjustable detachable bail. No. 1,294,610; Feb. 18; v. 259; p. 447.
- Bossert, Charles P., Milwaukee, Wis. Machine for treating hides and the like. No. 1,300,920; Apr. 15; v. 261; p. 564.
- Bossert, Charles P., Milwaukee, Wis. Supply system for plastic materials. No. 1,309,179; July 8; v. 264; p. 244.
- Bossert, William F. (See Warring, Royal C., assignor.)
- Bossert, William F., Utica, N. Y. Apparatus for adjusting switch-points. No. 1,322,404; Nov. 18; v. 268; p. 500.
- Bossler, Robert B., Pittsburgh, Pa. Level-vial. No. 1,309,752; July 15; v. 264; p. 388.
- Bostedo, Louis, Los Angeles, Calif. Method and means for propelling craft navigating fluid mediums. No. 1,305,340; June 3; v. 263; p. 21.
- Bostick, Benjamin J. (See Hudson, William F., assignor.)
- Bostick, Levy R., New Orleans, La. Car-signal. No. 1,290,495; Jan. 7; v. 258; p. 116.
- Bostock, Francis J. (See Brown and Bostock.)
- Boston Blacking Company. (See Ordway, Joseph H., assignor.)
- Boston Machinery Company. (See Petersen, Anker, assignor.)
- Boston, Orlan W., and W. E. Patrick, Jr., Washington, D. C., assignors to the Government of the United States. Hydrostatic release mechanism. No. 1,294,327; Feb. 11; v. 259; p. 346.
- Boston Pencil Pointer Company. (See Wilson, Allen P., assignor.)
- Boston Pencil Pointer Company. (See Wilson, Robert A. and A. P., assignors.)
- Boston Pressed Metal Co. (See Needham, William H., assignor.)
- Boston Rubber Shoe Company. (See Clark, Myron H., assignor.)
- Boston Scale & Machine Company. (See Beckett, John R., assignor.)
- Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
- Boston Woven Hose & Rubber Co. (See Bierer, John M., assignor.)
- Botwick, Arthur B., St. Albans, Vt. Chair. No. 1,312,720; Aug. 12; v. 265; p. 194.
- Botwick, Grant W. (See Botwick, Robert W. and G. W.)
- Botwick, Robert W. and G. W., Detroit, Mich. Disappearing bed. No. 1,300,694; Apr. 15; v. 261; p. 516.
- Botwick, Robert W. and G. W., Detroit, Mich. Disappearing bed. No. 1,300,695; Apr. 15; v. 261; p. 516; Boswell, Fletcher O., Philadelphia, Pa. Automobile-lock. No. 1,302,502; May 6; v. 262; p. 5.
- Boswell, George G. F., Indianapolis, Ind. Shock-absorber. No. 1,323,820; Dec. 2; v. 269; p. 112.
- Boswell, Roscoe C., Washington, D. C. Combination-tool. No. 1,308,694; July 1; v. 264; p. 126.
- Boswell, Roy L., and H. E. Martin, Tate, Nebr. Partition and reinforcing member for shipping-cases. No. 1,306,796; June 17; v. 263; p. 357.
- Bosworth, George P., Central Falls, assignor to Hemphill Manufacturing Co., Pawtucket, R. I. Stocking-knitting machine, antiraveling. No. 1,296,750; Mar. 11; v. 260; p. 247.
- Bosworth, Wendell P., assignor, by mesne assignments, to Brockton Heel Company, Inc., Brockton, Mass. Apparatus for building heel-logs. No. 1,315,461; Sept. 9; v. 266; p. 191.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Insulating switch-shell. No. 1,320,529; Nov. 4; v. 268; p. 32.
- Botje, Elko, Soerabaya, Java, Dutch East Indies. Apparatus for gathering stalks, more especially sugarcane. No. 1,317,542; Sept. 30; v. 266; p. 677.
- Botkin, Millard F., Kansas City, Mo. Extensible wagon-bed. No. 1,293,679; Feb. 11; v. 259; p. 194.
- Botsford, Walter C., Eltopia, Wash. Agricultural tractor. No. 1,302,295; Apr. 29; v. 261; p. 900.
- Bott, Orlando W., Shreve, Ohio. Folding umbrella. No. 1,304,016; May 20; v. 262; p. 352.
- Bottin, Georges. (See Durand and Bottin.)
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales-book. No. 1,294,385; Feb. 18; v. 259; p. 395.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales-book. No. 1,295,104; Feb. 25; v. 259; p. 585.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales-book. No. 1,295,105; Feb. 25; v. 259; p. 585.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales-book. No. 1,295,264; Feb. 25; v. 259; p. 621.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales-book. No. 1,305,056; May 27; v. 262; p. 587.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Writing-desk. No. 1,317,423; Sept. 30; v. 266; p. 654.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales-book. No. 1,324,333; Dec. 9; v. 269; p. 253.
- Bottom, R. C., et al. (See May, Jesse A., assignor.)
- Botts, John, Lane, Kans. Washing-machine. No. 1,297,071; Mar. 11; v. 260; p. 320.
- Boucard, Pierre, Paris, and L. Lemaire, La Garenne-Colombes, France. Apparatus for enlarging photographs. No. 1,310,052; July 15; v. 264; p. 442.
- Bouchard, William L. (See Petty and Bouchard.)
- Bouchardon, Victor, Paris, France. Sender for Hertzian waves utilizing polyphase generators. No. 1,302,129; Apr. 29; v. 261; p. 869.
- Bouché, William F., Buffalo, N. Y., assignor to Gould Coupler Company. Dynamo-mounting. No. 1,324,029; Dec. 9; v. 269; p. 196.
- Bouché, William F., Buffalo, and C. Hartmann, Lancaster, N. Y., assignors to Gould Coupler Company. Electric regulator. No. 1,307,845; June 24; v. 263; p. 582.
- Boucher, Donat J., New Haven, Conn. Cutting-tool. No. 1,323,736; Dec. 2; v. 269; p. 96.
- Bouchet, Marie L., Roselle, N. J. Macaroni and the like food product. No. 1,299,819; Apr. 8; v. 261; p. 302.
- Boughton, Fred W., Aurora, Ill. Slide-up turnover door. No. 1,316,677; Sept. 23; v. 266; p. 479.
- Boughton, John W., Philadelphia, Pa. Airship. No. 1,304,654; May 27; v. 262; p. 512.
- Boughton, Walter J., Thetford, Norfolk, assignor to P. G. Blake, London, England. Supplementary carburetor for facilitating the starting of internal-combustion engines. No. 1,298,445; Mar. 25; v. 260; p. 667.
- Bouk, Alva R. (See Bonnell and Bouk.)
- Boulais, Wilfrid, Ipswich, Mass. Tractor. No. 1,291,740; Jan. 21; v. 258; p. 465.



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- Boulanger, Anthony D., Jr., Ridgefield Park, N. J. Leather-working machine. No. 1,311,749; July 29, v. 264; p. 820.
- Boulanger, Ernest J. A., Colombes, France. Artificial leg. No. 1,317,543; Sept. 30; v. 266; p. 677.
- Boulet, Joseph, Standish, Me. Micrometer-indicator No. 1,303,245; May 13; v. 262; p. 174.
- Bouley, Arthur G., Boston, Mass. Tool. No. 1,297,072; Mar. 11; v. 260; p. 320.
- Boult, Frank M., Osterville, Mass. Saw-jointer. No. 1,307,234; June 17; v. 263; p. 437.
- Boulter, Royal L., Los Angeles, Cal. Razor-blade holder. No. 1,293,319; Feb. 4; v. 259; p. 81.
- Boulton & Paul Limited. (See North, John D., assignor.)
- Boulton, William W. (See McClure, Reeves, and Boulton.)
- Boulton, William W. (See McClure, Stevens, and Boulton.)
- Bound Brook Oil-Less Bearing Company. (See Hickman, Francis, assignor.)
- Bound Brook Oil-Less Bearing Company. (See Holt, Clarence T., assignor.)
- Bound Brook Oil-Less Bearing Company. (See Smalley, George O., assignor.)
- Bounmeester, Bernard J. (See Owen and Bounmeester.)
- Bouquin, Joseph, New York, N. Y. Mixer and beater. No. 1,295,684; Feb. 25; v. 259; p. 719.
- Bourcart, Emmanuel A., assignor, by mesne assignments, to Campagne Nationale de Matieres Colorantes et de Produits Chimiques, Paris, France. Manufacture of indoxyl, its homologues and their derivatives. No. 1,293,680; Feb. 11; v. 259; p. 194.
- Bourdon, Allen P. and L. R., assignors to Woodstock Manufacturing Company, Woodstock, Vt. Merry-ground. No. 1,313,668; Aug. 19; v. 265; p. 393.
- Bourdon, Leo R. (See Bourdon, Allen P. and L. R.)
- Bourdunis, Constantin, assignor of one-third to C. Bourdunis, Chicago, Ill. Shoe-shining stand. No. 1,325,978; Dec. 23; v. 269; p. 640.
- Bourgeois, Lewis P., Jr., Gramercy, La. Hook-and-eye safety-lock. No. 1,325,433; Dec. 16; v. 269; p. 522.
- Bourguignon, Jules. (See Gammeter and Bourguignon.)
- Bournonville, Eugene M., Jersey City, N. J. Rotary internal-combustion-engine valve. No. 1,293,681; Feb. 11; v. 259; p. 195.
- Bournonville, Joseph M., et al. (See Lamar, Alexis L., assignor.)
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Turn-button fastener. No. 1,292,424; Jan. 28; v. 258; p. 654.
- Bourque, David, Amesbury, assignor to G. W. J. Murphy Co., Merrimac, Mass. Stud-and-socket fastener. No. 1,292,574; Jan. 28; v. 258; p. 691.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Stud-and-socket fastener. No. 1,300,337; Apr. 15; v. 261; p. 441.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Socket for fasteners. No. 1,300,338; Apr. 15; v. 261; p. 441.
- Bourque, David, assignor to G. W. J. Murphy Co., Amesbury, Mass. Separable fastener. No. 1,302,628; May 6; v. 262; p. 28.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Socket for fasteners. No. 1,305,520; June 3; v. 263; p. 55.
- Bourque, David, Amesbury, assignor to G. W. J. Murphy Company, Merrimac, Mass. Machine for producing spring-carrying pins. No. 1,309,011; July 8; v. 264; p. 213.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Separable fastener. No. 1,320,832; Nov. 4; v. 268; p. 89.
- Bourque, David, assignor to G. W. J. Murphy Co., Amesbury, Mass. Stud-and-socket fastener. No. 1,321,974; Nov. 18; v. 268; p. 419.
- Bousefield, John H. A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale construction. No. 1,316,678; Sept. 23; v. 266; p. 479.
- Bousfield, Charlie J., assignor to Delphoon Company, Bay City, Mich. Talking-machine cabinet. No. 1,291,741; Jan. 21; v. 258; p. 465.
- Bousfield, Charlie J., assignor to The Delphoon Company, Bay City, Mich. Sound-control mechanism for talking-machines. No. 1,295,083; Feb. 18; v. 259; p. 556.
- Bousfield, John H. A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Track-scale. No. 1,313,577; Aug. 19; v. 265; p. 376.
- Bouson, Herbert H., U. S. Navy, assignor to the United States of America. Automobile torpedo. No. 1,304,255; May 20; v. 262; p. 396.
- Bousquet, Joseph M., Middlesex, Vt. Door-closer. No. 1,326,841; Dec. 30; v. 269; p. 840.
- Bousquet, William J., Springfield, Mass. Slide for rules. No. 1,291,742; Jan. 21; v. 258; p. 465.
- Bousquet, William J., Springfield, Mass. Guide and holder for flexible rules. No. 1,312,887; Aug. 12; v. 265; p. 227.
- Bousson, René A., Paris, France. Process and means for connecting cables or wires. No. 1,318,961; Oct. 14; v. 267; p. 310.
- Bouteille, Joseph, Paris, France. Internal-combustion engine. No. 1,301,807; Apr. 29; v. 261; p. 808.
- Bouteille, Joseph, Neuilly-sur-Seine, France. Carburetor for internal-combustion engines. No. 1,303,761; May 13; v. 262; p. 267.
- Boutelle, William H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,296,159; Mar. 4; v. 260; p. 79.
- Boutelle, William H. Sturbridge, assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,318,836; Oct. 14; v. 267; p. 285.
- Boutet, Robert, assignor to La Societe Francaise des Glycerines, Paris, France. Apparatus for distilling glycerin. No. 1,306,944; June 17; v. 263; p. 383.
- Boutet, Robert, assignor to La Societe Francaise des Glycerines, Paris, France. Distillation of glycerin. No. 1,318,533; Oct. 14; v. 267; p. 228.
- Bouton, George L., assignor to Murphy Iron Works, Detroit, Mich. Roasting construction for furnace-grates. No. 1,290,887; Jan. 14; v. 258; p. 235.
- Bouton, Georges, Paris, France, assignor to Etablissements De Dion Bouton, Société Anonyme, Puteaux, France. Speed-reducing gear. No. 1,311,310; July 29; v. 264; p. 738.
- Bouvier, Adolphe. (See Nadeau and Bouvier.)
- Bouwmeester, Bernard J., assignor to Bissell Carpet Sweeper Co., Grand Rapids, Mich. Pitman. No. 1,291,743; Jan. 21; v. 258; p. 465.
- Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Clamping mechanism. No. 1,296,470; Mar. 4; v. 260; p. 145.
- Bovee, Ransom Y., Maywood, Ill., assignor to American Can Company, New York, N. Y. Holder for rolls of toilet-paper. No. 1,322,524; Nov. 25; v. 268; p. 574.
- Bovier, Archie M., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold-book. No. 1,293,011; Feb. 4; v. 259; p. 10.
- Böving, Henrik, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical protective device. No. 1,324,334; Dec. 9; v. 269; p. 254.
- Bovio, Vincent, Flushing, N. Y. Hat and making same. No. 1,303,246; May 13; v. 262; p. 175.
- Bovy, Albert, Berchem-St.-Agathe, Belgium. Folding box. No. 1,324,873; Dec. 16; v. 269; p. 418.
- Bowan, James F. (See La Rocco, Michael, assignor.)
- Bowden, Junius A., Los Angeles, Cal. Air-locking means for automobiles. No. 1,294,328; Feb. 11; v. 259; p. 347.
- Bowden, Junius A., Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, New York, N. Y. Pressure-gage. No. 1,306,245; June 10; v. 263; p. 224.
- Bowden, Junius A., Los Angeles, Calif., assignor to A. Schrader's Son, Incorporated, New York, N. Y. Pressure-gage. No. 1,319,138; Oct. 21; v. 267; p. 368.
- Bowden, William, Manchester, England. Liquid-meter. No. 1,312,095; Aug. 5; v. 265; p. 46.
- Bowden, William, Manchester, England. Liquid-meter. No. 1,312,231; Aug. 5; v. 265; p. 71.
- Bowden Wire Limited. (See Sentinella, Arthur E., assignor.)
- Bowe, James H., New York, N. Y. Violin-string. No. 1,300,112; Apr. 8; v. 261; p. 366.
- Bowen, Adna G., Medina, N. Y. Differential gearing. No. 1,320,979; Nov. 4; v. 268; p. 117.
- Bowen, Charles, assignor of one-third to A. G. Niebergall and one-third to F. Gaskins, Fort Wayne, Ind. Bumper for automobiles. No. 1,323,233; Nov. 25; v. 268; p. 709.
- Bowen, David M., Los Angeles, Calif. Radiator. No. 1,311,797; July 29; v. 264; p. 829.
- Bowen, Grover C., Coffeyville, Kans. Heater for oil-tanks. No. 1,324,380; Dec. 9; v. 269; p. 263.
- Bowen, Henry E., Milton, Okla. Wrench. No. 1,326,387; Dec. 30; v. 269; p. 753.
- Bowen, James, assignor to Bond Foundry & Machine Company, Manheim, Pa. Friction-clutch. No. 1,309,996; July 15; v. 264; p. 433.
- Bowen, John M., Troy, N. Y. Smoking-pipe. No. 1,295,419; Feb. 25; v. 259; p. 657.
- Bowen, Philip A., assignor to L. A. Little, Lynn, Mass. Sewing-machine. No. 1,306,994; June 17; v. 263; p. 393.
- Bowen, Russell H., assignor to The American Pulley Company, Philadelphia, Pa. Metal pulley and manufacture thereof. No. 1,308,035; July 1; v. 264; p. 5.
- Bower, Clarence E., Denver, Colo. Rotary addressing and duplicating machine. No. 1,317,683; Oct. 7; v. 267; p. 5.
- Bower, Frank W., Fowler, Ind. Trailer. No. 1,314,498; Sept. 2; v. 266; p. 4.
- Bower, Harry A., Boston, Mass. Drum. No. 1,326,842; Dec. 30; v. 269; p. 840.
- Bower, Lemon D., and S. B. Elder, Warsaw, Ohio. Collapsible core structure. No. 1,299,542; Apr. 8; v. 261; p. 238.
- Bower, Thomas H., Richmond, Va. Journal-bearing. No. 1,297,073; Mar. 11; v. 260; p. 320.
- Bowers, Anna E. (See Bowers, John W. and A. E.)
- Bowers Arms and Munitions Company. (See Bowers, Thomas A., assignor.)
- Bowers, Benton W., Easton, Pa. Welding-electrode. No. 1,296,358; Mar. 4; v. 260; p. 123.
- Bowers Can Seal Company The. (See Bowers, John C., assignor.)



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- Bowers, Charles L., assignor to D. M. Wright, Hartford, Conn. Dying-machine. No. 1,322,525; Nov. 25; v. 268; p. 574.
- Bowers, Ernest C., assignor to E. Cook, Kalamazoo, Mich. Tank-filler. No. 1,324,995; Dec. 16; v. 269; p. 440.
- Bowers, Frank E., Indianapolis, Ind. Colony-brooder. No. 1,304,446; May 20; v. 262; p. 434.
- Bowers, Frederick U., San Francisco, Cal. Artificial denture. No. 1,293,627; Feb. 4; v. 259; p. 152.
- Bowers, George W., Somerville, Mass. Plural-record phonograph. No. 1,326,473; Dec. 30; v. 269; p. 770.
- Bowers, John C., assignor to The Bowers Can Seal Company, Boston, Mass. Can-sealing machine. No. 1,306,168; June 10; v. 263; p. 207.
- Bowers, John W. and A. E., Quakertown, Pa. Toasting device. No. 1,300,565; Apr. 15; v. 261; p. 490.
- Bowers, Lee, Sherburne, N. Y. Heel-calk for horseshoes. No. 1,315,080; Sept. 2; v. 266; p. 111.
- Bowers, Marvin O., Success, Saskatchewan, Canada. Automobile-signal. No. 1,302,130; Apr. 29; v. 261; p. 869.
- Bowers, Robert R. (See Clausen and Bowers.)
- Bowers, Robert R., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Kafir-corn header. No. 1,321,805; Nov. 18; v. 268; p. 388.
- Bowers, Thomas A., Brookline, Mass. Armor-piercing projectile. No. 1,294,329; Feb. 11; v. 259; p. 347.
- Bowers, Thomas A., Auburn, R. I., assignor to Bowers Arms and Munitions Company, Boston, Mass. Tubular projectile. No. 1,292,388; Jan. 21; v. 258; p. 624.
- Bowers, Thomas L., assignor of one-half to J. S. Collins, Miami, Fla. Shipping-crate. No. 1,309,932; July 15; v. 264; p. 421.
- Bowery, Ernest, Oil Center, Calif. Oil-well-pump shoe. No. 1,312,825; Aug. 12; v. 265; p. 216.
- Bowes, John J., Jr., Pensacola, Fla. Hot-water and ice bag closure or stopper. No. 1,292,690; Jan. 28; v. 258; p. 719.
- Bowie, Augustus J., Jr., *et al.* (See Jewett, John C and W. A., assignors.)
- Bowler, Bartholomew, Toronto, Ontario, Canada. Artificial hand. No. 1,299,543; Apr. 8; v. 261; p. 239.
- Bowler, Bartholomew, Toronto, Ontario, Canada. Artificial hand. No. 1,301,367; Apr. 22; v. 261; p. 694.
- Bowler, Bartholomew, Toronto, Ontario, Canada. Artificial leg. No. 1,323,444; Dec. 2; v. 269; p. 42.
- Bowles, Philip E., Jr. (See McNear and Bowles.)
- Bowles, Richard, Stroudsburg, Pa. Clutch-operating mechanism for hoisting-drums. No. 1,292,691; Jan. 28; v. 258; p. 710.
- Bowles, Wesley S., Cedar Creek, Mo. Well-bucket. No. 1,299,544; Apr. 8; v. 261; p. 239.
- Bowles, William M., Shawnee, assignor to International Crude Oil Storage Company, Inc., Sapulpa, Okla. Safety-vent for oil-storage tanks. No. 1,298,872; Apr. 1; v. 261; p. 58.
- Bowling, Enoch B., Chicago, Ill. Resilient automobile-fender. No. 1,306,742; June 17; v. 263; p. 347.
- Bowling, Joseph R., St. Louis, Mo. Tractor. No. 1,297,291; Mar. 11; v. 260; p. 367.
- Bowlzer, Daniel H., assignor to Glauber Brass Manufacturing Company, Cleveland, Ohio. Slip-joint. No. 1,295,106; Feb. 25; v. 259; p. 585.
- Bowlzer, Daniel H., and A. I. Fischer, Cleveland, Ohio, assignors to Glauber Brass Manufacturing Company. Self-contained drinking-fountain. No. 1,324,142; Dec. 9; v. 269; p. 217.
- Bowman, Abe, Long Beach, Calif. Transmission mechanism. No. 1,312,609; Aug. 12; v. 265; p. 174.
- Bowman, Abe, Long Beach, Calif. Wrench. No. 1,321,005; Nov. 4; v. 268; p. 122.
- Bowman, Arthur E. (See Standley and Bowman.)
- Bowman, Charles E. (See Urton, Earl W., assignor.)
- Bowman, Cyrus S., Omaha, Nebr. Hoist. No. 1,307,954; June 24; v. 263; p. 602.
- Bowman, Edwin J., assignor of one-third to P. W. Wade, Birmingham, England. Radiator. No. 1,311,549; July 29; v. 264; p. 784.
- Bowman, Frederic C., assignor to General Chemical Company, New York, N. Y. Producing sodium fluorid. No. 1,324,030; Dec. 9; v. 269; p. 196.
- Bowman, George. (See Graham and Bowman.)
- Bowman, George W., assignor to The Universal Spring Wheel and Manufacturing Company, Palisades, Colo. Spring-wheel. No. 1,309,839; July 15; v. 264; p. 404.
- Bowman, Harry D., East Orange, N. J. Feeding apparatus for weighing-machines. No. 1,295,959; Mar. 4; v. 260; p. 32.
- Bowman, Harry D., East Orange, N. J. Filling fuse-containers for powder-bags. No. 1,298,167; Mar. 25; v. 260; p. 608.
- Bowman, Herman N., assignor to Western Electric Company, Incorporated, New York, N. Y. Transformer. No. 1,320,980; Nov. 4; v. 268; p. 117.
- Bowman, James C., *et al.* (See Guilford, Frank A., assignor.)
- Bowman, Josephine, near Irvington, Va. Washboiler. No. 1,310,734; July 22; v. 264; p. 598.
- Bowman, Karl G. (See Carlson and Boman.)
- Bowman, Levi M., assignor of one-half to W. A. Smith, Tulsa, Okla. Direction-indicator for motor-vehicles. No. 1,302,296; Apr. 29; v. 261; p. 900.
- Bowman, Levi M., assignor of one-half to W. A. Smith, Tulsa, Okla. Hydrocarbon-burner. No. 1,304,848; May 27; v. 262; p. 548.
- Bowman, Mark K., Montclair, N. J. Apparatus for cleaning boiler-tubes. No. 1,325,348; Dec. 16; v. 269; p. 507.
- Bowman, Nathan W., Durand, Wis. Current-motor. No. 1,313,457; Aug. 19; v. 265; p. 353.
- Bowman, Newton K., Canton, Ohio. Section-insulator and hand-switch. No. 1,309,717; July 15; v. 264; p. 381.
- Bowman, Newton K., Canton, Ohio, assignor to The American Mine Door Company. Cable-splice. No. 1,304,534; May 27; v. 262; p. 490.
- Bowman, Newton K., North Lawrence, Ohio, assignor to The American Mine Door Company. Wall-anchor. No. 1,311,038; July 22; v. 264; p. 655.
- Bowman, Newton K., Canton, Ohio, assignor to The American Mine Door Company. Trolley-frog. No. 1,318,476; Oct. 14; v. 267; p. 217.
- Bowman, Roy L., Toledo, Ohio. Mechanical toy. No. 1,323,002; Nov. 25; v. 268; p. 664.
- Bowman, Roy L., Toledo, Ohio. Automatic bowling toy. No. 1,323,003; Nov. 25; v. 268; p. 664.
- Bowman, Samuel W., New York, N. Y. Loose-leaf tray. No. 1,314,944; Sept. 2; v. 266; p. 86.
- Bowman, Thomas B., New York, N. Y., assignor to Anchor Company, Chicago, Ill. Rail-anchor. No. 1,302,503; May 6; v. 262; p. 5.
- Bowman, Veezey E., McKees Rocks, Pa. Nippers. No. 1,317,424; Sept. 30; v. 266; p. 654.
- Bowman, Wade W., New York, N. Y. Demountable rim. No. 1,301,033; Apr. 15; v. 261; p. 589.
- Bowman, William J., Chico, Calif. Fuel-supply valve for carburetors. No. 1,299,904; Apr. 8; v. 261; p. 321.
- Bown, Charles E. (See Klems, Albert A., assignor.)
- Bown, David E., Pittsburgh, Pa. Fuse-plug. No. 1,298,654; Apr. 1; v. 261; p. 7.
- Bown, David E., Crafton, Pa. Fixture-insulator. No. 1,320,731; Nov. 4; v. 263; p. 69.
- Bowser, Allen A., Fort Wayne, Ind. Inclosing casing. No. 1,306,743; June 17; v. 263; p. 347.
- Bowser, Allen A., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Motor for liquid-meters. No. 1,294,760; Feb. 18; v. 259; p. 483.
- Bowser, Augustus, Fort Wayne, Ind. Controlling mechanism for liquid-dispensers. No. 1,310,822; July 22; v. 264; p. 615.
- Bowser, Augustus, Fort Wayne, Ind. Liquid-dispensing apparatus. No. 1,316,557; Sept. 23; v. 266; p. 456.
- Boyajian, Eleanor, *et al.* (See Gray, Clinton, assignor.)
- Boyajian, Munje K., *et al.* (See Gray, Clinton, assignor.)
- Boyce, Harrison H., Forest Hills, N. Y. Means for indicating the condition of internal-combustion engines. No. 1,311,152; July 29; v. 264; p. 709.
- Boyce, Harrison H., Forest Hills, N. Y. Means for illuminating indicating instruments. No. 1,311,153; July 29; v. 264; p. 709.
- Boyce, Harrison H., Forest Hills, N. Y. Mounting for temperature-responsive elements. No. 1,326,176; Dec. 30; v. 269; p. 714.
- Boyce, James, Chicago, Ill., assignor to American Cotton Oil Company, Gutfenberg, N. J. Hydrogenation of fatty substances. No. 1,291,384; Jan. 14; v. 258; p. 350.
- Boyce, Marcus S., Hagerman, N. Mex. Internal-combustion engine. No. 1,323,445; Dec. 2; v. 269; p. 42.
- Boyd, Arthur, West Hartlepool, England. Mechanism for propelling vehicles. No. 1,323,004; Nov. 25; v. 268; p. 664.
- Boyd, Blanton M., assignor to The Globe Autographic Register Company, Cincinnati, Ohio. Manifolding device for type-writers. No. 1,291,385; Jan. 14; v. 258; p. 350.
- Boyd, Florence E., Lenoir, N. C. Fruit and vegetable drier. No. 1,308,036; July 1; v. 264; p. 6.
- Boyd, Fred C., and C. F. Littlejohn, assignors to The Faraday Co., New Haven, Conn. Hydrocarbon-burner. No. 1,294,028; Feb. 11; v. 259; p. 277.
- Boyd, Freddie J., Gary, Ind. Bed. No. 1,298,873; Apr. 1; v. 261; p. 59.
- Boyd, Hugh T. (See Burke, Boyd, Biddison, and Zink.)
- Boyd, Hugh T. (See Oberfell and Boyd.)
- Boyd, Hugh T., Homer, Ohio, assignor to The Ohio Fuel Supply Company, Pittsburgh, Pa. Continuous two-phase chlorination. No. 1,293,012; Feb. 4; v. 259; p. 10.
- Boyd, John H., Mount Vernon, N. Y. Vacuum-bonnet. No. 1,298,446; Mar. 25; v. 260; p. 667.
- Boyd, Joseph, Glenbur, Ireland. Puttee and making the same. No. 1,307,235; June 17; v. 263; p. 437.
- Boyd, Peter, Beaver, and A. M. Saunders, McKeesport, assignors to National Tube Company, Pittsburgh, Pa. Forming coupling ends on drill-tube sections. No. 1,325,073; Dec. 16; v. 269; p. 455.
- Boyd, Poetta T., Eldorado, Kans. Fishing-tool. No. 1,326,566; Dec. 30; v. 269; p. 788.
- Boyd, Samuel A., Sasakwa, Okla. Rail-joint. No. 1,299,545; Apr. 8; v. 261; p. 230.

## Alphabetical list of patentees—Continued.

- Boyd, William P., Cambridge, Mass. Gear-shifting mechanism for automobiles and the like. No. 1,309,680; July 15; v. 264; p. 375.
- Boyd, William W., assignor to Buffalo Scale Company, Buffalo, N. Y. Scale. No. 1,325,188; Dec. 16; v. 269; p. 477.
- Boyd, Wyatt, Akron, Ohio. Gas-engine. No. 1,290,496; Jan. 7; v. 258; p. 116.
- Boyde, Harry A., Savannah, Ga. Braking means. No. 1,320,981; Nov. 4; v. 268; p. 117.
- Boye, James H., Chicago, Ill. Curtain-hanger. No. 1,301,368; Apr. 22; v. 261; p. 694.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Commodity-cabinet. No. 1,294,761; Feb. 18; v. 259; p. 483.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Adjustable sash-curtain support. No. 1,298,286; Mar. 25; v. 260; p. 634.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Stair-carpet fastener. No. 1,299,546; Apr. 8; v. 261; p. 239.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-rod. No. 1,309,060; July 8; v. 264; p. 223.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-fixture. No. 1,309,348; July 8; v. 264; p. 275.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-rod. No. 1,310,469; July 22; v. 264; p. 549.
- Boye, Lawrence F., Chester, Pa. Bobbin-stripping machine. No. 1,319,202; Oct. 21; v. 267; p. 381.
- Boye Needle Company, The. (See Carlson, Gustaf A., assignor.)
- Boye Needle Company, The. (See Flannery, John L., Jr., assignor.)
- Boyea, Ovilla W., Barre, Vt. Aeroplane. No. 1,290,111; Apr. 1; v. 261; p. 113.
- Boyea, Ovilla W., Barre, Vt. Propeller for airplanes. No. 1,317,125; Sept. 23; v. 266; p. 562.
- Boyer, Harrison D., Fernrock, Pa., assignor to Boyer Manufacturing Company, S. S. Iszard, receiver, Woodbury, N. J. Lubricator. No. 1,292,692; Jan. 28; v. 258; p. 720.
- Boyer, Harrison D., Fernrock, assignor, by mesne assignments, to L. W. Riddle, Glen Riddle, Pa. Lubricator. No. 1,304,535; May 27; v. 262; p. 490.
- Boyer, Harrison D., Philadelphia, assignor, by mesne assignments, to L. W. Riddle, Glen Riddle, Pa. Lubricator. No. 1,304,536; May 27; v. 262; p. 490.
- Boyer, Harrison D., Philadelphia, assignor, by mesne assignments, to L. W. Riddle, Glen Riddle, Pa. Grease-cup. No. 1,304,537; May 27; v. 262; p. 491.
- Boyer, Harry L., Trenton, N. J. Apparatus for applying ribs to storage-battery separators. No. 1,297,642; Mar. 18; v. 260; p. 469.
- Boyer, Harry L., Trenton, N. J. Applying ribs to storage-battery separators. No. 1,297,643; Mar. 18; v. 260; p. 470.
- Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Apparatus for forming storage-battery separators. No. 1,297,644; Mar. 18; v. 260; p. 470.
- Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Forming storage-battery separators. No. 1,297,645; Mar. 18; v. 260; p. 470.
- Boyer, Harvey L., Philadelphia, Pa. Camera. No. 1,305,585; June 3; v. 263; p. 68.
- Boyer, James F. (See Frazier, Orville Z., assignor.)
- Boyer, Joseph A., and H. E. Bryant, Jacksonville, Fla. Turpentine-distilling apparatus. No. 1,312,826; Aug. 12; v. 265; p. 216.
- Boyer, Linus E., Trojan, S. D. Guard. No. 1,307,722; June 24; v. 263; p. 559.
- Boyer Manufacturing Company. (See Boyer, Harrison D., assignor.)
- Boyer, Oram A., Milwaukee, Wis. Resilient wheel. No. 1,291,744; Jan. 21; v. 258; p. 466.
- Boyer, Orin N., Ontario, Oreg. Citrus-fruit-slicing machine. No. 1,302,002; Apr. 29; v. 261; p. 845.
- Boyer, William W. E., Oklahoma, Okla. Drinking-cup. No. 1,297,994; Mar. 25; v. 260; p. 571.
- Boykin, Burwell, Jr., Beaumont, Tex. Casting chilled valve-seats. No. 1,296,751; Mar. 11; v. 260; p. 247.
- Boyle, Charles W., Pittsburgh, Pa. Insect-trap. No. 1,312,096; Aug. 5; v. 265; p. 46.
- Boyle, Homer L., assignor of one-half to S. H. Davis, Lansing, Mich. Vacuum-cleaner. No. 1,299,547; Apr. 8; v. 261; p. 239.
- Boyle, Homer L., assignor of one-third to M. H. Smith, Lansing, Mich. Carpet-sweeper. No. 1,319,836; Oct. 28; v. 267; p. 524.
- Boyle, John H., New Haven, Conn. Clock-winding mechanism. No. 1,300,113; Apr. 8; v. 261; p. 366.
- Boyle, John L., Boston, Mass. Combined talking-machine and stereopicon. No. 1,313,190; Aug. 12; v. No. 1,314,042; Aug. 26; v. 265; p. 498.
- Boyle, John L., Boston, Mass. Combined talking and picture-exhibiting machine. No. 1,313,214; Aug. 12; v. 265; p. 292.
- Boyle, Louis M., Los Angeles, Calif. Vehicle-carrier. No. 1,320,833; Nov. 4; v. 268; p. 89.
- Boyle, Thomas H., Pawtucket, R. I. Lock-joint for structures. No. 1,320,982; Nov. 4; v. 268; p. 118.
- Boyle, William M., Kansas City, Mo., assignor to W. M. Boyle Manufacturing Company. Coating device. No. 1,308,886; July 8; v. 264; p. 189.
- Boyle, William P., Chicopee, Mass. Combination-burner. No. 1,293,682; Feb. 11; v. 259; p. 195.
- Boyle, Willis J., et al. (See Dayton and Edwards, assignors.)
- Boyle, Willis J., Sr., Los Angeles, Calif. Container. (Re-issue.) No. 14,695; July 29; v. 264; p. 841.
- Boyer, Emanuel J. (See Puter and Boyler.)
- Boyer, Emanuel J., New Haven, Conn., assignor to Duplex Snap Fastener Co. Inc. Separable fastener. No. 1,313,458; Aug. 19; v. 265; p. 353.
- Boyles, Charles H., Seattle, Wash. Anchor. No. 1,316,348; Sept. 16; v. 266; p. 367.
- Boyles, Frank M., assignor to McCormick & Co., Baltimore, Md. Oleoresin paste and making same. No. 1,324,538; Dec. 9; v. 269; p. 294.
- Boyn, Helen W., Brooklyn, N. Y. Fastening device. No. 1,323,150; Nov. 25; v. 268; p. 691.
- Boynton, Alexander, U. S. Army. Pneumatic trigger-pull for firearms. No. 1,297,535; Mar. 18; v. 260; p. 447.
- Boynton, Earl S., East Orange, N. J., and A. Schachat, Brooklyn, N. Y., assignors to Slocum, Avram & Slocum Laboratories, Inc., New York, N. Y. Gage. No. 1,310,388; July 15; v. 264; p. 503.
- Boynton, John W., assignor to The L. S. Starrett Company, Athol, Mass. Hack-saw-machine. No. 1,290,497; Jan. 7; v. 258; p. 117.
- Boys, Charles V., Westminster, London, England. Motor-vehicle wheel. No. 1,326,437; Dec. 30; v. 269; p. 763.
- Boysen, Albert H., Buffalo, N. Y. Sardine or other can cover. No. 1,302,297; Apr. 29; v. 261; p. 900.
- Boysls, Cecil H., assignor of one-fourth to A. A. Myers and one-fourth to M. A. Myers, Louisville, Ky. Garment-former. No. 1,310,602; July 22; v. 264; p. 574.
- Bozart Rug Company. (See Stevenson, William M., assignor.)
- Bozarth, William H., Vineland, N. J. Hydrocarbon multiple burner. No. 1,315,812; Sept. 9; v. 266; p. 252.
- Bozek, Albert. (See Doolan and Bozek.)
- Bozek, Albert, Gebo, Wyo. Beet-planter. No. 1,295,845; Mar. 4; v. 260; p. 6.
- Bozeman, John W., Baltimore, Md. Flush-tank bulb. No. 1,313,161; Aug. 12; v. 265; p. 282.
- Bozie, Joseph, Johnstown, Pa. Coin-separator. No. 1,304,937; May 27; v. 262; p. 564.
- Bozzola, Giovanni, Philadelphia, Pa. Shoe-polishing machine. No. 1,304,447; May 20; v. 262; p. 434.
- Brabandt, Max H., Paris, Tex. Plow. No. 1,303,813; May 13; v. 262; p. 277.
- Brace, Louis, New York, N. Y. Mold-machine for concrete building-blocks. No. 1,308,838; July 8; v. 264; p. 180.
- Brach, Leon S., New York, N. Y. Signaling means. No. 1,314,499; Sept. 2; v. 266; p. 4.
- Brackenbury, Thomas C., assignor to Metal Shingle & Siding Company of Alberta, Limited, Calgary, Alberta, Canada. Hog self-feeding machine. No. 1,292,693; Jan. 28; v. 258; p. 720.
- Brackett, Frank A., Manchester, N. H., assignor to W. H. McElwain Company. Sewing-machine. No. 1,301,808; Apr. 29; v. 261; p. 808.
- Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Lightning-arrester. No. 1,291,386; Jan. 14; v. 258; p. 351.
- Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mechanical rectifier. No. 1,311,489; July 29; v. 264; p. 772.
- Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vibrating rectifier. No. 1,311,490; July 29; v. 264; p. 772.
- Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Combined transformer and maintaining reactance device for vapor-converter systems. No. 1,318,722; Oct. 14; v. 267; p. 263.
- Brackett, Quincy A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rectifier system. No. 1,321,505; Nov. 11; v. 268; p. 280.
- Brackett, Tracy F., Chicago, Ill. Rotary engine. No. 1,307,480; June 24; v. 263; p. 516.
- Brackett, Tracy F., Chicago, Ill. Lubricating system for rotary engines. No. 1,316,679; Sept. 23; v. 266; p. 479.
- Brackin, John H., Hockessin, Del. Insect-exterminator. No. 1,294,036; Feb. 11; v. 259; p. 279.
- Brackmann, William, Newark, N. J., assignor to The Ocean Leather Co., Inc., New York, N. Y. Shrinking shark-skins. No. 1,304,256; May 20; v. 262; p. 397.
- Bracy, Edward L., Scotland Neck, assignor to R. H. Wright, Durham, N. C. Machine for handling packages. No. 1,290,888; Jan. 14; v. 258; p. 236.
- Bradbury, Clifford C., Oak Park, Ill. Vacuum-tank. No. 1,301,369; Apr. 22; v. 261; p. 694.
- Bradbury, George E., Los Angeles, Calif. Toy aeroplane. No. 1,322,225; Nov. 18; v. 268; p. 466.
- Braddick, Bernard L., San Diego, Calif. Pie and cake baker. No. 1,324,297; Dec. 9; v. 269; p. 247.



- Braddock, Edward I., Winchester, Mass., assignor to Braddock Nail & Manufacturing Co., Cleveland, Ohio. Barbed wire. No. 1,320,117; Oct. 28; v. 267; p. 577.
- Braddock Nail & Manufacturing Co. (See Braddock, Edward I., assignor.)
- Braden, Albert R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making cutting-dies. No. 1,317,753; Oct. 7; v. 267; p. 18.
- Bradford, Bruce B., Fort Madison, Iowa. Fountain-pen. No. 1,324,723; Dec. 9; v. 269; p. 328.
- Bradford, Henry V., Moose Jaw, Saskatchewan, Canada. Magnetic thimble attachment. No. 1,301,093; Apr. 22; v. 261; p. 638.
- Bradford, John B., and A. F. Levitt, Los Angeles, Calif. Wave-motor. No. 1,324,335; Dec. 9; v. 269; p. 254.
- Bradford, Robert, Calgary, Alberta, Canada. Running-gear for vehicles. No. 1,308,220; July 1; v. 264; p. 39.
- Bradford, Robert D., London, England. Mixing-valve. No. 1,303,762; May 13; v. 262; p. 268.
- Bradford, Robert D., London, England. Combination packing and valve. No. 1,303,763; May 13; v. 262; p. 268.
- Bradford, Thomas J., Lorane, Oreg. Multiple-breech gun. No. 1,298,447; Mar. 25; v. 260; p. 667.
- Bradley, Abia K., Independence, Kans. Amusement device. No. 1,326,177; Dec. 30; v. 269; p. 714.
- Bradley, Albert, Wilkensburg, Pa. Counter. No. 1,321,707; Nov. 11; v. 268; p. 318.
- Bradley, Aleyne G., assignor to Crippen & Reid, Baltimore, Md. Adjustable dress. No. 1,294,037; Feb. 11; v. 259; p. 279.
- Bradley, Arthur H., et al. (See Smith, James F., assignor.)
- Bradley, Arthur J., San Francisco, Calif. Torpedo-net. No. 1,301,641; Apr. 22; v. 261; p. 744.
- Bradley, Francis M., Town Creek, Ala. Hay-stacking rack. No. 1,295,265; Feb. 25; v. 259; p. 621.
- Bradley, Frederick E. (See Thomas and Bradley.)
- Bradley, Harry L., Milwaukee, Wis. Electric-current controller. No. 1,317,772; Oct. 7; v. 267; p. 21.
- Bradley, Harry L., Milwaukee, Wis. Motor-starter or electric-current controller. No. 1,317,773; Oct. 7; v. 267; p. 21.
- Bradley, Jacob A., assignor of one-half to F. P. Booz, Milwaukee, Wis. Spring-wheel. No. 1,323,005; Nov. 25; v. 268; p. 664.
- Bradley, John, Pawhuska, Okla. Scythe. No. 1,297,074; Mar. 11; v. 260; p. 320.
- Bradley, Joseph B., Miami, Fla. Screen-hinge. No. 1,306,684; June 17; v. 263; p. 337.
- Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Process and apparatus for effecting gas reactions. No. 1,291,745; Jan. 21; v. 258; p. 466.
- Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Apparatus for electrical treatment of gas. No. 1,325,136; Dec. 16; v. 269; p. 467.
- Bradley, Lynde, Milwaukee, Wis. Electric-current controller. No. 1,317,774; Oct. 7; v. 267; p. 22.
- Bradley, Mortimer L., Johnson City, Tenn. Cap for truss pads. No. 1,314,123; Aug. 26; v. 265; p. 513.
- Bradley, Parker R., East Orange, assignor to Aircraft Fireproofing Corporation, Nutley, N. J. Fireproofing aircraft. No. 1,309,453; July 8; v. 264; p. 295.
- Bradley, Parker R., East Orange, assignor to Aircraft Fireproofing Corporation, Nutley, N. J. Doping aircraft. No. 1,309,454; July 8; v. 264; p. 295.
- Bradley, Parker R., East Orange, assignor to Aircraft Fireproofing Corporation, Nutley, N. J. Powder-bag. No. 1,315,081; Sept. 2; v. 266; p. 111.
- Bradley, Parker R., East Orange, assignor to Aircraft Fireproofing Corporation, Nutley, N. J. Fireproofing for aircraft. No. 1,321,708; Nov. 11; v. 268; p. 319.
- Bradley, Ray A., St. Louis, Mo. Focus-finder for photographic cameras. No. 1,322,526; Nov. 25; v. 268; p. 574.
- Bradley & Vrooman Company. (See Safford, Lewis A., assignor.)
- Bradley, William H., Concord, N. H. Curtain-fixture. No. 1,307,292; June 17; v. 263; p. 448.
- Bradner, Hosea T. (See Lees, Ernest J., assignor.)
- Bradner, Hosea T. (See Schurr, Charles H., assignor.)
- Bradney, James O., and H. Priester, Middletown, N. Y. Automatic loader for tie and timber pilers. No. 1,311,210; July 29; v. 264; p. 720.
- Bradney, James O., and H. Priester, assignors to Bradney Machine Company, Inc., Middletown, N. Y. Davit. No. 1,291,746; Jan. 21; v. 258; p. 466.
- Bradney, James O., and H. Priester, assignors to Bradney Machine Company, Inc., Middletown, N. Y. Motor-operated adjustable conveyer. No. 1,301,642; Apr. 22; v. 261; p. 744.
- Bradney, James O., and H. Priester, assignors to Bradney Machine Company, Inc., Middletown, N. Y. Automatic unloader for timber-piling machines. No. 1,325,074; Dec. 16; v. 269; p. 455.
- Bradney Machine Company. (See Bradney and Priester, assignors.)
- Bradshaw, Charles H., Battle Creek, Mich. Card game. No. 1,290,498; Jan. 7; v. 258; p. 117.
- Bradshaw, Edgar. (See Bridge and Bradshaw.)
- Bradshaw, Edwin, San Francisco, Calif. Door-bolt. No. 1,324,381; Dec. 9; v. 269; p. 263.
- Bradshaw, Emory, Unionville, Mo. Non-refillable bottle. No. 1,315,942; Sept. 16; v. 266; p. 292.
- Bradshaw, Granville E., Hershham, Walton-on-Thames, England. Petrol-engine bearing. No. 1,301,094; Apr. 22; v. 261; p. 638.
- Bradshaw, Granville E., Walton-on-Thames, England. Roller-bearing. No. 1,324,638; Dec. 9; v. 269; p. 313.
- Bradshaw, Granville E., assignor of one-half to A. B. C. Motors Limited, Hershham, Walton-on-Thames, England. Motor-cycle frame. No. 1,306,995; June 17; v. 263; p. 394.
- Bradshaw, Granville E., assignor to himself and A. B. C. Motors Limited, Walton-on-Thames, England. Petrol-engine bearing. No. 1,301,370; Apr. 22; v. 261; p. 694.
- Bradshaw, Thomas, Oakland, Calif. Resilient tire. No. 1,299,112; Apr. 1; v. 261; p. 114.
- Bradshaw, William M., assignor to Westinghouse Electric and Manufacturing Company, Wilkensburg, Pa. Electrical measuring instrument. No. 1,290,499; Jan. 7; v. 258; p. 117.
- Bradshaw, William M., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,318,723; Oct. 14; v. 267; p. 264.
- Bradshaw, William M., Wilkensburg, and C. A. Boddie, assignors to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Electrical measuring instrument. No. 1,290,500; Jan. 7; v. 258; p. 117.
- Bradshaw, William M., and W. G. Mylius, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Prepayment watt-hour meter. No. 1,321,506; Nov. 11; v. 268; p. 230.
- Bradstreet, Lorenzo T., Rowley, Mass. Sleeping-car. No. 1,292,425; Jan. 28; v. 258; p. 654.
- Bradt, Harold J., Royal Oak, Mich. Mold for the manufacture of concrete tiles. No. 1,312,827; Aug. 12; v. 265; p. 216.
- Brady, Edward A., Oregon City, Oreg. Embalmer's chin-rest. No. 1,299,670; Apr. 8; v. 261; p. 269.
- Brady, Ignatius. (See Coffeen, Jesse, assignor.)
- Brady, James A., Hoboken, N. J. Display-stand. No. 1,320,310; Oct. 28; v. 267; p. 612.
- Brady, James H. (See Cozatt, Walter R., assignor.)
- Brady, James H., assignor, by mesne assignments, to Visible Measure Gasoline Dispenser Company of America, Louisville, Ky. Measuring-tank. No. 1,308,572; July 1; v. 264; p. 103.
- Brady, James H., assignor to Visible Measure Gasoline Dispenser Company of America, Louisville, Ky. Gasoline-tank. No. 1,308,573; July 1; v. 264; p. 103.
- Brady, James H., assignor to Visible Measure Gasoline Dispenser Company of America, Louisville, Ky. Indicator. No. 1,308,574; July 1; v. 264; p. 103.
- Brady, John D. (See Seibert and Brady.)
- Brady, Joseph H., Kansas City, Mo. Air-line exhaustor for steam-heating systems. No. 1,290,703; Jan. 7; v. 258; p. 167.
- Brady, Marquis R., Syracuse, Ind. Shocking-machine. No. 1,324,031; Dec. 9; v. 269; p. 106.
- Brady, William H., Eau Claire, Wis. Advertising memorandum-calendar. No. 1,293,013; Feb. 4; v. 259; p. 10.
- Bragg, Ernest C., Baltimore, Md. Hose-reel. No. 1,291,387; Jan. 14; v. 258; p. 351.
- Bragg, Julius, et al. (See Goode, Thomas A., assignor.)
- Bragg, Lallie T., Camden, Ala. Chimney-support for oil lamps. No. 1,297,646; Mar. 18; v. 260; p. 470.
- Brague, Everett W., Clarington, Ohio. Metallic roofing. No. 1,295,107; Feb. 25; v. 259; p. 585.
- Brahe, Henry W., assignor to Broken Hill Associated Smelters Proprietary Limited, Port Pirie, South Australia, Australia. Handling of retorts used in the production of spelter. No. 1,323,575; Dec. 2; v. 269; p. 66.
- Brahst, Julius H. (See Brahst, Louis C. and J. H.)
- Brahst, Louis C. and J. H., Hobart, Ind. Shock-absorber. No. 1,307,955; June 24; v. 263; p. 602.
- Brain, George. (See Kirk and Brain.)
- Brain, Jacob, Clifton, N. J. Auto turn-table. No. 1,291,747; Jan. 21; v. 258; p. 466.
- Brainard, Claude L., Mount Vernon, S. D. Milk-strainer. No. 1,307,287.
- Brainerd, Lura S., Meriden, Conn. Making motion-pictures. No. 1,296,471; Mar. 4; v. 260; p. 146.
- Brainerd, Lura S., Meriden, Conn. Apparatus for making motion-pictures. No. 1,301,538; Apr. 22; v. 261; p. 725.
- Brainerd, Lura S., Meriden, Conn. Producing moving pictures. No. 1,307,846; June 24; v. 263; p. 582.
- Brajdovics, William, Sharpsville, Pa. Automobile-wheel. No. 1,294,386; Feb. 18; v. 259; p. 395.
- Braley, Charles L., Rochester, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Garment-press. No. 1,303,247; May 13; v. 262; p. 175.



## Alphabetical list of patentees—Continued.

- Braley, Charles L., Chicago, Ill., assignor to The American Laundry Machinery Co., Cincinnati, Ohio. Bosompress. No. 1,309,562; July 8; v. 264; p. 315.
- Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,311,311; July 29; v. 264; p. 738.
- Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Neckband-expander for shirt-presses. No. 1,311,312; July 29; v. 264; p. 738.
- Braley, Howard D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Series-type distributing system. No. 1,300,242; Apr. 15; v. 261; p. 421.
- Braley, Wilbur G., Towanda, Kans. Bolt-cutter. No. 1,297,075; Mar. 11; v. 260; p. 320.
- Bralove, Simon, Washington, D. C. Pin-securing device. No. 1,296,042; Mar. 4; v. 260; p. 52.
- Bralove, Simon, Washington, D. C. Pin-fastening device. No. 1,297,995; Mar. 25; v. 260; p. 571.
- Bralove, Simon, Washington, D. C. Wrench. No. 1,320,730; Nov. 4; v. 268; p. 69.
- Braly, Norman B., Butte, Mont. Hose-coupling. No. 1,310,559; July 22; v. 264; p. 566.
- Bramer, Albert, Aredale, Iowa. Ditching-machine. No. 1,316,999; Sept. 23; v. 266; p. 638.
- Brammer, William, Haverhill, Mass. Bundling device. No. 1,307,182; June 17; v. 263; p. 427.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Switch for electric circuits. No. 1,297,996; Mar. 25; v. 260; p. 571.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Co. Electric switch. No. 1,309,840; July 15; v. 264; p. 404.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Combined switch and connector for electric circuits. No. 1,311,260; July 29; v. 264; p. 729.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Connector for electric circuits. No. 1,315,203; Sept. 9; v. 266; p. 144.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Co. Electric switch. No. 1,315,204; Sept. 9; v. 266; p. 144.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Co. Electric connector and switch. No. 1,320,834; Nov. 4; v. 268; p. 89.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Co. Circuit-connector. No. 1,323,821; Dec. 2; v. 269; p. 112.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Co. Combined electric connector and switch. No. 1,323,822; Dec. 2; v. 269; p. 113.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Electric switch. No. 1,326,178; Dec. 30; v. 269; p. 714.
- Bramwell, Walter. (See Barrett, Harry R., assignor.)
- Branagan, John J., McKees Rocks, Pa. Railway-rail joint. No. 1,307,110; June 17; v. 263; p. 415.
- Branan, Gilbert, Gravity, Iowa. Wire-stretcher. No. 1,302,003; Apr. 29; v. 261; p. 846.
- Brand, Charles F., Wheeling, W. Va. Snap-movement-valve mechanism. No. 1,314,243; Aug. 26; v. 265; p. 536.
- Brand, Charles F., Wheeling, W. Va. Snap-movement-valve mechanism. No. 1,314,244; Aug. 26; v. 265; p. 536.
- Brand, Ernst E., Helsingborg, Sweden. Channel-furnace. No. 1,291,748; Jan. 21; v. 258; p. 466.
- Brand, Frederick F., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,304,257; May 20; v. 262; p. 397.
- Brand, George P. (See Tunstall, William B., assignor.)
- Brand, George P., New York, N. Y. Mechanical web-guiding device. No. 1,293,014; Feb. 4; v. 259; p. 10.
- Brand, George P., New York, N. Y. Unit action for pneumatic musical instruments. No. 1,308,159; July 1; v. 264; p. 28.
- Brand, Herman H. (See Cary and Brand.)
- Brand, John J. F., Roseville, Ohio. Clay-working. No. 1,296,472; Mar. 4; v. 260; p. 146.
- Brand, Morrie, San Francisco, Calif. Reversible sash. No. 1,317,754; Oct. 7; v. 267; p. 18.
- Brandaleone, Albert, New York, N. Y. Lock. No. 1,318,837; Oct. 14; v. 267; p. 285.
- Brandels, Solomon J., New York, N. Y. Cutting-forceps. No. 1,290,501; Jan. 7; v. 258; p. 118.
- Brandenberger, Carl F., Fort Madison, Iowa. Drain-storage pump. No. 1,321,709; Nov. 11; v. 268; p. 319.
- Brandenburg, Joseph, Denver, Colo. Griddle-greaser. No. 1,297,076; Mar. 11; v. 260; p. 321.
- Brandenburger, John A. (See McKelvey and Brandenburger.)
- Brandenstein, Daniel, New York, N. Y., and J. Fischer, Roseville, N. J. Power transmission for sewing-machines. No. 1,292,239; Jan. 21; v. 258; p. 590.
- Brandenstein, Manfred, San Francisco, Cal. Sheet-metal receptacle. No. 1,290,061; Jan. 7; v. 258; p. 11.
- Brander, George, Sutherland, Iowa. Egg-tester. No. 1,322,755; Nov. 25; v. 268; p. 617.
- Brandfuss, Charles E., Wheeling, W. Va. Timing apparatus. No. 1,312,888; Aug. 12; v. 265; p. 227.
- Brandfon, David, Los Angeles, Calif. Adjustable chair-recliner. No. 1,309,012; July 8; v. 264; p. 213.
- Brandon Printing Co. (See Dismukes, Walter W., assignor.)
- Brandstetter, Josef, Rochester Minn., assignor to Sears, Roebuck & Company, Chicago, Ill. Sound-box. No. 1,307,236; June 17; v. 263; p. 437.
- Brandt, Charles E. (See De Roussel and Brandt.)
- Brandt, Charles E. J. (See Brandt, Edgar W. and C. E. J.)
- Brandt Company, The. (See Boesch and Foster, assignors.)
- Brandt, Edgar W. and C. E. J., Paris, France. Fuse for explosive shells with safety device. No. 1,310,855; July 22; v. 264; p. 621.
- Brandt, Henry E., Stillwater, Minn. Sprayer. No. 1,295,420; Feb. 25; v. 259; p. 657.
- Brandt, Herman W. et al. (See Michele, John, assignor.)
- Brandt, Jackson. (See Dewey, Haywood G., assignor.)
- Brandt, John, Bronx, N. Y., assignor by mesne assignments, to Autosales Corporation. Casing for vending-machines. No. 1,291,749; Jan. 21; v. 258; p. 467.
- Brandwood, Thomas, Walshaw, England. Perforated beam for dyeing and like apparatus. No. 1,298,287; Mar. 25; v. 260; p. 634.
- Brannen, William F., Salt Lake City, Utah. Auxiliary intake for internal-combustion engines. No. 1,323,006; Nov. 25; v. 268; p. 664.
- Brannin, Mark H., Newark, N. J., assignor to General Electric Company. Manufacturing incandescent lamps. No. 1,315,813; Sept. 9; v. 266; p. 253.
- Brannan, John. (See Brown and Brannan.)
- Branning, Willie F., San Antonio, Texas. Underground portable drill. No. 1,310,274; July 15; v. 264; p. 483.
- Brannon, Daniel M., Williston, N. D. Belt-shifter. No. 1,297,787; Mar. 18; v. 260; p. 502.
- Brannon, Virgil C., Fort Stockton, assignor of one-half to J. L. Mayfield, Wichita Falls, Tex. Rifle. No. 1,291,674; Jan. 14; v. 258; p. 420.
- Branson, Charles B., Lincoln, Nebr. Constructive design of face-plates used for the purpose of covering openings in air-registers and ventilators through which air passes. No. 1,313,460; Aug. 19; v. 265; p. 354.
- Branson, Ivan T., Stockton, Calif. Rotary anvil. No. 1,324,492; Dec. 9; v. 269; p. 285.
- Branson, Russel W., assignor of three-fourths to M. Becker, Kansas City, Mo. Check-protector. No. 1,298,874; Apr. 1; v. 261; p. 59.
- Branson, Samuel J., Chicago, Ill. Building false work. No. 1,323,823; Dec. 2; v. 269; p. 113.
- Branson, Samuel J., and E. C. Strathmann, assignors to The Concrete Forms Company, Indianapolis, Ind. False work for concrete floors. No. 1,314,567; Sept. 2; v. 266; p. 18.
- Branson, Thomas, assignor to Sibson & Stern, Inc., Philadelphia, Pa. Reinforcing fabric strip for tires. No. 1,300,696; Apr. 15; v. 261; p. 617.
- Branstrator, Clem G., Monmouth, Ill., assignor to S. J. Beck, Davenport, Iowa. Power transmission for driven mechanisms. No. 1,292,694; Jan. 28; v. 258; p. 720.
- Brantford Computing Scale Company. (See Herod, Charles H., assignor.)
- Brantingham, J. H. (See Bay and Brantingham.)
- Brantley, James A., Sand Springs, Okla. Drive-gearing for mining-machines. No. 1,297,647; Mar. 18; v. 260; p. 470.
- Brantley, James A., Sand Springs, Okla. Mining-machine. No. 1,299,905; Apr. 8; v. 261; p. 321.
- Brantley, James A., Sand Springs, Okla. Propelling mechanism for vehicles. No. 1,312,828; Aug. 12; v. 265; p. 216.
- Brasco Manufacturing Company. (See Hester, George C., assignor.)
- Brasclon, Chester H., Dayton, Ohio. Spark-plug and making the same. No. 1,311,261; July 29; v. 264; p. 729.
- Brasclon, Chester H., Dayton, Ohio. Shoe. No. 1,320,670; Nov. 4; v. 268; p. 58.
- Brasclon, Chester H., Toledo, Ohio, and F. M. Carroll, New York, N. Y., said Brasclon assignor to said Carroll. Pencil. No. 1,292,426; Jan. 28; v. 258; p. 654.
- Brashear, Anna A., Santa Barbara, Calif. Tire. No. 1,311,750; July 29; v. 264; p. 820.
- Brashier, Henry J., London, England. Receptacle for blacking, tooth-paste, and like plastic materials. No. 1,296,473; Mar. 4; v. 260; p. 146.
- Brass Goods Mfg. Co. (See Frey, August J., assignor.)
- Brass, John F., Downers Grove, Ill. Sprinkler-head. No. 1,313,787; Aug. 19; v. 265; p. 415.
- Brassill, Frank A., Hartford, assignor to Middlesex Machine Company, Inc., Middletown, Conn. Bearing-head for grinding-machines. No. 1,298,448; Mar. 25; v. 260; p. 668.
- Braszkowski, Bernard B., Pittsburgh, Pa. Mold. No. 1,310,172; July 15; v. 264; p. 464.
- Bratsch, Theodore G., Orange, Cal. Governor. No. 1,290,704; Jan. 7; v. 258; p. 167.
- Braucher, Peter S., Reading, Pa. Soft-metal alloy. No. 1,304,849; May 27; v. 262; p. 549.



- Braucht, Benjamin E., Cartwright, N. D. Demountable rim for vehicle wheels. No. 1,293,015; Feb. 4; v. 259; p. 11.
- Braud, Samuel C., New Orleans, La. Packer for stock feed. No. 1,297,077; Mar. 11; v. 260; p. 321.
- Braun, Albert F., Clay Center, Kans. Pipe-puller. No. 1,305,438; June 3; v. 263; p. 39.
- Braun, Walter M., Milwaukee, Wis. Apparatus for finishing gloves. No. 1,292,240; Jan. 21; v. 258; p. 590.
- Braun, William A., Dover, Ohio. Soldering-iron. No. 1,293,320; Feb. 4; v. 259; p. 81.
- Braun, William A., assignor to The Dover Manufacturing Co., Canal Dover, Ohio. Electrical heating unit. No. 1,318,838; Oct. 14; v. 267; p. 286.
- Braun, William A., Canal Dover, assignor to The Dover Manufacturing Company, Dover, Ohio. Manufacturing electrically-heated devices. No. 1,324,582; Dec. 9; v. 269; p. 302.
- Braun, William F. H., assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Gang-mower. No. 1,299,906; Apr. 8; v. 261; p. 321.
- Braun, William P. M., assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Gang lawn-mower. No. 1,294,387; Feb. 18; v. 259; p. 395.
- Braun, William P. M., assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mower structure. No. 1,295,108; Feb. 25; v. 259; p. 586.
- Braund, Charles W., Cleveland, Ohio. Window-scaffold. No. 1,325,229; Dec. 16; v. 269; p. 484.
- Brauning, Gottlob J., Detroit, Mich. Internal-combustion engine. No. 1,324,293; Dec. 9; v. 269; p. 247.
- Braxton, Henry H., Orleans, Ind. Buckle. No. 1,320,835; Nov. 4; v. 268; p. 90.
- Bray, Reginald G. (See Marcoux and Bray.)
- Bray, Robert R., Los Angeles, Calif. Electric well-drill. No. 1,307,847; June 24; v. 263; p. 582.
- Braybrooke, Charles E. (See Shields and Braybrooke.)
- Brayton, Corey C., Berkeley, Calif., and A. A. Allan, Nome, Alaska. Power-driven sled. No. 1,305,644; June 3; v. 263; p. 79.
- Brayton, Grant. (See Young and Cass, assignors.)
- Brazell, Thomas F., New Bedford, assignor to Draper Corporation, Hopedale, Mass. Shuttle for side-motion feeder-looms. No. 1,302,629; May 6; v. 262; p. 28.
- Breaker, Harry O., Winthrop, assignor to American Incandescent Heat Company, Inc., Boston, Mass. Utilizing fuel in the treatment of metals. No. 1,304,258; May 20; v. 262; p. 397.
- Breckenridge, Harold C., Clancy, Mont. Electric lantern. No. 1,319,638; Oct. 21; v. 267; p. 464.
- Breckenridge, John G., Springfield, Ohio. Machine for manufacturing metal wool. No. 1,306,880; June 17; v. 263; p. 373.
- Bredar, Joseph L., Rock Island, Ill. Demountable rim. No. 1,318,534; Oct. 14; v. 267; p. 228.
- Bredenberg, J. A. W., and E. G. Cron, assignors to Aktiebolaget Fucus, Stockholm, Sweden. Extracting iodine and other chemical products from seaweeds by dry distillation. No. 1,305,058; May 27; v. 262; p. 588.
- Breese, James L., Jr., Washington, D. C. Vacuum-fuel-feed device for internal-combustion engines. No. 1,293,683; Feb. 11; v. 259; p. 195.
- Breese, Robert P., New York, N. Y. Observation-window. No. 1,318,839; Oct. 14; v. 267; p. 286.
- Breeze, Herbert J., Portland, Oreg. Wheel. No. 1,314,462; Aug. 26; v. 265; p. 578.
- Brégeat, Jean H., Paris, France. Recovery of volatile solvents. No. 1,315,700; Sept. 9; v. 266; p. 232.
- Brégeat, Jean H., Paris, France. Apparatus for the recovery of volatile solvents in continuous process. No. 1,315,701; Sept. 9; v. 266; p. 232.
- Breguet, Louis, assignor to Societe Anonyme Des Ateliers D'Aviation Louis Breguet, Velizy Villacoublay, France. Means for supporting and releasing tanks or reservoirs employed in connection with aircraft. No. 1,322,160; Nov. 18; v. 268; p. 453.
- Brehm, Charles M., Dayton, Ohio. Die. No. 1,304,151; May 20; v. 262; p. 376.
- Breidenbach, William F., Indianapolis, Ind. Safety device for high-pressure gas-tanks. No. 1,303,248; May 13; v. 262; p. 175.
- Breitenbach, Julius M., New York, N. Y. Stretcher-support. No. 1,312,516; Aug. 12; v. 265; p. 154.
- Brekken, Oswald C., Pekin, N. D. Runner for automobiles. No. 1,292,427; Jan. 28; v. 258; p. 655.
- Bremberg, Axel, Glasgow, Scotland. Breech mechanism for ordnance. No. 1,318,840; Oct. 14; v. 267; p. 286.
- Bremberg, Ivar E., Chicago, Ill. Cushion-heel. No. 1,322,285; Nov. 18; v. 268; p. 477.
- Bremer, Clifton L., Milton, Mass. Shooting game. No. 1,324,189; Dec. 9; v. 269; p. 226.
- Bremer, Otto A. (See Sprenger and Bremer.)
- Bremer, Otto A., Burlington, Iowa. Connecting-rod-babbling jig. No. 1,304,538; May 27; v. 262; p. 491.
- Bremer, Russell H., assignor of one-half to N. Dacunto, New York, N. Y. Insulating-lining. No. 1,315,082; Sept. 2; v. 266; p. 112.
- Brenckle, Raymond J., Millvale, Pa. Machine for cleaning vegetables. No. 1,320,983; Nov. 4; v. 268; p. 118.
- Brendza, Steven, Cleveland, Ohio. Stair-carpet fastener. No. 1,321,507; Nov. 11; v. 268; p. 280.
- Breneman, Joseph T., El Cerrito, Calif. Raising sunken ships. No. 1,324,336; Dec. 9; v. 269; p. 254.
- Brenizer, Orson W., assignor of one-half to A. V. Groupe, Philadelphia, Pa. Paper-fastening device. No. 1,298,875; Apr. 1; v. 261; p. 59.
- Brenk, Robert J., Milwaukee, Wis. Vest. No. 1,322,527; Nov. 25; v. 268; p. 575.
- Brenkert, Joseph W., San Diego, Calif. Water-purifying apparatus. No. 1,309,876; July 15; v. 264; p. 410.
- Brennan, Charles T., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Stock cutting and transferring mechanism for heading-machines. No. 1,299,115; Apr. 1; v. 261; p. 114.
- Brennan, John S., Milwaukee, Wis. Garbage and rubbish incinerator. No. 1,301,371; Apr. 22; v. 261; p. 695.
- Brennan, John S., Milwaukee, Wis. Oil-burner. No. 1,315,361; Sept. 9; v. 266; p. 172.
- Brennan, John S., Milwaukee, Wis. Oil-burner. No. 1,317,153; Sept. 30; v. 266; p. 603.
- Brennan, John S., and R. E. Nicholas, assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Igniter-torch. No. 1,321,280; Nov. 11; v. 268; p. 238.
- Brennan, Joseph B., Akron, Ohio. Making sheet-stock for pneumatic tires. No. 1,317,426; Sept. 30; v. 266; p. 655.
- Brennan, Lawrence, Red Deer, Alberta, Canada. Fender for automobiles. No. 1,290,705; Jan. 7; v. 258; p. 168.
- Brennan, Patrick J., Tuxedo Park, N. Y. Ash-sifter. No. 1,316,137; Sept. 16; v. 266; p. 327.
- Brennan, William E., assignor to The Reducing Machine Company, Chicago, Ill. Apparatus for body treatment. No. 1,305,439; June 3; v. 263; p. 39.
- Brennar, Lewis A., Brandonville, Pa. Device for thawing drain-pipes. No. 1,299,671; Apr. 8; v. 261; p. 269.
- Brennecke, Herman J., assignor to R. Malcom, Chicago, Ill. Safety-goggles. (Reissue.) No. 14,645; May 13; v. 262; p. 283.
- Brennen, George. (See Robinson, Thomas N., assignor.)
- Brenner, Walter D., Smithsburg, Md. Game apparatus. No. 1,319,561; Oct. 21; v. 267; p. 449.
- Brenner, William H., East Finchley, London, assignor of two-thirds to Electromotor Equipment Company Ltd., London, England. Combined mechanical lock and electric-circuit breaker for lift gates and doors. No. 1,291,750; Jan. 21; v. 258; p. 467.
- Brenner, William L., assignor to Production Tool Co. of America, Detroit, Mich. Milling-cutter holder. No. 1,319,458; Oct. 21; v. 267; p. 430.
- Brent, George F., Weiser, Idaho. Spring-reinforcement. No. 1,311,751; July 29; v. 264; p. 820.
- Brent, Henry W., Baltimore, Md. Oil-burner. No. 1,313,059; Aug. 12; v. 265; p. 262.
- Brent, James A., San Francisco, Cal. Ore-concentrator. No. 1,295,960; Mar. 4; v. 260; p. 32.
- Brenzinger, Julius, Fairfield, Conn. Machine for applying a seam-packing composition to can-covers. No. 1,296,474; Mar. 4; v. 260; p. 146.
- Brenzinger, Julius, Mount Vernon, assignor to Paragon Metal Cap Company, Inc., Brooklyn, N. Y. Bottle-capping machine. No. 1,290,706; Jan. 7; v. 258; p. 168.
- Brenzinger, Julius, Fairfield, Conn., assignor to Sanitary Can Machinery Company, Ellsworth, Me. Cover-feed for can-heading machines. No. 1,292,695; Jan. 28; v. 258; p. 720.
- Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Assembling and feeding device for can-heading machines. No. 1,306,744; June 17; v. 263; p. 348.
- Bresin, Louis, assignor to Adams-Williams Manufacturing Corporation, New York, N. Y. Folding automobile-top. No. 1,294,038; Feb. 11; v. 259; p. 279.
- Bressie, Mary. (See Bascue, John C., assignor.)
- Bressler, John B., Grass Valley, Oreg. Washbasin and sink. No. 1,320,984; Nov. 4; v. 268; p. 118.
- Bressler, Regina N., New York, N. Y. Swimming device. No. 1,297,648; Mar. 18; v. 260; p. 470.
- Bresson, Henry J., Detroit, Mich. Water-closet bowl. No. 1,313,060; Aug. 12; v. 265; p. 262.
- Bretall, Walter H. (See Rieck and Bretall.)
- Bretherton, Francis J. (See Robson and Bretherton.)
- Bretscher, Hans, assignor of one-half to F. Spitzner, New York, N. Y. Demountable rim. No. 1,290,889; Jan. 14; v. 258; p. 236.
- Bretscher, Hans, assignor of thirty-five one-hundredths to F. Spitzner, New York, N. Y. Pneumatic tire for vehicles. No. 1,307,036; June 17; v. 263; p. 402.
- Bretscher, Hans, New York, N. Y., assignor of one-half to F. Spitzner. Demountable rim. (Reissue.) No. 14,770; Dec. 16; v. 269; p. 535.
- Brettel, Alfred. (See Banks, Benjamin B., assignor.)
- Bretz, John, Jr., Detroit, Mich. Fuel-heater. No. 1,296,043; Mar. 4; v. 260; p. 52.
- Bretz, John, Jr., Detroit, Mich. Piston-ring remover. No. 1,303,458; May 13; v. 262; p. 211.
- Breuer, Vladimir, and P. Leschnik, New York, N. Y. Automobile-bumper. No. 1,325,924; Dec. 23; v. 269; p. 631.
- Brewer, Charles A., assignor to Charles A. Brewer & Sons, Chicago, Ill. Sales-board. No. 1,309,349; July 8; v. 264; p. 275.



## Alphabetical list of patentees—Continued.

- Brewer, Charles A., assignor to Charles A. Brewer & Sons, Chicago, Ill. Sales-board. No. 1,309,350; July 8; v. 264; p. 476.
- Brewer, Edward C., Seattle, Wash. Berry-picker. No. 1,300,566; Apr. 15; v. 261; p. 490.
- Brewer, Glenn A., Kansas City, Mo. Aeroplane. No. 1,307,806; June 24; v. 263; p. 574.
- Brewer, Governor L., Kent City, Mich. Spark-plug. No. 1,321,710; Nov. 11; v. 268; p. 319.
- Brewer, Harry W., St. Louis, Mo. Printing-machine. No. 1,314,043; Aug. 26; v. 265; p. 498.
- Brewer, James F., Glendale, Md. Printing upon irregular surfaces. No. 1,326,843; Dec. 30; v. 269; p. 840.
- Brewer, John H., Louisville, Ky. Camp-bed. No. 1,305,440; June 3; v. 263; p. 40.
- Brewer, Lida E., Toms Creek, Va. Wire-twister. No. 1,293,016; Feb. 4; v. 259; p. 11.
- Brewer, William A., Pittsburgh, assignor to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,296,913; Mar. 11; v. 260; p. 284.
- Brewer, William A., Pittsburgh, assignor to P. H. Murphy Company, Parnassus, Pa. Car-roof. (Reissue.) No. 1,4734; Oct. 14; v. 267; p. 324.
- Brewer, William A., Pittsburgh, and E. F. Hoppel, New Kensington, assignors to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,302,293; Apr. 29; v. 261; p. 900.
- Brewer, William A., Pittsburgh, and G. A. Gruendling, New Kensington, assignors to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,302,299; Apr. 29; v. 261; p. 900.
- Brews, Douglas, Cleveland, Ohio. Steam-whistle. No. 1,313,251; Aug. 19; v. 265; p. 315.
- Brews, Douglas, Cleveland Heights, Ohio. Liquid system for operating signals. No. 1,326,583; Dec. 30; v. 269; p. 753.
- Brewster, Charles W., New York, N. Y. Electrically-operated brake mechanism. No. 1,308,619; July 1; v. 264; p. 112.
- Brewster, Ernest B., assignor of one-half to Charles W. Williams & Company, New York, N. Y. Air-brush. No. 1,316,937; Sept. 23; v. 266; p. 526.
- Brewster, Ethelbert J., Fresno, Calif. Vehicle-spring. No. 1,298,168; Mar. 25; v. 260; p. 608.
- Brewster Film Corporation. (See Brewster, Percy D., assignor.)
- Brewster, Louella C. (See Augustine, Emily B., assignor.)
- Brewster, Percy D., East Orange, assignor to Brewster Film Corporation, Newark, N. J. Color positive film. No. 1,308,538; July 1; v. 264; p. 97.
- Brewster, Robert, Chicago, Ill. Spark-plug. No. 1,294,229; Feb. 11; v. 259; p. 325.
- Brewster, Theodore J., New York, N. Y. Making alkaline permanganates, chlorates, and hydrogen. No. 1,291,751; Jan. 21; v. 258; p. 467.
- Brey, Fred A., Del Norte, Colo. Letter-opener. No. 1,306,945; June 17; v. 263; p. 385.
- Breyer, Frank G. (See Singmaster, Breyer, and Bunce.)
- Breyer, Frank G., Palmerton, Pa., J. A. Singmaster, Bronxville, N. Y., and A. E. Hall, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of zinc oxid. No. 1,322,088; Nov. 18; v. 268; p. 440.
- Breyer, Frank G., Palmerton, Pa., J. A. Singmaster, Bronxville, N. Y., and A. E. Hall, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Production of metal oxides and other compounds of metals. No. 1,322,091; Nov. 18; v. 268; p. 440.
- Breyer, Frank G., A. E. Hall, and G. R. Waltz, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Production of zinc oxid. No. 1,322,089; Nov. 18; v. 268; p. 440.
- Breyer, Frank G., A. E. Hall, and G. R. Waltz, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Production of metal oxides and other compounds of metals. No. 1,322,090; Nov. 18; v. 268; p. 440.
- Breyer, Joseph, Redlands, Cal. Carpet - top. No. 1,291,752; Jan. 21; v. 258; p. 467.
- Breyer, Joseph. (See McDowell, Robert S., assignor.)
- Briant Manufacturing Company. (See Larsen, Arnold, assignor.)
- Bricker, James G., Cleveland, Ohio. Grouting-tool. No. 1,306,135; June 10; v. 263; p. 200.
- Brickley, Charles A., Providence, R. I. Keyhole-guard. No. 1,292,606; Jan. 28; v. 258; p. 721.
- Brickman, David, Los Angeles, Cal. Gas-burner. No. 1,294,999; Feb. 18; v. 259; p. 537.
- Brickman, David, Pasadena, Calif. Portable combination revolving baker's gas-oven. No. 1,298,876; Apr. 1; v. 261; p. 59.
- Brickman, Samuel, Oklahoma, Okla. Sanitary gasoline-can. No. 1,290,502; Jan. 7; v. 258; p. 118.
- Bricknell, John S. (See Hegerhorst, John, assignor.)
- Bridge & Beach Mfg. Co. (See Herrenbruck and Andreas, assignors.)
- Bridge, Robert, and E. Bradshaw, assignors to David Bridge and Company Limited, Castleton, England. Friction-clutch. No. 1,312,776; Aug. 12; v. 265; p. 206.
- Bridgefarmer, Fred, et al. (See Campbell, William L., assignor.)
- Bridgeport Brass Company. (See Clark, Walter R., assignor.)
- Bridgers, John D., Florence, S. C. Radius-rod. No. 1,324,539; Dec. 9; v. 269; p. 294.
- Bridges, Clyde L., Altus, Okla. Wheel-tread. No. 1,315,278; Sept. 9; v. 266; p. 157.
- Bridges, Faunt P., and I. L. Pritchett, Depoy, Ky. Churn-dasher. No. 1,306,797; June 17; v. 263; p. 357.
- Bridges, Herbert F. (See Poss, George W., assignor.)
- Bridges, Reuben E., Cartersville, Mo. Portable turnout-switch. No. 1,315,702; Sept. 9; v. 266; p. 232.
- Bridges, Robert F. (See Purnell and Bridges.)
- Bridgewater Plow Corporation. (See Shipman and Click, assignors.)
- Bridgewater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,308,328; July 1; v. 264; p. 59.
- Bridgewater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Process and apparatus for treating type-bars for type-writing and like machines. No. 1,308,329; July 1; v. 264; p. 59.
- Bried, Julien A., Oakland, Calif. Tile floor. No. 1,306,246; June 10; v. 263; p. 224.
- Briegel, Theodore, Rock Island, Ill. Metal-bending machine. No. 1,304,152; May 20; v. 262; p. 376.
- Brien, James T., Hoosick Falls, N. Y., assignor of one-half to J. C. Haswell, Dayton, Ohio; J. A. Brien, executrix. Float-valve. No. 1,312,678; Aug. 12; v. 265; p. 186.
- Brien, Jennie A., executrix. (See Brien, James T.)
- Brien, Theodore R., Westfield, Mass. Hand sleigh and sled. No. 1,303,632; May 13; v. 262; p. 243.
- Brien, William F., and M. H. Whittaker, Indianapolis, Ind. Route and station indicating means. No. 1,310,978; July 22; v. 264; p. 643.
- Brier, Solon C. (See Klopfenstein and Brier.)
- Brierly, Benjamin R. (See Tatro and Delius, assignors.)
- Brigden, Arthur, Birmingham, Ala. Disk harrow and cultivator. No. 1,292,697; Jan. 28; v. 258; p. 721.
- Brigden, George F., Waltham, Mass. Indicator. No. 1,300,339; Apr. 15; v. 261; p. 441.
- Briggs, Arthur J., Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,326,474; Dec. 30; v. 269; p. 776.
- Briggs, Arthur M., Redondo Beach, Calif. Rotary internal-combustion engine. No. 1,302,504; May 6; v. 262; p. 5.
- Briggs, Benjamin F. (See Allen, James A., assignor.)
- Briggs, George W., St. Joseph, Mo. Electric street-car indicator. No. 1,323,672; Dec. 2; v. 269; p. 84.
- Briggs, Henry, Hasbrouck Heights, N. J. Guide or gage for hand-tools. No. 1,317,126; Sept. 23; v. 266; p. 562.
- Briggs, Jesse A., Wesleyville, Pa. Pliers. No. 1,305,873; June 3; v. 263; p. 122.
- Briggs, Katharine C., Washington, D. C. Removably tray for traveling-bags. No. 1,300,921; Apr. 15; v. 261; p. 565.
- Briggs, Robert M., Pittsfield, Mass., assignor to General Electric Company. Method of and apparatus for applying shellac and the like to sheets of material. No. 1,311,491; July 29; v. 264; p. 772.
- Briggs, Stephen F., assignor to Briggs & Stratton Company, Milwaukee, Wis. Polarity-reversing switch. No. 1,322,870; Nov. 25; v. 268; p. 639.
- Briggs & Stratton Company. (See Briggs, Stephen F., assignor.)
- Briggs, Thomas L., Flushing, assignor to General Chemical Company, New York, N. Y. Purifying gases and for producing briquetting material. No. 1,301,372; Apr. 22; v. 261; p. 695.
- Briggs, Thomas L., Flushing, assignor to General Chemical Company, New York, N. Y. Apparatus for purifying gases and for producing briquetting material. No. 1,301,373; Apr. 22; v. 261; p. 695.
- Brigham, Henry M., Brooklyn, N. Y., assignor to American Linseed Company. Artificial fuel and making same. No. 1,313,876; Aug. 26; v. 265; p. 466.
- Bright, Allen U., Howard, Kans. Poison-distributor. No. 1,321,360; Nov. 11; v. 268; p. 253.
- Bright, Bertha R., New York, N. Y. Collar. No. 1,322,176; Nov. 18; v. 268; p. 456.
- Bright, Colonel E. (See Freeman, Joseph W., assignor.)
- Bright, Harry, Kenosha, Wis. Washing-machine. No. 1,316,763; Sept. 23; v. 266; p. 495.
- Bright, Roberts O., and C. D. Smith, assignors to Arvac Manufacturing Company, Anderson, Ind. Shaft-joint and forming the same. No. 1,291,388; Jan. 14; v. 258; p. 351.
- Brightman, Frank C., New Bedford, Mass. Drill-point. No. 1,320,985; Nov. 4; v. 268; p. 118.
- Brightman, Joseph F. (See Keeler and Brightman.)
- Brill, Benjamin, et al. (See Thompson, William H., assignor.)
- Brill, Henry S., New York, N. Y. Lock. No. 1,290,503; Jan. 7; v. 258; p. 118.
- Brill, Henry S., New York, N. Y. Lock. No. 1,298,288; Mar. 25; v. 260; p. 634.
- Brill, Henry S., New York, N. Y. Package-tie. No. 1,298,877; Apr. 1; v. 261; p. 60.



- Brillhart, Elmer L., Chicago, Ill., assignor to Electric Specialty Company, New London, Wis. Water purifying and filtering device. No. 1,320,118; Oct. 28; v. 267; p. 577.
- Brillhart, Glenn D., Cuyahoga Falls, Ohio. Tire-patch. No. 1,295,961; Mar. 4; v. 260; p. 32.
- Brimberg, Samuel N. (See Rosenberg, Heyman, assignor.)
- Brimhall, Bert, Salt Lake City, Utah. Vegetable-topping device. No. 1,294,388; Feb. 18; v. 259; p. 395.
- Brindle, Richard G., Chicago, Ill., assignor to Corn Products Refining Company. Product from steep-water and manufacturing the same. No. 1,313,163; Aug. 12; v. 265; p. 282.
- Brindle, Richard G., and A. H. Flint, Chicago, Ill., assignors to Corn Products Refining Company. Product usable as fertilizer and manufacturing the same. No. 1,313,162; Aug. 12; v. 265; p. 282.
- Briner, Emil A., East Orange, N. J. System of air-distribution. No. 1,298,655; Apr. 1; v. 261; p. 8.
- Brink, Carl A., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Unwinding device. No. 1,317,544; Sept. 30; v. 266; p. 677.
- Brink, Carl A., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Cop-holder. No. 1,317,545; Sept. 30; v. 266; p. 678.
- Brink, Francis N. (See Pratt and Brink.)
- Brinkhaus, Hugo, Brooklyn, N. Y. Denarcotizing tobacco. No. 1,304,539; May 27; v. 262; p. 491.
- Brinkman, Louis H., Glen Ridge, N. J. Apparatus for flanging pipes. No. 1,298,656; Apr. 1; v. 261; p. 8.
- Brinkman, Louis H., Glen Ridge, N. J. Apparatus for drawing rods and tubes of varying diameters. No. 1,301,220; Apr. 22; v. 261; p. 664.
- Brinkman, Louis H., Glen Ridge, N. J. Drawing rods and tubes of varying diameters. No. 1,301,221; Apr. 22; v. 261; p. 665.
- Brinkman, Louis H., Glen Ridge, N. J. Tube-bending machine. No. 1,309,238; July 8; v. 264; p. 255.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation. Muffler. No. 1,302,800; Apr. 29; v. 261; p. 900.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to General Industries Company. Apparatus for making flanged pipes. No. 1,304,938; May 27; v. 262; p. 564.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to General Industries Company. Making flanged pipes. No. 1,304,939; May 27; v. 262; p. 564.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Ball Rolled Tube Corporation. Apparatus for drawing metal. No. 1,318,962; Oct. 14; v. 267; p. 310.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Ball Rolled Tube Corporation. Reducing rods and tubes. No. 1,319,837; Oct. 28; v. 267; p. 525.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Ball Rolled Tube Corporation. Apparatus for reducing rods and tubes. No. 1,319,838; Oct. 28; v. 267; p. 525.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Ball Rolled Tube Corporation. Thrust-bearing. No. 1,320,836; Nov. 4; v. 268; p. 90.
- Brinkman, Louis H., Glen Ridge, N. J., assignor to Ball Rolled Tube Corporation. Metal-drawing apparatus. No. 1,320,837; Nov. 4; v. 268; p. 90.
- Brinnon, Ellis P., Columbus, Ohio. Mechanical starter. No. 1,301,901; Apr. 29; v. 261; p. 826.
- Brintlinger, Frank P., Decatur, Ill. Washing-machine. No. 1,295,421; Feb. 25; v. 259; p. 657.
- Brinton, Walter, Wilmington, Del., assignor to American Manganese Steel Company, Augusta, Me. Sectional gear. No. 1,308,160; July 1; v. 264; p. 28.
- Brinton, Willard C., New York, N. Y. Mounting. No. 1,301,902; Apr. 29; v. 261; p. 826.
- Brinton, Willard C., New York, N. Y. Motor-vehicle. No. 1,313,937; Aug. 26; v. 265; p. 477.
- Brinton, William C., Jr., assignor to Philips-Brinton Company, Kennett Square, Pa. Ignition system for internal-combustion engines. No. 1,290,504; Jan. 7; v. 258; p. 118.
- Brinton, William C., Jr., assignor to Philips-Brinton Company, Kennett Square, Pa. Ignition system for internal-combustion engines. No. 1,292,241; Jan. 21; v. 258; p. 591.
- Brinton, William C., Jr., assignor to Philips-Brinton Company, Kennett Square, Pa. Making electrical condensers. No. 1,307,341; June 24; v. 263; p. 490.
- Brinton, William C., Jr., assignor to Philips-Brinton Company, Kennett Square, Pa. Switch-box. No. 1,321,806; Nov. 18; v. 268; p. 388.
- Briones, Julio N., Cuenca, Spain. Compound fabric. No. 1,306,518; June 10; v. 263; p. 274.
- Brisacher, John, Toronto, Ontario, Canada. Means for tightening eyeglass-lenses. No. 1,304,850; May 27; v. 262; p. 549.
- Brisben, William W., Coatesville, Pa. Lawn-mower. No. 1,293,321; Feb. 4; v. 259; p. 82.
- Brisbin, Charles H., Yuma, Ariz. Dies. No. 1,301,095; Apr. 22; v. 261; p. 638.
- Brisbois, Felix, Mahnomon, and J. V. King, Waubun, Minn. Headlight-shield. No. 1,326,017; Dec. 23; v. 269; p. 647.
- Brisbois, Sylvester A., Detroit, Mich. Vehicle-wheel tire. No. 1,311,677; July 29; v. 264; p. 806.
- Briscoe, Willard H., assignor of one-half to J. H. Shary, Mission, Tex. Heater. No. 1,321,975; Nov. 18; v. 268; p. 419.
- Bristol, Chester L., Lorain, Ohio, assignor to National Tube Company. Controller for pipe-drifting and coupling-attaching machines. No. 1,325,925; Dec. 23; v. 269; p. 631.
- Bristol Company, The. (See Bristol and Johnson, assignors.)
- Bristol Company, The. (See Bristol, William H., assignor.)
- Bristol, Cyrus J., assignor of one-half to Globe Machinery and Supply Company, Des Moines, Iowa. Auxiliary water-cooling system for automobiles. No. 1,304,940; May 27; v. 262; p. 565.
- Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Measuring instrument. No. 1,290,890; Jan. 14; v. 258; p. 836.
- Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Gage. No. 1,303,018; May 6; v. 262; p. 103.
- Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Thermometer. No. 1,307,037; June 17; v. 263; p. 402.
- Bristol, Edgar H., assignor to Foxboro Company, Foxboro, Mass. Nozzle for pressure-sensitive devices. No. 1,311,798; July 29; v. 264; p. 829.
- Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Planimeter. No. 1,314,463; Aug. 26; v. 265; p. 578.
- Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Measuring and controlling mechanism. No. 1,326,640; Dec. 30; v. 269; p. 301.
- Bristol, Joseph G., Fargo, N. D. Shield. No. 1,318,477; Oct. 14; v. 267; p. 217.
- Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Thermo-electric couple. No. 1,315,205; Sept. 9; v. 266; p. 144.
- Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Melting metals. No. 1,315,206; Sept. 9; v. 266; p. 144.
- Bristol, William H., Waterbury, and M. J. Johnson, Naugatuck, assignors to The Bristol Company, Waterbury, Conn. Electric furnace. No. 1,323,576; Dec. 2; v. 269; p. 67.
- Bristow, Frederick and S. R., East Orange, N. J. Letter and document distributor. No. 1,316,015; Sept. 16; v. 266; p. 305.
- Bristow, James B., Monroe City, Mo. Lifting-jack. No. 1,317,857; Oct. 7; v. 267; p. 37.
- Bristow, Lemuel C. (See Thill, Frank W., assignor.)
- Bristow, Stanley R. (See Bristow, Frederick and S. R.)
- Britcher, Charles W., and J. R. Vezina, Springfield, Mass. Ticket-registering device. No. 1,291,753; Jan. 21; v. 258; p. 468.
- British American Tobacco Company. (See Teale, Benjamin E., assignor.)
- British Cellulose & Chemical Manufacturing Company. (See Ryan, Alfred, assignor.)
- British & Colonial Aeroplane Company, The. (See Reid, Wilfrid T., assignor.)
- British Enamellite Company, The. (See Goldsmith, John N., assignor.)
- British Potash Company, The. (See Catlett, Charles, assignor.)
- British Westinghouse Electric and Manufacturing Company, The. (See Baumann Karl, assignor.)
- British Westinghouse Electric and Manufacturing Company Limited, The. (See Baumann, Karl, assignor.)
- British Westinghouse Electric & Manufacturing Company, The. (See Scanes, Arthur E. L., assignor.)
- Britt, Charles J., Taunton, Mass. Cuff-button. No. 1,295,109; Feb. 25; v. 259; p. 586.
- Brittain, William J. (See Murphy and Brittain.)
- Brittain, William J., Holdenville, Okla. Measuring device. No. 1,297,649; Mar. 18; v. 260; p. 471.
- Britten, Daniel L., Cleveland, Ohio. Rifle-grenade. No. 1,316,269; Sept. 16; v. 266; p. 352.
- Britten, William G., Fanwood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,296,617; Mar. 11; v. 260; p. 216.
- Britton, Norman. (See Vane and Britton.)
- Britton, Osa L., Denver, Colo. Direction-indicator for use in connection with vehicle direction-signals. No. 1,306,464; June 10; v. 263; p. 264.
- Britton, Samuel B., Paterson, N. J. Safety gas-valve. No. 1,303,156; May 6; v. 262; p. 130.
- Brix, Harold M., assignor to Sharp & Smith, Chicago, Ill. Retractor. No. 1,311,313; July 29; v. 264; p. 739.
- Brixey, Austin D., New York, N. Y., assignor to Ordinator Company, Inc. Shade-harness. No. 1,291,389; Jan. 14; v. 258; p. 351.
- Broad, Charles E., assignor to Stanley Motor Carriage Company, Newton, Mass. Apparatus for utilizing liquid fuels. No. 1,302,505; May 6; v. 262; p. 6.
- Broad, Charles E., assignor to Stanley Motor Carriage Company, Newton, Mass. Water-level indicator. No. 1,308,620; July 1; v. 264; p. 112.
- Broadbent, Alfred L., and R. G. Woodbridge, Jr., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Making propellant powder. No. 1,313,459; Aug. 19; v. 265; p. 354.



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- Broadbent, Thomas, Schenectady, N. Y. Casting apparatus. No. 1,291,390; Jan. 14; v. 258; p. 352.
- Broadbooks, Peter, Batavia, N. Y. Vise. No. 1,317,347; Sept. 30; v. 266; p. 639.
- Broadmack, George, Chicago, Ill. Trench-wire cutter. No. 1,298,449; Mar. 25; v. 260; p. 668.
- Broadway, Prentice C., Asheville, N. C. Armored war apparatus. No. 1,303,764; May 13; v. 262; p. 268.
- Broadwell, Harry M., assignor to Trumbull Electric Mfg. Co., Plainville, Conn. Quick-break switch. No. 1,314,302; Aug. 26; v. 265; p. 548.
- Broady, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Engaging and disengaging gear for ships' boats. No. 1,319,675; Oct. 21; v. 267; p. 471.
- Broas, Richard S. (See Sage, Edwin R., assignor.)
- Brobeck, David W. (See Wills, John B., assignor.)
- Broche, Leon J., Akron, Ohio. Device for distributing and automatically controlling the delivery of liquids. No. 1,293,017; Feb. 4; v. 259; p. 11.
- Brock, Arthur, Jr. (See Holst, Lodewyk J. R., assignor.)
- Brock, Arthur, Jr. (See Holst and Pedersen, assignors.)
- Brock, Arthur, Jr. (See Pedersen, Niels, assignor.)
- Brock, Arthur, Jr., Philadelphia, Pa. Film-camera. No. 1,300,114; Apr. 8; v. 261; p. 367.
- Brock, Arthur, Jr., and L. J. R. Holst, Philadelphia, Pa., assignors to said Brock. Angle fixing and transposing device. No. 1,304,017; May 20; v. 262; p. 352.
- Brock, Fenelon B., Washington, D. C. Coaster-brake. No. 1,299,422; Apr. 8; v. 261; p. 211.
- Brock, Frank P. (See Redman, Weith and Brock.)
- Brock, Frederick C., assignor to The J. P. Gordon Company, Columbus, Ohio. Seat-cover for automobiles. No. 1,303,019; May 6; v. 262; p. 103.
- Brock, Frederick C., assignor to The J. P. Gordon Company, Columbus, Ohio. Covering for backs and seats of automobiles. No. 1,303,020; May 6; v. 262; p. 103.
- Brock, Frederick C., assignor to The J. P. Gordon Company, Columbus, Ohio. Slip-cover. No. 1,303,021; May 6; v. 262; p. 103.
- Brock, Henry E., Hancock, Mich. Basket and package. No. 1,323,621; Dec. 2; v. 269; p. 56.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support controlling and operating mechanism. No. 1,291,754; Jan. 21; v. 258; p. 468.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Hold-down for lasting-machines. No. 1,291,755; Jan. 21; v. 258; p. 469.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. End-wiper mechanism for lasting-machines. No. 1,303,847; May 20; v. 262; p. 322.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. End-lasting mechanism. No. 1,306,247; June 10; v. 263; p. 224.
- Brockbank, Benjamin, Ramsay, Mich. Handle for picks and other tools. No. 1,315,943; Sept. 16; v. 266; p. 292.
- Brockbank, John, deceased; T. W. Garrett, administrator, Sydney, New South Wales, Australia. Process and apparatus of grinding lenses. (Reissue.) No. 1,4751; Nov. 18; v. 268; p. 520.
- Brockest, Lorne H., Winnipeg, Manitoba, Canada. Taper pipe. No. 1,301,096; Apr. 22; v. 261; p. 638.
- Brockett, Bluford W. (See Rowland and Brockett.)
- Brockhausen, Henry F. W., St. Louis, Mo. Apparatus for reducing garbage. No. 1,321,006; Nov. 4; v. 268; p. 122.
- Brockman, Henry F., Lincoln, Calif. Rake-cleaning device. No. 1,305,874; June 3; v. 263; p. 122.
- Brockman, Thomas H., New Orleans, La. Internal-combustion turbine. No. 1,315,906; Sept. 9; v. 266; p. 271.
- Brockton Heel Company. (See Abbott, Harry R., assignor.)
- Brockton Heel Company. (See Bosworth, Wendell P., assignor.)
- Brockton Manufacturing Company. (See Poole, John H., assignor.)
- Brockton Rand Company. (See Lyon, Harry, assignor.)
- Brockway, Carl P., assignor to The Willys-Overland Company, Toledo, Ohio. Spline-shaft spanner-wrench. No. 1,303,157; May 6; v. 262; p. 130.
- Brockway, George A. (See Olafson, Alvin O., assignor.)
- Brod & Company. (See Cresse, Thomas W., assignor.)
- Brod, Samuel, New York, N. Y. Combined letter-sheet and envelop. No. 1,290,891; Jan. 14; v. 258; p. 836.
- Broderick, Cassimir D., Chazy, N. Y. Bull-ring. No. 1,290,062; Jan. 7; v. 258; p. 12.
- Broderick, James F., assignor to Troy Laundry Machinery Company, Chicago, Ill. Drying-tumbler. No. 1,323,673; Dec. 2; v. 269; p. 84.
- Broderon, Jens W., Britton, S. D. Draft-equalizer. No. 1,321,711; Nov. 11; v. 268; p. 319.
- Brodrene Sundt Verktøimaskinfabrik A/S. (See Pettersen and Johansen, assignors.)
- Brodsky, Gregory, London, England. Apparatus for signaling by means of light. No. 1,291,636; Jan. 14; v. 258; p. 410.
- Brodton, Edward R., Washington, D. C., assignor, by mesne assignments, to Sypho-Chemical Sprinkler Corporation, New York, N. Y. Automatic fire-extinguishing apparatus. No. 1,299,548; Apr. 8; v. 261; p. 240.
- Brodton, Edward R., Washington, D. C., assignor, by mesne assignments, to Sypho-Chemical Sprinkler Corporation, New York, N. Y. Automatic fire-extinguishing apparatus. No. 1,303,765; May 13; v. 262; p. 268.
- Brodton, Edward R., Washington, D. C., assignor, by mesne assignments, to Sypho-Chemical Sprinkler Corporation, New York, N. Y. Fire-extinguisher. No. 1,315,279; Sept. 9; v. 266; p. 157.
- Brody, David. (See Perez, Frank M., assignor.)
- Brogan, James A. (See Mayo, Benjamin F., assignor.)
- Brogan, James A., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,295,846; Mar. 4; v. 260; p. 6.
- Brogan, Michael F., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Side-lasting machine. No. 1,291,756; Jan. 21; v. 258; p. 469.
- Brogan, Michael F., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-beating machine. No. 1,306,656; June 10; v. 263; p. 299.
- Brogan, Michael F., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,317,613; Sept. 30; v. 266; p. 691.
- Brogley, Edward B., Mobile, Ala. Packing glass and preservative composition therefor. No. 1,293,684; Feb. 11; v. 259; p. 195.
- Brolch, Joseph. (See Lowenstein and Brolch.)
- Broido, Benjamin, assignor to Locomotive Superheater Company, New York, N. Y. Superheater. No. 1,323,446; Dec. 2; v. 269; p. 42.
- Brokala-Eden Manufacturing Co. (See Eden, Harold W., assignor.)
- Brokaw, James W., Tacoma, and M. L. Dodge, Seattle, Wash., assignors of eighty per cent. to said Brokaw and twenty per cent. to said Dodge. Forming staves and machine therefor. No. 1,322,528; Nov. 25; v. 268; p. 575.
- Broken Hill Associated Smelters Proprietary Limited. (See Brahe, Henry W., assignor.)
- Brokenshire, Arthur R., assignor of one-half to F. J. Goodman, Fenelon Falls, Ontario, Canada. Tire-carrier for motor-cars. No. 1,312,829; Aug. 12; v. 265; p. 216.
- Bromberg, Otto. (See Hottinger and Bromberg.)
- Bromley, William G., Mercer, Pa. Adjustable corn-husking table. No. 1,307,956; June 24; v. 263; p. 602.
- Brong, Wallie J. (See Wright and Brong.)
- Bronner, Frederick H., assignor to The Irwin-Hodson Company, Portland, Ore. Self-feeding inking-pad for rubber stamps and the like. No. 1,321,785; Nov. 11; v. 268; p. 333.
- Brook, Foster S., Wichita, Kans. Combination folding suitcase. No. 1,293,685; Feb. 11; v. 259; p. 195.
- Brook, Solomon, Bronx, N. Y. Burglar-alarm. No. 1,294,867; Feb. 18; v. 259; p. 508.
- Brookby, Harry E., Evanston, Ill. Producing potassium compounds. No. 1,297,078; Mar. 11; v. 260; p. 321.
- Brooke Aircraft Company, The. (See Brooke, Thomas P., assignor.)
- Brooke, Thomas P., Chicago, Ill., assignor to The Brooke Aircraft Company. Flying-boat. No. 1,313,252; Aug. 19; v. 265; p. 315.
- Brooke, Thomas P., Chicago, Ill., assignor to The Brooke Aircraft Company. Aeroplane and wing therefor. No. 1,325,137; Dec. 16; v. 269; p. 467.
- Brooke, William L., Oakland, Calif. Meat and bone cutting machine. No. 1,321,882; Nov. 18; v. 268; p. 402.
- Brooklyn Braid Company. (See Mendelson and Goldfarb, assignors.)
- Brooks, Benjamin T., Pittsburgh, Pa., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of toluene. No. 1,324,143; Dec. 9; v. 269; p. 217.
- Brooks, Chester K. (See Schmidt and Brooks.)
- Brooks, Chester K., Mentor, and E. H. Schmidt, assignors to The National Malleable Castings Company, Cleveland, Ohio. Shock-absorbing mechanism for railway-cars. No. 1,301,809; Apr. 29; v. 261; p. 808.
- Brooks, David W., assignor to Concrete Steel Company, New York, N. Y. Support for metallic reinforcements in concrete construction. No. 1,321,786; Nov. 11; v. 268; p. 333.
- Brooks, Edward, and G. S. Doyle, Atlanta, Ga. Steam-engine. No. 1,294,762; Feb. 18; v. 259; p. 483.
- Brooks, Edward J., East Orange, N. J. Sealing mechanism. No. 1,290,707; Jan. 7; v. 258; p. 168.
- Brooks, Edward J., East Orange, N. J. Strap-tightening tool. No. 1,299,113; Apr. 1; v. 261; p. 114.
- Brooks, Edward J., East Orange, N. J. Box-seal. (Reissue.) No. 1,4649; May 20; v. 262; p. 450.
- Brooks, Edward J., East Orange, N. J. Strap-tightening tool. No. 1,313,669; Aug. 19; v. 265; p. 393.
- Brooks, Frank, Gettysburg, S. D. Automatic gate. No. 1,299,549; Apr. 8; v. 261; p. 240.



- Brooks, Frederick A. and R., Urbana, Ill. Screw-pump. No. 1,306,169; June 10; v. 263; p. 207.
- Brooks, Fredrick W., Virginia, Minn. Rivet-holder. No. 1,317,348; Sept. 30; v. 266; p. 640.
- Brooks, Howard, El Paso, Tex. Air heating and regulating means for internal-combustion engines. No. 1,295,000; Feb. 18; v. 259; p. 538.
- Brooks, Howard, El Paso, Tex. Temperature-regulator. No. 1,313,938; Aug. 26; v. 265; p. 478.
- Brooks, J. L., et al. (See Trembley, David, assignor.)
- Brooks, John K. (See Donaldson, Blossom, and Brooks.)
- Brooks, Robert A., Chicago, Ill. Flushing apparatus for water-closets. No. 1,290,892; Jan. 14; v. 258; p. 236.
- Brooks, Robert A., Chicago, Ill. Flushing apparatus. No. 1,315,207; Sept. 9; v. 266; p. 144.
- Brooks, Roger. (See Brooks, Frederick A. and R.)
- Brooks, Stephen H., Cleveland, Ohio. Automatic fire-extinguishing system. No. 1,307,613; June 24; v. 263; p. 539.
- Brooks, Stephen H., Cleveland, Ohio. Fire-extinguishing inlet for fuel-tanks. No. 1,307,614; June 24; v. 263; p. 539.
- Brooks, Winfred M., West Orange, N. J. Shackle and bag seal. No. 1,310,494; July 22; v. 264; p. 554.
- Broomall, Aubrey L., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,300,243; Apr. 15; v. 261; p. 421.
- Broomall, Aubrey L., Wilkinsburg, and E. G. Tidlund, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Motor structure. No. 1,314,500; Sept. 2; v. 266; p. 4.
- Broomall, Aubrey L., Wilkinsburg, and R. E. Ferris, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,314,501; Sept. 2; v. 266; p. 4.
- Broome, Ernest L., Tarrytown, N. Y., assignor to J. N. Thomas, Pittston, Pa. Sluice-gate. No. 1,306,370; June 10; v. 263; p. 247.
- Broome, Lewis H., Jersey City, N. J. Pin-setter for bowling-alleys. No. 1,290,063; Jan. 7; v. 258; p. 12.
- Broome, William J., Los Angeles, Calif. Automobile-creeper. No. 1,302,301; Apr. 29; v. 261; p. 901.
- Broomhall, Clarence S., Spencer Station, Ohio. Portable sawmill. No. 1,320,197; Oct. 28; v. 267; p. 591.
- Brophy, Jeremiah, Schenectady, N. Y. Counting-scale. No. 1,309,602; July 8; v. 264; p. 323.
- Brophy, John P., Cleveland, Ohio. Sprocket. No. 1,292,242; Jan. 21; v. 258; p. 591.
- Brophy, Oscar, Philadelphia, Pa. Electric induction-furnace. No. 1,296,752; Mar. 11; v. 260; p. 247.
- Bropson, James, Cleveland, Ohio. Roof-flashing. No. 1,299,423; Apr. 8; v. 261; p. 211.
- Brorby, Jacob L., Shenandoah, Iowa. Truck. No. 1,300,567; Apr. 15; v. 261; p. 491.
- Broschart, Jacob L., Trenton, Mo. Pipe-coupling. No. 1,303,848; May 20; v. 262; p. 322.
- Brosi, Henry W. E., Girard, Kans. Mine-car wheel. No. 1,296,914; Mar. 11; v. 260; p. 285.
- Brosius, Edgar E., Pittsburgh, Pa. Machine for charging slabs, billets, &c. No. 1,313,619; Aug. 19; v. 265; p. 384.
- Brothers, Eli, Lynn, Mass., assignor, by mesne assignments to United Shoe Machinery Corporation, Paterson, N. J. Last-pulling machine. No. 1,291,757; Jan. 21; v. 258; p. 469.
- Brotz, Anton. (See Kohler and Brotz.)
- Brough, William R., East Orange, and W. L. Dodge, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,326,475; Dec. 30; v. 269; p. 770.
- Broughton, George H., Toronto, Ontario, Canada. Tire-protector. No. 1,293,322; Feb. 4; v. 259; p. 82.
- Brouillet, Theophile, L'Assomption, Quebec, Canada. Wood-sawing machine. No. 1,323,440; Dec. 2; v. 269; p. 41.
- Brouillette, Peter A., assignor to The Inventions Specialty Company, Sioux City, Iowa. Match-box holder. No. 1,321,414; Nov. 11; v. 268; p. 264.
- Brous, George M., Portland, Oreg. Machine for forming tie-wires. No. 1,315,083; Sept. 2; v. 266; p. 112.
- Broussard, Colins F. (See Prejean, Cleomar, assignor.)
- Brousson, Robert P., London, England. Manufacture of gas. No. 1,313,514; Aug. 19; v. 265; p. 364.
- Brower, Abraham T. H., and S. Moe, Chicago, Ill.; said Moe assignor to said Brower. Printing-press. No. 1,297,997; Mar. 25; v. 260; p. 571.
- Brower, Edward S., Ridgewood, assignor of one-half to C. K. Sanborn, Elizabeth, N. J. Bomb-hopper for aerial craft. No. 1,310,053; July 15; v. 264; p. 442.
- Brower, Howard G., Chattanooga, Tenn. Wrench. No. 1,321,187; Nov. 11; v. 268; p. 219.
- Brower, Ormus E., Fillmore, Utah. Gate. No. 1,294,383; Feb. 18; v. 259; p. 394.
- Brown, Albert M., Spokane, Wash. Animal-trap. No. 1,326,641; Dec. 30; v. 269; p. 301.
- Brown, Alexander T., Syracuse, N. Y. Recording-machine. No. 1,325,138; Dec. 16; v. 269; p. 468.
- Brown, Alexander T., Syracuse, N. Y. Computing-machine. No. 1,325,926; Dec. 23; v. 269; p. 631.
- Brown, Alfred, Crockett, Calif. Garment-greaser. No. 1,324,004; Dec. 2; v. 269; p. 147.
- Brown, Alfred G., Chicago, Ill., assignor to Union Fibre Company, Winona, Minn. Air-cooled storage-house. No. 1,295,422; Feb. 25; v. 259; p. 657.
- Brown, Archie E., assignor of one-tenth to L. Clark, El Paso, Tex. Windmill. No. 1,321,415; Nov. 11; v. 268; p. 264.
- Brown, Arthur J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. No. 1,311,638; July 29; v. 264; p. 799.
- Brown, Arthur J., Union Hill, N. J., and A. A. Somerville, Flushing, N. Y., assignors to New York Belting & Packing Company. Hose-coupling. No. 1,326,250; Dec. 30; v. 269; p. 728.
- Brown, Arthur O., Washington, D. C. Copy-holder. No. 1,321,592; Nov. 11; v. 268; p. 297.
- Brown, Augustus, Havre de Grace, Md. Metallic railway-tie. No. 1,309,455; July 8; v. 264; p. 295.
- Brown Bag Filling Machine Company. (See Falwell, Wray, assignor.)
- Brown, Beriah, Seattle, Wash. Rotary engine. No. 1,296,618; Mar. 11; v. 260; p. 216.
- Brown, Bertrand E., New Haven, Conn. Electrical heating device for watchmakers' use. No. 1,308,655; July 1; v. 264; p. 118.
- Brown, Bessie L., Sheephead Bay, N. Y. Girl's underwaist. No. 1,324,639; Dec. 9; v. 269; p. 313.
- Brown & Bigelow. (See Kristofek, Frank J., assignor.)
- Brown, Blanche W. (See Brown, Gideon P., assignor.)
- Brown, Carl E., Columbus, Ohio. Oil-burner. No. 1,294,039; Feb. 11; v. 259; p. 279.
- Brown, Caroline S. (See Brown, Nicholas C. and C. S.)
- Brown, Charles, Knoxville, assignor of one-third to B. F. Lively and one-third to F. J. Lively, Lenoir City, Tenn. Tire-unwrapping machine. No. 1,306,098; June 10; v. 263; p. 193.
- Brown, Charles A., et al. (See Earl, George G., assignor.)
- Brown, Charles A. (See Johnson, Philip D., assignor.)
- Brown, Charles A. (See Lambert, Frank B., assignor.)
- Brown, Charles A. (See Watkins and Brown.)
- Brown, Charles A. (See Winslow, William H., assignor.)
- Brown, Charles C., Horse Cave, Ky. Mail-bag catcher. No. 1,297,079; Mar. 11; v. 260; p. 321.
- Brown, Charles F. (See Crane, Newton, assignor.)
- Brown, Charles H., El Paso, Tex. Differential. No. 1,294,040; Feb. 11; v. 259; p. 279.
- Brown, Charles J., River Falls, Wis. Antislipping ladder attachment. No. 1,304,018; May 20; v. 262; p. 352.
- Brown, Charles L. (See Webster, Frederick H., assignor.)
- Brown, Charley L., Chandler, Okla. Transmission and automatic clutch-control mechanism. No. 1,299,293; Apr. 1; v. 261; p. 154.
- Brown, Charles S., East Chicago, Ind. Transmission-lock. No. 1,323,447; Dec. 2; v. 269; p. 42.
- Brown, Chauncey L., Northfield, Minn. Tractor device. No. 1,297,536; Mar. 18; v. 260; p. 447.
- Brown, Chesley, Vancouver, British Columbia, Canada. Adjustable rigging-clamp. No. 1,319,562; Oct. 21; v. 267; p. 449.
- Brown, Claude F., assignor to Heco Envelope Company, Chicago, Ill. Machine for attaching fasteners to envelopes. No. 1,324,874; Dec. 16; v. 269; p. 418.
- Brown Company. (See Moore, Hugh K., assignor.)
- Brown Company. (See Moore and Quinn, assignors.)
- Brown Company. (See Moore and Richter, assignors.)
- Brown Company. (See Parker, Howard, assignor.)
- Brown Company. (See Richter, George A., assignor.)
- Brown, Daniel W., Youngstown, Ohio. Pneumatic mat. No. 1,296,359; Mar. 4; v. 260; p. 123.
- Brown, David, New York, N. Y. Compartment-container. No. 1,312,472; Aug. 5; v. 265; p. 116.
- Brown, David B. (See Reid, George H., assignor.)
- Brown, David W., New York, N. Y. Apparatus for receiving Hertzian waves. No. 1,319,989; Oct. 28; v. 267; p. 553.
- Brown, David W., New York, N. Y. Utilizing high-frequency electrical oscillations. No. 1,319,990; Oct. 28; v. 267; p. 553.
- Brown Detachable Disappearing Bed Company. (See Brown, Lanville A., assignor.)
- Brown, E. D. (See Johnson, James A., assignor.)
- Brown, E. E., Mrs. (See Park, Jefferson D., assignor.)
- Brown, Edgar F., Derby, Iowa. Seed-corn hanger. No. 1,314,303; Aug. 26; v. 265; p. 548.
- Brown, Edward L., Alexandria, Va. Oil-burner. No. 1,321,976; Nov. 18; v. 268; p. 419.
- Brown, Elizabeth C., New York, N. Y. Folding bed. No. 1,319,459; Oct. 21; v. 267; p. 430.
- Brown, Ellis E., Reading, Pa. Friction-clutch. No. 1,306,465; June 10; v. 263; p. 264.
- Brown, Emmett J., Detroit, Mich. Engine. No. 1,319,752; Oct. 28; v. 267; p. 508.
- Brown, Eugene, Colfax, Wash. Concrete-mixer. No. 1,314,124; Aug. 26; v. 265; p. 513.
- Brown, Frank D., Detroit, Mich. Tractor-wheel for motor-trucks. No. 1,315,622; Sept. 9; v. 266; p. 218.
- Brown, Frederick, Mount Dennis, Ontario, Canada. Chair. No. 1,320,838; Nov. 4; v. 268; p. 90.
- Brown, Frederick J. (See Roberts, Henry P., assignor.)
- Brown, Fredric C. (See Johnson, Herman U., assignor.)
- Brown, George, South Norwood, England. Measuring-machine. No. 1,321,361; Nov. 11; v. 268; p. 253.



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- Brown, George A., Long Prairie, Minn. Hen's nest. No. 1,319,460; Oct. 21; v. 267; p. 430.
- Brown, George A., assignor to Anthony Liquid Vending Machine Company, Minneapolis, Minn. Attachment for liquid-vending machines. No. 1,303,158; May 6; v. 262; p. 130.
- Brown, George C., Dallas, Tex. Heavier-than-air airship. No. 1,315,084; Sept. 2; v. 266; p. 112.
- Brown, George L., and A. D. Wheeler, Leicester, England. Card-index and like filing appliance. No. 1,317,684; Oct. 7; v. 267; p. 5.
- Brown, George M. (See Shuttleworth and Brown.)
- Brown, George S., Kansas City, Mo., assignor to S. H. Gill, Prescott, Ark. Recorder. No. 1,295,110; Feb. 25; v. 259; p. 586.
- Brown, George W., Cape Elizabeth, Me. Match-lighter for fluid-burning apparatus. No. 1,325,462; Dec. 16; v. 269; p. 527.
- Brown, George W., Fort Terry, N. Y. Winding-drum. No. 1,310,275; July 15; v. 264; p. 483.
- Brown, George W., Portland, Me., assignor to S. J. Dodge, Newcastle, Me. Safety fluid lamp and heater. No. 1,297,650; Mar. 18; v. 260; p. 471.
- Brown, Gideon P., Lake Forest, assignor to B. W. Brown, Lake Bluff, Ill. Hand-hole scraper. No. 1,308,222; July 1; v. 264; p. 40.
- Brown, Gideon P., assignor to B. W. Brown, Lake Bluff, Ill. Hand-hole scraper. No. 1,308,221; July 1; v. 264; p. 39.
- Brown, Glenn C., Taylor Ridge, Ill. Thermometer for radiators. No. 1,310,276; July 15; v. 264; p. 483.
- Brown, Glenn C., Taylor Ridge, Ill. Thermometer for radiators. No. 1,310,321; July 15; v. 264; p. 491.
- Brown, Gouverneur G. (See Dallmeyer and Brown.)
- Brown, Gouverneur G. (See Dallmeyer, Brown, and Schultz.)
- Brown, Gus, et al. (See Trembley, David, assignor.)
- Brown, Hanson and Boettcher. (See Miller, Harry M., assignor.)
- Brown, Harold, Dacoma, Okla. Indicator for engines. No. 1,306,575; June 10; v. 263; p. 284.
- Brown, Harold, assignor to Reynolds Engineering Company, Moline, Ill. Lapping-machine. No. 1,295,962; Mar. 4; v. 260; p. 32.
- Brown, Harold P., New York, N. Y. Mixing concrete and similar cementitious materials. No. 1,297,080; Mar. 11; v. 260; p. 321.
- Brown, Harold P., New York, N. Y. Method of and apparatus for mixing concrete. No. 1,297,081; Mar. 11; v. 260; p. 322.
- Brown, Harold P., New York, N. Y. Apparatus for leveling the surface of plastic walls. No. 1,297,082; Mar. 11; v. 260; p. 322.
- Brown, Harold P., New York, N. Y. Conduit. No. 1,298,878; Apr. 1; v. 261; p. 60.
- Brown, Harry A., Rochester, N. Y. Traffic light-signal. No. 1,319,265; Oct. 21; v. 267; p. 393.
- Brown, Harry E. (See Penwell and Brown.)
- Brown, Harry H., Duluth, Minn. Turnstile. No. 1,294,763; Feb. 18; v. 259; p. 484.
- Brown, Harry M., assignor to Spring Stopper Company, Brooklyn, N. Y. Machine for making bottles. No. 1,292,243; Jan. 21; v. 258; p. 591.
- Brown, Haydn L. (See Maddock, Brown, and Sherman.)
- Brown, Henry F., Minneapolis, Minn. Shield or cover and lock for gasoline-feed valves. No. 1,290,064; Jan. 7; v. 258; p. 12.
- Brown, Herbert L., and C. F. Wheeler, Newport, Me. Cloth-meter. No. 1,295,423; Feb. 25; v. 259; p. 658.
- Brown, Herbert W., Ashland, Ohio. Headlight for automobiles and other vehicles. No. 1,295,424; Feb. 25; v. 259; p. 658.
- Brown, Herbert W., Ashland, Ohio. Headlight. No. 1,303,766; May 13; v. 262; p. 268.
- Brown, Herman M. (See Mannon, Brown, and Perkins.)
- Brown, Horace H., New York, N. Y. Speed-indicator for phonographs. No. 1,293,018; Feb. 4; v. 259; p. 11.
- Brown, Hugh E. (See Brown, John A., assignor.)
- Brown, Hutch R., Drumbeller, Alberta, Canada. Flytrap. No. 1,320,986; Nov. 4; v. 268; p. 118.
- Brown Instrument Company, The. (See Brown and Frey, assignors.)
- Brown Instrument Company, The. (See Brown, Frey, and Wagner, assignors.)
- Brown Instrument Company, The. (See Chapman, Charles F., assignor.)
- Brown Instrument Company, The. (See Heitman, Edwin J., assignor.)
- Brown, Irving A., Sandusky, Ohio. Journal-lubricator. No. 1,309,013; July 8; v. 264; p. 214.
- Brown, Isaac, New York, N. Y. Dental attachment. No. 1,315,085; Sept. 2; v. 266; p. 112.
- Brown, J. D. (See Hohnsbein, George H., assignor.)
- Brown, J. E., et al. (See May, Jesse A., assignor.)
- Brown, J. Ray, et al. (See Leidecker, Helmoth M., assignor.)
- Brown, James, assignor of one-half to C. Feig, Philadelphia, Pa. Attachment for unraveling textile fabrics. No. 1,305,586; June 3; v. 263; p. 69.
- Brown, James D. (See Duke and Brown.)
- Brown, James H. (See Forster and Brown.)
- Brown, James H., Cowes, assignor to J. Samuel White & Company Limited, East Cowes, Isle of Wight, England. Fuel-valve for internal-combustion engines. No. 1,315,462; Sept. 9; v. 266; p. 191.
- Brown, James M., deceased, Grove City, Pa.; M. C. Brown, administratrix. Muffler. No. 1,317,858; Oct. 7; v. 267; p. 38.
- Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Tube-clamp. No. 1,303,249; May 13; v. 262; p. 175.
- Brown, James M., assignor, by mesne assignments, to National Explosive Corporation, Unaka Springs, Tenn. Plastic chlorate explosive. No. 1,309,014; July 8; v. 264; p. 214.
- Brown, James W., Omaha, Nebr. Clinker-tongs. No. 1,313,788; Aug. 19; v. 265; p. 416.
- Brown, James W. G., Mayfield, near Newcastle, New South Wales, Australia. Railway-car coupling of the automatic type. No. 1,326,567; Dec. 30; v. 269; p. 788.
- Brown, John. (See Cowan and Brown.)
- Brown, John A., Camas, Wash., assignor of one-half to H. E. Brown, Portland, Ore. Potato-digging machine. No. 1,298,169; Mar. 25; v. 260; p. 608.
- Brown, John W., Lakewood, Ohio. Apparatus for recovering metal from scrap material. No. 1,301,374; Apr. 22; v. 261; p. 695.
- Brown, John W., Fort Wayne, Ind. Nebulizer for hydrocarbon-engines. No. 1,315,758; Sept. 9; v. 266; p. 242.
- Brown, John W., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Automobile-lamp. No. 1,297,817; Mar. 18; v. 260; p. 402.
- Brown, Joseph A., Philadelphia, Pa. Rain-shield for automobile-hoods. No. 1,298,170; Mar. 25; v. 260; p. 608.
- Brown, Joseph M., Austin, Ark. Tanning process. No. 1,323,956; Dec. 2; v. 269; p. 138.
- Brown, Julius, New York, N. Y. Inking-roller. No. 1,292,244; Jan. 21; v. 258; p. 591.
- Brown, Kirk, Montclair, assignor to Condensite Company of America, Bloomfield, N. J. Apparatus and process involved in chlorination. No. 1,294,230; Feb. 11; v. 259; p. 325.
- Brown, Kirk, Montclair, assignor to Condensite Company of America, Bloomfield, N. J. Composite molding. No. 1,308,330; July 1; v. 264; p. 59.
- Brown, Lanville A., Kansas City, Mo. Rigid bedstead. No. 1,316,764; Sept. 23; v. 266; p. 495.
- Brown, Lanville A., assignor to Brown Detachable Disappearing Bed Company, Kansas City, Mo. Detachable disappearing bed. No. 1,290,893; Jan. 14; v. 258; p. 237.
- Brown, Lee B., Baton Rouge, La. Sign-flasher. No. 1,307,237; June 17; v. 263; p. 437.
- Brown, Lewis R., Pittsfield, Mass., assignor to General Electric Company. Protective device for electrical apparatus. No. 1,310,054; July 15; v. 264; p. 443.
- Brown-Lipe-Chapin Co. (See Ormsby and Logue, assignors.)
- Brown, Lloyd N., Charlotte, N. C. Roofing-tile. No. 1,303,022; May 6; v. 262; p. 104.
- Brown, Louis M. (See Macleod and Brown.)
- Brown, Louis M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning means. No. 1,319,266; Oct. 21; v. 267; p. 393.
- Brown, Louis M., Beverly, and A. A. Macleod, Swampscott, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support for shoe-machines. No. 1,295,963; Mar. 4; v. 260; p. 33.
- Brown, Louis M., deceased; M. E. Brown, administratrix, Beverly, and A. A. Macleod, Swampscott, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Trimming-machine. No. 1,295,964; Mar. 4; v. 260; p. 33.
- Brown, Louis M., Beverly, and A. A. Macleod, Swampscott, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support for shoe-machines. No. 1,295,965; Mar. 4; v. 260; p. 33.
- Brown, Louis O., Toledo, Ohio. Hose-clamp. No. 1,295,001; Feb. 18; v. 259; p. 538.
- Brown, Marcus L., Decatur, Ga. Ventilating apparatus. No. 1,319,267; Oct. 21; v. 267; p. 393.
- Brown, Margaret J., executrix. (See Brown, Perry.)
- Brown, Marvin H., assignor to H. J. McGinnis, R. O'Connor, B. M. Vigoureux, San Francisco, and C. P. Eggleston, Oakland, Calif. Internal-combustion engine. No. 1,304,019; May 20; v. 262; p. 353.
- Brown, Mary C., administratrix. (See Brown, James M.)
- Brown, Maude G., Warren, Pa. Hanger. No. 1,323,957; Dec. 2; v. 269; p. 138.
- Brown, May E., administratrix. (See Brown and Macleod.)
- Brown, May E., administratrix. (See Macleod and Brown.)
- Brown, Minnie H., Hayden, assignor of one-fourth to A. R. Gwynn and one-fourth to M. B. Gwynn, Phoenix, Ariz. Ink-well holder. No. 1,293,019; Feb. 4; v. 259; p. 11.



- Brown, Morris R., and W. L. Martin, assignors to Minnesota Tractor Company, Minneapolis, Minn. Frictional transmission mechanism. No. 1,311,592; July 29; v. 264; p. 791.
- Brown, Mortimer S., Brooklyn, N. Y. Vehicle. No. 1,307,723; June 24; v. 263; p. 559.
- Brown, Nicholas C. and C. S., Mount Vernon, N. Y. Can receiving and piercing device. No. 1,295,425; Feb. 25; v. 259; p. 658.
- Brown, Oscar, Homer, Ga. Collar attachment. No. 1,297,651; Mar. 18; v. 260; p. 471.
- Brown, Oscar W. (See Gantz and Brown.)
- Brown, Oscar W., Abilene, Kans. Welding-stand. No. 1,313,061; Aug. 12; v. 265; p. 262.
- Brown, Perry, Coraopolis, Pa. Draft-rigging. No. 1,299,114; Apr. 1; v. 261; p. 114.
- Brown, Percy, and F. J. Bostock, Huddersfield, England. Gear cutting, generating, or like machine. No. 1,316,825; Sept. 23; v. 266; p. 505.
- Brown, Percy, and F. J. Bostock, Huddersfield, England. Mechanism or mechanical motion for imparting alternate slow and quick motions. No. 1,316,826; Sept. 23; v. 266; p. 506.
- Brown, Percy, and F. J. Bostock, Huddersfield, England. Gear-cutting machine. No. 1,322,872; Nov. 25; v. 268; p. 639.
- Brown, Perley H., assignor to Apsley Rubber Company, Hudson, Mass. Shoe. No. 1,306,996; June 17; v. 263; p. 394.
- Brown, Perry, deceased, Coraopolis, Pa.; M. J. Brown, executrix. Draft-rigging. No. 1,321,712; Nov. 11; v. 268; p. 319.
- Brown, Peter H., Butte, Mont. Washboard-holder. No. 1,326,018; Dec. 23; v. 269; p. 648.
- Brown, Pettis F. (See Tausch, Joseph H., assignor.)
- Brown, Phelps, Springfield, Mass. Igniter. No. 1,300,922; Apr. 15; v. 261; p. 565.
- Brown, Phelps, Springfield, Mass. Igniter. No. 1,307,342; June 24; v. 263; p. 490.
- Brown, Phelps, Springfield, Mass. Igniter. No. 1,307,343; June 24; v. 263; p. 490.
- Brown, Philip. (See Bush, Everett M., assignor.)
- Brown, Philip C., Dover, N. H. Leather-stretching machine. No. 1,299,672; Apr. 8; v. 261; p. 269.
- Brown, Raymond E., Bellevue, assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Rail-clamp for traveling bridges. No. 1,297,083; Mar. 11; v. 260; p. 322.
- Brown, Raymond Q., Kansas City, Mo. Electrolytic cell. No. 1,318,724; Oct. 14; v. 267; p. 264.
- Brown, Richard P., and C. P. Frey, assignors to The Brown Instrument Company, Philadelphia, Pa. Scale mechanism for electrical measuring instruments. No. 1,320,119; Oct. 28; v. 267; p. 577.
- Brown, Richard P., C. P. Frey, and F. Wagner, assignors to The Brown Instrument Company, Philadelphia, Pa. Scale mechanism for electrical measuring instruments. No. 1,320,120; Oct. 28; v. 267; p. 577.
- Brown, Robert, Toledo, Ohio. Engine-muffler. No. 1,290,065; Jan. 7; v. 258; p. 12.
- Brown, Robert G., and J. E. Strietelmeier, Elyria, Ohio. Sheet-metal replayer. No. 1,320,732; Nov. 4; v. 268; p. 70.
- Brown, Robert G., Swarthmore, Pa., and J. E. Strietelmeier, Cincinnati, Ohio; said Brown assignor to said Strietelmeier. Phonograph-repeater. No. 1,322,286; Nov. 18; v. 268; p. 477.
- Brown, Robert J., Springfield, Ill. Window shade and curtain bracket. No. 1,306,099; June 10; v. 263; p. 194.
- Brown, Robert L., and J. A. Carter, Pearsall, Tex. Burner-cap. No. 1,293,686; Feb. 11; v. 259; p. 196.
- Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Metal-working machine. No. 1,311,314; July 29; v. 264; p. 739.
- Brown, Robson D. (See Chubb and Brown.)
- Brown, Roy N., and A. H. Rintelman, Chicago, Ill. Stylus-holder. No. 1,292,575; Jan. 28; v. 258; p. 691.
- Brown, Samuel B., Los Angeles, assignor of one-half to L. E. French, Sebastopol, Calif. Liquid-fuel burner. No. 1,320,374; Nov. 4; v. 268; p. 3.
- Brown and Sharpe Manufacturing Company. (See Knowles, Carroll, assignor.)
- Brown and Sharpe Manufacturing Company. (See Knowles and Tanner, assignors.)
- Brown & Sharpe Manufacturing Company. (See Parker, John, assignor.)
- Brown, Sidney G. (See Perry and Brown.)
- Brown, Sidney G., North Acton, England. Electrical translating device. No. 1,318,535; Oct. 14; v. 267; p. 228.
- Brown Specialty Machinery Co. (See Coburn, Richard G., assignor.)
- Brown, Spencer K., Syracuse, N. Y. Screw-driving machine. No. 1,320,375; Nov. 4; v. 268; p. 4.
- Brown, Steffen A., Yonkers, N. Y. Combined water-tank and force-pump. No. 1,294,041; Feb. 11; v. 259; p. 279.
- Brown, Theodore P., assignor to Simplex Player Action Company, Worcester, Mass. Music-sheet-guiding device. No. 1,303,250; May 13; v. 262; p. 175.
- Brown, Theodore P., assignor to Simplex Player Action Company, Worcester, Mass. Governor for pneumatic player-actions. No. 1,318,350; Oct. 14; v. 267; p. 192.
- Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Wheel for listers. No. 1,318,536; Oct. 14; v. 267; p. 228.
- Brown, Theophilus, assignor, by mesne assignments, to Deere & Company, Moline, Ill. Corn-sheller. No. 1,323,522; Dec. 2; v. 269; p. 56.
- Brown, Theophilus, and C. G. Strandlund, assignors to Deere & Company, Moline, Ill. Lever. No. 1,313,253; Aug. 19; v. 265; p. 315.
- Brown, Theophilus M., Seattle, Wash. Nut-tightener. No. 1,312,889; Aug. 12; v. 265; p. 227.
- Brown, Thomas E., New York, N. Y. Bascule-bridge. No. 1,302,302; Apr. 29; v. 261; p. 901.
- Brown, Thomas E., New York, N. Y. Hydraulic transmission. No. 1,323,577; Dec. 2; v. 269; p. 67.
- Brown, Thomas R. (See Dewson and Brown.)
- Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric-train-line coupling. No. 1,290,066; Jan. 7; v. 258; p. 13.
- Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car and electric-train-line coupling. No. 1,290,708; Jan. 7; v. 258; p. 168.
- Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Coupling for electric train-line circuits. No. 1,292,428; Jan. 28; v. 258; p. 655.
- Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car and electric coupling. No. 1,316,415; Sept. 16; v. 266; p. 380.
- Brown, Thomas W., Chicago, Ill. Mouth-protector. No. 1,302,004; Apr. 29; v. 261; p. 846.
- Brown, Wade H. (See Jacobs, Brown, Heidelberger, and Pearce.)
- Brown, Walter. (See Kleckner and Brown.)
- Brown, Walter, assignor, by mesne assignments, to Webster Electric Company, Racine, Wis. Brush-holder and conductor-terminal. No. 1,314,182; Aug. 26; v. 265; p. 524.
- Brown, Walter A., assignor of one-half to F. G. White, Los Angeles, Calif. Separating hydrocarbons from water. No. 1,309,794; July 15; v. 264; p. 395.
- Brown, Watson A., Rochester, N. Y. Marking means for sensitized material. No. 1,315,655; Sept. 9; v. 266; p. 224.
- Brown, William. (See Mylchreest and Brown.)
- Brown, William, Peterborough, England. Wheel for road-vehicles or the like. No. 1,315,280; Sept. 9; v. 266; p. 158.
- Brown, William A., and J. Brannan, Denver, Colo. Chain-grate-supporting structure. No. 1,295,685; Feb. 25; v. 259; p. 719.
- Brown, William C., Niles, Ohio. Valve-grinder. No. 1,314,851; Sept. 2; v. 266; p. 70.
- Brown, William C., assignor to E. N. Trump, Syracuse, N. Y. Combustion system. No. 1,326,642; Dec. 30; v. 269; p. 802.
- Brown, William H., Hastings, Nebr. Collapsible sign and lighting post. No. 1,307,655; June 24; v. 263; p. 547.
- Brown, William H., Cleveland, Ohio. Oil-cup. No. 1,308,331; July 1; v. 264; p. 59.
- Brown, William H., Chicago, Ill. Differential mechanism. No. 1,308,520; July 1; v. 264; p. 93.
- Brown, William H., Cleveland, Ohio. Knitting-needle. No. 1,313,461; Aug. 19; v. 265; p. 354.
- Brown, William H., Philadelphia, assignor to Phillips-Brinton Company, Kennett Square, Pa. Electric connection. No. 1,298,879; Apr. 1; v. 261; p. 60.
- Brown, William J., Macon, Ga. Valve. No. 1,306,576; June 10; v. 263; p. 284.
- Brown, William J., Pittsburgh, Pa. Wall-paper-removing machine. No. 1,313,462; Aug. 19; v. 265; p. 354.
- Brown, William J., assignor to Splittorf Electrical Company, Newark, N. J. Coupling device. No. 1,295,686; Feb. 25; v. 259; p. 719.
- Browne, John A., Savannah, Ga. Hawser-conveyer. No. 1,295,847; Mar. 4; v. 260; p. 6.
- Browne, Charles W., et al. (See Macdonald, James R., assignor.)
- Browne, Cyril V., Mt. Eden, Auckland, New Zealand. Beverage. No. 1,310,277; July 15; v. 264; p. 483.
- Browne, Frank A., Buffalo, N. Y., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Tandem roller. No. 1,322,092; Nov. 18; v. 268; p. 440.
- Browne, Herbert J., et al. (See Baumann, Frederick, assignor.)
- Browne, Herbert J., et al. (See Baumann, Leopold, Sr., and F., assignors.)
- Browne, Warren A., Hempstead, N. Y. Toy. No. 1,290,067; Jan. 7; v. 258; p. 13.
- Browne, William G., Denver, Colo. Shipping-box. No. 1,309,877; July 15; v. 264; p. 411.
- Brownell, Don Carlos, Seward, Alaska. Bedstead and attachment. No. 1,311,211; July 29; v. 264; p. 720.
- Brownell, William C., Pueblo, Colo. Windmill. No. 1,297,084; Mar. 11; v. 260; p. 322.
- Browning, Andrew, assignor to The Hirst-Roger Company, Philadelphia, Pa. Loom. No. 1,309,997; July 15; v. 264; p. 433.



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- Browning, Edna A., Chicago, Ill. Window-cleaner. No. 1,304,736; May 27; v. 262; p. 527.
- Browning, George W. (See Stratton, Charles D., assignor.)
- Browning, Hugh K., Richmond, Va. Cement-brick machine. No. 1,294,042; Feb. 11; v. 259; p. 280.
- Browning, John M., Ogden, Utah. Mount for machine-guns. No. 1,293,020; Feb. 4; v. 259; p. 11.
- Browning, John M., Ogden, Utah. Automatic machine-gun. No. 1,293,021; Feb. 4; v. 259; p. 12.
- Browning, John M., Ogden, Utah. Automatic machine-rifle. No. 1,293,022; Feb. 4; v. 259; p. 12.
- Browning, John M., Ogden, Utah, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Cartridge-carrier. No. 1,301,810; Apr. 29; v. 261; p. 809.
- Browning, John R., Deer Park, Md. Pedal attachment for automobiles. No. 1,316,416; Sept. 16; v. 266; p. 380.
- Browning, Samuel H., Columbus, Ohio. Coll-shaping machine. No. 1,297,998; Mar. 25; v. 260; p. 572.
- Browning, Walter H., Wembley, England. Ink-ribbon feed and similar reversing mechanism. No. 1,303,159; May 6; v. 262; p. 130.
- Browning, Walter H., Wembley, England. Take-up or winding mechanism for fabrics or the like. No. 1,324,724; Dec. 9; v. 269; p. 329.
- Browning, William E., Wellsville, N. Y. Cooking utensil. No. 1,304,448; May 20; v. 262; p. 434.
- Brownlee, Roy H., Pittsburgh, Pa. Treating hydrocarbon oils. No. 1,308,161; July 1; v. 264; p. 28.
- Brownlee, Roy H., Pittsburgh, Pa. Manufacturing lubricating-oils and products thereof. No. 1,309,432; July 8; v. 264; p. 291.
- Brownlee, Roy H., Pittsburgh, Pa. Treatment of hydrocarbon oils. No. 1,320,376; Nov. 4; v. 268; p. 4.
- Brownlee, Roy H., Pittsburgh, Pa. Apparatus for treating hydrocarbon oils. No. 1,325,927; Dec. 23; v. 269; p. 631.
- Broxton, William T. (See Waggoner, Zachariah H., assignor.)
- Bruah, Howard R., assignor to Motor Development Company, Chicago, Ill. Convertible truck. No. 1,290,709; Jan. 7; v. 258; p. 169.
- Brubaker, Carl F. (See Brubaker, Don A., E., C. F., and M. W.)
- Brubaker, Charity H., administratrix. (See Brubaker, Samuel H.)
- Brubaker, Don A., E., C. F., and M. W., Los Angeles, Calif. Eye-shade. No. 1,319,639; Oct. 21; v. 267; p. 465.
- Brubaker, Elizabeth. (See Brubaker, Don A., E., C. F., and M. W.)
- Brubaker, Judd H., White Rock, S. D. Internal-combustion engine. No. 1,323,737; Dec. 2; v. 269; p. 96.
- Brubaker, Judd H., White Rock, S. D. Internal-combustion engine. No. 1,323,738; Dec. 2; v. 269; p. 96.
- Brubaker, Max W. (See Brubaker, Don A., E., C. F., and M. W.)
- Brubaker, Samuel H., deceased; C. H. Brubaker, administratrix, assignor of one-fourth to J. V. Dittmore, Indianapolis, Ind. Apparatus for transporting perishable articles. No. 1,297,318; Mar. 18; v. 260; p. 403.
- Bruce, Baxter H., U. S. Navy. Automobile-signal. No. 1,307,038; June 17; v. 263; p. 402.
- Bruce, Claude L., et al. (See Hughes, John L., assignor.)
- Bruce, Cyrus M., Ewing, Ky. Valve-grinding tool. No. 1,310,278; July 15; v. 264; p. 483.
- Bruce, George W., Larimore, N. D. Potato-harvester. No. 1,296,475; Mar. 4; v. 260; p. 147.
- Bruce, Herbert F., Chicago, Ill., assignor, by mesne assignments, to Oshkosh Trunk Company, Oshkosh, Wis. Wardrobe-trunk. No. 1,323,246; Dec. 2; v. 269; p. 4.
- Bruce, William M., Jr., Springfield, Ohio. Telegraphy. No. 1,317,859; Oct. 7; v. 267; p. 38.
- Bruch, Charles V. (See Shearer and Bruch.)
- Bruchas, Joseph, Chicago, Ill. Curtain-pole hanger. No. 1,299,673; Apr. 8; v. 261; p. 269.
- Brucker, Ferdinand F., Akron, Ohio. Valve-fishing tool. No. 1,308,219; July 1; v. 264; p. 39.
- Brucker, Ferdinand F., assignor to The Miller Rubber Company, Akron, Ohio. Making tires. No. 1,320,121; Oct. 28; v. 267; p. 577.
- Bruckman, Frederick A., Portland, Oreg. Boxing mechanism for ice-cream-cone machines. No. 1,302,893; May 6; v. 262; p. 79.
- Bruda, John, Detroit, Mich. Harness. No. 1,314,464; Aug. 26; v. 265; p. 579.
- Bruckner, Julius R., Wilkinsburg, assignor to The Gibb Instrument Company, Pittsburgh, Pa. Instrument for determining critical temperatures. No. 1,323,824; Dec. 2; v. 269; p. 113.
- Bruggeman, George F. A., St. Louis, Mo. Door. No. 1,312,155; Aug. 5; v. 265; p. 57.
- Brueshaber, Martin W., Oak Park, assignor to The Goss Printing Press Company, Chicago, Ill. Folder. No. 1,302,894; May 6; v. 262; p. 79.
- Brueske, Ferdinand. (See Haskell, Brueske, and Palmer.)
- Bruhn, Friedrich W. G., Berlin, Germany. Tachimeter. No. 1,306,046; June 10; v. 263; p. 184.
- Bruhy, Alexander F., West Bend, Wis. Phonograph-stop. No. 1,316,138; Sept. 16; v. 266; p. 328.
- Brull, Eugene C., Oak Park, Ill. Filing-machine. No. 1,322,873; Nov. 25; v. 268; p. 639.
- Brull, Eugene C., Oak Park, Ill. Cream and egg whipper. No. 1,322,874; Nov. 25; v. 268; p. 639.
- Brune, Arthur, and C. H. Stone, Coleville, Tex. Cotton-cleaning machine. No. 1,303,160; May 6; v. 262; p. 130.
- Brune, Raymond E., Greenfield, Ind. Corn-turner. No. 1,318,963; Oct. 14; v. 267; p. 310.
- Brunel, Fred A., Hempstead, N. Y. Burglar-alarm. No. 1,296,262; Mar. 4; v. 260; p. 101.
- Bruner, Earl M., and E. J. Otto, Mitchell, Nebr. Exhaust and intake manifold for carburetors for burning heavy oils. No. 1,296,313; Mar. 4; v. 260; p. 113.
- Bruner, Louis N., Zurich, Switzerland. Grinding-machine. No. 1,301,375; Apr. 22; v. 261; p. 695.
- Bruner, Louis N., Zurich, Switzerland. Machine for grinding glass bottles and other articles. No. 1,301,376; Apr. 22; v. 261; p. 696.
- Bruner, Louis N., Zurich, Switzerland. Machine for grinding or truing bottle-stoppers and other articles. No. 1,301,377; Apr. 22; v. 261; p. 696.
- Bruner, Louis N., Zurich, Switzerland. Grinding-machine. No. 1,302,506; May 6; v. 262; p. 6.
- Bruner, Louis N., Zurich, Switzerland, and S. D. Olsen, Hunslet, Leeds, England. Apparatus for manufacturing hollow glassware. No. 1,301,378; Apr. 22; v. 261; p. 696.
- Brunette, Louis, Quebec, Quebec, Canada, assignor of one-half to F. H. French. Automatic release mechanism for vestibule-curtains. No. 1,323,007; Nov. 25; v. 268; p. 684.
- Brungard, John C., Callister, Wyo. Leg-rest. No. 1,297,537; Mar. 18; v. 260; p. 447.
- Bruning, William G., Fremont, Nebr. Adjustable twine-holder. No. 1,295,111; Feb. 25; v. 259; p. 586.
- Bruning, John H. (See Dobyne and Bruning.)
- Brunker, George N., Pocatello, Idaho. Seat. No. 1,315,086; Sept. 2; v. 266; p. 112.
- Brunner, Albert H., Marion, Ill. Cooking utensil. No. 1,316,827; Sept. 23; v. 266; p. 506.
- Brunner, Albert H., Marion, Ill. Telephone-directory. No. 1,319,563; Oct. 21; v. 267; p. 450.
- Brunner, Elmer F. (See Hale and Brunner.)
- Brunner, Jay D., Los Angeles, Calif. Concrete flue-vent. No. 1,297,652; Mar. 18; v. 260; p. 471.
- Brunner, John, Evanston, Ill. Antipiping means for ingot-molds. No. 1,315,944; Sept. 16; v. 266; p. 292.
- Brunner, Joseph E., Leopolds, Wis. Concrete-form for hipped roofs. No. 1,303,251; May 13; v. 262; p. 175.
- Brunner Manufacturing Company. (See Parker, George A., assignor.)
- Bruno, Joseph C., Buffalo, N. Y. Cutting-tool holder. No. 1,293,687; Feb. 11; v. 259; p. 196.
- Brunswick-Balke-Collender Company, The. (See Bultman, Cyrus C., assignor.)
- Brunswick-Balke-Collender Company, The. (See Davenport, Harmon F., assignor.)
- Brunswick-Balke-Collender Company, The. (See Duffy, Thomas H., assignor.)
- Brunswick-Balke-Collender Company, The. (See Treiber, Theodore R., assignor.)
- Brunswick, Frank P. A., et al. (See Kaupert, George, assignor.)
- Brunt Tile and Porcelain Company, The. (See McKnight, Oscar W., assignor.)
- Brunton, David W., Denver, Colo. Apparatus for locating snipers and for other purposes. No. 1,308,474; July 1; v. 264; p. 85.
- Brunzel, Paul G., New York, N. Y. Propelling mechanism. No. 1,312,679; Aug. 12; v. 265; p. 187.
- Brusch, Friedrich W., and W. F. J. Beyer, Dortmund, assignors to Deutsche-Luxemburgische Bergwerks-und Hütten-Aktiengesellschaft, Bochum, Germany. Subaqueous torch and igniting. No. 1,298,880; Apr. 1; v. 261; p. 60.
- Brusewitz, Frank A., Duluth, Minn. Road-grading machine. No. 1,299,907; Apr. 8; v. 261; p. 322.
- Brush, Alanson P., Detroit, Mich. Transmission mechanism for automobiles. No. 1,291,391; Jan. 14; v. 258; p. 352.
- Brush, Alanson P., Detroit, Mich. Internal-combustion engine. No. 1,299,674; Apr. 8; v. 261; p. 269.
- Brush, Alanson P., Detroit, Mich. Carbureter. No. 1,304,449; May 20; v. 262; p. 434.
- Brush, Alanson P., Detroit, Mich. Differential mechanism. No. 1,314,568; Sept. 2; v. 266; p. 18.
- Brush, Alanson P., Detroit, Mich. Front-axle construction. (Reissue.) No. 14,750; Nov. 11; v. 268; p. 336.
- Brush, Gerome, Dublin, N. H. System for reducing the visibility of objects. No. 1,296,753; Mar. 11; v. 260; p. 248.
- Brush, Mittie T., Dublin, N. H. Aircraft. No. 1,293,688; Feb. 11; v. 259; p. 196.
- Brushwood, Hubert W. C., Denver, Col. Fastener for half-soles. No. 1,290,068; Jan. 7; v. 258; p. 13.
- Bruss, Adolf M., Central Butte, Saskatchewan, Canada. Switch-governor. No. 1,301,222; Apr. 22; v. 261; p. 665.
- Brussard, Martin, Los Angeles, Calif. Hydrocarbon-burner. No. 1,303,252; May 13; v. 262; p. 176.
- Brussel, Richard, New York, N. Y. Cuff. No. 1,297,538; Mar. 18; v. 260; p. 447.



- Bruton, William B., *et al.* (See Eubanks, Sayers D., assignor.)
- Bryure, Mose, Green Bay, Wis. Crutch and cushion-tip therefor. No. 1,319,564; Oct. 21; v. 267; p. 450.
- Bryan, Bailey T., assignor to The Stenotype Company, Indianapolis, Ind. Keyboard for stenographic type-writing machines. No. 1,294,611; Feb. 18; v. 259; p. 447.
- Bryan, Columbus, Prineville, Oreg. Clutch control. No. 1,312,384; Aug. 5; v. 265; p. 99.
- Bryan, Daniel R., Chatham, N. J. Pulley and belting. No. 1,290,894; Jan. 14; v. 258; p. 237.
- Bryan, Daniel R., Chatham, N. J. Apparatus for separating and recovering domestic refuse. No. 1,290,895; Jan. 14; v. 258; p. 237.
- Bryan, Frank C., Newton, and C. M. Anderson, assignors to Perkins Institution and Massachusetts School for the Blind, Boston, Mass. Paper-holder for the use of the blind. No. 1,293,023; Feb. 4; v. 259; p. 12.
- Bryan, George A., Albuquerque, N. Mex. Firing system for steam-boilers. No. 1,316,680; Sept. 23; v. 266; p. 479.
- Bryan, Harry. (See Davis and Bryan.)
- Bryan, Harry F. (See Robbins and Bryan.)
- Bryan, Henrietta M., Three Bridges, N. J. Clothespin. No. 1,318,261; Oct. 7; v. 267; p. 115.
- Bryan, John K. (See Aldrich and Bryan.)
- Bryan, Robert W., Aberdeen, Wash. Shock-absorber for automobiles. No. 1,302,630; May 6; v. 262; p. 28.
- Bryant, Augustus H., Glen Ridge, N. J. Safety-razor blade. No. 1,309,456; July 8; v. 264; p. 295.
- Bryant, Clarence R., Memphis, Tenn., assignor, by mesne assignments, to B. Byrns, Chicago, Ill. Packing-ring. No. 1,309,609; July 15; v. 264; p. 362.
- Bryant, Corwin W., Minneapolis, Minn. Pneumatic brake and clutch controller for automobiles. No. 1,297,999; Mar. 25; v. 260; p. 572.
- Bryant Electric Company. (See Goodridge, Gilbert W., assignor.)
- Bryant Electric Company, The. (See Stacey, William A., assignor.)
- Bryant, Elmer J., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Sine-bar fixture. No. 1,303,633; May 13; v. 262; p. 243.
- Bryant, Elmer J., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Plug-gage. No. 1,4743; Oct. 28; v. 267; p. 624.
- Bryant, Henry E. (See Boyer and Bryant.)
- Bryant, Herbert J., New York, N. Y. Table. No. 1,319,753; Oct. 28; v. 267; p. 509.
- Bryant, Hubert C., Hartford, Conn. Brake for talking-machines. No. 1,300,568; Apr. 15; v. 261; p. 491.
- Bryant, Hugo S., and F. Miller, Atchison, Kans. Grain-door. No. 1,293,024; Feb. 4; v. 259; p. 12.
- Bryant, Marvin H. (See Dudley and Bryant.)
- Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Rim for vehicle-wheels. No. 1,301,097; Apr. 22; v. 261; p. 639.
- Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Rim for vehicle-wheels. No. 1,310,603; July 22; v. 264; p. 574.
- Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Rim for vehicle-wheels. No. 1,313,981; Aug. 26; v. 265; p. 486.
- Bryant, Richard S., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Rim for vehicle-wheels. No. 1,322,529; Nov. 25; v. 268; p. 575.
- Bryant, Richard S., deceased; O. H. Jobski, special administrator, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Machine for forming transsplit rims. No. 1,303,849; May 20; v. 262; p. 322.
- Bryant, Richard S., deceased; O. H. Jobski, Cleveland, and J. H. Griswold, East Cleveland, special administrators, assignors, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Forming driving-logs on felly-bands, rims, and the like. No. 1,318,048; Oct. 7; v. 267; p. 74.
- Bryant, Stanley C., assignor to Bryant Zinc Company, Chicago, Ill. Time-controlled highway-crossing alarm. No. 1,296,360; Mar. 4; v. 260; p. 123.
- Bryant, Stanley C., assignor to Bryant Zinc Company, Chicago, Ill. Highway-crossing signal. No. 1,296,361; Mar. 4; v. 260; p. 123.
- Bryant, Stanley C., assignor to Bryant Zinc Company, Chicago, Ill. Lightning-arrester. No. 1,296,362; Mar. 4; v. 260; p. 123.
- Bryant, William A., Wetumpka, Ala. Wrench. No. 1,317,546; Sept. 30; v. 266; p. 678.
- Bryant, William L., Springfield, Vt. Machine for grinding metal. No. 1,290,896; Jan. 14; v. 258; p. 238.
- Bryant, William L., Springfield, Vt. Grinding-tool. No. 1,290,897; Jan. 14; v. 258; p. 238.
- Bryant, William L., Springfield, Vt. Grinding-machine. No. 1,300,923; Apr. 15; v. 261; p. 565.
- Bryant Zinc Company. (See Bryant, Stanley C., assignor.)
- Bryce, Chalmers K., Cranford, assignor to Oxweld Acetylene Company, Newark, N. J. Plate-cutting apparatus. No. 1,217,425; Sept. 30; v. 266; p. 654.
- Bryce, James W., Bloomfield, N. J. Time-indicating system. No. 1,298,000; Mar. 25; v. 260; p. 572.
- Bryce, James W., Bloomfield, N. J. Clock-winding mechanism. No. 1,299,116; Apr. 1; v. 261; p. 114.
- Bryce, James W., Bloomfield, N. J. Computing-scale. No. 1,314,631; Sept. 2; v. 266; p. 30.
- Bryce, James W., Binghamton, N. Y. Synchronizing clock system. No. 1,310,782; July 22; v. 264; p. 608.
- Bryce, James W., Binghamton, N. Y. Synchronizing clock system. No. 1,310,784; July 22; v. 264; p. 608.
- Bryce, James W., Binghamton, N. Y. Synchronizing clock system. No. 1,310,785; July 22; v. 264; p. 609.
- Bryce, James W., Bloomfield, N. J., assignor to The Aeolian Company. Expression-device control. No. 1,305,191; May 27; v. 262; p. 613.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, New York, N. Y. Synchronizing clock system. No. 1,310,779; July 22; v. 264; p. 607.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, New York, N. Y. Synchronizing clocks. No. 1,310,780; July 22; v. 264; p. 607.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, New York, N. Y. Synchronous clock system. No. 1,310,781; July 22; v. 264; p. 608.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, New York, N. Y. Synchronizing clock. No. 1,310,783; July 22; v. 264; p. 608.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, New York, N. Y. Synchronizing clock system. No. 1,310,786; July 22; v. 264; p. 609.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, New York, N. Y. Synchronizing clock system. No. 1,310,787; July 22; v. 264; p. 609.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, New York, N. Y. Synchronizing clock system. No. 1,310,788; July 22; v. 264; p. 609.
- Bryce, James W., Binghamton, assignor to International Time Recording Company of New York, New York, N. Y. Clock-synchronizing device. No. 1,310,789; July 22; v. 264; p. 609.
- Bryce, James W., Bloomfield, N. J., assignor to Computing-Tabulating-Recording Company, New York, N. Y. Weighing apparatus. No. 1,318,062; Aug. 12; v. 265; p. 262.
- Bryden, James. (See Jones, Bryden, and Mowbray.)
- Bryndolt, Christian, Pittsburgh, Pa., assignor to Blaw Steel Construction Company. Method and apparatus for constructing arches. No. 1,293,006; Feb. 4; v. 259; p. 8.
- Bryndolt, Christian, Pittsburgh, Pa., assignor to Blaw-Knox Company. Apparatus for constructing concrete walls. No. 1,298,450; Mar. 25; v. 260; p. 668.
- Brynteson, Brynte, Odebolt, Iowa. Pump-operating mechanism. No. 1,319,640; Oct. 21; v. 267; p. 465.
- Brynteson, Brynte, Odebolt, Iowa. Pump-operating mechanism. No. 1,319,641; Oct. 21; v. 267; p. 465.
- Bryson, Tandy A., Troy, N. Y., assignor to Tollhurst Machine Works. Centrifugal machine. No. 1,298,451; Mar. 25; v. 260; p. 668.
- Bryson, Tandy A., Troy, N. Y., assignor to Tollhurst Machine Works. Centrifugal drying-machine. No. 1,311,871; Aug. 5; v. 265; p. 4.
- Bryson, Walter S., *et al.* (See Kennedy, James W., assignor.) (Reissue.)
- Bubb, Clarence A., assignor to The Korket Company, Detroit, Mich. Flush-valve. No. 1,307,576; June 24; v. 263; p. 533.
- Bubb, Clarence A., assignor of one-half to P. H. Rich, Detroit, Mich. Valve for flush-tanks. No. 1,309,507; July 8; v. 264; p. 305.
- Bubble-Column Corporation. (See Towne and Flinn, assignors.)
- Bubenheim, Henry J., Pittsburgh, Pa. Car-truck. No. 1,314,183; Aug. 26; v. 265; p. 524.
- Bublitz, Charles W., Richmond Hill, N. Y., assignor to Frederick Osann Company. Article of manufacture. No. 1,303,536; May 13; v. 262; p. 226.
- Bublitz, Emil, Irvington, N. J. Combined antirattling safety-lock and ventilating device for windows. No. 1,295,426; Feb. 25; v. 259; p. 658.
- Bublitz, Frank H., Chicago, Ill. Bicycle. No. 1,304,450; May 20; v. 262; p. 435.
- Bucey, Albert, Bowerstown, Ohio. Mine apparatus. No. 1,294,868; Feb. 18; v. 259; p. 508.
- Buch, John E., York, Pa. Mechanically-operated settling device. No. 1,919,511; Oct. 21; v. 267; p. 440.
- Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Top for vehicles and the like. No. 1,290,069; Jan. 7; v. 258; p. 13.
- Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Top for vehicles and the like. No. 1,290,070; Jan. 7; v. 258; p. 14.



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- Buch, Max, Detroit, assignor to H. E. Edwards, Jackson, Mich. Folding top for vehicles and the like. No. 1,316,938; Sept. 23; v. 266; p. 526.
- Buch, Royer S., York, Pa. Molder's flask. No. 1,290,071; Jan. 7; v. 258; p. 14.
- Buchan, Hugh G., Woodbridge, N. J. Index. No. 1,294,043; Feb. 11; v. 259; p. 280.
- Buchanan, C. G. (See La Boiteaux Frank M., assignor.)
- Buchanan, Clarence H., Washington, D. C. Foot-warmer. No. 1,307,615; June 24; v. 263; p. 540.
- Buchanan, Edward R., Paducah, Ky. Air-pump for pneumatic tires. No. 1,316,417; Sept. 16; v. 266; p. 380.
- Buchanan, Frank, Syracuse, N. Y. Switch. No. 1,304,655; May 27; v. 262; p. 512.
- Buchanan, Fred, Des Moines, Iowa. Stake-pulling machine. No. 1,299,294; Apr. 1; v. 261; p. 154.
- Buchanan, George T., Winoosboro, S. C. Airplane. No. 1,299,117; Apr. 1; v. 261; p. 115.
- Buchanan, Guy H., Roselle, N. J., assignor to American Cyanamid Company, New York, N. Y. Recovering hydrocyanic acid. No. 1,317,755; Oct. 7; v. 267; p. 18.
- Buchanan, Ira R., Yelm, Wash. Valve-lifting tool. No. 1,307,772; June 24; v. 263; p. 568.
- Buchanan, Judson, Chattanooga, Tenn. Cane-mill. No. 1,309,015; July 8; v. 264; p. 214.
- Buchanan, Samuel T., and H. T. Porter, assignors to A. K. S. Mfg. Co., Aberdeen, S. D. Antislipping device. No. 1,292,698; Jan. 28; v. 258; p. 721.
- Buchek, Joseph, Oak Park, Ill. Safety-valve mechanism and pressure-gage. No. 1,308,037; July 1; v. 264; p. 6.
- Buchek, Joseph, Oak Park, Ill. Vending device. No. 1,309,998; July 15; v. 264; p. 433.
- Buchel, Jules, New Orleans, La., assignor to W. J. Kelly, Haverford, Pa. Pressure-controlling device. No. 1,305,059; May 27; v. 262; p. 588.
- Buchenberg, Alvin E., Toledo, Ohio, assignor to Toledo Steel Barrel Company. Welding-machine. No. 1,322,479; Nov. 18; v. 268; p. 514.
- Bucher, William W., Chicago, Ill., assignor to Electromatic System Company, Portland, Me. Ignition and load control. No. 1,292,699; Jan. 28; v. 258; p. 721.
- Bucher, William W., Chicago, Ill., assignor to Electromatic System Company, Portland, Me. Automatic engine control for internal-combustion power units. No. 1,324,793; Dec. 16; v. 269; p. 404.
- Bucherer, Max, assignor of one-half to the Firm of Robur-Motoren-Gesellschaft m. b. H., Berlin-Reinickendorf, Germany. Fuel-atomizer. No. 1,322,093; Nov. 18; v. 268; p. 440.
- Buchholz, Frank W. (See Grover, George, assignor.)
- Buchli, Jacob, assignor to A. G. Brown Boveri & Cie, Baden, Switzerland. Shaft-coupling. No. 1,298,881; Apr. 1; v. 261; p. 61.
- Buchli, Jacob, assignor to A. G. Brown Boveri & Cie, Baden, Switzerland. Toothed-wheel driving mechanism of electric locomotives. No. 1,326,568; Dec. 30; v. 269; p. 789.
- Buchli, Jakob, assignor to A. G. Brown Boveri & Cie, Baden, Switzerland. Driving mechanism for electric locomotives. No. 1,296,754; Mar. 11; v. 260; p. 248.
- Buchmann, A. G. (See Winkelman, William, assignor.)
- Buchner, Louis F. A. (See Greene and Buchner.)
- Buchsbaum, Samuel, Chicago, Ill., assignor to Gordon Electric and Manufacturing Co., Waterville, Conn. Switch-movement. No. 1,295,966; Mar. 4; v. 260; p. 34.
- Buchsbaum, Samuel, Chicago, Ill., assignor to Gordon Electric and Manufacturing Company, Waterville, Conn. Socket-shell. No. 1,319,642; Oct. 21; v. 267; p. 465.
- Buchtel, Ralph S., et al. (See Whitcomb, James, assignor.)
- Buchwald, Carl, Berlin, P. Quieser, Friedenau, near Berlin, and H. Viertel, Lichtenberg, near Berlin, assignors to Gebrüder Siemens & Co., Berlin, Germany. Negative electrode for search-lights, projectors, and the like. No. 1,302,895; May 6; v. 262; p. 80.
- Buck, Arthur W., St. Louis, Mo. Container for X-ray films. No. 1,293,323; Feb. 4; v. 259; p. 82.
- Buck, Charles P., Topeka, Kans. Sheet-metal-bending machine. No. 1,317,264; Sept. 30; v. 266; p. 624.
- Buck, Frank E., Baltimore, Md. Buckle-retainer. No. 1,323,008; Nov. 25; v. 268; p. 665.
- Buck, Frank S., Springfield, Vt., assignor, by mesne assignments, to Fitz-Empire Double Pivot Last Co., Rochester, N. Y. Grading mechanism for pattern-reproducing machines. No. 1,302,303; Apr. 29; v. 261; p. 901.
- Buck, Frank W., De Kalb, Ill. Automobile-signal. No. 1,313,463; Aug. 19; v. 265; p. 354.
- Buck, George D., assignor of one-third to H. P. Rodgers and one-third to S. D. Rodgers, St. Louis, Mo. Cutting device for copying-machines. No. 1,301,379; Apr. 22; v. 261; p. 696.
- Buck Glass Company, The. (See Bethel, Albert R., assignor.)
- Buck, H. L. (See Jordan, Bennett W., assignor.)
- Buck, Harold E., Swinton, England. Chassis construction on motor-vehicles. No. 1,323,739; Dec. 2; v. 269; p. 96.
- Buck, Herman J., Ellwood City, Pa. Drafting-machine. No. 1,297,788; Mar. 18; v. 260; p. 502.
- Buck, Herman J., assignor to Mathews Gravity Carrier Company, Ellwood City, Pa. Automatic ejector for straight-lift elevators. No. 1,302,631; May 6; v. 262; p. 28.
- Buck, Joseph C., Adrian, Mich. Vegetable and fruit grader. No. 1,317,479; Sept. 30; v. 266; p. 665.
- Buck, Milton E., Ematon, Kans. Wire-reel. No. 1,299,550; Apr. 8; v. 261; p. 240.
- Buck, Monroe, Glens Falls, N. Y. Tent-frame. No. 1,291,758; Jan. 21; v. 258; p. 470.
- Buck, Ollie H., Kokomo, Ind. Attachment for wrenches. No. 1,305,249; June 3; v. 263; p. 4.
- Buck, Samuel M., Cedar Lake, Mich. Sleigh-runner attachment for vehicles. No. 1,300,813; Apr. 15; v. 261; p. 542.
- Buck, Sidney L., Cortland, N. Y. Curtain-support for automobile-doors. No. 1,309,610; July 15; v. 264; p. 362.
- Buck's Stove & Range Company, The. (See Anderson, Edwin C., assignor.)
- Buckeye Dryer Company, The. (See Prindle, William E., assignor.)
- Buckeye Iron and Brass Works. (See Trace, Russell A., assignor.)
- Buckeye Steel Castings Company, The. (See Larsen, Jacob C., assignor.)
- Buckeye Traction Ditcher Company, The. (See George, Charles L., assignor.)
- Buckeye Traction Ditcher Company, The. (See Krupp, Leo A., assignor.)
- Buckham, George T. (See Dawson and Buckham.)
- Buckham, George T. (See Dawson, Buckham, and Ellis.)
- Buckham, George T., assignor to Vickers Limited, Westminster, London, England. Pedestal gun-mounting. No. 1,299,118; Apr. 1; v. 261; p. 115.
- Buckham, George T., assignor to Vickers Limited, Westminster, London, England. Mounting of automatic guns. No. 1,303,023; May 6; v. 262; p. 104.
- Buckham, George T., assignor to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,303,024; May 6; v. 262; p. 104.
- Buckham, George T., assignor to Vickers Limited, Westminster, London, England. Pedestal gun-mounting. No. 1,313,464; Aug. 19; v. 265; p. 354.
- Buckingham, Fremont H., assignor to Standard Computing Scale Company, Detroit, Mich. Tare-beam mounting. No. 1,295,967; Mar. 4; v. 260; p. 34.
- Buckingham, James F., Coventry, England. Incendiary projectile. No. 1,301,380; Apr. 22; v. 261; p. 696.
- Buckingham, James F., Coventry, England. Incendiary projectile. No. 1,301,382; Apr. 22; v. 261; p. 697.
- Buckingham, James F., county of Warwick, England. Incendiary projectile. No. 1,301,381; Apr. 22; v. 261; p. 697.
- Buckland, George G., San Francisco, Calif. Wheel. No. 1,315,178; Sept. 2; v. 266; p. 129.
- Buckles, William K., Rifle, Colo. Circuit-closer for electric signaling device. No. 1,318,478; Oct. 14; v. 267; p. 217.
- Buckley, Charles E., Champaign, Ill. Scoreboard. No. 1,324,382; Dec. 9; v. 269; p. 263.
- Buckley, Claude W., Memphis, Tenn. Mud-shoe for vehicle-tires. No. 1,313,465; Aug. 19; v. 265; p. 355.
- Buckley, Henry and J. E., Manchester, England. Wood vat or tank. No. 1,301,903; Apr. 29; v. 261; p. 826.
- Buckley, John H., Farnworth, near Bolton, England. Spindle and bobbin of ring-spinning and ring-doubling frames and the like. No. 1,326,179; Dec. 30; v. 269; p. 715.
- Buckley, Joseph E. (See Buckley, Henry and J. E.)
- Buckley, Nicholas F., Los Angeles, Calif. Hydrocarbon-burner. No. 1,323,825; Dec. 2; v. 269; p. 113.
- Buckley, Oliver E., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Directive sending system. No. 1,301,644; Apr. 22; v. 261; p. 744.
- Buckley, Oliver E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for exhausting to low pressures. No. 1,307,999; June 24; v. 263; p. 611.
- Buckley, Sydney, Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Crane. No. 1,296,755; Mar. 11; v. 260; p. 248.
- Buckley, Sydney, Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Lifting-beam for cranes. No. 1,296,756; Mar. 11; v. 260; p. 248.
- Buckley, Sydney, Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Bridge for traveling cranes. No. 1,296,757; Mar. 11; v. 260; p. 249.
- Buckley, Sydney, Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Bridge for traveling cranes. No. 1,296,758; Mar. 11; v. 260; p. 249.
- Buckley, Sydney, Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Bridge for traveling cranes. No. 1,296,759; Mar. 11; v. 260; p. 249.
- Buckley, William, Chicago, Ill. Sludge-press plate. No. 1,316,418; Sept. 16; v. 266; p. 381.
- Buckley, William, Chicago, Ill. Sludge-press. No. 1,316,419; Sept. 16; v. 266; p. 381.



- Bucklin, Harrison, Rochester, N. Y. Wagon. No. 1,297,438; Mar. 18; v. 260; p. 427.
- Bucklin, Orson, Marietta, Minn. Manure-spreader. No. 1,324,540; Dec. 9; v. 269; p. 294.
- Buckminster, Frank S., Hartford, Conn. Measuring instrument. No. 1,323,740; Dec. 2; v. 269; p. 96.
- Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Gas-cutting apparatus. No. 1,318,725; Oct. 14; v. 267; p. 264.
- Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Torch cutting-machine. No. 1,324,005; Dec. 2; v. 269; p. 147.
- Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Gas cutting-machine. No. 1,324,006; Dec. 2; v. 269; p. 147.
- Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Gas cutting-machine. No. 1,324,007; Dec. 2; v. 269; p. 148.
- Buckner, Levi G., and S. J. Sibley, Memphis, Tenn. Automatic signal apparatus to indicate failure of lubricating systems. No. 1,312,097; Aug. 5; v. 265; p. 46.
- Buckner, Louis H., Indianapolis, Ind. Connecting means for hubs and axles. No. 1,306,519; June 10; v. 263; p. 274.
- Buckwalter, John S., Lancaster, Pa. Milking-machine. No. 1,309,457; July 8; v. 264; p. 295.
- Buckwalter, Leon G. (See Hutchinson, Morton C., assignor.)
- Buckwalter, Martin C., and L. Garman, New Holland, Pa. Shutter-hinge. No. 1,294,044; Feb. 11; v. 259; p. 280.
- Buckwalter, Tracy V., Canton, Ohio. Building. No. 1,303,253; May 13; v. 262; p. 176.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller-bearing cage. No. 1,295,112; Feb. 25; v. 259; p. 587.
- Bucky, Gustav, Berlin, Germany, assignor to Siemens & Halske, A. G., Siemensstadt, near Berlin, Germany. Apparatus for therapeutically applying diathermic currents. No. 1,293,689; Feb. 11; v. 259; p. 196.
- Bucyrus Company. (See Bager, Svante R. W. M., assignor.)
- Bucyrus Company. (See Ferris, Walter, assignor.)
- Bucyrus Company. (See Oglesby, Charles G., assignor.)
- Buczynski, Kazimier, and B. Szoka, Grand Rapids, Mich. Combination-lock. No. 1,320,444; Nov. 4; v. 268; p. 16.
- Budaji, Frank S., New York, N. Y. Latch for doors. No. 1,294,612; Feb. 18; v. 259; p. 448.
- Budd, Clifford M. (See Dingwall and Budd.)
- Budd, Edward G., assignor to Budd Wheel Corporation, Philadelphia, Pa. Adjusting wire spokes of wire-spoked wheels. No. 1,298,657; Apr. 1; v. 261; p. 8.
- Budd, Edward G., assignor to Budd Wheel Corporation, Philadelphia, Pa. Detachable wire-spoked wheel. No. 1,299,400; Apr. 1; v. 261; p. 178.
- Budd, Thomas D., assignor of one-half to Link-Belt Company, Chicago, Ill., and one-half to James Stewart & Company, Inc., New York, N. Y. Unloading grain-cars. No. 1,320,377; Nov. 4; v. 268; p. 4.
- Budd Wheel Corporation. (See Budd, Edward G., assignor.)
- Budd Wheel Corporation. (See Ibach, Emil, assignor.)
- Budd Wheel Corporation. (See Ledwinka, Joseph, assignor.)
- Budd Wheel Corporation. (See Schenck, Charles, assignor.)
- Budde, Charles H. (See Budde, George W. and C. H.)
- Budde, George W. and C. H., St. Louis, Mo. Aquatic toy. No. 1,318,049; Oct. 7; v. 267; p. 74.
- Budlong, Frank M., assignor of forty-five one-hundredths to J. M. Curragh, San Jose, Calif. Wrench. No. 1,316,875; Sept. 23; v. 266; p. 514.
- Budzinski, Steve. (See Kopacki, Albert G., assignor.)
- Buechele, Eli M., Blackhawk county, Iowa. Ventilating means for corn-cribs. No. 1,306,401; June 10; v. 263; p. 252.
- Buechler, John R., Keokuk, Iowa, assignor to A. G. Wetmore, Plymouth, Ind. Crate. No. 1,307,434; June 24; v. 263; p. 507.
- Buechler, William J., Crawfordsville, Ind. Automatic latch-releasing mechanism. No. 1,323,741; Dec. 2; v. 269; p. 97.
- Buehler, Louis G. E., Chicago, Ill. Speed-reducing gear. No. 1,320,530; Nov. 4; v. 268; p. 32.
- Buehner, William, Detroit, Mich. Outboard-motor. No. 1,317,480; Sept. 30; v. 266; p. 665.
- Bueldt, Otto C., St. Louis, Mo. Bread-labeling device. No. 1,306,745; June 17; v. 263; p. 348.
- Buell, Edwin C., and H. L. Steenrod, Detroit, Mich. Power-hand saw. No. 1,324,032; Dec. 9; v. 269; p. 196.
- Buell, Poydlee C., St. Augustine, Fla. Self-lubricating device for journal-boxes. No. 1,308,887; July 8; v. 264; p. 189.
- Buell, Herbert J., et al. (See Von Brethorst and Priestley, assignors.)
- Buell, Joseph W., Washington, D. C., assignor to Buell Signal and Train Control Company, Incorporated. Combined automatic train signaling and control system. (Reissue.) No. 14,676; June 24; v. 263; p. 616.
- Buell Signal and Train Control Company. (See Buell, Joseph W., assignor.) (Reissue.)
- Buell, William H., New Haven, Conn. Priming charge. No. 1,312,156; Aug. 5; v. 265; p. 57.
- Buell, William H., New Haven, Conn., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Priming charge. No. 1,308,393; July 1; v. 264; p. 71.
- Buell, William H., New Haven, Conn., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Charge for primers. No. 1,308,394; July 1; v. 264; p. 71.
- Buell, William H., New Haven, Conn., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Charge for primers. No. 1,311,872; Aug. 5; v. 265; p. 4.
- Buell, Young K., New York, N. Y. Reinforce for shirts. No. 1,316,219; Sept. 16; v. 266; p. 343.
- Buellesbach, Casper, New York, N. Y. Convertible bed. No. 1,318,434; Oct. 14; v. 267; p. 209.
- Buente, Charles F., Avalon, Pa. Collapsible core for molds. No. 1,312,157; Aug. 5; v. 265; p. 57.
- Buerger, Charles B., assignor to The Atlantic Refining Company, Philadelphia, Pa. Operating stills and removing coke therefrom. No. 1,302,761; May 6; v. 262; p. 53.
- Bueschel, Andrew E. (See Pente, William, assignor.)
- Bueschel, Andrew E., assignor of one-half to W. Pente, Chicago, Ill. Folding paper box. No. 1,296,760; Mar. 11; v. 260; p. 249.
- Buff, Frank L., Wichita, Kans., assignor to The Universal Fluid Vending Machine Company, Inc. Automatic fluid-vending machine. No. 1,319,691; Oct. 28; v. 267; p. 497.
- Buff, Louis F. (See Henrici, William A. E., assignor.)
- Buffalo Bolt Company. (See Peirce, William B., assignor.)
- Buffalo Co-operative Stove Company. (See Jones, Frederick R., assignor.)
- Buffalo Forge Company. (See Carrier, Willis H., assignor.)
- Buffalo Foundry & Machine Company. (See Sleeper, Oliver S., assignor.)
- Buffalo Metal Goods Company. (See Emerson, William F., assignor.)
- Buffalo Pressed Steel Co. (See MacKenzie, Roy J., assignor.)
- Buffalo Scale Company. (See Boyd, William W., assignor.)
- Bugatti, Ettore, Paris, France. Internal-combustion engine. No. 1,316,420; Sept. 16; v. 266; p. 381.
- Bugbee, Lucian W. (See Styll and Bugbee.)
- Bugbee, Lucian W., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Finishing the surfaces of lenses or the like. No. 1,317,481; Sept. 30; v. 266; p. 665.
- Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,324,225; Dec. 9; v. 269; p. 233.
- Bugge, Bergithe M., assignor to C. H. Quigley, Spokane, Wash. Arm-sling. No. 1,304,153; May 20; v. 262; p. 377.
- Bugh, Wallace W., North Tonawanda, N. Y. Spark-plug. No. 1,315,945; Sept. 16; v. 266; p. 292.
- Bugher, Clarence E., Brookston, Ind., assignor, by mesne assignments, to Auto Speed Gear Manufacturing Co. Differential gearing. No. 1,297,439; Mar. 18; v. 260; p. 427.
- Buhl, Carl H., Cleveland, Ohio. Electric bell. No. 1,303,459; May 13; v. 262; p. 212.
- Buhl, Carl H., Cleveland, Ohio. Electric railway-signal crossing system. No. 1,322,177; Nov. 18; v. 268; p. 457.
- Buhl, George A., assignor to The G. A. Buhl Company, Chicago, Ill. Obtaining solid substances from solutions carrying the same. No. 1,322,875; Nov. 25; v. 268; p. 639.
- Buhler, Henry W., Boston, Mass. Coke-oven. No. 1,319,839; Oct. 28; v. 267; p. 525.
- Buhler, Henry W., Boston, Mass. Coke-oven. No. 1,319,840; Oct. 28; v. 267; p. 525.
- Buhler, Henry W., Boston, Mass. Coke-oven. No. 1,319,841; Oct. 28; v. 267; p. 525.
- Buhler, Henry W., Boston, Mass. Coke-oven. No. 1,319,842; Oct. 28; v. 267; p. 526.
- Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-yoke. No. 1,306,402; June 10; v. 263; p. 252.
- Buje, Sula, Commerce, Tex. Churn-truck. No. 1,321,713; Nov. 11; v. 268; p. 320.
- Building Equipments Manufacturing Company. (See Meyers, George W., assignor.)
- Bujnowski, Wlodzimierz, Peru, Ill. Comb and brush. No. 1,313,063; Aug. 12; v. 265; p. 262.
- Buker, Joseph E., Chicago, Ill. Wrench. No. 1,314,044; Aug. 26; v. 265; p. 498.
- Bukowski, Bogumil, assignor of one-half to J. Stetz, Wilkes-Barre, Pa. Pen and pencil box. No. 1,312,156; Feb. 4; v. 259; p. 82.
- Bulard, Edwin E., Springfield, Ill. Resilient tire. No. 1,295,266; Feb. 25; v. 259; p. 622.
- Bulard, Harry, Ossian, Iowa. Water-heater. No. 1,295,687; Feb. 25; v. 259; p. 719.
- Bulat, Nicolai, Lawrence, Mass. Carrier. No. 1,296,619; Mar. 11; v. 260; p. 216.
- Bulfinch, Francis V. (See Bulfinch, George G., Jr., and F. V.)



## Alphabetical list of patentees—Continued.

- Bulfinch, George G., Jr., Brookline, and F. V. Bulfinch, Dover, Mass. Bowling-game apparatus. No. 1,321,593; Nov. 11; v. 268; p. 297.
- Bulger, James J. (See Holtzman, George H., assignor.)
- Bull, Adrian P., Ravenna, Ohio. Cam-clamp. No. 1,297,539; Mar. 18; v. 260; p. 448.
- Bull, Archer A., Daboga, Pa. Bomb. No. 1,301,098; Apr. 22; v. 261; p. 639.
- Bull, Arthur J., Newcastle, New South Wales, Australia. Imitation-graining tool. No. 1,298,882; Apr. 1; v. 261; p. 61.
- Bull, John, Westminster, London, assignor of one-half to R. H. Annison, London, England. Pile-extracting, pile-driving, and like machine. No. 1,292,429; Jan. 28; v. 258; p. 655.
- Bullard, Ellerslie W. (See McCaughrin, Silas J., assignor.)
- Bullard, Herbert A., San Francisco, Calif., assignor to Intercontinental Company. Centrifugal gun. No. 1,311,492; July 29; v. 264; p. 773.
- Bullard, Lewis H., Kalamazoo, Mich. Punching-machine. No. 1,305,766; June 3; v. 263; p. 101.
- Bullard, Maurice L. (See Goodale and Bullard.)
- Bullard, Otto B., Spalding, Nebr. Stalk-puller. No. 1,297,319; Mar. 18; v. 260; p. 403.
- Bullard, Thomas P., Roseboro, N. C. Green-pea-hulling machine. No. 1,302,005; Apr. 29; v. 261; p. 846.
- Bulldog Pump Co. (See Meyer, Ralph J., assignor.)
- Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Double-wall pipe. No. 1,300,115; Apr. 8; v. 261; p. 367.
- Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Double-wall pipe. No. 1,308,981; July 8; v. 264; p. 207.
- Buller Coupler Company. (See Buller, Jacob W., assignor.)
- Buller, Jacob W., assignor to Buller Coupler Company, Inc., Hillsboro, Kans. Lugging-stretcher. No. 1,298,452; Mar. 25; v. 260; p. 668.
- Bulley, George W., St. Joseph, Mich. Rubber-working machine. No. 1,290,505; Jan. 7; v. 258; p. 119.
- Bulley, George W., Chicago, Ill. Producing bias fabric tape or strip. No. 1,323,212; Nov. 25; v. 268; p. 704.
- Bulley, George W., Chicago, Ill. Rubber-working machine. No. 1,323,213; Nov. 25; v. 268; p. 704.
- Bulley, Louis T., West Haven, Conn., assignor, by mesne assignments, to Carr Fastener Company, Cambridge, Mass. Separable fastener. (Reissue.) No. 14,595; Feb. 25; v. 259; p. 753.
- Bullinger, Joseph, Kansas, Ohio. Train-pipe coupling. No. 1,320,987; Nov. 4; v. 268; p. 119.
- Bullington, Frank A. (See Combs and Bullington.)
- Bullington, Frank A., et al. (See Lawrence, Willse, assignor.)
- Bullitt, Louis R., San Jose, Calif. Coat and trousers hanger. No. 1,301,645; Apr. 22; v. 261; p. 745.
- Bullivant, Cisco, assignor of one-half to W. W. Zent, Spokane, Wash. Rim contractor and expander. No. 1,306,997; June 17; v. 263; p. 394.
- Bullock, William G. G., Washington, D. C. Adjustable electrical connection. No. 1,322,226; Nov. 18; v. 263; p. 466.
- Bullock, Annette R., Kansas City, Mo. Tray attachment. No. 1,290,072; Jan. 7; v. 258; p. 14.
- Bullock, Arthur R., Cleveland, Ohio. Electrolytic treatment of carbon. No. 1,314,632; Sept. 2; v. 266; p. 30.
- Bullock, Charles F., Schenectady, N. Y., assignor to General Electric Company. Indicating instrument. No. 1,304,259; May 20; v. 262; p. 397.
- Bullock, Raymond G., and H. E. Leave, assignors to The Art Metal Construction Co., Inc., Jamestown, N. Y. Metallic structure. No. 1,303,850; May 20; v. 262; p. 322.
- Bullock, Raymond G., and G. Anderson, assignors to The Art Metal Construction Company, Jamestown, N. Y. Base for filing-cabinets, furniture, &c. No. 1,310,322; July 15; v. 264; p. 491.
- Bullock, Samuel M., Chicago, and H. S. Lloyd, Oak Park, Ill. Forming abrasive disks. No. 1,311,550; July 29; v. 264; p. 784.
- Bullôt, Louis F., Sydney, New South Wales, Australia. Apparatus for preservation of meat and other alimentary substances. No. 1,320,988; Nov. 4; v. 268; p. 119.
- Bullwinkel, John H. F., Weehawken, N. J. Portable window-seat. No. 1,297,540; Mar. 18; v. 260; p. 448.
- Bulman, Elvah O., Grand Rapids, Mich. Latch. No. 1,324,953; Dec. 16; v. 269; p. 433.
- Bulman, Elvah O., Grand Rapids, Mich. Paper-roll holder and cutter. No. 1,326,019; Dec. 23; v. 269; p. 648.
- Bulman, William, Kirkdale, F. W. Smith, Liverpool, and W. Jones, Southampton, England. Ship's-boat-launching tackle or gear. No. 1,313,789; Aug. 19; v. 265; p. 416.
- Bultman, Cyrus C., Cleveland, Ohio, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Surfacing-machine for bowling-alleys. No. 1,319,041; Oct. 21; v. 267; p. 350.
- Bumgardner, George L., assignor of one-half to H. A. Partridge, Gridley, Kans. Vehicle-coupling. No. 1,307,344; June 24; v. 263; p. 491.
- Bumke, Herman R. (See Thompson and Bumke.)
- Bump, George P., La Crosse, Wis. Air-compressor. No. 1,294,869; Feb. 18; v. 259; p. 508.
- Bump, George P., La Crosse, Wis. Compressed-air starting apparatus. No. 1,294,870; Feb. 18; v. 259; p. 508.
- Bunce, Earl H. (See Singmaster, Breyer, and Bunce.)
- Bundara, Leon D. (See West, Leo S., assignor.)
- Bundy, Cyrus L., deceased, East Orange, N. J., assignor of one-half to W. Bohleber, New York, N. Y.; W. Bohleber, executor. Spark-plug. No. 1,300,569; Apr. 15; v. 261; p. 491.
- Bundy, Elmer J., assignor to The McGraw Tire & Rubber Company, East Palestine, Ohio. Collapsible core. No. 1,307,435; June 24; v. 263; p. 507.
- Bungay, George W., Brooklyn, N. Y., assignor to Acme Die Casting Corporation. Control-box. No. 1,309,611; July 15; v. 264; p. 362.
- Bunker, Arthur C., Schenectady, N. Y. Locomotive-truck. No. 1,307,616; June 24; v. 263; p. 540.
- Bunker, Charles A., Kansas City, Mo. Laundry-registering apparatus. No. 1,311,315; July 29; v. 264; p. 739.
- Bunker, Charles A., assignor to C. C. Allen, Kansas City, Mo. Milling-machine. No. 1,292,245; Jan. 21; v. 258; p. 591.
- Bunker, Raymond U., Yonkers, N. Y. Recovering wax from sugar-cane. No. 1,309,999; July 15; v. 264; p. 433.
- Bunnell, Morton G., assignor of one-half to J. A. Harrell, Decatur, Ill. Measuring and dispensing machine. No. 1,291,759; Jan. 21; v. 258; p. 470.
- Bunnell, William O., and Q. A. Gates, Wilkes-Barre, Pa. Street-indicator. No. 1,310,279; July 15; v. 264; p. 484.
- Bunting Brass & Bronze Company, The. (See Bunting, William H., assignor.)
- Bunting Brass & Bronze Company, The. (See Donaldson, Augustus F., assignor.)
- Bunting, John T., Chicago, Ill. Heater for hot water or steam. No. 1,305,686; June 3; v. 263; p. 86.
- Bunting, Norman E., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Bag-holding means. No. 1,294,764; Feb. 18; v. 259; p. 484.
- Bunting, William H., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Means for forming bearing-surfaces. No. 1,318,537; Oct. 14; v. 267; p. 228.
- Bunting, William H., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Broaching bushings. No. 1,318,538; Oct. 14; v. 267; p. 229.
- Buoy, Pearle A. (See Hamilton and Buoy.)
- Buras, Norbert, Boothville, La. Hammer. No. 1,314,465; Aug. 26; v. 265; p. 579.
- Burbank, Louis S., Ludlow, Mass., assignor to Ludlow Manufacturing Associates. Automatic filing-changing loom. No. 1,294,871; Feb. 18; v. 259; p. 509.
- Burbank, Louis S., Ludlow, Mass., assignor to Ludlow Manufacturing Associates. Automatic filing-changing loom. No. 1,294,872; Feb. 18; v. 259; p. 509.
- Burch, Charles E. S., San Jose, Calif., assignor of one-half to H. S. De Puy, San Diego, Calif. Traction device. No. 1,300,814; Apr. 15; v. 261; p. 542.
- Burch, Edwin W., et al. (See Nicholson, Alonzo L., assignor.)
- Burch, Le Roy, assignor to M. V. Burch, Cedar Rapids, Iowa. Weeding-tool. No. 1,294,231; Feb. 11; v. 259; p. 325.
- Burch, Mary V. (See Burch, Le Roy, assignor.)
- Burch Plow Works Company, The. (See Babst, Jacob, assignor.)
- Burch, Willie, Lowell, Mich. Railway-tie. No. 1,311,946; Aug. 5; v. 265; p. 18.
- Burch, Zeno, El Centro, Calif. Accordion reed-box. No. 1,311,752; July 29; v. 264; p. 821.
- Burchett, John H. P., Kew Gardens, England. Internal-combustion engine. No. 1,313,578; Aug. 19; v. 265; p. 376.
- Burchiel, Ollie M., Mesa, Ariz. Time-controlled lamp-lighting device. No. 1,317,069; Sept. 23; v. 266; p. 551.
- Burd, Francis J. (See Parkhurst and Burd.)
- Burd Ring Sales Company. (See Cobe, Harry H., assignor.)
- Burdelow, Alfred. (See Bolt, Rufus R., assignor.)
- Burden, Henry. (See Taylor, Miles, and Burden.)
- Burdett, Gilbert U., U. S. Army. Ruptured-shell extractor. No. 1,326,569; Dec. 30; v. 269; p. 789.
- Burdette, Cronin M., assignor to The Sharples Separator Company, West Chester, Pa. Cone-puller. No. 1,320,378; Nov. 4; v. 268; p. 4.
- Burdick Cabinet Co. (See Anderson, Fritz A., assignor.)
- Burdick, Charles L., Wood Green, London, England. Painting-machine. No. 1,313,670; Aug. 19; v. 265; p. 393.
- Burdick, Charles L., London, assignor of one-half to J. B. Parnham, Chingford, Essex, England. Coin-actuated machine. No. 1,323,214; Nov. 25; v. 268; p. 705.
- Burdick, Charles L., Wood Green, and W. B. Makins, Hampstead, London, England. Machine for coating surfaces with liquid. No. 1,294,765; Feb. 18; v. 259; p. 484.



- Burdick, Ephraim, Cleveland, Ohio. Vegetable-topping machine. No. 1,294,766; Feb. 18; v. 259; p. 484.
- Burdin, Adelbert E., Seattle, Wash. Ventilator. No. 1,293,171; Mar. 25; v. 260; p. 608.
- Burdine, James W. P., Lake Arthur, La. Vending-machine. No. 1,814,852; Sept. 2; v. 266; p. 70.
- Burdon, Matthew M. (See Burdon, William M. and M. M.)
- Burdon, William M. and M. M., assignors to Burdon's Limited, Bellshill, Scotland. Liquid-fuel furnace. No. 1,310,152; July 15; v. 264; p. 461.
- Burdon's Limited. (See Burdon, W. M. and M. M., assignors.)
- Burel, Otis E., Carthage, Mo. Music-leaf turner. No. 1,323,958; Dec. 2; v. 269; p. 138.
- Burfeind, Raymond H., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Non-grounded or metallic line-circuit system. No. 1,299,119; Apr. 1; v. 261; p. 115.
- Burg, Alfred D. (See Miller and Burg.)
- Burg, Eloy A., La Harpe, Ill. Device for treating binder-twine. No. 1,321,977; Nov. 18; v. 268; p. 419.
- Burg, L. J. (See Miller and Burg, assignors.)
- Burgener, Frederick, Olney, Ill. Adjustable frame for cleaning carpets and rugs. No. 1,315,656; Sept. 9; v. 266; p. 224.
- Burger, Donald E., Mount Vernon, N. Y. Indicator. No. 1,295,113; Feb. 25; v. 259; p. 587.
- Burgert, Joseph, Lakewood, assignor of one-third to M. P. Goodman and one-third to G. Janowitz, Cleveland, Ohio. Spark-plug. No. 1,324,875; Dec. 16; v. 269; p. 418.
- Burgess, Ashton, Regina, Saskatchewan, Canada. Holder for sanitary or single-service cups or other receptacles. No. 1,299,120; Apr. 1; v. 261; p. 115.
- Burgess, Avery B., et al. (See McLaughlin, William D., assignor.)
- Burgess Battery Company. (See Burgess, Charles F., assignor.)
- Burgess Battery Company. (See Hambuechen, Carl, assignor.)
- Burgess Battery Company. (See Schorger, Arlie W., assignor.)
- Burgess, Charles F., Madison, Wis., assignor to Burgess Battery Company. Dry battery. No. 1,297,653; Mar. 18; v. 260; p. 471.
- Burgess, Charles F., Madison, Wis., assignor to Burgess Battery Company. Battery hand-lamp. No. 1,297,654; Mar. 18; v. 260; p. 472.
- Burgess, Charles F., Madison, Wis., assignor to Burgess Battery Company. Hand-lamp. No. 1,297,655; Mar. 18; v. 260; p. 472.
- Burgess, Charles F., Madison, Wis., assignor to Burgess Battery Company. Battery hand-lamp. No. 1,297,656; Mar. 18; v. 260; p. 472.
- Burgess, Charles F., Madison, Wis., assignor to Burgess Battery Company. Battery hand-lamp. No. 1,297,657; Mar. 18; v. 260; p. 472.
- Burgess, Charles F., assignor, by mesne assignments, to Burgess Battery Company, Madison, Wis. Battery hand-lamp. No. 1,299,908; Apr. 8; v. 261; p. 322.
- Burgess, Charles F., assignor, by mesne assignments, to Burgess Battery Company, Madison, Wis. Battery hand-lamp. No. 1,299,909; Apr. 8; v. 261; p. 322.
- Burgess, Charles F., assignor, by mesne assignments, to Burgess Battery Company, Madison, Wis. Battery hand-lamp. No. 1,299,910; Apr. 8; v. 261; p. 322.
- Burgess, Charles F., assignor, by mesne assignments, to Burgess Battery Company, Madison, Wis. Battery hand-lamp. No. 1,299,911; Apr. 8; v. 261; p. 322.
- Burgess, Charles F., assignor, by mesne assignments, to Burgess Battery Company, Madison, Wis. Dry cell. No. 1,302,304; Apr. 29; v. 261; p. 902.
- Burgess, Charles F., assignor to Burgess Battery Company, Madison, Wis. Manufacture of dry cells. No. 1,305,250; June 3; v. 263; p. 4.
- Burgess, Charles F., assignor to Burgess Battery Company, Madison, Wis. Manufacture of dry cells. No. 1,305,251; June 3; v. 263; p. 4.
- Burgess, Charles F., assignor to Burgess Battery Company, Madison, Wis. Manufacture of dry cells. No. 1,305,252; June 3; v. 263; p. 4.
- Burgess, Charles O., Monmouth, Ill. Furniture. No. 1,293,025; Feb. 4; v. 259; p. 13.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tractor-operated hay-treating device. No. 1,291,392; Jan. 14; v. 258; p. 353.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Mowing-machine. No. 1,291,393; Jan. 14; v. 258; p. 353.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Power-transmission gearing. No. 1,301,811; Apr. 29; v. 261; p. 809.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Cutting apparatus for mowing-machines. No. 1,308,162; July 1; v. 264; p. 29.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Corn-planter. No. 1,308,163; July 1; v. 264; p. 29.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Grain-drill. No. 1,308,888; July 8; v. 264; p. 190.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Traction-engine. No. 1,310,604; July 22; v. 264; p. 575.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Grain-harvesting machinery. No. 1,312,304; Aug. 5; v. 265; p. 84.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Corn-harvester. No. 1,312,432; Aug. 5; v. 265; p. 109.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Shock-hoist. No. 1,314,569; Sept. 2; v. 266; p. 18.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Manure-loader. No. 1,323,674; Dec. 2; v. 269; p. 84.
- Burgess, Frederick G., Brooklyn, N. Y. Box-closure. No. 1,326,349; Dec. 16; v. 269; p. 507.
- Burgess, Hubert A., Seattle, Wash. Speed-controlled rheostat. No. 1,305,961; June 3; v. 263; p. 139.
- Burgess, John A., Toronto, Ontario, Canada, assignor of one-half to G. B. Hutchings, Richmond, Va. Sound-detector. No. 1,301,034; Apr. 15; v. 261; p. 589.
- Burgess, John A., Toronto, Ontario, Canada, and G. B. Hutchings, Richmond, Va. Sound-interference device. No. 1,301,035; Apr. 15; v. 261; p. 590.
- Burgess, John W. (See Burgess, John W. and G. F.)
- Burgess, John W., Palermo, Cal. Lifting-jack. No. 1,293,026; Feb. 4; v. 259; p. 13.
- Burgess, John W. and G. F., Kansas City, Mo. Tire. No. 1,313,254; Aug. 19; v. 265; p. 316.
- Burgess, Louis, New York, N. Y., assignor to Standard Oil Company. Producing aluminum chlorid. No. 1,321,281; Nov. 11; v. 268; p. 238.
- Burgess, Mortimer B., Adelphi, Jamaica, British West Indies. Keyless lock. No. 1,302,896; May 6; v. 262; p. 80.
- Burgess, William S., Marblehead, Mass., assignor to Curtiss Aeroplane and Motor Corporation. Hydroaeromachine. No. 1,294,389; Feb. 18; v. 259; p. 396.
- Burgess, William S., Marblehead, Mass., assignor to Curtiss Aeroplane and Motor Corporation. Reconnoitering-hydroaeroplane. No. 1,310,737; July 22; v. 264; p. 599.
- Burgess, William S., Marblehead, Mass., assignor to Curtiss Aeroplane and Motor Corporation. Pusher-triplane. No. 1,323,959; Dec. 2; v. 269; p. 138.
- Burkin, William D., Joplin, Mo. Forming concrete walls. No. 1,305,687; June 3; v. 263; p. 87.
- Burhans, Lee W., et al. (See Hickey, John F., assignor.)
- Burhen, Reinhart J., Kirkwood, assignor to W. Scott, St. Louis, Mo. Corner-fastener for screen-frames. No. 1,301,812; Apr. 29; v. 261; p. 809.
- Burk, Steven, New York, N. Y. Cuff. No. 1,303,254; May 13; v. 262; p. 176.
- Burk, William H., assignor to American Steel Window Company, Chicago, Ill. Fastening device. No. 1,301,813; Apr. 29; v. 261; p. 809.
- Burk, William H., assignor to American Steel Window Company, Chicago, Ill. Latch. No. 1,301,814; Apr. 29; v. 261; p. 809.
- Burke, Alfred, Brooklyn, N. Y. Spectacle-temple connection. No. 1,294,390; Feb. 18; v. 259; p. 396.
- Burke, Alfred, Brooklyn, N. Y. Die. No. 1,294,391; Feb. 18; v. 259; p. 396.
- Burke, Alfred W., Wynnewood, Pa. Excess-demand meter. No. 1,308,656; July 1; v. 264; p. 118.
- Burke, Benjamin D., Akron, Ala. Salt and pepper shaker top. No. 1,325,687; Dec. 23; v. 269; p. 587.
- Burke, Charles R., Tulsa, Okla., H. T. Boyd, Homer, P. M. Biddison, Columbus, Ohio, and J. S. Zink, Tulsa, Okla. Producing magnesium nitrid. No. 1,319,843; Oct. 28; v. 267; p. 526.
- Burke, Clayton E., and G. R. Beckwith, assignors to B. B. Specialty Co., Minneapolis, Minn. Mop-holder. No. 1,311,316; July 29; v. 264; p. 739.
- Burke Electric Company. (See Burke, James, assignor.)
- Burke, Gordon H., Plymouth, N. H. Spring-heel for horse and mule shoes. No. 1,317,070; Sept. 23; v. 266; p. 551.
- Burke & James. (See Cernohous, James, assignor.)
- Burke & James. (See Tyrrell, Frederick S., assignor.)
- Burke, James, Erie, Pa., assignor to Burke Electric Company. Alternating-current motor. No. 1,296,620; Mar. 11; v. 260; p. 216.
- Burke, James F., Kansas City, Mo. Tool-handle-attaching means. No. 1,305,688; June 3; v. 263; p. 87.
- Burke, James P., Struthers, Ohio. Safety push-pin. No. 1,303,025; May 6; v. 262; p. 104.
- Burke, Osbert S., Chicago, Ill., assignor to Federal Sign System, New York, N. Y. Siren. No. 1,323,826; Dec. 2; v. 269; p. 113.
- Burke, Thomas J., Brockton, Mass. Wooden-bottomed shoe. No. 1,296,044; Mar. 4; v. 260; p. 52.
- Burke, William J., Youngstown, Ohio. Safety device for railway-switches. No. 1,324,725; Dec. 9; v. 269; p. 329.



## Alphabetical list of patentees—Continued.

- Burkel, Mathew J., and L. P. Fosnot, Aurora, assignors to C. E. Melhope, trustee, Winnetka, Ill. Engine or motor. No. 1,326,476; Dec. 30; v. 269; p. 770.
- Burkett, Orrin V. (See Hershey, Grant W., assignor.)
- Burkey, Edward B., Hamburg, Pa. Draw-string garment. No. 1,324,876; Dec. 16; v. 269; p. 419.
- Burkey, Henry T. (See Laxman and Burkey.)
- Burkey, Henry T., Tulsa, Okla. Electric fish-stop. No. 1,292,246; Jan. 21; v. 258; p. 592.
- Burkhardt, J., et al. (See Jones, Ora O., assignor.)
- Burkhardt, Adolph O., Sugar Creek, Pa. Bread-raising cabinet. No. 1,325,506; Dec. 23; v. 269; p. 553.
- Burkhardt, Curt R., Teaneck, assignor of one-half to J. A. Scharwath, Elizabeth, N. J. Mold for concrete shingles. No. 1,291,394; Jan. 14; v. 258; p. 354.
- Burkhardt, Curt R., Teaneck, assignor of one-half to J. A. Scharwath, Elizabeth, N. J. Press-mold. No. 1,291,395; Jan. 14; v. 258; p. 354.
- Burkhardt, Curt R., Teaneck, assignor of one-half to J. A. Scharwath, Elizabeth, N. J. Apparatus for making concrete slabs. No. 1,291,637; Jan. 14; v. 258; p. 410.
- Burkhardt, Henry W., Jr., Dayton, Ohio. Means for conveying meat to be stuffed from mixing to stuffing machines. No. 1,311,493; July 29; v. 264; p. 773.
- Burkhardt, John, New York, N. Y. Casting-machine. No. 1,308,926; July 8; v. 264; p. 197.
- Burkhardt Corporation. (See Henry, Ferdinand G., assignor.)
- Burkhart, Henry B., et al. (See Smith, John F., assignor.)
- Burkhart, Quincy E., et al. (See Barnack, Fred W., assignor.)
- Burkholder, Charles I. (See Hewlett and Burkholder.)
- Burkholder, Isaac R., Lancaster, Pa. Gate. No. 1,316,080; Sept. 16; v. 266; p. 317.
- Burleigh, Dean R., Farmington, N. H. Saw attachment. No. 1,294,767; Feb. 18; v. 259; p. 485.
- Burkley, Clem J., Columbus, Ohio, assignor to General Electric Company. Insulating material. No. 1,306,520; June 10; v. 263; p. 274.
- Burlew, George, Brooklyn, N. Y. Card game. No. 1,315,907; Sept. 9; v. 266; p. 271.
- Burlew, Gilderoy O., Newark, N. J. Dental abrasive or grinding disk. No. 1,314,125; Aug. 26; v. 265; p. 513.
- Burlin, Leslie H., Oak Park, Ill. Gun. No. 1,290,898; Jan. 14; v. 258; p. 238.
- Burlingame, Albert C., Minneapolis, Minn. Gripping-tongs. No. 1,321,594; Nov. 11; v. 268; p. 297.
- Burlingame, Stephen C., Sterling, Conn. Winding mechanism. No. 1,301,223; Apr. 22; v. 261; p. 665.
- Burlingham, William, assignor to Engineering Products Corporation, Newport News, Va. Pneumatic impact tool. No. 1,306,300; June 10; v. 263; p. 233.
- Burman, Walfred, Worcester, Mass. Spark-plug. No. 1,311,039; July 22; v. 264; p. 655.
- Burmeister, Ernest H., Evanston, Ill. Culinary device. No. 1,326,570; Dec. 30; v. 269; p. 789.
- Burmeister, Everette A., Detroit, Mich. Wringer. No. 1,323,348; Dec. 2; v. 269; p. 24.
- Burnell, Oscar B., Caribou, Minn. Hay-stacker. No. 1,309,016; July 8; v. 264; p. 214.
- Burner, Clarence A., Normal, Ill. Index and tabulator. No. 1,293,690; Feb. 11; v. 259; p. 196.
- Burnett, Charles E., North Rose, N. Y. Vehicle-body support. No. 1,319,042; Oct. 21; v. 267; p. 350.
- Burnett, Ira A., Chicago, Ill. Dental-amalgam mixer. No. 1,308,038; July 1; v. 264; p. 6.
- Burnett, Ira A., Chicago, Ill. Moistening attachment for dental-engine handpieces. No. 1,318,351; Oct. 14; v. 267; p. 192.
- Burnett, John P., Oak Park, assignor to Ad Photoscope Company, Inc., Chicago, Ill. Motion-picture-film magazine. No. 1,296,476; Mar. 4; v. 260; p. 147.
- Burnett-Larsh Manufacturing Company, The. (See Larsh, Everett P., assignor.)
- Burnett, Rex C., Raleigh, Ill. Attachment for internal combustion engines. No. 1,323,827; Dec. 2; v. 269; p. 114.
- Burnett, Richard W. (See Kellogg and Burnett.)
- Burnett, Richard W., Montreal, Quebec, Canada. Car-underframe. No. 1,300,340; Apr. 15; v. 261; p. 441.
- Burnett, Thomas H., Exchequer, Calif. Internal-combustion engine. No. 1,308,621; July 1; v. 264; p. 112.
- Burnette, Fred E., Northboro, Iowa. Crank-case-reinforcing means. No. 1,326,844; Dec. 30; v. 269; p. 840.
- Burney, Charles D., Kilmeston, Alresford, England. Towing-anchorage for towed bodies. No. 1,319,565; Oct. 21; v. 267; p. 450.
- Burney, Theodore, London, England. Submersible toy. No. 1,296,915; Mar. 11; v. 260; p. 285.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electric switch. No. 1,290,899; Jan. 14; v. 258; p. 238.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Circuit-breaker and switch. No. 1,293,691; Feb. 11; v. 259; p. 197.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Transformer. No. 1,293,692; Feb. 11; v. 259; p. 197.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electric switch. No. 1,307,848; June 24; v. 263; p. 582.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electric switch. No. 1,312,777; Aug. 12; v. 265; p. 206.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Fuse for electric switches. No. 1,312,792; Aug. 12; v. 265; p. 209.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Time element for circuit-controllers. No. 1,313,877; Aug. 26; v. 265; p. 466.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Double-throw electric switch. No. 1,318,131; Oct. 7; v. 267; p. 89.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electrical distribution system. No. 1,324,226; Dec. 9; v. 269; p. 233.
- Burnham, George B., Borosolva, Calif. Recovering potassium sodium sulfate from saline liquors. No. 1,317,954; Oct. 7; v. 267; p. 56.
- Burnham, George B., Borosolva, Calif. Obtaining potassium sodium sulfate from saline liquors. No. 1,321,282; Nov. 11; v. 268; p. 238.
- Burnham, Lewis H., assignor of one-half to G. E. Clark, Haverhill, Mass. Shoe-upper holder. No. 1,323,009; Nov. 25; v. 268; p. 665.
- Burnham, Locke H., Pittsfield, Mass., assignor to General Electric Company. Transformer. No. 1,304,451; May 20; v. 262; p. 435.
- Burnhart, George W., Denver, Colo. Ore-concentrator. No. 1,295,267; Feb. 25; v. 259; p. 622.
- Burnip, William. (See Segur and Burnip.)
- Burns, Frank, Westfield, N. Y. Catch. No. 1,300,570; Apr. 15; v. 261; p. 491.
- Burns, James W. (See Mitcham and Burns.)
- Burns, Jess L., Farnhamville, Iowa. Portable stalk-guard for binders. No. 1,291,760; Jan. 21; v. 258; p. 470.
- Burns, John W., assignor of one-third to R. A. Holt and one-third to J. N. Harasta, Los Angeles, Calif. Two-cycle reciprocating engine. No. 1,311,148; July 22; v. 264; p. 675.
- Burns, Joseph, Poacatello, Idaho. Sinking reinforced-concrete piles. No. 1,293,693; Feb. 11; v. 259; p. 197.
- Burns, Michael J., Newark, N. J. Gun. No. 1,321,883; Nov. 18; v. 268; p. 402.
- Burns, Robert L., Taft, Calif. Rotary coupling. No. 1,326,643; Dec. 30; v. 269; p. 802.
- Burns, William D., Amenia, N. Y. Roller-bearing. No. 1,303,767; May 13; v. 262; p. 269.
- Burns, William J., assignor to The Peerless Vulcanite Company, Bridgeport, Conn. Making plastic articles. No. 1,304,851; May 27; v. 262; p. 549.
- Burpee, Clarence B. (See Burpee and Burpee.)
- Burpee, Frank W., J. H., and C. B., assignors to Burpee & Letson, Limited, South Bellingham, Wash. Can-seaming machine. No. 1,293,694; Feb. 11; v. 259; p. 198.
- Burpee, John H. (See Burpee and Burpee.)
- Burpee & Letson. (See Burpee and Burpee, assignors.)
- Burr, Edmund G., Montreal, Quebec, Canada. Admixture of metals or substances for alloying. No. 1,315,208; Sept. 9; v. 266; p. 144.
- Burr, Harry M., assignor to The Omo Manufacturing Company, Middletown, Conn. Brassière and dress-shield. No. 1,295,427; Feb. 25; v. 259; p. 659.
- Burr, Thomas W., Stoneham, Mass. Lubricating-cup. No. 1,302,006; Apr. 29; v. 261; p. 846.
- Burr, Thomas W., Stoneham, Mass. Carbureter. No. 1,325,688; Dec. 23; v. 269; p. 587.
- Burr, Thomas W., Stoneham, Mass. Carbureter. No. 1,325,689; Dec. 23; v. 269; p. 587.
- Burrell, Benjamin S., Indiana Harbor, Ind. Liquid-fuel-gasifying apparatus. No. 1,305,689; June 3; v. 263; p. 87.
- Burrell, William C., Kankakee, Ill. Animal-feeding device. No. 1,301,383; Apr. 22; v. 261; p. 697.
- Burrell, William C., Kankakee, Ill. Animal-operated liquid-distributor. No. 1,301,904; Apr. 29; v. 261; p. 827.
- Burridge, Francis O., executor. (See Burridge, Lee S.)
- Burridge, Lee S., deceased; F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,297,085; Mar. 11; v. 260; p. 322.
- Burridge, Lee S., deceased; F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,309,316; July 8; v. 264; p. 270.
- Burridge, Lee S., deceased; F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,310,000; July 15; v. 264; p. 433.
- Burridge, Lee S., deceased; F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,317,482; Sept. 30; v. 266; p. 665.
- Burridge, Lee S., deceased; F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,322,530; Nov. 25; v. 268; p. 575.
- Burrill, Kenneth L., New Glasgow, Nova Scotia, Canada. Float-valve. No. 1,323,960; Dec. 2; v. 269; p. 139.
- Burris, James N., Davenport, Iowa. Non-skid attachment for vehicle-tires. No. 1,298,001; Mar. 25; v. 260; p. 573.



- Burritt, Clarence H., San Francisco, Calif. Combination welding and cutting torch. No. 1,316,681; Sept. 23; v. 266; p. 479.
- Burmann, Henry, *et al.* (See Ward, James N., assignor.)
- Burroughs Adding Machine Company. (See Finlay and Fanglebner, assignors.)
- Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)
- Burroughs Adding Machine Company. (See Peters, Herbert C., assignor.)
- Burroughs Adding Machine Company. (See Rinsch, Frank C., assignor.)
- Burroughs Adding Machine Company. (See Vincent, Jesse G., assignor.)
- Burroughs, Arthur S. (See Dutro and Burroughs.)
- Burroughs, Charles E., Cincinnati, Ohio. Flying-machine. No. 1,320,839; Nov. 4; v. 268; p. 90.
- Burroughs, Charles F., East Orange, N. J. Heating or cooling plate for molding-presses. No. 1,296,916; Mar. 11; v. 260; p. 285.
- Burroughs, Charles F., East Orange, N. J. Tilting head for molding-presses. No. 1,308,475; July 1; v. 264; p. 85.
- Burroughs, Elgie D. (See Burroughs, Ora E. and E. D.)
- Burroughs, Eric S., Liverpool, England. Rubber stamp. No. 1,325,391; Dec. 16; v. 269; p. 514.
- Burroughs, Ora E. and E. D., Argos, Ind. Combined gas-saver and primer for automobiles. No. 1,324,299; Dec. 9; v. 269; p. 247.
- Burroughs, Ryland J., Richmond, Va. Builder's square. No. 1,323,742; Dec. 2; v. 269; p. 97.
- Burrowes, Edward T., Portland, Me. Folding card-table. No. 1,304,540; May 27; v. 262; p. 491.
- Burrows, Aubrey A., assignor to Coleman Fare Box Company, Limited, Toronto, Ontario, Canada. Fare-box. No. 1,293,695; Feb. 11; v. 259; p. 198.
- Burrows, Charles W., assignor of one-fourth to R. J. Wig, Washington, D. C. Method of and apparatus for testing magnetizable objects by magnetic leakage. No. 1,322,405; Nov. 18; v. 268; p. 500.
- Burrows, Frank R. and J. G., Port Arthur, Ontario, Canada. Explosive compound. No. 1,301,646; Apr. 22; v. 261; p. 745.
- Burrows, John R., Wilmington, Del. Artificial flower. No. 1,307,617; June 24; v. 263; p. 540.
- Burrows, Joseph G. (See Burrows, Frank R. and J. G.)
- Burrows, Robert J., assignor, by mesne assignments, to Clark Equipment Company, Buchanan, Mich. Axle for motor-vehicles. No. 1,291,761; Jan. 21; v. 258; p. 471.
- Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Motor-truck axle. No. 1,309,239; July 8; v. 264; p. 255.
- Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Metal wheel. No. 1,312,890; Aug. 12; v. 265; p. 227.
- Burrows, Robert J., assignor to Clark Equipment Company, Buchanan, Mich. Bracket. No. 1,314,502; Sept. 2; v. 266; p. 5.
- Burrows, Robert P. (See Doane, Burrows, and Sinclair.)
- Burrows, William J., and H. B. Lawrence, Vernon, Ala. Photographic camera. No. 1,301,815; Apr. 29; v. 261; p. 809.
- Burruss, Albert E., Norfolk, Va. Attachment for phonograph sound-boxes. No. 1,325,274; Dec. 16; v. 269; p. 493.
- Bursell, Olof H., Örebro, Sweden. Ball-cage for ball-bearings. No. 1,305,875; June 3; v. 263; p. 122.
- Bursewiede, Herman, Kaukauna, Wis. Drill rod clamp. No. 1,295,428; Feb. 25; v. 259; p. 659.
- Burt-Gerrans, James T. (See Thorold, Ardagh and Burt-Gerrans.)
- Burt, John W., Cascilla, Miss. Plow-line holder. No. 1,297,086; Mar. 11; v. 260; p. 323.
- Burt, Peter, Bothwell, assignor of one-half to Argylls Limited, Alexandria, Scotland. Internal-combustion engine. No. 1,310,646; July 22; v. 264; p. 582.
- Burnett, Everett R., assignor of one-half to T. E. Berry, Los Angeles, Calif. Internal-combustion engine. No. 1,315,538; Sept. 9; v. 266; p. 204.
- Burnett, Everett R., assignor of one-half to T. E. Berry, Los Angeles, Calif. Air-cooling system for internal-combustion engines. No. 1,323,010; Nov. 25; v. 268; p. 665.
- Burton, Alexander M., Pittsburgh, Pa. Fender. No. 1,316,939; Sept. 23; v. 266; p. 526.
- Burton, Arthur L., Fairhaven, Mass. Bobbin-cleaning machine. No. 1,321,884; Nov. 18; v. 268; p. 402.
- Burton, Charles S., Oak Park, Ill. Fuel-feeding device for internal-combustion engines. No. 1,296,363; Mar. 4; v. 260; p. 124.
- Burton, Charles S., Oak Park, Ill. Fuel-feeding device for internal-combustion engines. No. 1,296,364; Mar. 4; v. 260; p. 124.
- Burton, Charles S., Oak Park, Ill. Fuel-feeding device for internal-combustion engines. No. 1,296,365; Mar. 4; v. 260; p. 124.
- Burton, Charles S., Oak Park, assignor to Melville Clark Piano Company, Chicago, Ill. Combined piano and phonograph. No. 1,300,244; Apr. 15; v. 261; p. 421.
- Burton, Elisha L., Thealka, assignor of one-half to C. C. Henkel, Paintsville, Ky. Non-binding switch. No. 1,301,099; Apr. 22; v. 261; p. 639.
- Burton, Elisha L., Thealka, assignor of one-half to C. C. Henkel, Paintsville, Ky. Automatic switch. No. 1,301,100; Apr. 22; v. 261; p. 639.
- Burton, Frank F. (See Johnson and Burton.)
- Burton, Frank F., East Haven, assignor to Winchester Repeating Arms Co., New Haven, Conn. Telescope-sight for firearms. No. 1,293,325; Feb. 4; v. 259; p. 82.
- Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-action gun. No. 1,322,227; Nov. 18; v. 268; p. 466.
- Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Extractor for breakdown guns. No. 1,322,287; Nov. 18; v. 268; p. 478.
- Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ventilated sight-rib for single-barrel firearms. No. 1,323,151; Nov. 25; v. 268; p. 691.
- Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-action gun. No. 1,324,493; Dec. 9; v. 269; p. 285.
- Burton, Frank F., Mount Carmel, and A. F. Laudensack, assignors to Winchester Repeating Arms Co., New Haven, Conn. Rear sight for firearms. No. 1,321,508; Nov. 11; v. 268; p. 281.
- Burton, George C., Louisville, Ky. Cord-fastener lock. No. 1,311,040; July 22; v. 264; p. 655.
- Burton, Grant, Duncanville, Ala. Turpentine-still. No. 1,293,027; Feb. 4; v. 259; p. 13.
- Burton, Irwin G., New York, N. Y. Alighting and launching stage for aeroplanes. No. 1,291,668; Jan. 14; v. 258; p. 418.
- Burton, James K. (See Wright, James B., assignor.)
- Burton, James W., Welch, W. Va. Spark-plug tester. No. 1,297,087; Mar. 11; v. 260; p. 323.
- Burton, John E., Oakville, Ontario, Canada. Lifting-buoy. No. 1,299,121; Apr. 1; v. 261; p. 115.
- Burton Page Company, The. (See Frimand, Peter A., assignor.)
- Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Hanger device for brake-shoes. No. 1,296,917; Mar. 11; v. 260; p. 285.
- Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-beam with removable trunnions. No. 1,307,618; June 24; v. 263; p. 540.
- Burton, Thomas L., assignor to American Brake Company, St. Louis, Mo. Brake slack-adjuster. No. 1,309,933; July 15; v. 264; p. 422.
- Burton, Thomas L., assignor to American Brake Company, St. Louis, Mo. Slack-adjuster. No. 1,309,934; July 15; v. 264; p. 422.
- Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-head connection. No. 1,314,853; Sept. 2; v. 266; p. 70.
- Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-rigging release device. No. 1,319,043; Oct. 21; v. 267; p. 351.
- Bury, Oney. (See Bury, Thomas J. and O.)
- Bury, Thomas J. and O., Houston, Tex. Aerial projectile. No. 1,294,392; Feb. 18; v. 259; p. 396.
- Busacker, John, assignor of one-half to H. Hoffmann, Utica, N. Y. Garment with adjustable waistband. No. 1,304,452; May 20; v. 262; p. 435.
- Busby, Harley S., Washington, Iowa. Hog-oller. No. 1,295,115; Feb. 25; v. 259; p. 587.
- Busby, Harley S., assignor to Western Hog Oller Company, Washington, Iowa. Dipping-wheel. No. 1,295,114; Feb. 25; v. 259; p. 587.
- Busby, Junius E., assignor of one-half to C. H. Keith, Trafford, Ala. Oiling device. No. 1,301,816; Apr. 29; v. 261; p. 810.
- Busby, Nahum J., Sr., Boston, Mass. Adjustable and interchangeable cravat and bow. No. 1,308,731; July 1; v. 264; p. 133.
- Busby, William M., Matthews, Mo. Fire-escape. No. 1,318,262; Oct. 7; v. 267; p. 115.
- Busch, Arthur L., assignor to Samuel L. Moore & Sons Corporation, Elizabeth, N. J. Submarine torpedo-tube construction. No. 1,305,876; June 3; v. 263; p. 122.
- Busch, Charles H., Wichita, Kans. Stave for silos and the like. No. 1,320,989; Nov. 4; v. 268; p. 119.
- Busch, Herbert C., Jackson, Mich. Connector and terminal for storage batteries. No. 1,292,247; Jan. 21; v. 258; p. 592.
- Busch, Joseph, Detroit, Mich. Rim retracting and distending device. No. 1,324,033; Dec. 9; v. 269; p. 197.
- Busch-Sulzer Bros.-Diesel Engine Company. (See Heutschke, Paul, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Kilchenmann, Samuel, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Rotter, Max, assignor.)
- Buschor, Frank M., Coldwater, Ohio. Resilient wheel. No. 1,324,726; Dec. 9; v. 269; p. 329.
- Bush, Charles A., Brooklyn, N. Y. Munition-projectile. No. 1,310,790; July 22; v. 264; p. 610.
- Bush, Eppsey E., Galveston, Tex. Winch attachment. No. 1,301,224; Apr. 22; v. 261; p. 665.
- Bush, Eugene, Washington, D. C. Valve construction. No. 1,307,391; June 24; v. 263; p. 499.



## Alphabetical list of patentees—Continued.

- Bush, Everett M., assignor of one-half to P. Brown, Haverstraw, N. Y. Wrench. No. 1,293,696; Feb. 11; v. 259; p. 198.
- Bush, Hardy, Newark, N. J. Safety-pin. No. 1,299,675; Apr. 8; v. 261; p. 270.
- Bush, Hazel B., Redlands, Calif. Straight line-wire clamp for stretching wires. No. 1,320,600; Nov. 4; v. 268; p. 45.
- Bush, Hazel B., Redlands, Calif. Paint-bucket or the like. No. 1,320,733; Nov. 4; v. 268; p. 70.
- Bush, Philip M., Hartford, Conn. Jig-filling mechanism. No. 1,298,172; Mar. 25; v. 260; p. 609.
- Bush, Roy W., Satus, Wash. Tire-tool. No. 1,300,924; Apr. 15; v. 261; p. 565.
- Bush, Samuel P. (See McCormick, John H., assignor.)
- Bush, T. L. (See Taylor, Preston G., assignor.)
- Bushey, Eli J., New York, N. Y. Air-moistener. No. 1,312,948; Aug. 12; v. 265; p. 239.
- Bushkovski, John, American Expeditionary Forces. Picture-frame. No. 1,308,695; July 1; v. 264; p. 126.
- Bushnell, Charles S., Sydney, New South Wales, Australia, assignor to General Railway Signal Company, Gates, N. Y. Railway-traffic-controlling system. No. 1,299,295; Apr. 1; v. 261; p. 155.
- Bushnell, Frederick P., Philadelphia, Pa. Adjustable tab-protector. No. 1,317,265; Sept. 30; v. 266; p. 624.
- Bushnell, John B., Vacaville, assignor to Bushnell Magneto Company, San Francisco, Cal. Magneto. No. 1,290,710; Jan. 7; v. 258; p. 109.
- Bushnell Magneto Company. (See Bushnell, John B., assignor.)
- Bushnell Manufacturing Company, The. (See Coffman, Samuel M., assignor.)
- Busk, Anthony S., Woodhaven, assignor to R. Hoe and Co., New York, N. Y. Sheet-registering mechanism for tin sheets. No. 1,321,807; Nov. 18; v. 268; p. 388.
- Bussard, Charles W., Hylthville, Ark. Fireproof box. No. 1,309,458; July 8; v. 264; p. 296.
- Busse, Edwin G., and A. P. Kissler, assignors to Chicago Railway Equipment Company, Chicago, Ill. Rail-anchor. No. 1,312,153; Aug. 5; v. 265; p. 58.
- Busse, Walter W., Los Angeles, Calif. Comb-cleaner. No. 1,297,789; Mar. 18; v. 260; p. 503.
- Bussey, William H., Minneapolis, Minn. Planting-box. No. 1,300,245; Apr. 15; v. 261; p. 421.
- Bussinger, Eugene M., and J. Weiss, Chicago, Ill. Gear-shifting device. No. 1,316,828; Sept. 23; v. 266; p. 506.
- Bussler, Thomas, Wheelersburg, assignor of one-half to J. E. Hannah, and one-half to W. H. Hannah, Portsmouth, Ohio. Device for holding cleaning utensils. No. 1,320,311; Oct. 28; v. 267; p. 613.
- Buswell, Howard C., Jefferson, Iowa. Antisluxation device. No. 1,294,393; Feb. 18; v. 259; p. 396.
- Butcher, Charles E., Nashville, Tenn. Broom-holder. No. 1,318,539; Oct. 14; v. 267; p. 229.
- Butcher, Elmer E., Interlaken, N. J., assignor to Marconi Wireless Telegraph Company of America. Method of and apparatus for eliminating static effects. No. 1,306,170; June 10; v. 263; p. 207.
- Butcher, Harry E., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,317,860; Oct. 7; v. 267; p. 38.
- Butcher, James M., Chicago, Ill. Alarm mechanism. No. 1,301,783; Apr. 22; v. 261; p. 774.
- Butcher, James M., assignor, by mesne assignments, to Marshall Dobbins & Co., Chicago, Ill. Portable burglar-alarm. No. 1,310,941; July 22; v. 264; p. 636.
- Butcher, Joseph A., Sulphur, La. Oil-tank. No. 1,311,753; July 29; v. 264; p. 821.
- Butkus, John A. (See Blumberg and Butkus.)
- Butler, Albert F., Sharon, Pa. Bowling-alley. No. 1,302,897; May 6; v. 262; p. 80.
- Butler, Alice H., Evanston, Ill. Garment. No. 1,305,192; May 27; v. 262; p. 613.
- Butler, Benjamin F., Greenfield, Mass., assignor to Greenfield Tap and Die Corporation. Pipe-threading apparatus. No. 1,306,171; June 10; v. 263; p. 207.
- Butler, C. H., et al. (See Haynes, Jackson C., assignor.)
- Butler, Charles R. (See Cornell, Herbert V., assignor.)
- Butler, David, Montezuma, N. Y. Tire-rim tool. No. 1,323,961; Dec. 2; v. 269; p. 139.
- Butler, Edward M., Croton Falls, N. Y., assignor of one-third to L. L. Sargent, Washington, D. C. Detachable horseshoe-calk. No. 1,318,841; Oct. 14; v. 267; p. 286.
- Butler, Fergus A., Danvers, Mass. Fabric. No. 1,315,179; Sept. 2; v. 266; p. 129.
- Butler, Frank M., et al. (See Cole, Melville R., assignor.)
- Butler, Frederick K., Seattle, Wash. Eraser. No. 1,290,900; Jan. 14; v. 258; p. 239.
- Butler, George P., Lebanon, N. H. Machine for trimming tennpins. No. 1,313,064; Aug. 12; v. 265; p. 263.
- Butler, George P., Lebanon, N. H. Bit. No. 1,321,007; Nov. 4; v. 268; p. 123.
- Butler, Henry E., Schenectady, N. Y. Adjustable back-rest. No. 1,297,088; Mar. 11; v. 260; p. 323.
- Butler, Henry G., Hillsboro, Tex. Making ballast. No. 1,294,613; Feb. 18; v. 259; p. 448.
- Butler, Hiram W., Elmira, N. Y. Double adjustable mortise-cutter. No. 1,323,828; Dec. 2; v. 269; p. 114.
- Butler, James F., Quinlan, Tex. Washboard. No. 1,324,794; Dec. 16; v. 269; p. 404.
- Butler, James L. (See Converse and Butler.)
- Butler, James L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tool-mounting for tire-machines. No. 1,300,341; Apr. 15; v. 261; p. 442.
- Butler, James L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for rolling tire bead-cores. No. 1,318,643; Oct. 14; v. 267; p. 249.
- Butler, James M., et al. (See Dickenson, Robert C., assignor.)
- Butler, Jay W., Glencoe, Ill. Fusible link. No. 1,311,873; Aug. 5; v. 265; p. 4.
- Butler, John S., U. S. Army. Biped rest for firearms. No. 1,295,688; Feb. 25; v. 259; p. 720.
- Butler, John W., assignor of one-half to F. G. Metcalf, Bethel, Conn. Vaporizer. No. 1,314,386; Aug. 26; v. 265; p. 564.
- Butler, Leonard F. G. (See Fedden and Butler.)
- Butler, Matthew W., assignor to The Harshaw, Fuller & Goodwin Company, Cleveland, Ohio. Making lead arsenate. No. 1,324,300; Dec. 9; v. 269; p. 248.
- Butler, Viola A., New York, N. Y. Broom-rack. No. 1,319,844; Oct. 28; v. 267; p. 526.
- Butler, Walter E., et al. (See Butler, William R., assignor.)
- Butler, William, Jr. (See McGrath, Patrick J., assignor.)
- Butler, William F., Fairport, assignor to American Can Company, New York, N. Y. Method of and apparatus for positioning and cutting fish. No. 1,320,990; Nov. 4; v. 268; p. 119.
- Butner, William R., assignor of one-third to himself, one-third to T. R. Seamon, and one-third to W. E. Butler, Topaz, Cal. Hay-rake. No. 1,294,233; Feb. 11; v. 259; p. 325.
- Butrick, James A., assignor of one-third to J. B. Atkinson and one-third to J. R. Whitman, Watertown, Wis. Hanger. No. 1,320,445; Nov. 4; v. 268; p. 17.
- Butridge, James H., Chicago, Ill., assignor to Hall Switch & Signal Co. Signaling system. No. 1,322,178; Nov. 18; v. 268; p. 457.
- Butsumyo, Satoru, O'Brien, Wash. Device for demonstrating the operation of reciprocating engines. No. 1,292,700; Jan. 28; v. 258; p. 722.
- Butte, Charles F. (See Butte, Paul C. and C. F.)
- Butte, Paul C. and C. F., San Francisco, Cal. Water-tight electric bell mechanism. No. 1,290,901; Jan. 14; v. 258; p. 239.
- Butter, Francis J., Wolverhampton, assignor to Chubb and Son's Lock and Safe Company, Limited, London, England. Permutation-lock. No. 1,308,521; July 1; v. 264; p. 93.
- Butterfield, Anne W., Columbus, Ohio. Sanitary table utensil. No. 1,310,903; July 22; v. 264; p. 629.
- Butterfield, Charles V., Los Angeles, Cal., assignor of one-fourth to E. Wiese, one-fourth to E. Lyons, and one-fourth to D. T. Bentley. Audible pressure-indicator. No. 1,296,160; Mar. 4; v. 260; p. 80.
- Butterick Publishing Company, The. (See Millard, Hannah G., assignor.)
- Butterman, Samuel, Madison, Wis., assignor to United States of America. Manufacturing waterproof adhesives. No. 1,291,396; Jan. 14; v. 258; p. 354.
- Butters Camp Mfg. Co., The. (See Butters, Robert H., assignor.)
- Butters, Robert H., Atlantic, Ga., assignor to The Butters Camp Mfg. Co. Gin-saw-sharpening machine. No. 1,298,002; Mar. 25; v. 260; p. 573.
- Butterworth-Judson Corporation. (See Jones, Whitney B., assignor.)
- Butterworth, Samuel D., Lansing, Mich. Apparatus and method for loading automobiles. No. 1,299,912; Apr. 8; v. 261; p. 323.
- Butterworth, Samuel D., Lansing, Mich. Method and apparatus for loading automobiles. No. 1,304,656; May 27; v. 262; p. 512.
- Button, Frank F., New York, N. Y. Vehicle-control system. No. 1,307,345; June 24; v. 263; p. 491.
- Button, Leonard, Birmingham, Ala. Sanitary dry closet. No. 1,298,658; Apr. 1; v. 261; p. 8.
- Buttonlath Manufacturing Company. (See Farnum, Loring N., assignor.)
- Buttonlath Manufacturing Company. (See Sexton, James P., assignor.)
- Butts, Frederick H., Detroit, Mich., assignor to W. P. Hill, St. Louis, Mo. Garment-fastener. No. 1,322,288; Nov. 18; v. 268; p. 478.
- Butusov, William P., Tampa, Fla. Aeroplane. No. 1,323,829; Dec. 2; v. 269; p. 114.
- Buvinger, Ralph R., Meridian, Miss., assignor to R. Hoe and Co., New York, N. Y. Printer's chase. No. 1,292,701; Jan. 28; v. 258; p. 722.
- Buxbaum, John, Georgetown, Wash. Manufacturing gun-powder. No. 1,293,326; Feb. 4; v. 259; p. 82.
- Buxton, Francis E., Indianapolis, Ind. Journal-bearing. No. 1,313,466; Aug. 19; v. 265; p. 355.
- Buxton, Francis E., Indianapolis, Ind. Machine for packing disk-like articles in tubular containers. No. 1,319,922; Oct. 28; v. 267; p. 540.
- Buysse, Charles E. (See Emerson and Buysse.)



- Buzatt, Walter, Blue Ash, assignor to the Lippincott Company, Cincinnati, Ohio. Machine for securing metallic caps to bottles. No. 1,319,845; Oct. 28; v. 267; p. 526.
- Buzzacott Camp and Field Equipment Co. (See Ilitz, Michael, assignor.)
- Buzzard, Jessie O. (See Tharp, Harvey E., assignor.)
- Buzzo, Joseph T. (See Moore and Buzzo.)
- By-Products Manufacturing Company. (See Huff, Frederick C., assignor.)
- By-Products Manufacturing Company. (See Ruff, Frederick C., assignor.)
- Byars, Travis M., Blount Springs, Ala. Collapsible egg and fruit case. No. 1,320,212; Oct. 28; v. 267; p. 613.
- Bye, Mortimer, Indianapolis, Ind. Rocker-holder for liquid-containers. No. 1,299,296; Apr. 1; v. 261; p. 155.
- Byers, Charles E., *et al.* (See Whitcomb, James, assignor.)
- Byers, Earl, Belle Plaine, Iowa. Fly-wheel. No. 1,323,962; Dec. 2; v. 269; p. 139.
- Byers, George T., Nyack, N. Y. Fountain-pen. No. 1,325,392; Dec. 16; v. 269; p. 514.
- Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Rail-anchor. No. 1,296,263; Mar. 4; v. 260; p. 102.
- Byers, Joseph J., Brookline, assignor to Products Syndicate, Inc., Boston, Mass. Impregnated and coated sheet of fibrous material and producing same. No. 1,290,073; Jan. 7; v. 258; p. 14.
- Byers, Joseph J., Brookline, assignor to Products Syndicate, Inc., Boston, Mass. Sheet material and treating the same. No. 1,325,075; Dec. 16; v. 269; p. 456.
- Byers, Julius C., Reno, Nev. Sewing-cabinet. No. 1,302,305; Apr. 29; v. 261; p. 902.
- Bynoe, Frederick O., Twickenham, England. Superheater for air, vapor, or gas. No. 1,298,883; Apr. 1; v. 261; p. 61.
- Bynum, Hugh R., Clarkesdale, Miss. Gass burner and decarbonizer. No. 1,290,074; Jan. 7; v. 258; p. 14.
- Byors, Fred W., Kansas City, Mo. Starting-crank lock for motor-vehicles. No. 1,295,689; Feb. 25; v. 259; p. 720.
- Byrd, Clarence, Opp, Ala. Reducing-mill. No. 1,298,289; Mar. 25; v. 260; p. 634.
- Byrd, Samuel M., Kosciusko, Miss., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,318,435; Oct. 14; v. 267; p. 209.
- Byrne, David, assignor of one-third to W. M. Gore and one-third to C. T. Lawton, Toledo, Ohio. Terminal member and fixture-stud-attaching means. No. 1,323,152; Nov. 25; v. 268; p. 692.
- Byrne, Patrick S., Brooklyn, assignor to Printing Ink Compound Company, Inc., New York, N. Y. Composition for preventing smut of printing-ink. No. 1,316,531; Sept. 16; v. 266; p. 403.
- Byrne, Thomas W., Boston, Mass. Carbon element and making the same. No. 1,316,765; Sept. 23; v. 266; p. 495.
- Byrnes, Clarence P., Sewickley, Pa. Vaporizing-carburetor. No. 1,302,762; May 6; v. 262; p. 53.
- Byrnes, Clarence P., Sewickley, Pa. Method of and apparatus for drawing hollow glass. No. 1,326,571; Dec. 30; v. 269; p. 789.
- Byrnes, Patrick J., and B. B. Osburn, Rochester, N. Y. Manufacturing shoes. No. 1,313,065; Aug. 12; v. 265; p. 263.
- Byrns, Brownlow. (See Bryant, Clarence R., assignor.)
- Byron Jackson Iron Works. (See Paulsmeier, Albert C., assignor.)
- Byron Jackson Iron Works. (See Schorr, Robert, assignor.)
- Byron, Kenneth M., Detroit, Mich., assignor to O. E. Byron, Washington, D. C. Draft and steering gear. No. 1,308,476; July 1; v. 264; p. 85.
- Byron, Orra E. (See Byron, Kenneth, assignor.)
- Byrum, Roscoe J., New Rockford, N. D. Dispensing-can. No. 1,298,003; Mar. 25; v. 260; p. 573.
- Bystrom, John A., Brainerd, Minn. Clasp-button. No. 1,293,327; Feb. 4; v. 259; p. 82.
- Bythiner, William W., and F. Montague, Philadelphia, Pa. Vent-box. No. 1,305,767; June 3; v. 263; p. 102.
- C. A. Vandervell & Company. (See Midgley, Albert H., assignor.)
- C. B. Cottrell & Sons Company. (See Barber, Howard M., assignor.)
- C. C. Blake, Incorporated. (See Blake, Charles C., assignor.)
- C. C. Blake, Incorporated. (See Small, Lewis F., assignor.)
- C. D. Durkee & Company. (See Dame, George B., assignor.)
- C. F. Burgess Laboratories. (See Storey, Oliver W., assignor.)
- C. G. Conn, Limited. (See Gulick, Edward J., assignor.)
- C. G. Conn, Ltd. (See Gulick, Edward J., assignor.)
- C. G. Sargent's Sons Corporation. (See Sargent, Frederick G., assignor.)
- C. H. Smith Company. (See Trotman, Walter G., assignor.)
- C. H. Wheeler Manufacturing Company. (See Suczek, Robert, assignor.)
- C. J. Bates & Son. (See Watrous, William R., assignor.)
- C. J. Tagliabue Manufacturing Company. (See Wright, William H., assignor.)
- C. J. White Manufacturing Company, The. (See North, James S., assignor.)
- C. Kenyon Company. (See Alfandri, Albert G., assignor.)
- C. L. I. Manufacturing Company, The. (See Watson, Ernest A., assignor.)
- C. N. Wisner Cotton Picker Company. (See Wisner, Clark N., assignor.)
- C. O. Bartlett and Snow Company, The. (See Dupuy, Arthur O., assignor.)
- C. P. G. Company. (See Chamier and Curtis, assignors.)
- C. R. Carver Company. (See Lockwood, Edward M., assignor.)
- C. R. & W. A. Nelson. (See Nelson, Charles R., assignor.)
- C. & V. Casting Co. (See Gill, Philip L., assignor.)
- Cable Company, The. (See Klugh, Paul B., assignor.)
- Cable Company, The. (See Pollard, Willard L., assignor.)
- Cable Company, The. (See Swensen, Alfred, assignor.)
- Cable, Herbert H., Los Angeles, Calif. Engine. No. 1,322,406; Nov. 18; v. 268; p. 501.
- Cabot, Godfrey L. (See Crommett, Charles F., assignor.)
- Cabot, Samuel, Canton, assignor to Samuel Cabot, Inc., Boston, Mass. Waterproof cement. No. 1,305,645; June 3; v. 263; p. 79.
- Cabot, Samuel, assignor to Samuel Cabot, Inc., Canton, Mass. Coating composition. No. 1,308,575; July 1; v. 264; p. 104.
- Cabrera, Margarito, San Antonio, Tex. Cotton-cleaner. No. 1,303,026; May 6; v. 262; p. 104.
- Caccese, Vincent L., Asbury Park, N. J. Searchlight. No. 1,318,263; Oct. 7; v. 267; p. 116.
- Caccialanza, Romeo, assignor to Western Doll and Toy Mfg. Co., Los Angeles, Cal. Doll-head. No. 1,297,089; Mar. 11; v. 260; p. 323.
- Caddell, Charles J., Maxton, N. C. Plow. No. 1,297,320; Mar. 18; v. 260; p. 403.
- Cadden, Charles C. (See Gehring and Cadden.)
- Cadden, Frank, Chicago, Ill. Collar-button. No. 1,308,696; July 1; v. 264; p. 126.
- Cade, Baylus, assignor to Cade Manufacturing Company, Shelby, N. C. Casting mechanism for typographical machines. No. 1,326,477; Dec. 30; v. 269; p. 770.
- Cade, Enos B., Seattle, Wash. Measuring device. No. 1,300,116; Apr. 8; v. 261; p. 367.
- Cade Manufacturing Company. (See Cade, Baylus, assignor.)
- Cade, Robert S., Canton, Ohio. Mold for concrete window or door frames and trims. No. 1,326,251; Dec. 30; v. 269; p. 729.
- Cade, William H., Temple, Tex. Finger-guard for children. No. 1,319,692; Oct. 28; v. 267; p. 497.
- Cadenel, Louis, Paris, France. Electromagnetic locking device. No. 1,304,453; May 20; v. 262; p. 435.
- Cadgene, Dr. Ernest, *et al.* (See Koch, George, assignor.)
- Cadieus, Joseph O., assignor to Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Push-button switch. No. 1,303,634; May 13; v. 262; p. 244.
- Cadieus, Louis E. (See Hanson, Harry, assignor.)
- Cadillac Motor Car Company. (See Foltz, William E., assignor.)
- Cadillac Motor Car Company. (See Johnson, Frank, assignor.)
- Cadillac Motor Car Company. (See Lumby, Avery L., assignor.)
- Cadillac Motor Car Company. (See Ryerson, Charles S., assignor.)
- Cadillac Motor Car Company. (See Snell and Johnson, assignors.)
- Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)
- Cadillac Motor Car Company. (See Waldon, Sidney D., assignor.)
- Cadillac Motor Car Company. (See White, D'Orsay M., assignor.)
- Cadillac Motor Car Company. (See White and Snell, assignors.)
- Cadillac Tool Co. (See Krueger, Henry R., assignor.)
- Cadman, Addi B., Beloit, Wis., assignor, by mesne assignments, to Warner Manufacturing Company, South Beloit, Ill. Automobile-trailer coupling (Reissue.) No. 14,582; Jan. 7; v. 258; p. 202.
- Cadman, Addi B., Beloit, Wis., assignor, by mesne assignments, to Warner Manufacturing Company, South Beloit, Ill. Trailer-truck. No. 1,304,261; May 20; v. 262; p. 397.
- Cadman, Addi B., Beloit, Wis., assignor, by mesne assignments, to Warner Manufacturing Company, South Beloit, Ill. Trailer-truck. No. 1,305,521; June 3; v. 263; p. 55.
- Cadman, Addi B., Beloit, Wis., assignor to Warner Manufacturing Company, South Beloit, Ill. Means for transporting logs or the like. No. 1,308,039; July 1; v. 264; p. 6.
- Cadman, Ralph W., Edgewood, Pa. Blow-off valve. No. 1,298,173; Mar. 25; v. 260; p. 609.



## Alphabetical list of patentees—Continued.

- Cadmus, Alfred B., New York, N. Y. Locking device. No. 1,308,697; July 1; v. 264; p. 126.
- Cadmus, Arthur W., Fanwood, N. J., assignor to The W. F. Powers Company, New York, N. Y. Display device. No. 1,304,737; May 27; v. 262; p. 527.
- Cadwalader, Thomas, Salem, Ohio. Hydraulic motor. No. 1,301,225; Apr. 22; v. 261; p. 665.
- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rheostat. No. 1,290,075; Jan. 7; v. 258; p. 15.
- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Method of and apparatus for electric welding. No. 1,290,076; Jan. 7; v. 258; p. 15.
- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Electric furnace. No. 1,290,902; Jan. 14; v. 258; p. 239.
- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Electric welding apparatus. No. 1,290,903; Jan. 14; v. 258; p. 239.
- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Method of and apparatus for welding. No. 1,300,117; Apr. 8; v. 261; p. 367.
- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Furnace. No. 1,322,756; Nov. 25; v. 268; p. 617.
- Cady, Edward B., Chicago, Ill. Corset-closure. No. 1,295,690; Feb. 25; v. 259; p. 720.
- Cady, Elisha J., Oak Park, Ill. Micrometer-caliper. No. 1,300,210; Apr. 8; v. 261; p. 387.
- Cady, Elisha J., Chicago, Ill. Box. No. 1,302,507; May 6; v. 262; p. 6.
- Cady, Elisha J., Oak Park, Ill. Paper-scale. No. 1,321,595; Nov. 11; v. 268; p. 297.
- Cady, Ulysses G., assignor of one-half to E. B. Graves, Durkee, Oreg. Harrow. No. 1,301,226; Apr. 22; v. 261; p. 665.
- Cady, William M., Edgewood Park, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Card-door-operating mechanism. No. 1,292,430; Jan. 28; v. 258; p. 655.
- Caffey, Benjamin F., Birmingham, Ala. Process and apparatus for molding tyers and the like. No. 1,321,008; Nov. 4; v. 268; p. 123.
- Caffrey, Peter C., Newark, N. J. Brush. No. 1,313,515; Aug. 19; v. 265; p. 364.
- Cage Engine Syndicate Inc. (See Cage, John M., assignor.)
- Cage, John M., Detroit, Mich., assignor to Cage Engine Syndicate Inc. Internal-combustion engine. No. 1,294,395; Feb. 18; v. 259; p. 397.
- Cage, John M., Detroit, Mich. Internal-combustion engine and operating the same. No. 1,301,036; Apr. 15; v. 261; p. 590.
- Caba, Frank, Hemingford, Nebr. Sickle-bar for mowing-machines. No. 1,323,011; Nov. 25; v. 268; p. 665.
- Cahen, Jacques O., Epinal, France. Device for limiting the mechanical tension of electric line conductors. No. 1,319,374; Oct. 21; v. 267; p. 413.
- Cahill, Robert B., Chicago, Ill. Disappearing towel-cabinet. No. 1,312,385; Aug. 5; v. 265; p. 99.
- Cahill, Thaddeus, New York, N. Y. Art of and apparatus for generating and distributing music electrically. No. 1,295,691; Feb. 25; v. 259; p. 720.
- Cahill, Thomas J., Philadelphia, Pa. Airplane landing-platform. No. 1,326,020; Dec. 23; v. 269; p. 648.
- Cahn, Henry S. (See Siskin, Harry, assignor.)
- Cahow, Ervin, Tampa, Fla. Burner. No. 1,290,904; Jan. 14; v. 258; p. 240.
- Cabusac, Clarence N., Jersey City, N. J., assignor to Slocum Avram & Slocum Inc., New York, N. Y. Electro-mechanical registering and resetting mechanism. No. 1,313,066; Aug. 12; v. 265; p. 263.
- Cailleteau, Fernand, Atlanta, Ga. Adjustable safety-razor. No. 1,295,002; Feb. 18; v. 259; p. 538.
- Cain, Harry N., assignor to The Donley Brothers Company, Cleveland, Ohio. Insert for concrete. No. 1,314,854; Sept. 2; v. 266; p. 70.
- Cain, James W., Detroit, Mich. Automobile-radiator. No. 1,292,576; Jan. 28; v. 258; p. 691.
- Cain, R. W., et al. (See Anderson, John L., assignor.)
- Cain, Wesley R., Port Jervis, N. Y. Machine-brake. No. 1,303,460; May 13; v. 262; p. 212.
- Cain, William H., Los Angeles, Calif. Gas-radiator. No. 1,304,154; May 20; v. 262; p. 377.
- Caine, Marshall, Barborton, Ohio. Machine for inverting pipe. No. 1,312,017; Aug. 5; v. 265; p. 31.
- Caire, Eugene, Edgard, La. Candle-holder. No. 1,315,087; Sept. 2; v. 266; p. 112.
- Cake, Benjamin F. (See Adderson, James, and Cake.)
- Cake, Horace M., Philadelphia, Pa. Air-compressor. No. 1,316,139; Sept. 16; v. 266; p. 328.
- Calarco, Domenico, Burlington, Vt. Cannon. No. 1,326,021; Dec. 23; v. 269; p. 648.
- Calcaterra, Joe. (See Younger, Frank, assignor.)
- Calder, Leo R., Charleston, S. C. Cutter for dredgers. No. 1,316,349; Sept. 16; v. 266; p. 368.
- Calder, William J., Edinburgh, Scotland. Chimney cowl or top. No. 1,310,470; July 22; v. 264; p. 549.
- Calderon, Manuel, New York, N. Y. Sound recording and reproducing machine. No. 1,290,711; Jan. 7; v. 258; p. 169.
- Calderwood, Benjamin C., Valley Falls, R. I., assignor to Price-Campbell Cotton Picker Corporation, New York, N. Y. Journal-bearing mechanism for picking-fingers in cotton-picking machines. No. 1,313,255; Aug. 19; v. 265; p. 316.
- Calderwood, John M., Spanish Fork, Utah. Drill-holder. No. 1,296,918; Mar. 11; v. 260; p. 286.
- Caldwell, A. E. (See Knudson, Martin N., assignor.)
- Caldwell, Edward P., Harvey, Ill. Traction attachment for vehicles. No. 1,322,228; Nov. 18; v. 268; p. 466.
- Caldwell, Emmet E. (See Stabler and Caldwell.)
- Caldwell, Frank. (See Varwig and Caldwell.)
- Caldwell, George, Philadelphia, Pa. Manhole. No. 1,310,055; July 15; v. 264; p. 443.
- Caldwell, George B., Ottawa, Ontario, Canada. Combination hand-tool. No. 1,305,587; June 3; v. 263; p. 69.
- Caldwell, John, Corry, Pa. Mower-knife sharpener. No. 1,313,790; Aug. 19; v. 265; p. 416.
- Caldwell, John A., Vancouver, British Columbia, Canada. Enameled or granite ware cooking utensil. No. 1,308,622; July 1; v. 264; p. 112.
- Caldwell, John C., Miami, Fla. Fishing-rod. No. 1,319,268; Oct. 21; v. 267; p. 394.
- Caldwell, John C., and A. H. Adams, Miami, Fla. Automobile-puller. No. 1,290,077; Jan. 7; v. 258; p. 15.
- Caldwell, Morrison H., et al. (See Gardner, Lee, assignor.)
- Caldwell, Warren A., Oskaloosa, Iowa. Ventilated grain-crib or silo. No. 1,298,174; Mar. 25; v. 260; p. 609.
- Caldwell, William L., Indianapolis, Ind. Intake-manifold heater. No. 1,304,738; May 27; v. 262; p. 528.
- Calef, Ephraim B. (See Calef, George W. and E. B.)
- Calef, George W. and E. B., Boston, Mass. Gas-burner. No. 1,316,682; Sept. 23; v. 266; p. 480.
- Calef, Harry R., assignor to United States Wire Mat Company, Decatur, Ill. Box or carton. No. 1,304,020; May 20; v. 262; p. 353.
- Caleno, Ernest S., Montgomery county, near Dayton, Ohio. Explosive-engine attachment for bicycles. No. 1,317,154; Sept. 30; v. 266; p. 604.
- Calhoun, John W., Pittsburgh, Pa. Water-meter connection and valve. No. 1,300,925; Apr. 15; v. 261; p. 565.
- Calhoun, John W., Chester, Pa. Stop-cock box. No. 1,325,393; Dec. 16; v. 269; p. 515.
- California Alkali Company. (See Watson and Hirschkind, assignors.)
- California Corrugated Culvert Company. (See Wyman, Laurence W., assignor.)
- California Peach Growers (Inc.). (See Beekhuis, Hermanus A., assignor.)
- California Saw Works. (See Peter, James S., assignor.)
- Callagan, William L., Waterbury, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Buckle. No. 1,290,506; Jan. 7; v. 258; p. 119.
- Calisi, Adriano, Waterbury, Conn. War-car. No. 1,307,238; June 17; v. 263; p. 438.
- Calkins, Addison N., assignor to Electric Wheel Company, Quincy, Ill. Auxiliary engine-cooling means. No. 1,301,784; Apr. 22; v. 261; p. 774.
- Calkins, Charles H., Ludlow, Mass., assignor to Baush Machine Tool Company. Composite gear. No. 1,316,270; Sept. 16; v. 266; p. 353.
- Calkins, Harriette and Z. M., Varysburg, N. Y. Flower-holder. No. 1,308,623; July 1; v. 264; p. 112.
- Calkins, Harriette and Z. M., Varysburg, N. Y. Toy figure. No. 1,323,153; Nov. 25; v. 268; p. 692.
- Calkins, James M., Los Angeles, Calif. Dirigible lighting apparatus for vehicles. No. 1,315,463; Sept. 9; v. 266; p. 191.
- Calkins, Zelma M. (See Calkins, Harriette and Z. M.)
- Call, Franklin H., Portland, Oreg. Operating device for disk ink-erasers. No. 1,302,763; May 6; v. 262; p. 53.
- Callahan, Americus F., Chicago, Ill. Combined blank for letter or message writing. No. 1,303,838; May 13; v. 262; p. 282.
- Callahan, Charles J., and G. H. Roberts, Attleboro, Mass. Separable button. No. 1,321,596; Nov. 11; v. 268; p. 297.
- Callahan, Timothy F., Quincy, assignor of one-half to E. S. Dorr, Boston, Mass. Method and apparatus for sludge removal. No. 1,326,321; Dec. 30; v. 269; p. 741.
- Callahan, William C., Allentown, Pa. Producing heels. No. 1,305,060; May 27; v. 262; p. 588.
- Callan Bros. (See Dempsey, Arthur E., assignor.)
- Callaway, Edwin B., Medicine Lodge, Kans. Wrench. No. 1,326,022; Dec. 23; v. 269; p. 648.
- Callender, Wallace V., San Francisco, Calif. Resoldering ice-cans. No. 1,320,198; Oct. 28; v. 267; p. 591.
- Callery, Joseph C., Columbus, Ohio. Fuel-economizer mixer and controller. No. 1,310,173; July 15; v. 264; p. 465.
- Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Bottle-sealing machine. No. 1,294,396; Feb. 18; v. 259; p. 397.
- Calleson, Amos, Brooklyn, N. Y. Bottle-sealing machine. No. 1,299,551; Apr. 8; v. 261; p. 240.



- Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Bottle filling and sealing machine. (Reissue.) No. 1,465,7; June 10; v. 263; p. 303.
- Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Bottle-feeding mechanism. No. 1,309,935; July 15; v. 264; p. 422.
- Callow, William J., Toronto, Ontario, Canada. Flush-tank control. No. 1,290,905; Jan. 14; v. 258; p. 240.
- Calloway, James W., et al. (See Zartman, Charles M., assignor.)
- Callisen, Henry, Brooklyn, N. Y. Dental bridge. No. 1,323,743; Dec. 2; v. 269; p. 97.
- Calnan, James P., Southboro, Mass. Rake. No. 1,304,941; May 27; v. 262; p. 565.
- Calnan, James P., Southboro, Mass. Rake. No. 1,304,942; May 27; v. 262; p. 565.
- Calorex Corporation, The. (See Robertson, William P., assignor.)
- Calow, Stanley C., assignor of one-half to S. Bennett, Calgary, Alberta, Canada. Electrical heater for incubators. No. 1,322,161; Nov. 18; v. 268; p. 453.
- Calthrop, Everard R., London, England. Balloon. No. 1,302,007; Apr. 29; v. 261; p. 846.
- Calthrop, Everard R., London, England. Parachute-launching device. No. 1,302,898; May 6; v. 262; p. 80.
- Calthrop, Everard R., London, England. Parachute. No. 1,308,478; July 1; v. 264; p. 86.
- Calthrop, Everard R., London, England. Parachute. No. 1,326,023; Dec. 23; v. 269; p. 649.
- Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,291,762; Jan. 21; v. 258; p. 471.
- Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,295,968; Mar. 4; v. 260; p. 34.
- Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,299,122; Apr. 1; v. 261; p. 115.
- Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,299,123; Apr. 1; v. 261; p. 116.
- Calumet Steel Company. (See Gillespie, Alexander W., assignor.)
- Calvelage, Stephen G., Jamestown, N. D. Padlock. No. 1,322,531; Nov. 25; v. 268; p. 575.
- Calvert, Alan, assignor to The Mile Bar-Bell Co., Philadelphia, Pa. Dumb-bell. No. 1,316,683; Sept. 23; v. 266; p. 480.
- Calvert, Jackson. (See Macdonald and Calvert.)
- Calvert, James, assignor to R. M. Liddell, Donaghcloney, Ireland. Gripping device for holding flax during scutching operations. No. 1,323,012; Nov. 25; v. 268; p. 665.
- Calvert, Robert P., and O. L. Thomas, assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of methyl borate and boric acid from crude sodium nitrate. No. 1,308,576; July 1; v. 268; p. 104.
- Calvert, Robert P., and O. L. Thomas, assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Obtaining boric acid from mixtures containing borates. No. 1,308,577; July 1; v. 264; p. 104.
- Calvin, Albert W., Pittsburgh, Pa. Antifriction side bearing. No. 1,320,122; Oct. 28; v. 267; p. 577.
- Camba, Carlos M. and G. M., Habana, Cuba. Sound-reproducing machine. No. 1,326,572; Dec. 30; v. 269; p. 789.
- Camba, Guillermo M. (See Camba, Carlos M. and G. M.)
- Cambell, Perry L., Douglas, Wyo. Finger-ring and mounting therefor for gems. No. 1,293,028; Feb. 4; v. 259; p. 13.
- Camberos, David S. (See Camberos, Santiago and D. S.)
- Camberos, Santiago and D. S., Tucson, Ariz. Air-cooling machine. No. 1,307,656; June 24; v. 263; p. 547.
- Cambridge, Allan S., Auckland, assignor to L. Nelson, Wellington, New Zealand. Gas-producer. No. 1,318,644; Oct. 14; v. 267; p. 249.
- Cambridge, Alonzo C., Charleston, S. C. Bicycle and lamp. No. 1,315,088; Sept. 2; v. 266; p. 113.
- Cameron, Alexander E., Providence, R. I., and R. S. Riley, assignors to Sanford Riley Stoker Co. Ltd., Worcester, Mass. Pneumatic regulator for engine-governors. No. 1,317,955; Oct. 7; v. 267; p. 56.
- Cameron Can Machinery Co. (See Cameron, William, assignor.)
- Cameron Can Machinery Co. (See Hedstrom, Gus, assignor.)
- Cameron, Charles S., Columbus, Ohio. Raft. No. 1,316,016; Sept. 16; v. 266; p. 305.
- Cameron, Donald. (See Cameron, Hugh, assignor.)
- Cameron, Donald, St. Johns, Quebec, Canada, assignor to The Singer Manufacturing Company. Woodworking-machine. No. 1,300,815; Apr. 15; v. 261; p. 542.
- Cameron, Duncan, Detroit, Mich. Resilient wheel. No. 1,297,790; Mar. 18; v. 260; p. 503.
- Cameron, Duncan, Detroit, Mich. Resilient wheel. No. 1,297,791; Mar. 18; v. 260; p. 503.
- Cameron, Gordon, Wollaston, assignor to S. B. Condit, Jr., Brookline, Mass. Selective interlocking-switch mechanism. No. 1,324,640; Dec. 9; v. 269; p. 313.
- Cameron, Harry, Manchester, England. Machine for cutting recesses and holes out of metal plates. No. 1,322,876; Nov. 25; v. 268; p. 640.
- Cameron, Hugh R. (See Smith and Cameron.)
- Cameron, Hugh, Union Course, assignor to D. Cameron, Brooklyn, N. Y. Scale. No. 1,316,271; Sept. 16; v. 266; p. 353.
- Cameron, James A., Brooklyn, N. Y. Moving-picture machine. No. 1,307,957; June 24; v. 263; p. 603.
- Cameron, James A., Brooklyn, N. Y., assignor to Cameron Picture Machine Co. Moving-picture machine. No. 1,319,846; Oct. 28; v. 267; p. 526.
- Cameron, James A., Brooklyn, N. Y. Moving-picture machine. No. 1,319,847; Oct. 28; v. 267; p. 527.
- Cameron, James A., Brooklyn, N. Y. Moving-picture machine. No. 1,324,102; Dec. 9; v. 269; p. 209.
- Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,310,153; July 15; v. 264; p. 461.
- Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,314,786; Sept. 2; v. 266; p. 58.
- Cameron, James A., and G. B. Birch, assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting and rewinding machine. No. 1,326,644; Dec. 30; v. 269; p. 802.
- Cameron, Jarrett L., Edgerly, assignor of one-half to Evangeline Iron Works Ltd., Vinton, La. Rotary core-cutting drill for wells. No. 1,301,541; Apr. 22; v. 261; p. 725.
- Cameron, John A. (See Campbell and Cameron.)
- Cameron Machine Company. (See Birch, Gustaf B., assignor.)
- Cameron Machine Company. (See Cameron and Birch, assignors.)
- Cameron Picture Machine Co. (See Cameron, James A., assignor.)
- Cameron, Robert G., San Antonio, Tex. Lock. No. 1,317,547; Sept. 30; v. 266; p. 678.
- Cameron, Shelton T., Washington, D. C., and E. R. Inman, Franklin, Pa. Packer for oil-wells. No. 1,318,352; Oct. 14; v. 267; p. 192.
- Cameron, Taylor M., Wray, Colo. Windmill. No. 1,315,594; Sept. 9; v. 266; p. 214.
- Cameron, William, Oak Grove, Mich. Shell. No. 1,302,008; Apr. 29; v. 261; p. 846.
- Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Blank-feeding mechanism. No. 1,318,540; Oct. 14; v. 267; p. 229.
- Cameron, William, assignor to Torris Wold & Company, Chicago, Ill. Beading and flanging machine. No. 1,321,885; Nov. 18; v. 268; p. 402.
- Cameron, William W. (See Davis and Cameron.)
- Cameron, William W., assignor to La Crosse Plow Company, La Crosse, Wis. Plow. No. 1,301,539; Apr. 22; v. 261; p. 725.
- Cameron, William W., assignor to La Crosse Plow Company, La Crosse, Wis. Plow. No. 1,301,540; Apr. 22; v. 261; p. 725.
- Camfield, Emery L., St. Louis, Mo. Engine-valve. No. 1,304,155; May 20; v. 262; p. 377.
- Camm, Charles E., Salt Lake City, Utah, assignor of one-half to W. H. Turver, Los Angeles, Calif. Electrically-heated garment. No. 1,312,830; Aug. 12; v. 265; p. 216.
- Camm, John A. (See Shields and Camm.)
- Cammans, Paul, Seattle, Wash. Submersible cooking apparatus. No. 1,317,071; Sept. 23; v. 266; p. 551.
- Cammen, Leon. (See Goldmerstein, Leon.)
- Cammen, Leon, New York, N. Y. Aeroplane. No. 1,294,234; Feb. 11; v. 259; p. 326.
- Cammen, Leon, New York, N. Y. Temperature-control apparatus. No. 1,296,761; Mar. 11; v. 260; p. 249.
- Cammen, Leon, New York, N. Y. Apparatus for cooling oil. No. 1,297,292; Mar. 11; v. 260; p. 367.
- Cammen, Leon, New York, N. Y. Thermostatic control means for motors. No. 1,303,768; May 13; v. 262; p. 269.
- Cammen, Leon, New York, N. Y. Cooling system for internal-combustion motors. No. 1,313,620; Aug. 19; v. 265; p. 385.
- Camp, David, Philadelphia, Pa. Device for straightening bent or irregular axle-housings. No. 1,314,945; Sept. 2; v. 266; p. 86.
- Camp, Ernest, San Diego, Calif. Sight storage-battery tester. No. 1,308,223; July 1; v. 264; p. 40.
- Camp, Ervin M., Denver, Colo. Electrically-operating surgical-needle device. No. 1,311,494; July 29; v. 264; p. 773.
- Camp, Ervin M., Denver, Colo. Extensible supporting-stand for multiple numbers of electrically-operating surgical needles. No. 1,311,495; July 29; v. 264; p. 773.
- Camp, Ervin M., Denver, Colo. Collapsible hollow form for concrete construction-work. No. 1,320,199; Oct. 28; v. 267; p. 591.
- Camp, George W., Mount Vernon, N. Y., assignor to Ward Leonard Electric Company, Resistance unit. No. 1,320,200; Oct. 28; v. 267; p. 591.
- Camp, Orrin B., assignor of one-half to R. A. Lennon, Engelmene, Calif. Fulling-block for rock-drill bits. No. 1,312,233; Aug. 5; v. 265; p. 71.
- Campa y Menendez, Abelardo P., Habana, Cuba. Incombustible and waterproof product for use in constructions. No. 1,305,993; June 10; v. 263; p. 174.



## Alphabetical list of patentees—Continued.

- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Hopper-car. No. 1,314,045; Aug. 26; v. 265; p. 498.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door-operating mechanism. No. 1,317,775; Oct. 7; v. 267; p. 22.
- Campbell, Ben J., assignor to Keuffel & Esser Company, Hoboken, N. J. Compensating tape. No. 1,321,416; Nov. 11; v. 268; p. 264.
- Campbell, Benjamin H., Chicago, Ill. Harrow. No. 1,303,769; May 13; v. 262; p. 269.
- Campbell, Benjamin L., Portland, Oreg. Recorder's shield. No. 1,320,840; Nov. 4; v. 268; p. 90.
- Campbell Bosworth Machinery Company. (See Wilson, William, assignor.)
- Campbell Bros. Manufacturing Company, The. (See Fischer, Charles E., assignor.)
- Campbell, Bryde, New York, N. Y. Arch-support. No. 1,325,076; Dec. 16; v. 269; p. 456.
- Campbell, Charles, and A. H. Ford, Metropolis, Ill. Holder for can-opening machines. No. 1,296,621; Mar. 11; v. 260; p. 217.
- Campbell, Charles, and J. A. Cameron, Metropolis, Ill. Chimney-sweeper. No. 1,297,090; Mar. 11; v. 260; p. 324.
- Campbell, Charles H., assignor to Borden's Condensed Milk Company, New York, N. Y. Apparatus for producing dried milk. No. 1,292,577; Jan. 28; v. 258; p. 692.
- Campbell, Charles L. (See Meyers, Campbell, and McSweeney.)
- Campbell, Dayton D., Kansas City, Mo. Dental articulator. No. 1,301,817; Apr. 29; v. 261; p. 810.
- Campbell, Donald. (See Birdsall, James E., assignor.)
- Campbell, Donald E. (See Fish, George L., assignor.)
- Campbell, Donald J., Muskegon Heights, Mich. Mechanical sand-ramming machine. No. 1,321,283; Nov. 11; v. 268; p. 238.
- Campbell, Duncan R., Boston, Mass., assignor, by mesne assignments, to R. A. Linden, Flushing, N. Y. Branding-machine. No. 1,300,342; Apr. 15; v. 261; p. 442.
- Campbell, Duncan R., Boston, assignor to F. Rumrill, Newton, Mass. Trimming-machine for rubber articles. No. 1,308,479; July 1; v. 264; p. 86.
- Campbell, Edward B., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Cage-fastening. No. 1,290,906; Jan. 14; v. 258; p. 240.
- Campbell, Edward B., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Side-closing plate. No. 1,310,001; July 15; v. 264; p. 434.
- Campbell, Edward B., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Reducing-mill. No. 1,315,281; Sept. 9; v. 266; p. 158.
- Campbell, Edward B., assignor to The Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Grinder. No. 1,322,532; Nov. 25; v. 268; p. 576.
- Campbell, Emmett N., Moline, Ill. Stucco-tool. No. 1,297,541; Mar. 18; v. 260; p. 448.
- Campbell, Frank M., assignor to The Campbell Gas Generator Company, Chicago, Ill. Hydrocarbon heating apparatus. No. 1,295,116; Feb. 25; v. 259; p. 588.
- Campbell Gas Generator Company, The. (See Campbell, Frank M., assignor.)
- Campbell, Hardy W., Lincoln, Nebr. Cultivator. No. 1,299,676; Apr. 8; v. 261; p. 270.
- Campbell, Hardy W., Lincoln, Nebr. Check-line attachment. No. 1,315,703; Sept. 9; v. 266; p. 233.
- Campbell, Henry, Logan, Utah. Aeroplane. No. 1,308,857; July 1; v. 264; p. 119.
- Campbell, Henry F. (See Lichty and Campbell.)
- Campbell, James H., assignor to The Columbus Glass Company, Lancaster, Ohio. Method and apparatus for manufacturing window-glass cylinders. No. 1,312,305; Aug. 5; v. 265; p. 84.
- Campbell, James H., assignor to The Columbus Glass Company, Lancaster, Ohio. Horse for glass-cylinders. No. 1,312,306; Aug. 5; v. 265; p. 84.
- Campbell, James H., assignor to The Columbus Glass Company, Lancaster, Ohio. Apparatus and method employed in manufacturing of window-glass cylinders. No. 1,318,050; Oct. 7; v. 267; p. 74.
- Campbell, James R. (See Auld and Campbell.)
- Campbell, Jesse T., Elbridge, Tenn. Wrench. No. 1,310,056; July 15; v. 264; p. 443.
- Campbell, Jesse T., Elbridge, Tenn. Gun emplacement or fort. No. 1,314,466; Aug. 26; v. 265; p. 579.
- Campbell, John D., and W. H. Hoag, Sea Bright, N. J. Antirattler and locking device for blinds. No. 1,324,641; Dec. 9; v. 269; p. 313.
- Campbell, John D., and W. H. Hoag, Sea Bright, N. J. Antirattler for sashes. No. 1,324,642; Dec. 9; v. 269; p. 314.
- Campbell, John J., Brooklyn, N. Y. Welding-tool. No. 1,306,746; June 17; v. 263; p. 348.
- Campbell, John L., El Paso, Tex. Foundation and housing for railway or other signal apparatus. No. 1,325,829; Dec. 23; v. 269; p. 613.
- Campbell, John S., London, England. Vulcanizable composition of matter having comminuted leather as a base and preparing same. No. 1,302,463; Apr. 29; v. 261; p. 933.
- Campbell, Lawrence L., Pretty Rock, N. D. Cigar-container. No. 1,317,349; Sept. 30; v. 266; p. 640.
- Campbell, Lawrence S., Kansas City, Mo. Gas-generating oil-burner. No. 1,300,246; Apr. 15; v. 261; p. 421.
- Campbell, Patrick F. (See Pepler, Thomas, assignor.)
- Campbell, Paul, Newark, N. J. Advertising device. No. 1,325,979; Dec. 23; v. 269; p. 641.
- Campbell, Peter F., Vinal Haven, Me. Tobacco-pipe. No. 1,310,856; July 22; v. 264; p. 621.
- Campbell, Robert A., Minneapolis, Minn. Tire-stem cap. No. 1,309,795; July 15; v. 264; p. 396.
- Campbell, Robert E., Berkeley, Cal. Rotary valve. No. 1,295,429; Feb. 25; v. 259; p. 659.
- Campbell, Robert H., Chicago, Ill. Dispensing-container. No. 1,296,045; Mar. 4; v. 260; p. 53.
- Campbell, Solomon A., Newton, Mass. Timer. No. 1,293,328; Feb. 4; v. 259; p. 83.
- Campbell, Sterling H., St. Louis, Mo. Bracket for uncoupling rods. No. 1,297,440; Mar. 18; v. 260; p. 427.
- Campbell, Sterling H., St. Louis, Mo. Brake-rod jaw. No. 1,312,680; Aug. 12; v. 265; p. 187.
- Campbell, Sterling H., St. Louis, Mo. Journal-bearing wedge. No. 1,315,007; Sept. 2; v. 266; p. 98.
- Campbell, Sterling H., St. Louis, Mo. Uncoupling device. No. 1,319,694; Oct. 28; v. 267; p. 497.
- Campbell, Thurman A., Chicago, Ill. Stereopticon. No. 1,318,541; Oct. 14; v. 267; p. 229.
- Campbell, Walter E., et al. (See Bauer, Otto V., assignor.)
- Campbell, Walter T., St. Louis, Mo. Tire-lock. No. 1,326,180; Dec. 30; v. 269; p. 715.
- Campbell, William A., Bellefontaine, Ohio. Tubular hinge-grate. No. 1,311,551; July 29; v. 264; p. 784.
- Campbell, William L., Melissa, assignor of one-fourth to F. Bridgefarmer and one-fourth to J. E. Scribner, Melissa, Tex. Rotary engine. No. 1,322,162; Nov. 18; v. 268; p. 453.
- Campbell, William M., Jr., Baltimore, Md. Dog-controlling means. No. 1,308,332; July 1; v. 264; p. 59.
- Campbell, William O., Aetna, Ind. Boat-hull. No. 1,295,117; Feb. 25; v. 259; p. 588.
- Campbell, Wilson L., and T. G. Martin, Chicago, Ill., assignors, by mesne assignments, to Automatic Electric Company. Telephone system. No. 1,301,647; Apr. 22; v. 261; p. 745.
- Campbell, Wilson L., and T. G. Martin, Chicago, Ill., assignors, by mesne assignments, to Automatic Electric Company. Automatic and manual telephone-exchange system. No. 1,301,648; Apr. 22; v. 261; p. 745.
- Campbells and Hunter. (See Korte, Christian, assignor.)
- Campfield, George L., and V. F. Shutt, Colorado Springs, Colo. Air-pump. No. 1,315,089; Sept. 2; v. 266; p. 113.
- Campi, Lucas M., New York, N. Y. Automobile-tire. No. 1,326,181; Dec. 30; v. 269; p. 715.
- Campion, Patrick R., San Francisco, Calif. Auxiliary air-inlet device for internal-combustion motors. No. 1,301,649; Apr. 22; v. 261; p. 745.
- Campodonic, John J., Stockton, Calif. Transmission. No. 1,302,764; May 6; v. 262; p. 53.
- Camus, Edmond, R. Duchemin, and G. Criqueboeuf, Paris, France. Preparation of lead acetate. No. 1,297,792; Mar. 18; v. 260; p. 503.
- Canaday, Calvin L., Washington, D. C. Lung-exerciser. No. 1,295,118; Feb. 25; v. 259; p. 588.
- Canadian Explosives Limited. (See Godfrey, Edward, assignor.)
- Canadian Fish Hook Manufacturing Co., The. (See Evans, John S., assignor.)
- Canary, Earl, Myrtle, Idaho. Garden hoe and weeder. No. 1,294,614; Feb. 18; v. 259; p. 448.
- Canby, Thomas, Huddersfield, England. Machine for cropping or shearing cloth. (Reissue.) No. 14,642; May 6; v. 262; p. 142.
- Candee, Andrew H. (See Mardis and Candee.)
- Candee, Andrew H., Pittsburgh, and W. H. Johnston, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of control. No. 1,317,266; Sept. 30; v. 266; p. 624.
- Candee, William D. (See Rieger and Candee.)
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Power-transmission mechanism. No. 1,322,533; Nov. 25; v. 268; p. 576.
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Power-transmission mechanism and controlling means therefor. No. 1,322,534; Nov. 25; v. 268; p. 576.
- Candy, Albert M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,320,123; Oct. 28; v. 267; p. 578.
- Canepa, John V. (See Casalena, Primiano, assignor.)
- Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Overload device. No. 1,293,697; Feb. 11; v. 259; p. 198.
- Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electromagnetic device. No. 1,293,698; Feb. 11; v. 259; p. 199.
- Canfield, Harry R., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Motor-control system. No. 1,306,212; June 10; v. 263; p. 215.



- Canfield, Harry R., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Motor-control system. No. 1,308,927; July 8; v. 264; p. 197.
- Canfield, Jesse C., Elkins, W. Va., assignor of one-half to H. Musser, Akron, Ohio. Planter. No. 1,325,139; Dec. 16; v. 269; p. 468.
- Canfield Rubber Company. (See Rozene, Saul, assignor.)
- Canfield, William G., St. Louis, Mo. Fluid-pressure-operated jack. No. 1,297,091; Mar. 11; v. 260; p. 324.
- Canfield, Willie J., Escatawpa, Miss. Motorcycle. No. 1,321,978; Nov. 18; v. 268; p. 420.
- Cangan, Mark. (See Bendix and Forth, assignors.)
- Canivet, Gaston, Montreal, Quebec, Canada. Game. No. 1,294,873; Feb. 18; v. 259; p. 510.
- Canning, John E., Denver, Colo. Tooth-regulator. No. 1,292,702; Jan. 28; v. 258; p. 722.
- Cannon, Dominic F., Ford City, Pa., assignor to Pittsburgh Plate Glass Company. Making upright tuilles. No. 1,309,936; July 15; v. 264; p. 422.
- Cannon, Edson L., Cleveland Heights, assignor to The Warren Refining & Chemical Company, Cleveland, Ohio. Pump for receptacles. No. 1,317,483; Sept. 30; v. 266; p. 666.
- Cannon, Frederick I., Bedford, Ohio. Truck. No. 1,293,699; Feb. 11; v. 259; p. 199.
- Cannon, Frederick I., Bedford, Ohio. Pump. No. 1,316,558; Sept. 23; v. 266; p. 456.
- Cannon, George B., Jr., Brooklyn, N. Y. Umbrella. No. 1,316,421; Sept. 16; v. 266; p. 381.
- Cannon, John H., and J. M. Fream, Alexandria, La. Composition. No. 1,316,422; Sept. 16; v. 266; p. 382.
- Cannon, Joseph F., executor. (See Gardner, Lee.)
- Cannon, Louis S. (See Patterson and Cannon.)
- Cannon-Swenson Company. (See Kermer, Martin J., assignor.)
- Cannon, Vernon R., Sapulpa, Okla. Vise for holding vehicle-springs. No. 1,313,256; Aug. 19; v. 265; p. 316.
- Cannon, William W. (See Reustle and Cannon.)
- Cantin, Kenneth A., Honolulu, Hawaii. Portable flashlight. No. 1,313,516; Aug. 19; v. 265; p. 364.
- Canton, Adam W., Canton, Ohio. Wheel-guard. No. 1,325,690; Dec. 23; v. 269; p. 587.
- Canton, Adam W., Columbus, Ohio. Wheel-guard. No. 1,295,692; Feb. 25; v. 259; p. 721.
- Canton Stamping & Enameling Company, The. (See Bebb, Richard E., assignor.)
- Cantrall, Forrest L., Alturas, Calif. Oilier. No. 1,326,845; Dec. 30; v. 269; p. 840.
- Cantrall, Edwin B., and G. E. Miller, San Francisco, Cal. Oil-retainer. No. 1,291,397; Jan. 14; v. 258; p. 354.
- Cantrall, Edwin B., and G. E. Miller, San Francisco, Cal. Cap-puller. No. 1,291,638; Jan. 14; v. 258; p. 411.
- Cantrall, Edwin B. and G. E. Miller, San Francisco, Calif. Shim. No. 1,297,658; Mar. 18; v. 260; p. 473.
- Cantrall, Edwin B. and G. E. Miller, San Francisco, Calif. Wheel-puller. No. 1,310,154; July 15; v. 264; p. 461.
- Cantrall, Edwin B., and G. E. Miller, San Francisco, Calif. Roller-bearing remover. No. 1,310,155; July 15; v. 264; p. 461.
- Cantrelle, Oliver J. (See Hickey and Cantrelle.)
- Caouette, Marcal, Clinton, N. Y. Fire-escape. No. 1,308,480; July 1; v. 264; p. 86.
- Cap-Hold Inc. (See Kepler, Jesse S., assignor.)
- Capello, Frank, Schenectady, N. Y., assignor to General Electric Company. Fire-plug. No. 1,313,671; Aug. 19; v. 265; p. 393.
- Capes, Delbert R. (See Sebastian and Capes.)
- Capewell, George J., Hartford, Conn. Horse-nail. No. 1,324,795; Dec. 16; v. 269; p. 404.
- Capital City Printing Plate Company. (See Myers, Robert R., assignor.)
- Capito, Charles E., Los Angeles, Calif. Lamp-socket holder. No. 1,301,542; Apr. 22; v. 261; p. 726.
- Capitol Motors Corporation. (See Krafve, William, assignor.)
- Capizzi, Michael, Buffalo, N. Y. Leg-holder for shoe-polishing stands. No. 1,295,693; Feb. 25; v. 259; p. 721.
- Capman, Carl E., assignor to J. Saltzman, Chicago, Ill. Garment-pressing machine. No. 1,316,559; Sept. 23; v. 266; p. 456.
- Cappa, Stephen, Lead S. D. Kaleidoscope. No. 1,290,078; Jan. 7; v. 258; p. 15.
- Capparella, Thomas, New York, N. Y. Permutation electric switch. No. 1,310,605; July 22; v. 264; p. 575.
- Capps, Frank L. (See Lyle, Scully, and Capps.)
- Capps, Frank L., Brooklyn, assignor to Pathe Freres Phonograph Company, New York, N. Y. Electric-motor phonograph. No. 1,290,712; Jan. 7; v. 258; p. 169.
- Capps, Frank L., assignor to American Graphophone Company, Bridgeport, Conn. Talking-machine. No. 1,291,398; Jan. 14; v. 258; p. 254.
- Capps, Frank L., Brooklyn, assignor to Pathe Freres Phonograph Company, New York, N. Y. Stand for phonograph-record presses. No. 1,298,659; Apr. 1; v. 261; p. 9.
- Capps, Frank L., Brooklyn, assignor to Pathe Freres Phonograph Company, New York, N. Y. Adjustable sound-box. No. 1,324,643; Dec. 9; v. 269; p. 314.
- Capps, Joseph W., assignor of one-half to J. C. Farber, Pyron, Tex. Cultivator attachment. No. 1,293,329; Feb. 4; v. 259; p. 83.
- Capron, William C., et al. (See Junghanns, Ernest, assignor.)
- Caproni, Federico, Milan, Italy. Aeroplane. No. 1,302,508; May 6; v. 262; p. 6.
- Caproni, Federico, Milan, Italy. Flying-machine. No. 1,325,230; Dec. 16; v. 269; p. 485.
- Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Method of and article for making photographic positive prints. No. 1,303,635; May 13; v. 262; p. 244.
- Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing apparatus. No. 1,306,946; June 17; v. 263; p. 385.
- Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Color photography. No. 1,315,464; Sept. 9; v. 266; p. 191.
- Caracristi, Virginus Z., Bronxville, N. Y., and O. D. H. Bentley, West Roxbury, assignors to B. F. Sturtevant Company, Hyde Park, Mass. Governor mechanism. No. 1,310,738; July 22; v. 264; p. 599.
- Carbin Machine Corporation. (See Carling, Samuel H., assignor.)
- Carbo Hydrogen Company of America, The. (See Harris, John, assignor.)
- Carbó, José, Rosario de Santa Fe, Argentina. Corn harvesting and husking machine. No. 1,315,465; Sept. 9; v. 266; p. 191.
- Carbon Destroyer Corporation. (See Millard, William, assignor.)
- Carbonizing Engineering Company, The. (See Mebane, Charles P., assignor.)
- Carborundum Company, The. (See Clark, Bennett F., assignor.)
- Carborundum Company, The. (See Fitzpatrick and Stephens, assignors.)
- Carborundum Company, The. (See Hutchins, Otis, assignor.)
- Carborundum Company, The. (See Hutchins and Oliver, assignors.)
- Carborundum Company, The. (See Hutchins, Otis, assignor.)
- Carborundum Company, The. (See Martin, Harry C., assignor.)
- Carborundum Company, The. (See Power, Henry R., assignor.)
- Carborundum Company, The. (See Tone, Frank J., assignor.)
- Carborundum Company, The. (See Tone and Smith, assignors.)
- Carb, Paul P., Detroit, Mich. Shock-absorber for vehicles. No. 1,319,848; Oct. 28; v. 267; p. 527.
- Card, Arthur, Los Angeles, Calif. Pump. No. 1,326,024; Dec. 23; v. 269; p. 649.
- Carden, David A., Houston, Tex., assignor to National Oil & Equipment Corporation. Well-boring apparatus. No. 1,317,350; Sept. 30; v. 266; p. 640.
- Cardinell, John D., Montclair, N. J. Waterproof envelop. No. 1,323,578; Dec. 2; v. 269; p. 67.
- Cardone, Paolo, Brooklyn, N. Y. Automatic heat-alarm. No. 1,298,175; Mar. 25; v. 260; p. 609.
- Cardoso, Adelino, Milan, Italy. Elastic vehicle-wheel. No. 1,298,660; Apr. 1; v. 261; p. 9.
- Cardoza, Antone J. (See Creek, Allen B., assignor.)
- Cardoza, John B. N. (See McGinness and Cardoza.)
- Cardwell, Addison A., assignor to Pratt & Cady Co., Inc., New York, N. Y. Vacuum-trap. No. 1,316,876; Sept. 23; v. 266; p. 514.
- Cardwell, Allen D., Brooklyn, N. Y. Electrically-operating translator. No. 1,290,079; Jan. 7; v. 258; p. 16.
- Cardwell, Harland W., Oklahoma, Okla. Wrist-blotter. No. 1,293,652; Feb. 4; v. 259; p. 158.
- Cardy, Fred E., Chicago, Ill. Loose-leaf binder. No. 1,290,907; Jan. 14; v. 258; p. 241.
- Carey, James L. (See Murphy and Raney, assignors.)
- Carey, Robert F., Leigh-on-Sea, and A. A. Todd, deceased, London, England; A. B. Williams, executrix; assignors to Variable Pumps and Motors Limited, London, England. Pump, motor, or like apparatus. No. 1,325,434; Dec. 16; v. 269; p. 522.
- Carichoff, Eugene R., assignor to General Electric Company, Schenectady, N. Y. Control for electric motors. No. 1,311,754; July 29; v. 264; p. 821.
- Carideo, Erminio, et al. (See Evangelista, Domenico, assignor.)
- Carins, John H., La Salle, Ill. Gate. No. 1,292,248; Jan. 21; v. 258; p. 592.
- Carithers, James V., Pomeroy, Wash. Key-cutting attachment for lathes. No. 1,323,744; Dec. 2; v. 269; p. 97.
- Carl, Lee M. (See Clarke and Carl.)
- Carl, Victor F., Brookline, Mass. Soap-press and perforating-labeler. No. 1,326,573; Dec. 30; v. 269; p. 789.
- Carlberg, August, and G. Nyman, Tyko, Finland. Shaft and axle bearing. No. 1,321,417; Nov. 11; v. 268; p. 264.
- Carle, Martin, Clifton Forge, Va. Lubricator. No. 1,319,754. Oct. 28; v. 267; p. 509.
- Carlén, Bjarne, Nordstrand, near Christiania, Norway, assignor to Vacuum Muffler Corporation of America. Muffler. No. 1,323,675; Dec. 2; v. 269; p. 84.



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- Carleton, Laurence S. and R. G., Davenport, Iowa. Traffic signal device. No. 1,311,755; July 29; v. 264; p. 821.
- Carleton, Robert G. (See Carleton, Laurence S. and R. G.)
- Carleton Ruhe Company, The. (See O'Donnell, John W., assignor.)
- Carlier, Joseph, Lessines, Belgium. Device for measuring accelerations. No. 1,317,072; Sept. 23; v. 266; p. 551.
- Carlin, Arvid F., New York, N. Y. Shelf-support. No. 1,312,891; Aug. 12; v. 265; p. 228.
- Carlin, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Underwood Computing Machine Co. Calculating-machine. No. 1,311,041; July 22; v. 264; p. 655.
- Carlin, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Underwood Computing Machine Company. Calculating-machine. No. 1,312,018; Aug. 5; v. 265; p. 31.
- Carlin, Samuel E., Chicago, Ill., assignor, by mesne assignments, to Underwood Computing Machine Company. Calculating-machine. No. 1,313,517; Aug. 19; v. 265; p. 364.
- Carling, Rose S., Los Angeles, Calif. Pneumatic arch-support. No. 1,316,423; Sept. 16; v. 266; p. 382.
- Carling, Rose S., Camp Lewis, Wash. Arch-support. No. 1,325,830; Dec. 23; v. 269; p. 613.
- Carling, Samuel H., Easton, Pa., assignor to Carbin Machine Corporation, New York, N. Y. Warp-beam-holding mechanism for looms. No. 1,318,353; Oct. 14; v. 267; p. 193.
- Carling Turbine Blower Co. (See Carlson, Axel W., assignor.)
- Carling Turbine Blower Co. (See Teeling, George A., assignor.)
- Carlisle, Alfred C., Lakeside, Ohio. Combined hand-anvil and set-gage. No. 1,299,297; Apr. 1; v. 261; p. 155.
- Carlisle, Bert, Santa Ana, Calif. Spacing device for wrapping-paper rolls. No. 1,301,037; Apr. 15; v. 261; p. 590.
- Carlisle, Bert, Santa Ana, Calif. Automatic train-stop. No. 1,307,807; June 24; v. 263; p. 575.
- Carlisle, Bert, Santa Ana, Calif. Headlight-lens. No. 1,316,829; Sept. 23; v. 266; p. 506.
- Carlisle, Fred B. (See Morton, Frederic C., assignor.)
- Carlisle, Fred B., Providence, R. I., assignor to J. M. Gilbert, New York, N. Y. Tire-casing and making same. No. 1,294,330; Feb. 11; v. 259; p. 347.
- Carlisle, Fred B., North Kingston, R. I., assignor to J. M. Gilbert, New York, N. Y. Machine for making tire-casings. No. 1,296,762; Mar. 11; v. 260; p. 250.
- Carlisle, Fred E., White River Junction, Vt. Adjusting and securing device for closures. No. 1,304,454; May 20; v. 262; p. 436.
- Carl, Addison B., New York, N. Y. Rear-axle construction for automobile-trucks. No. 1,318,132; Oct. 7; v. 267; p. 90.
- Carlsen, Andrew M. (See Holland, Albert, assignor.)
- Carlsen, Eugene S., Chicago, Ill. Sprinkler. No. 1,290,080; Jan. 7; v. 258; p. 16.
- Carlson, Albert W. (See Nielsen, Christian, assignor.)
- Carlson, Alexander, New York, N. Y. Folding seat. No. 1,321,009; Nov. 4; v. 268; p. 123.
- Carlson, Alfred, Klamath Falls, Oreg. Gearing. No. 1,297,092; Mar. 11; v. 260; p. 324.
- Carlson, Amandus A., Barnesville, Minn. Bag-rack. No. 1,313,257; Aug. 19; v. 265; p. 316.
- Carlson, Andrew W., Spokane, Wash. Overalls. No. 1,293,700; Feb. 11; v. 259; p. 199.
- Carlson, Anna. (See Carlson, Theodore A., assignor.)
- Carlson, Axel W., assignor to Carling Turbine Blower Co., Worcester, Mass. Turbine-blower. No. 1,307,111; June 17; v. 263; p. 415.
- Carlson, Axel W., assignor to Carling Turbine Blower Co., Worcester, Mass. Method and means for making turbine-rotors. No. 1,311,109; July 22; v. 264; p. 668.
- Carlson, Carl A. (See Wright and Carlson.)
- Carlson, Carl V., Chatcolet, Idaho. Automatic feeding device for cream-separators. No. 1,301,818; Apr. 29; v. 261; p. 810.
- Carlson, Charles J., and A. W. Larson, Seattle, Wash. Animal-trap. No. 1,320,841; Nov. 4; v. 268; p. 91.
- Carlson, Charles R., Minneapolis, Minn. Indicator for medicine-bottles. No. 1,317,660; Sept. 30; v. 266; p. 700.
- Carlson, Ernst H., assignor of one-half to E. Ekman, Chicago, Ill. Wire-twisting tool. No. 1,324,583; Dec. 9; v. 269; p. 302.
- Carlson, George, New York, N. Y. Poultry-disinfecter. No. 1,303,851; May 20; v. 262; p. 322.
- Carlson, George B., Carver, Minn. Equalizing-bolster. No. 1,290,081; Jan. 7; v. 258; p. 16.
- Carlson, George H., assignor to Hoeschen Manufacturing Company, Omaha, Nebr. Toy machine-gun. No. 1,306,577; June 10; v. 263; p. 284.
- Carlson, Gust R., McIntosh, S. D. Draft attachment. No. 1,321,714; Nov. 11; v. 268; p. 320.
- Carlson, Gustaf A., assignor to The Boye Needle Company, Chicago, Ill. Curtain-rod. No. 1,315,704; Sept. 9; v. 266; p. 233.
- Carlson, Gustaf A., assignor to The Boye Needle Company, Chicago, Ill. Curtain-rod. No. 1,315,705; Sept. 9; v. 266; p. 233.
- Carlson, Gustaf A., assignor to The Boye Needle Company, Chicago, Ill. Curtain-rod. No. 1,315,706; Sept. 9; v. 266; p. 233.
- Carlson, Gustaf A., assignor to The Boye Needle Company, Chicago, Ill. Curtain-hanging device. No. 1,315,707; Sept. 9; v. 266; p. 233.
- Carlson, Gustave B., Topeka, Kans. Drawer-mounting. No. 1,311,042; July 22; v. 264; p. 655.
- Carlson, Hjalmar G., assignor to G. I. Rockwood, Worcester, Mass. Adapter for shells. No. 1,293,701; Feb. 11; v. 259; p. 199.
- Carlson, Hjalmar G., Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts. Metal-drawing. No. 1,295,430; Feb. 25; v. 259; p. 659.
- Carlson, Hjalmar G., Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts. Check-valve for automatic sprinkler systems. No. 1,310,606; July 22; v. 264; p. 575.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making booster-casings and adapters for gas-shells or the like. No. 1,312,517; Aug. 12; v. 265; p. 154.
- Carlson, Ivar, Leominster, and R. A. Johnson, Worcester, Mass., assignors to A. C. Messler, Pawtucket, R. I. Push-button switch. No. 1,290,082; Jan. 7; v. 258; p. 16.
- Carlson, Jewett R., West Salem, Wis. Insect trap and destroyer. No. 1,294,615; Feb. 18; v. 259; p. 449.
- Carlson, John, Jr., Portland, Me. Hose-bridge for railway-tracks. No. 1,302,632; May 6; v. 262; p. 28.
- Carlson, John E., Hartford, Conn. Cream-extractor. No. 1,308,928; July 8; v. 264; p. 197.
- Carlson, Joseph C., Detroit, Mich. Flycatcher. No. 1,324,727; Dec. 9; v. 269; p. 329.
- Carlson, Knut, Yonkers, N. Y. Whetstone-box. No. 1,294,616; Feb. 18; v. 259; p. 449.
- Carlson, Nels L., Bellevue, Wash. Instrument for locating ships' positions. No. 1,294,768; Feb. 18; v. 259; p. 485.
- Carlson, Oscar, Minneapolis, Minn. Toy pistol and projectile. No. 1,319,693; Oct. 28; v. 267; p. 497.
- Carlson, Oscar, assignor, by mesne assignments, of one-half to M. A. Clarke, Minneapolis, Minn. Cigar-box lid holder. No. 1,295,119; Feb. 25; v. 259; p. 588.
- Carlson, Oscar F., Chicago, Ill. Filler. No. 1,322,535; Nov. 25; v. 268; p. 576.
- Carlson, Oscar F. S., Ljungaværk, O. I. Carlson, Kornhamnstorg, and K. G. Boman, Ljungaværk, assignors to Aktiebolaget Nitrogenium, Stockholm, Sweden. Furnace for effecting reactions between one or more solid substances and one or more gaseous substances. No. 1,305,441; June 3; v. 263; p. 40.
- Carlson, Oscar I. (See Carlson and Boman.)
- Carlson, Oscar R., Chicago, Ill. Anchoring device. No. 1,317,073; Sept. 23; v. 266; p. 551.
- Carlson, Oscar W., Litchfield, Minn. Hame-fastener. No. 1,310,174; July 15; v. 264; p. 465.
- Carlson, Theodore. (See Johnson, John, assignor.)
- Carlson, Theodore A., assignor to A. Carlson, Muskegon, Mich. Engine. No. 1,312,234; Aug. 5; v. 265; p. 71.
- Carlson, Walter C., assignor to Milwaukee Paper Box Company, Milwaukee, Wis. Folding display-cabinet. No. 1,298,453; Mar. 25; v. 260; p. 668.
- Carlson, Wendell L., Jamestown, N. Y. Fuse-plug. No. 1,310,175; July 15; v. 264; p. 465.
- Carlson, Wendell L. and E. C. Hanson, Washington, D. C. Means for locating ore bodies by audio-frequency currents. No. 1,325,554; Dec. 23; v. 269; p. 562.
- Carlstedt, Ragnar, assignor to Aktiebolaget Arca Regulator, Stockholm, Sweden. Method of and apparatus for automatic control. No. 1,317,956; Oct. 7; v. 267; p. 56.
- Carlton, Anson E., Paterson, N. J. Hook. No. 1,299,424; Apr. 8; v. 261; p. 211.
- Carlton, Jack C. (See Cockburn and Carlton.)
- Carman, Edwin S., East Cleveland, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Mold-jarring mechanism. No. 1,315,180; Sept. 2; v. 266; p. 129.
- Carman, Herbert L., New York, N. Y. Self-filling fountain-pen. No. 1,304,739; May 27; v. 262; p. 528.
- Carman, James W., Seattle, Wash. Automobile-signal. No. 1,323,448; Dec. 2; v. 269; p. 42.
- Carmany, Charles A., Schaefferstown, Pa. Music-stand. No. 1,316,424; Sept. 16; v. 266; p. 382.
- Carmean, James H. and S. M., Kansas City, Mo. Electric heater. No. 1,313,258; Aug. 19; v. 265; p. 316.
- Carmean, Samuel M. (See Carmean, Samuel M. and J. H.)
- Carmichael, Hugh A., West Lorne, Ontario, Canada. Gearing for tractors. No. 1,318,843; Oct. 14; v. 267; p. 287.
- Carmichael, James, Chicago, Ill. Pouring-spout for cans. No. 1,299,913; Apr. 8; v. 261; p. 323.
- Carmichael, Robert E., Damon, Tex. Rotary boring-drill. No. 1,295,969; Mar. 4; v. 260; p. 34.
- Carmichael, Robert E., Damon, assignor of one-half to G. Hamman, Houston, Tex. Means for reducing wear in the working barrels of pumps. No. 1,295,848; Mar. 4; v. 260; p. 6.



- Carmichael, Robert E., Damon, assignor of one-half to G. Hamman, Houston, Tex. Apparatus for sulphur-mining. No. 1,308,929; July 8; v. 264; p. 197.
- Carmichael, Robert E., Damon, assignor of one-half to G. Hamman, Houston, Tex. Apparatus for sulfur-mining. No. 1,324,301; Dec. 9; v. 269; p. 248.
- Carmichael, Robert E., Damon, assignor of one-half to G. Hamman, Houston, Tex. Pipe-wrench. No. 1,324,302; Dec. 9; v. 269; p. 248.
- Carmichael, Robert E., Damon, assignor of one-half to G. Hamman, Houston, Tex. Pipe-cutter. No. 1,324,303; Dec. 9; v. 269; p. 248.
- Carmichael, Robert E., Damon, assignor of one-half to G. Hamman, Houston, Tex. Sample-taking device. No. 1,324,304; Dec. 9; v. 269; p. 248.
- Carmichael, Robert E., Damon, assignor of one-half to G. Hamman, Houston, Tex. Pump. No. 1,325,077; Dec. 16; v. 269; p. 456.
- Carmichael, William H., Miami, Fla. Tabulator for automobiles. No. 1,309,841; July 15; v. 264; p. 404.
- Carmichael, Daniel F., Minneapolis, Minn. Combination-lock. No. 1,292,249; Jan. 21; v. 258; p. 592.
- Carnegis, Peter, Washington, D. C. Boat-propelling mechanism. No. 1,318,844; Oct. 14; v. 267; p. 287.
- Carney, Daniel J. (See Kline, John C., assignor.)
- Carney, Fred J. (See Walwright and Carney.)
- Carney, James J., Haverhill, Mass. Lubricating apparatus. No. 1,291,399; Jan. 14; v. 258; p. 355.
- Carnotite Reduction Company. (See McCoy, Herbert N., assignor.)
- Carolina Motor Company. (See Beaty, Ernest L., assignor.)
- Carols, William B., Sterling, Ill. Bolt and nut cutter. No. 1,296,265; Mar. 4; v. 260; p. 102.
- Caron, Martinus H., Weltevreden, Java, Dutch East Indies, assignor to Research Corporation, New York, N. Y. Extracting silver from ore. No. 1,298,454; Mar. 25; v. 260; p. 669.
- Caron, Samuel, Chicago, Ill. Adjustable vehicle-body. No. 1,320,601; Nov. 4; v. 268; p. 46.
- Carothers, Robert M., Schenectady, N. Y., assignor to General Electric Company. Voltage-regulating system. No. 1,290,908; Jan. 14; v. 258; p. 241.
- Carpenter, Alexander, assignor to National Tractor and Plow Company, Carey, Ohio. Gang-plow. No. 1,308,744; July 1; v. 264; p. 135.
- Carpenter, Alvin M., assignor of one-half to W. R. Chapin, Indianapolis, Ind. Explosive-engine. No. 1,318,354; Oct. 14; v. 267; p. 193.
- Carpenter, Amos M., Kalamazoo, Mich. Wall structure. No. 1,299,425; Apr. 8; v. 261; p. 211.
- Carpenter, Byron L., Newton, Iowa. Concrete silo-chute. No. 1,321,797; Nov. 11; v. 268; p. 335.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Welding-electrode. No. 1,324,227; Dec. 9; v. 269; p. 233.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery separator. No. 1,324,954; Dec. 16; v. 269; p. 433.
- Carpenter, Campbell C., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Battery-plate envelop. No. 1,325,710; Dec. 23; v. 269; p. 591.
- Carpenter, Daniel A., New York, N. Y. Buckle. No. 1,306,403; June 10; v. 263; p. 253.
- Carpenter, David E., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor-rectifier. No. 1,296,264; Mar. 4; v. 260; p. 102.
- Carpenter, David E., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rectifier system. No. 1,321,886; Nov. 18; v. 268; p. 403.
- Carpenter, Edward P., Elmira Heights, and J. L. Carpenter, Potsdam, N. Y. Folding crate. No. 1,306,136; June 10; v. 263; p. 200.
- Carpenter, Edward W., assignor to E. W. Carpenter Manufacturing Company, Bridgeport, Conn. Jar-opener. No. 1,324,494; Dec. 9; v. 269; p. 285.
- Carpenter, Edwin E., Wonder, Nev. Combined screen and elevator. No. 1,318,264; Oct. 7; v. 267; p. 116.
- Carpenter, Eugene, Oak Bluffs, Mass. Surgical instrument. No. 1,314,855; Sept. 2; v. 266; p. 71.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Method of and apparatus for producing ammonium sulfate. No. 1,322,757; Nov. 25; v. 268; p. 618.
- Carpenter, Henry A., Sewickley, assignor to Riter-Conley Manufacturing Company, Leetsdale, Pa. Method of and apparatus for producing ammonium sulfate. No. 1,322,758; Nov. 25; v. 268; p. 618.
- Carpenter, Henry A., and A. W. Warner, Sewickley, assignors to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Apparatus for charging gas-producers. No. 1,322,877; Nov. 25; v. 268; p. 640.
- Carpenter, Howard H., Altadena, Calif. Refrigeration apparatus. No. 1,315,282; Sept. 9; v. 266; p. 158.
- Carpenter, John L. (See Carpenter, Edward P. and J. L.)
- Carpenter, Paul. (See Barbieri and Carpenter.)
- Carpenter, Paul, Glenview, Ill. Baking-pan. No. 1,304,740; May 27; v. 262; p. 528.
- Carpenter, Ralph G., Chicago, Ill. Illuminated sign. No. 1,310,688; July 22; v. 264; p. 590.
- Carpenter, Ralph G., assignor to himself and O. Cederquist, Chicago, Ill. Sign mechanism. No. 1,310,689; July 22; v. 264; p. 590.
- Carpenter, Stephen, South Gibson, Pa. Spring-wheel. No. 1,302,306; Apr. 29; v. 261; p. 902.
- Carpenter, Warren W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Registering and controlling equipment. No. 1,322,759; Nov. 25; v. 268; p. 618.
- Carpenter, William J. (See Eaton, Reason B., assignor.)
- Carpentier, Georges J. N., Washington, D. C. Torpedo. No. 1,290,829; Jan. 7; v. 258; p. 196.
- Carpentier, Georges J. N., Washington, D. C., assignor to the Government of the United States. Instrument for recording the path of aeroplanes. No. 1,296,477; Mar. 4; v. 260; p. 147.
- Carper, Albert A., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Bottle-capping machine. No. 1,299,820; Apr. 8; v. 261; p. 302.
- Carper, Emmett P., and L. S. Patterson, Fordwick, Va. Toy. No. 1,303,461; May 13; v. 262; p. 212.
- Carpmael, Richard H., and J. C. Sotham, assignors to The Coventry Ordnance Works, Limited, Coventry, England. Apparatus for automatically setting tools or facilitating the setting of the same. No. 1,305,878; June 3; v. 263; p. 122.
- Carpmill, John F., and H. G. Hancock, assignors to The North & Judd Manufacturing Company, New Britain, Conn. Hook. No. 1,299,821; Apr. 8; v. 261; p. 303.
- Carr, Almon F., and H. F. Schoene, assignors of one-third to C. F. Gottschalk, Chicago, Ill. Automobile direction-indicator. No. 1,325,831; Dec. 23; v. 269; p. 613.
- Carr, Alva W., Groveport, Ohio. Hammer and wrench. No. 1,309,180; July 8; v. 264; p. 244.
- Carr, Charles B., New York, N. Y. Eye-wiper. No. 1,305,442; June 3; v. 263; p. 40.
- Carr, Daniel J., Long Beach, Calif. Submarine life-boat. No. 1,309,563; July 8; v. 264; p. 315.
- Carr, Edward G., Milwaukee, Wis., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Material-transferring apparatus. No. 1,295,849; Mar. 4; v. 260; p. 7.
- Carr, Edward G., Milwaukee, Wis., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Road-form. No. 1,295,850; Mar. 4; v. 260; p. 7.
- Carr, Edward G., Milwaukee, Wis., assignor to The Lakewood Engineering Company, Cleveland, Ohio. Joint-tie. No. 1,324,228; Dec. 9; v. 269; p. 233.
- Carr Fastener Co. (See Stickler, Frank B., assignor.)
- Carr Fastener Company. (See Bulley, Louis T., assignor.) (Reissue.)
- Carr Fastener Company. (See Carr, Fred S., assignor.)
- Carr Fastener Company. (See Carr, Moses F., assignor.)
- Carr Fastener Company, assignee. (See Neider, Fred A.) (Reissue.)
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,571; Apr. 15; v. 261; p. 491.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,572; Apr. 15; v. 261; p. 492.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,300,573; Apr. 15; v. 261; p. 492.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,300,574; Apr. 15; v. 261; p. 492.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,300,575; Apr. 15; v. 261; p. 492.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,576; Apr. 15; v. 261; p. 492.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,577; Apr. 15; v. 261; p. 492.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastening mechanism. No. 1,300,578; Apr. 15; v. 261; p. 493.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,579; Apr. 15; v. 261; p. 493.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,580; Apr. 15; v. 261; p. 493.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable cuff-link. No. 1,317,267; Sept. 30; v. 266; p. 624.
- Carr, Fred S., assignor to Carr Fastener Company, Cambridge, Mass. Turn-button fastener. No. 1,303,770; May 13; v. 262; p. 269.
- Carr, George E., Boston, Mass. Belt. No. 1,303,027; May 6; v. 262; p. 104.
- Carr, John H., Alhambra, Cal. Cement-pipe machine. No. 1,292,256; Jan. 21; v. 258; p. 592.
- Carr, John H., Alhambra, Cal. Concrete-pipe machine. No. 1,309,878; July 15; v. 264; p. 411.
- Carr, Julian S., Jr. (See Adamec, Jacob H., assignor.)
- Carr-Lowrey Glass Co. (See Kammer, August F., assignor.)



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- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,581; Apr. 15; v. 261; p. 493.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,582; Apr. 15; v. 261; p. 493.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,583; Apr. 15; v. 261; p. 493.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,584; Apr. 15; v. 261; p. 493.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,585; Apr. 15; v. 261; p. 494.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,586; Apr. 15; v. 261; p. 494.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,587; Apr. 15; v. 261; p. 494.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,300,588; Apr. 15; v. 261; p. 494.
- Carr, Oma, Asheville, N. C. Method of and apparatus for evaporating liquids. No. 1,321,362; Nov. 11; v. 268; p. 253.
- Carr, Oma, New York, N. Y., assignor of one-half to E. W. Deming, New Orleans, La. Method of and apparatus for evaporating liquids. No. 1,312,019; Aug. 5; v. 265; p. 31.
- Carr, William C., Buffalo, N. Y. Vehicle-brake. No. 1,297,093; Mar. 11; v. 260; p. 324.
- Carr, William C., Buffalo, N. Y. Change-speed mechanism. No. 1,297,094; Mar. 11; v. 260; p. 325.
- Carr, William C., Buffalo, N. Y. Steering apparatus for motor-trucks. No. 1,297,095; Mar. 11; v. 260; p. 325.
- Carr, William C., Buffalo, N. Y. Motor-control apparatus. No. 1,322,536; Nov. 25; v. 268; p. 576.
- Carr, William E., Seattle, assignor to Police Traffic Signal Company, Ltd., King county, Wash. Street-crossing signal. No. 1,308,658; July 1; v. 264; p. 119.
- Carrau, Mario, Montevideo, Uruguay. Ship-convoy submarine defense. No. 1,305,877; June 3; v. 263; p. 122.
- Carreira, João G., Lisbon, Portugal. Ambulance and material-transportation vehicle. No. 1,292,251; Jan. 21; v. 258; p. 592.
- Carrel, Arthur D. (See Mills and Carrel.)
- Carrico, James W., Rumsey, Alberta, Canada. Cup. No. 1,324,305; Dec. 9; v. 269; p. 248.
- Carrie Gyroscopic Corporation, The. (See Beattie, John E., assignor.)
- Carrie Gyroscopic Corporation, The. (See Rossiter, George A., assignor.)
- Carrie, L. (See Therien, Joseph H., assignor.)
- Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Casement-window attachment. No. 1,300,926; Apr. 15; v. 261; p. 566.
- Carrier, Albert H., assignor of one-half to E. W. Grove, Asheville, N. C. Casement. No. 1,302,765; May 6; v. 262; p. 53.
- Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Combined surface breaker and cultivator. No. 1,311,212; July 29; v. 264; p. 720.
- Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Window-shade mounting. No. 1,313,672; Aug. 19; v. 265; p. 393.
- Carrier, Augustus, assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Holder for dental brochures or the like. No. 1,292,252; Jan. 21; v. 258; p. 593.
- Carrier Engineering Corporation. (See Stacey, Alfred E., Jr., assignor.)
- Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Humidity and temperature regulator and device. No. 1,308,930; July 8; v. 264; p. 197.
- Carrier, Willis H., assignor to Buffalo Forge Company, Buffalo, N. Y. Nozzle-flushing mechanism for air and gas washers and the like. No. 1,312,721; Aug. 12; v. 265; p. 194.
- Carrm, Bazel E., St. Louis, Mo., assignor to American Motors, Inc., New York, N. Y. Automobile-body. No. 1,299,426; Apr. 8; v. 261; p. 212.
- Carroll, Aaron T., assignor of one-half to Thomas F. Foley, Scranton, Pa. Adjustable toe-cap. No. 1,317,427; Sept. 30; v. 266; p. 655.
- Carroll, Charles, New Orleans, La. Automobile safety-crank. No. 1,290,507; Jan. 7; v. 258; p. 119.
- Carroll, Cornelius P., Columbia, La. Display-stand. No. 1,299,677; Apr. 8; v. 261; p. 270.
- Carroll, Edward W., Weston, W. Va. Safety attachment for cigar-cutters. No. 1,313,467; Aug. 19; v. 265; p. 355.
- Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Clutch. No. 1,290,713; Jan. 7; v. 258; p. 170.
- Carroll, Fred M. (See Braselton and Carroll.)
- Carroll, John D., West Lafayette, assignor to Turbo Rotary Engine Co., Evansville, Ind. Rotary engine. No. 1,320,531; Nov. 4; v. 268; p. 33.
- Carroll, John E., Philadelphia, Pa. Power-utilizing apparatus. No. 1,319,323; Oct. 21; v. 267; p. 404.
- Carroll, John S., Yonkers, N. Y., assignor to H. W. Johns-Manville Co., New York, N. Y. Insulating-covering. No. 1,317,957; Oct. 7; v. 267; p. 56.
- Carroll, Joseph, Brooklyn, N. Y. Ash-sifter. No. 1,293,330; Feb. 4; v. 259; p. 83.
- Carroll, Joseph R., Norfolk, Conn. Card-index. No. 1,296,919; Mar. 11; v. 260; p. 286.
- Carroll, Louis W., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,324,796; Dec. 16; v. 269; p. 405.
- Carroll, Peter E. (See Horn, Emil, assignor.)
- Carroll, Richard M., Coogee, near Sydney, New South Wales, Australia. Pipe and nut wrench. No. 1,302,009; Apr. 29; v. 261; p. 847.
- Carroll, Thomas, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,302,509; May 6; v. 262; p. 6.
- Carroll, Thomas, and J. C. Lockyer, assignors to The National Cash Register Company, Dayton, Ohio. Perforating mechanism for cash-registers. No. 1,320,673; Nov. 4; v. 268; p. 58.
- Carruth, Robert J., and P. E. Pendley, Atlanta, Ga. Automobile attachment. No. 1,326,439; Dec. 30; v. 269; p. 763.
- Carruthers, John E., assignor of one-half to W. A. Paul, Auburn, Me. Building-elevator. No. 1,299,124; Apr. 1; v. 261; p. 116.
- Carruthers, Walter B., Toronto, Ontario, Canada. Button-fastener. No. 1,297,321; Mar. 18; v. 260; p. 403.
- Carse, David B., Sharon, Conn., assignor to Superior Sign Company, New York, N. Y. Reflecting-sign. No. 1,316,475; Sept. 16; v. 266; p. 391.
- Carse, David B., Sharon, Conn., assignor to Superior Sign Company, New York, N. Y. Illuminated sign. No. 1,316,476; Sept. 16; v. 266; p. 392.
- Carse, James, Bedington, England. Free-wheel mechanism for cycles and the like. No. 1,313,067; Aug. 12; v. 265; p. 263.
- Carson, Clarence, New Rochelle, N. Y. Adjustable instrument-board for motor-cars. No. 1,325,140; Dec. 16; v. 269; p. 468.
- Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Combined tachometer and revolution-counter. No. 1,297,793; Mar. 18; v. 260; p. 503.
- Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Combined speedometer and odometer. No. 1,319,203; Oct. 21; v. 267; p. 381.
- Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Speedometer. No. 1,319,204; Oct. 21; v. 267; p. 382.
- Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Odometer. No. 1,319,205; Oct. 21; v. 267; p. 382.
- Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Trip-reset for flush mountings. No. 1,323,449; Dec. 2; v. 269; p. 42.
- Carson, Clark, Davenport, Iowa. Grease-cup. No. 1,326,389; Dec. 30; v. 269; p. 754.
- Carson Company, The. (See Walker, Sheridan A., assignor.)
- Carson, Geary E., Albany, N. Y. Window-fastener. No. 1,307,112; June 17; v. 263; p. 415.
- Carson, George C., San Francisco, Calif. Construction of the roof of open-hearth and reverberatory furnaces. No. 1,302,307; Apr. 29; v. 261; p. 902.
- Carson, Harry V., Silverton, Oreg. Sign-painting apparatus. No. 1,295,270; Feb. 25; v. 259; p. 623.
- Carson, Hugh J., Fairfax, Minn. Portable elevator. No. 1,294,397; Feb. 18; v. 259; p. 398.
- Carson, Hugh J., Fairfax, Minn., assignor to J. Locke, Pontiac, Ill. Portable elevator. (Reissue.) No. 14,622; Apr. 1; v. 261; p. 180.
- Carson, John R. (See Mills and Carson.)
- Carson, John R., New York, N. Y., assignor to American Telephone and Telegraph Company. Wireless signaling system. No. 1,309,459; July 8; v. 264; p. 296.
- Carson, John R., New York, N. Y., assignor to American Telephone and Telegraph Company. Translating-circuits. No. 1,312,433; Aug. 5; v. 265; p. 109.
- Carson, John R., New York, N. Y., assignor to American Telephone and Telegraph Company. Distortion-correcting circuit. No. 1,315,539; Sept. 9; v. 266; p. 204.
- Carson, Oswald B., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,301,101; Apr. 22; v. 261; p. 640.
- Carson, Oswald B., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,306,521; June 10; v. 263; p. 274.
- Carson, Victor V., Tacoma, Wash. Aeroplane. No. 1,300,927; Apr. 15; v. 261; p. 560.
- Carswell, James A., Augusta, Ga. Bicycle-coupling. No. 1,300,343; Apr. 15; v. 261; p. 442.
- Carswell, Joseph S., and A. R. Hammond, Boone, Iowa. Motor-block stand. No. 1,326,147; Dec. 23; v. 269; p. 671.
- Carter, Adrian E. (See Renold and Carter.)



- Carter, Ainslie T., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Protective device for electric interlocking systems. No. 1,313,879; Aug. 26; v. 265; p. 466.
- Carter, Albert S., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Pruning-saw. No. 1,310,904; July 22; v. 264; p. 630.
- Carter, Alfred E., Providence, R. I., assignor to Pratt & Whitney Company, New York, N. Y. Cutting-tool. No. 1,299,125; Apr. 1; v. 261; p. 116.
- Carter, Arthur B., Brattleboro, Vt. Film-reel and casing therefor. No. 1,304,021; May 20; v. 262; p. 353.
- Carter, Arthur R., Hammond, La. Motor-vehicle. No. 1,293,702; Feb. 11; v. 259; p. 199.
- Carter, Bowling C., Pittsburgh, Pa. Safety-rack for window-washers. No. 1,318,479; Oct. 14; v. 267; p. 217.
- Carter Carburetor Company, The. (See Bicknell and Weed, assignors.)
- Carter, Charles A., Lynn, Mass. Valve. No. 1,325,189; Dec. 16; v. 269; p. 477.
- Carter, Charles D., New York, N. Y. Combined coal and gas stove. No. 1,315,008; Sept. 2; v. 266; p. 98.
- Carter, Charles H., Brooklyn, assignor to M. M. Sterling, New York, N. Y. Display apparatus. No. 1,297,542; Mar. 18; v. 260; p. 448.
- Carter, David S., assignor to Larned, Carter & Company, Detroit, Mich. Overall-pocket. No. 1,299,552; Apr. 8; v. 261; p. 241.
- Carter, Evershed. (See Carter, Frank and E.)
- Carter, Evershed. (See Carter and Watts.)
- Carter, Frank and E., assignors of one-third to G. M. Blackstone, Stamford, England. Means for starting and reversing internal-combustion engines. No. 1,298,455; Mar. 25; v. 260; p. 669.
- Carter, Frank and E., and R. E. Watts, assignors of one-fourth to G. M. Blackstone, Stamford, England. Differential steering-gear for motor-vehicles. No. 1,300,118. Apr. 8; v. 261; p. 368.
- Carter, Frank B., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker. No. 1,316,684; Sept. 23; v. 266; p. 480.
- Carter, Frank E., Huntington, W. Va. Toy gun. No. 1,311,756; July 29; v. 264; p. 821.
- Carter, George J., Bromborough, England. Internal-combustion engine. No. 1,305,193; May 27; v. 262; p. 613.
- Carter, George L., near Dayton, Ohio. Paper-rolling machine. No. 1,309,393; July 8; v. 264; p. 284.
- Carter, George R., Oklahoma, Okla. Lifting-trap. No. 1,303,636; May 13; v. 262; p. 244.
- Carter, George T., Elizabeth, N. J., assignor of one-half to F. L. Kraemer, Port Washington, N. Y. Rotary engine. No. 1,303,255; May 13; v. 262; p. 176.
- Carter, James A. (See Brown and Carter.)
- Carter, James H., Chicago, Ill. Flat for egg-cases. No. 1,293,331; Feb. 4; v. 259; p. 83.
- Carter, James R. (See Cherry and Carter.)
- Carter, Jesse N., Americus, Ga. Pulverizer. No. 1,301,884; Apr. 22; v. 261; p. 697.
- Carter, Lillie M., assignor of one-half to J. R. Eaton, Minneapolis, Minn. One-piece garment for children. No. 1,292,703; Jan. 28; v. 258; p. 722.
- Carter, Lionel A., St. Louis, Mo. Quick-change mechanism. No. 1,296,161; Mar. 4; v. 260; p. 80.
- Carter, Percy H., Savannah, Ga. Producing fertilizer materials and the products obtained therefrom. No. 1,293,029; Feb. 4; v. 259; p. 13.
- Carter, Ray L., Syracuse, N. Y. Centering-gage. No. 1,302,131; Apr. 29; v. 261; p. 869.
- Carter, Ray M., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Purifying iodine. No. 1,324,761; Dec. 9; v. 269; p. 336.
- Carter, Russell S., Hewlett, N. Y. Shock-absorber. No. 1,318,051; Oct. 7; v. 267; p. 74.
- Carter, Russell S., Hewlett, N. Y. Shock-absorber. No. 1,318,052; Oct. 7; v. 267; p. 75.
- Carter, Samuel C. (See Palmer and Carter.)
- Carter, Thomas, Belton, S. C. Picker-stick check. No. 1,295,431; Feb. 25; v. 259; p. 660.
- Carter, Thomas, Belton, S. C. Bad or thin place detector. No. 1,325,350; Dec. 16; v. 269; p. 507.
- Carter, Thomas, Belton, S. C., assignor to Draper Corporation, Hopedale, Mass. Filling-end controller for looms. No. 1,293,030; Feb. 4; v. 259; p. 14.
- Carter, William, Louisville, Ky. Fishing-reel. No. 1,321,284; Nov. 11; v. 268; p. 238.
- Carter, William P., Nashville, Tenn. Self-siphoning bottle-filling machine. No. 1,324,644; Dec. 9; v. 269; p. 314.
- Cartier, Napoleon J., New Haven, Conn. Tool-wedge. No. 1,293,332; Feb. 4; v. 259; p. 83.
- Cartisser, Louis J., Bayonne, N. J. Pulley clothes-line. No. 1,294,617; Feb. 18; v. 259; p. 449.
- Carton, Albert F., Pipestone, Minn. Seed-corn drier. No. 1,293,333; Feb. 4; v. 259; p. 83.
- Cartre, Clyde L., Aurora, Ill. Milk-bottle holder. No. 1,295,120; Feb. 25; v. 259; p. 588.
- Cartun, Jacob, Philadelphia, Pa. Indicator. No. 1,295,121; Feb. 25; v. 259; p. 589.
- Cartus, Nicholas, Wilkinsburg, Pa. Flying-machine. No. 1,324,996; Dec. 16; v. 260; p. 440.
- Cartwright, David J., Easton, Pa., assignor, by mesne assignments, to Liberty Ordnance Corporation, New York, N. Y. Percussion-fuse for shells. No. 1,311,678; July 29; v. 264; p. 807.
- Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Settling and separating tank. No. 1,311,639; July 29; v. 264; p. 799.
- Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Grapple. No. 1,322,537; Nov. 25; v. 268; p. 577.
- Cartwright, George W., Sacramento, Calif. Compensating steering-gear for road-planers. No. 1,300,697; Apr. 15; v. 261; p. 517.
- Cartwright, George W., Sacramento, Calif. Road and street planer. No. 1,304,741; May 27; v. 262; p. 528.
- Cartwright, Hugh F., St. Louis, Mo. Supporting-frame for motor-trucks. No. 1,306,685; June 17; v. 263; p. 338.
- Cary, Burton W. (See Hooper, Edward J., assignor.) (Reissue.)
- Cary, Charles R. (See Smith and Cary.)
- Cary, Egbert S., Philadelphia, Pa. Metering device. No. 1,310,739; July 22; v. 264; p. 599.
- Cary Manufacturing Co. (See Cary and Brand, assignors.)
- Cary Manufacturing Company. (See Cary, Spencer C., assignor.)
- Cary, Spencer C., Brooklyn, N. Y. Shipping-case. No. 1,325,555; Dec. 23; v. 269; p. 562.
- Cary, Spencer C., assignor to Cary Manufacturing Company, Brooklyn, N. Y. Means for joining metal package-binders. No. 1,301,102; Apr. 22; v. 261; p. 640.
- Cary, Spencer C., assignor to Cary Manufacturing Company, Brooklyn, N. Y. Method and means for sealing packages. No. 1,309,115; July 8; v. 264; p. 233.
- Cary, Spencer C., and H. H. Brand, assignors to Cary Manufacturing Co., Brooklyn, N. Y. Corrugated fastener. No. 1,295,268; Feb. 25; v. 259; p. 622.
- Cary, William F., Chicago, Ill. Safety-razor. No. 1,298,456; Mar. 25; v. 260; p. 669.
- Casabiancas, Fernando, Sabadell, Spain. Spinning-frame. No. 1,297,794; Mar. 18; v. 260; p. 503.
- Casabiancas, Fernando, Sabadell, Barcelona, Spain. Spinning-frame. No. 1,313,164; Aug. 12; v. 265; p. 282.
- Casaday, James O., South Bend, Ind. Automatic-release draft-coupling. No. 1,298,004; Mar. 25; v. 260; p. 574.
- Casalas, Giacomo. (See Pavia and Casalis.)
- Casale, Vincent M., Brooklyn, N. Y. Safety-gate for railway-platforms. No. 1,326,574; Dec. 30; v. 269; p. 790.
- Casalena, Primiano, assignor of one-half to J. V. Canepa, Chicago, Ill. Macaroni-drier. No. 1,310,176; July 15; v. 264; p. 465.
- Cascia, Angelo, New York, N. Y. Mouthpiece for cigars. No. 1,315,209; Sept. 9; v. 266; p. 145.
- Case, Arthur E. (See Henderson and Case.)
- Case, Arthur E., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Car-haulage system for movable car-dumpers. No. 1,322,538; Nov. 25; v. 268; p. 577.
- Case, Arthur L., Plainfield, N. J. Tire-casing and manufacture. No. 1,298,661; Apr. 1; v. 261; p. 9.
- Case, Edward N., San Diego, Calif. Fuel-regulating means for explosion-engines. No. 1,300,344; Apr. 15; v. 261; p. 442.
- Case, Egerton R. (See Lenfestey, Gerald T., assignor.)
- Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Power-generating system. No. 1,313,673; Aug. 19; v. 265; p. 393.
- Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Pneumatically-operated controller. No. 1,326,025; Dec. 23; v. 269; p. 649.
- Case, Galusha L., San Diego, Calif. Truck-loading attachment. No. 1,315,814; Sept. 9; v. 266; p. 253.
- Case, George D., Horseheads, N. Y. Sectional concrete conduit. No. 1,320,313; Oct. 28; v. 267; p. 613.
- Case, Henry J., Poughkeepsie, N. Y., assignor to Moline Plow Company. Elevator attachment for grain binders. No. 1,305,879; June 3; v. 263; p. 123.
- Case, Henry J., Poughkeepsie, N. Y., assignor to Moline Plow Company. Conveying mechanism. No. 1,305,880; June 3; v. 263; p. 123.
- Case, Henry M., Cincinnati, Ohio, assignor to D. C. Linnemann, Covington, Ky. Window-ventilator. No. 1,299,126; Apr. 1; v. 261; p. 116.
- Case, Jesse A., assignor of one-third to E. F. Copeland, Brockton, Mass. Wooden-bottomed shoe. No. 1,308,395; July 1; v. 264; p. 71.
- Case, John L., Sunnyside, Wash. Power-belt. No. 1,300,345; Apr. 15; v. 261; p. 442.
- Case, Lowell, Herkimer, N. Y. Shooting-gallery. No. 1,294,618; Feb. 18; v. 259; p. 449.
- Case, Theodore W., Scipio, N. Y. Variable resistance. No. 1,298,457; Mar. 25; v. 260; p. 669.
- Case, Theodore W., Scipio, N. Y. Resistance element. No. 1,298,627; Mar. 25; v. 260; p. 705.
- Case, Theodore W., Scipio, N. Y. Variable resistance. No. 1,301,227; Apr. 22; v. 261; p. 686.
- Case, Theodore W., Scipio, N. Y. Variable resistance. No. 1,300,181; July 8; v. 264; p. 244.



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- Case, Theodore W., Scipio, N. Y. New compound showing variable resistances under the influence of light. No. 1,316,220; Sept. 16; v. 266; p. 343.
- Case, Theodore W., Scipio, N. Y. Light-reactive resistance and forming same. No. 1,316,350; Sept. 16; v. 266; p. 368.
- Case, Theodore W., Scipio, N. Y. Electrical device. No. 1,318,196; Oct. 7; v. 267; p. 102.
- Case, Thomas N., Modesto, Calif. Meat-block. No. 1,326,438; Dec. 30; v. 269; p. 763.
- Casella, Secondo L., New York, assignor, by mesne assignments, to National Carbon Company, Inc., Long Island City, N. Y. Machine for making battery-electrodes. No. 1,291,400; Jan. 14; v. 258; p. 355.
- Caspe, James P., St. Louis, Mo. Emergency-stopper for automatic sprinklers. No. 1,325,507; Dec. 23; v. 269; p. 553.
- Casey, Carl and F., Washington, D. C. Machine for waxing straws or tubes. No. 1,325,351; Dec. 16; v. 269; p. 507.
- Casey, Frank. (See Casey, Carl and F.)
- Casey-Hedges Co. (See Stimmler, Frederick C., assignor.)
- Casey, Irby B., Keisling, Wash. Riding-cultivator. No. 1,294,769; Feb. 18; v. 259; p. 485.
- Casey, James J., deceased, Boston; K. F. Casey, administratrix, assignor of one-half to G. W. Pearson, Lowell, Mass. Marking-machine. No. 1,324,877; Dec. 16; v. 269; p. 419.
- Casey, James J., deceased, Boston; K. F. Casey, administratrix, assignor of one-half to G. W. Pearson, Lowell, Mass. Shoe-marking machine. No. 1,324,878; Dec. 16; v. 269; p. 419.
- Casey, Katherine F., administratrix. (See Casey, James J.)
- Casey, Thomas W., Yonkers, N. Y., assignor to National Pneumatic Company, Chicago, Ill. Control mechanism for cars. No. 1,293,031; Feb. 4; v. 259; p. 14.
- Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,295,851; Mar. 4; v. 260; p. 7.
- Cashen, Robert A., Meriden, Conn. Radiator-cap. No. 1,312,892; Aug. 12; v. 265; p. 228.
- Cashmore, George H. W., London, England. Lewis-gun magazine. No. 1,303,028; May 6; v. 262; p. 104.
- Caskey-Dupree Company, The. (See Francis, Arthur E., assignor.)
- Casler, Herman, Canastota, N. Y. Tire-pump. No. 1,307,039; June 17; v. 263; p. 402.
- Caspar, Charles H., Philadelphia, Pa. Torpedo-deflecting means for ships. No. 1,310,057; July 15; v. 264; p. 443.
- Caspar, Charles H., Philadelphia, Pa. Ordnance. No. 1,310,058; July 15; v. 264; p. 443.
- Casper, Albert, Vallejo, Calif. Electric connection. No. 1,317,548; Sept. 30; v. 266; p. 678.
- Casper, Frank, Cleveland, assignor of one-third to W. J. Paine, Maple Heights Village, Ohio. Gripper for printing-presses. No. 1,326,390; Dec. 30; v. 269; p. 754.
- Casper, Frank L., Howe Cave, N. Y. Automatic cabinet-lid support. No. 1,310,647; July 22; v. 264; p. 583.
- Casper, Frank T., assignor to General Railway Signal Company, Gates, N. Y. Electromagnetic device. No. 1,313,878; Aug. 26; v. 265; p. 466.
- Cass, Christopher P., Maplewood, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car-door-controlling device. No. 1,317,549; Sept. 30; v. 266; p. 678.
- Cass, Freeman, Brooklyn, assignor to Mitchell-Bissell Co., New York, N. Y. Porcelain thread-guide. No. 1,296,479; Mar. 4; v. 260; p. 148.
- Cass, Freeman, Brooklyn, assignor to Mitchell-Bissell Co., New York, N. Y. Thread-eye for loom-shuttles. No. 1,315,946; Sept. 16; v. 266; p. 292.
- Cass, Ralph B., Baltimore, Md. Book-rack. No. 1,317,550; Sept. 30; v. 266; p. 679.
- Cass, William J., Easton, Me. Whiffletree-iron. No. 1,307,239; June 17; v. 263; p. 438.
- Cass, William L. (See Young and Cass.)
- Cass, William L., assignor of one-half to D. H. Young, Manchester, Iowa. Humidifier. No. 1,292,431; Jan. 28; v. 258; p. 656.
- Cassedy, Hiram, Sr., Brookhaven, Miss. Fisherman's fly. No. 1,309,061; July 8; v. 264; p. 223.
- Cassel, Gunnar E., Stockholm, assignor to A. Leffler, Djursholm, Sweden. Variable-speed gearing. No. 1,296,162; Mar. 4; v. 260; p. 80.
- Cassel, Gunnar E., Stockholm, assignor to A. L. O. A. Leffler, Djursholm, Sweden. Combined driving and steering device for motor-vehicles. No. 1,296,163; Mar. 4; v. 260; p. 80.
- Cassel, Gunnar E., Stockholm, assignor to A. L. O. A. Leffler, Djursholm, Sweden. Controlling device for automobiles. No. 1,299,678; Apr. 8; v. 261; p. 270.
- Cassel, Hjalmar S., Stockholm, Sweden. Combined harvesting and threshing machine. No. 1,321,979; Nov. 18; v. 268; p. 420.
- Cassel, John L., Colorado, Tex. Cotton-treating machine. No. 1,291,763; Jan. 21; v. 258; p. 471.
- Casselman, Amos B., Washington, D. C. Suspensory. No. 1,313,165; Aug. 12; v. 265; p. 282.
- Cassidy, George W., New York, N. Y. Hood and electric-light support. No. 1,295,852; Mar. 4; v. 260; p. 8.
- Cassidy, James, Chicago, Ill. Track-sanding device. No. 1,301,103; Apr. 22; v. 261; p. 640.
- Cast Steel Locomotive Ash Pan Company. (See Frode, Charles F., assignor.)
- Castagneris, Guido, Rome, Italy. Wing arrangement for flying-machines carrying great loads. No. 1,318,845; Oct. 14; v. 267; p. 287.
- Castelli, Saverio T. S. (See Cortesey, Jules H., assignor.)
- Castellini, Joseph J., Cincinnati, Ohio. Vegetable-washer. No. 1,311,496; July 29; v. 264; p. 773.
- Caster, Melvin M., Lowell, Mass. Ignition device. No. 1,303,771; May 13; v. 262; p. 269.
- Castile, Samuel R., Aberdeen, Wash. Bake-pan. No. 1,309,062; July 8; v. 264; p. 223.
- Castille, Michel R., Opelousas, La. Sign. No. 1,314,633; Sept. 2; v. 266; p. 30.
- Castillo, Ricardo G., Mexico, Mexico. Non-refillable bottle. No. 1,306,947; June 17; v. 263; p. 385.
- Castle, James M., et al. (See Sadler, Samuel S., assignor.)
- Castle, John H. (See Underwood and Castle.)
- Castonguay, Joseph A. H., Boston, Mass. Combined tobacco-box and cigarette-maker. No. 1,295,269; Feb. 25; v. 259; p. 622.
- Catalanotto, Francesco, Brooklyn, N. Y. Hinge-setter. No. 1,326,583; Dec. 30; v. 269; p. 791.
- Catanzano, Gerolamo, Somerville, Mass. Mounting propellers upon ships. No. 1,317,861; Oct. 7; v. 267; p. 38.
- Cate, Herman B. (See Auerbach, Max, assignor.)
- Cater, William B., assignor to John Simmons Company, New York, N. Y. Rail-fitting. No. 1,326,182; Dec. 30; v. 269; p. 715.
- Cates, Leland C., assignor to Sunbeam Chemical Company, Chicago, Ill. Dye-soap. No. 1,307,113; June 17; v. 263; p. 416.
- Cates, Lorwin N., St. Louis, Mo. Dental tool. No. 1,316,685; Sept. 23; v. 266; p. 480.
- Cathcart, Glenn E. (See Nikirk and Cathcart.)
- Cather, Charles E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Metallic fastener for merchandise-envelops. No. 1,290,083; Jan. 7; v. 258; p. 17.
- Catlett, Charles, Staunton, Va. Treating lime. No. 1,308,931; July 8; v. 264; p. 198.
- Catlett, Charles, Staunton, Va. Cementitious composition and preparing same. No. 1,308,932; July 8; v. 264; p. 198.
- Catlett, Charles, Staunton, Va., assignor to The British Potash Company, Limited, London, England. Treatment of ores for production of metal and of potassium compounds. No. 1,311,043; July 22; v. 264; p. 656.
- Catlin, Robert M., Franklin, N. J., assignor to Catlin Shale Products Company, Wilmington, Del. Making hydrogen fluorid. No. 1,293,703; Feb. 11; v. 259; p. 200.
- Catlin Shale Products Company. (See Catlin, Robert M., assignor.)
- Catron, John J., Bonham, Tex. Fluid-dispensing control. No. 1,301,385; Apr. 22; v. 261; p. 697.
- Cattinari, Ernest, Seattle, Wash. Combined chair and fan. No. 1,302,010; Apr. 29; v. 261; p. 847.
- Catucci, Homer, assignor to Mabie, Todd & Co., New York, N. Y. Self-filling fountain-pen. No. 1,321,188; Nov. 11; v. 268; p. 220.
- Catucci, Pliny, Newark, N. J., assignor, by mesne assignments, to Otto Heineman Phonograph Supply Co., Inc., New York, N. Y. Governor-brake. No. 1,304,657; May 27; v. 262; p. 512.
- Caudle, Theron L., Wadesboro, N. C. Garment-supporter. No. 1,313,215; Aug. 12; v. 265; p. 292.
- Caudron, René, Issy les Moulineaux, France. Controlling mechanism. No. 1,315,759; Sept. 9; v. 266; p. 242.
- Caughey, John W., Waltham, Mass. Apparatus for molding concrete. No. 1,294,874; Feb. 18; v. 259; p. 510.
- Caughey, Robert C., assignor to Grand Detour Plow Company, Dixon, Ill. Power-lift gang-plow. No. 1,296,266; Mar. 4; v. 260; p. 103.
- Caughrean, Milo C., Ketchikan, Alaska. Incandescent electric light. No. 1,323,963; Dec. 2; v. 269; p. 139.
- Caulkins, George W. (See Goodwin and Caulkins.)
- Causey, Annie M., Malvern, Ark. Draft-regulator. No. 1,290,714; Jan. 7; v. 258; p. 170.
- Causey, Joseph W., and A. Harvey, Charleston, S. C. Adjustable guide for band-saws. No. 1,311,593; July 29; v. 264; p. 791.
- Cavagnaro, Nicholas J., Union Course, N. Y., assignor to Cevasco, Cavagnaro & Ambrette, Inc. Air-circulating device. No. 1,305,769; June 3; v. 263; p. 102.
- Cavallieri, George L., Somerville, Mass. Press. No. 1,326,478; Dec. 30; v. 269; p. 771.
- Cavanagh, Calvin C., Beverly, Mass. Window-closure. No. 1,292,253; Jan. 21; v. 258; p. 593.
- Cavanagh, Charles R., Boston, Mass. Flying-machine. No. 1,297,795; Mar. 18; v. 260; p. 504.
- Cavanagh, George, Tampa, Fla. Trousers-support. No. 1,293,704; Feb. 11; v. 259; p. 200.
- Cavanagh, James, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. (Reissue.) No. 1,416,17; Mar. 25; v. 260; p. 707.



- Cavanagh, James, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Retaining member for edge-setting tools. No. 1,302,510; May 6; v. 262; p. 7.
- Cavanagh, James, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Manufacturing shoes. No. 1,315,210; Sept. 9; v. 266; p. 145.
- Cavanagh, James A. (See Bailey, Arthur A., assignor.)
- Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Meriden, Conn. Lock-switch. No. 1,294,045; Feb. 11; v. 259; p. 281.
- Cavanagh, John F., assignor to The Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Spark-coil for ignition. No. 1,302,308; Apr. 29; v. 261; p. 902.
- Cavanagh, John F., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Electric switch. No. 1,303,161; May 6; v. 262; p. 131.
- Cavanagh, John F., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Spark-coil. No. 1,303,162; May 6; v. 262; p. 131.
- Cavanagh, John F., assignor to Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Transformer-coil for ignition, &c. No. 1,312,497; Aug. 5; v. 265; p. 121.
- Cavanagh, John F., Meriden, Conn., assignor to Connecticut Telephone & Electric Company, Inc. Circuit-interrupter. No. 1,313,856; Aug. 19; v. 265; p. 428.
- Cavanagh, John F., assignor to Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Electric switch. No. 1,315,466; Sept. 9; v. 266; p. 192.
- Cavanagh, Michael, New York, N. Y. Internal-combustion engine. No. 1,311,044; July 22; v. 264; p. 656.
- Cavanaugh, Harry F., and A. Doran, Oakland, Calif. Portable dish-washer. No. 1,315,181; Sept. 2; v. 266; p. 129.
- Cavanaugh, Joseph J., Los Angeles, Calif. Automobile-radiator attachment. No. 1,313,791; Aug. 19; v. 265; p. 416.
- Cave, Henry, Elizabeth, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Carrying-case for welding and cutting equipment. No. 1,309,273; July 8; v. 264; p. 262.
- Cave, Henry, Springfield, Mass., assignor, by mesne assignments, to The Adams-Bagnall Electric Company, Cleveland, Ohio. Light-deflecting apparatus. No. 1,321,418; Nov. 11; v. 268; p. 264.
- Cave, Herbert G., New York, N. Y. Automobile-tire. No. 1,325,141; Dec. 16; v. 269; p. 468.
- Caven, Albert L., Philadelphia, Pa. Outlet-fixture for gas-tanks. No. 1,291,401; Jan. 14; v. 258; p. 355.
- Caven, Trevor M., Baltimore, Md., assignor to Maryland Products Company. Diatomaceous composition. No. 1,305,522; June 3; v. 263; p. 55.
- Caverley, William W., Vancouver, British Columbia, Canada. Pencil-sharpener. No. 1,317,685; Oct. 7; v. 267; p. 5.
- Cavicchi, Ercole, Quincy, Mass. Polishing-machine for floors. No. 1,294,398; Feb. 18; v. 259; p. 398.
- Cavicchi, Ercole, Quincy, Mass. Grinding or polishing machine. No. 1,308,933; July 8; v. 264; p. 198.
- Cavicchi, Ercole, Quincy, Mass. Grinding or polishing machine. No. 1,312,235; Aug. 5; v. 265; p. 72.
- Cavicchi, Ercole, Quincy, Mass. Ship's armor. No. 1,317,428; Sept. 30; v. 266; p. 655.
- Caviness, George K., Seymour, Iowa. Garden-tool. No. 1,292,704; Jan. 28; v. 258; p. 722.
- Cayo, Julius N., Gary, Ind. Match holder and igniter. No. 1,293,032; Feb. 4; v. 259; p. 14.
- Cecil, David O., High Point, N. C. Basket-weaving machine. No. 1,324,584; Dec. 9; v. 263; p. 303.
- Cedaroid Co. (See Nagle, Harold J., assignor.)
- Cedarstram, Charles W., Westwood, Calif. Stock-gage. No. 1,308,659; July 1; v. 264; p. 119.
- Cederborg, Conrad E., Chicago, Ill. Door-hanger. No. 1,293,705; Feb. 11; v. 259; p. 200.
- Cederlund, Karl H. (See Ahlen and Cederlund.)
- Cederquist, Oscar. (See Carpenter, Ralph G., assignor.)
- Cederstrom, Bror E., and J. H. Mulloy, Detroit, Mich., assignors to Morgan & Wright. Gate-controlling apparatus. No. 1,320,201; Oct. 28; v. 267; p. 592.
- Cellset Brush Company, The. (See Chandler, Daniel L., assignor.)
- Celluloid Company, The. (See Lindsay, William G., assignor.)
- Cement Gun Company. (See Weber, Carl, assignor.)
- Cement-Gun Construction Company. (See Weber, Carl, assignor.)
- Cement Products Company. (See Harris, John F., assignor.)
- Cement Products Company. (See Stahl, Benjamin, Griffith, and Lofland, assignors.)
- Cementograph Company, The. (See Walling, William F., assignor.)
- Centervall, Hugo, Brooklyn, N. Y. Variable-stroke pump. No. 1,321,086; Nov. 11; v. 268; p. 201.
- Centolella, Giuseppe A., Clinton, N. Y. Electric-light support. No. 1,310,323; July 15; v. 264; p. 491.
- Centroni, Cesare, Chicago, Ill. Locking mechanism. No. 1,309,351; July 8; v. 264; p. 276.
- Central City Chemical Company. (See Suwalski, Leininger, and Wilson, assignors.)
- Central Commercial Company. (See Wardell, Henry R., assignor.)
- Central Electric Company. (See Hull and Lofgren, assignors.)
- Central Oil & Gas Stove Company. (See White and Hooper, assignors.)
- Central Railway Signal Company. (See Conley, William A., assignor.)
- Central Railway Signal Company. (See Dutcher, Frank, assignor.)
- Central Railway Signal Company. (See Ross, Louis S., assignor.)
- Central Scientific Company. (See De Khotinsky, Achilles, assignor.)
- Central Tool Company, The. (See Jaques, Fernando O., Jr., assignor.)
- Central Tool Company, The. (See Jaques, Fernando O., Sr., assignor.)
- Central West Electric Co. (See Gordon, David D., assignor.)
- Century Electric Company. (See Russell and Pillsbury, assignors.)
- Century Machine Company, The. (See Hackstedde, Herbert, assignor.)
- Cernohouz, James, assignor to Burke & James, Inc., Chicago, Ill. Photographic-film camera. No. 1,293,033; Feb. 4; v. 259; p. 14.
- Cerruti, Antonio, San Francisco, Calif. Apparatus for sorting articles according to relative buoyancy. No. 1,312,098; Aug. 5; v. 265; p. 47.
- Cerruti, Frank A., New York, N. Y. Aeroplane. No. 1,310,389; July 15; v. 264; p. 503.
- Certus Parallelometer Company. (See Sørensen, Emil, assignor.)
- Cervin, Rolf G., Stockholm, and B. Silferling, Arboga, Sweden. Side scuttle. No. 1,303,537; May 13; v. 262; p. 226.
- Cesen, Paul, Cleveland, Ohio. Tire-chain-fastening device. No. 1,313,368; Aug. 19; v. 265; p. 337.
- Cevasco, Cavagnaro & Ambrette. (See Cavagnaro, Nicholas J., assignor.)
- Ceylon Hardware and Furniture Company. (See Harris, Christopher, assignor.)
- Chabot, Ephraim, Nashua, N. H. Automatic train control. No. 1,310,059; July 15; v. 264; p. 444.
- Chace, William M., Vancouver, British Columbia, Canada. Automatic valve. No. 1,323,830; Dec. 2; v. 269; p. 114.
- Chadbourne, Franklin W., Fond du Lac, Wis. Internal-combustion engine. No. 1,326,129; Dec. 23; v. 269; p. 668.
- Chadbourne, Henry W., and A. F. Knight, Schenectady, N. Y., assignors to General Electric Company. Starting direct-current motors. No. 1,297,096; Mar. 11; v. 260; p. 325.
- Chadburn, William and W. R., Bootle, England. Ship's telegraphic apparatus. No. 1,307,183; June 17; v. 263; p. 427.
- Chadburn, William R. (See Chadburn, William and W. R.)
- Chaddick, Mark, Plano, Tex. Device for making vessels invisible. No. 1,310,280; July 15; v. 264; p. 484.
- Chadeloid Chemical Company. (See Ellis, Carleton, assignor.)
- Chadima, Frank, Cedar Rapids, Iowa. Churn-recoil stop. No. 1,290,084; Jan. 7; v. 258; p. 17.
- Chadima, Frank, Cedar Rapids, Iowa. Brake. No. 1,291,402; Jan. 14; v. 258; p. 355.
- Chadwick, James N., Bolton, England. Apparatus for casting bombs or projectiles. No. 1,298,176; Mar. 25; v. 260; p. 610.
- Chadwick, John M., Dayton, Ohio. Clutch. No. 1,322,539; Nov. 25; v. 268; p. 577.
- Chadwick, John W., Kansas City, Mo. Fluid-motor. No. 1,306,301; June 10; v. 263; p. 234.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Oil-burner. No. 1,291,403; Jan. 14; v. 258; p. 355.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Lifter. No. 1,298,662; Apr. 1; v. 261; p. 9.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Dispensing-receptacle. No. 1,299,914; Apr. 8; v. 261; p. 323.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Lifter for flame-spreaders and wick-stops. No. 1,306,101; June 10; v. 263; p. 194.
- Chadwick, Lee S., East Cleveland, and C. C. Rehmer, assignors to The Cleveland Metal Products Company, Cleveland, Ohio. Fastening means for oven-doors and the like. No. 1,310,823; July 22; v. 264; p. 615.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Water-heater. No. 1,318,355; Oct. 14; v. 267; p. 193.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Oil-stove. No. 1,323,215; Nov. 25; v. 268; p. 705.
- Chadwick, Lee S., assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Connecting device. No. 1,306,100; June 10; v. 263; p. 194.



## Alphabetical list of patentees—Continued.

- Chadwick, Lee S., East Cleveland, and M. Resek, Cleveland Heights, assignors to The Cleveland Metal Products Company, Cleveland, Ohio. Treatment of iron or steel for the prevention of oxidation or rusting. No. 1,317,351; Sept. 30; v. 266; p. 640.
- Chadwick, Lee S., East Cleveland, and M. Resek, Cleveland Heights, assignors to The Cleveland Metal Products Company, Cleveland, Ohio. Treatment of iron or steel for the prevention of oxidation or rusting. No. 1,320,734; Nov. 4; v. 263; p. 70.
- Chadwick, Ralph H., Fort Wayne, Ind., assignor to General Electric Company. Stationary induction apparatus. No. 1,315,815; Sept. 9; v. 266; p. 253.
- Chaffee, Russel, Withee, Wis. Gutter and scraper therefor. No. 1,311,640; July 29; v. 264; p. 799.
- Chain Belt Company. (See Fraser, Donald, assignor.)
- Chain Belt Company. (See Levalley, Christopher U., assignor.)
- Chain Belt Company. (See Shafer, Samuel, Jr., assignor.)
- Chakravarty, Akhil, and F. H. Grell, Chicago, Ill. Automatic shin-bone cutter. No. 1,309,017; July 8; v. 264; p. 214.
- Chalfant, Frank, Fort Wayne, Ind. Milk-can. No. 1,298,884; Apr. 1; v. 261; p. 61.
- Chalifoux, Emil W., Chicago, Ill. Universal joint. No. 1,311,679; July 29; v. 264; p. 807.
- Chalker, Albert R., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive-stoker. No. 1,319,375; Oct. 21; v. 267; p. 414.
- Chalker, Hawley D. (See La Boissiere, Hanson, and Chalker.)
- Challenge Machinery Co., The. (See Lee, James E., assignor.)
- Challenge Spark Plug Company, The. (See Mueller, Curt L. E., assignor.)
- Challenger, George H., assignor to Vickers Limited, Westminster, London, England. Mounting for guns carried by aeroplanes and similar aircraft. No. 1,298,885; Apr. 1; v. 261; p. 62.
- Challenger, George H., assignor to Vickers Limited, Westminster, London, England. Bullet-deflector for the propellers of aeroplanes and similar aircraft provided with guns. No. 1,298,886; Apr. 1; v. 261; p. 62.
- Challenger, George H., Westminster, London, and H. A. Savage, Bexley Heath, assignors to Vickers Limited, Westminster, England. Automatic gun. No. 1,298,887; Apr. 1; v. 261; p. 62.
- Challenger, George H., Westminster, London, and H. A. Savage, Bexley Heath, assignors to Vickers Limited, Westminster, England. Aircraft. No. 1,312,099; Aug. 5; v. 265; p. 47.
- Challet, Etienne, Geneva, Switzerland, assignor to L. Heller & Son, New York, N. Y. Machine for polishing and burnishing real and artificial precious stones. No. 1,293,334; Feb. 4; v. 259; p. 84.
- Challstrom, Oscar W. (See Wiberg, Charles A., assignor.)
- Chalman, John E., Chicago, Ill. Hemmer for sewing-machines. No. 1,305,253; June 3; v. 263; p. 4.
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,300,928; Apr. 15; v. 261; p. 566.
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Binder for sewing-machines. No. 1,315,090; Sept. 2; v. 266; p. 113.
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,326,026; Dec. 23; v. 269; p. 649.
- Chalmers, Andrew and W. A., Rockport, Tex. Dirigible headlight. No. 1,299,298; Apr. 1; v. 261; p. 155.
- Chalmers, Charles H., et al., trustees. (See Chalmers, Charles H., assignor.)
- Chalmers, Charles H., assignor to F. E. Holton, C. M. Andrist, J. M. Sieberg, and C. H. Chalmers, trustees, Minneapolis, Minn. Tractor. No. 1,312,159; Aug. 5; v. 265; p. 58.
- Chalmers, James G., Vancouver, British Columbia, Canada. Cigarette-making machine. No. 1,316,830; Sept. 23; v. 266; p. 506.
- Chalmers Motor Corporation. (See Hinkley, Carl C., assignor.)
- Chalmers, Thomas, Crew, England. Diaphragm for talking-machines. No. 1,298,290; Mar. 25; v. 260; p. 634.
- Chalmers, Thomas A., Camden, N. J. Steam-trap. No. 1,297,659; Mar. 18; v. 260; p. 473.
- Chalmers, Welcome A. (See Chalmers, Andrew and W. A.)
- Chamberlain, Fred B. (See Maxwell, Glea A., assignor.)
- Chamberlain, George A., assignor of one-half to W. B. White, Abington, Mass. Leather welt-strip. No. 1,299,289; Apr. 1; v. 261; p. 155.
- Chamberlain, Rufus N., Chicago, Ill. Electric battery. No. 1,295,122; Feb. 25; v. 259; p. 589.
- Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Company. Storage-battery plate and treating same. No. 1,304,852; May 27; v. 262; p. 549.
- Chamberlin, Benjamin D., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film spool. No. 1,306,881; June 17; v. 263; p. 373.
- Chamberlin, Benjamin D., Rochester, assignor to Empire Machine Company, Corning, N. Y. Process and apparatus for feeding molten glass. No. 1,323,450; Dec. 2; v. 269; p. 43.
- Chamberlin, John, London, England. Controlled lever-feed for machine-tools. No. 1,311,947; Aug. 5; v. 265; p. 18.
- Chamberlin Metal Weather Strip Co. (See Orr, John E., assignor.)
- Chambers, A. M. (See Beyer, Daniel A., assignor.)
- Chambers, Adam, New York, N. Y. Automobile driving-mitten. No. 1,302,766; May 6; v. 262; p. 54.
- Chambers, Adam, New York, N. Y. Fastening device for automobiles. No. 1,306,799; June 17; v. 263; p. 358.
- Chambers, Frank B., Buffalo, N. Y. Weighing apparatus. No. 1,296,920; Mar. 11; v. 260; p. 286.
- Chambers, Frank B., Buffalo, N. Y. Valve-actuating mechanism for dispensing or weighing apparatus. No. 1,296,921; Mar. 11; v. 260; p. 286.
- Chambers, Frank J., New York, N. Y. Aero-bomb. No. 1,317,551; Sept. 30; v. 266; p. 679.
- Chambers, George T., La Grange, Ill. Car-replacer. No. 1,326,183; Dec. 30; v. 269; p. 715.
- Chambers, Humphrey W. (See Perry and Chambers.)
- Chambers, James A., Pittsburgh, Pa. Manufacture of glass. No. 1,309,274; July 8; v. 264; p. 262.
- Chambers, James C., St. Louis, Mo. Motion-picture-projecting machine. No. 1,300,247; Apr. 15; v. 261; p. 422.
- Chambers, James G. B., Seattle, Wash. Shipyard aerial fall-carrier. No. 1,294,770; Feb. 18; v. 259; p. 485.
- Chambers, John A., Newburg, Mo. Handling device. No. 1,291,404; Jan. 14; v. 258; p. 356.
- Chambers, John A., Newburg, assignor of one-fourth to J. A. Potter, one-fourth to H. F. Warneke, Sr., St. Louis, and one-fourth to H. F. Warneke, Jr., Maplewood, Mo. Door-operating mechanism. No. 1,321,887; Nov. 18; v. 268; p. 403.
- Chambers, John E., assignor to Chambers Manufacturing Company, Shelbyville, Ind. Combined gas-stove and fireless cooker. No. 1,321,189; Nov. 11; v. 268; p. 220.
- Chambers, John S., Indianapolis, Ind. Throttle-valve apparatus. No. 1,307,114; June 17; v. 263; p. 416.
- Chambers Manufacturing Company. (See Chambers, John E., assignor.)
- Chambers, William S., Coeur d'Alene, Idaho. Seed-treating apparatus. No. 1,293,034; Feb. 4; v. 259; p. 14.
- Chambersburg Engineering Company. (See Aldridge and Terhune, assignors.)
- Chambliss, Israel E., Atlanta, Ga. Portable stock-fence. No. 1,293,335; Feb. 4; v. 259; p. 84.
- Chamier, Frederic W., Hyde Park, assignor to C. P. G. Company Limited, London, England. Hand-grenade and the like. No. 1,303,164; May 6; v. 262; p. 131.
- Chamier, Frederic W., and W. Curtis, Hyde Park, assignors to C. P. G. Company, Limited, London, England. Hand-grenade and the like. No. 1,303,163; May 6; v. 262; p. 131.
- Chamness, Frank, assignor to T. Spatt, Huntington, Ind. Fastening for rails. No. 1,299,401; Apr. 1; v. 261; p. 178.
- Champeau, Lawrence X., Orange, N. J. Camera. No. 1,291,405; Jan. 14; v. 258; p. 356.
- Champion, Albert J., assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,298,888; Apr. 1; v. 261; p. 62.
- Champion Ignition Company. (See Berge, Joseph, assignor.)
- Champion Ignition Company. (See Champion, Albert J., assignor.)
- Champion Ignition Company. (See Schmidt, Albert, assignor.)
- Champion Kerosene-Burner Company, The. (See Bertrau, Louis F., assignor.)
- Champion Kerosene-Burner Company, The. (See Rustenberg, August A., assignor.)
- Champion, Roddy A., Denison, Iowa. Tire-armor. No. 1,314,946; Sept. 2; v. 266; p. 86.
- Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
- Champion Shoe Machinery Company. (See Dobyne and Brunninga, assignors.)
- Champion Spark Plug Company. (See Nason, George B., assignor.)
- Champion Spark Plug Company. (See Rohde, Otto C., assignor.)
- Champion Spark Plug Company. (See Stranahan, Robert A., assignor.)
- Chanard, Auguste, Rueil, France. Receptacle for incendiary aerial bombs. No. 1,306,747; June 17; v. 263; p. 348.
- Chanard, Auguste, Rueil, France. Incendiary mass. No. 1,325,618; Dec. 23; v. 269; p. 574.
- Chanard, Auguste, Paris, France. Receptacle for incendiary aerial bombs. No. 1,313,068; Aug. 12; v. 265; p. 263.
- Chanaud, Jean, New York, N. Y. Exercising apparatus. (Reissue.) No. 14,618; Mar. 25; v. 260; p. 707.
- Chance, Albert B., Centrailla, Mo. Cross-arm back-truss and clamp. No. 1,324,585; Dec. 9; v. 269; p. 303.
- Chance, Edwin M. (See Chance, Thomas M. and E. M., assignors.)
- Chance, Edwin M., Wilkes-Barre, Pa. Method and apparatus for the oxidation of combustible gases. No. 1,298,889; Apr. 1; v. 261; p. 62.



- Chance and Hunt. (See Lolley and Mott, assignors.)  
 Chance, Thomas M., Philadelphia, Pa. Flame safety and open lamp. No. 1,323,618; Dec. 2; v. 269; p. 74.  
 Chance, Thomas M., Wilkes-Barre, and E. M. Chance, Philadelphia, Pa. Method and apparatus for the differential detection of combustible atmospheres. No. 1,298,890; Apr. 1; v. 261; p. 62.  
 Chandler, Aquila D., Chicago, Ill. Carbureter. No. 1,290,508; Jan. 7; v. 258; p. 119.  
 Chandler, Charles H., Newport, R. I. Lead-plating. No. 1,322,408; Nov. 18; v. 268; p. 501.  
 Chandler, Chester C., Kingsville, Tex. Sectional pneumatic tire. No. 1,297,097; Mar. 11; v. 260; p. 325.  
 Chandler, Daniel L., Fitchburg, Mass., assignor to The Cellset Brush Company. Brush-making machine. No. 1,311,796; July 29; v. 264; p. 829.  
 Chandler Development Corporation. (See Chandler, Edward F., assignor.)  
 Chandler, Edward F., Brooklyn, N. Y. Displaying and in-dorsing machine. No. 1,290,509; Jan. 7; v. 258; p. 120.  
 Chandler, Edward F., Brooklyn, N. Y., assignor to Chandler Development Corporation. Method and means of gyroscopic control. No. 1,295,003; Feb. 18; v. 259; p. 538.  
 Chandler, Edwin N., Braintree, Mass. Insole. No. 1,311,154; July 29; v. 264; p. 709.  
 Chandler, Elbert E., Eagle Rock, Calif. Tractor. No. 1,307,481; June 24; v. 263; p. 516.  
 Chandler, Ella M., assignor of one-half to L. Lawler, Malden, Mass. Corset-bone protector. No. 1,326,322; Dec. 30; v. 269; p. 741.  
 Chandler, Elmo M., South Norfolk, Va., assignor, by mesne assignments, to Automatic Sprinkler Company of Canada, Limited, Toronto, Ontario, Canada. Dry-pipe valve. No. 1,299,679; Apr. 8; v. 261; p. 270.  
 Chandler, Ethelbert W., Portland, Oreg. Machine for sorting tickets and the like. No. 1,295,432; Feb. 25; v. 259; p. 660.  
 Chandler, Frank, Cowley, Alberta, Canada. Knife attachment for table-forks. No. 1,300,119; Apr. 8; v. 261; p. 368.  
 Chandler, George W. (See Fent and Chandler.)  
 Chandler Motor Car Company. (See Whitbeck, John V., assignor.)  
 Chandler, Nathaniel M., Woodland, Calif. Siphon. No. 1,324,383; Dec. 9; v. 269; p. 264.  
 Chandler, Willard R., Sumter, S. C. Brake-beam. No. 1,313,982; Aug. 26; v. 265; p. 487.  
 Chaney, Bailey E., Corpus Christi, Tex. Sack attachment for cotton-picking machines. No. 1,321,715; Nov. 11; v. 268; p. 320.  
 Chaney, Herbert M., Sardinia, Ohio. Belt-support. No. 1,299,680; Apr. 8; v. 261; p. 270.  
 Chaney, Newcomb K., Lakewood, Ohio, assignor to National Carbon Company, Inc. Electric battery. No. 1,292,254; Jan. 21; v. 258; p. 593.  
 Chaney, Oscar E., Los Angeles, Calif. Drawing instrument. No. 1,307,953; June 24; v. 263; p. 603.  
 Chantemerle, Joseph L. (See Garcelon, Bartmess, and Chantemerle.)  
 Chanteux, Joseph, Brussels, Belgium. Screen for cinematographic projections and other similar projections. No. 1,315,708; Sept. 9; v. 266; p. 233.  
 Chantler, James D., Freeport, N. Y. Planter. No. 1,296,267; Mar. 4; v. 260; p. 103.  
 Chapin, William R. (See Carpenter, Alvin M., assignor.)  
 Chaplin, Edwin D., New York, N. Y. Electric conductor. No. 1,291,406; Jan. 14; v. 258; p. 356.  
 Chaplin, Edwin D., New York, N. Y. Manufacture of acids. No. 1,325,711; Dec. 23; v. 269; p. 591.  
 Chaplin, Edwin D., New York, N. Y. Sulfuric-acid manufacture. No. 1,325,712; Dec. 23; v. 269; p. 591.  
 Chaplin, Edwin D., Montclair, N. J. Manufacture of potassium carbonate. No. 1,325,713; Dec. 23; v. 269; p. 592.  
 Chapman, Charles F., assignor to The Brown Instrument Company, Philadelphia, Pa. Recording instrument. No. 1,299,427; Apr. 8; v. 261; p. 212.  
 Chapman, Clida, Cherryvale, Kans. Washing-machine. No. 1,312,831; Aug. 12; v. 265; p. 217.  
 Chapman, Edward B. (See Parsons, Cook, and Chapman.)  
 Chapman, Frank D., Berlin, Wis. Concrete-mixing machine. No. 1,322,289; Nov. 18; v. 268; p. 478.  
 Chapman, Frank H., assignor to Toledo Scale Company, Toledo, Ohio. Machine for grooving and finishing jewel-bearings. No. 1,307,577; June 24; v. 263; p. 533.  
 Chapman, George H., Chicago, Ill. Electropneumatic organ-valve. No. 1,302,511; May 6; v. 262; p. 7.  
 Chapman, John C., New York, N. Y. Tire. No. 1,316,686; Sept. 23; v. 266; p. 480.  
 Chapman, John S. (See De Havilland and Chapman.)  
 Chapman, Lemuel W., assignor of one-half to W. E. Wachtel, Indianapolis, Ind. Collapsible egg-case. No. 1,301,650; Apr. 22; v. 261; p. 746.  
 Chapman, Leonard, London, England. Impermeating instrument. No. 1,324,955; Dec. 16; v. 269; p. 433.  
 Chapman Manufacturing Company. (See North, Fred K., assignor.)  
 Chapman, Marion T., and L. L. Lyons, Holdenville, Okla.; said Lyons assignor to said Chapman. Circuit-closer for incubator-alarms. No. 1,325,394; Dec. 16; v. 269; p. 515.  
 Chapman, Mark C. (See Chapman, Matthew T. and M. C.)  
 Chapman, Matthew T., Aurora, Ill. Rotary deep-well pump. No. 1,291,407; Jan. 14; v. 258; p. 356.  
 Chapman, Matthew T., Aurora, Ill. Pumping machinery. No. 1,302,899; May 6; v. 262; p. 80.  
 Chapman, Matthew T., Aurora, Ill. Rotary pump. No. 1,307,115; June 17; v. 263; p. 416.  
 Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Pump. No. 1,297,441; Mar. 18; v. 260; p. 427.  
 Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Deep-well centrifugal turbine-pump. No. 1,320,735; Nov. 4; v. 268; p. 70.  
 Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Deep-well centrifugal turbine-pump. No. 1,320,736; Nov. 4; v. 268; p. 70.  
 Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Well-sinking apparatus. No. 1,322,540; Nov. 25; v. 268; p. 577.  
 Chapman, Matthew T. and M. C., assignors to The American Well Works, Aurora, Ill. Pumping machinery. No. 1,307,116; June 17; v. 263; p. 416.  
 Chapman, Melville C., Framingham, Mass. Last. No. 1,320,202; Oct. 28; v. 267; p. 592.  
 Chapman, Penrose E., and R. H. Robinson, St. Louis, Mo.; said Robinson assignor to said Chapman. Variably pitched and actuated bell. No. 1,312,610; Aug. 12; v. 265; p. 174.  
 Chapman, Ralph E., Brooklyn, and J. W. Kirk, New York, N. Y.; said Kirk assignor to said Chapman. Apparatus for cutting metal. No. 1,324,337; Dec. 9; v. 269; p. 254.  
 Chapman, Samuel P., Dublin, Ga. Amusement device. No. 1,319,643; Oct. 21; v. 267; p. 465.  
 Chapman, Thomas M., Wortham, Tex. Cooler. No. 1,290,085; Jan. 7; v. 258; p. 17.  
 Chapman, William L., Brooklyn, N. Y. Fountain-pen. No. 1,312,681; Aug. 12; v. 265; p. 187.  
 Chappell & Company. (See Goldspink, Archibald E., assignor.)  
 Chappell, Howard F., New York, N. Y. Protecting refractory furnace-linings. No. 1,308,481; July 1; v. 264; p. 86.  
 Chappell, Howard F., New York, N. Y. Apparatus for calcining alunite. No. 1,317,686; Oct. 7; v. 267; p. 5.  
 Chappelle, Louis J., Green Bay, Wis. Door-lock. No. 1,294,399; Feb. 18; v. 259; p. 398.  
 Chappuis, John A., La Chaux-de-Fonds, Switzerland. Toy building element. No. 1,300,240; July 8; v. 264; p. 256.  
 Chapsal, Francois J., Paris, and A. L. E. Sailot, La Garenne-Colombes, France. Regulating device for the air-discharge in compressed-air brakes. No. 1,309,612; July 15; v. 264; p. 362.  
 Charboneau, Joseph C., Memidji, Minn. Floating threshing-machine. No. 1,293,706; Feb. 11; v. 259; p. 200.  
 Charbonneau, Georges, Le Magnou, par Aigrefeuille D'Aunis, France. Electrolytic cell. No. 1,296,046; Mar. 4; v. 260; p. 53.  
 Charland, Ernest, Indian Orchard, assignor of one-half to D. J. McNamara, Springfield, Mass. Fire-hydrant. No. 1,306,578; June 10; v. 263; p. 284.  
 Charles A. Brewer & Sons. (See Brewer, Charles A., assignor.)  
 Charles B. Foster and Company. (See Higinbotham, Arthur O., assignor.)  
 Charles, Clyde C., Salina, Kans. Fuel-feed-valve lock. No. 1,300,120; Apr. 8; v. 261; p. 368.  
 Charles Cory & Son. (See Wood, Frank W., assignor.)  
 Charles, Edward S., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Delivery-member hoist for ensilage-cutters. No. 1,314,570; Sept. 2; v. 266; p. 18.  
 Charles, Edward S., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Feeding mechanism for ensilage-cutters. No. 1,316,081; Sept. 16; v. 266; p. 317.  
 Charles F. Elmes Engineering Works. (See McGary, Eugene L., assignor.)  
 Charles F. Elmes Engineering Works. (See Slater, Harvey, assignor.)  
 Charles, George M., Washington, D. C. Detachable button. No. 1,326,323; Dec. 30; v. 269; p. 741.  
 Charles J. Tagliabue Manufacturing Co. (See Milker, Herbert P., assignor.)  
 Charles J. Tagliabue Manufacturing Co. (See Roesch, Alfred, assignor.)  
 Charles, James, Richmond, Ind. Water-motor. No. 1,296,622; Mar. 11; v. 260; p. 217.  
 Charles, James, Richmond, Ind. System of hydraulic power utilization. No. 1,296,623; Mar. 11; v. 260; p. 217.  
 Charles, James, and P. Holleran, Cokeburg, Pa. Mine-car-check lock. No. 1,321,716; Nov. 11; v. 268; p. 320.  
 Charles, Phyllis E., Victorville, Calif. Pad for carrying radio-active ores and means for increasing the activity of the ores. No. 1,317,659; Sept. 30; v. 266; p. 700.  
 Charles R. Hadley Company. (See Hadley, Charles R., assignor.)  
 Charles W. Snell Company. (See Hunt, Ozello R., assignor.)  
 Charles W. Williams & Company. (See Brewster, Ernest B., assignor.)



## Alphabetical list of patentees—Continued.

- Charlton, George, Detroit, Mich., assignor to G. H. Wiley, New York, N. Y. Retouching-machine. No. 1,322,541; Nov. 25; v. 268; p. 577.
- Chartrand-Messner, Raphael, Portland, Oreg. Garment-supporter. No. 1,316,532; Sept. 16; v. 266; p. 404.
- Charvat, Alois, Clafin, Kans. Stock-releasing device. No. 1,308,224; July 1; v. 264; p. 40.
- Chas. Kaufmann & Sons. (See Kaufmann, Charles F. L., W. L., and C. H., assignors.)
- Chas. Weinbagen & Company. (See Bailey, Benjamin F., assignor.)
- Chase, Albert W., Catskill, N. Y. Driving mechanism for motors. No. 1,324,384; Dec. 9; v. 269; p. 264.
- Chase, Amos F., Lynn, Mass. Rompers. No. 1,307,959; June 24; v. 263; p. 603.
- Chase, Charles E., and O. E. Hutchings, Belgrade, Mont. Stone-gatherer. No. 1,304,156; May 20; v. 262; p. 377.
- Chase Companies, The. (See Kirschbaum, John, assignor.)
- Chase Companies. (See Recker, Adolph C., assignor.)
- Chase Companies, The. (See Wellington, Arthur W., assignor.)
- Chase Companies, The. (See Wolcott, Robeson B., assignor.)
- Chase, Frank S., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Suction carpet-cleaner. No. 1,294,875; Feb. 18; v. 259; p. 510.
- Chase, George B. (See Thompson, Lester H., assignor.)
- Chase, George H., Emporia, Kans. Panoramic camera. No. 1,294,046; Feb. 11; v. 259; p. 281.
- Chase, George L., Seattle, Wash. Seat-cushion. No. 1,303,852; May 20; v. 262; p. 322.
- Chase, Herschel E., assignor to United States Hoffman Machinery Company, Syracuse, N. Y. Garment-pressing machine. No. 1,304,853; May 27; v. 262; p. 549.
- Chase-Shawmut Company. (See Conant, Franklin N., assignor.)
- Chase, Wallace S., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Obtaining fluoric precipitates. No. 1,314,571; Sept. 2; v. 266; p. 18.
- Chase, William D. (See Ward and Chase.)
- Chason, Daniel H., Elizabeth, N. J. Antirattling device for window-sashes. No. 1,313,069; Aug. 12; v. 265; p. 264.
- Chatain, Henri G., and H. W. Stock, Erie, Pa., assignors to General Electric Company. Means for preventing vibration of reciprocating engines. No. 1,306,522; June 10; v. 263; p. 274.
- Chatfield, Clarence E., assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Signal system for moving vehicles. No. 1,305,523; June 3; v. 263; p. 55.
- Chatfield, Franklin, Minneapolis, Minn. Machine for slitting knit fabric. No. 1,298,005; Mar. 25; v. 260; p. 574.
- Chatfield, Franklin, Minneapolis, Minn. Fabric-stretcher. No. 1,298,006; Mar. 25; v. 260; p. 574.
- Chatfield, Franklin, Minneapolis, Minn., assignor to Northwestern Knitting Company. Undergarment. No. 1,308,396; July 1; v. 264; p. 71.
- Chatfield and Sharp. (See Heald, John, assignor.)
- Chattillon, Ralph F., Scarsdale, N. Y., assignor to John Chattillon & Sons. Spring-scale. No. 1,323,831; Dec. 2; v. 269; p. 114.
- Chaudoir, Eugène, Liverpool, England. Apparatus for operating and interlocking the landing and cage gates of elevators. No. 1,326,440; Dec. 30; v. 269; p. 763.
- Chaufepied, Ulysse, Shreveport, La. Comb-cleaner. No. 1,297,098; Mar. 11; v. 260; p. 325.
- Chausse Manufacturing Company. (See Chausse, Wilfrid G., assignor.)
- Chausse, Wilfrid G., Detroit, Mich. Painter's torch. No. 1,321,980; Nov. 18; v. 268; p. 420.
- Chausse, Wilfrid G., Detroit, Mich. Distributer for vapor-burners. No. 1,321,981; Nov. 18; v. 268; p. 420.
- Chausse, Wilfrid G., assignor to Chausse Manufacturing Company, Detroit, Mich. Asphalt-heater. No. 1,295,694; Feb. 25; v. 259; p. 721.
- Chausse, Wilfrid G., assignor to Chausse Manufacturing Company, Detroit, Mich. Distributer for vapor-burners. No. 1,298,891; Apr. 1; v. 261; p. 63.
- Chauvet, René B., Mexico, Mexico. Changeable sign. No. 1,322,542; Nov. 25; v. 268; p. 578.
- Chauvière, Lucien, assignor to Société Anonyme l'Helice Intégrale (Anciens Etablissements L. Chauvière), Paris, France. Aeroplane. No. 1,308,164; July 1; v. 264; p. 29.
- Chauvin, Herman. (See Küntziger, Chauvin, and Fontaine.)
- Chavanne, Georges. (See Simon and Chavanne.)
- Chédru, Gustave E., Paris, France. Piston. No. 1,307,895; June 24; v. 263; p. 590.
- Check, Grey, Oswald, W. Va. Rail-tie. No. 1,320,674; Nov. 4; v. 268; p. 59.
- Check, Henry M., Ferndale, assignor of one-half to A. R. Levy, Little Rock, Ark. Can-holder. No. 1,307,482; June 24; v. 263; p. 516.
- Check, Reuben W., Buford, Ga. Hand-propelled vehicle. No. 1,297,796; Mar. 18; v. 260; p. 504.
- Check, Tolbert F., Lyndhurst, N. J., assignor to Phil Har-Chee Piano Player Corporation, New York, N. Y. Pressure-controlled pump for musical instruments. No. 1,303,029; May 6; v. 262; p. 105.
- Cheeks, John B., assignor of one-half to H. L. Schueck, Pittsburgh, Pa. Valve. No. 1,299,428; Apr. 8; v. 261; p. 212.
- Cheeseman, Ralph T., Lynn, Mass., assignor to General Electric Company. Current-regulator for incandescent lamps. No. 1,326,645; Dec. 30; v. 269; p. 802.
- Cheesman, Percy E., West Croydon, London, England. Mechanism for releasing detonator-strikers in projectiles. No. 1,294,047; Feb. 11; v. 259; p. 281.
- Chegwidden, John J. (See Chegwidden, Robert F. and J. J.)
- Chegwidden, Robert F. and J. J., Verona, Pa. Reeling device. No. 1,322,407; Nov. 18; v. 268; p. 501.
- Chegwyn, Samuel, et al. (See Wilson, Charles W., assignor.)
- Chein, Julius, Montclair, N. J. Toy. No. 1,311,381; July 29; v. 264; p. 752.
- Cheley, W. J. (See Fehlman, Bernard F., assignor.)
- Chemical Construction Company. (See Blumenberg, Henry, Jr., assignor.)
- Chemical Construction Company. (See Forbis, Raùs E., assignor.)
- Chemical Construction Company. (See Hechenbleikner, Ingeniun, assignor.)
- Chemical Development Company. (See Eldred and Mersereau, assignors.)
- Chemical Development Company. (See McElroy, Karl P., assignor.)
- Chemical Development Company. (See Mersereau, Gail, assignor.)
- Chemical Development Company. (See Moness, Jacob M., assignor.)
- Chemical Equipment Company. (See La Bour, Harry E., assignor.)
- Chemical Equipment Company. (See La Bour and Grassby, assignors.)
- Chemical Foundation, The. (See Bartels, Amandus, assignor.)
- Chemical Foundation, Inc., The. (See Bergins, Friedrich, assignor.)
- Chemical Foundation, The. (See Classen, Alexander, assignor.)
- Chemical Foundation, The. (See Dedichen, Jens, assignor.)
- Chemical Foundation, Inc., The. (See Eyer, Philipp, assignor.)
- Chemical Foundation, The. (See Koetschau, Rudolf, assignor.)
- Chemical Foundation, The. (See Korselt, Johannes, assignor.)
- Chemical Foundation, The. (See Krause and Blucher, assignors.)
- Chemical Foundation, The. (See Pole, Joseph C., assignor.)
- Chemical Foundation, Inc., The. (See Preusser, Ferdinand, assignor.)
- Chemical Foundation Inc., The. (See Strauss, Benno, assignor.)
- Chemical Foundation, The. (See Ullrich, Georg, assignor.)
- Chemical Foundation, The. (See Zimmer, Carl L. V., assignor.)
- Chemical Works, formerly Sandoz. (See Knecht, Oscar, assignor.)
- Chemical Works, formerly Sandoz, The. (See Stoll, Arthur, assignor.)
- Chemical Works, formerly Sandoz. (See Walder, Emil, assignor.)
- Chenard, Emile A., Cognac, France. Distilling apparatus. No. 1,307,184; June 17; v. 263; p. 428.
- Chenault, Henry, Allensville, Ky. Bank-cutting road-machine. No. 1,298,458; Mar. 25; v. 260; p. 669.
- Chenery, Charles R., Buffalo, N. Y. Hat-box. No. 1,297,442; Mar. 18; v. 260; p. 428.
- Chenery, Charles R., Buffalo, N. Y. Paper jar or receptacle. No. 1,312,434; Aug. 5; v. 265; p. 109.
- Chenette, Jesse E., Albany, N. Y. Garment-hanger. No. 1,294,048; Feb. 11; v. 259; p. 281.
- Cheney, Charles C., Charlestown, assignor to F. K. Daggett, Brookline, Mass. Automatic check-valve for compressed-air drilling-machines. No. 1,298,007; Mar. 25; v. 260; p. 574.
- Cheney, Corey R. (See Millard, Osterhoudt, and Cheney.)
- Cheney, Fred, assignor of one-half to J. M. McClintock, Devall Bluff, Ark. Instrument for handling jewels. No. 1,305,881; June 3; v. 263; p. 123.
- Cheney, John T., Swarthmore, assignor to The Congoleum Company, Philadelphia, Pa. Floor-covering. No. 1,292,705; Jan. 28; v. 258; p. 723.
- Cheney Talking Machine Company. (See Scottford, Louis K., assignor.)
- Chennells, William B. (See Bellingham, John, assignor.)
- Chenoweth, Edwin G., and W. J. Tollerton, Chicago, Ill. Replaceable bearing for brake-hangers. No. 1,310,607; July 22; v. 264; p. 575.
- Chenoweth, Squire G., Greenville, Ohio. Railway traffic-signal. No. 1,321,717; Nov. 11; v. 268; p. 320.
- Cherep, Henry, Chaplin, Saskatchewan, Canada. Trap. No. 1,305,588; June 3; v. 263; p. 69.
- Cherlington, George T., Waukegan, Ill. Spring-motor governor. No. 1,305,882; June 3; v. 263; p. 123.
- Chernack, Abel E., Providence, R. I. Loom. No. 1,300,121; Apr. 8; v. 261; p. 368.



- Chernack, Abel E., New York, N. Y. Phonograph-record cabinet. No. 1,321,010; Nov. 4; v. 268; p. 123.
- Chernack Manufacturing Company. (See Hirst, James, assignor.)
- Cherney, Joseph B., Milwaukee, Wis., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Start and stop mechanism for talking-machines. No. 1,301,905; Apr. 29; v. 261; p. 827.
- Chernushek, Edward T., New York, N. Y. Phonograph-needle. No. 1,316,533; Sept. 16; v. 266; p. 404.
- Chernyshoff, Alexander, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Distributing system. No. 1,292,578; Jan. 28; v. 258; p. 692.
- Cherry, Edgar, Oakland, Cal. Sound-transmitting device. No. 1,296,763; Mar. 11; v. 260; p. 250.
- Cherry, Edward E., Trenton, N. J., assignor of one-third to W. Fisher, Philadelphia, Pa., and one-third to L. E. Laurent, New York, N. Y. Capstan and sheave block. No. 1,307,578; June 24; v. 263; p. 533.
- Cherry, Frank W., Kenilworth, assignor of one-half to F. B. Watson, Aurora, Ill. Signal. No. 1,316,082; Sept. 16; v. 266; p. 317.
- Cherry, Herbert T., and J. R. Carter, Tama, assignors to J. G. Cherry Company, Cedar Rapids, Iowa. Cell-case. No. 1,326,184; Dec. 30; v. 269; p. 715.
- Cherry, Herbert T., and J. R. Carter, Tama, assignors to J. G. Cherry Company, Cedar Rapids, Iowa. Cell-case. No. 1,326,185; Dec. 30; v. 269; p. 716.
- Cherry, Joseph, Fort Smith, Ark. Breeching layer-loop for harness. No. 1,321,718; Nov. 11; v. 268; p. 321.
- Cherry, Joseph C., Ballinger, Tex. Compound valve. No. 1,319,755; Oct. 28; v. 267; p. 509.
- Cherry, William H., Shipman, Ill. Blasting-gun. No. 1,290,086; Jan. 7; v. 258; p. 17.
- Cherry, William H., Shipman, Ill. Mine. No. 1,292,255; Jan. 21; v. 258; p. 593.
- Cherry, William H., Nilwood, Ill. Spike-puller. No. 1,311,948; Aug. 5; v. 265; p. 13.
- Chervenka, Jacob F., Casey, Iowa. Saw-set. No. 1,298,459; Mar. 25; v. 260; p. 669.
- Cheselka, Peter, Fairbank, Pa. Can-opener. No. 1,297,797; Mar. 18; v. 260; p. 504.
- Cheshire, Carey A., deceased, Chicago, Ill.; M. F. Cheshire, administrator, assignor to T. A. Cheshire. Positioning means for book-gathering machines. No. 1,290,510; Jan. 7; v. 258; p. 120.
- Cheshire, Carey A., deceased, Chicago, Ill.; M. F. Cheshire, administrator, assignor to T. A. Cheshire, Des Moines, Iowa. Addressing-machine. No. 1,295,123; Feb. 25; v. 259; p. 589.
- Cheshire, Carey A., deceased, Chicago, Ill.; M. F. Cheshire, administrator, assignor to T. A. Cheshire, Des Moines, Iowa. Addressing-machine. No. 1,297,443; Mar. 18; v. 260; p. 428.
- Cheshire, Milton F., administrator. (See Cheshire, Carey A.)
- Cheshire, Thomas A. (See Cheshire, Carey A., assignor.)
- Chesley, Orin G., et al. (See Aborn, Albert, assignor.)
- Chesnutt, John L., Kansas City, Mo. Swivel-caster. No. 1,296,764; Mar. 11; v. 260; p. 250.
- Chesnutt, John L., assignor to The Chesnutt Manufacturing Company, Kansas City, Mo. Combined tilting and platform truck. No. 1,308,934; July 8; v. 264; p. 198.
- Chesnutt Manufacturing Company, The. (See Chesnutt, John L., assignor.)
- Chess, Benjamin, New York, N. Y. Tooth-brush. No. 1,318,964; Oct. 14; v. 267; p. 310.
- Chess, Philip S., Pittsburgh, Pa. Package. No. 1,312,611; Aug. 12; v. 265; p. 174.
- Chester, Ashmead B., Jacksonville, Ill. Diestock. No. 1,312,949; Aug. 12; v. 265; p. 239.
- Chevallier, Fred, Waterloo, Iowa. Antifriction-wheel. No. 1,293,707; Feb. 11; v. 259; p. 200.
- Chevallier, Fred, Waterloo, Iowa. Closure-holding means for antifriction-wheels. No. 1,301,386; Apr. 22; v. 261; p. 697.
- Chevalier, Gabriel P. (See Blott-Garnier and Chevallier.)
- Chevalier, John F. (See Griswold, Albert A., assignor.)
- Chevalier, Joseph F., Lakeland, Ky. Dumping-wagon. No. 1,290,909; Jan. 14; v. 258; p. 241.
- Chevalier, Joseph F., Lakeland, Ky. Pipe-wrench. No. 1,298,663; Apr. 1; v. 261; p. 9.
- Chevraux, Charles A., et al. (See Guental, Ernest J., assignor.)
- Chvrolet, Louis, Plainfield, N. J. Internal-combustion engine. No. 1,318,542; Oct. 14; v. 267; p. 229.
- Chvrolet Motor Company. (See Mason, Arthur C., assignor.)
- Chiale, Joseph D. (See De Cesare and Chiale.)
- Chiaraviglio, Dino, Rome, Italy. Firearm. No. 1,297,798; Mar. 18; v. 260; p. 504.
- Chibbaro, Antonino, New York, N. Y. Music-roll protector. No. 1,311,045; July 25; v. 264; p. 656.
- Chicago Automatic Machine Company. (See Jann, John H., assignor.)
- Chicago Car Seal Company. (See Rogers, Harry R., assignor.)
- Chicago Carton Company. (See Richardson, Ralph R., assignor.)
- Chicago Carton Company. (See Walker, Paul, assignor.)
- Chicago-Cleveland Car Roofing Company. (See Hamilton, Karl M., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
- Chicago Furnace Supply Co. (See Lorenz, John M., assignor.)
- Chicago Metal Products Co. (See Kux, Albert S., assignor.)
- Chicago Metal Products Company. (See Roberts, Charles F., assignor.)
- Chicago Miniature Lamp Works. (See Gast, Adolph W., assignor.)
- Chicago Pneumatic Tool Company. (See Hutchinson, Morton C., assignor.)
- Chicago Railway Equipment Company. (See Busse and Rissler, assignors.)
- Chicago Railway Equipment Company. (See Hawkins, Arthur W., assignor.)
- Chicago Railway Equipment Company. (See Huber, Earl, assignor.)
- Chicago Railway Equipment Company. (See Williams, Charles H., assignor.)
- Chicago Railway Signal and Supply Company. (See Vogel, Eugene W., assignor.)
- Chicago Surgical & Electrical Company. (See Lidberg, Tidolf, assignor.)
- Chicherio, Eduard, Soleure, Switzerland. Pocket blotting device. No. 1,326,324; Dec. 30; v. 269; p. 742.
- Chick, Martines, San Diego, Calif. Automatic spotlight apparatus. No. 1,297,543; Mar. 18; v. 260; p. 449.
- Chicousky, Adam, Jr., Marquette, Mich. Quack-grass destroyer. No. 1,294,049; Feb. 11; v. 259; p. 282.
- Chidley, Joseph, Cleveland, Ohio, assignor to Clear Vision Windshield Company, Detroit, Mich. Wind-shield. No. 1,315,760; Sept. 9; v. 266; p. 243.
- Chige, Isidor, New York, N. Y. Dental-bridge tray. No. 1,323,832; Dec. 2; v. 269; p. 115.
- Childress, Benjamin F., Lynchburg, Va. Percolator. No. 1,315,908; Sept. 9; v. 266; p. 271.
- Childress, Hiram W., Upton, Ky. Automobile safety-fender. No. 1,320,314; Oct. 28; v. 267; p. 613.
- Childrey, William H., Haw River, N. C., assignor to Scott and Williams, Incorporated, Boston, Mass. Machine for knitting fabric sections and making fabrics having transferred sections. No. 1,306,523; June 10; v. 263; p. 274.
- Childs, Frank H., Stroud, Okla. Hose-supporter. No. 1,306,800; June 17; v. 263; p. 358.
- Childs, William L. (See Humason and Childs.)
- Childs, William L., assignor to Hughes Tool Company, Houston, Tex. Automatic pipe-coupling. No. 1,314,787; Sept. 2; v. 266; p. 58.
- Chile Exploration Company. (See Green, Leonard M., assignor.)
- Chile Exploration Company. (See Monrath, Gustav, assignor.)
- Chile Exploration Company. (See Page, William K., assignor.)
- Chile Exploration Company. (See Rose and Monrath, assignors.)
- Chilcott, William R., assignor of three-sixteenths to W. Milligan, three-sixteenths to C. W. Gray, and three-sixteenths to D. Evans, Pittsburgh, Pa. Manufacture of chains. No. 1,299,300; Apr. 1; v. 261; p. 156.
- Chilton, Henry J., Oak Park, Ill. Bottle-crowning machine. No. 1,324,645; Dec. 9; v. 269; p. 314.
- Chinnoek, George H., New York, N. Y. Core for making vehicle-tires. No. 1,319,644; Oct. 21; v. 267; p. 465.
- Chino, Domenico, assignor of one-half to A. Iovino, New York, N. Y. Instrument attachment for pianos. No. 1,318,975; Oct. 14; v. 267; p. 312.
- Chinsky, Henry. (See McGiff and Chinsky.)
- Chiodo, Joseph, Minneapolis, Minn. Trammel. No. 1,300,122; Apr. 8; v. 261; p. 368.
- Chiple, William G., Omaha, Nebr. Resilient wheel. No. 1,315,091; Sept. 2; v. 266; p. 113.
- Chiple, William G., Omaha, Nebr. Felly and tread construction for wheels. No. 1,315,092; Sept. 2; v. 266; p. 113.
- Chiple, William G., Omaha, Nebr. Felly and tread construction for wheels. No. 1,321,719; Nov. 11; v. 268; p. 321.
- Chipman, William E., Easton, Pa. Sample-display device. No. 1,321,363; Nov. 11; v. 268; p. 253.
- Chipperfield, Walter, Great Nelmcs, Hornchurch, England. Appliance for expressing the contents of compressible tubes. No. 1,295,433; Feb. 25; v. 259; p. 660.
- Chiron, Hippolyte M., Hog Island, Pa. Aeroplane. No. 1,305,524; June 3; v. 263; p. 55.
- Chisholm, Arron R., New York, N. Y. Suspensory bandage. No. 1,320,737; Nov. 4; v. 268; p. 71.
- Chism, Louis W., Plantville, assignor to The Steel Products Company, Hartford, Conn. Connecting device. No. 1,310,979; July 22; v. 264; p. 643.
- Chittim, Carl C., Tulsa, Okla. Combined adjustable chair and cot. No. 1,306,102; June 10; v. 263; p. 194.
- Chnapko, Tobias, Macdonald, Pa. Dump-car. No. 1,294,876; Feb. 18; v. 259; p. 510.
- Choate, Rufus, Washington, D. C. Folding camp-stool. No. 1,321,982; Nov. 18; v. 268; p. 420.



## Alphabetical list of patentees—Continued.

- Chodak, Frank, assignor of one-half to M. Rosenfield, New York, N. Y. Beverage-mixing device. No. 1,325,190; Dec. 16; v. 269; p. 477.
- Choffel, Charles, assignor to L. Foucaud, Paris, France. Apparatus intended to project powder. No. 1,314,387; Aug. 26; v. 268; p. 564.
- Cholewiski, Aleksander Z., and S. Majewski, Pittsburgh, Pa. Ink-bottle. No. 1,295,695; Feb. 25; v. 259; p. 721.
- Choma, John, Pittsburgh, Pa., assignor of one-half to B. Merenko, Passaic, N. J. Automatic wardrobe. No. 1,308,333; July 1; v. 264; p. 60.
- Choralcelo Company. (See Chudzikowski, Charles, assignor.)
- Chorlton, Alan E. L., Swallowbeck, Lincoln, England. Internal-combustion engine. No. 1,319,756; Oct. 28; v. 267; p. 509.
- Chorlton, Alan E. L., Swallowbeck, Lincoln, England. Internal-combustion engine. No. 1,319,757; Oct. 28; v. 267; p. 509.
- Chow, George. (See Hsieh and Chow.)
- Chretien, Henri, Nice, France. Collimating device and sighting. No. 1,311,846; July 29; v. 264; p. 838.
- Chrisman, Herbert H., and F. W. Adsit, Minneapolis, Minn., said Adsit assignor to said Chrisman. Combination-lock for automobiles. No. 1,298,177; Mar. 25; v. 260; p. 610.
- Chrisman, Horace, Edgewood, assignor to Pittsburgh Meter Company, East Pittsburgh, Pa. Wet-gas meter. No. 1,305,883; June 3; v. 263; p. 123.
- Christ, Charles, Lyndhurst, N. J. Type-form and printing-rule therefor. No. 1,320,738; Nov. 4; v. 268; p. 71.
- Christ, Charles, Lyndhurst, N. J. Ruled type-form and method of and apparatus for producing the same. No. 1,320,842; Nov. 4; v. 268; p. 91.
- Christ, Charles A., Los Angeles, Calif. Milk-can washer. No. 1,304,260; May 20; v. 262; p. 397.
- Christ, Charles A., Tempe, Ariz. Can-cover. No. 1,316,767; Sept. 23; v. 266; p. 495.
- Christen, Albert, assignor to Consolidated Shipbuilding Corporation, New York, N. Y. Ship-ventilator. No. 1,318,312; Oct. 7; v. 267; p. 125.
- Christenot, George, Weede, Mont. Water-elevating apparatus. No. 1,291,764; Jan. 21; v. 258; p. 471.
- Christensen, Carl J., Rockford, Ill. Universal joint. No. 1,323,451; Dec. 2; v. 269; p. 43.
- Christensen, Eben R., Chicago, Ill. Wrapper. No. 1,296,765; Mar. 11; v. 260; p. 250.
- Christensen, Jens P. (See Keenan, Christensen, and Ruemelin.)
- Christensen Machine Company. (See Christensen, Martin, assignor.)
- Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Conveyor for book-stitching machines. No. 1,296,047; Mar. 4; v. 260; p. 53.
- Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Conveyor for book-stitching machines. No. 1,297,322; Mar. 18; v. 260; p. 403.
- Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Signature-handling device. No. 1,297,444; Mar. 18; v. 260; p. 428.
- Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Stitcher drive and control mechanism. No. 1,314,503; Sept. 2; v. 266; p. 5.
- Christensen, Martin J., assignor of one-half to F. B. Sebolt, Chicago, Ill. Safety device for ships. No. 1,307,040; June 17; v. 263; p. 403.
- Christensen, Niels A., Milwaukee, Wis. Brake mechanism for automobiles and similar vehicles. No. 1,291,765; Jan. 21; v. 258; p. 471.
- Christensen, Niels C., assignor to Metallurgic Improvement Corporation, Salt Lake City, Utah. Treating copper ores by lixiviation with an SO<sub>2</sub> solution. No. 1,316,351; Sept. 16; v. 266; p. 368.
- Christensen, Niels C., assignor to Metallurgic Improvement Corporation, Salt Lake City, Utah. Treating copper ores by sulfatization and flotation. No. 1,316,352; Sept. 16; v. 266; p. 368.
- Christensen, Richard M., New York, N. Y. Automatic course and deviation finder. No. 1,311,641; July 29; v. 264; p. 800.
- Christensen, Sverre, Astoria, Oreg. Non-refillable bottle. No. 1,309,394; July 8; v. 264; p. 284.
- Christensen, Tyvald, Port Richmond, N. Y. Motor-bicycle. No. 1,308,022; July 1; v. 264; p. 3.
- Christenson, George, Jamaica, N. Y., assignor to H. W. Johns-Manville Company. Piston-packing. No. 1,320,675; Nov. 4; v. 268; p. 59.
- Christenson, Sigward L. (See Baldwin and Christenson.)
- Christian, Arthur R., Huddersfield, England. Machine for trimming molded articles. No. 1,301,651; Apr. 22; v. 261; p. 746.
- Christian, Herbert W., Detroit, Mich. Combined curling-iron and water-bottle heater. No. 1,292,402; Jan. 21; v. 258; p. 627.
- Christian, Herbert W., Detroit, Mich. Rheostat. No. 1,292,403; Jan. 21; v. 258; p. 627.
- Christian, Herbert W., Detroit, Mich. Combined water heater and dripper. No. 1,302,309; Apr. 29; v. 261; p. 903.
- Christian, John H. N., Montreal, Quebec, Canada. Water-heating attachment for stoves. No. 1,316,940; Sept. 23; v. 266; p. 526.
- Christian, Thomas A., assignor of one-third to F. A. Stewart and one-third to L. F. Long, Merced Falls, Calif. Bolt-extractor. No. 1,299,915; Apr. 8; v. 261; p. 323.
- Christiani, Emile F., Washington, D. C. Valve-gear. No. 1,298,008; Mar. 25; v. 260; p. 574.
- Christiania Traadstiftfabrik. (See Lund, Ole H., assignor.)
- Christians, George W., Brooklyn, assignor to T. E. Murray, New York, N. Y. Gage for objects of circular cross-section. No. 1,290,910; Jan. 14; v. 258; p. 241.
- Christiansen, Christian, Sioux Falls, S. D. Harrow attachment. No. 1,294,235; Feb. 11; v. 259; p. 326.
- Christiansen, Christian, Sioux Falls, S. D. Grain-shock machine. No. 1,295,271; Feb. 25; v. 259; p. 623.
- Christiansen, Jens A., Copenhagen, Denmark. Producing methyl alcohol from alkyl formates. No. 1,302,011; Apr. 29; v. 261; p. 847.
- Christiansen, Rasmus, Black Diamond, Wash. Breast-car for mines. No. 1,294,619; Feb. 18; v. 259; p. 449.
- Christianson, Andrew, Butler, Pa., assignor to Standard Steel Car Company, Pittsburgh, Pa. Steel box-car. No. 1,293,708; Feb. 11; v. 259; p. 201.
- Christie, Alexander, Newcastle, New South Wales, Australia. Piercing and decanting device for sheet-metal liquid-containers. No. 1,308,839; July 8; v. 264; p. 180.
- Christie, Charles G. C., Strathfield, near Sydney, New South Wales, Australia. Sealed container to facilitate the opening thereof. No. 1,302,132; Apr. 29; v. 261; p. 869.
- Christie Combination Auto Lock Co. (See Christie, John E., assignor.)
- Christie, Elza J., Marion, Iowa. Unicycle. No. 1,290,087; Jan. 7; v. 258; p. 18.
- Christie, Evi W., Seward, assignor to Wheeler Condenser and Engineering Company, Carteret, N. J. Condensing apparatus. No. 1,323,013; Nov. 25; v. 268; p. 666.
- Christie, Harold N. C., Point Pleasant, N. J. Safety signaling appliance. No. 1,317,429; Sept. 30; v. 266; p. 655.
- Christie, John A. (See Smith, Edward S., assignor.)
- Christie, John E., assignor to Christie Combination Auto Lock Co., Salt Lake City, Utah. Safety-lock for automobiles. No. 1,324,034; Dec. 9; v. 269; p. 197.
- Christie, Lindsay R., Pittsburgh, Pa. Drier. No. 1,318,133; Oct. 7; v. 267; p. 90.
- Christie, Robert, San Francisco, Cal. Aeroplane. No. 1,295,272; Feb. 25; v. 259; p. 623.
- Christie, Walter, Weehawken, N. J. Motor-driven gun-carriage. No. 1,297,445; Mar. 18; v. 260; p. 428.
- Christie, Walter, Weehawken, N. J. Ladder-truck. No. 1,311,552; July 29; v. 264; p. 784.
- Christmas Club. (See Rawll, Herbert F., assignor.)
- Christoffel, John, Edmonton, Alberta, Canada. Animal-releasing device. No. 1,294,400; Feb. 18; v. 259; p. 399.
- Christoffer Hannevig and Hannevig Brothers, A/S. (See Schröder-Nielsen, Thoralf, assignor.)
- Christoph, Edward A., assignor to J. W. Eloy, Chicago, Ill. Building-blocks. No. 1,307,331; June 17; v. 263; p. 455.
- Christoph, George W., Warehouse Point, Conn. Carbureting apparatus. No. 1,314,046; Aug. 26; v. 265; p. 498.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Combining pile-feeder. No. 1,301,543; Apr. 22; v. 261; p. 726.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Pneumatic sheet-feeder. No. 1,304,262; May 20; v. 262; p. 398.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,320,203; Oct. 28; v. 267; p. 592.
- Christopher, Anthony J., Baldwinsville, N. Y. Wire-fastening device. No. 1,307,240; June 17; v. 263; p. 438.
- Christopher, George W. (See Spaulding, Franklin, assignor.)
- Christopher, Giles V., Rocky, Okla. No. 1,293,336; Feb. 4; v. 259; p. 84.
- Christopher, William B., Rahway, N. J. Marine propeller. No. 1,293,035; Feb. 4; v. 259; p. 15.
- Christopher, William M., Amsterdam, N. Y. Adjustable storm and light shield. No. 1,309,352; July 8; v. 264; p. 276.
- Christopherson, William G., Detroit, Mich., assignor to M. Wright. Forming annular articles. No. 1,322,760; Nov. 25; v. 268; p. 618.
- Christy, Frank W., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. No. 1,315,211; Sept. 9; v. 266; p. 145.
- Christy, Loyd E., Monticello, Ind. Door latch and lock. No. 1,312,160; Aug. 5; v. 265; p. 58.
- Chromy, George, Stewart, Minn. Device for removing overshoes. No. 1,290,911; Jan. 14; v. 258; p. 242.
- Chromy, George, Stewart, Minn. Hitching device. No. 1,305,884; June 3; v. 263; p. 124.



- Chronic, Hugh W., Sandpoint, Idaho. Window-lock. No. 1,318,965; Oct. 14; v. 267; p. 310.
- Chrul, Teofil J., Baltimore, Md. Amusement device. No. 1,320,124; Oct. 28; v. 267; p. 278.
- Chryst, William A. (See Kettering and Chryst.)
- Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine starting system. No. 1,306,137; June 10; v. 263; p. 201.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Alloy. No. 1,291,408; Jan. 14; v. 258; p. 357.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vacuum-pump. No. 1,298,664; Apr. 1; v. 261; p. 9.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Tertiary coils for transformers. No. 1,298,665; Apr. 1; v. 261; p. 10.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic cell. No. 1,305,443; June 3; v. 263; p. 40.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Liquid-heating method and apparatus. No. 1,308,040; July 1; v. 264; p. 6.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Method of and apparatus for producing asymmetric potential waves. No. 1,308,041; July 1; v. 264; p. 7.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupting system. No. 1,320,125; Oct. 28; v. 267; p. 578.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor-converter system. No. 1,323,247; Dec. 2; v. 269; p. 5.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Harmonic analyzer. No. 1,323,349; Dec. 2; v. 269; p. 24.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic apparatus. No. 1,324,797; Dec. 16; v. 269; p. 405.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,295,853; Mar. 4; v. 260; p. 8.
- Chubb, Lewis W., Edgewood Park, and R. D. Brown, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Determining melting-points. No. 1,291,409; Jan. 14; v. 258; p. 357.
- Chubb and Son's Lock and Safe Company. (See Butter, Francis J., assignor.)
- Chudzikowski, Charles, Cambridge, assignor to Choralcelo Company, Boston, Mass. Electric musical instrument. No. 1,322,229; Nov. 18; v. 268; p. 467.
- Chumbley, John E., Nashville, Tenn. Automobile-jack. No. 1,307,080; June 17; v. 263; p. 410.
- Chung, Kun S., Honolulu, Hawaii. Game apparatus. No. 1,305,341; June 3; v. 263; p. 21.
- Church, Albert E., New Britain, Conn. Chuck. No. 1,314,126; Aug. 26; v. 265; p. 514.
- Church, Albert E., New Britain, Conn. Chuck. No. 1,315,467; Sept. 9; v. 266; p. 192.
- Church, Edmund S., Chicago, Ill. Curtain-fastener. No. 1,306,524; June 10; v. 263; p. 274.
- Church, Edmund S., assignor to Automatic Carburetor Co., Chicago, Ill. Curtain-fastener. No. 1,298,666; Apr. 1; v. 261; p. 10.
- Church, Edmund S., assignor to Automatic Carburetor Company, Chicago, Ill. Fastener. No. 1,298,892; Apr. 1; v. 261; p. 63.
- Church, Edmund S., assignor to Automatic Carburetor Company, Chicago, Ill. Fuel-regulating device for explosive-engines. No. 1,308,145; July 1; v. 264; p. 25.
- Church, Edmund S., assignor to Automatic Carburetor Company, Chicago, Ill. Fastener. No. 1,308,146; July 1; v. 264; p. 26.
- Church, Frederick A. (See Prior and Church.)
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,293,709; Feb. 11; v. 259; p. 201.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,293,710; Feb. 11; v. 259; p. 201.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Gear mechanism. No. 1,293,711; Feb. 11; v. 259; p. 201.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,293,712; Feb. 11; v. 259; p. 202.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,305,061; May 27; v. 262; p. 588.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Gear-shifting mechanism. No. 1,305,063; May 27; v. 262; p. 588.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle radiator. No. 1,314,788; Sept. 2; v. 266; p. 59.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,318,356; Oct. 14; v. 267; p. 193.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Gear-shifting mechanism. No. 1,321,087; Nov. 11; v. 268; p. 201.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,321,088; Nov. 11; v. 268; p. 201.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,321,808; Nov. 18; v. 268; p. 388.
- Church, Henry W., St. Paul, Minn. Anticreeper tie-plate. No. 1,291,410; Jan. 14; v. 258; p. 357.
- Church, Ira, Muskegon, assignor of one-half to L. Sanford, Reed City, Mich. Wrench. No. 1,293,391; Dec. 30; v. 269; p. 754.
- Church, Walter L., Humble, Tex. Sample-taking device. No. 1,300,346; Apr. 15; v. 261; p. 443.
- Church, William L., Newton, assignor to The Uni-Form Company, Boston, Mass. Apparatus for constructing concrete floors and walls. No. 1,293,036; Feb. 4; v. 259; p. 15.
- Churchill, Grant W., Sacramento, Calif. Fluid-pressure transmission mechanism. No. 1,298,178; Mar. 25; v. 260; p. 610.
- Churchill, James R., Sheffield, England. Vehicle-wheel. No. 1,299,301; Apr. 1; v. 261; p. 156.
- Churchill, Lawrence R. and W. W. Doland, S. D. Barner construction. No. 1,295,124; Feb. 25; v. 269; p. 590.
- Churchill, Walter W. (See Churchill, Lawrence R. and W. W.)
- Churchill, William, New York, assignor to Corning Glass Works, Corning, N. Y. Headlight-cover glass. No. 1,312,950; Aug. 12; v. 265; p. 239.
- Churchill, William, and E. Pascucci, assignors to Corning Glass Works, Corning, N. Y. Lens. No. 1,307,579; June 24; v. 263; p. 533.
- Churchill, William L., White Plains, N. Y. Electric rivet-heater. No. 1,326,479; Dec. 30; v. 269; p. 771.
- Chuse Engine & Mfg. Company. (See Chuse, Harry A., assignor.)
- Chuse, Harry A., assignor to Chuse Engine & Mfg. Company, Mattoon, Ill. Steam-engine. No. 1,293,713; Feb. 11; v. 259; p. 202.
- Chute, Burpie E., Tucson, Ariz. Cushion-tire for vehicles. No. 1,309,460; July 8; v. 264; p. 296.
- Chute, Douglas L., Berwick, Nova Scotia, Canada. Toy water-motor. No. 1,294,050; Feb. 11; v. 259; p. 282.
- Chute, George G., Portland, Oreg. Mixer for gas-engines. No. 1,318,005; Oct. 7; v. 267; p. 65.
- Chute, Richard B., Jr., Huntington, N. Y. Clamp. No. 1,299,822; Apr. 8; v. 261; p. 303.
- Chvojka, Joseph, Philadelphia, Pa. Vehicle-fender. No. 1,297,544; Mar. 18; v. 260; p. 449.
- Ciancaglini, Rudolph J., Philadelphia, Pa. Disinfectant apparatus. No. 1,307,535; June 24; v. 263; p. 525.
- Ciapiak, Jozef, Buffalo, N. Y. Milk-boiler. No. 1,317,552; Sept. 30; v. 266; p. 679.
- Cibulas, Stephen E., Bridgeport, Conn. Window-operating mechanism. No. 1,292,706; Jan. 28; v. 258; p. 723.
- Cibulka, George A., St. Louis, Mo. Collapsible box. No. 1,322,290; Nov. 18; v. 268; p. 478.
- Ciglia, Ernest F., and L. F. Pelletier, New York, N. Y., assignors, by mesne assignments, to E. & E. Carburetor Company, Inc. Carburetor. (Reissue.) No. 14,658; June 10; v. 263; p. 304.
- Cignarella, Andrea. (See Evangelista, Dugo, and Cignarella.)
- Ciha, Edward E., Chicago, Ill. Micrometer-gage. No. 1,318,726; Oct. 14; v. 267; p. 264.
- Cinch Expansion Bolt & Engineering Company. (See Rohmer, Gabriel E., assignor.)
- Cincinnati Blackford Tool Company, The. (See Norris, Henry M., assignor.) (Reissue.)
- Cincinnati Butchers' Supply Company, The. (See Schmidt, Naegelen, and Kornmann, assignors.)
- Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
- Cincinnati Milling Machine Company, The. (See Hazelton, Robert T., assignor.)
- Cipolla, Joseph, Philadelphia, Pa. Spring bed-bottom. No. 1,312,612; Aug. 12; v. 265; p. 174.
- Cipolla, Joseph, Philadelphia, Pa. Fabric bed-bottom. No. 1,317,000; Sept. 23; v. 266; p. 538.
- Cirelli, Francesco, Philadelphia, Pa. Sound-reproducing machine. No. 1,302,900; May 6; v. 262; p. 81.
- Cirelli, Francesco, Philadelphia, Pa. Lid-supporting member. No. 1,306,846; June 17; v. 263; p. 366.
- Cirelli, Francesco, Philadelphia, Pa. Sound-box. No. 1,314,127; Aug. 26; v. 265; p. 514.
- Cirelli, Francesco, Philadelphia, Pa. Sound-reproducing machine. No. 1,324,306; Dec. 9; v. 269; p. 249.
- Cirelli, Francesco, Philadelphia, Pa. Sound-reproducing machine. No. 1,326,709; Dec. 30; v. 269; p. 814.
- Cisco, George W. (See MacKay and Cisco.)
- Cisor, Benjamin F., Los Angeles, Calif. Sanitary-seat-shield cntter. No. 1,320,602; Nov. 4; v. 268; p. 46.
- Cite, Joseph D., assignor to International Clay Machinery Co., Dayton, Ohio. Axle-bearing. No. 1,290,511; Jan. 7; v. 258; p. 120.



## Alphabetical list of patentees—Continued.

- Cities Illuminating Co., The. (See Passano, Leonard, assignor.)
- Cities Illuminating Company. (See Vincent, Sidney C., assignor.)
- Citron, Pincus, New York, N. Y. Shoe-protector. No. 1,311,046; July 22; v. 264; p. 656.
- City Trust Company. (See Porzel, Joseph, assignor.)
- Civalier, Napoleon I., Boise, Idaho. Shoe-protector. No. 1,294,401; Feb. 18; v. 259; p. 399.
- Ciz, Dmitro, Daysland, Alberta, Canada. Flash-light pin. No. 1,316,687; Sept. 23; v. 266; p. 480.
- Cizek, Luda, Detroit, Mich. Non-capsizing lifeboat. No. 1,326,575; Dec. 30; v. 269; p. 790.
- Clair, James J. (See Fulgora, Fred, assignor.)
- Clancy, Patrick J., Boston, Mass. Boat-releasing device. No. 1,314,947; Sept. 2; v. 266; p. 86.
- Clapham, Thomas H., Pittsburg, Kans. Valve. No. 1,296,480; Mar. 4; v. 260; p. 148.
- Clapp, Albert L., Braintree, assignor to The Metalite Company, Amesbury, Mass. Gun-wad felt and making. No. 1,302,512; May 6; v. 262; p. 7.
- Clapp, Albert L., Marblehead, assignor to The Metalite Company, Amesbury, Mass. White leather-board and making same. No. 1,302,513; May 6; v. 262; p. 7.
- Clapp, Albert L., Marblehead, assignor to The Metalite Company, Amesbury, Mass. Waterproofing sheet material. No. 1,312,682; Aug. 12; v. 265; p. 187.
- Clapp, Albert L., Marblehead, assignor to R. W. Bird, Framingham, Mass. Felt and making the same. No. 1,305,770; June 3; v. 263; p. 102.
- Clapp, Roger H., Philadelphia, Pa. Reinforcing means for angle-cocks. No. 1,309,395; July 8; v. 264; p. 284.
- Clapp, William S., Whittles Depot, Va. Damper. No. 1,317,614; Sept. 30; v. 266; p. 692.
- Clar, Mottel, Fort Morgan, Colo. Radiator. No. 1,316,425; Sept. 16; v. 266; p. 382.
- Clardy, George D., New York, N. Y., assignor of one-third to N. T. Whitaker and one-tenth to R. E. B. Wakefield, Washington, D. C. Camera. No. 1,318,966; Oct. 14; v. 267; p. 311.
- Clare, William C., Oswego, N. Y. Henhouse. No. 1,320,204; Oct. 28; v. 267; p. 592.
- Claremont, Ernest A. (See Beaver and Claremont.)
- Claremont, Ernest A. (See Beaver, Richards, and Claremont.)
- Claremont, Ernest A. (See Stratton and Claremont.)
- Claremont, Ernest A. (See Tanner and Claremont.)
- Claremont Machinery Company. (See Gilman, George H., assignor.)
- Clarinda Lawn Mower Company. (See Toll, Herman H., assignor.)
- Clark, Albert C., Chicago, Ill. Anesthetic apparatus. No. 1,302,133; Apr. 29; v. 261; p. 870.
- Clark, Alfred L., Dubuque, Iowa. Roller-awning. No. 1,302,633; May 6; v. 262; p. 29.
- Clark, Annie M., St. Cloud, Minn. Cook-book. No. 1,309,594; July 8; v. 264; p. 322.
- Clark, Arthur E., Villard, Minn. Crank-holder for explosive-engines. No. 1,292,256; Jan. 21; v. 258; p. 593.
- Clark, Arthur I. (See King, Clifford G., assignor.)
- Clark, Arthur J., Traverse City, Mich. Hose-coupling. No. 1,296,481; Mar. 4; v. 260; p. 148.
- Clark, Arthur J., Bath, Mich. Funnel. No. 1,323,154; Nov. 25; v. 268; p. 692.
- Clark, Arthur T., Saranac Lake, N. Y. Radiator. No. 1,313,518; Aug. 19; v. 265; p. 365.
- Clark, Bennett F., assignor to The Carborundum Company, Niagara Falls, N. Y. Grinding-machine. No. 1,314,304; Aug. 26; v. 265; p. 548.
- Clark, Bertha, Brooklyn, N. Y. Shoe-hanger. No. 1,310,281; July 15; v. 264; p. 484.
- Clark, Bradford A., Slocum, R. I. Yarn-feeding mechanism for looms. No. 1,307,241; June 17; v. 263; p. 438.
- Clark, Carlos N., South Orange, N. J. Sweat-band sticker, marker, and finisher. No. 1,296,766; Mar. 11; v. 260; p. 251.
- Clark, Carlos, Ouray, Utah. Lubricating devices. No. 1,303,772; May 13; v. 262; p. 269.
- Clark, Charles C. (See Newland, Albert E., assignor.)
- Clark, Charles E. (See Sparks and Clark.)
- Clark, Charles H., Crafton, Pa. Dump-car-door-operating device. No. 1,294,051; Feb. 11; v. 259; p. 282.
- Clark, Charles H., New York, N. Y. Flexible coupling. No. 1,303,853; May 20; v. 262; p. 323.
- Clark, Charles H., New York, N. Y. Coupling. No. 1,310,002; July 15; v. 264; p. 434.
- Clark, Charles H., Cleveland, Ohio, E. W. Jansen, New York, and C. F. Gallor, Brooklyn, assignors to Atlantic Welding Corporation, New York, N. Y. Expansion rail-joint. No. 1,301,104; Apr. 22; v. 261; p. 640.
- Clark, Charles M., Boston, Mass. Collapsible wheel. No. 1,308,660; July 1; v. 264; p. 119.
- Clark, Chester E., New York, N. Y. Cloth-cutter. No. 1,309,317; July 8; v. 264; p. 270.
- Clark, Christopher T., East Shore Park, Minn. Flat-surface-pressure device. No. 1,312,518; Aug. 12; v. 265; p. 155.
- Clark and Coombs Company. (See Gibbs and Atkinson, assignors.)
- Clark, Cornelius S., Norfolk, Va. Marine way. No. 1,316,881; Sept. 23; v. 266; p. 507.
- Clark, Cuyler L., Zanesville, Ohio. Convertible shield for troops. No. 1,304,541; May 27; v. 262; p. 491.
- Clark, Daniel E., assignor to The Barrett Company, Boston, Mass. Sole for shoes and other footwear and making same. No. 1,293,037; Feb. 4; v. 259; p. 15.
- Clark, David P. (See Black, Charles F., assignor.)
- Clark, Don A. (See Koren and Clark.)
- Clark, Don A., and C. E. Lowe, assignors to The Clyde E. Lowe Company, Cleveland, Ohio. Tire-core. No. 1,303,256; May 13; v. 262; p. 176.
- Clark, Don A., and C. E. Lowe, assignors to The Clyde E. Lowe Company, Cleveland, Ohio. Making sheet-metal tire-cores. No. 1,316,272; Sept. 16; v. 266; p. 353.
- Clark, Don A., and C. E. Lowe, assignors to The Clyde E. Lowe Company, Cleveland, Ohio. Manufacturing mandrels for pneumatic tires. No. 1,316,273; Sept. 16; v. 266; p. 353.
- Clark, Don A., and C. E. Lowe, assignors to The Clyde E. Lowe Company, Cleveland, Ohio. Tire-forming mandrel. No. 1,316,274; Sept. 16; v. 266; p. 353.
- Clark, Don A., and C. E. Lowe, assignors to The Clyde E. Lowe Company, Cleveland, Ohio. Mandrel for pneumatic-tire tubes. No. 1,316,275; Sept. 16; v. 266; p. 354.
- Clark, Don A., and C. E. Lowe, assignors to The Clyde E. Lowe Company, Cleveland, Ohio. Mandrel for pneumatic-tire manufacture. No. 1,316,276; Sept. 16; v. 266; p. 354.
- Clark, Earl W., Sharon, Pa. Vehicle. No. 1,303,854; May 20; v. 262; p. 323.
- Clark, Edgar H. (See Lundell and Clark.)
- Clark, Edgar H., assignor to Western Electric Company, Incorporated, New York, N. Y. Multi-office telephone-exchange system. No. 1,292,257; Jan. 21; v. 258; p. 594.
- Clark, Edna P., administratrix. (See Clark, Gilbert E.)
- Clark, Edward S., et al. (See Velo, Anthony, assignor.)
- Clark, Edwin W., Kansas City, Mo., assignor to Photo Motion Company. Mechanical movement for motion-picture machines. No. 1,304,854; May 27; v. 262; p. 549.
- Clark, Edwin W., Kansas City, Mo., assignor to Photo Motion Company. Shutter for motion-picture-projecting machines. No. 1,312,722; Aug. 12; v. 265; p. 195.
- Clark, Ellef S., Marshall, Cal. Nut-lock. No. 1,292,707; Jan. 28; v. 258; p. 723.
- Clark, Elmer A., Joliet, Ill. Dough-dividing machine. No. 1,314,245; Aug. 26; v. 265; p. 537.
- Clark, Emerson L., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Brush-holder. No. 1,293,038; Feb. 4; v. 259; p. 15.
- Clark, Emerson L., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Pyrometer. No. 1,312,951; Aug. 12; v. 265; p. 240.
- Clark Equipment Company. (See Burrows, Robert J., assignor.)
- Clark Equipment Company. (See Williams, Alfred O., assignor.)
- Clark, Ernest W., assignor to The Sigourney Tool Company, Hartford, Conn. Bench-drills. No. 1,322,543; Nov. 25; v. 268; p. 578.
- Clark, Ezra E., Newtonville, Mass. Dry-pipe valve. No. 1,300,698; Apr. 15; v. 261; p. 517.
- Clark, Ezra E., Newtonville, Mass. Sprinkler-head. No. 1,318,543; Oct. 14; v. 267; p. 230.
- Clark, Ezra E., Newtonville, assignor to Fire Protection Securities Company, Boston, Mass. Dry-pipe valve. No. 1,291,411; Jan. 14; v. 258; p. 358.
- Clark, Frank J., assignor of one-half to J. C. Arthur, Milwaukee, Wis. Expression-controlling device for pneumatic players. No. 1,315,212; Sept. 9; v. 266; p. 145.
- Clark, Fred P., assignor of one-half to J. P. Coffin, Seattle, Wash. Focusing-finder attachment for cameras. No. 1,301,819; Apr. 29; v. 261; p. 810.
- Clark Gate Co. (See Clark, James R., assignor.)
- Clark, George C., Everett, Wash. Vacuum-feed for oil-engines. No. 1,309,718; July 15; v. 264; p. 381.
- Clark, George C., Detroit, Mich., assignor to George C. Clark Metal Last Co., Mishawaka, Ind. Centrifugal casting-box. No. 1,300,123; Apr. 8; v. 261; p. 369.
- Clark, George E. (See Burnham, Lewis H., assignor.)
- Clark, George F. (See Atkinson and Clark.)
- Clark, George H. (See Humphrey, John D., assignor.)
- Clark, George H., Cambridge, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Spring. No. 1,308,165; July 1; v. 264; p. 29.
- Clark, George H., Washington, D. C., assignor to Marconi Wireless Telegraph Company of America. Adjustment of wave lengths. No. 1,323,155; Nov. 25; v. 268; p. 692.
- Clark, George L. (See Holden and Clark.)
- Clark, George W., Oak Park, Ill. Combined coal and gas range. No. 1,301,906; Apr. 29; v. 261; p. 827.
- Clark, Gilbert E., deceased, Dayton, Ohio; E. P. Clark, administratrix. Farm-tractor. No. 1,293,714; Feb. 11; v. 259; p. 202.
- Clark, Henry F., Oakmont, assignor to Window Glass Machine Company, Pittsburgh, Pa. Glass-drawing bait. No. 1,324,229; Dec. 9; v. 269; p. 234.



- Clark, Hervey D., Decatur, Ill. Attachment for head-wear. No. 1,296,366; Mar. 4; v. 260; p. 124.
- Clark, Ira M., Pittsburgh, Pa., assignor to The New Martinsville Glass Manufacturing Company, New Martinsville, W. Va. Lens. No. 1,315,283; Sept. 9; v. 266; p. 158.
- Clark, James B. (See Niess-Waner, Edwin G., assignor.)
- Clark, James B., New York, N. Y., assignor to A. W. Mackintosh, Elizabeth, N. J. Physician's straddle-stand. No. 1,308,661; July 1; v. 264; p. 120.
- Clark, James H., assignor of one-half to J. F. Kleaver, Washington, D. C. Closure for pockets. No. 1,310,282; July 15; v. 264; p. 484.
- Clark, James R., assignor to Clark Gate Co., Lexington, Ky. Gate. No. 1,297,099; Mar. 11; v. 260; p. 326.
- Clark, John M., Whitestone, N. Y. Power-generating plant. No. 1,315,595; Sept. 9; v. 266; p. 214.
- Clark, John T., Provo, Utah. Vehicle-wheel tire. No. 1,316,766; Sept. 23; v. 266; p. 495.
- Clark, John T., Provo, Utah. Necktie-holder. No. 1,318,846; Oct. 14; v. 267; p. 287.
- Clark, John T., Provo, Utah. Tire-holding means. No. 1,319,991; Oct. 28; v. 267; p. 553.
- Clark, John T., Jr., Brooklyn, N. Y. Faucet. No. 1,320,446; Nov. 4; v. 268; p. 17.
- Clark, Julian W., North Warren, assignor to The Bashlin Company, Warren, Pa. Valve. No. 1,324,385; Dec. 9; v. 269; p. 244.
- Clark, Kenneth S. (See Clark, Samuel S., assignor.)
- Clark, Lawrence G. (See Stekelberg, Fred C., assignor.)
- Clark, Leigh. (See Brown, Archie E., assignor.)
- Clark, Leigh. (See Ochoa, Victor L., assignor.)
- Clark, Leon D., Avant, Okla. Tool. No. 1,321,364; Nov. 11; v. 268; p. 254.
- Clark, Lester P., Fanwood, assignor of one-half to A. L. Stebor, Jr., Plainfield, N. J. Monkey-wrench. No. 1,308,840; July 8; v. 264; p. 181.
- Clark, Lester P., Fanwood, assignor of one-half to A. L. Stebor, Jr., Plainfield, N. J. Blow-out patch. No. 1,310,156; July 15; v. 264; p. 461.
- Clark, Lester P., Fanwood, assignor of one-half to A. L. Stebor, Jr., Plainfield, N. J. Game. No. 1,310,390; July 15; v. 264; p. 504.
- Clark, Lincoln, Pasadena, Calif. Furnace. No. 1,317,553; Sept. 30; v. 266; p. 679.
- Clarke, Louis S., Haverford, Pa. Explosive projectile. No. 1,320,447; Nov. 4; v. 268; p. 17.
- Clark, MacMullen & Riley. (See Riley, Champlain L., assignor.)
- Clark Mailing Machine Company. (See Ditmars, Frederick R. S., assignor.)
- Clark, Marion H., Philadelphia, Pa. Machine for applying samples to cards. No. 1,304,943; May 27; v. 262; p. 565.
- Clark, Mason E., Seattle, Wash. Device for laying out pipe-flanges. No. 1,314,184; Aug. 26; v. 265; p. 525.
- Clark, Melville, assignor to Melville Clark Piano Company, Chicago, Ill. Governor for air-motors. No. 1,298,291; Mar. 25; v. 260; p. 635.
- Clark, Melville, assignor to Melville Clark Piano Company, Chicago, Ill. Exhaust device for air-motor-operated player-pianos. No. 1,298,292; Mar. 25; v. 260; p. 635.
- Clark, Melville, Chicago, Ill., assignor to Melville Clark Piano Company. Combined player-piano and phonograph. No. 1,306,847; June 17; v. 263; p. 367.
- Clark, Myron H., Hastings-upon-Hudson, N. Y., assignor to Goodyear's Metallic Rubber Shoe Company. Rubber-sole canvas shoe. No. 1,193,337; Feb. 4; v. 259; p. 84.
- Clark, Myron H., Hastings-upon-Hudson, N. Y., assignor to The Goodyear's Metallic Rubber Shoe Company. Shoe. No. 1,301,228; Apr. 22; v. 261; p. 666.
- Clark, Myron H., Hastings-upon-Hudson, N. Y., assignor to Boston Rubber Shoe Company. Producing rubber soles for boots and shoes. No. 1,319,032; Oct. 14; v. 267; p. 323.
- Clark, Myron H., Pelham, N. Y., assignor to Boston Rubber Shoe Company. Rubber soles for boots and shoes. No. 1,318,645; Oct. 14; v. 267; p. 249.
- Clark, Nelson D., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,316,426; Sept. 16; v. 266; p. 382.
- Clark, Nelson D., assignor to Union Special Machine Company, Chicago, Ill. Overseaming-machine. No. 1,324,541; Dec. 9; v. 269; p. 295.
- Clark, Norris E., Plainville, Conn. Corner-bead. No. 1,308,773; July 8; v. 264; p. 168.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee, New York, N. Y. Corner-bead construction. No. 1,308,889; July 8; v. 264; p. 190.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee. Metal fabric. No. 1,309,241; July 8; v. 264; p. 256.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee. Expanded-metal reinforcement. No. 1,309,242; July 8; v. 264; p. 256.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee, New York, N. Y. Expanded-metal machine. No. 1,314,504; Sept. 2; v. 266; p. 5.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee, New York, N. Y. Expanded-metal machine. No. 1,314,505; Sept. 2; v. 266; p. 5.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee, New York, N. Y. Expanded-metal machine. No. 1,314,506; Sept. 2; v. 266; p. 6.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee, New York, N. Y. Expanded-metal machine. No. 1,314,507; Sept. 2; v. 266; p. 6.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee, New York, N. Y. Expanded-metal manufacture. No. 1,321,089; Nov. 11; v. 268; p. 201.
- Clark, Norris E., Plainville, Conn., assignor to R. S. Allyn, trustee, New York, N. Y. Expanded-metal machine. No. 1,321,090; Nov. 11; v. 268; p. 201.
- Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,314,246; Aug. 26; v. 265; p. 537.
- Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Lubricator. No. 1,318,646; Oct. 14; v. 267; p. 249.
- Clark, Oscar F. (See Searl and Clark.)
- Clark, Paul E., Algona, Iowa. Road-scraper. No. 1,290,088; Jan. 7; v. 258; p. 18.
- Clark, Paul R., Corydon, Iowa. Ventilating device. No. 1,326,576; Dec. 30; v. 269; p. 790.
- Clark, Raleigh, et al. (See Rettig, Clarence N., assignor.)
- Clark, Raymond P., Rochester, N. Y. Cover. No. 1,299,127; Apr. 1; v. 261; p. 116.
- Clark, Robert C., Winnipeg, Manitoba, Canada. Roofing-clip. No. 1,297,323; Mar. 18; v. 260; p. 404.
- Clark, Robert G., Brooklyn, N. Y. Shock-absorber. No. 1,290,912; Jan. 14; v. 258; p. 242.
- Clark, Roland H., Zanon, Va. Flying target. No. 1,317,958; Oct. 7; v. 267; p. 56.
- Clark, Samuel A., Seattle, Wash. Table opening and closing device. No. 1,307,808; June 24; v. 263; p. 575.
- Clark, Samuel I., Joliet, Pa. Nut-lock. No. 1,293,338; Feb. 4; v. 259; p. 84.
- Clark, Samuel S., Singac, assignor to K. S. Clark, Little Falls, N. J. Pie-handler. No. 1,309,063; July 8; v. 264; p. 223.
- Clark, Sherman W., Wapato, Wash. Spring-seat. No. 1,305,771; June 3; v. 263; p. 102.
- Clark, Thomas E., Detroit, Mich., and M. H. Hovey, Madison, Wis., assignors to H. W. Beggs, Vincennes, Ind. Speed-controller. No. 1,292,708; Jan. 28; v. 258; p. 723.
- Clark, Thomas E., Detroit, Mich., and M. H. Hovey, Madison, Wis., assignors to H. W. Beggs, Vincennes, Ind. Electric contact device for railway-vehicles. No. 1,297,324; Mar. 18; v. 260; p. 404.
- Clark, Thomas P., Highland Park, Ill. Pipe-tap. No. 1,294,052; Feb. 11; v. 259; p. 282.
- Clark, Vincent W., Douglas, Ariz. Case for funnels. No. 1,296,624; Mar. 11; v. 260; p. 217.
- Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Colling apparatus. No. 1,291,669; Jan. 14; v. 258; p. 419.
- Clark, Warren F., Cleveland, Ohio, assignor to The Steam Electric Products Company. Heating device. No. 1,322,761; Nov. 25; v. 268; p. 619.
- Clark, William H., and G. B. Prettyman, Springfield, Oreg. Fastening device. No. 1,292,846; Dec. 30; v. 269; p. 841.
- Clark, William J., Detroit, Mich. Necktie. No. 1,295,696; Feb. 25; v. 259; p. 722.
- Clark, William M. (See Sparks and Clark.)
- Clark, William R., assignor of one-half to W. Martin, Seattle, Wash. Gas-operated gun. No. 1,308,016; June 24; v. 263; p. 614.
- Clark, Wycliffe L., assignor to Keeler Brass Company, Grand Rapids, Mich. Hinge-post. No. 1,325,078; Dec. 16; v. 269; p. 456.
- Clarke, Allen W., and L. M. Carl, Jeffersonville, Ind., assignors to American Car and Foundry Company, St. Louis, Mo. Hydrocarbon-fuel burner. No. 1,292,258; Jan. 21; v. 258; p. 594.
- Clarke, Charles W., Charleston, W. Va. Bread-slicer. No. 1,317,430; Sept. 30; v. 266; p. 655.
- Clarke, Edward W., Kingston-upon-Hull, England. Protector for the tail-shafts and bearings of ships' propellers. No. 1,294,620; Feb. 18; v. 259; p. 449.
- Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Light-filter. No. 1,293,039; Feb. 4; v. 259; p. 15.
- Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ester composition. No. 1,309,980; July 15; v. 264; p. 430.
- Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition. No. 1,309,981; July 15; v. 264; p. 430.
- Clarke, James B., Woodlawn, Pa. Method of and means for heating metal articles. No. 1,300,347; Apr. 15; v. 261; p. 443.
- Clarke, John A., Jr., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,323,248; Dec. 2; v. 269; p. 6.
- Clarke, John S., Pinckneyville, Ky. Furnace for evaporators. No. 1,304,542; May 27; v. 262; p. 491.



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- Clarke, Joseph T., Harrow, England. Instrument for indicating verticality or orientation. No. 1,306,882; June 17; v. 263; p. 373.
- Clarke, Milo A. (See Carlson, Oscar, assignor.)
- Clarke, Norman C. (See Anderson, Clarke, and White-law.)
- Clarke, Richard T., Columbus, Ohio. Garment-supporter. No. 1,306,801; June 17; v. 263; p. 358.
- Clarke, Richard G., New York, N. Y. Game apparatus. No. 1,320,315; Oct. 28; v. 267; p. 613.
- Clarke, Thomas J., and A. Illy, assignors to The William Koehl Company, Jamestown, N. Y. Machine for making round boxes. No. 1,300,211; Apr. 8; v. 261; p. 388.
- Clarke, Thomas W. (See Johnson, Lind, and Clarke.)
- Clarke, William E., Toronto, Ontario, Canada. Inking-pad. No. 1,305,444; June 3; v. 263; p. 40.
- Clarkson, Edwin S. (See Richardson, Wilbur P., assignor.)
- Clarkson Mfg. Co. (See Clarkson, William R., assignor.)
- Clarkson, William R., assignor to Clarkson Mfg. Co., Spokane, Wash. Making swivels. No. 1,316,877; Sept. 23; v. 266; p. 515.
- Clary, William, Goldendale, Wash. Dirigible headlight for automobiles. No. 1,295,434; Feb. 25; v. 259; p. 660.
- Clas, Angelo R., assignor to Falls Machine Company, Sheboygan Falls, Wis. Glue-clamp. No. 1,326,186; Dec. 30; v. 269; p. 716.
- Clasby, Fred, et al. (See Singer, William F., assignor.)
- Clasen, Winifred, Chicago, Ill. Fruit-jar opener. No. 1,324,586; Dec. 9; v. 269; p. 303.
- Classen, Alexander, Aachen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Oxidizing ammonia. No. 1,322,291; Nov. 18; v. 268; p. 478.
- Classon, Fred I., Ottawa, Ill. Planter attachment. No. 1,324,728; Dec. 9; v. 269; p. 329.
- Claude, Georges, assignor to L'Air Liquide (Societe Anonyme Pour L'Etude Et L'Exploitation Des Procédes Georges Claude), Paris, France. Desiccation of air or gases. No. 1,323,014; Nov. 25; v. 268; p. 666.
- Claude, Georges, assignor to L'Air Liquide, Societe Anonyme Pour L'Etude Et L'Exploitation Des Procédes Georges Claude, Paris, France. Fluid-compressor. No. 1,326,027; Dec. 23; v. 269; p. 649.
- Claudel, Charles H., Levallois Perret, France. Explosion-motor. No. 1,307,185; June 17; v. 263; p. 428.
- Claus, Carl, assignor to David Lupton's Sons Company, Philadelphia, Pa. Transfer-table for storage tote-boxes. No. 1,317,776; Oct. 7; v. 267; p. 22.
- Claus, Emil L., Milwaukee, Wis. Gas-cock. No. 1,296,625; Mar. 11; v. 260; p. 217.
- Claus, Emil L., Milwaukee, Wis. Gas-cock. No. 1,320,843; Nov. 4; v. 268; p. 91.
- Claus, Rudolph, Ottawa, Ill. Back-rest. No. 1,322,292; Nov. 18; v. 268; p. 478.
- Claus, Wilbert M., et al. (See Spencer, Lewis L., assignor.)
- Cause, William L., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Casting plate-glass. No. 1,298,893; Apr. 1; v. 261; p. 63.
- Clausen, Henry P. (See McQuarrie and Clausen.)
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,291,766; Jan. 21; v. 258; p. 472.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,295,435; Feb. 25; v. 259; p. 660.
- Clausen, Henry P., Mount Vernon, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone-exchange system. No. 1,297,100; Mar. 11; v. 260; p. 326.
- Clausen, Henry P., Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,298,293; Mar. 25; v. 260; p. 635.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Number-indicating means. No. 1,308,539; July 1; v. 264; p. 97.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,308,841; July 8; v. 264; p. 181.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,312,778; Aug. 12; v. 265; p. 206.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,317,074; Sept. 23; v. 266; p. 552.
- Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,302,767; May 6; v. 262; p. 54.
- Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,307,536; June 24; v. 263; p. 526.
- Clausen, Leon R., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rotary rake. No. 1,313,880; Aug. 26; v. 265; p. 466.
- Clausen, Leon R., and R. R. Bowers, assignors to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-stacker. No. 1,306,748; June 17; v. 263; p. 348.
- Clausen, Martin J., Seattle, assignor of one-half to H. Pederson, King county, Wash. Vehicle signal device. No. 1,298,894; Apr. 1; v. 261; p. 63.
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Last. No. 1,295,273; Feb. 25; v. 259; p. 623.
- Clauss, Max O., New York, N. Y. Labeling and stapling machine. No. 1,293,339; Feb. 4; v. 259; p. 84.
- Claussen, Walter E., Hartford, Conn. Receptacle. No. 1,296,923; Mar. 11; v. 260; p. 287.
- Clavel, Alexander. (See Resch, Wilhelm, assignor.)
- Clavel, René, Basel, Switzerland. Device for skimming or creaming milk. No. 1,323,015; Nov. 25; v. 268; p. 666.
- Clawson, Charles F., Mount Pleasant, Iowa, assignor of two-thirds to R. Luebbers, Emden, Ill. Rail-anchor. No. 1,293,340; Feb. 4; v. 259; p. 85.
- Clawson, Chester Y., Salt Lake City, Utah. Milk-bottle and the like. No. 1,291,412; Jan. 14; v. 258; p. 358.
- Clawson, Monroe S., Weehawken, N. J. Electric furnace. No. 1,306,948; June 17; v. 263; p. 385.
- Clawson, Monroe S., Belleville, N. J. Alloy for steel for casting high-speed tools. No. 1,315,468; Sept. 9; v. 266; p. 192.
- Clay, Edwin, Reno, Nev. Rail-brace. No. 1,319,461; Oct. 21; v. 267; p. 431.
- Clay, Harry C., Columbus, Ind., assignor to Emerson Brantingham Company, Rockford, Ill. Baling-press. No. 1,308,397; July 1; v. 264; p. 71.
- Claybourn, Leslie W., Cincinnati, Ohio. Curving printing-plates and printing-plates curved thereby. No. 1,318,967; Oct. 14; v. 267; p. 311.
- Claybourn, Leslie W., Cincinnati, Ohio. Apparatus for curving printing-plates. No. 1,318,968; Oct. 14; v. 267; p. 311.
- Claybourn, Leslie W., Cincinnati, Ohio. Heater. No. 1,318,969; Oct. 14; v. 267; p. 311.
- Claycomb, May B. and W. E., and J. A. Weimer, North Kansas City, Mo. Music-chart. No. 1,293,715; Feb. 11; v. 259; p. 202.
- Claycomb, William E. (See Claycomb and Weimer.)
- Claypool, Harry F., East St. Louis, Ill. Bolt or spike puller. No. 1,302,134; Apr. 29; v. 261; p. 870.
- Clayton, George J., Lakewood, N. J. Demountable rim. No. 1,321,888; Nov. 18; v. 268; p. 403.
- Clayton, Henry H., Canton, Mass. Flying-machine. No. 1,299,395; Apr. 1; v. 261; p. 177.
- Clayton & Lambert Manufacturing Company. (See Lambert, Charles R., assignor.)
- Clayton, Lefie A., Beaver county, Okla. Nut-lock bolt. No. 1,315,284; Sept. 9; v. 266; p. 158.
- Clayton, Robert H., Manchester, J. Huebner, Cheadle Hulme, and H. E. Williams, assignors to The Manchester Oxide Company Limited, Manchester, England. Treating cellulose. No. 1,301,652; Apr. 22; v. 261; p. 746.
- Clear Vision Windshield Company. (See Chidley, Joseph, assignor.)
- Cleaveland, Andrew C., Spencer, Iowa. Package-tie. No. 1,299,681; Apr. 8; v. 261; p. 271.
- Cleaver, Arthur L., Peterborough, Ontario, Canada. Bicycle hub-brake. No. 1,317,554; Sept. 30; v. 266; p. 679.
- Cleaver, Montague H., New York, N. Y. Combined non-skid and traction device for dual-tired wheels. No. 1,324,495; Dec. 9; v. 269; p. 285.
- Cleaver, Thomas A., Brooklyn, N. Y. Phonographic reproducing instrument for organs. No. 1,317,127; Sept. 23; v. 266; p. 562.
- Cleifton, Claud J. and G. J., Owatonna, Minn. Acetylene-generator. No. 1,305,254; June 3; v. 263; p. 4.
- Cleifton, Guy J. (See Cleifton, Claud J. and G. J.)
- Clegg, James H., West Kirby, England. Displaying or advertising apparatus. No. 1,321,720; Nov. 11; v. 268; p. 321.
- Clegg, James H., Liscard, Wallasey, England. Apparatus for scaling, cleaning, or otherwise acting upon surfaces. No. 1,323,964; Dec. 2; v. 269; p. 139.
- Clegg, William H., Burnley, England. Device for binding hose-pipe to metallic pipe. No. 1,325,395; Dec. 16; v. 269; p. 515.
- Cleland, Evan F., et al. (See Patrick, Henry W., assignor.)
- Cleland, Forrest A., et al. (See Patrick, Henry W., assignor.)
- Clemenger, Harry G. (See Frick and Clemenger.)
- Clemens, Chester E., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,316,017; Sept. 16; v. 266; p. 305.
- Clemens, Hermann. (See Weaver and Clemens.)
- Clemens, William, San Fernando, Calif. Lifting-jack. No. 1,298,895; Apr. 1; v. 261; p. 63.



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- Clement, Charles G. (See Menhall and Clement.)  
 Clement, Edward E. (See Hill, Myron F., assignor.)  
 Clement, Edward E., Washington, D. C. Acoustic apparatus. No. 1,306,248; June 10; v. 263; p. 224.  
 Clement, Foster R. (See Touchette, William H., assignor.)  
 Clement, Frank H. (See McMichael and Clement.)  
 Clement, Frank H., and H. A. Perkins, assignors to American Wood Working Machinery Co., Rochester, N. Y. Wood-planing machine. No. 1,292,579; Jan. 28; v. 258; p. 692.  
 Clement, Jason, Lowell, Ariz. Luggage-handling device. No. 1,319,324; Oct. 21; v. 267; p. 404.  
 Clement, John W. (See Jones and Clement.)  
 Clement, May, New York, N. Y. Stocking-protector. No. 1,292,259; Jan. 21; v. 258; p. 594.  
 Clement Talbot, Limited. (See Roesch, Georges, assignor.)  
 Clement, William D., Waltham, Mass. Lathe. No. 1,319,645; Oct. 21; v. 267; p. 466.  
 Clements, Alfred J., and W. Fischer, Des Moines, Iowa. Trolley-pole clamp. No. 1,300,929; Apr. 15; v. 261; p. 506.  
 Clements, Charles F., Peoria, Ill. Grain-weigher. No. 1,312,832; Aug. 12; v. 265; p. 217.  
 Clements Company, The. (See Kennedy, Joseph, assignor.)  
 Clements, Eilert A., Grand Rapids, Mich. Underwear. No. 1,298,667; Apr. 1; v. 261; p. 10.  
 Clements, Everett G., Washington, D. C., assignor to The Prest-O-Lite Company, Inc. Battery-grid-pasting apparatus. No. 1,303,030; May 6; v. 262; p. 105.  
 Clements, George W., Detroit, Mich. Tire attachment. No. 1,315,009; Sept. 2; v. 266; p. 98.  
 Clements, Harry. (See Spinello, Mathew, assignor.)  
 Clements, John W., Eton, Ga. Figure toy. No. 1,324,646; Dec. 9; v. 269; p. 314.  
 Clementson, Johan F. J., Malmö, Sweden. Reversing-gear for propeller-shafts. No. 1,320,316; Oct. 28; v. 267; p. 613.  
 Clémentz, Carl O., Malmö, Sweden. Sighting apparatus. No. 1,324,729; Dec. 9; v. 269; p. 329.  
 Clemmams, William H., Camden, N. J. Glare-shield for headlights. No. 1,325,619; Dec. 23; v. 269; p. 574.  
 Clemmensen, Hans M., Houston, Minn. Fuel-heater. No. 1,318,265; Oct. 7; v. 267; p. 116.  
 Clemmer, Joel G. (See Eschinger, Edward A., assignor.)  
 Clendenen, Bennett J., Miami, W. Va. Hammer. No. 1,314,247; Aug. 26; v. 265; p. 537.  
 Clepp, Birger A., Minneapolis, Minn. Mark-up table. No. 1,305,062; May 27; v. 262; p. 588.  
 Clerget, Blin & Cie. (See Clerget, Pierre, assignor.)  
 Clerget, Pierre, assignor to Clerget, Blin & Cie., Levallois-Perret, France. Pitman for rotary radial motors. No. 1,305,194; May 27; v. 262; p. 614.  
 Clerget, Pierre, assignor to Clerget, Blin & Cie., Levallois-Perret, France. Casting cylinders of internal-combustion engines. No. 1,309,182; July 8; v. 264; p. 245.  
 Clerico, Dominick, Yonkers, N. Y. Non-skidding device for vehicle-wheels. No. 1,319,512; Oct. 21; v. 267; p. 440.  
 Cleveland-Akron Bag Company, The. (See Scherf, Theodore, assignor.)  
 Cleveland Car Specialty Company. (See Costello, Joseph A., assignor.)  
 Cleveland-Cliffs Iron Company, The. (See Hudson and Merriam, assignors.)  
 Cleveland, Edgar W., Holland, Mich. Adjustable arm for multiple drills. No. 1,316,140; Sept. 16; v. 266; p. 328.  
 Cleveland, Edgar W., Holland, Mich. Adjustable arm for multiple-spindle drills. No. 1,316,141; Sept. 16; v. 266; p. 328.  
 Cleveland, Edgar W., Holland, Mich. Adjustable-arm structure for multiple-spindle drills. No. 1,316,142; Sept. 16; v. 266; p. 328.  
 Cleveland Flush Meter Company, The. (See Grabler, Peter, assignor.)  
 Cleveland Folding Machine Company, The. (See Kimball, Robert E., assignor.)  
 Cleveland Gas Burner and Appliance Company, The. (See Barber, William J., assignor.)  
 Cleveland Hardware Company, The. (See Adams, Edgar E., assignor.)  
 Cleveland Hardware Company, The. (See Arthur, Albert E., assignor.)  
 Cleveland, Isaac B., Brooklyn, N. Y. Clothes-pin. No. 1,298,460; Mar. 25; v. 260; p. 670.  
 Cleveland Macaroni Company, The. (See Gammel, Karl, assignor.)  
 Cleveland Metal Products Company, The. (See Raines, Henry C., assignor.)  
 Cleveland Metal Products Company, The. (See Chadwick, Lee S., assignor.)  
 Cleveland Metal Products Company, The. (See Chadwick and Rehmer, assignors.)  
 Cleveland Metal Products Company. (See Chadwick and Resek, assignors.)  
 Cleveland Metal Products Company, The. (See Harrison, George L., assignor.)  
 Cleveland Tractor Company, The. (See Savage, Edwin H., assignor.)  
 Cleveland Tractor Company, The. (See Weldely, George A., assignor.)  
 Cleveland Tractor Company, The. (See White, Rollin H., assignor.)  
 Cleveland, William B., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Apparatus for electric welding. No. 1,290,089; Jan. 7; v. 258; p. 18.  
 Cleveland Wire Spring Co. (See Barker, Charles R., assignor.)  
 Clewe, William F., et al. (See Pagendarm, John F., assignor.)  
 Click, Joseph S. (See Shipman and Click.)  
 Clifford, Arthur, assignor to Weber Engine Company, Kansas City, Mo. Reversible clutch-pulley. No. 1,292,260; Jan. 21; v. 258; p. 594.  
 Clifford Automatic Train Stop Company. (See Clifford, Patrick J., assignor.)  
 Clifford, Harlan A., and J. W. Cobb, Greenfield, Mass. Anesthetic-dispenser. No. 1,318,266; Oct. 7; v. 267; p. 116.  
 Clifford, Oliver N., et al. (See Evans, Joseph E., assignor.)  
 Clifford, Patrick J., Avoca, assignor to Clifford Automatic Train Stop Company, Scranton, Pa. Track implement for air-brake systems. No. 1,302,135; Apr. 29; v. 261; p. 870.  
 Clifford, Samuel J., assignor to Pacific Evaporator Company, Portland, Ore. Pitting-machine. No. 1,292,261; Jan. 21; v. 258; p. 594.  
 Clifford, Spencer. (See Runge and Clifford.)  
 Clift, Frederic H. Barnes, assignor to S. Smith & Sons Motor Accessories Limited, St. Marylebone, London, England. Instrument for indicating the velocity of the wind or air-currents. No. 1,310,648; July 22; v. 264; p. 583.  
 Clift, John J. (See Payne, Charles H., assignor.)  
 Clifton, Ray H., East Peru, Iowa. Throttle-valve. No. 1,308,842; July 8; v. 264; p. 181.  
 Clifton, Sydney. (See Hodgkins and Clifton.)  
 Climensson, Jesse S., Honey Brook, Pa. Fastening for tool-heads. No. 1,294,236; Feb. 11; v. 259; p. 326.  
 Cline, Albert R., Easton, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Switch-rod. No. 1,303,165; May 6; v. 262; p. 151.  
 Cline, Charles A., Jr., Detroit, Mich. Air-mixer. No. 1,290,715; Jan. 7; v. 258; p. 170.  
 Cline, George W., et al. (See Henshaw, Fred M., assignor.)  
 Cline, Hugh J., West Palm Beach, Fla. Cycle-hand-grip-attaching means. No. 1,290,716; Jan. 7; v. 258; p. 171.  
 Cline, Robert F., Los Angeles, Calif. Tractor. No. 1,326,847; Dec. 30; v. 269; p. 841.  
 Clingan, George W., Daisy, Ark. Safety-window for cashiers' booths. No. 1,311,317; July 29; v. 264; p. 739.  
 Clinger, William T., Oil City, Pa. Field-gun. No. 1,301,820; Apr. 29; v. 261; p. 810.  
 Clink, Walter G., Danville, Ill. Spark-plug tester. No. 1,298,896; Apr. 1; v. 261; p. 64.  
 Clinton, James S., Chicago, Ill. Apparatus for depositing dough. No. 1,301,038; Apr. 15; v. 261; p. 590.  
 Clinton, James S., Chicago, Ill. Device for lining tins or other receptacles. No. 1,308,540; July 1; v. 264; p. 97.  
 Clinton Wire Cloth Company. (See Horton, James A., assignor.)  
 Clinton-Wright Wire Company. (See Hildreth, Henry A., assignor.)  
 Clinton-Wright Wire Company. (See Horton, James A., assignor.)  
 Clock, Fred A. (See Keesler and Clock.)  
 Clockers, Eric W., Chicago, Ill. Speed-wagon. No. 1,318,847; Oct. 14; v. 267; p. 287.  
 Cloonan, Edward A., St. Louis, Mo. Toy tank. No. 1,294,237; Feb. 11; v. 259; p. 326.  
 Cloonan, Edward A., St. Louis, Mo. Scoring attachment for printing-presses. No. 1,302,136; Apr. 29; v. 261; p. 870.  
 Cloonan, Edward A., St. Louis, Mo. Sheet-retaining attachment for printing-presses. No. 1,302,310; Apr. 29; v. 261; p. 903.  
 Close, Albert, Plainfield, N. J. Milking-machine. No. 1,323,676; Dec. 2; v. 269; p. 85.  
 Close, Evangeline L., Brooklyn, N. Y. Musical blocks. No. 1,309,116; July 8; v. 264; p. 233.  
 Close, James B., Sittingbourne, England. Projectile. No. 1,301,907; Apr. 29; v. 261; p. 827.  
 Close, Thomas J., Philadelphia, Pa. Shock-absorber. No. 1,324,338; Dec. 9; v. 269; p. 255.  
 Clothier, Albert E. C., Swarthmore, Pa. Reversible cuff. No. 1,312,100; Aug. 5; v. 265; p. 47.  
 Clough, Alfred N., assignor to Three Leaf Cot Manufacturing Company, San Jose, Calif. Convertible furniture. No. 1,320,365; Oct. 28; v. 267; p. 623.  
 Clough, Andrew M., Batavia, N. Y. Timber-hook. No. 1,306,802; June 17; v. 263; p. 358.  
 Clough, James E., W. H. Stilwell, Paris, and A. R. Fugina, Louisville, Ky. Rail-contact circuit-controller. No. 1,312,101; Aug. 5; v. 265; p. 47.  
 Clough, Willard E., Mansfield, Mass. Boat. No. 1,325,275; Dec. 16; v. 269; p. 493.  
 Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Heading-slide for forging-machines. No. 1,297,101; Mar. 11; v. 260; p. 326.



## Alphabetical list of patentees—Continued.

- Clover Electrical Corporation. (See Clover, Howard K., assignor.)
- Clover, Howard K., Los Angeles, Calif., assignor, by mesne assignments, to Clover Electrical Corporation. Electrically-heated faucet. No. 1,313,519; Aug. 19; v. 265; p. 365.
- Clover, James B. (See Hibbard, Louis R., assignor.)
- Cluett, Peabody & Co. (See Hurd, Hubbard F., assignor.)
- Cluett, Peabody & Co. (See Thomas, James A., assignor.)
- Cluett, Sanford L., Hoosick Falls, N. Y. Mower. No. 1,323,388; Dec. 2; v. 269; p. 31.
- Cluff, George F., Jr., Sacramento, Cal. Chair. No. 1,291,413; Jan. 14; v. 258; p. 358.
- Clulee, Harry I., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Heat-insulator for handled vessels. No. 1,292,262; Jan. 21; v. 258; p. 595.
- Clulee, Stephen J., Attleboro, Mass. Bridge for eyeglasses and spectacles. No. 1,298,294; Mar. 25; v. 260; p. 635.
- Cluley, John P., Chicago, Ill. Circulator. No. 1,310,324; July 15; v. 264; p. 491.
- Cluster Appliance Gas Lamp Co. (See Cozatsky, Nathan, assignor.)
- Clutsam, Frederick, London, assignor of one-half to J. Biddow, Upper Norwood, England. Pianoforte-action. No. 1,301,908; Apr. 29; v. 261; p. 828.
- Clutter, Le Roy P., Beaver Falls, Pa. Ditching or excavating machine. No. 1,317,431; Sept. 30; v. 266; p. 655.
- Clyde E. Lowe Company, The. (See Clark and Lowe, assignors.)
- Clymer, Milton G., and A. E. Ritchey, St. Louis, Mo. Machine for opening and refinishing cans. No. 1,317,001; Sept. 23; v. 266; p. 538.
- Clyne, Robert G., Alton, Ill., assignor of one-eighth to J. V. Barret, one-eighth to C. F. Gilbert, one-eighth to C. R. Reed, one-eighth to K. Rayburn, one-eighth to S. L. Rayburn, one-eighth to W. Geist, St. Louis, one-eighth to C. H. Mueller, Kirkwood, Mo., and one-eighth to D. Wyant, East St. Louis, Ill. Stave resawing and jointing machine. No. 1,321,285; Nov. 11; v. 268; p. 239.
- Clyneke, Dezere, Boulder, Colo. Grain-drill. No. 1,298,009; Mar. 25; v. 260; p. 574.
- Coackley, William, Pendleton, Manchester, England. Fitting for use in glazing roof and like structures. No. 1,296,924; Mar. 11; v. 260; p. 287.
- Coackley, William, Pendleton, Manchester, England. Fittings for use in glazing roof and like structures. No. 1,315,285; Sept. 9; v. 266; p. 159.
- Coady, Frederick A., assignor to Crescent Manufacturing Company, Pueblo, Colo. Folding table. No. 1,318,970; Oct. 14; v. 267; p. 311.
- Coakley, William E., assignor to The Ohio Blower Company, Cleveland, Ohio. Valve. No. 1,298,668; Apr. 1; v. 261; p. 10.
- Coast, John W., Jr., Tulsa, Okla., assignor to The Process Company. Apparatus for cracking hydrocarbons. No. 1,291,414; Jan. 14; v. 258; p. 358.
- Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,307,724; June 24; v. 263; p. 559.
- Coatalen, Louis, Wolverhampton, England. Cylinder for internal-combustion engines. No. 1,293,341. Feb. 4; v. 259; p. 85.
- Coatalen, Louis, Wolverhampton, England. Lubrication of cam-shafts for internal-combustion engines. No. 1,308,225; July 1; v. 264; p. 40.
- Coatalen, Louis, assignor of one-half to Sunbeam Motor Car Company Limited, Wolverhampton, England. Fuel-feed system for aerial machines. No. 1,299,128; Apr. 1; v. 261; p. 117.
- Coatalen, Louis, assignor of one-half to Sunbeam Motor Car Company Limited, Wolverhampton, England. Cooling internal-combustion engines. No. 1,299,129; Apr. 1; v. 261; p. 117.
- Coatalen, Louis, assignor of one-half to Sunbeam Motor Car Company, Limited, Wolverhampton, England. Valve-gear. No. 1,306,949; June 17; v. 263; p. 386.
- Coatalen, Louis, assignor of one-half to Sunbeam Motor Car Company Limited, Wolverhampton, England. Internal-combustion engine. No. 1,307,619; June 24; v. 263; p. 540.
- Coatalen, Louis, and H. C. M. Stevens, Wolverhampton, England. Gearing for internal-combustion engines. No. 1,298,461; Mar. 25; v. 260; p. 670.
- Coates, Frank, Cleadon, and J. Mirrey, East Boldon, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Earthing device for electric oil-break switches. No. 1,326,028; Dec. 23; v. 269; p. 650.
- Coates, Henry, Walford, England. Electric-arc furnace. No. 1,308,624; July 1; v. 264; p. 113.
- Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpville, Pa. Removable-sided ingot-mold. No. 1,313,259; Aug. 19; v. 265; p. 317.
- Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpville, Pa. Collapsible core for ingot-molds. No. 1,313,983; Aug. 26; v. 265; p. 487.
- Coatney, Stephen J., Fallon, Nev. Baling-press. No. 1,301,039; Apr. 15; v. 261; p. 591.
- Coats, Fred R., Springfield, Ill. Detachable reflector for vehicle-lamps. No. 1,314,047; Aug. 26; v. 265; p. 499.
- Coats, Henry B., Veedersburg, Ind. Sectional pneumatic tire. No. 1,311,806; July 29; v. 264; p. 831.
- Coats Machine Tool Company. (See Mackintosh, William B., assignor.)
- Coats Machine Tool Company. (See Tucker, Benjamin W., assignor.)
- Cobb, Dan L., and W. W. Moore, Orange, Tex. Dubbing-machine. No. 1,306,249; June 10; v. 263; p. 225.
- Cobb, Edward S., Whittier, Calif. Frost-preventer for orchards, &c. No. 1,317,959; Oct. 7; v. 267; p. 57.
- Cobb, Ernest B., Jersey City, N. J., assignor to Standard Oil Company. Desulfurizing petroleum-oils. No. 1,300,816; Apr. 15; v. 261; p. 543.
- Cobb, Ernest B., Jersey City, N. J., assignor to Standard Oil Company. Treatment of petroleum-oils. No. 1,315,623; Sept. 9; v. 266; p. 219.
- Cobb, Ernest B., Jersey City, assignor to Standard Oil Company, Bayonne, N. J. Making low-boiling oil from higher-boiling petroleum or related oil. No. 1,322,762; Nov. 25; v. 268; p. 619.
- Cobb, Ernest B., Jersey City, assignor to Standard Oil Company, Bayonne, N. J. Making low-boiling oil from higher-boiling petroleum or related oil. No. 1,322,878; Nov. 25; v. 268; p. 640.
- Cobb, F. Gordon, Greenville, S. C. Picker-stick check. No. 1,294,238; Feb. 11; v. 259; p. 326.
- Cobb, Frank M., Cedarville, N. J. Ventilating structure. No. 1,317,960; Oct. 7; v. 267; p. 57.
- Cobb, James W. (See Clifford and Cobb.)
- Cobb, John H., Fairfield, Conn. Sash-fastener. No. 1,312,893; Aug. 12; v. 265; p. 228.
- Cobe, Harry H., Boston, Mass., assignor to Burd Ring Sales Company, Buffalo, N. Y. Fastener. No. 1,305,979; June 2; v. 263; p. 142.
- Cobellis, Fabricius, Philadelphia, Pa. Manufacture of synthetic carboic acid. No. 1,301,909; Apr. 29; v. 261; p. 828.
- Cobey, Frank, East Berlin, Conn. Chuck. No. 1,304,658; May 27; v. 262; p. 513.
- Cobey, Frank, East Berlin, Conn. Chuck. No. 1,304,659; May 27; v. 262; p. 513.
- Cobey, Frank, East Berlin, Conn. Chuck. No. 1,310,409; July 22; v. 264; p. 539.
- Coble, David C., Elizabethtown, Pa. Jarring-machine. No. 1,323,877; Dec. 2; v. 269; p. 85.
- Coburn, Edward B., assignor of one-half to J. B. Hannigan, Worcester, Mass. Ice-cutting machine. No. 1,306,047; June 10; v. 263; p. 184.
- Coburn, James W., Highland Park, Mich. Front axle and bolster construction for vehicles. No. 1,302,634; May 6; v. 262; p. 29.
- Coburn, James W., Highland Park, Mich. Running-gear for vehicles. No. 1,320,739; Nov. 4; v. 263; p. 71.
- Coburn, James W., Highland Park, Mich. Rear-axle mounting for tractors. No. 1,325,832; Dec. 23; v. 269; p. 614.
- Coburn, Richard G., assignor to Brown Specialty Machinery Co., Chicago, Ill. Shutter mechanism for endless conveyers and the like. No. 1,306,103; June 10; v. 263; p. 194.
- Coburn Trolley Track Manufacturing Company, The. (See Coffin, Charles W., assignor.)
- Cobwell Corporation. (See Wells, Raymond, assignor.)
- Cocanari, Silvio, Vieux-Dieu, near Antwerp, Belgium. Antihalation coating for photographic plates and cinematograph-films. No. 1,305,195; May 27; v. 262; p. 614.
- Cochell, Earl H. (See Cole, Luther F., assignor.)
- Cochran, Alfred, Brooklyn, assignor of one-half to T. Cochran, New York, N. Y. Process and apparatus for cracking and distilling hydrocarbons. No. 1,296,367; Mar. 4; v. 260; p. 124.
- Cochran, James K., Cartersville, Ill. Wireless check-row planter. No. 1,290,913; Jan. 14; v. 258; p. 242.
- Cochran, John C., and S. A. Willis, Brooklyn, N. Y. Station-indicator. No. 1,316,353; Sept. 16; v. 266; p. 368.
- Cochran, John J., assignor to Martin-Lumaghi Manufacturing Company, St. Louis, Mo. Mixer. No. 1,305,064; May 27; v. 262; p. 589.
- Cochran, Kent R. (See Lee and Cochran.)
- Cochran, Russell, and J. McCormack, Hamilton, Ontario, Canada. Hinge. No. 1,314,732; Sept. 2; v. 266; p. 49.
- Cochran, Thomas. (See Cochran, Alfred, assignor.)
- Cochran, Wesley E., Cleveland, Ohio. Lighting-fixture. No. 1,292,432; Jan. 28; v. 258; p. 656.
- Cochran, Wesley E., Cleveland, Ohio. Lamp-fixture. No. 1,301,653; Apr. 22; v. 261; p. 746.
- Cochran, William R., Delphos, Ohio, assignor of one-half to A. Esterline and G. W. Sherer, Fort Wayne, Ind. Oil-burner. No. 1,310,283; July 15; v. 264; p. 484.
- Cochran, William R., Delphos, Ohio. Oil-burner. No. 1,325,620; Dec. 23; v. 269; p. 574.
- Cochrane, Albert P., Brooklyn, assignor to Hervey, Barber & McKee, New York, N. Y. Corner-piece. No. 1,320,205; Oct. 28; v. 267; p. 593.
- Cochrane, Albert P., Brooklyn, assignor to Hervey, Barber & McKee, New York, N. Y. Box or crate frame. No. 1,326,646; Dec. 30; v. 269; p. 803.



- Cochrane, Alfred W., Kewanee, Ill., assignor to J. P. Adamson, St. Paul, Minn. Wall-radiator bracket. No. 1,300,817; Apr. 15; v. 261; p. 543.
- Cochrane, Frank, Cheadle Hulme, England. Production of fabrics having the property of invisibility. No. 1,306,213; June 10; v. 263; p. 215.
- Cochrane, Harry C., Brooklyn, N. Y. Metal barrel. No. 1,325,231; Dec. 16; v. 269; p. 485.
- Cochrane, Julian M., Boston, Mass. Stereopticon-slide. No. 1,309,183; July 8; v. 264; p. 245.
- Cochrane, Robert B., assignor to T. H. Symington Company, Rochester, N. Y. Metal-cutting machine. No. 1,321,091; Nov. 11; v. 268; p. 201.
- Cochrane, Samuel B., Brooklyn, N. Y. Barrel-head. No. 1,310,857; July 22; v. 264; p. 621.
- Cockaday, Laurence M., New York, N. Y. Radioteleg-raphy. No. 1,299,823; Apr. 8; v. 261; p. 303.
- Cockburn, David, and D. MacNicol, assignors, to Cockburns Limited, Cardonald, near Glasgow, Scotland. Valve. No. 1,299,130; Apr. 1; v. 261; p. 117.
- Cockburn, David, and D. MacNicol, assignors to Cockburns, Limited, Cardonald, near Glasgow, Scotland. Valve. No. 1,312,102; Aug. 5; v. 265; p. 47.
- Cockburn, David, and D. MacNicol, assignors to Cockburns, Limited, Cardonald, near Glasgow, Scotland. Safety-valve. No. 1,322,179; Nov. 18; v. 268; p. 457.
- Cockburn, David, and D. MacNicol, Cardonald, near Glas-gow, Scotland. Safety-valve. No. 1,325,508; Dec. 23; v. 269; p. 553.
- Cockburn, Francis B., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Engine-lathe-apron oiling system. No. 1,294,402; Feb. 18; v. 259; p. 399.
- Cockburn, Francis B., and J. C. Carlton, assignors to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Projectile-turner. No. 1,313,166; Aug. 12; v. 265; p. 282.
- Cockburns, Limited. (See Cockburn and MacNicol, as-signors.)
- Cockrane, Samuel B. (See Voltz, Charles, assignor.)
- Cocksedge, Herbert E. (See Freeth and Cocksedge.)
- Coco, Horace D., Hamburg, La. Railway-joint. No. 1,323,156; Nov. 25; v. 268; p. 692.
- Coda, Carlo, Turin, Italy. Wheel-tire of railway and tram-ways vehicles. No. 1,293,628; Feb. 4; v. 259; p. 152.
- Codd, J. W., et al. (See Coyne, William E. S., assignor.)
- Codd, Mortimer A., Lambeth, England. Ignition device for internal-combustion engines. No. 1,297,102; Mar. 11; v. 260; p. 326.
- Codd, William C., et al. (See Schumann, Alfred F., assignor.)
- Codd, William C., Baltimore, Md. Pipe-coupling. No. 1,307,392; June 24; v. 263; p. 499.
- Code, George, Malden, Mass. Power-generating apparat-us. No. 1,308,732; July 1; v. 264; p. 133.
- Cody, Arthur P., Cleveland, Ohio. Bath-room fixture. No. 1,312,613; Aug. 12; v. 265; p. 175.
- Coe, Addison, Jersey City, assignor of one-half to E. Berenbroick, Union, N. J. Extension-staff and con-tainer for flags. No. 1,305,885; June 3; v. 263; p. 124.
- Coe, Charles T., Kearney, N. J. Compound two-stage turbine. No. 1,301,387; Apr. 22; v. 261; p. 698.
- Coe, Elmer R., Wilkensburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 1,307,725; June 24; v. 263; p. 559.
- Coe, Elmer R., Wilkensburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,324,230; Dec. 9; v. 269; p. 234.
- Coe, Elmer R., Wilkensburg, and R. M. Gilson, Pittsburgh, assignors to The Union Switch & Signal Company, Swiss-vale, Pa. Railway signaling. No. 1,310,608; July 22; v. 264; p. 575.
- Coe, Harrison S., Mound City, Kans., assignor to The Dorr Company. Concentration of sodium nitrate or potas-sium nitrate. No. 1,292,580; Jan. 28; v. 258; p. 692.
- Coe, Herbert, and C. P. Lawrence, New York, N. Y. Identi-fication device. No. 1,320,448; Nov. 4; v. 268; p. 17.
- Coe, Stapley Manufacturing Corporation. (See Stapley, Philip H., assignor.)
- Coe, Walter S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. No. 1,304,660; May 27; v. 262; p. 513.
- Coes, Russell R., assignor of one-half to Coes Wrench Co., Worcester, Mass. Wrench-handle. No. 1,311,110; July 22; v. 264; p. 668.
- Coes, Russell R., assignor of one-half to Coes Wrench Co., Worcester, Mass. Handle for wrenches. No. 1,311,111; July 22; v. 264; p. 668.
- Coes Wrench Co. (See Coes, Russell R., assignor.)
- Coffeen, Jesse, assignor to I. Brady, Chicago, Ill. Ex-tracting sulfur from ore. No. 1,314,856; Sept. 2; v. 266; p. 71.
- Coffelder, Thomas N., Edgewood, assignor to Liberty Radiator Company, Pittsburgh, Pa. Radiator. No. 1,314,048; Aug. 26; v. 265; p. 499.
- Coffey, Michael J., Freeport, assignor to T. A. Gillespie Company, New York, N. Y. Pipe-coupling. No. 1,310,740; July 22; v. 264; p. 599.
- Coffey, Thomas, West Tulsa, Okla. Foot and arch sup-port for shoes. No. 1,291,639; Jan. 14; v. 258; p. 411.
- Coffey, Timothy J., East Providence, R. I. Automobile signaling device. No. 1,308,662; July 1; v. 264; p. 120.
- Coffin, Abbott S. (See Huber, George T., assignor.)
- Coffin, Charles W., Portland, Me., assignor to The Coburn Trolley Track Manufacturing Company, Chicopee, Mass. Folding table. No. 1,306,466; June 10; v. 263; p. 264.
- Coffin, Charles W., assignor to The E. T. Burrows Com-pany, Portland, Me. Sewing-table. No. 1,323,745; Dec. 2; v. 269; p. 97.
- Coffin, Curtis W., Holly, Colo. Drink-mixer. No. 1,298,897; Apr. 1; v. 261; p. 64.
- Coffin, Jerome P. (See Clark, Fred P., assignor.)
- Coffman, Mason D., Florence, Ariz. Can perforator and cover. No. 1,295,004; Feb. 18; v. 259; p. 538.
- Coffman, Roscoe A., assignor to Swartz Electric Company, Indianapolis, Ind. Lubricant catching and deflecting means for piston-rods. No. 1,293,342; Feb. 4; v. 259; p. 85.
- Coffman, Samuel M., Kansas City, Mo., assignor, by mesne assignments, to The Bushnell Manufacturing Company. Vending-machine. No. 1,309,184; July 8; v. 264; p. 245.
- Coffman, Samuel M., Kansas City, Mo., assignor, by mesne assignments, to The Bushnell Manufacturing Company. Vending-machine. No. 1,309,185; July 8; v. 264; p. 245.
- Cofman, Ray, Bloom township, Fairfield county, Ohio. Marker for corn-planters. No. 1,311,318; July 29; v. 264; p. 740.
- Cogan, Henry M., Brooklyn, N. Y. Fuse for electric circuits. No. 1,308,042; July 1; v. 264; p. 7.
- Coggan, Walter H., New York, N. Y. Concrete structure. No. 1,325,079; Dec. 16; v. 269; p. 456.
- Coggin, Frank E., Boston, and R. P. Whitchee, Melrose, Mass. Steam-radiator for traction-railway cars. No. 1,307,849; June 24; v. 263; p. 583.
- Coggins, Jacob H., Talladega, Ala. Incandescent electric lamp. No. 1,298,179; Mar. 25; v. 260; p. 610.
- Coghlin, Walter L., Detroit, Mich. Overhead carrier. No. 1,320,740; Nov. 4; v. 268; p. 71.
- Cogozzo, Antonio, assignor to R. C. Koch, New York, N. Y. Wire-looping device for piano-strings. No. 1,310,791; July 22; v. 264; p. 610.
- Cogozzo, Joseph, Rochester, N. Y., assignor to American Piano Company, New York, N. Y. Wire-twisting ma-chine. No. 1,310,003; July 15; v. 264; p. 434.
- Cogsdill, Stuart A., Detroit, Mich. Machine for grind-ing tools. No. 1,323,452; Dec. 2; v. 269; p. 43.
- Cogswell, Arthur C., Detroit, Mich. Water-waste con-trol. No. 1,304,157; May 20; v. 262; p. 377.
- Cogswell, John H., Lansing, Mich. Atomizer for internal-combustion engines. No. 1,291,767; Jan. 21; v. 258; p. 472.
- Cogswell, Wilton W., Kansas City, Mo. Game. No. 1,295,436; Feb. 25; v. 259; p. 661.
- Cogswell, Wilton W., Kansas City, Mo. Game. No. 1,295,437; Feb. 25; v. 259; p. 661.
- Cohan, Charles. (See Herschede and Cohan.)
- Cohan, Charles, assignor to The Herschede Hall Clock Company, Cincinnati, Ohio. Automatic synchronizing mechanism for chime-clocks. No. 1,292,581; Jan. 28; v. 258; p. 693.
- Cohan, Charles, assignor to The Herschede Hall Clock Company, Cincinnati, Ohio. Clock-face-mounting means. No. 1,319,044; Oct. 21; v. 267; p. 351.
- Cohan, Charles, assignor to The Herschede Hall Clock Company, Cincinnati, Ohio. Chord-striking mechanism for chime-clocks. No. 1,319,045; Oct. 21; v. 267; p. 351.
- Cohen, Bernard, and M. Lichtenstein, New York, N. Y. Animal-head. No. 1,324,730; Dec. 9; v. 269; p. 330.
- Cohen, Harry, Philadelphia, Pa. Plate-punching ma-chine. No. 1,320,206; Oct. 28; v. 267; p. 593.
- Cohen, Henry I., et al. (See Kerr, George C., assignor.)
- Cohen, Ira. (See Finkel and Cohen.)
- Cohen, Jacob, and A. J. Connell, College Point, N. Y., as-signors to Empire Art Metal Co., Inc. Metallic par-tition. No. 1,292,263; Jan. 21; v. 258; p. 595.
- Cohen, Jacob J. (See Arenson, Abe, assignor.)
- Cohen, Joseph H., Brighton, Mass. Treating sludge from acetylene generation. No. 1,319,206; Oct. 21; v. 267; p. 382.
- Cohen, Louis, Washington, D. C. Electrical signaling. No. 1,313,070; Aug. 12; v. 265; p. 264.
- Cohen, Mark. (See McKevitt and Cohen.)
- Cohen, Mitchell, Chicago, Ill., assignor to De Leon Ban-deau Company, St. Louis, Mo. Hatband. No. 1,297,103; Mar. 11; v. 260; p. 327.
- Cohen, Oscar, New York, N. Y. Cuspidor-cleaner. No. 1,298,295; Mar. 25; v. 260; p. 635.
- Cohen, Simon, Hartford, Conn. Advertising-sign. No. 1,292,433; Jan. 28; v. 258; p. 656.
- Cohen, Thomas. (See Smock, Howard A., assignor.)
- Cohn, Adolph, New York, N. Y. Alloy. No. 1,323,833; Dec. 2; v. 269; p. 115.
- Cohn, Adolph, New York, N. Y. Alloy. No. 1,323,834; Dec. 2; v. 269; p. 115.
- Cohn, Albert, and L. H. Debs, Chicago, Ill. Culinary utensil. No. 1,308,482; July 1; v. 264; p. 86.



## Alphabetical list of patentees—Continued.

- Cohn, Isaac, assignor to Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candy-mold. No. 1,303,773; May 13; v. 262; p. 270.
- Cohn, Jacob, Cleveland, Ohio. Belt-replacing device. No. 1,318,727; Oct. 14; v. 267; p. 265.
- Cohn, Nathan L., Chicago, Ill. Bowl-hanger. No. 1,324,307; Dec. 9; v. 269; p. 249.
- Cohn, Ovidio, assignor to Bijou Button Co., Inc., New York, N. Y. Machine for making celluloid buttons. No. 1,296,767; Mar. 11; v. 260; p. 251.
- Cohn, Samuel, New York, N. Y. Automobile-signal. No. 1,292,709; Jan. 28; v. 258; p. 723.
- Cohn, Samuel, New York, N. Y. Machine for stretching and drying tubular fabrics. No. 1,313,468; Aug. 19; v. 265; p. 355.
- Cohn, Samuel, assignor to Police Traffic Auto Signal Co., New York, N. Y. Automobile-signal. No. 1,292,434; Jan. 28; v. 258; p. 656.
- Cohn, Samuel, New York, N. Y., assignor to Police Traffic Auto Signal Company. Automobile-signal. No. 1,292,710; Jan. 28; v. 258; p. 723.
- Cohn, Samuel, New York, N. Y., assignor to Police Traffic Auto Signal Company. Automobile-signal. No. 1,292,711; Jan. 28; v. 258; p. 724.
- Cohn, Samuel, New York, N. Y., assignor to Police Traffic Auto Signal Company. Adjustable clamp. No. 1,292,712; Jan. 28; v. 258; p. 724.
- Cohn, Samuel, New York, N. Y., assignor to Police Traffic Auto Signal Company. Automobile-signal. No. 1,292,713; Jan. 28; v. 258; p. 724.
- Coho, Herbert B., Mount Vernon, N. Y. Brake-band. No. 1,306,404; June 10; v. 263; p. 253.
- Cohoes Envelope Co. (See Kleebauer, Charles P., assignor.)
- Coll, William D., Muncie, Ind. Egg-case filler. No. 1,308,578; July 1; v. 264; p. 104.
- Coln Controlled Lock Company. (See Farnsworth, Willis S., assignor.)
- Coln Controlled Lock Company. (See King, Roy D., assignor.)
- Coln Machine Manufacturing Company. (See Potter, Thomas I., assignor.)
- Coince-Chevre, Léoline, Le Raincy, France. Telescopic rod with extensible sheath. No. 1,311,855; July 29; v. 264; p. 839.
- Coke, George M., assignor to The Fuller-Warren Co., Milwaukee, Wis. Cooking-range. No. 1,296,626; Mar. 11; v. 260; p. 218.
- Coker, Carl D., Detroit, Mich. Slide-closure. No. 1,313,580; Aug. 19; v. 265; p. 377.
- Coker, Clarence A., Cordova, Ala. Sanitary valve for fluid-dispensing apparatus. No. 1,301,229; Apr. 22; v. 261; p. 666.
- Colahan, Charles, Stockton, Cal. Tractor-engine. No. 1,297,104; Mar. 11; v. 260; p. 327.
- Colahan, Charles, Stockton, Calif. Traction-engine. No. 1,301,040; Apr. 15; v. 261; p. 591.
- Colardeau, Emmanuel L. P., assignor to H. Crochat, Paris, France. Explosion-engine. No. 1,307,896; June 24; v. 263; p. 591.
- Colborn, William G., Raven, Va. Automatic cut-off. No. 1,303,166; May 6; v. 262; p. 132.
- Colburn, Irving W., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing wire-glass. No. 1,323,389; Dec. 2; v. 269; p. 31.
- Colby, Arthur D. (See Banfield, Penney, and Colby.)
- Colby, Mark R. (See Pease, Dexter M., assignor.)
- Colby, Ora A. (See Thornton and Colby.)
- Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric furnace. No. 1,306,250; June 10; v. 263; p. 225.
- Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric furnace. No. 1,306,251; June 10; v. 263; p. 225.
- Colby, Ora A., Larimer, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,321,509; Nov. 11; v. 268; p. 281.
- Coldwell, Charles E., Tempe, assignor to Southwest Cotton Company, Phoenix, Ariz. Cleaning attachment for roller-gins. No. 1,326,441; Dec. 30; v. 269; p. 764.
- Cole, Albert J., Denver, Colo. Water-elevator. No. 1,291,768; Jan. 21; v. 258; p. 472.
- Cole, Albert L., Auburndale, Mass. Vehicle-tire. No. 1,305,196; May 27; v. 262; p. 614.
- Cole, Arthur D., St. Paul, Minn. Traction-belt. No. 1,319,207; Oct. 21; v. 267; p. 382.
- Cole, Arthur D., St. Paul, Minn. Walking-tractor. No. 1,320,741; Nov. 4; v. 268; p. 71.
- Cole, Cleveland W., Spokane, Wash., assignor to Cole Duplex Auto Signal Company. Automobile-signal. No. 1,310,410; July 22; v. 264; p. 539.
- Cole, Clifford E., Birmingham, Ala. Pipe connection. No. 1,307,537; June 24; v. 263; p. 526.
- Cole, Clifford W. (See Cole, George W. and C. W.)
- Cole, David. (See Easton and Cole.)
- Cole, David, El Paso, Tex. Apparatus for separating or concentrating ores. No. 1,319,208; Oct. 21; v. 267; p. 383.
- Cole, Don, Chicago, Ill., assignor to Waukesha Motor Co., Waukesha, Wis. Internal-combustion engine. No. 1,314,948; Sept. 2; v. 266; p. 87.
- Cole Duplex Auto Signal Company. (See Cole, Cleveland W., assignor.)
- Cole, Edward P., assignor to Cole Manufacturing Co., Chicago, Ill. Car-heater. No. 1,292,435; Jan. 28; v. 258; p. 657.
- Cole, Ernest E., Chicago, Ill. Vehicle-wheel. No. 1,325,779; Dec. 23; v. 269; p. 604.
- Cole, Eugene M., Charlotte, N. C. Planter. No. 1,290,090; Jan. 7; v. 258; p. 18.
- Cole, Eugene M., Charlotte, N. C. Planter. (Reissue.) No. 14,692; July 22; v. 264; p. 675.
- Cole, Eugene M., Charlotte, N. C. Seed mechanism for planters. No. 1,325,142; Dec. 16; v. 269; p. 468.
- Cole, Francis J., Schenectady, N. Y. Locomotive trailing truck. No. 1,311,875; Aug. 5; v. 265; p. 4.
- Cole, Francis J., Schenectady, N. Y. Locomotive trailing truck. No. 1,316,143; Sept. 16; v. 266; p. 329.
- Cole, Francis J., Schenectady, N. Y. Water-separator for locomotive-cylinders. No. 1,324,339; Dec. 9; v. 269; p. 255.
- Cole, Francis J., Schenectady, N. Y. Water-separator for locomotive steam-pipes. No. 1,324,340; Dec. 9; v. 269; p. 255.
- Cole, Frank. (See Dow, George B. W., assignor.)
- Cole, Frank. (See Dow and Cole.)
- Cole, Frederick W., Newton Highlands, Mass., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Electric switch. No. 1,294,053; Feb. 11; v. 259; p. 283.
- Cole, George A., New York, N. Y. Signal. No. 1,317,268; Sept. 30; v. 266; p. 624.
- Cole, George E., Tiffin, Ohio. Spectacle-case holder. No. 1,300,124; Apr. 8; v. 261; p. 369.
- Cole, George W., Grant, Mich. Holder for pillars. No. 1,324,879; Dec. 16; v. 269; p. 419.
- Cole, George W. and C. W., Camden, N. J. Gate. No. 1,324,647; Dec. 9; v. 269; p. 314.
- Cole-Goudie Shovel Company, The. (See Cole, William, assignor.)
- Cole, Gurney H., Mount Oliver, Pa., assignor to Westinghouse Electric and Manufacturing Company. Constant-current regulator. No. 1,306,525; June 10; v. 263; p. 275.
- Cole, Henry J., Gainesville, Tex. Rail-tie. No. 1,316,354; Sept. 16; v. 266; p. 368.
- Cole, Ira E., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical protective apparatus. No. 1,318,971; Oct. 14; v. 267; p. 312.
- Cole, John F., Somerville, Mass. Ship's log. No. 1,293,343; Feb. 4; v. 259; p. 86.
- Cole, John F., Somerville, Mass. Course-protractor. No. 1,313,520; Aug. 19; v. 265; p. 365.
- Cole, Luther F., assignor of one-half to E. H. Cochell, Sacramento, Calif. Locking means for incandescent lamps. No. 1,314,388; Aug. 26; v. 265; p. 564.
- Cole, Lytle W., Lansing, Mich. Folding box. No. 1,311,047; July 22; v. 264; p. 656.
- Cole Manufacturing Co. (See Cole, Edward P., assignor.)
- Cole Manufacturing Company. (See Dean, James H., assignor.)
- Cole, Melville R., assignor of one twenty-fourth to C. B. Floyd, one twenty-fourth to C. L. Fuller, Eudora, Kans., and one-twelfth to F. M. Butler, Excelsior Springs, Mo. Road-working machinery. No. 1,304,263; May 20; v. 262; p. 398.
- Cole, Ray E., Chicago Heights, Ill. Pocket flash-light battery and bulb-tester. No. 1,315,816; Sept. 9; v. 266; p. 253.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Cartridge-fuse. No. 1,309,508; July 8; v. 264; p. 305.
- Cole, Samuel F., Purcellville, Va. Electrical indicating device. No. 1,304,022; May 20; v. 262; p. 353.
- Cole, William, assignor to The Cole-Goudie Shovel Company, Ironwood, Mich. Pneumatic shovel. No. 1,321,983; Nov. 18; v. 268; p. 420.
- Cole, William L., East London, assignor to Quasi-Arc Company, Limited, London, England. Metal-plate construction and making same. No. 1,290,091; Jan. 7; v. 258; p. 19.
- Cole, William L., East London, assignor to Quasi-Arc Company, Limited, London, England. Ship's deck structure, bulkhead structure, and the like. No. 1,290,092; Jan. 7; v. 258; p. 19.
- Cole, William L., East London, assignor to Quasi-Arc Company, Limited, London, England. Ship construction. No. 1,290,093; Jan. 7; v. 258; p. 19.
- Cole, Willie J., Aberdeen, Wales, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Link for chain-grate stokers and the like. No. 1,311,497; July 29; v. 264; p. 774.
- Colegrove, Harold C., Detroit, Mich. Changeable sign. No. 1,319,513; Oct. 21; v. 267; p. 440.
- Colegrove, Harold S., Detroit, Mich. Davenport. No. 1,319,849; Oct. 28; v. 267; p. 527.
- Coleman, Allan J. (See Higdon and Coleman.)
- Coleman, Arthur, Kansas City, Mo. Steering mechanism. No. 1,308,890; July 8; v. 264; p. 190.
- Coleman, Charles S., assignor to The Coleman No-Leak Boiler Tube Company, Los Angeles, Calif. Boiler-tube connection. No. 1,299,396; Apr. 1; v. 261; p. 177.



- Coleman, Clyde J., New Rochelle, N. Y. Synchronizing mechanism. No. 1,290,094; Jan. 7; v. 258; p. 19.
- Coleman, Clyde J., New York, N. Y. Motion-picture film. No. 1,293,040; Feb. 4; v. 259; p. 16.
- Coleman, Clyde J., New Rochelle, N. Y. Combined moving-picture machinery and phonographic apparatus. No. 1,312,103; Aug. 5; v. 265; p. 48.
- Coleman, Clyde J., New Rochelle, assignor to Stern-Coleman Diamond Machine Company, Inc., New York, N. Y. Means for holding diamonds during abrasive treatment. No. 1,291,769; Jan. 21; v. 258; p. 473.
- Coleman, Clyde J., New Rochelle, assignor to Stern-Coleman Diamond Machine Company, Inc., New York, N. Y. Polishing-machine. No. 1,313,260; Aug. 19; v. 265; p. 317.
- Coleman du Pont Road. (See Upham, Charles M., assignor.)
- Coleman, Edward P. (See Island, James S., assignor.)
- Coleman Fare Box Company. (See Burrows, Aubrey A., assignor.)
- Coleman, Frederick A., Cleveland Heights, assignor to The Foundry Equipment Company, Cleveland, Ohio. Gasmixer. No. 1,293,041; Feb. 4; v. 259; p. 16.
- Coleman, Frederick A., Cleveland Heights, assignor to The Foundry Equipment Company, Cleveland, Ohio. Core-oven door. No. 1,307,483; June 24; v. 263; p. 516.
- Coleman, Frederick A., Shaker Heights, and L. O. Ambrose, Cleveland, assignors to The Foundry Equipment Company, Cleveland, Ohio. Safety device for core-oven doors. No. 1,314,572; Sept. 2; v. 266; p. 19.
- Coleman, George D., deceased, Buffalo, N. Y.; N. S. Coleman, executrix, Revere, Mass. Protective coating. No. 1,318,313; Oct. 7; v. 267; p. 125.
- Coleman, James M., Montreal, Quebec, Canada. Freight-car. No. 1,304,023; May 20; v. 262; p. 353.
- Coleman, James M., Westmount, assignor of one-half to K. F. Nystrom, St. Lamberts, Montreal, Quebec, Canada. Refrigerator-car. No. 1,305,772; June 3; v. 263; p. 102.
- Coleman, James M., and K. F. Nystrom, Montreal, Quebec, Canada. Car-truck. No. 1,321,889; Nov. 18; v. 268; p. 403.
- Coleman, John P. (See Waldron and Coleman.)
- Coleman, John P., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controller. No. 1,321,809; Nov. 18; v. 268; p. 388.
- Coleman, Maurice B., assignor of one-half to M. J. Vail, Newton, Mass. Soap-holding attachment for faucets. No. 1,300,248; Apr. 15; v. 261; p. 422.
- Coleman, Nellie S., executrix. (See Coleman, George D.)
- Coleman No-Leak Boiler Tube Company, The. (See Coleman, Charles S., assignor.)
- Coleman, Robert B., Los Angeles, Calif. Composite stick. No. 1,310,004; July 15; v. 264; p. 434.
- Coleman, Stephen L. C., assignor of forty-nine one-hundredths to C. W. Whelpley, Fredericton, New Brunswick, Canada. Vehicle suspension. No. 1,297,325; Mar. 18; v. 260; p. 404.
- Coleman, Stephen L. C., assignor of forty-nine one hundredths to C. W. Whelpley, Fredericton, New Brunswick, Canada. Vibration-check for vehicles. No. 1,299,131; Apr. 1; v. 261; p. 117.
- Coleman, Stephen L. C., assignor of forty-nine one hundredths to C. W. Whelpley, Fredericton, New Brunswick, Canada. Vehicle suspension. No. 1,323,453; Dec. 2; v. 269; p. 43.
- Coleman, Stephen R., assignor to Western Bank Supply Company, Oklahoma, Okla. Ledger-binder tray. No. 1,290,512; Jan. 7; v. 258; p. 120.
- Coleman, Walter M., Baltimore, Md. Game. No. 1,310,177; July 15; v. 264; p. 465.
- Coleman, Walter R., assignor of one-half to A. E. Alberger, Omaha, Nebr. Combined folding square and level. No. 1,298,010; Mar. 25; v. 260; p. 575.
- Coleman, William C., Wichita, Kans. Vapor-burner. No. 1,303,462; May 13; v. 262; p. 212.
- Coley, Joseph, Worcester, Mass. Woven pile fabric. No. 1,305,066; May 27; v. 262; p. 589.
- Colgan, James W., et al. (See Scott, Jacob R., assignor.)
- Colgate & Co. (See Jenkins, Walter S., assignor.)
- Colias, Alexander P., Detroit, Mich. Cooking apparatus. No. 1,312,833; Aug. 12; v. 265; p. 217.
- Colin, Edward. (See Dussart and Colin.)
- Coll, Leo F., Baltimore, Md. Steel-plate-rivet-hole-spacing table. No. 1,325,191; Dec. 16; v. 269; p. 478.
- Collett, Emil, Christiania, Norway. Manufacture of ammonium perchlorate. No. 1,303,167; May 6; v. 262; p. 132.
- Collette, Joseph Z., Jr., Fitchburg, Mass. Window-screen. No. 1,306,329; June 10; v. 263; p. 239.
- Collier, David R. (See Peterson and Collier.)
- Collier, Edward M., Petersburg, Va. Check-wire for planters. No. 1,298,898; Apr. 1; v. 261; p. 64.
- Collier, Frederick W., Worcester, Mass., assignor to Packmore Manufacturing Company, Washington, D. C. Brush-adjusting means for cleaning-machines. No. 1,313,261; Aug. 19; v. 265; p. 317.
- Collier, Guy B., Kinderhook, N. Y. Rotary tooth-brush. No. 1,318,647; Oct. 14; v. 267; p. 249.
- Collier Keyworth Company. (See Peterson and Collier, assignors.)
- Collier, William H., Nashville, Tenn. Automobile-starter and electric generator. No. 1,322,409; Nov. 18; v. 268; p. 501.
- Collier, William R., Austin, Tex. Gun. No. 1,318,357; Oct. 14; v. 267; p. 194.
- Collin, Henry, New York, N. Y. Detachable heel. No. 1,301,654; Apr. 22; v. 261; p. 746.
- Collin, Joseph A., deceased, assignor of one-half to R. Roulier, Cohoes, N. Y.; J. Collin, administratrix. Car-step-operating mechanism. No. 1,307,850; June 24; v. 263; p. 583.
- Collin, Julia, administratrix. (See Collin, Joseph A.)
- Colling, Ralph, San Francisco, Calif. Musical instrument. No. 1,312,614; Aug. 12; v. 265; p. 175.
- Collins, Benjamin J., Supply, Okla. Combination level and grade-finder. No. 1,300,818; Apr. 15; v. 261; p. 543.
- Collins, Caleb G., Kellys Ford, Va., assignor to C. A. Stevens, New York, N. Y. Separation of sulfur from furnace-gases. No. 1,314,634; Sept. 2; v. 266; p. 30.
- Collins, Charles S., New York, and L. Roessel, Brooklyn, N. Y. Proportioning-regulator for fluids. No. 1,290,513; Jan. 7; v. 258; p. 121.
- Collins, Cornelius, Burlingame, Calif. Metal partition construction. No. 1,313,581; Aug. 19; v. 265; p. 377.
- Collins, Earl G., Pembroke, Ky. Harrow. No. 1,299,553; Apr. 8; v. 261; p. 241.
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company, Electric-resistance furnace. No. 1,310,060; July 15; v. 264; p. 444.
- Collins, Edward P., Chicago, Ill. Elevator. No. 1,311,262; July 29; v. 264; p. 729.
- Collins, Frank F., Danville, Ill. Valve. No. 1,297,446; Mar. 18; v. 260; p. 428.
- Collins, Frank R., Hunter, N. D. Egg-beater. No. 1,320,603; Nov. 4; v. 268; p. 46.
- Collins, George A., assignor of one-half to S. G. Marshutz, Los Angeles, Calif. Lens and producing same. No. 1,297,660; Mar. 18; v. 260; p. 473.
- Collins, James H., Harrisburg, Pa. Radiator. No. 1,297,447; Mar. 18; v. 260; p. 429.
- Collins, James N. (See Hamilton, Ernest L., assignor.)
- Collins, Jess L., Deatsville, Ala. Combined minnow seine and trap. No. 1,317,555; Sept. 30; v. 266; p. 680.
- Collins, John S. (See Bowers, Thomas L., assignor.)
- Collins, Paul H., Penns Grove, N. J. Ash-tray. No. 1,294,403; Feb. 18; v. 259; p. 399.
- Collins, Raymond W., assignor to Motor Products Corporation, Detroit, Mich. Wind-shield construction. No. 1,295,697; Feb. 25; v. 259; p. 722.
- Collins, Roy W., Newton, assignor to The West Newton Company, West Newton, Mass. Contactor. No. 1,322,879; Nov. 25; v. 268; p. 640.
- Collins, Thomas E., Chicago, Ill. Automatic fire-shutter. No. 1,290,514; Jan. 7; v. 258; p. 121.
- Collins, Thomas J., and R. B. Jordan, Brownwood, Tex. Tire-carrier. No. 1,296,768; Mar. 11; v. 260; p. 251.
- Collins, Ulysses L., Encanto, Cal. Electric clock. No. 1,296,048; Mar. 4; v. 260; p. 53.
- Collins, William D., assignor of one-half to G. W. H. Allen, Cazenovia, N. Y. Combined liquid-gage and temperature-indicator. No. 1,301,910; Apr. 29; v. 261; p. 826.
- Collis, Alfred, London, England. Elevating-truck, transporter, or the like. No. 1,295,698; Feb. 25; v. 259; p. 722.
- Collis, Fred L., Iowa Falls, Iowa. Sweeper. No. 1,316,355; Sept. 16; v. 266; p. 369.
- Collis, Henry J., Taunton, Mass. Skate-strap. No. 1,319,269; Oct. 21; v. 267; p. 394.
- Collis, Norman P. (See Schnitzen and Collis.)
- Collis, Norman P., Dubuque, assignor to Collis Products Company, Clinton, Iowa. Apparatus for desiccating liquids. No. 1,317,777; Oct. 7; v. 267; p. 22.
- Collis, Oliver D. (See Schnitzen and Collis, assignors.)
- Collis Products Company. (See Collis, Norman P., assignor.)
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Winder. No. 1,293,042; Feb. 4; v. 259; p. 16.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Textile apparatus. No. 1,304,661; May 27; v. 262; p. 513.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Warp-handling machine. No. 1,306,138; June 10; v. 263; p. 201.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Winder. No. 1,311,498; July 29; v. 264; p. 774.
- Colona Manufacturing Company. (See Shrum, Peter J., assignor.)
- Colonna, Benito. (See Sartorius, Gándara, and Colonna.)
- Colford, Harry C. (See Putnam, Israel C., assignor.)
- Colquhoun, Roy D., assignor to Parker Rust-Proof Company of America, Detroit, Mich. Rust-proofing iron and steel. No. 1,311,319; July 29; v. 264; p. 740.
- Colson, Walter W., Jacksonville, Fla. Hose-supporter. No. 1,320,207; Oct. 28; v. 267; p. 593.



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- Colt, Samuel S., Orange, N. Y. Molding apparatus. No. 1,293,344; Feb. 4; v. 259; p. 86.
- Colt's Patent Fire Arms Manufacturing Company. (See Browning, John M., assignor.)
- Columbia Axle Company, The. (See Fay, Horace B., assignor.)
- Columbia Clutch Company, The. (See Ferguson, Fergus F., assignor.)
- Columbia Fastener Company. (See Kositchek, Leo S., assignor.)
- Columbia Fastener Company. (See Simek, Frank, assignor.)
- Columbia Graphophone Manufacturing Company. (See Cherney, Joseph B., assignor.)
- Columbia Ice Cream Horn Company. (See Snyder, Jacob L., assignor.)
- Columbia Machine & Stopper Co. (See Kendall, Carl W., assignor.)
- Columbia Machine Works & Malleable Iron Co. (See Cramer, August N., assignor.)
- Columbia River Shipbuilding Corporation. (See Spillane, John J., assignor.)
- Columbia Wood Tool Company. (See Litzenberg, Otto W., assignor.)
- Columbian Enameling & Stamping Company. (See Cooke, Raymond D., assignor.)
- Columbian Hardware Company, The. (See Yost, Gilmore M., assignor.)
- Columbus Glass Company, The. (See Campbell, James H., assignor.)
- Columbus Glass Company, The. (See Moore, Charles T., assignor.)
- Columbus McKinnon Chain Co., The. (See Armstrong, George J., assignor.)
- Columbus Steel Products Company, The. (See Simpson, Robert D., assignor.)
- Colvin, Chester A., and J. O. Goddard, Little Rock, Ark. Subsoiler attachment for plows. No. 1,324,731; Dec. 9; v. 269; p. 330.
- Colvin, Joshua B., Baltimore, Md. Union-garment. No. 1,321,597; Nov. 11; v. 268; p. 297.
- Colwell, Allen J., Providence, R. I., assignor to Colwell Cigar Machine Company Incorporated. Machine for making cigars. No. 1,303,855; May 20; v. 262; p. 323.
- Colwell, Alvah J., and A. T. Kenney, Norfolk, Nebr. Plow-lift for tractors. No. 1,315,286; Sept. 9; v. 266; p. 159.
- Colwell Cigar Machine Company. (See Colwell, Allen J., assignor.)
- Colwell, Robert C., Beaver Falls, Pa. Camera. No. 1,298,296; Mar. 25; v. 260; p. 636.
- Combination Auto Lock Company. (See Balthasar, Harry G., assignor.)
- Combination Police Club and Extension Pistol Barrel Corporation. (See Moor, Edward N., assignor.)
- Combs, Albert B., and F. A. Bullington; said Bullington assignor of one-half of the right to E. G. Smith, Portland, Oreg. Cylinder-grinding machine. No. 1,308,166; July 1; v. 264; p. 29.
- Combs, James M., Akron, Ohio. Bathing-suit or life-preserver. No. 1,314,185; Aug. 26; v. 265; p. 525.
- Combs, Perley A., Portland, assignor to Beaver State Motor Co., Gresham, Oreg. Clutch. No. 1,300,819; Apr. 15; v. 261; p. 543.
- Combs, Presley S., Jr., Chicago, Ill. Pipe connection. No. 1,326,392; Dec. 30; v. 269; p. 754.
- Combustion Economy Corporation. (See Grindle, Aubrey J., assignor.)
- Combustion Engineering Corporation. (See Van Brunt, John, assignor.)
- Combustion Service Corporation. (See Masser, Allan M., assignor.)
- Combustion Specialty Co. (See Manhire, William J., assignor.)
- Comer, John J., assignor to Automatic Enunciator Company, Chicago, Ill. Transmitting apparatus. No. 1,305,525; June 3; v. 263; p. 55.
- Comerford, John, St. Louis, Mo. Crank-lock for automobiles. No. 1,300,125; Apr. 8; v. 261; p. 369.
- Comey, Arthur M., Chester, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Explosive and producing the same. No. 1,301,105; Apr. 22; v. 261; p. 640.
- Comly, T. E. (See O'Neill and Comly.)
- Commercial Cars Construction Co. (See Rogers, Solomon D., assignor.)
- Commercial Electrolytic Corporation. (See Laughlin, Robert, assignor.)
- Commercial Electrolytic Corporation. (See Levin, David, assignor.)
- Commercial Electrolytic Corporation. (See Levin and Molin, assignors.)
- Commercial Research Company, The. (See Hibbert, Harold, assignor.)
- Commercial Specialty Company. (See Kimball, Don L., assignor.)
- Commercial Truck Company of America. (See Melia, Martin, assignor.)
- Commercial Utilities Manufacturing Company. (See Gullborg, Arthur V., assignor.)
- Commonwealth Steel Company. (See Pflager, Harry M., assignor.)
- Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
- Como, Pasquale W. (See Tolentini, Filippo, assignor.)
- Compagnie Conadi. (See Sciarra, Peter, assignor.)
- Compagnie D'Applications Mecaniques. (See Bellard, Paul M., assignor.)
- Compagnie D'Applications Mecaniques. (See Rouanet, Louis, assignor.)
- Compagnie des Forges et Acieries de la Marine et D'Home-court. (See Rimailho, Emile, assignor.)
- Compagnie des Produits Chimiques d'Alais et de la Camargue. (See Guyot, Alfred, assignor.)
- Compagnie des Transporteurs Simplex. (See Fouchy, Albert, assignor.)
- Compagnie General Des Etablissements Pathe Freres, Phonographe et Cinematographe. (See Janot, Louis, assignor.)
- Compagnie Generale des Etablissements Pathe Freres, Phonographe et Cinematographe. (See Marette, Jacques, assignor.)
- Compagnie Nationale de Matieres Colorantes et de Produits Chimiques. (See Bourcart, Emmanuel A., assignor.)
- Compagnie Pour La Fabrication Des Compteurs et Materiel d'Usines a Gaz. (See Heeley, George, assignor.)
- Compagnon, Alexandre, Saco, Me., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-detecting mechanism. No. 1,291,415; Jan. 14; v. 258; p. 358.
- Compere, Dolphus E., Dallas, Tex. Mechanical device for concentrating vision. No. 1,313,262; Aug. 19; v. 265; p. 317.
- Compos, James W., Cleveland, Ohio. Scale-holder. No. 1,302,311; Apr. 29; v. 261; p. 903.
- Compress Buckle Company. (See Horsley, Robert L., assignor.)
- Compressed Wood Preserving Company, The. (See Frey, George W., assignor.)
- Comptograph Company. (See Niemann, Frederick A., assignor.)
- Compton, Glenn A., assignor of one-half to G. B. Elwood, Minneapolis, Minn. Collapsible arch-form. No. 1,294,239; Feb. 11; v. 259; p. 327.
- Compton, Glenn A., A. B. Ness, Minneapolis, W. H. Gausewitz and G. A. Green, St. Paul, assignors to Everlast Manufacturing Company, Incorporated, Minneapolis, Minn. Collapsible arch-form. No. 1,306,172; June 10; v. 263; p. 207.
- Compton, Harry L., assignor to American Dairy Supply Company, Washington, D. C. Attached-handle closure-disk. No. 1,313,674; Aug. 19; v. 265; p. 394.
- Compton, John D., Indianapolis, Ind. Brake-operating mechanism. No. 1,307,484; June 24; v. 263; p. 517.
- Compton, John H., Nottingham, England. Controlling-circuits of pallet-actuating magnets for automatic organs. No. 1,312,386; Aug. 5; v. 265; p. 99.
- Compton, John H., Nottingham, England. Automatic organ. No. 1,320,317; Oct. 28; v. 267; p. 614.
- Computing Scale Company, The. (See Hopkinson, Joseph, assignor.)
- Computing Scale Co., The. (See Schantz, Edwin M., assignor.)
- Computing-Tabulating-Recording Company. (See Bryce, James W., assignor.)
- Comstock, Clark S., Sr., East Orange, N. J. Garment-slide. No. 1,290,914; Jan. 14; v. 258; p. 243.
- Comstock, Frederick E., assignor of one-half to R. S. Wheeler, Valparaiso, Ind. Anti-freezing circulator. No. 1,309,243; July 8; v. 264; p. 256.
- Comstock, Rena G., Miami, Fla. Curtain-holder. No. 1,325,463; Dec. 16; v. 269; p. 527.
- Conant, Bessie R., et al., executors. (See Roper and Conant.)
- Conant, Franklin N., assignor to Chase-Shawmut Company, Newburyport, Mass. Renewable fuse. No. 1,299,132; Apr. 1; v. 261; p. 117.
- Conant, Leon B., Cambridge, Mass. Heel. No. 1,298,011; Mar. 25; v. 260; p. 575.
- Conant, Louis F., Cambridge, Mass. Apparatus for reclaiming precious metals from ores. No. 1,318,134; Oct. 7; v. 267; p. 90.
- Concannon, William F., Bridgeport, and F. E. Kiefer, Milford, Conn. Rotary brush. No. 1,304,543; May 27; v. 262; p. 492.
- Concrete Forms Company, The. (See Branson and Strathmann, assignors.)
- Concrete Steel Company. (See Brooks, David W., assignor.)
- Condensite Company of America. (See Brown, Kirk, assignor.)
- Condit, S. B., Jr. (See Schiffert, Daniel M., assignor.)
- Condit, Sears B., Jr. (See Ainsworth, Chester D., assignor.)
- Condit, Sears B., Jr. (See Burnham, George A., assignor.)
- Condit, Sears B., Jr. (See Cameron, Gordon, assignor.)
- Condon, Thomas M., Valley City, N. D. Fan. No. 1,324,231; Dec. 9; v. 269; p. 234.
- Condron, Daniel D. (See Williams, Willis D., assignor.)
- Condron, Daniel D., assignor to Williams Boltless Rail Joint Manufacturing Company, Prescott, Ariz. Rail-joint. No. 1,309,275; July 8; v. 264; p. 262.



- Cone, Charles S., La Crosse, Wis., assignor to Spengler-Loomis Manufacturing Company. Paper-fastening machine. No. 1,324,103; Dec. 9; v. 269; p. 210.
- Cone, Charles S., La Crosse, Wis., assignor to Spengler-Loomis Manufacturing Company. Paper-fastening. No. 1,324,144; Dec. 9; v. 269; p. 217.
- Cone, Frank L., Windsor, Vt. Spindle-bearing. No. 1,319,923; Oct. 28; v. 267; p. 543.
- Cone, Frank L., Windsor, Vt. Nut-tapping machine. No. 1,325,888; Dec. 23; v. 269; p. 624.
- Cone, Frank L., Windsor, Vt., assignor, by mesne assignments, to The National-Acme Company, Cleveland, Ohio. Single-drive metal-working machine. No. 1,303,216; May 6; v. 262; p. 141.
- Cone, Joseph L., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,301,911; Apr. 29; v. 261; p. 828.
- Cone, Ralph R., Huntington Park, Calif., assignor to The Wigwam Co., Inc., Syracuse, N. Y. Doll. No. 1,322,733; Nov. 25; v. 268; p. 613.
- Cone, Ralph R., assignor to The Wigwam Co., Inc., Syracuse, N. Y. Eye-moving mechanism for dolls. No. 1,322,763; Nov. 25; v. 268; p. 619.
- Conerty, Peter F. (See Skidmore, Charles J., assignor.)
- Condon, Charles H., East Stroudsburg, Pa. Retainer. No. 1,304,455; May 20; v. 262; p. 436.
- Conger, Henry M. (See Travis, Asher O., assignor.)
- Conger, Hugh E., and C. W. Waller, Chicago, Ill. Carcass-splitting machine. No. 1,313,579; Aug. 19; v. 265; p. 377.
- Conger, Wayne O., *et al.* (See Hasty, Charles E., assignor.)
- Congoleum Company, The. (See Cheney, John T., assignor.)
- Congoleum Company, The. (See Prifold, George, assignor.)
- Conklin, Bruce, London, England. Internal-combustion rotary engine. No. 1,294,771; Feb. 18; v. 259; p. 486.
- Conklin, Bruce, London, England. Rotary engine. No. 1,326,252; Dec. 30; v. 269; p. 729.
- Conklin, Chester C. (See Swain, Mack M., assignor.)
- Conklin, Frederick S., Yonkers, N. Y. Combined table. No. 1,309,509; July 8; v. 264; p. 305.
- Conklin, Harry R., Joplin, Mo. Apparatus for cleaning coal, &c. No. 1,290,515; Jan. 7; v. 258; p. 121.
- Conklin, Harry R., Joplin, Mo. Cleaning coal and the like. No. 1,290,516; Jan. 7; v. 258; p. 121.
- Conklin, Oliver E. (See Hollnagel and Conklin.)
- Conklin, Oliver E., Boston, H. P. Hollnagel, West Newton, Mass. Light-projection apparatus. No. 1,299,397; Apr. 1; v. 261; p. 177.
- Conklin Pen Manufacturing Company, The. (See Luck, Charles A., assignor.)
- Conklin Pen Manufacturing Company, The. (See Mooney, Frank H., assignor.)
- Conklin, Wade C., Highland Park, Mich. Flasher. No. 1,311,437; July 29; v. 264; p. 762.
- Conkling, Samuel G. (See Schaffert and Conkling.)
- Conkling, Samuel G., Brooklyn, N. Y. Shock-absorber. No. 1,305,065; May 27; v. 262; p. 589.
- Conlee, Clay M., Modesto, Calif. Clothespin. No. 1,321,598; Nov. 11; v. 268; p. 298.
- Conley, Fred V. (See Matter and Conley.)
- Conley, Frederick T., Jamaica Plain, Mass. Expanding and cutting-off tool. No. 1,294,404; Feb. 18; v. 259; p. 399.
- Conley, Frederick T., Boston, Mass. Hot-pan lifter. No. 1,320,318; Oct. 28; v. 267; p. 614.
- Conley, Robert E., *et al.* (See Nicholson, Alonzo L., assignor.)
- Conley, William A., Needham Heights, Mass., assignor to Central Railway Signal Company, Pittsburgh, Pa. Bonnet for caps of railway-signal fuses. No. 1,301,655; Apr. 22; v. 261; p. 747.
- Conlin, Claude A., Los Angeles, Calif. Speaker's prompter. No. 1,319,139; Oct. 21; v. 267; p. 368.
- Conlin, William P. (See Heath and Conlin.)
- Conlon, Robert F., Manchester, England. Cock and the like. No. 1,309,018; July 8; v. 264; p. 215.
- Conlon, Walter J., Chicago, Ill. Washing-machine. No. 1,298,899; Apr. 1; v. 261; p. 64.
- Conn, Byron O. (See Root, Charles F., assignor.)
- Conn, Charles A., Anacosta, Mont. Valve. No. 1,310,980; July 22; v. 264; p. 644.
- Conn, George B., Omaha, Nebr. Level. No. 1,313,263; Aug. 19; v. 265; p. 317.
- Conn, J. C., *et al.* (See Webb, George W., assignor.)
- Connecticut Brass & Manufacturing Corporation, The. (See Cross, Henry T., assignor.)
- Connecticut Dynamo and Motor Company. (See Flynn, John J., assignor.)
- Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)
- Connecticut Electric Mfg. Co., The. (See Schoenberg, Ralph A., assignor.)
- Connecticut Telephone & Electric Company. (See Cavanagh, John F., assignor.)
- Connecticut Telephone & Electric Company. (See Cauleux, Joseph O., assignor.)
- Connecticut Telephone & Electric Company. (See Donle, Harold P., assignor.)
- Connecting Link Company, The. (See Keator, Charles D., assignor.)
- Connell, Andrew J. (See Cohen and Connell.)
- Connell, David A., Los Angeles, Cal. Counterbalancing mechanism for single-acting pumps. No. 1,295,005; Feb. 18; v. 259; p. 539.
- Connell, Thomas, Iowa City, Iowa. Damper-regulator. No. 1,302,635; May 6; v. 262; p. 29.
- Connolly, Lyman H., Osierfield, Ga. Package-tie. No. 1,322,410; Nov. 18; v. 268; p. 501.
- Connolly, Michael J. (See Goldman and Connolly.)
- Conner, Harry M., Scranton, Pa. Self-loading scraper. No. 1,326,325; Dec. 30; v. 269; p. 742.
- Conner, Oliver E., Jr., Hartwell, Ohio. Gun-sight. No. 1,306,173; June 10; v. 263; p. 208.
- Connolly, James H., El Paso, Tex. Wind-motor. No. 1,294,877; Feb. 18; v. 259; p. 510.
- Connolly, James H., East Boston, Mass. Flagpole-supporting device. No. 1,296,049; Mar. 4; v. 260; p. 53.
- Connolly, James J. (See Huff, William D., assignor.)
- Connolly, John E., Racine, Wis. Garbage-can flytrap. No. 1,321,286; Nov. 11; v. 268; p. 239.
- Connolly, John J., Pittsburgh, assignor of one-third to T. H. Flynn, Knoxville, and one-third to F. A. Gallagher, Pittsburgh, Pa. Internal-combustion engine. No. 1,312,387; Aug. 5; v. 265; p. 99.
- Connolly, Charles B., Scotia, N. Y., assignor to General Electric Company. Electric-railway control system. No. 1,298,462; Mar. 25; v. 260; p. 670.
- Conner, Lawrence E., Jackson, Mich. Transmission mechanism for automobiles. No. 1,297,105; Mar. 11; v. 260; p. 327.
- Connor, Herschel M., and D. D. Miles, assignors of one-half to A. H. Herbert, one-fourth to M. C. Miles, and one-fourth to P. I. Connor, San Francisco, Calif. Carbureter. No. 1,313,521; Aug. 19; v. 265; p. 365.
- Connor, James L., San Jose, Calif. Reclining frame. No. 1,314,857; Sept. 2; v. 266; p. 71.
- Connor, John H., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. No. 1,302,995; May 6; v. 262; p. 98.
- Connor, Fanny I., *et al.* (See Connor and Miles, assignors.)
- Connor, Robert A., assignor to Thordarson Electric Manufacturing Co., Chicago, Ill. Transformer. No. 1,314,305; Aug. 26; v. 265; p. 548.
- Connor, Robert D., and R. F. Slinger, Manchester, England. Apparatus for hammering the dies of wire-drawing machines. No. 1,310,968; July 22; v. 264; p. 641.
- Connor, Thomas F., Decorah, Iowa. Envelop-opener. No. 1,302,514; May 6; v. 262; p. 7.
- Connors, Lewis, Black's Harbour, New Brunswick, Canada. Top for tin cans. No. 1,295,699; Feb. 25; v. 259; p. 722.
- Connors, Thomas. (See Wackman and Connors.)
- Conord, Herbert C., Brooklyn, N. Y. Film-splicing tool. No. 1,319,209; Oct. 21; v. 267; p. 383.
- Conover, Cairy C. (See Spitzer and Conover.)
- Conover, Courtney, Philadelphia, Pa. Apparatus for bringing about and controlling reactions between gases. No. 1,324,443; Dec. 9; v. 269; p. 275.
- Conover, Courtney, Philadelphia, Pa., and H. D. Gibbs, San Francisco, Calif. Purification of crude phthalic anhydride. No. 1,301,388; Apr. 22; v. 261; p. 698.
- Conover, Courtney, Philadelphia, Pa., and H. D. Gibbs, San Francisco, Calif. Manufacture of anthraquinone. No. 1,303,168; May 6; v. 262; p. 132.
- Conover, George W., Harrisburg, Ill. Screen-sash. No. 1,308,625; July 1; v. 264; p. 113.
- Conover, Hugh B., Steubenville, Ohio. Electrode. No. 1,322,163; Nov. 18; v. 268; p. 454.
- Conrad, Frank. (See Moss, Hanker, Travers, and Conrad.)
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Side lamp for automobiles. No. 1,296,482; Mar. 4; v. 260; p. 148.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,296,483; Mar. 4; v. 260; p. 148.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for gas-engines. No. 1,317,269; Sept. 30; v. 266; p. 625.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,318,728; Oct. 14; v. 267; p. 265.
- Conrad, Frank, Pittsburgh, and C. Aalborg, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Hand-grenade. No. 1,304,544; May 27; v. 262; p. 492.
- Conrad, Frank, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Radiotelegraphy system. No. 1,314,789; Sept. 2; v. 266; p. 59.
- Conrad, John F., Nettleton, Pa. Cable-connector. No. 1,316,688; Sept. 23; v. 266; p. 481.
- Conrad, Nicholas J. (See Schweitzer and Conrad.)
- Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Method of and means for switching current-flow at high potential. No. 1,294,621; Feb. 18; v. 259; p. 450.



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- Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Spark indicator and intensifier. No. 1,316,560; Sept. 23; v. 266; p. 456.
- Conrader, Rudolph, Erie, Pa. Making plunger-cups. No. 1,294,405; Feb. 18; v. 259; p. 400.
- Conrader, Rudolph, Erie, Pa. Lubricator. No. 1,316,832; Sept. 16; v. 266; p. 507.
- Conradson, Conrad M., Madison, Wis. Circular milling-machine. No. 1,314,635; Sept. 2; v. 266; p. 31.
- Conradson, Conrad M., Madison, Wis., assignor, by mesne assignments, to Landis Tool Company, Waynesboro, Pa. Metal-working machine. No. 1,316,221; Sept. 16; v. 266; p. 343.
- Conran, Frederick M., Elizabeth, N. J., assignor to The Metals Plating Company, New York, N. Y. Automatic sheet-feeding mechanism. No. 1,301,656; Apr. 22; v. 261; p. 747.
- Conran, Frederick M., Elizabeth, N. J., assignor to The Metals Plating Company, New York, N. Y. Automatic sheet-feeding mechanism. No. 1,301,799; Apr. 22; v. 261; p. 777.
- Conrath, Bernard, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Adjustable brake-head. No. 1,315,932; Sept. 9; v. 266; p. 276.
- Conrow, George W., Brooklyn, N. Y. Roller-bearing. No. 1,301,389; Apr. 22; v. 261; p. 698.
- Consoletti, Antonio. (See Grano, Luigi, assignor.)
- Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
- Consolidated Machine Company. (See Walter, Hugo, Jr., assignor.)
- Consolidated Railway Electric Lighting and Equipment Company. (See Kennedy, Patrick, assignor.)
- Consolidated Shipbuilding Corporation. (See Christen, Albert, assignor.)
- Constable, John P., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph or talking-machine. No. 1,304,158; May 20; v. 262; p. 378.
- Constantine, Michael H., Franklinville, N. Y. Level. No. 1,294,878; Feb. 18; v. 259; p. 511.
- Constantinesco, George Alpertou, assignor of one-half to W. Haddon, London, England. Hydraulic transmission. No. 1,4738; Oct. 14; v. 267; p. 324.
- Construction Appliance Company. (See Hallett, Fred N., assignor.)
- Consumers Company. (See Hertel, Otto H., assignor.)
- Contardi, Angelo. (See Mascariini and Contardi.)
- Conterio, James A., San Francisco, Calif. Corner-bracket. No. 1,325,143; Dec. 16; v. 269; p. 468.
- Continental Can Company. (See Abrams and Parker, assignors.)
- Continental Can Company. (See Finnigan, Eugene E., assignor.)
- Continental Can Company. (See Fluck, George, assignor.)
- Continental Can Company. (See Taliaferro, John C., assignor.)
- Continental Can Company. (See Warme, Ivar F., assignor.)
- Continental Can Company. (See Warme and Taliaferro, assignors.)
- Continental Gin Company. (See Munger, Eugene, assignor.)
- Continental Gin Company. (See Munger, Robert S., assignor.)
- Continental Lens Co., The. (See Quimby, Clarence E., assignor.)
- Continental Motors Corporation. (See Weinhardt, Robert A., assignor.)
- Continuous Casting Corporation. (See Mellen, Grenville, assignor.)
- Converse, Atherton D., Winchendon, Mass. Spinning-top. No. 1,324,997; Dec. 16; v. 269; p. 441.
- Converse, Atherton D., Winchendon, Mass. Spinning-top. No. 1,324,998; Dec. 16; v. 269; p. 441.
- Converse, Atherton D., Winchendon, Mass. Spinning-top. No. 1,324,999; Dec. 16; v. 269; p. 441.
- Converse, Atherton D., Winchendon, Mass. Spinning-top. No. 1,325,000; Dec. 16; v. 269; p. 441.
- Converse, Atherton D., Winchendon, Mass., assignor to Morton E. Converse & Son Co. Child's vehicle. No. 1,315,093; Sept. 2; v. 266; p. 114.
- Converse, Dan M., Albert, Kans. Detachable grain-header. No. 1,312,388; Aug. 5; v. 265; p. 100.
- Converse, Dan M., Albert, Kans. Grain-header attachment for tractors. No. 1,312,389; Aug. 5; v. 265; p. 100.
- Converse, Francis B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building machine. No. 1,316,356; Sept. 16; v. 266; p. 369.
- Converse, Francis B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Machine for making cord tires. No. 1,319,695; Oct. 28; v. 267; p. 497.
- Converse, Francis B., and J. L. Butler, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Tread-rolling apparatus. No. 1,314,733; Sept. 2; v. 266; p. 49.
- Converse Rubber Shoe Company. (See Paterson, Morton L., assignor.)
- Converse, Tommy J., Bellingham, Wash. Reinforcement for tire-casings. No. 1,313,792; Aug. 19; v. 265; p. 416.
- Convery, John J., New York, N. Y., assignor to Kelly-Springfield Tire Company, Akron, Ohio. Tire-building machine. No. 1,320,319; Oct. 28; v. 267; p. 614.
- Conway, George W., Newark, N. J. Resilient wheel. No. 1,296,925; Mar. 11; v. 260; p. 287.
- Conway, John L., Sheffield, England. Miner's hand-lamp. No. 1,319,758; Oct. 28; v. 267; p. 510.
- Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,324,798; Dec. 16; v. 269; p. 405.
- Conway, Wiley W., Huron, Ariz. Cotton-gin. No. 1,325,435; Dec. 16; v. 269; p. 522.
- Conwell, Laura E. (See Conwell, Myers C., assignor.)
- Conwell, Myers C. (See Conwell, Laura E., assignor.)
- N. Y. Auxiliary oiler for engines. No. 1,317,961; Oct. 7; v. 267; p. 57.
- Cook, Adiram J., Westerlo, N. Y. Garment-stay. No. 1,306,883; June 17; v. 263; p. 373.
- Cook, Albert. (See Black and Cook.)
- Cook, Albert E., Chicago, Ill. Boat construction. No. 1,316,357; Sept. 16; v. 266; p. 369.
- Cook, August, Columbus, Ohio. Shield for roll-bearings. No. 1,315,094; Sept. 2; v. 266; p. 114.
- Cook, Carl B., Haddonfield, N. J. Calendar. No. 1,310,905; July 22; v. 264; p. 630.
- Cook, Charles F., Houston Heights, Tex. Cooking-stove. No. 1,297,545; Mar. 18; v. 260; p. 449.
- Cook, Daniel. (See Gallimore and Cook.)
- Cook, David S., Salt Lake City, Utah. Agricultural implement. No. 1,297,546; Mar. 18; v. 260; p. 449.
- Cook, De Loyd K., Maquoketa, Iowa. Float-valve. No. 1,310,560; July 22; v. 264; p. 566.
- Cook, Edward M., Oberlin, Ohio. Shoe-heel. No. 1,290,095; Jan. 7; v. 258; p. 20.
- Cook, Ernest C., Chicago, Ill. Automatic stop for phonographs. No. 1,324,190; Dec. 9; v. 269; p. 226.
- Cook, Eugene. (See Bowers, Ernest C., assignor.)
- Cook, Frank, H. L. Gee, and F. W. Townsend, Pawamo, assignors to H. L. Gee and H. H. Gee, Lyons, Mich. Ice-sawing machine. No. 1,322,411; Nov. 18; v. 268; p. 501.
- Cook, Frank A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,306,950; June 17; v. 263; p. 386.
- Cook, Fred H., and E. B. Sandmann, Indianapolis, Ind. Tractor. No. 1,318,729; Oct. 14; v. 267; p. 265.
- Cook, Fred H., and E. B. Sandmann, Indianapolis, Ind. Tractor-frame. No. 1,323,835; Dec. 2; v. 269; p. 115.
- Cook, Frederick B., New York, N. Y. Mail-chute. No. 1,298,345; Feb. 4; v. 259; p. 86.
- Cook, Frederick B., New York, N. Y. Mail-chute. No. 1,294,331; Feb. 11; v. 259; p. 347.
- Cook, Frederick B., New York, N. Y. Label-holder. No. 1,294,332; Feb. 11; v. 259; p. 347.
- Cook, Frederick H., et al. (See Motter and Davis, assignors.)
- Cook, George, Buffalo, N. Y. Water-tube boiler. No. 1,290,096; Jan. 7; v. 258; p. 20.
- Cook, Irvin M., Cleveland, Ohio. Electric terminal box. No. 1,302,137; Apr. 29; v. 261; p. 870.
- Cook, James J., Baltimore, Md. Hinge for metal boxes or cans. No. 1,308,935; July 8; v. 264; p. 198.
- Cook, Jay, Coldwater, Mich. Clinker-burner. No. 1,308,936; July 8; v. 264; p. 198.
- Cook, Jay J., Iron River, Mich. Fish-basket or creel supporting harness. No. 1,302,312; Apr. 29; v. 261; p. 903.
- Cook, Jesse F., Meridian, Miss. Boll-weevil destroyer. No. 1,323,016; Nov. 25; v. 268; p. 667.
- Cook, Joel R., assignor to The Domestic Electric Company, Cleveland, Ohio. Electric motor-switch. No. 1,292,714; Jan. 28; v. 258; p. 724.
- Cook, Joel R., assignor to The Domestic Electric Company, Cleveland, Ohio. Electric-motor casing. No. 1,325,232; Dec. 16; v. 269; p. 485.
- Cook, Joel R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,308,043; July 1; v. 264; p. 7.
- Cook, Joel R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Support for electric controllers. No. 1,323,350; Dec. 2; v. 269; p. 24.
- Cook, John A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for cutting and beveling strips. No. 1,290,097; Jan. 7; v. 258; p. 20.
- Cook, John J., Monroe, La. Picture-hanger. No. 1,325,621; Dec. 23; v. 269; p. 574.
- Cook, John W., T. E. Leigh, J. Jowett, and N. Cook, Manchester, England. Apparatus for stripping carding-engines. No. 1,302,012; Apr. 29; v. 261; p. 847.
- Cook, John W., T. E. Leigh, and J. Jowett, Manchester, England. Apparatus for stripping carding-engines. No. 1,303,538; May 13; v. 262; p. 226.
- Cook, Judson, Albany, N. Y. Antirattler brake-shoe. No. 1,290,098; Jan. 7; v. 258; p. 21.
- Cook, Judson, Albany, N. Y. Brake-shoe. No. 1,311,320; July 29; v. 264; p. 740.
- Cook, Kathleen S., Easton, Pa. Skein-holder. No. 1,310,741; July 22; v. 264; p. 600.
- Cook, Landon H., Lampasas, Tex. Spur. No. 1,293,043; Feb. 4; v. 259; p. 18.
- Cook, Martha L., Albany, N. Y. Arch-support. No. 1,318,972; Oct. 14; v. 267; p. 312.



## Alphabetical list of patentees—Continued.

- Cook, Milton H., assignor to H. N. Cook Belting Co., San Francisco, Calif. Leather product. No. 1,309,461; July 8; v. 264; p. 296.
- Cook, Norman. (See Cook, Leigh, and Jowett.)
- Cook, Roy, Millport, Ala. Tolling-machine. No. 1,291,416; Jan. 14; v. 258; p. 359.
- Cook, Stanley S. (See Parsons, Cook, and Chapman.)
- Cook, Stanley S. (See Parsons, Cook, and Douglas.)
- Cook, Stanley S. (See Parsons, Cook, and Walker.)
- Cook, Stanley S. (See Parsons, Walker, Cook, and Douglas.)
- Cook, Stanley S. (See Parsons, Walker, Cook, and Simon.)
- Cook, Thomas D., Council Bluffs, Iowa. Car-brake. No. 1,295,829; Feb. 25; v. 259; p. 752.
- Cook, Wallace A., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Bottoming-tap. No. 1,296,627; Mar. 11; v. 260; p. 218.
- Cook, Wallace L., Chicago, Ill. Protector. No. 1,304,024; May 20; v. 262; p. 354.
- Cook, Walter E., Cleveland, Ohio. Vehicle-tire. No. 1,304,742; May 27; v. 262; p. 528.
- Cook, Walter H., London, England. Washer for locking nuts, bolts, and the like. No. 1,315,469; Sept. 9; v. 266; p. 192.
- Cook, William, Seattle, Wash. Fish-scow. No. 1,301,390; Apr. 22; v. 261; p. 698.
- Cook, William A., Fruitville, Fla. Portable heater. No. 1,293,044; Feb. 4; v. 259; p. 17.
- Cook, William A., Dublin, Tex. Power transmission. No. 1,316,427; Sept. 16; v. 266; p. 382.
- Cook, William E., New York, N. Y. Wire-uncoiling machine. No. 1,312,952; Aug. 12; v. 265; p. 240.
- Cook, William E., New York, N. Y. Collecting mechanism for carding-machines. No. 1,312,953; Aug. 12; v. 265; p. 240.
- Cook, William E., New York, N. Y. Insulated-wire-making machine. No. 1,312,954; Aug. 12; v. 265; p. 240.
- Cook, William E., New York, N. Y., assignor to Insulation Development Corporation. Insulated wire. No. 1,298,297; Mar. 25; v. 260; p. 636.
- Cook, William E., New York, N. Y., assignor to Insulation Development Corporation. Insulating material for electrical conductors. No. 1,302,013; Apr. 29; v. 261; p. 847.
- Cook, William H., deceased; Z. E. Cook, administratrix, Paterson, Wash. Current-motor. No. 1,292,389; Jan. 21; v. 258; p. 624.
- Cook, Willis A., assignor of one-half to A. McKay, Republic, Wash. Drill-puller. No. 1,295,700; Feb. 25; v. 259; p. 723.
- Cook, Zeina E., administratrix. (See Cook, William H.)
- Cooke, Barney A., Lindsay, Calif. Game. No. 1,326,848; Dec. 30; v. 269; p. 841.
- Cooke, Charles J., Hongkong, China. Aeroplane-gun. No. 1,294,240; Feb. 11; v. 259; p. 327.
- Cooke, G. N., et al. (See Lawrence, William P., assignor.)
- Cooke, George F., London, England. Land-cultivation apparatus. No. 1,323,017; Nov. 25; v. 268; p. 667.
- Cooke, Raymond D., assignor to Columbian Enameling & Stamping Company, Terre Haute, Ind. Manufacture of enameled ware. No. 1,316,018; Sept. 16; v. 266; p. 306.
- Cooke, Richard T., Indianapolis, Ind. Power-transmitting mechanism. No. 1,296,769; Mar. 11; v. 260; p. 251.
- Cooke, Richard T., Indianapolis, Ind., assignor to National Refining Company, Cleveland, Ohio. Bearing-oiler. No. 1,291,417; Jan. 14; v. 258; p. 359.
- Coolbaugh, Melville F., Golden, Colo., assignor of one-half to J. B. Read, Vermilion, S. D. Treating ores and concentrates. No. 1,315,761; Sept. 9; v. 266; p. 243.
- Cooley, Frederick D., Detroit, Mich. Converter. No. 1,310,178; July 15; v. 264; p. 465.
- Cooley, George T., Joplin, Mo. Ore-concentrator. No. 1,323,157; Nov. 25; v. 268; p. 693.
- Cooley, Henry B., Kensington, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Feeding mechanism for fastener-setting machines. No. 1,294,772; Feb. 18; v. 259; p. 486.
- Cooley, Henry B., Kensington, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Drinking-cup. (Reissue.) No. 1,4650; May 20; v. 262; p. 451.
- Cooley, Roswell P., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Heating system. No. 1,319,924; Oct. 28; v. 267; p. 543.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray apparatus. No. 1,310,061; July 15; v. 264; p. 444.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Removing gases and apparatus produced thereby. No. 1,323,836; Dec. 2; v. 269; p. 115.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Incandescent cathode device. No. 1,326,029; Dec. 23; v. 269; p. 650.
- Coombs, Charles L., Denver, Colo. Apparatus for locking drawers. No. 1,315,709; Sept. 9; v. 266; p. 234.
- Coon, Arthur J., Providence, R. I. Cranberry-picking machine. No. 1,315,095; Sept. 2; v. 266; p. 114.
- Coon, Arthur J., Providence, R. I., assignor of one-half to F. M. Willis, Ithaca, N. Y. Machine for binding and tying packages. No. 1,326,030; Dec. 23; v. 269; p. 650.
- Cooney, John T., Denver, Colo. Milk-bottle top. No. 1,308,226; July 1; v. 264; p. 40.
- Cooney, Michael J., Forbestown, Cal. Stabilizing foundation. No. 1,296,628; Mar. 11; v. 260; p. 218.
- Cooney, Michael J., Forbestown, Calif. Sun-shield. No. 1,322,544; Nov. 25; v. 268; p. 578.
- Cooney, Michael J., and H. J. Bender, Plainfield, N. J. Universal joint. No. 1,291,418; Jan. 14; v. 258; p. 359.
- Cooney, Michael J., and H. J. Bender, Plainfield, N. J. Closure for containers. No. 1,313,264; Aug. 19; v. 265; p. 318.
- Coons, Oscar A., Patterson, La. Silo. No. 1,313,369; Aug. 19; v. 265; p. 337.
- Coontz, John C., Cushing, Okla. Deep-well drill. No. 1,301,912; Apr. 29; v. 261; p. 828.
- Cooper, Alexander J., et al., executors. (See Barratt, William T., assignor.)
- Cooper, Alva H., Augusta, Ga. Collapsible milk-bottle. No. 1,317,687; Oct. 7; v. 267; p. 5.
- Cooper, Annie, et al., executors. (See Barratt, William T., assignor.)
- Cooper, Benjamin F., assignor of one-third to H. H. Stedman and one-third to G. E. Wagner, Cassopolis, Mich. Tractor. No. 1,306,579; June 10; v. 263; p. 284.
- Cooper, Benson P., Ithaca, N. Y. Coin-controlled delivery apparatus. No. 1,301,391; Apr. 22; v. 261; p. 698.
- Cooper, Calek, Suffield, Conn. Tobacco-lath. No. 1,311,757; July 29; v. 264; p. 821.
- Cooper, Charles H. (See Crane, Ernest W., assignor.)
- Cooper, Charles J., assignor of one-half to H. W. Cooper Saddlery Hardware Mfg. Company, Moline, Ill. Chain-cockeye. No. 1,307,436; June 24; v. 263; p. 508.
- Cooper, Charles P., Rutland, Vt., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Coal-bin. No. 1,316,768; Sept. 23; v. 266; p. 496.
- Cooper, Charles R. (See Copony, Alfred, assignor.)
- Cooper, Charles W. (See Morris, Pratt C., assignor.)
- Cooper, Charles W., Pittsburgh, Pa. Railway draft appliance. No. 1,290,099; Jan. 7; v. 258; p. 21.
- Cooper, Christopher C., Roby, Tex. Device for printing blue-prints. No. 1,303,774; May 13; v. 262; p. 270.
- Cooper, David M. (See Hubbard and Cooper.)
- Cooper, Frank E., Oakland, Calif. Flash-light cabinet. No. 1,308,334; July 1; v. 264; p. 60.
- Cooper, Fred. (See Adams, Otis, assignor.)
- Cooper, George J., Havre, Mont. Internal-combustion engine. No. 1,296,368; Mar. 4; v. 260; p. 125.
- Cooper, George W., Brooklyn, N. Y. Cuff. No. 1,305,067; May 27; v. 262; p. 589.
- Cooper, George W., Toone, Tenn. Trap. No. 1,320,844; Nov. 4; v. 268; p. 91.
- Cooper Hewitt Electric Company. (See Evans, William A. D., assignor.)
- Cooper Hewitt Electric Company. (See Hewitt, Peter C., assignor.)
- Cooper Hewitt Electric Company. (See Keyes, Frederick G., assignor.)
- Cooper Hewitt Electric Company. (See Pole, Joseph C., assignor.)
- Cooper, Howell C. (See Garner and Cooper.)
- Cooper, Howell C., Harrison, W. Va., assignor to Hope Natural Gas Company, Pittsburgh, Pa. Obtaining gasoline from hydrocarbon-gases. No. 1,323,837; Dec. 2; v. 269; p. 115.
- Cooper, Hugh H., Troy, N. Y. Countersink drill-chuck. No. 1,294,054; Feb. 11; v. 259; p. 283.
- Cooper, J. Courtland. (See Cooper, William C., assignor.)
- Cooper, James D., assignor of one-third to W. Parsons, Toronto, Ontario, Canada. Vehicle-tire. No. 1,325,233; Dec. 16; v. 269; p. 485.
- Cooper, James H., Snyder, Okla. Tire. No. 1,301,230; Apr. 22; v. 261; p. 666.
- Cooper, James J. G., Jacksonville, Fla. Toy cartridge. No. 1,311,949; Aug. 5; v. 265; p. 18.
- Cooper, James J. G., Jacksonville, Fla. Toy cartridge. No. 1,311,950; Aug. 5; v. 265; p. 18.
- Cooper, John A., Nottingham, England. Apparatus for training in gun-aiming and the like. No. 1,317,556; Sept. 30; v. 266; p. 680.
- Cooper, McKee, assignor of one-half to R. R. Reynolds, New York, N. Y. Rotary engine. No. 1,302,138; Apr. 29; v. 261; p. 871.
- Cooper, Michael. (See Siegel, Ernest, assignor.)
- Cooper, Peter P., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 1,308,044; July 1; v. 264; p. 7.
- Cooper, Peter P., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Storage-battery locomotive. No. 1,308,045; July 1; v. 264; p. 7.
- Cooper, Simon, New York, N. Y., assignor to The Hobart M. Cable Company, Laporte, Ind. Method and apparatus for applying fluid-pressure. No. 1,312,615; Aug. 12; v. 265; p. 175.
- Cooper, Simon, Brooklyn, assignor to Pine Hill Crystal Spring Water Company, New York, N. Y. Liquid-dispensing apparatus. No. 1,319,376; Oct. 21; v. 267; p. 414.



## Alphabetical list of patentees—Continued.

- Cooper, Simon, Brooklyn, assignor to Pine Hill Crystal Spring Water Company, New York, N. Y. Dispensing liquids. No. 1,319,377; Oct. 21; v. 267; p. 414.
- Cooper, Thomas, Norfolk, England. Friction-clutch. No. 1,306,302; June 10; v. 263; p. 234.
- Cooper, Thomas C., Chicago, Ill. Steering-wheel lock for automobiles. No. 1,300,820; Apr. 15; v. 261; p. 544.
- Cooper, Thomas L. R. (See Todman, Cooper, and Lyon.)
- Cooper, Thomas W., Hugo, Okla. Flood-gate. No. 1,302,139; Apr. 29; v. 261; p. 871.
- Cooper, William, Syracuse, N. Y. Handle for shovels and the like. No. 1,297,661; Mar. 18; v. 260; p. 473.
- Cooper, William A., Montreal, Quebec, Canada. Sleeping-car ladder. No. 1,308,147; July 1; v. 264; p. 26.
- Cooper, William C., assignor of one-half to J. C. Cooper, Chicago, Ill. Valency-chart. No. 1,308,167; July 1; v. 264; p. 29.
- Cooperman, Rachel, Chicago, Ill. Tie. No. 1,325,001; Dec. 16; v. 269; p. 441.
- Coote, John M., Elizabeth, N. J. Renewable knife-blade fuse. No. 1,308,000; June 24; v. 263; p. 611.
- Cope, Frank L. (See Bally and Cope.)
- Cope, Frank T. (See Bally and Cope.)
- Cope, Laura B. et al. (See Miller, Henry C., assignor.)
- Cope, Thomas N., Atlanta, Tex. Oil-circulating gage. No. 1,323,454; Dec. 2; v. 269; p. 44.
- Copeland, Ellis F. (See Case, Jesse A., assignor.)
- Copeland, Ridley, Wallsend, England. Marine-engine stop and control valve. No. 1,298,298; Mar. 25; v. 260; p. 636.
- Copeland, William A., Brookline, assignor to The Phonograph Company, East Boston, Mass. Bass attachment for zithers. No. 1,320,532; Nov. 4; v. 268; p. 33.
- Copeman Development Company. (See Copeman, Lloyd G., assignor.)
- Copeman Development Company. (See Forshee, Frank, assignor.)
- Copeman Development Company. (See Hard, Merrill W., assignor.)
- Copeman Electric Stove Company. (See Copeman, Lloyd G., assignor.)
- Copeman, Lloyd G., assignor to Copeman Development Company, Flint, Mich. Grease-cup. No. 1,294,773; Feb. 18; v. 259; p. 486.
- Copeman, Lloyd G., assignor to Copeman Development Co., Flint, Mich. Grease-cup. No. 1,300,699; Apr. 15; v. 261; p. 517.
- Copeman, Lloyd G., assignor to Copeman Electric Stove Company, Flint, Mich. Adjustable thermometer. No. 1,312,834; Aug. 12; v. 265; p. 217.
- Copithorn, Walter E., Natick, Mass. Demountable rim. No. 1,325,714; Dec. 23; v. 269; p. 592.
- Copland, James P., Cleveland, Ohio. Vehicle-wheel. No. 1,304,944; May 27; v. 262; p. 566.
- Copley, Almon W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,314,508; Sept. 2; v. 266; p. 6.
- Copley, Almon W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for minimizing inductive interference. No. 1,318,730; Oct. 14; v. 267; p. 265.
- Copley, Almon W., Wilkinsburg, and C. L. Fortescue, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Distributing system for electric railways. No. 1,295,854; Mar. 4; v. 260; p. 8.
- Copley, Matthew E., Birch Grove, Cape Breton, Nova Scotia, Canada. Plano-bench. No. 1,290,517; Jan. 7; v. 258; p. 122.
- Copony, Alfred, assignor of one-half to C. R. Cooper, Chicago, Ill. Hanger for railway-brakes. No. 1,309,353; July 8; v. 264; p. 276.
- Copp, Wayland J., Chicago, Ill. Spoon-clip. No. 1,323,838; Dec. 2; v. 269; p. 115.
- Coppage, Benjamin D., Wilmington, Del. Tightener for paper-making wires, felts, and the like. No. 1,302,313; Apr. 29; v. 261; p. 903.
- Copper-Clad Malleable Range Company. (See Seruggs and Jones, assignors.)
- Copper Products Company. (See Merritt, Matthew M., assignor.)
- Copperstone Products Company, The. (See Bennett, Alfred A., assignor.)
- Coppins, Scott R., Princeton, Ill. Roller-bearing. No. 1,295,855; Mar. 4; v. 260; p. 8.
- Coppus Engineering and Equipment Company. (See Coppus, Frans H. C., assignor.)
- Coppus, Frans H. C., assignor to Coppus Engineering and Equipment Company, Worcester, Mass. Fan-blower. No. 1,308,982; July 8; v. 264; p. 207.
- Copsey, Edwin L., assignor to F. W. Brackett & Company Limited, Colchester, England. Valveless rotary pump. No. 1,303,169; May 6; v. 262; p. 132.
- Copus, Henry T., Detroit, Mich. Hair-cutting device. No. 1,311,438; July 29; v. 264; p. 762.
- Corbeau, Zenon, Montreal, Quebec, Canada. Salvaging device for automobiles. No. 1,324,232; Dec. 9; v. 269; p. 234.
- Corbett, Jay R., New Wilson, Okla. Pipe-clamp. No. 1,317,962; Oct. 7; v. 267; p. 57.
- Corbett, Medora, Watkins, N. Y. Door-fastener. No. 1,294,406; Feb. 18; v. 259; p. 400.
- Corbin, John C., Napoleonville, La. Windrowing-machine. No. 1,321,721; Nov. 11; v. 268; p. 321.
- Corbin, Julian E., Alameda, Calif. Door-hanger. No. 1,303,775; May 13; v. 262; p. 270.
- Corbitt, Thomas L., Johnston City, Ill. Thermal circuit-closer. No. 1,312,535; Aug. 12; v. 265; p. 217.
- Corby, George F., Toronto, Ontario, Canada. Cruet attachment for cafeteria-chairs and the like. No. 1,301,913; Apr. 29; v. 261; p. 829.
- Corcoran, Cornelius B., assignor to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,294,622; Feb. 18; v. 259; p. 450.
- Corcoran, Cornelius B., assignor to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,312,161; Aug. 5; v. 265; p. 58.
- Corcoran, Cornelius B., assignor to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 1,312,162; Aug. 5; v. 265; p. 58.
- Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,325,980; Dec. 23; v. 269; p. 641.
- Corcoran, John H., Popejoy, Iowa. Heat-saver for furnaces. No. 1,325,276; Dec. 16; v. 269; p. 493.
- Corcoran-Victor Company, The. (See Fischer, Charles H., assignor.)
- Corcoran-Victor Company, The. (See Kuen, Eugene A., assignor.)
- Corcoran-Victor Company, The. (See Macneale, Neil, assignor.)
- Corcoran-Victor Company. (See Ryder, Charles D., assignor.)
- Cordell, Frank N., St. Louis, Mo. Tire-abrader. No. 1,317,615; Sept. 30; v. 266; p. 692.
- Corder, Waiman D., Philippi, W. Va. Elastic connection for garment-supporters. No. 1,297,106; Mar. 11; v. 260; p. 327.
- Cordill, Emery H., Iantha, Mo. Shock-absorber. No. 1,297,799; Mar. 18; v. 260; p. 504.
- Cordley & Hayes. (See Cordley and Long, assignors.)
- Cordley, Henry G., Glen Ridge, N. J. Fountain water-cooler. No. 1,294,623; Feb. 18; v. 259; p. 451.
- Cordley, Henry G., Glen Ridge, N. J., and G. R. Long, Waterbury, Conn., assignors to Cordley & Hayes, New York, N. Y. Liquid-dispensing device. No. 1,326,253; Dec. 30; v. 269; p. 729.
- Cordray, Henry A., Los Angeles, Cal. Table. No. 1,295,438; Feb. 25; v. 259; p. 661.
- Core, James H., Nashville, Tenn. Speed measuring and controlling device. No. 1,293,717; Feb. 11; v. 259; p. 203.
- Corey, David A., Fort Wayne, Ind. Filter. No. 1,295,006; Feb. 18; v. 259; p. 539.
- Corey, Henry F., Des Moines, Iowa. Automatic wrench. No. 1,309,462; July 8; v. 264; p. 296.
- Corey, William H., Newport, Me. Extractor for obstructed esophagus. No. 1,305,773; June 3; v. 263; p. 102.
- Corey, William W., St. Louis, Mo. Drain-valve for fire-hydrants. No. 1,323,351; Dec. 2; v. 269; p. 24.
- Corl, Robert M., and H. F. Hagemeyer, assignors, by mesne assignments, to J. N. Willys, Toledo, Ohio. Glass-rod machine and process. No. 1,298,463; Mar. 25; v. 260; p. 670.
- Corley, Benjamin R., Brooklyn, N. Y. Engraving-machine. No. 1,318,267; Oct. 7; v. 267; p. 117.
- Corley, Benjamin R., Brooklyn, and R. Turner, New York, N. Y. Embossing and printing machine. No. 1,299,133; Apr. 1; v. 261; p. 118.
- Corley, William A., Washington, D. C., assignor to Government of the United States. Circuit-breaker. No. 1,295,007; Feb. 18; v. 259; p. 539.
- Corley, William A., Washington, D. C., assignor to Government of the United States. Buoy. No. 1,295,008; Feb. 18; v. 259; p. 539.
- Corliss, Benjamin W., Calais, Me. Vehicle-spring. No. 1,317,778; Oct. 7; v. 267; p. 22.
- Cormack, Irwin R. H., Toronto, Ontario, Canada. Reinforcing-bar for concrete work. No. 1,299,407; Apr. 1; v. 261; p. 180.
- Corn Products Refining Company. (See Brindle, Richard G., assignor.)
- Corn Products Refining Company. (See Brindle and Flint, assignors.)
- Corn Products Refining Company. (See Jefferies and Spain, assignors.)
- Cornaggia, Victor J., Santa Clara, assignor of one-half to L. H. Leibe, San Jose, Calif. Sanitary-drinking-fountain protector. No. 1,320,449; Nov. 4; v. 268; p. 17.
- Cornelson, Floyd, Hague, N. D. Transmission mechanism. No. 1,296,629; Mar. 11; v. 260; p. 218.
- Cornelius, Samuel S., Monette, Mo. Outdoor furnace. No. 1,290,100; Jan. 7; v. 258; p. 21.
- Cornell, Andrew J., assignor to Empire Art Metal Co., Inc., College Point, N. Y. Metallic door-frame buck and trim-fastening. No. 1,308,276; July 1; v. 264; p. 49.
- Cornell, Herbert V., assignor of one-half to C. R. Butler, Akron, Ohio. Swivel joint or coupling for pipes. No. 1,302,314; Apr. 29; v. 261; p. 904.
- Cornell, Luella, Toledo, Ohio. Uncoupling device. No. 1,298,669; Apr. 1; v. 261; p. 10.
- Cornell Wood Products Company. (See Bennett, Clark H., assignor.)



- Cornell Wood Products Company. (See Smith, Walter T., assignor.)
- Corning Glass Works. (See Churchill, William, assignor.)
- Corning Glass Works. (See Churchill and Pascucci, assignors.)
- Corning Glass Works. (See Gage, Henry P., assignor.)
- Corning Glass Works. (See Gage and Taylor, assignors.)
- Corning Glass Works. (See Sullivan and Taylor, assignors.)
- Corning Glass Works. (See Taylor, William C., assignor.)
- Cornish, Guy S., Cincinnati, Ohio, assignor of one-half to E. L. Morgan, St. Louis, Mo. Electrical selecting and recording apparatus. No. 1,293,346; Feb. 4; v. 259; p. 87.
- Corns, Alfred J. M., Quinnimont, W. Va. Phonograph attachment. No. 1,303,031; May 6; v. 262; p. 105.
- Cornu, Louis E., assignor of five-sixteenths to C. L. Sayles, five-sixteenths to H. Sturns, and two-sixteenths to G. D. Wilson, Enid, Okla. Intake-manifold gasket. No. 1,293,718; Feb. 11; v. 259; p. 203.
- Cornwall, Alfred E., St. Paul, and C. D. Enochs, East Shore Park, Minn., said Enochs assignor to said Cornwall. Dish-washing machine. No. 1,323,216; Nov. 25; v. 268; p. 705.
- Cornwell, Carl, Berkeley, Calif. Apparatus for treating ores. No. 1,316,769; Sept. 23; v. 266; p. 496.
- Corona Typewriter Company. (See De Clamecy, Philippe, assignor.)
- Corona Typewriter Company. (See Peterman, Otto, assignor.)
- Corona Typewriter Company. (See Seagers and Drake, assignors.)
- Corona Typewriter Company. (See Simpson, James E., assignor.)
- Corona Typewriter Company. (See Tucker, Benjamin W., assignor.)
- Corrall, Herbert, Parkview, Helensburgh, Scotland, assignor to The Singer Manufacturing Company. Shuttle-guard and release device for sewing-machines. No. 1,291,419; Jan. 14; v. 258; p. 359.
- Corrall, Herbert, Helensburgh, Scotland, assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,313,265; Aug. 19; v. 265; p. 318.
- Corrigan, John B., Prior Lake, Minn. Animal-trap. No. 1,308,277; July 1; v. 264; p. 49.
- Corrion, James H., Bay City, Mich. Train-control mechanism. No. 1,312,163; Aug. 5; v. 265; p. 58.
- Corrosion Extraction Company. (See Rankin, Harry D., assignor.)
- Corser, Irving, Portland, Oreg. Releasing-hook for life-boats. No. 1,301,392; Apr. 22; v. 261; p. 698.
- Corson, Floyd W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Generator-testing apparatus. No. 1,296,164; Mar. 4; v. 260; p. 80.
- Cortese, Battista, New York, N. Y. Sponging-machine. No. 1,310,325; July 15; v. 264; p. 492.
- Cortez, Albert M., San Francisco, Calif. Ship. No. 1,309,019; July 8; v. 264; p. 215.
- Corthesy, Jules H., Barnsbury, assignor of one-half to S. T. S. Castelli, Kensington, London, England. Distillation of liquid hydrocarbons and apparatus therefor. No. 1,316,770; Sept. 23; v. 266; p. 496.
- Cortland Forging Company. (See Elsom, William J., assignor.)
- Cortner, Wheeler D., Osawatomie, Kans. Firearm. No. 1,303,032; May 6; v. 262; p. 105.
- Cortopass, Marco, Pittsburgh, Pa. Sand toy. No. 1,304,456; May 20; v. 262; p. 436.
- Corwin, Paul P., Yakima, Wash. Cigarette-case. No. 1,293,347; Feb. 4; v. 259; p. 87.
- Cory, Harvey, Chicago, Ill. Friction-lining for brakes and clutches. No. 1,324,648; Dec. 9; v. 269; p. 315.
- Coryell, John B., Adrian, Mich. Tractor. No. 1,309,085; July 8; v. 264; p. 227.
- Coryell, William C., Washington, D. C. Water butt. No. 1,294,407; Feb. 18; v. 259; p. 400.
- Coryell, William C., Washington, D. C. Endless belt. No. 1,309,245; July 8; v. 264; p. 256.
- Coryell, William C., Youngstown, Ohio. Making endless belts. No. 1,309,244; July 8; v. 264; p. 256.
- Cosden & Company. (See Francis and Morgan, assignors.)
- Coseglia, Anthony, New York, N. Y., assignor, by mesne assignments, to Autosales Corporation, Lock. No. 1,325,622; Dec. 23; v. 269; p. 574.
- Cosgray, Mark C., assignor to The Mathews Engineering Company, Sandusky, Ohio. Engine. No. 1,299,554; Apr. 8; v. 261; p. 241.
- Cosgray, Mark C., assignor to The Mathews Engineering Company, Sandusky, Ohio. Engine. No. 1,299,555; Apr. 8; v. 261; p. 241.
- Cosgray, Mark C., assignor to The Mathews Engineering Company, Sandusky, Ohio. Combined engine and dynamo. No. 1,324,035; Dec. 9; v. 269; p. 197.
- Cosgrove, J. J., Rutherford, N. J. Water-closet connection. No. 1,317,963; Oct. 7; v. 267; p. 57.
- Cosgrove, John W., Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-holder. No. 1,293,045; Feb. 4; v. 259; p. 17.
- Cosgrove, John W., Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,312,519; Aug. 12; v. 265; p. 155.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing-machine. No. 1,315,947; Sept. 16; v. 266; p. 293.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. No. 1,315,948; Sept. 16; v. 266; p. 293.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing-machine. No. 1,318,480; Oct. 14; v. 267; p. 218.
- Cosgrove, John W., Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cementing apparatus. No. 1,325,623; Dec. 23; v. 269; p. 574.
- Cosgrove, Leora K., Billings, Mont. Recording device. No. 1,302,315; Apr. 29; v. 261; p. 904.
- Cosgrove, Patrick D., Cobram, Victoria, Australia. Suspension of vehicles. No. 1,313,167; Aug. 12; v. 265; p. 283.
- Cosgrove, Patrick J. (See Rogers and Cosgrove.)
- Cosner, Charles M., Bloomington, Ind. Folding umbrella. No. 1,294,055; Feb. 11; v. 259; p. 283.
- Cosner, Edgar M., Denver, Colo. Dispenser. No. 1,294,056; Feb. 11; v. 259; p. 283.
- Coss, Frank, Framingham, Mass. Cabinet for disk records. No. 1,315,213; Sept. 9; v. 266; p. 146.
- Cossman, Joseph H., Perth Amboy, N. J., assignor to The Optical Appliance Corporation, New York, N. Y. Lens-chuck. No. 1,296,050; Mar. 4; v. 260; p. 53.
- Costa, Anthony, assignor to The Gravity Carburetor Company, Cleveland, Ohio. Carburetor. No. 1,293,348; Feb. 4; v. 259; p. 87.
- Costanzo, Thomas. (See Evangelist, Dominick, assignor.)
- Costello, Frederick A., Southbridge, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric soldering device. No. 1,304,545; May 27; v. 262; p. 492.
- Costello, Joseph A., assignor to Cleveland Car Specialty Company, Cleveland, Ohio. Carline. No. 1,299,916; Apr. 8; v. 261; p. 323.
- Costello, Joseph A., assignor to Cleveland Car Specialty Company, Cleveland, Ohio. Carline. No. 1,314,573; Sept. 2; v. 266; p. 19.
- Costello, William, Jr., Philadelphia, Pa. Depositing-nozzle for cake-coating machines. No. 1,310,062; July 15; v. 264; p. 444.
- Costimeter Company, The. (See Liner, Joseph I., assignor.)
- Costmeter Company. (See Quigley, John T., assignor.)
- Costuma, Jacob A., New York, N. Y. Screw or like article. No. 1,296,165; Mar. 4; v. 260; p. 81.
- Cote, George H. (See Jonas, Howard N., assignor.)
- Côté, Jean B. E. H., Weymouth, Mass. Tool-holder. No. 1,326,254; Dec. 30; v. 269; p. 729.
- Cotter, Joseph E., West Somerville, Mass. Starting device for mired motor-vehicles. No. 1,307,851; June 24; v. 263; p. 583.
- Cotter, Richard H., New York, N. Y. Antislipping device. No. 1,293,349; Feb. 4; v. 259; p. 87.
- Cotterell, Frederick, Melbourne, Victoria, Australia. Glass-polishing machine. No. 1,302,316; Apr. 29; v. 261; p. 904.
- Cotterill, Walter. (See Barton and Cotterill.)
- Cottes, Joaquin D., Juncos, Porto Rico. Surgical appliance. No. 1,321,011; Nov. 4; v. 263; p. 123.
- Cottini, Girolamo. (See Cottini, Gulielmo and G.)
- Cottini, Gulielmo, Springfield, and G. Cottini, Ludlow, assignors to M. T. Foley, Springfield, Mass. Paper-dispensing cabinet. No. 1,311,799; July 29; v. 264; p. 829.
- Cotton, Walter H. (See McGranahan and Cotton.)
- Cotton, Walter H., and C. H. Kehm, Chicago, Ill. Air-valve cap. No. 1,326,647; Dec. 30; v. 269; p. 803.
- Cotton, Walter H., and C. H. Kehm, Chicago, Ill. Vent for hot-water radiators. No. 1,326,897; Dec. 30; v. 269; p. 830.
- Cottrell, Henry W., assignor to H. W. Rountree & Brother Trunk and Bag Co., Richmond, Va. Drawer-locking means. No. 1,299,302; Apr. 1; v. 261; p. 156.
- Cottrell, John E., Ionia, Mich. Attachment for bean-vine forkers. No. 1,306,139; June 10; v. 263; p. 201.
- Cottrell, William F., Fishponds, England. Flexible cover for laminated vehicle-springs. No. 1,307,657; June 24; v. 263; p. 547.
- Cottrill, Kenyon, assignor of three-fourths to C. S. Pierce, C. A. Lisenby, and R. J. Woodward, Fresno, Calif. Automobile speed-changing mechanism. No. 1,313,881; Aug. 26; v. 265; p. 467.
- Cottrill, Kenyon, assignor of three-fourths to C. S. Pierce, C. A. Lisenby, and R. J. Woodward, Fresno, Calif. Gear-shifting mechanism. No. 1,319,514; Oct. 21; v. 267; p. 440.
- Cottun, Edward J., New York. Hose-supporter. No. 1,319,566; Oct. 21; v. 267; p. 450.
- Couch, Buel. (See Kneidler, John D., assignor.)
- Couch-Dean Corporation. (See Couch, Elbert L., assignor.)
- Couch, Elbert L., assignor to Couch-Dean Corporation, Hartford, Conn. Belt. No. 1,313,266; Aug. 19; v. 265; p. 318.



## Alphabetical list of patentees—Continued.

- Couch, Forrest J. and W. F. Webber, Rochester, N. Y., assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Tilting-type pressing-machine. No. 1,303,257; May 13; v. 262; p. 176.
- Couch, Forrest J., Spencerport, and J. F. Wallace, assignors, by mesne assignments, to Rochester Washing Machine Corporation, Rochester, N. Y. Wringer mechanism for clothes-washers. No. 1,325,234; Dec. 16; v. 269; p. 487.
- Couden, Albert R., trustee. (See Keithley and Test, assignors.)
- Cough, Adoniram B., assignor of one-third to E. M. Bevins, Arlington, Mass. Cabinet for stores and shops. No. 1,291,420; Jan. 14; v. 258; p. 360.
- Coughlin, John J., Chicago, Ill. Automobile alarm device. No. 1,293,350; Feb. 4; v. 259; p. 88.
- Coughlin, Thomas J. (See McGinley and Coughlin.)
- Coughlin, William G., Philadelphia, Pa. Rail-fastening. No. 1,316,941; Sept. 23; v. 266; p. 526.
- Coughtry, Arthur J., Lorain, Ohio. Portable drilling and reaming machine. No. 1,306,467; June 10; v. 263; p. 265.
- Coughtry, John W. (See Lipe and Coughtry.)
- Coughtry, Stella S., administratrix. (See Lipe and Coughtry.)
- Coulombe, Joseph C., Lowell, Mass. Signal. No. 1,292,436; Jan. 28; v. 258; p. 657.
- Coulombe, Joseph C., Lowell, Mass. Signal-horn. No. 1,301,106; Apr. 22; v. 261; p. 640.
- Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Reclaiming turnings of readily-oxidizable metals. No. 1,292,582; Jan. 28; v. 258; p. 693.
- Coulson, John, Jr., Medford, and F. M. Holmes, Everett, Mass. Envelop. No. 1,292,264; Jan. 21; v. 258; p. 595.
- Coulson, William T., Anerley, London, England. Diver's lantern. No. 1,308,579; July 1; v. 264; p. 104.
- Coulston, Earl V., Rock Island, Ill. Heating system. No. 1,308,335; July 1; v. 264; p. 60.
- Coulston, Harry, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Stocking-drying machine. No. 1,312,236; Aug. 5; v. 265; p. 72.
- Coulter, Arthur D., Seattle, Wash. Fireproof safe. No. 1,304,855; May 27; v. 262; p. 549.
- Coulter, Charles J., Long Beach, Cal. Adjustable wrench-head. No. 1,291,421; Jan. 14; v. 258; p. 360.
- Coulter, Charles J., assignor of one-half to O. T. Ellis, Long Beach, Calif. Grapple. No. 1,303,033; May 6; v. 262; p. 105.
- Coulter, Charles J., assignor of one-half to O. T. Ellis, Long Beach, Calif. Release suspension apparatus. No. 1,324,956; Dec. 16; v. 269; p. 433.
- Coulter, Leonard P., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Arc-welding system. No. 1,290,915; Jan. 14; v. 258; p. 243.
- Coulter, Leonard P., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for arc-welding apparatus and the like. No. 1,291,422; Jan. 14; v. 258; p. 360.
- Coulter, Louis C., Portland, Oreg. Bag-turning machine. No. 1,301,393; Apr. 22; v. 261; p. 699.
- Counard & Neville. (See Lavolette, Felix, assignor.)
- Coune, Felix, Chicago, Ill. Hair-waving tube. No. 1,326,710; Dec. 30; v. 269; p. 814.
- Countryman, Guy A., Ashland, Ohio. Adjustable reamer. No. 1,325,556; Dec. 23; v. 269; p. 562.
- Counts, Claude A. (See Phillips, Willard G., assignor.)
- Couplin, Levi S., South Greenfield, Mo. Fly-trap. No. 1,290,717; Jan. 7; v. 258; p. 171.
- Courbon, Jean, Lyon, France. Folding brazier. No. 1,312,307; Aug. 5; v. 265; p. 84.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,300,700; Apr. 15; v. 261; p. 518.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,319,210; Oct. 21; v. 267; p. 383.
- Courtney, Herbert R., Henry Clay, Del. Lubricated leaf-spring for automobiles and other vehicles. No. 1,319,270; Oct. 21; v. 267; p. 394.
- Courtney, Merion O., Walter, Okla. Mail-box. No. 1,307,242; June 17; v. 265; p. 438.
- Courvoisier, Andrew, Huguenot Park, N. Y. Pontoon for raising ships. No. 1,308,168; July 1; v. 264; p. 30.
- Couse, Elvin T., San Jose, Calif. Transmission mechanism. No. 1,317,075; Sept. 23; v. 266; p. 552.
- Cousins, Benjamin, Eldorado, Kans. Shock-absorber for the polish or sucker rod of oil-pumps. No. 1,307,243; June 17; v. 263; p. 438.
- Couture, Adelard, Arctic, R. I. Rotary oil-burner. No. 1,295,856; Mar. 4; v. 260; p. 9.
- Couture, Adelard, Arctic, R. I. Oil-burner. No. 1,321,599; Nov. 11; v. 268; p. 298.
- Covel, Joseph D., Orin, Wash. Aerial torpedo. No. 1,300,930; Apr. 15; v. 261; p. 567.
- Covel, Nathan E. (See Fay, James F., Jr., assignor.)
- Covell, William J., San Francisco, Calif. Non-leakable recharging-syringe. No. 1,316,222; Sept. 16; v. 266; p. 344.
- Coveney, Clay, Tonopah, Nev. Steel-puller. No. 1,295,439; Feb. 25; v. 259; p. 661.
- Coventry Ordnance Works, Limited, The. (See Carpmal and Sotham, assignors.)
- Coventry Ordnance Works, The. (See Mansell, John H., assignor.)
- Coventry Ordnance Works, The. (See Redpath, Robert, assignor.)
- Coventry Ordnance Works, The. (See Redpath and Hellberg, assignors.)
- Covert, George J., and B. A. Shaw, Wayne, N. Y. Grinding-plate for feed-mills. No. 1,306,468; June 10; v. 263; p. 265.
- Covington, James H., Richardson Park, Del. Potato-planter. No. 1,326,711; Dec. 30; v. 269; p. 815.
- Cowan, Archie E., McKeesport, Pa. Tri-runner sleigh. No. 1,303,637; May 13; v. 262; p. 244.
- Cowan, Arthur E., Gloucester, Mass., assignor of one-fourth to G. Crosby, Glen Ridge, N. J. Culinary device. No. 1,312,616; Aug. 12; v. 265; p. 175.
- Cowan, Charles H., Jr., Stonington, Conn. Ticket-holder. No. 1,311,758; July 29; v. 264; p. 822.
- Cowan, Charles M., and J. Brown, Musselburgh, Scotland. Apparatus for treatment of paper-pulp and other fibrous materials. No. 1,324,542; Dec. 9; v. 269; p. 295.
- Cowan, Henry, New York, N. Y. Tea-ball. No. 1,313,582; Aug. 19; v. 265; p. 377.
- Cowan, John A., Kansas City, Mo. Cultivator. No. 1,302,317; Apr. 29; v. 261; p. 904.
- Cowan, John A., Kansas City, Mo. Tractor. No. 1,306,469; June 10; v. 263; p. 265.
- Cowan, John T., Pittsburgh, Pa. Resilient wheel. No. 1,290,519; Jan. 7; v. 258; p. 122.
- Cowan Truck Company. (See Eldmann, Frank L., assignor.)
- Cowan Truck Company. (See Fairchild, George R., assignor.)
- Cowan Truck Company. (See Hennessy, Daniel E., assignor.)
- Cowdery, Robert H., Geneva, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Cultivator. No. 1,316,878; Sept. 23; v. 266; p. 415.
- Cowdrey, Henry E., Fitchburg, Mass. Woodworking-machine. No. 1,319,046; Oct. 21; v. 267; p. 357.
- Cowell, William M., Evansville, Ind. Wheel construction and mounting. (Reissue.) No. 14,659; June 10; v. 263; p. 304.
- Cowgill, Ulysses E., Alton, Ill. Controller. No. 1,322,480; Nov. 18; v. 268; p. 515.
- Cowles, A. W., et al. (See Johns, Paul H., assignor.)
- Cowles, John T., Chicago, Ill. Ship-raising mechanism. No. 1,323,249; Dec. 2; v. 269; p. 5.
- Cowles, William C. W., Sydney, New South Wales, Australia. Cartridge-magazine for automatic pistols. No. 1,299,303; Apr. 1; v. 261; p. 156.
- Cowling, William E., Sioux City, Iowa. Hose-supporter. No. 1,308,774; July 8; v. 264; p. 169.
- Cox, Archibald. (See Spencer, Arthur C., assignor.)
- Cox, Benjamin F., Mercedes, Tex. Game-retaining garment. No. 1,307,244; June 17; v. 263; p. 439.
- Cox, Charles F. (See Fredrick, Glaspey, and Cox.)
- Cox, George E., Niagara Falls, assignor to American Cyanamid Company, New York, N. Y. Process and apparatus for making calcium cyanamid. No. 1,292,715; Jan. 28; v. 258; p. 725.
- Cox, George E., Niagara Falls, assignor to American Cyanamid Company, New York, N. Y. Flexible connection for electric furnaces. No. 1,292,716; Jan. 28; v. 258; p. 725.
- Cox, George E., Niagara Falls, assignor to American Cyanamid Company, New York, N. Y. Apparatus for making calcium cyanamid. No. 1,317,756; Oct. 7; v. 267; p. 18.
- Cox, George E., Niagara Falls, N. Y., assignor to American Cyanamid Company, New York, N. Y. Cyanamid-oven. No. 1,326,442; Dec. 30; v. 269; p. 764.
- Cox, James W., assignor to Pacific Flush Tank Company, Chicago, Ill. Registering attachment for flush-tanks. No. 1,311,876; Aug. 5; v. 265; p. 5.
- Cox, James W., assignor of one-half to E. L. Walcott, Chicago, Ill. Automatic stippling device. No. 1,325,715; Dec. 23; v. 269; p. 592.
- Cox, John A., Bridgeport, Conn. Spring-controlled step-mat for automobiles. No. 1,316,689; Sept. 23; v. 266; p. 481.
- Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Apparatus for producing comminuted material. No. 1,296,926; Mar. 11; v. 260; p. 287.
- Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Steering mechanism for trucks. No. 1,296,927; Mar. 11; v. 260; p. 288.
- Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Ice-cream dipper. No. 1,323,523; Dec. 2; v. 269; p. 57.
- Cox, Mark, Des Moines, Iowa. Automobile-light and dimmer. No. 1,293,719; Feb. 11; v. 259; p. 203.
- Cox, Millard F., Louisville, Ky. Reversible brake-beam fulcrum. No. 1,308,046; July 1; v. 264; p. 7.
- Cox, Millard F., Louisville, Ky. Packing-ring expander. No. 1,316,534; Sept. 16; v. 266; p. 404.
- Cox Multi-Mailer Co. (See Huneke, John, assignor.)



- Cox, Walter, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Apparatus for rolling ribbed glass. No. 1,313,071; Aug. 12; v. 265; p. 264.
- Cox, Warren R., Cleveland, Ohio. Lock-switch. No. 1,325,981; Dec. 23; v. 269; p. 641.
- Cox, William, Petone, Wellington, New Zealand. Scud-ding attachment to pelt and hide washing or bating machines. No. 1,305,774; June 3; v. 263; p. 103.
- Coxon, Fred, assignor to James Archdale & Company, Limited, Birmingham, England. Radial-arm drilling-machine. No. 1,323,158; Nov. 25; v. 268; p. 693.
- Coy, Daniel C., Riverton, Utah. Target apparatus. No. 1,306,048; June 10; v. 263; p. 184.
- Coy, William F., Boston, Mass. Power-generator. No. 1,311,877; Aug. 5; v. 265; p. 5.
- Coyer, Henry S., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y. Grid-making machine. No. 1,305,690; June 3; v. 263; p. 87.
- Coyle, John H. (See Hunt and Coyle.)
- Coyle, Joseph A., and C. H. Roth, Minneapolis, Minn. Screening-machine. No. 1,319,925; Oct. 28; v. 267; p. 543.
- Coyne, Edward M., Chatham, Ontario, Canada. Abdominal supporter. No. 1,316,771; Sept. 23; v. 266; p. 496.
- Coyne Helicopter Airship Company *et al.* (See Coyne, William E. S., assignor.)
- Coyne, William E. S., assignor of one-tenth to J. W. Codd and one-tenth to Coyne Helicopter Airship Company, Spokane, Wash. Propeller. No. 1,294,624; Feb. 18; v. 259; p. 451.
- Cozad, William C., assignor of one-half to A. T. Moloney, Chicago, Ill. Telegraph sending-machine. No. 1,304,025; May 20; v. 262; p. 354.
- Cozatsky, Nathan, assignor to Cluster Appliance Gas Lamp Co., New York, N. Y. Gas-lamp. No. 1,302,901; May 6; v. 262; p. 81.
- Cozatt, Walter R., Oakland, assignor of one-half to J. H. Brady, San Francisco, Calif. Matrix for strip material faces. No. 1,298,900; Apr. 1; v. 261; p. 65.
- Crabb, George W. J., Newark, N. J. Dirigible headlight. No. 1,318,973; Oct. 14; v. 267; p. 312.
- Crabbe, George N. (See Lindquist and Crabbe.)
- Crabtree, George W., Ardmore, Okla. Shock-absorber. No. 1,323,839; Dec. 2; v. 269; p. 116.
- Crabtree, John L., assignor to Eastman Kodak Company, Rochester, N. Y. Colored image and producing the same. No. 1,305,962; June 3; v. 263; p. 139.
- Craddick, William F., Salt Lake City, Utah, assignor to Vit-O-Net Manufacturing Company. Electric switch. No. 1,300,126; Apr. 8; v. 261; p. 369.
- Craddock, Algy R., Hillyard, Wash. Belt-guide. No. 1,313,267; Aug. 19; v. 265; p. 318.
- Craddock, John F., Stirling City, Calif. Measuring instrument. No. 1,323,018; Nov. 25; v. 268; p. 667.
- Craft, Augustus P., Galena, Ill. Treating zinc ores. No. 1,295,857; Mar. 4; v. 260; p. 9.
- Cragg, Harry C., Washington, D. C. Feeding mechanism for stemming-machines. No. 1,325,144; Dec. 16; v. 269; p. 469.
- Cragin, George P., Spokane, Wash. Cuff-link. No. 1,295,440; Feb. 25; v. 259; p. 662.
- Crage, Felix H., Sappington, Mont. Combined water motor and pump. No. 1,317,352; Sept. 30; v. 266; p. 640.
- Crage, Felix H., Sappington, Mont. Pump. No. 1,317,353; Sept. 30; v. 266; p. 641.
- Crage, Felix H., Hot Springs, Mont. Pump. No. 1,322,764; Nov. 25; v. 268; p. 619.
- Craig, Allietta A., *et al.* (See Patrick, Charles E., assignor.)
- Craig, Edward, St. Joseph, Mich. Carton-stapling machine. No. 1,323,965; Dec. 2; v. 269; p. 140.
- Craig, Edward, St. Joseph, Mich. Box-blank-guiding device. No. 1,323,966; Dec. 2; v. 269; p. 140.
- Craig, Edward, St. Joseph, Mich. Box-top stapler. No. 1,325,780; Dec. 23; v. 269; p. 604.
- Craig, Fenton D., Memphis, Tenn. Trace-carrier. No. 1,304,743; May 27; v. 262; p. 528.
- Craig, George R., *et al.* (See Garrow, John W., assignor.)
- Craig, Harry L., Deming, N. Mex. Receiver-cleaning brush for rifles. No. 1,291,770; Jan. 21; v. 258; p. 473.
- Craig, John J., *et al.* (See Voigtlander, Maximilian G., assignor.)
- Craig, John J., Carnegie, Pa. Kite-string holder. No. 1,296,268; Mar. 4; v. 260; p. 103.
- Craig, Richard M., San Antonio, Tex. Automatic electric advertising-sign. No. 1,308,698; July 1; v. 264; p. 126.
- Craig, Richard M., San Antonio, Tex. Advertising-sign. No. 1,312,237; Aug. 5; v. 265; p. 72.
- Craig, Robert M., Paterson, N. J. Concrete-mixing machine. No. 1,321,890; Nov. 18; v. 268; p. 403.
- Craig, Thomas P., *et al.* (See Patrick, Charles E., assignor.)
- Craig, Walter L., Washington, D. C. Motor-cycle stand. No. 1,304,457; May 20; v. 262; p. 436.
- Craighead, James R., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. No. 1,325,235; Dec. 16; v. 269; p. 456.
- Craighead, Thomas G., Seattle, Wash. Stocking. No. 1,308,483; July 1; v. 264; p. 87.
- Craigmyle, John, Danville, Ill. Switch-signal. No. 1,303,170; May 6; v. 262; p. 132.
- Crall, Prentiss R., Columbus, Ohio. Lock for stop-boxes. No. 1,307,346; June 24; v. 263; p. 491.
- Crall, Prentiss R., Columbus, Ohio. Stop-valve box. No. 1,310,521; July 22; v. 264; p. 559.
- Cram, Marshall M., North Mankato, Minn. Profile measuring and recording device. No. 1,308,580; July 1; v. 264; p. 104.
- Crambley, H. P., *et al.* (See Kavanagh, Enoch, assignor.)
- Cramer, August N., assignor to Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y. Gear-case. No. 1,292,265; Jan. 21; v. 258; p. 596.
- Cramer, Fred, Forest, Ohio. Base-ball game. No. 1,299,304; Apr. 1; v. 261; p. 156.
- Cramer, Fred S., *et al.* (See Winchester, Fred E., assignor.)
- Cramer, John, Toronto, Kans. Cultivator-clevis. No. 1,303,034; May 6; v. 262; p. 106.
- Cramer, Stuart W., Charlotte, N. C. Chewing-gum. No. 1,298,670; Apr. 1; v. 261; p. 11.
- Cramer, Walter G., Cincinnati, Ohio. Holder for cameras. No. 1,306,580; June 10; v. 263; p. 285.
- Cramer, Walter G., Cincinnati, Ohio. Antiskid device. No. 1,311,048; July 22; v. 264; p. 657.
- Cramer, William. (See Jacobs and Cramer.)
- Cramer, William, Toledo, Ohio. Automatic automobile-jack. No. 1,290,916; Jan. 14; v. 258; p. 243.
- Crampton, Frank E., Cleveland, Ohio. Ventilator. No. 1,298,671; Apr. 1; v. 261; p. 11.
- Crandall Engineering Company, The. (See Crandall, James L., assignor.)
- Crandall, Henry F., and N. R. Krause, assignors to J. I. Case Threshing Machine Company, Racine, Wis. Self-feeder for threshing-machines. No. 1,325,691; Dec. 23; v. 269; p. 587.
- Crandall, James L., Malden, assignor to The Crandall Engineering Company, Boston, Mass. Railway dry-dock. No. 1,293,046; Feb. 4; v. 259; p. 17.
- Crane & Breed Manufacturing Company, The. (See Davoran, Michael F., assignor.)
- Crane, Calvin D., Dayton, Ohio. Water-still. No. 1,314,790; Sept. 2; v. 266; p. 59.
- Crane Company. (See Farley, John A., assignor.)
- Crane Company. (See Stark, Julian E., assignor.)
- Crane, Ernest W., assignor of one-half to C. H. Cooper, Buena Vista, Fla. Liquid-conveyer. No. 1,303,814; May 13; v. 262; p. 277.
- Crane, Fred W., Dewey, Okla. Window-screen. No. 1,323,159; Nov. 25; v. 268; p. 693.
- Crane, Frederick D., Montclair, N. J. Method of and apparatus for treating guncotton and the like. No. 1,295,089; Feb. 18; v. 259; p. 558.
- Crane, Frederick G., *et al.* (See Hammon, Grant, assignor.)
- Crane, George W. (See Mosner and Crane.)
- Crane, Herbert W., Chicago, Ill. Operating means for doors. No. 1,290,718; Jan. 7; v. 258; p. 171.
- Crane, Herbert W., Chicago, Ill. Multiple switch. No. 1,322,545; Nov. 25; v. 268; p. 578.
- Crane, James A., Belfast, Me. Nut-lock. No. 1,309,463; July 8; v. 264; p. 296.
- Crane, Jasper E., Newark, assignor to The Arlington Company, Arlington, N. J. Purifying camphor. No. 1,308,398; July 1; v. 264; p. 72.
- Crane, John T., Maywood, Ill. Packing. No. 1,316,772; Sept. 23; v. 266; p. 496.
- Crane, Newton, Boston, Mass. Wire-winding machine. No. 1,307,620; June 24; v. 263; p. 540.
- Crane, Newton, Boston, Mass. Motor-sleigh. No. 1,308,937; July 8; v. 264; p. 199.
- Crane, Newton, Boston, assignor, by direct and mesne assignments, to C. F. Brown, Reading, Mass. Electrical safety-razor. No. 1,303,539; May 13; v. 262; p. 227.
- Crane Packing Company. (See Payne, Frank E., assignor.)
- Crane, Peter B., Long Lake, Minn. Deep-tilling machine. No. 1,308,169; July 1; v. 264; p. 30.
- Crane, Raymond E., Wilmette, Ill. Water-closet flush-tank. No. 1,298,012; Mar. 25; v. 260; p. 575.
- Crane, Samuel G., assignor to Toledo Scale Company, Toledo, Ohio. Electric automatic scale. No. 1,294,408; Feb. 18; v. 259; p. 400.
- Crane, Thomas S., East Orange, N. J., assignor, by mesne assignments, to B. White, West Hartford, and E. F. von Wettberg, Fairfield, Conn. Lubricating device for shears. No. 1,303,463; May 13; v. 262; p. 212.
- Crane, Warren H. (See Horne and Crane.)
- Crane, William H., Poughkeepsie, N. Y., assignor to Mo-line Plow Company. Folding divider for harvesters. No. 1,302,768; May 6; v. 262; p. 54.
- Crane, William M. (See O'Dowd, Henry W., assignor.)
- Crane, William M., assignor of one-half to J. F. Fox, Baltimore, Md. Reater. No. 1,325,509; Dec. 23; v. 269; p. 554.
- Craney, Thomas, Bay City, Mich. Grate. No. 1,297,293; Mar. 11; v. 260; p. 367.
- Cranford, Frederick L. (See Meem, James C., assignor.)
- Cranford, Henry L., Washington, D. C. Baby-walker. No. 1,297,800; Mar. 18; v. 260; p. 504.
- Crapo, Henry T., Boston, Mass. Reproducer for talking-machines. No. 1,302,140; Apr. 29; v. 261; p. 871.
- Crary, Jay D., Aberdeen, Wash. Electric hand-grill. No. 1,291,423; Jan. 14; v. 258; p. 360.



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- Crary, Ralph W., Waukesha, Wis. Can. No. 1,308,891; July 8; v. 264; p. 190.
- Crary, Ralph W., Waukesha, Wis. Can. No. 1,308,892; July 8; v. 264; p. 190.
- Crason, George C., San Francisco, Cal. Treating ores and metals in reverberatory furnaces. No. 1,296,478; Mar. 4; v. 260; p. 147.
- Crate, Walter W., Camden, N. J. Mold for making artificial teeth. No. 1,297,448; Mar. 18; v. 260; p. 429.
- Craven, Austin O., Detroit, Mich. Air-filter. No. 1,316,144; Sept. 16; v. 266; p. 329.
- Craven Brothers. (See Thomas and Tams, assignors.)
- Craven, Claud C., Kansas City, Mo. Agricultural machine. No. 1,302,636; May 6; v. 262; p. 29.
- Cravens, Frank S., Lexington, Ky. Air-brake. No. 1,306,526; June 10; v. 263; p. 275.
- Crawford, Albert G., assignor of one-half to H. W. Seaman, Chicago, Ill. Refrigerant and making same. No. 1,325,665; Dec. 23; v. 269; p. 583.
- Crawford, Albert G., assignor of one-half to H. W. Seaman, Chicago, Ill. Refrigerating-gas and making same. No. 1,325,666; Dec. 23; v. 269; p. 583.
- Crawford, Albert G., assignor of one-half to H. W. Seaman, Chicago, Ill. Refrigerant and making same. No. 1,325,667; Dec. 23; v. 269; p. 583.
- Crawford, Carl H. (See Wickman, Magnus, assignor.)
- Crawford, Edward M., Riogrande, Tex. Shock-absorber. No. 1,323,840; Dec. 2; v. 269; p. 116.
- Crawford, Frank, Los Angeles, Calif. Self-oiling hub. No. 1,312,683; Aug. 12; v. 265; p. 187.
- Crawford, Fred, Prosser, Wash. Guard-finger for mowers. No. 1,306,686; June 17; v. 263; p. 338.
- Crawford, Gustavus C., East Orange, N. J., and G. H. Stevenson, Mount Vernon, assignors to Western Electric Company, Incorporated, New York, N. Y. Generating system. No. 1,296,269; Mar. 4; v. 260; p. 103.
- Crawford, Harvey F., Brockton, Mass. Dieing-out attachment for presses. No. 1,307,041; June 17; v. 263; p. 403.
- Crawford, Hezekiah H., El Paso, Tex. Can-opener. No. 1,323,019; Nov. 25; v. 268; p. 667.
- Crawford, Jesse L., and J. R. Dunlap, Dallas, Tex. Locking device. No. 1,300,348; Apr. 15; v. 261; p. 443.
- Crawford, Lawrence, New York, N. Y. Rivet-forge. No. 1,318,358; Oct. 14; v. 267; p. 194.
- Crawford Manufacturing Company, The. (See Wolff, Rudolf, assignor.)
- Crawford, Marquis L., Osceola, Ark. Press. No. 1,317,354; Sept. 30; v. 266; p. 641.
- Crawford, McGregor and Canby Co. (See Mattern, George W., assignor.)
- Crawford, Milo, Springfield, Mo. Headlight-dimmer. No. 1,311,951; Aug. 5; v. 265; p. 18.
- Crawford, Miner. (See Northcutt and Crawford.)
- Crawford, Ralph F., Monticello, N. Y. Power-transmission device for motor-vehicles. No. 1,301,657; Apr. 22; v. 261; p. 747.
- Crawford, Ralph F., Monticello, N. Y. Tractor attachment for motor-cars. No. 1,303,856; May 20; v. 262; p. 323.
- Crawford Tool & Manufacturing Company. (See Van Kriegsfeld, Oscar, assignor.)
- Crawley, Harriett A., Brooksville, assignor of one-half to O. Cummins, Falmouth, Ky. Milk-can. No. 1,308,047; July 1; v. 264; p. 7.
- Craymer, Henry J., Peckham, London, England. Unloading or discharging device. No. 1,304,026; May 20; v. 262; p. 354.
- Creamery Package Manufacturing Company, The. (See Cooper, Charles P., assignor.)
- Creamery Package Manufacturing Company, The. (See Valerius, Theodore L., assignor.)
- Creamery Package Mfg Company, The. (See Valerius and Larsen, assignors.)
- Crease, Walter E., East Greenwich, R. I. Beehive. No. 1,321,600; Nov. 11; v. 268; p. 298.
- Crease, Walter E., East Greenwich, R. I. Frame for beehives. No. 1,321,601; Nov. 11; v. 268; p. 298.
- Crease, Walter E., East Greenwich, R. I. Hive connector or crossover. No. 1,321,602; Nov. 11; v. 268; p. 299.
- Creasey, Samuel E., Sanford, Me. Core-removing tool. No. 1,293,351; Feb. 4; v. 259; p. 88.
- Creasy, Reuben B., Ballinger, Tex. Saw-filing machine. No. 1,297,547; Mar. 18; v. 260; p. 449.
- Crececius, Lawrence P., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Apparatus for uniting metal bodies. No. 1,294,409; Feb. 18; v. 259; p. 401.
- Crececius, Lawrence P., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Uniting metal bodies. No. 1,295,009; Feb. 18; v. 259; p. 539.
- Crececius, Lawrence P., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail-bonding. No. 1,310,411; July 22; v. 264; p. 540.
- Crececius, Theodore E., assignor to Multiple Display Fixture Company, St. Louis, Mo. Supporting-pole and bracket therefor. No. 1,299,556; Apr. 8; v. 261; p. 241.
- Crede, Edward. (See Wagner, Louis, assignor.)
- Creed, Frederick G. (See Polley and Creed.)
- Creedy, Frederick, Ilkley, England. Dynamo-electric machine. No. 1,291,424; Jan. 14; v. 258; p. 361.
- Creek, Allen B., assignor of one-half to A. J. Cardoza, San Francisco, Calif. Card-case. No. 1,308,336; July 1; v. 264; p. 60.
- Creek, Walter, Los Animas, Colo. Gripping attachment for automobile-wheels. No. 1,309,020; July 8; v. 264; p. 215.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,300,127; Apr. 8; v. 261; p. 369.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protection of transmission systems. No. 1,313,072; Aug. 12; v. 265; p. 264.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. No. 1,317,002; Sept. 23; v. 266; p. 538.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Reactor. No. 1,317,003; Sept. 23; v. 266; p. 538.
- Crellin, Edward T., Pender, Nebr. Tractor transmission device. No. 1,302,769; May 6; v. 262; p. 54.
- Cremean, William F., Frankfort, Ind. Car-coupling. No. 1,292,583; Jan. 28; v. 258; p. 693.
- Cremean, William F., Frankfort, Ind. Brake-beam hanger. No. 1,298,901; Apr. 1; v. 261; p. 65.
- Cremean, William F., Frankfort, Ind. Brake-beam hanger. No. 1,298,902; Apr. 1; v. 261; p. 65.
- Cremean, William F., Wilkes-Barre, Pa. Brake-hanger. No. 1,304,662; May 27; v. 262; p. 513.
- Cremean, William F., Wilkes-Barre, Pa. Third-point support for brake-beams. No. 1,309,187; July 8; v. 264; p. 245.
- Cremean, William F., Wilkes-Barre, Pa., and W. E. Wine, Toledo, Ohio. Brake-shoe-key lock. No. 1,309,186; July 8; v. 264; p. 245.
- Creplet, Leon J., Paris, France. Automatic teleapparatus to limit and regulate the speed of reversible engines. No. 1,317,270; Sept. 30; v. 266; p. 625.
- Crescent Machine Company, The. (See Harrold, Elmer, assignor.)
- Crescent Manufacturing Company. (See Coady, Frederick A., assignor.)
- Crescent Stove Works. (See Dietrich, Henry C., assignor.)
- Crescent Tool Manufacturing Company. (See Grundmann, William, assignor.)
- Cresmer, John H., Riverside, Calif. Form for concrete construction. No. 1,323,020; Nov. 25; v. 268; p. 667.
- Cress, Ben L. (See West, Harley L., assignor.)
- Cresse, Thomas W., assignor to Brod & Company, Newark, N. J. Jewelry. No. 1,325,315; Dec. 16; v. 269; p. 501.
- Cressman, George, German Valley, N. J. Game. No. 1,325,436; Dec. 16; v. 269; p. 522.
- Cressy, Anson H., Hartington, Nebr. Spark-plug. No. 1,313,522; Aug. 19; v. 265; p. 366.
- Cretors, Charles, Chicago, Ill. Timing mechanism. No. 1,309,564; July 8; v. 264; p. 316.
- Cretors, Charles, Chicago, Ill. Cover-operating mechanism. No. 1,309,565; July 8; v. 264; p. 316.
- Creveling, John L., Auburn, N. Y. Electric system. No. 1,301,080; Apr. 15; v. 261; p. 601.
- Creveling, John L., Auburn, N. Y. Electric regulation. No. 1,303,776; May 13; v. 262; p. 270.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,293,352; Feb. 4; v. 259; p. 88.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,293,720; Feb. 11; v. 259; p. 204.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric switch. No. 1,298,464; Mar. 25; v. 260; p. 670.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,301,231; Apr. 22; v. 261; p. 666.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,306,174; June 10; v. 263; p. 208.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,308,983; July 8; v. 264; p. 207.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,315,762; Sept. 9; v. 266; p. 243.
- Crews, Paul E., assignor to Golden Belt Manufacturing Company, Durham, N. C. Bag-closure. No. 1,318,974; Oct. 14; v. 267; p. 312.
- Crews, Ralph L., and G. F. Smith, Winston-Salem, N. C. Sawing-machine. No. 1,302,770; May 6; v. 262; p. 54.
- Crewson, Charles C., Kansas City, Mo. Brake-operating mechanism. No. 1,306,803; June 17; v. 263; p. 358.
- Cribbs, Emily, et al. (See Bailey, Anna D., assignor.)
- Cribbs, Mary, et al. (See Bailey, Anna D., assignor.)
- Crichton, Francis D., Lynchburg, Va. Flagstaff. No. 1,295,274; Feb. 25; v. 259; p. 624.
- Crichton, Leslie N., Salt Lake City, Utah, assignor to Westinghouse Electric and Manufacturing Company. System of electrical transmission and distribution. No. 1,292,584; Jan. 28; v. 258; p. 694.



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- Crichton, Leslie N., Salt Lake City, Utah, assignor to Westinghouse Electric and Manufacturing Company. Protective relay. No. 1,292,585; Jan. 28; v. 258; p. 694.
- Crichton, Leslie N., Salt Lake City, Utah, assignor to Westinghouse Electric and Manufacturing Company. Fuse for high-tension electrical circuits. No. 1,300,249; Apr. 15; v. 261; p. 422.
- Crichton, Leslie N., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical device. No. 1,308,048; July 1; v. 264; p. 8.
- Crichton, Willard G., Rye, N. Y. Robe-rail for automobiles. No. 1,290,101; Jan. 7; v. 258; p. 21.
- Crick, Owen J. P. (See Leighton and Crick.)
- Crider, Samuel N. (See Smith and Crider.)
- Criest, Frank, Sharpsville, Pa. Walking toy. No. 1,311,553; July 29; v. 264; p. 784.
- Crimmel, Alvie C., Hartford City, Ind. Sidewalk-light. No. 1,322,481; Nov. 18; v. 268; p. 515.
- Criner, Harry J., assignor to E. Urfer, Fort Madison, Iowa. Hog-oiler. No. 1,303,815; May 13; v. 262; p. 277.
- Crippen & Reid. (See Bradley, Aleyne G., assignor.)
- Criquetboeuf, Gaston. (See Camus, Duchemin, and Criquetboeuf.)
- Criqui, Albert A., Buffalo, N. Y. Centrifugal fan. No. 1,314,049; Aug. 26; v. 265; p. 499.
- Crislip, Chester A. (See Thompson, James V., assignor.)
- Crisman, Urie A., Burnham, Pa. Railway-tie. No. 1,310,649; July 22; v. 264; p. 583.
- Crist, Firman R., Pittston, Pa. Envelop. No. 1,294,356; Feb. 11; v. 259; p. 353.
- Crist, Firman R., assignor of one-half to K. S. Miller, Pittston, Pa. Vacuum-cover for receptacles. No. 1,299,682; Apr. 8; v. 261; p. 271.
- Crist, Mable. (See Lehmann, Adolph, assignor.)
- Cristiano, Bruno, Canonsburg, Pa. Mouthpiece for cornets and similar instruments. No. 1,305,691; June 3; v. 263; p. 87.
- Criswell, John R., et al. (See Egan and Jackson, assignors.)
- Critchett, James C., El Paso, Tex. Flying-machine. No. 1,294,774; Feb. 18; v. 259; p. 486.
- Critchlow, Benjamin P., Ogden, Utah. Gate. No. 1,292,437; Jan. 28; v. 258; p. 657.
- Critchlow, Edward C., Orcutt, Calif. Lubricating system. No. 1,319,425; Oct. 21; v. 267; p. 424.
- Critchlow, Edward C., Orcutt, Calif. Lubricator. No. 1,325,002; Dec. 16; v. 269; p. 441.
- Croaker, Wellmonde D., Glencara Warra, Queensland, Australia. Non-refillable bottle. No. 1,305,775; June 3; v. 263; p. 103.
- Crochat, Henry. (See Colardeau, Emmanuel L. P., assignor.)
- Crocker, Charles T., Fitchburg, Mass. Paper-making. No. 1,326,849; Dec. 30; v. 269; p. 841.
- Crocker, Elsha W., assignor to Gorham Manufacturing Company, Providence, R. I. Can-end-securing machine. No. 1,316,083; Sept. 16; v. 266; p. 318.
- Crocker, Ernest B., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Safety-valve-testing gag. No. 1,290,250; Jan. 7; v. 258; p. 122.
- Crocker, Howard, et al. (See Williams, Frank P., assignor.)
- Crocker, Matthew J., Helena, Ark., assignor of one-half to B. C. Pouncey, Memphis, Tenn. Cotton-gin condenser. No. 1,320,379; Nov. 4; v. 268; p. 4.
- Crockett, Frank L., North Uxbridge, assignor to Whitin Machine Works, Whitinsville, Mass. Top-feed-roll holder for cotton-combers. No. 1,292,717; Jan. 28; v. 258; p. 725.
- Crockett, Lewis M., Kalamazoo, Mich. Machine for setting up cartons. No. 1,311,321; July 29; v. 264; p. 740.
- Crockett, William C., Glasgow, Scotland. Means for electrically indicating the presence of saline, alkaline, or acid impurities in liquids. No. 1,320,036; Oct. 28; v. 267; p. 562.
- Crockett, William P., Harrison, N. J., assignor to The Singer Manufacturing Company. Power-transmitting mechanism. No. 1,318,648; Oct. 14; v. 267; p. 250.
- Croll, Albert J., assignor to North East Electric Company, Rochester, N. Y. Field-magnet. No. 1,314,128; Aug. 26; v. 265; p. 514.
- Crombie, Benjamin B., Port Chester, N. Y. Gyroscopic sedimentation apparatus. No. 1,301,544; Apr. 22; v. 261; p. 726.
- Crommett, Charles F., Malden, assignor to G. L. Cabot, Boston, Mass. Separating mixed gas. No. 1,304,027; May 20; v. 262; p. 354.
- Crompton, Charles, Worcester, Mass. Broken-pick extractor for looms. No. 1,319,759; Oct. 28; v. 267; p. 570.
- Crompton & Knowles Loom Works. (See Barlow, James H., assignor.)
- Crompton & Knowles Loom Works. (See Compagnon, Alexandre, assignor.)
- Crompton & Knowles Loom Works. (See Hillman, Victor E., assignor.)
- Crompton & Knowles Loom Works. (See Hutchins and Crossland, assignors.)
- Crompton & Knowles Loom Works. (See Le Doux, Hector, assignor.)
- Crompton & Knowles Loom Works. (See Marshall, Robert A., assignor.)
- Crompton & Knowles Loom Works. (See Regan, John, assignor.)
- Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
- Crompton, Lionel W., Tampa, Fla. Game apparatus. No. 1,311,112; July 22; v. 264; p. 668.
- Crompton, Samuel, assignor of one-half to A. Gregg, Belfast, Ireland. Device for removing and fastening the rivets securing the knives of reaping and like machines. No. 1,299,134; Apr. 1; v. 261; p. 118.
- Crompton, Thomas A., Jr., Ilford, England. Ventilating, fire-extinguishing, and steaming apparatus for gasoline or other tanks. No. 1,302,318; Apr. 29; v. 261; p. 904.
- Cromwell, John C., Cleveland, Ohio. Metal-casting apparatus. No. 1,312,164; Aug. 5; v. 265; p. 59.
- Cromwell, John C., Cleveland, Ohio. Forging apparatus. No. 1,314,636; Sept. 2; v. 266; p. 31.
- Cromwell, John C., Cleveland, Ohio. Power-hammer. No. 1,318,359; Oct. 14; v. 267; p. 194.
- Cron, Ernst G. (See Bredenberg and Cron.)
- Cronacher, Bernhard H. (See Kerckhoff, Jacob C., assignor.)
- Cronenberg, August W., Westport, Conn. Submarine battery. No. 1,224,220; Dec. 16; v. 269; p. 419.
- Croner, Marlin, Klemme, Iowa. Oiling device. No. 1,321,891; Nov. 18; v. 268; p. 404.
- Cronin, Timothy P., St. Louis, Mo. Spark-plug. No. 1,302,319; Apr. 29; v. 261; p. 905.
- Cronk, Harrison T., assignor to Cronk-Salter Company, New York, N. Y. Siphon-bowl. No. 1,301,821; Apr. 29; v. 261; p. 811.
- Cronk, Harrison T., assignor to Cronk-Salter Company, New York, N. Y. Fluid-conduit in closet-bowls. No. 1,308,581; July 1; v. 264; p. 105.
- Cronk, Harrison T., assignor to Cronk-Salter Company, New York, N. Y. Destructible closet-trap. No. 1,308,582; July 1; v. 264; p. 104.
- Cronk-Salter Company. (See Cronk, Harrison T., assignor.)
- Cronkright, Wesley G., assignor of one-half to A. J. Hunsaker, Chicago, Ill. Auxiliary power plant. No. 1,305,068; May 27; v. 262; p. 589.
- Cropper, William M., Lexington, Ky. Screen construction. No. 1,307,726; June 24; v. 263; p. 559.
- Crosby Automatic Door Company. (See Haskell, Brueske, and Palmer, assignors.)
- Crosby, Charles M., Springfield, Ohio, assignor to Crosby Locknut Company. Nut-lock. No. 1,294,410; Feb. 18; v. 259; p. 401.
- Crosby, Charles T., Grants Pass, Oreg. Igniting device. No. 1,294,625; Feb. 18; v. 259; p. 451.
- Crosby, Dell S., Chicago, Ill. Cheese-box. No. 1,308,893; July 8; v. 264; p. 190.
- Crosby, Dell S., Chicago, Ill., and S. E. Cullum, Tower, Minn. Drier. No. 1,300,701; Apr. 15; v. 261; p. 518.
- Crosby, Gorham. (See Cowan, Arthur E., assignor.)
- Crosby, Gorham, Glen Ridge, N. J., assignor to Gould Coupler Company. Regulation of electrical systems. No. 1,290,917; Jan. 14; v. 258; p. 243.
- Crosby, John B., Lake Bluff, and E. C. Lowe, Evanston, Ill. Toy building. No. 1,316,690; Sept. 23; v. 266; p. 481.
- Crosby, John C. (See Moore, Black, and Crosby.)
- Crosby, John J. (See Allen, John E., assignor.)
- Crosby Locknut Company. (See Crosby, Charles M., assignor.)
- Crosby, Otis M., Loveland, Colo. Automatic train control. No. 1,321,984; Nov. 18; v. 268; p. 421.
- Crosby Steam Gage & Valve Company. (See Clark, George H., assignor.)
- Crosby Steam Gage & Valve Company. (See Foster, Ralph W., assignor.)
- Crosby Steam Gage & Valve Company. (See Mitchell, James W., assignor.)
- Crosley, Powel, Jr., Cincinnati, Ohio. Explosive-engine starter. No. 1,302,637; May 6; v. 262; p. 29.
- Crosley, Powel, Jr., Cincinnati, Ohio. Curtain-light. No. 1,317,271; Sept. 30; v. 266; p. 625.
- Cross, Alexander D., Newark, N. J., assignor of one-half to G. H. Shamber, New York, N. Y. Manufacture of golf-bags. No. 1,325,692; Dec. 23; v. 269; p. 588.
- Cross, Arthur N., Philadelphia, Pa. Artificial tooth. No. 1,296,928; Mar. 11; v. 260; p. 288.
- Cross, Donald. (See Rintoul and Cross.)
- Cross, Harry, Montreal, Quebec, Canada. Shock-absorber. No. 1,326,850; Dec. 30; v. 269; p. 841.
- Cross, Harry B. (See Stow and Cross.)
- Cross, Henry T., assignor of one-half to Connecticut Brass & Manufacturing Corporation, Waterbury, Conn. Bridling apparatus for rolling-mills. No. 1,305,069; May 27; v. 262; p. 589.
- Cross, John H., Red Wing, assignor to The Waterman-Waterbury Company, Minneapolis, Minn. Agitator. No. 1,294,775; Feb. 18; v. 259; p. 487.
- Cross, Otto J. (See Barbee and Cross.)
- Cross Paper Feeder Company. (See Upham, Burt F., assignor.)
- Cross, Robert J. (See Kohman, Irvin, and Cross.)



## Alphabetical list of patentees—Continued.

- Cross, Roy, assignor to F. H. Thwing, Kansas City, Mo. Treating alunite. No. 1,301,394; Apr. 22; v. 261; p. 699.
- Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc. Treating hydrocarbons. No. 1,326,851; Dec. 30; v. 269; p. 842.
- Crossan, Edward R., Hannibal, Mo. Pencil-holder. No. 1,324,308; Dec. 9; v. 269; p. 249.
- Crossland, George. (See Hutchins and Crossland.)
- Crossley, Ernest G., Stockbridge, Mich. Wind-shield. No. 1,294,241; Feb. 11; v. 259; p. 327.
- Crossley, Kenneth L., and W. L. Webb, Openshaw, Manchester, England. Vertical internal-combustion gas and oil engine. No. 1,320,450; Nov. 4; v. 268; p. 18.
- Crossley, Noel, assignor of ten per cent. to M. J. Hunt, Bracebridge, Ontario, Canada. Combined eye shade and shield. No. 1,313,469; Aug. 19; v. 265; p. 355.
- Crossley, William H., Klamath Falls, Oreg. Vehicle-spring. No. 1,314,248; Aug. 26; v. 265; p. 538.
- Crossman, Alvin A. (See Alexander, Solomon, assignor.)
- Crossno, Charles M., Sallisaw, Okla. Evaporating-pan. No. 1,311,049; July 22; v. 264; p. 657.
- Crosswicks, Joseph M., Toronto, Ontario, Canada. Lathe-dog. No. 1,304,663; May 27; v. 262; p. 513.
- Crosthwait, David N., Jr., Marshalltown, Iowa. Thermo-static steam-trap. No. 1,315,596; Sept. 9; v. 266; p. 214.
- Crou, Kenneth L., Moundsville, W. Va. Harness-terret. No. 1,303,258; May 13; v. 262; p. 177.
- Crouch, Marion L., Milwaukee, Wis. Soap-molding machine. No. 1,308,753; July 8; v. 264; p. 165.
- Crouch, Walker L. (See Ohmer, Crouch, and Sibley.)
- Crouse, David E. (See Eldson, Davis, and Crouse.)
- Crouse, Emory, Wichita, Kans. Gasolene-dispensing device. No. 1,304,028; May 20; v. 262; p. 354.
- Crouse, Herbert L. (See Johnson and Crouse.)
- Crouse-Hinds Company. (See Bissell and Hastings, assignors.)
- Crouse-Hinds Company. (See Bissell and Smith, assignors.)
- Crouse-Hinds Company. (See Hastings, Harold P., assignor.)
- Crouse-Hinds Company. (See Olley, Edwin A., assignor.)
- Crouse-Hinds Company. (See Parker and Winter, assignors.)
- Crouse-Hinds Company. (See Smith, Elda G., assignor.)
- Crouse, Samuel W. (See Gillar and Crouse.)
- Crout, William R. (See Fryant and Crout.)
- Crow, Clarence E., Chesapeake, Ohio. Washing-machine. No. 1,297,107; Mar. 11; v. 260; p. 328.
- Crow, Waller, and J. C. Schaffer, Tiffin, Ohio. Furnace. No. 1,291,425; Jan. 14; v. 258; p. 361.
- Crowder, Raymond. (See MacKenzie and Crowder.)
- Crowder, Raymond, Edgewood, assignor to Guarantee Liquid Measure Company, Rochester, Pa. Controlling mechanism for liquid-dispensing apparatus. No. 1,297,801; Mar. 18; v. 260; p. 504.
- Crowe, Henry, Saltburn, England. Hydraulic-valve seating. No. 1,303,035; May 6; v. 262; p. 106.
- Crowe, Henry, Saltburn, England. Operating-gear for hydraulic valves. No. 1,313,523; Aug. 19; v. 265; p. 366.
- Crowe, John, assignor to Mechanical Belt Company, St. Joseph, Mo. Automatic chain-belt-making machine. No. 1,295,441; Feb. 25; v. 259; p. 662.
- Crowe, John, St. Joseph, Mo. Machine for measuring and winding wall-paper in commercial rolls. No. 1,298,013; Mar. 25; v. 260; p. 575.
- Crowe, Thomas. (See Sharples and Crowe.)
- Crowe, Thomas B., Victor, Colo., assignor to The Merrill Company, San Francisco, Calif. Process and apparatus for precipitating materials from solution. No. 1,321,985; Nov. 18; v. 263; p. 421.
- Crowell, Azariah F., Jr., Saltville, Va., assignor to Nitrogen Products Company, Providence, R. I. Furnace for nitrogen fixation. No. 1,321,892; Nov. 18; v. 268; p. 404.
- Crowell, Charles H., Brooklyn, N. Y. Corrugated paper box or other container. No. 1,299,683; Apr. 8; v. 261; p. 271.
- Crowell, Charles H., Brooklyn, N. Y. Making adhesive material. No. 1,300,250; Apr. 15; v. 261; p. 422.
- Crowell, Charles H., Brooklyn, N. Y. Multiple-length series-delivery tape-moistening machine. No. 1,305,776; June 3; v. 263; p. 103.
- Crowell, Charles H., Brooklyn, N. Y. Sealed-container tape-package. No. 1,322,180; Nov. 18; v. 268; p. 457.
- Crowell, Charles H. and G. H., Brooklyn, N. Y.; said G. H. Crowell assignor to said Charles H. Crowell. Making composite gummed fabrics. No. 1,323,021; Nov. 25; v. 268; p. 667.
- Crowell, Charles H. and G. H., Brooklyn, N. Y.; said G. H. Crowell assignor to said Charles H. Crowell. Composite gummed fabric. No. 1,323,022; Nov. 25; v. 268; p. 668.
- Crowell, George H. (See Crowell, Charles H. and G. H.)
- Crowell, William J., Jr., Lebanon, Pa. Indicating differential fluid-meter. No. 1,306,405; June 10; v. 263; p. 253.
- Crowell, William J., Jr., Wyncote, Pa. Ratio indicating and recording meter. No. 1,308,626; July 1; v. 264; p. 113.
- Crowell, William J., Jr., Wyncote, Pa. Calorimetric method of and apparatus for measuring steam-flow. No. 1,314,249; Aug. 26; v. 265; p. 538.
- Crowhurst, Albert E., Humber Bay, Ontario, Canada. Circulating device for hot-water heating systems. No. 1,290,521; Jan. 7; v. 258; p. 123.
- Crowley, Andrew J., Folsom, N. Mex. Airship. No. 1,321,722; Nov. 11; v. 268; p. 321.
- Crowley, Daniel J., Jr., Lawrence, Mass. Combined miter, bevel, square, and angle finder. No. 1,320,320; Oct. 28; v. 267; p. 614.
- Crowley, Daniel J., Jr., Lawrence, Mass. Planigraph. No. 1,320,321; Oct. 28; v. 267; p. 614.
- Crowley, Richard J., assignor of one-fifth to A. Kramer, one-fifth to T. R. Tennant, one-fifth to H. B. Tennant, and one-fifth to M. Rothman, Dallas, Tex. Battery. No. 1,306,214; June 10; v. 263; p. 215.
- Crown Cork and Seal Company of Baltimore City, The. (See Carper, Albert A., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Kryzanowsky, Constant J., assignor.)
- Crown Die and Tool Company. (See Beck, Edward E., assignor.)
- Crown Optical Company. (See Mihalyi, Joseph, assignor.)
- Crowthey, Henry M., Kingman, Ariz. Spark-plug. No. 1,314,129; Aug. 26; v. 265; p. 514.
- Crowthey, Henry M., Kingman, Ariz. Valve-grinder. No. 1,314,949; Sept. 2; v. 226; p. 87.
- Crozier, Arthur A., London, England. Making pneumatic tires. No. 1,315,710; Sept. 9; v. 266; p. 234.
- Crozier, Arthur A., London, England. Elastic tire. No. 1,323,160; Nov. 25; v. 268; p. 693.
- Crozier, James R., and R. J. Elmore, Ohio. Furnace. No. 1,295,275; Feb. 25; v. 259; p. 624.
- Crozier, Robert J. (See Crozier, James R. and R. J.)
- Cru Patents Corporation. (See Uebelmesser, Charles, assignor.)
- Cru Patents Corporation. (See Wenderhold, William, assignor.)
- Crucible Steel Company of America. (See Shonnard, Harold W., assignor.)
- Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Glass-carrying rod for glass-annealing leers. No. 1,308,337; July 1; v. 264; p. 60.
- Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Apparatus for annealing glass. No. 1,313,222; Aug. 12; v. 265; p. 293.
- Cruikshank, James W., assignor to J. W. Cruikshank Engineering Company, Pittsburgh, Pa. Glass-polishing apparatus. No. 1,318,848; Oct. 14; v. 267; p. 288.
- Crull, Charles V., assignor to Western Hog Oiler Company, Inc., Washington, Iowa. Hog-waterer. No. 1,319,567; Oct. 21; v. 267; p. 450.
- Crum, Dana P. (See Crum, Hollis B., W. P., and D. P.)
- Crum, Hollis B., W. P., and D. P., Chicago, Ill. Apparatus for mechanically tilling the soil. No. 1,317,432; Sept. 30; v. 266; p. 656.
- Crum, Reuel G., Virginia, Ill. Wagon-coupling. No. 1,323,455; Dec. 2; v. 269; p. 44.
- Crum, William P. (See Crum, Hollis B., W. P., and D. P.)
- Crumbs, John H., Lawrence, Kans. Feeding device for threshing-machines. No. 1,299,684; Apr. 8; v. 261; p. 271.
- Crume, Albert, Bakersfield, Calif. Beet-harvester. No. 1,303,857; May 20; v. 262; p. 323.
- Crump, Frank H., Los Angeles, Calif. Binder. No. 1,303,540; May 13; v. 262; p. 227.
- Crumpton, Enoch M., assignor of one-half to W. C. McCloud, Bryson, Tex. Dirigible headlight. No. 1,290,918; Jan. 14; v. 258; p. 244.
- Crupain, Morris, assignor of one-half to J. Wolff, New York, N. Y. Powder-puff. No. 1,305,070; May 27; v. 262; p. 590.
- Cruser, Frederick V. D. (See Fairborn and Cruser.)
- Crusius, Arthur A., New York, N. Y. Air-inlet device. No. 1,313,584; Aug. 19; v. 265; p. 378.
- Cruthers, Ellery M., Longmont, Colo., assignor of one-third to C. F. Andrews and one-third to F. M. Downer. Yieldable bearing and support therefor. No. 1,306,951; June 17; v. 263; p. 386.
- Cruzan, Albert, Lawrence, Kans. Vehicle-tire. No. 1,298,915; Apr. 1; v. 261; p. 69.
- Cryder, Dewey M., Adelphi, Ohio. Wind-shield cleaner. No. 1,300,349; Apr. 15; v. 261; p. 443.
- Cryer, James W., and N. Mangnall, assignor to William Wadsworth and Sons Limited, Bolton, England. Belt-driving mechanism. No. 1,291,426; Jan. 14; v. 258; p. 361.
- Crystal Alloys Corporation. (See Myers, Louis, assignor.)
- Crystal Washing Machine Company. (See Sperlich, Herman A., assignor.)
- Csanyi, Henry, New York, N. Y. Method and means for preparing and detonating explosives. No. 1,323,524; Dec. 2; v. 269; p. 57.
- Csehi, Laszlo, Detroit, Mich. Street and station indicator. No. 1,316,691; Sept. 23; v. 266; p. 481.
- Cubbison, Paul J., New Castle, Pa. Automobile-heater. No. 1,306,581; June 10; v. 263; p. 285.



- Cuddigan, Bartholomew O., assignor of one-third to W. H. Gehr, Wadena, Minn. Vegetable-loader. (Reissue.) No. 14,638; Apr. 22; v. 261; p. 777.
- Cuddigan, Bartholomew O., assignor of one-third to W. H. Gehr, Wadena, Minn. Potato-cutting machine. (Reissue.) No. 14,704; Aug. 12; v. 265; p. 297.
- Cuellar, Samuel D., North Pleasanton, Tex. Railway-switch. No. 1,325,396; Dec. 16; v. 269; p. 515.
- Culbertson, Warren W. (See O'Connor and Culbertson.)
- Culburn, Serenus M. (See Kees, Frederick.)
- Culbane, Patrick J., Jr., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Punch-presser. No. 1,315,010; Sept. 2; v. 266; p. 99.
- Cull, Henry, Chicago, Ill. Road-roller. No. 1,320,533; Nov. 4; v. 268; p. 33.
- Cullen, Christopher F., Mobile, Ala. Sewage system. No. 1,318,976; Oct. 14; v. 267; p. 313.
- Cullen, Ernest E., Anchorville, assignor of one-half to G. E. Venier, Fair Haven, Mich. Fly-swatter. No. 1,326,577; Dec. 30; v. 269; p. 790.
- Cullen, William J., Joliet, Ill., assignor to American Can Company, New York, N. Y. Container-body. No. 1,299,824; Apr. 8; v. 261; p. 303.
- Culley, Walter E., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Separable-tooth saw. No. 1,308,541; July 1; v. 264; p. 97.
- Cullings, Roswell E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulating system. No. 1,312,165; Aug. 5; v. 265; p. 59.
- Cullison, Elasha D., Chicago, Ill. Filler-cover. No. 1,314,306; Aug. 26; v. 265; p. 548.
- Cullum, Silas E. (See Crosby and Cullum.)
- Culmer, Harry H., Independence, Kans. Extinguishing oil-fires. No. 1,294,776; Feb. 18; v. 259; p. 487.
- Culmer, Harry H., Chicago, Ill. Non-puncturable tire. No. 1,310,113; July 15; v. 264; p. 453.
- Culmore, March J., A., Houston, Tex. Drill-bit. No. 1,306,371; June 10; v. 263; p. 247.
- Culp, Ernest M. (See Spencer, Harry E., assignor.)
- Culp, Jay S., Cleveland, assignor, by mesne assignments, to The Reliance Wheel Company, Youngstown, Ohio. Pressed-steel vehicle-wheel. No. 1,320,534; Nov. 4; v. 268; p. 33.
- Culp, Samuel T., Littleton, Colo. Tire-shoe-attaching means. No. 1,294,777; Feb. 18; v. 259; p. 487.
- Culter & Proctor Stove Co. (See Motherwell, Lee R., assignor.)
- Culton, James, Denver, Colo. Beet-harvester. No. 1,303,858; May 20; v. 262; p. 323.
- Culver, Fred E., Cleveland, Ohio. Multiple micrometer. No. 1,291,771; Jan. 21; v. 258; p. 473.
- Culver, James C. (See Jones and Culver.)
- Culver, Lawrence A., New York, N. Y. Telegrapher's instrument. No. 1,324,104; Dec. 9; v. 269; p. 210.
- Culver, Robert M., Girard, Ala. Self-starter-switch control. No. 1,310,690; July 22; v. 264; p. 590.
- Culverwell, Joseph F., assignor of one-half to L. G. Juhlbn, Washington, D. C. Storage-cabinet for phonographic disk records. No. 1,311,322; July 29; v. 264; p. 741.
- Cumberland Glass Mfg. Co., The. (See Shoemaker, Isaac L., assignor.)
- Cumber, Melvin B., Harrisburg, Pa. Aeroplane. No. 1,295,970; Mar. 4; v. 260; p. 35.
- Cumerford, George, Walkerton, and J. S. Lingard, Laporte, Ind. Gearing. No. 1,319,926; Oct. 28; v. 267; p. 543.
- Cumfer, Harry A., Chicago, Ill. Roofing and making same. No. 1,315,362; Sept. 9; v. 266; p. 172.
- Cummer, Arthur J., assignor of one-half to B. V. Kerper, Dubuque, Iowa. Harrow. No. 1,293,353; Feb. 4; v. 259; p. 88.
- Cumming, James D., et al. (See Garrow, John W., assignor.)
- Cumming, James D., Copper Cliff, Ontario, Canada. Support for reflectors. No. 1,295,701; Feb. 25; v. 259; p. 723.
- Cumming, John F., Worcester, Mass. Bowling-pin-setting device. No. 1,291,427; Jan. 14; v. 258; p. 361.
- Cumming, William G., Montreal, Quebec, Canada. Tire-inflating mechanism. No. 1,312,074; Aug. 5; v. 265; p. 42.
- Cummings, Arthur M. (See Duffee, Cummings, and Parker.)
- Cummings, Benjamin F., assignor of one-half to C. W. Davis, Locust Grove, Okla. Metallic tie and rail-faster. No. 1,311,323; July 29; v. 264; p. 741.
- Cummings, Earl H., Bismarck, N. D. Draining vessel. No. 1,299,135; Apr. 1; v. 261; p. 118.
- Cummings, George C. (See Mortimer and Cummings.)
- Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,303,036; May 6; v. 262; p. 106.
- Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,324,496; Dec. 9; v. 269; p. 286.
- Cummings, Henry H., Boston, Mass. Target-practice apparatus. No. 1,323,841; Dec. 2; v. 269; p. 116.
- Cummings, Herbert H., and A. J. Mummert, St. Louis, Mo., assignors to McQuay-Norris Manufacturing Company. Pattern-drawing machine. No. 1,313,882; Aug. 26; v. 265; p. 467.
- Cummings, Joseph R., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,310,063; July 15; v. 264; p. 444.
- Cummings, Lincoln C., Brookline, Mass. Non-skid tire-protector. (Reissue.) No. 14,696; July 29; v. 264; p. 841.
- Cummings, Patrick F., Norwood, N. Y. Washing apparatus. No. 1,300,128; Apr. 8; v. 261; p. 369.
- Cummings, Preston W., Chicago, Ill., assignor to Elevator Supplies Company, Inc. Relay or solenoid. No. 1,317,076; Sept. 23; v. 266; p. 552.
- Cummings, Thomas W. (See Rohan, James J., assignor.)
- Cummins, Orvil. (See Crawley, Harriett A., assignor.)
- Cummins, Robert B., Kokomo, Ind. Wheelbarrow. No. 1,325,557; Dec. 23; v. 269; p. 562.
- Cummins, William F., Oblong, Ill. Plunger-barrel. No. 1,323,352; Dec. 2; v. 269; p. 24.
- Cumner, Matthew S., New York, N. Y., and F. W. Geisenhainer, Freehold, N. J., assignors to Nestor Manufacturing Company, Inc., New York, N. Y. Lead-testing apparatus. No. 1,307,347; June 24; v. 263; p. 491.
- Cundall, Powell & Mosher. (See Mosher, Willet H., assignor.)
- Cunha, Anthony M., Providence, R. I. Wrench. No. 1,307,485; June 24; v. 263; p. 517.
- Cunniff, John V., assignor to J. K. Lanning, Fall River, Mass. Top-roll-saddle mechanism. No. 1,307,117; June 17; v. 263; p. 416.
- Cunning, Alexander, Port Huron, Mich. Pontoon for raising sunken vessels. No. 1,292,718; Jan. 28; v. 258; p. 725.
- Cunningham, Albina J., Bridgewater, Mass. Kitchen and table article. No. 1,305,777; June 3; v. 263; p. 103.
- Cunningham, Arthur B., Toledo, Ohio. Gas analyzing and recording apparatus. No. 1,311,952; Aug. 5; v. 265; p. 18.
- Cunningham, Charles W., Decatur, Ill. Electric brake for autos. No. 1,297,109; Mar. 11; v. 260; p. 328.
- Cunningham, Eckley S., Wonder, Nev. Detonation-cap. No. 1,293,354; Feb. 4; v. 259; p. 89.
- Cunningham, James C., Moscow Mills, Mo., assignor to Safety Rail Shoe & Coupling Company. Rail-joint. No. 1,315,470; Sept. 9; v. 266; p. 192.
- Cunningham, James R., Decatur, Ill. Rail. No. 1,307,852; June 24; v. 263; p. 583.
- Cunningham, John J., Manchester, N. H. Leather-cutting machine. No. 1,297,108; Mar. 11; v. 260; p. 328.
- Cunningham, John W., Tulsa, Okla. Oil-tank construction. No. 1,310,064; July 15; v. 264; p. 444.
- Cunningham, Lloyd U. (See Taylor, Thomas E., assignor.)
- Cunningham, Major M., Schenectady, N. Y., assignor to General Electric Company. Spring-coiling machine. No. 1,326,031; Dec. 23; v. 269; p. 650.
- Cunningham, Peter J., and A. R. Hammond, Jarbridge, Nev. Clothes-line attachment. No. 1,302,771; May 6; v. 262; p. 55.
- Cunningham Piano Company of Philadelphia, The. (See Kennedy, Otis M., assignor.) (Reissue.)
- Cunningham, Roy S., Los Angeles, Calif. Motor temperature regulator and fuel vaporizer. No. 1,319,271; Oct. 21; v. 267; p. 394.
- Cunningham, William P., Norristown, Pa. Apparatus and process for casting chain-links. No. 1,295,702; Feb. 25; v. 259; p. 723.
- Cunningham, William P., Norristown, Pa. Apparatus for casting chain-links. No. 1,295,703; Feb. 25; v. 259; p. 723.
- Cunningham, William P., Norristown, Pa. Means for holding sectional molds. No. 1,295,704; Feb. 25; v. 259; p. 724.
- Cunningham, William P., Norristown, Pa. Apparatus for casting chain-links. No. 1,312,955; Aug. 12; v. 265; p. 240.
- Cunningham, William P., Cleveland, Ohio, assignor, by mesne assignments, to The Guardian Savings & Trust Company, trustee. Clamp. No. 1,313,268; Aug. 19; v. 265; p. 318.
- Cuoghi, Ashbert, Brooklyn, N. Y. Valve-grinder. No. 1,315,909; Sept. 9; v. 266; p. 271.
- Cuomo, John, New York, N. Y. Knitting device. No. 1,309,318; July 8; v. 264; p. 270.
- Cureton, Richard W., Lordsburg, N. Mex. Grass-harvesting machine. No. 1,311,382; July 29; v. 264; p. 752.
- Curle, Charles W., San Francisco, Calif. Linotype-slug-sawing machine. No. 1,308,733; July 1; v. 264; p. 133.
- Curley, John A., Glens Falls, N. Y. Metal-joining compound. No. 1,316,833; Sept. 23; v. 266; p. 507.
- Curley, John A., Glens Falls, N. Y. Uniting metals differing in grades. No. 1,319,850; Oct. 28; v. 267; p. 527.
- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Electro-chemical method and apparatus of producing synthetic acetylene from organic liquid. No. 1,315,540; Sept. 9; v. 266; p. 204.



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- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Preparation of pure ethylene. No. 1,315,541; Sept. 9; v. 266; p. 204.
- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Preparing ethylene dichlorid. No. 1,315,542; Sept. 9; v. 266; p. 205.
- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Preparation of acetaldehyde. No. 1,315,543; Sept. 9; v. 266; p. 205.
- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Preparing acetone from acetic acid. No. 1,315,544; Sept. 9; v. 266; p. 205.
- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Preparing ethylene dichlorid from ethylene. No. 1,315,545; Sept. 9; v. 266; p. 205.
- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Preparation of acetic acid. No. 1,315,546; Sept. 9; v. 266; p. 205.
- Curme, George O., Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Making propylene dichlorid. No. 1,315,547; Sept. 9; v. 266; p. 206.
- Curragh, John M. (See Budlong, Frank M., assignor.)
- Curran, Arthur C., Brooklyn, N. Y. Lock for gear-shift levers. No. 1,321,012; Nov. 4; v. 268; p. 123.
- Curran, Edward T., Detroit, Mich. Water-heater. No. 1,295,125; Feb. 25; v. 259; p. 590.
- Curran, Frank J. M. (See Whittier and Curran.)
- Curran, Frank W. (See Smith and Curran.) (Reissue.)
- Curran, Thomas, and J. L. Morton, Chicago, Ill. Supporting-stand for tailors' pressing-irons. No. 1,319,949; Oct. 28; v. 267; p. 546.
- Currie, Alexander L., Sorel, Quebec, Canada. Portable railway-signal. No. 1,301,914; Apr. 29; v. 261; p. 829.
- Currie, Alexander L., Sorel, Quebec, Canada. Railway-signal. No. 1,320,380; Nov. 4; v. 268; p. 5.
- Currie, Emerson, Palo Alto, assignor of one-half to W. C. Honea, Los Angeles, Calif. Carburetor attachment. No. 1,297,662; Mar. 18; v. 260; p. 473.
- Currie, Otis C., Detroit, assignor to C. D. Stomler, Marine City, Mich. Sanitary toilet. No. 1,291,428; Jan. 14; v. 258; p. 362.
- Currie, William E. (See Simpson, Selden L., assignor.)
- Currier, Alfred M., Aberdeen, Wash. Insertible saw-tooth. No. 1,326,032; Dec. 23; v. 269; p. 651.
- Currier, George A., St. Louis, Mo. Cultivator. No. 1,291,772; Jan. 21; v. 258; p. 473.
- Currier, Hiram D., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Trunk-circuit. No. 1,306,406; June 10; v. 263; p. 253.
- Currier, Hiram D., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone system having instantaneous disconnect and recall. No. 1,306,804; June 17; v. 263; p. 359.
- Currier, Hiram D., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Trunk-circuit. No. 1,307,538; June 24; v. 263; p. 526.
- Currier, Hiram D., Chicago, and H. H. Ide, La Grange, assignors to Kellogg Switchboard & Supply Company, Chicago, Ill. Automatic test and ringing circuits. No. 1,311,156; July 29; v. 264; p. 710.
- Currier, Hiram D., Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,312,894; Aug. 12; v. 265; p. 228.
- Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,316,477; Sept. 16; v. 266; p. 392.
- Curry, Arthur B., Highland Park, assignor of fifty-one one-hundredths to M. A. Mahoney, Detroit, Mich. Spark-plug. No. 1,315,214; Sept. 9; v. 266; p. 146.
- Curry, Arthur T. (See Kendrick and Curry.)
- Curry, Henry B., Louisville, Ky. Silo-base anchor. No. 1,305,692; June 3; v. 263; p. 88.
- Curry, John F., New York, N. Y. Game-board. No. 1,307,437; June 24; v. 263; p. 508.
- Curry, Joseph, Renton, Wash. Safety-brake for elevators. No. 1,311,050; July 22; v. 264; p. 657.
- Curry, Malcolm, Holyoke, Mass. Furnace. No. 1,292,586; Jan. 28; v. 258; p. 694.
- Curtain Supply Company, The. (See Kipp, Alfred J., assignor.)
- Curtain Supply Company, The. (See Mounce, Robert S., assignor.)
- Curtain Supply Company, The. (See Whitmore, Edward E., assignor.) (Reissue.)
- Curtainless Shower Company. (See Pitcher, Hugh B., assignor.)
- Curtin, David F., Chicago, Ill. Holder for paper cups. No. 1,303,171; May 6; v. 262; p. 132.
- Curtin, David F., Chicago, Ill. Sanitary spoon. No. 1,323,619; Dec. 2; v. 269; p. 74.
- Curtin, E. S. (See Moran, Thomas W., assignor.)
- Curtin, John. (See Baldwin and Curtin.)
- Curtis, Albion P. (See Irvin and Curtis.)
- Curtis, Almon W., Cortland, N. Y. One-man top for automobiles. No. 1,293,355; Feb. 4; v. 259; p. 89.
- Curtis, Almon W., Cortland, N. Y. One-man top. No. 1,298,014; Mar. 25; v. 260; p. 576.
- Curtis, Almon W., Cortland, N. Y. Folding carriage-top. No. 1,312,836; Aug. 12; v. 265; p. 218.
- Curtis, Almon W., Cortland, N. Y. Folding carriage-top for automobiles. No. 1,312,837; Aug. 12; v. 265; p. 218.
- Curtis, Arthur R. (See Hayes and Curtis.)
- Curtis, Augustus D., assignor to National X-Ray Receptor Co., Chicago, Ill. Lighting-fixture. No. 1,295,705; Feb. 25; v. 259; p. 724.
- Curtis, Austen M., Brooklyn, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Protector for electric circuits. No. 1,325,889; Dec. 23; v. 269; p. 624.
- Curtis Brothers Handle Company. (See Curtis, Oscar O., assignor.)
- Curtis, Charles F., Pontardawe, Wales. Composition for the manufacture of linings of acid-pots or such like vessels. No. 1,311,051; July 22; v. 264; p. 657.
- Curtis, Frank C., Troy, N. Y. Machine for making spiral dy-traps. No. 1,298,180; Mar. 25; v. 260; p. 610.
- Curtis, George A., Medford, Mass. Wire nail. No. 1,298,015; Mar. 25; v. 260; p. 576.
- Curtis, George L., New York, N. Y. Fishing-reel attachment. No. 1,307,960; June 24; v. 263; p. 603.
- Curtis, George V., Springfield, Mass., assignor to Baush Machine Tool Company. Countersinking-machine. No. 1,307,897; June 24; v. 263; p. 591.
- Curtis, George V., Springfield, Mass., assignor to Baush Machine Tool Company. Drilling-machine. No. 1,320,208; Oct. 28; v. 267; p. 593.
- Curtis, George V., West Springfield, Mass. Universal joint. No. 1,323,023; Nov. 25; v. 268; p. 688.
- Curtis, George W., Boulder, Colo. Animal-trap. No. 1,323,024; Nov. 25; v. 268; p. 668.
- Curtis, Harry D., Red Bank, N. J. Fitting-band for hats, &c. No. 1,296,051; Mar. 4; v. 260; p. 54.
- Curtis, Henry E., San Jose, Calif. Carburetor. No. 1,309,719; July 15; v. 264; p. 382.
- Curtis, Jesse T., assignor of one-third to F. L. McClure and one-third to F. T. Le Fevre, Sebring, Ohio. Warning system for gas or oil. No. 1,326,578; Dec. 30; v. 269; p. 790.
- Curtis, Kenneth L., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. Circuit-controlling apparatus. No. 1,294,411; Feb. 18; v. 259; p. 402.
- Curtis-Leger Fixture Co. (See Hotchkiss, Paul M., assignor.)
- Curtis, Leonard D. (See Hecklinger, George B., assignor.)
- Curtis, Lewis E. (See Benson and Curtis.)
- Curtis, Louis R., Chicago, Ill., assignor to Frank S. Betz Company, Hammond, Ind. Vacuum casting-machine. No. 1,300,821; Apr. 15; v. 261; p. 544.
- Curtis, M. Bass. (See Giddens, Perry G., assignor.)
- Curtis & Marble Machine Company. (See Marble, Edwin H., assignor.)
- Curtis, Oscar O., assignor to Curtis Brothers Handle Company, Fort Madison, Iowa. Automatic gear-shift for lathes. No. 1,293,629; Feb. 4; v. 259; p. 152.
- Curtis, Oscar O., assignor to Curtis Brothers Handle Company, Fort Madison, Iowa. Lathe-rest. No. 1,316,535; Sept. 16; v. 266; p. 404.
- Curtis Publishing Company (See Grammer, Allen L., assignor.)
- Curtis, W. R., et al. (See Sartain, Louis M., assignor.)
- Curtis, Walter, Willesden Green, London, England. Means for controlling the electric lighting of motor-vehicles. No. 1,313,583; Aug. 19; v. 265; p. 377.
- Curtis, William. (See Chamier and Curtis.)
- Curtis, William H., West Baden, Ind. Portable seat structure. No. 1,301,107; Apr. 22; v. 261; p. 640.
- Curtis, William W., Chicago, Ill. Grinding-wheel for dental purposes. No. 1,303,541; May 13; v. 262; p. 227.
- Curtiss Aeroplane and Motor Corporation. (See Burgess, William S., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Curtis, Glenn H., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Curtis and Gilmore, assignors.)
- Curtiss Aeroplane and Motor Corporation. (See Dalton, Nelson W., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Gilmore and Valk, assignors.)
- Curtiss Aeroplane and Motor Corporation. (See Kemble, Thomas S., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)
- Curtiss Aeroplane and Motor Corporation. (See MacGregor, Charles G., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Mesner, William G., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Snell, Harry B., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Tarbox, John P., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Zahm, Albert F., assignor.)



- Curtiss Aeroplane and Motor Corporation. (See Zimmermann, Paul G., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Zimmermann and Kleckler, assignors.)
- Curtiss Engineering Corporation. (See Curtiss, Glenn H., assignor.)
- Curtiss, George W., Kansas City, Mo. Theater-curtain. No. 1,299,429; Apr. 8; v. 261; p. 213.
- Curtiss, Glenn H., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Twin-fuselage construction. No. 1,294,412; Feb. 18; v. 259; p. 402.
- Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Autoplane. No. 1,294,413; Feb. 18; v. 259; p. 402.
- Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Aeroplane construction. No. 1,295,084; Feb. 18; v. 259; p. 556.
- Curtiss, Glenn H., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Hydroaerocraft. No. 1,296,630; Mar. 11; v. 260; p. 218.
- Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Twin-float hydro-aeroplane. No. 1,306,749; June 17; v. 263; p. 349.
- Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Cruising hydroaeroplane. No. 1,316,277; Sept. 16; v. 266; p. 354.
- Curtiss, Glenn H., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Triplane speed-scout. No. 1,316,278; Sept. 16; v. 266; p. 354.
- Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Speed scout-aeroplane. No. 1,316,279; Sept. 16; v. 266; p. 354.
- Curtiss, Glenn H., assignor to Curtiss Engineering Corporation, Garden City, N. Y. Folding-wing airplane. No. 1,316,280; Sept. 16; v. 266; p. 354.
- Curtiss, Glenn H., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Reconnoitering-aeroplane. No. 1,323,842; Dec. 2; v. 269; p. 116.
- Curtiss, Glenn H., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Fuel-supply system. No. 1,323,843; Dec. 2; v. 269; p. 116.
- Curtiss, Glenn H., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane landing-gear. No. 1,296,770; Mar. 11; v. 260; p. 251.
- Curtiss, Glenn H., Garden City, assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Aeroplane-wing truss. No. 1,306,750; June 17; v. 263; p. 349.
- Curtiss, Glenn H., Garden City, assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Combination landing-gear for aeroplanes. No. 1,306,751; June 17; v. 263; p. 349.
- Curtiss, Glenn H., and W. L. Gilmore, Garden City, N. Y., assignors to Curtiss Aeroplane and Motor Corporation. Hull for flying-boats. No. 1,294,414; Feb. 18; v. 259; p. 402.
- Curtiss, Glenn H., and W. L. Gilmore, Garden City, N. Y., assignors to Curtiss Aeroplane and Motor Corporation. Flying-boat. No. 1,294,415; Feb. 18; v. 259; p. 402.
- Curtiss, J. W. G. (See Fraser, Lester C., assignor.)
- Cushing, John G., Los Angeles, and F. C. Munro, Long Beach, Calif. Printing-machine. No. 1,305,778; June 3; v. 263; p. 104.
- Cushing, Richard L., Tiskilwa, Ill. Explosive shell. No. 1,306,215; June 10; v. 263; p. 215.
- Cushman, Abe L., Concord, N. H. Centrifugal switch. No. 1,317,757; Oct. 7; v. 267; p. 18.
- Cushman, Allerton S., Bridesburg, Pa. Priming mixture. No. 1,325,928; Dec. 23; v. 269; p. 631.
- Cushman, Charles S., Barre, Vt. Magnetic heater. No. 1,307,773; June 24; v. 263; p. 568.
- Cushman, Sarah W., Norwich, N. Y. Garment-button. No. 1,298,016; Mar. 25; v. 260; p. 576.
- Cushman, Sarah W., Norwich, N. Y. Garment-button. No. 1,325,003; Dec. 16; v. 269; p. 442.
- Cushman, William F., Boston, Mass. Clip for pens or pencils. No. 1,321,893; Nov. 18; v. 268; p. 404.
- Cusick, Wilfred L., Follansbee, W. Va. Combined level, plumb, and gage. No. 1,308,699; July 1; v. 264; p. 126.
- Custer, David W., Sydney, Australia, assignor to E. O. Townsend, Mansfield, Ohio. Method of and apparatus for stoneworking. No. 1,313,269; Aug. 19; v. 265; p. 319.
- Cuthbert, George, assignor to Manning J. Smith Belting Company, Philadelphia, Pa. Loom for weaving endless fabrics. No. 1,320,742; Nov. 4; v. 268; p. 72.
- Cutler, Clifford A., Buffalo, N. Y. Aeroplane-propeller. No. 1,301,108; Apr. 22; v. 261; p. 641.
- Cutler-Hammer Manufacturing Co., The. (See Boller, Frank, assignor.)
- Cutler-Hammer Manufacturing Co., The. (See Lent, Wilmar F., assignor.)
- Cutler-Hammer Manufacturing Company, The. (See Stockle, Erwin R., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Barnum, Thomas B., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Coulter, Leonard P., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Evans, Clarence T., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Foote, Edward T., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Fernow, Bernard E., Jr., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Goldenstein, Maurice M., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Hadaway, William S., Jr., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Harries, Herbert J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Horton, Albert J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Hunter, Richard B., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Mortensen, Niels L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Mortensen and Lent, assignors.)
- Cutler-Hammer Mfg. Co., The. (See Packard, Horace N., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Parkhurst and Burd, assignors.)
- Cutler-Hammer Mfg. Co., The. (See Radley, Guy R., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Rowell, Lewis D., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)
- Cutler-Hammer Mfg. Co., The. (See Simon and Sessions, assignors.)
- Cutler-Hammer Mfg. Co., The. (See Stevens, William, assignor.)
- Cutler-Hammer Mfg. Co., The. (See Tatum, Lewis L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Tower and Van Nest, assignors.)
- Cutler-Hammer Mfg. Co., The. Wiegand, Henry J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Zimmer, Paul H., assignor.)
- Cutler, Henry H., Brookline, Mass. Gas-engine. No. 1,301,658; Apr. 22; v. 261; p. 748.
- Cutler, Isabella M., North Glendale, Cal. Refrigerator. No. 1,290,535; Jan. 7; v. 258; p. 126.
- Cutler, Isabella M., North Glendale, Cal. Refrigerator. No. 1,290,772; Jan. 7; v. 258; p. 183.
- Cutler, William C., North Glendale, Cal. Card-case. No. 1,296,484; Mar. 4; v. 260; p. 149.
- Cutright, Ishmael G. (See Sharps and Cutright.)
- Cutter, Arthur L., St. Louis, Mo. Cloth-laying machine. No. 1,316,692; Sept. 23; v. 266; p. 481.
- Cutter, George A., Dedham, assignor to Thomson Electric Welding Company, Lynn, Mass. Adjustable electrode for electric riveting-machines. No. 1,292,438; Jan. 28; v. 258; p. 658.
- Cutter, George A., Dedham, Mass., assignor to Thomson Electric Welding Company. Electric metal-working apparatus. No. 1,308,399; July 1; v. 264; p. 72.
- Cutter, James H. (See Schneider, Charles C., assignor.)
- Cutting, Benjamin N. (See Land, Charles H., Jr., assignor.)
- Cutting, Don D., Seattle, Wash. Tag-fastening means. No. 1,305,693; June 3; v. 263; p. 88.
- Cutting, George B., Worcester, Mass. Retainer for rail-spikes. No. 1,294,778; Feb. 18; v. 259; p. 487.
- Cutting, Theodore A., Campbell, Calif. Automatic electric cooker. No. 1,326,443; Dec. 30; v. 269; p. 764.
- Cyclone Manufacturing Company, The. (See Speicher, Paul J., assignor.)
- Cygnat Mfg. Co. (See Messersmith, Edgar C., assignor.)
- Cypert, Joseph A., Kansas City, Mo. Heat-shield for automobiles. No. 1,295,858; Mar. 4; v. 260; p. 9.
- Cyphert, Frank W., Curllsville, Pa. Handle for crosscut-saws. No. 1,318,481; Oct. 14; v. 267; p. 218.
- Cyrus, Henry W., Astoria, Oreg. Non-refillable bottle. No. 1,315,287; Sept. 9; v. 266; p. 159.
- Czaran, Otto, Glendale, N. Y. Harvester-reel and actuating mechanism therefor. No. 1,299,685; Apr. 8; v. 261; p. 272.
- Czaran, Otto, Glendale, N. Y. Platform-adjusting device for harvesters. No. 1,299,686; Apr. 8; v. 261; p. 272.
- Czavra, Ignati A., Rochester, N. Y. Automatic gun. No. 1,321,419; Nov. 11; v. 268; p. 265.
- Czechowicz, Jakob, Terre Haute, Ind. Self-propelling invalid-chair. No. 1,297,449; Mar. 18; v. 260; p. 429.
- Czerwinski, Wladyslaw. (See Jasinski, Piotr, assignor.)
- Czippan, Gyorgy, Philadelphia, Pa. Auto-turning device. No. 1,301,659; Apr. 22; v. 261; p. 748.
- D. Gruen Watch Company, The. (See Gruen, Frederick G., assignor.)
- D. Napier & Son. (See Mortimer, George, assignor.)
- D. Napier & Son Limited. (See Rowledge, Arthur J., assignor.)
- D & D Electric Company. (See Desure, Samuel, assignor.)
- D and D Auto Lock Co., The. (See Davis, Otis L., assignor.)



## Alphabetical list of patentees—Continued.

- D. H. Burrell & Company. (See Dalzell, Charles B., assignor.)  
D. H. Burrell & Co. (See Feldmeier, Harvey, assignor.)  
D. M. Sechler Implement & Carriage Company. (See Englund, Ernst E., assignor.)  
D. M. Sechler Implement & Carriage Company. (See Hartsock, Sherman C., assignor.)  
D & W Fuse Company. (See Downes, Louis W., assignor.)  
D & W Fuse Company. (See Downes and Mayer, assignors.)  
D'Agostino, Giuseppe, Rome, N. Y. Tire-protector. No. 1,318,268; Oct. 7; v. 267; p. 117.  
D'Aix, Fritz C. L., Brooklyn, N. Y. Internal-combustion engine. No. 1,308,400; July 1; v. 264; p. 72.  
D'Aloisio, Silvio, Windber, Pa. Pedal-driven swimming apparatus. No. 1,320,190; Oct. 28; v. 267; p. 590.  
D'Angelillo, Pellegrino, New York, N. Y. Milk-bottle holder. No. 1,296,369; Mar. 4; v. 260; p. 125.  
D'Arcy, Frank P., Kalamazoo, Mich. Cushion. No. 1,291,773; Jan. 21; v. 258; p. 473.  
D'Arcy, Frank P., Kalamazoo, Mich. Hose-clamp. No. 1,304,546; May 27; v. 262; p. 492.  
D'Arcy, George W., Boston, Mass. Apparatus for humidifying air. No. 1,302,515; May 6; v. 262; p. 7.  
D'Egilbert, William A., and B. Garland, Willows, Calif. Bull-wheel cleaner. No. 1,321,988; Nov. 18; v. 268; p. 421.  
D'Humy, Fernand E., Englewood, N. J. Garage. No. 1,298,183; Mar. 25; v. 260; p. 611.  
D'Humy, Fernand E., Englewood, N. J. Illuminating device. No. 1,324,008; Dec. 2; v. 269; p. 148.  
D'Humy, Fernand E., Englewood, N. J. Electric-light fixture. No. 1,326,393; Dec. 30; v. 269; p. 754.  
D'Orsay, Isabel, New York, N. Y. Apparatus for treating parts of the human body. No. 1,312,619; Aug. 12; v. 265; p. 176.  
D'Yarmett, Edward C., Muskogee, Okla. Centrifugal pump for compression and vacuum. No. 1,310,116; July 15; v. 264; p. 454.  
Da Costa, Arthur V., Arlington, assignor to The Insel Company, Newark, N. J. Toy. No. 1,299,430; Apr. 8; v. 261; p. 213.  
Da Rosa, Edward L., Elk Grove, Calif. Self-serving store. No. 1,313,794; Aug. 19; v. 265; p. 417.  
Da Silva, Raul R., Rio de Janeiro, Brazil. Treating hides and skins. No. 1,304,030; May 20; v. 262; p. 355.  
Dabney, Charley. (See Dabney, Harvey and C.)  
Dabney, Frank C., Wichita, Kans. Table-slide. No. 1,299,687; Apr. 8; v. 261; p. 272.  
Dabney, Harvey and C., Harrisburg, Ill. Wrench. No. 1,323,844; Dec. 2; v. 269; p. 114.  
Dachsel, Harry P., Mountain View, Ark. Flour-sifter attachment. No. 1,314,467; Aug. 26; v. 265; p. 579.  
Dacunto, N. (See Bremer, Russell H., assignor.)  
Dade, Thomas G., Fort Smith, Ark. Manufacturing wheel-treads. No. 1,303,859; May 20; v. 262; p. 324.  
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve and means for making the same. No. 1,294,416; Feb. 18; v. 259; p. 403.  
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve for internal-combustion engines. No. 1,294,417; Feb. 18; v. 259; p. 403.  
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve structure. No. 1,294,418; Feb. 18; v. 259; p. 403.  
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Internal-combustion-engine valve. No. 1,294,419; Feb. 18; v. 259; p. 403.  
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve for internal-combustion engines. No. 1,306,175; June 10; v. 263; p. 208.  
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Valve and means for cooling the same. No. 1,306,470; June 10; v. 263; p. 265.  
Dady, Arthur O., New York, N. Y., assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Exhaust-valve and means for cooling the same. No. 1,306,471; June 10; v. 263; p. 265.  
Dady, Joseph A., Kellogg, Minn. Gopher-poisoner. No. 1,296,771; Mar. 11; v. 260; p. 251.  
Daellenbach, Carl R., assignor to one-half to H. H. Hancher, Ellwood City, Pa. Vacuum system. No. 1,298,903; Apr. 1; v. 261; p. 66.  
Daffron, Hencel, Detroit, Mich. Spark-plug. No. 1,295,126; Feb. 25; v. 259; p. 590.  
Dagenais, Joseph A., Hull, Quebec, Canada. Electric heating attachment for cook stoves and ranges. No. 1,322,670; Nov. 25; v. 268; p. 601.  
Daggett, Frederick K. (See Cheney, Charles C., assignor.)  
Daggett, Harry M., Oakland, Cal. Tire-holder. No. 1,295,442; Feb. 25; v. 259; p. 662.  
Daggs, Herbert W., Rochester, N. Y. Seal-lock. No. 1,313,270; Aug. 19; v. 265; p. 319.  
Dahl, Benjamin, Minneapolis, Minn. Resilient tire. No. 1,294,420; Feb. 18; v. 259; p. 403.  
Dahl, Elmer B. (See Dahl, John C., assignor.)  
Dahl, Fredrik B., Christiania, Norway. Hand printing-stamp. No. 1,319,568; Oct. 21; v. 267; p. 451.  
Dahl, John C., Pine River, Minn. Plow-trip. No. 1,295,127; Feb. 25; v. 259; p. 590.  
Dahl, John C., assignor to one-half to E. B. Dahl, Pine River, Minn. Broom attachment. No. 1,311,953; Aug. 5; v. 265; p. 19.  
Dahl, Lars J., and A. E. Allen, Alpha, Minn. Electric and thermostatic indicator and alarm. No. 1,297,326; Mar. 18; v. 260; p. 404.  
Dahl, Otto, Seattle, Wash. Flue-cleaner for boilers. No. 1,311,439; July 29; v. 264; p. 763.  
Dahl, Thure, Brooklyn, assignor to Lightolier Company, New York, N. Y. Design for a bowl-hanger. (Re-issue.) No. 14,735; Oct. 14; v. 267; p. 324.  
Dahl, Thure, Brooklyn, assignor to Lightolier Company, New York, N. Y. Design for a fixture-arm. (Re-issue.) No. 14,736; Oct. 14; v. 267; p. 324.  
Dahl, Thure, Brooklyn, assignor to Lightolier Company, New York, N. Y. Design for a bracket-back. (Re-issue.) No. 14,737; Oct. 14; v. 267; p. 324.  
Dahlberg, B. G. (See Shaw, John K., assignor.)  
Dahlberg, Charles L., Des Moines, Iowa. Book-holder and line-guide. No. 1,317,004; Sept. 23; v. 266; p. 538.  
Dahlen, Julian L., Borup, Minn. Hay-stacker. No. 1,324,799; Dec. 16; v. 269; p. 405.  
Dahlgren, Charles J., East Orange, N. J. Button-fastener. No. 1,290,919; Jan. 14; v. 258; p. 244.  
Dahlmon, Emil E., Clintonville, Wis. Drive connection for dirigible vehicle-wheels. No. 1,307,961; June 24; v. 263; p. 603.  
Dahlstrand, Hans P., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine system. No. 1,309,796; July 15; v. 264; p. 396.  
Dahlstrand, Josef Y., assignor to Kerr Turbine Company, Wellsville, N. Y. Turbine-bucket blade and making the same. No. 1,307,082; June 17; v. 263; p. 410.  
Dahlstrom, John. (See Thomas and Dahlstrom.)  
Dahn, Charles F. A., Calumet, Mich. Grain-shocking machine. No. 1,323,678; Dec. 2; v. 269; p. 85.  
Daigh, Charles R., assignor to one-half to H. H. Poole, Parsons, Kans. Grain-saving device for threshing-machines. No. 1,324,233; Dec. 9; v. 269; p. 234.  
Daigre, Amand D., Levallois-Perret, France. Elastic tire for wheels of vehicles and forming the same. No. 1,316,773; Sept. 23; v. 266; p. 496.  
Daigre, Amand D., Levallois-Perret, France. Protective armoring. No. 1,324,234; Dec. 9; v. 269; p. 235.  
Dailey, Clarence L., Jeffersonville, Ind. Feed-box. No. 1,296,772; Mar. 11; v. 260; p. 252.  
Dailey, Russell L., Kansas City, Mo. Variable-speed-transmission gearing. No. 1,317,272; Sept. 30; v. 266; p. 625.  
Dailey, Thomas H., Chicago, Ill. Irrigating device. No. 1,295,706; Feb. 25; v. 259; p. 724.  
Daily, Dora S., San Francisco, Calif. Separable cuff or collar and shirts. No. 1,319,851; Oct. 28; v. 267; p. 528.  
Daily, William H., Tucson, Ariz. Wheel. No. 1,290,920; Jan. 14; v. 258; p. 244.  
Daily, William H., Tucson, Ariz. Talking-machine. No. 1,294,626; Feb. 18; v. 259; p. 451.  
Dain, Joseph, assignor to Deere and Company, Moline, Ill. Tractor-wheel. No. 1,298,017; Mar. 25; v. 260; p. 576.  
Dain, Joseph, assignor to Deere & Company, Moline, Ill. Dirigible driving-wheel. No. 1,304,029; May 20; v. 262; p. 354.  
Dain, Joseph, assignor to Deere and Company, Moline, Ill. Power-transmission mechanism. No. 1,316,774; Sept. 23; v. 266; p. 497.  
Dain Manufacturing Company of Iowa. (See Bowers, Robert R., assignor.)  
Dain Manufacturing Company of Iowa, The. (See Clausen, Leon R., assignor.)  
Dain Manufacturing Company of Iowa. (See Moschel, Herman, assignor.)  
Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)  
Dake, Charles W., Chicago, Ill. Lock-nut. No. 1,316,084; Sept. 16; v. 266; p. 318.  
Dake, Charles W., Chicago, Ill. Lock-nut. No. 1,321,894; Nov. 18; v. 268; p. 404.  
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Damper-controller. No. 1,298,904; Apr. 1; v. 261; p. 66.  
Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Piston distribution-valve. No. 1,308,001; June 24; v. 262; p. 611.  
Dake, Ralph, St. Paul, Minn. Variable-speed gearing. No. 1,318,260; Oct. 14; v. 267; p. 194.  
Dakin, Edward W., and E. E. Underwood, assignors to Eastman Kodak Company, Rochester, N. Y. Shutter-operating device. No. 1,297,327; Mar. 18; v. 260; p. 404.  
Dal Poggetto, Charles, Sonoma, Calif. Broom. No. 1,300,770; Apr. 15; v. 261; p. 533.  
Dalberg, Carl W., Deary, Idaho. Combined flash-light and mirror. No. 1,304,856; May 27; v. 262; p. 550.  
Dalboni, Carlo, A. Gasperetti, and R. Albanese, New York, N. Y. Lock. No. 1,325,510; Dec. 23; v. 269; p. 554.  
Dalby, William E. (See Wilson and Dalby.)  
Dale, Frank M., Sullivan, Ind. Drilling appliance. No. 1,301,395; Apr. 22; v. 261; p. 699.



- Dale, John H., New York, N. Y., assignor to Dale Lighting Fixture Co., Inc. Electric incandescent lamp. No. 1,298,299; Mar. 25; v. 260; p. 636.
- Dale Lighting Fixture Co. (See Dale, John H., assignor.)
- Dalén, Gustaf, Lidingön, Stockholm, Sweden. Sound-signal apparatus. No. 1,292,439; Jan. 28; v. 258; p. 658.
- Dalén, Gustaf, Skärsåtra, Lidingön, Sweden. Regulating device for the temperature of heating fluid in heating systems. No. 1,319,047; Oct. 21; v. 267; p. 351.
- Dalén, Gustaf, Stockholm, Sweden. Incandescent gas flash-light apparatus. No. 1,320,209; Oct. 28; v. 267; p. 593.
- Dalén, Gustaf, Skärsåtra, Lidingön, Stockholm, Sweden. Device for suddenly opening and closing valves in certain intervals of time. No. 1,320,451; Nov. 4; v. 268; p. 18.
- Dalén, Gustaf, Lidingön, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Lens and similar apparatus. No. 1,303,860; May 20; v. 262; p. 324.
- Dalén, Gustaf, Skärsåtra, Lidingön, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Means for opening and closing valves in certain determined intervals of time. No. 1,304,159; May 20; v. 262; p. 378.
- Dalén, Gustaf, Skärsåtra, Lidingön, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Storing mass for gas dissolved in liquid and producing the same. No. 1,304,160; May 20; v. 262; p. 378.
- Dalén, Gustaf, Stockholm, assignor to Agtiebolaget Keros, Sodertälje, Sweden. Manufacturing lighting-bodies. No. 1,311,324; July 29; v. 264; p. 741.
- Dalén, Gustaf, Lidingön, assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden. Incandescent gas-lamp. No. 1,315,817; Sept. 9; v. 266; p. 253.
- Dales, William R., Philadelphia, Pa. Hat-retaining device. No. 1,305,694; June 3; v. 263; p. 88.
- Dales, William R., Philadelphia, Pa. Hat-retaining device. No. 1,317,433; Sept. 30; v. 266; p. 656.
- Daley, Edward M., Haverhill, assignor of two-thirds to J. L. Perkins and E. J. Young, Bradford, Mass. Spring. No. 1,321,986; Nov. 18; v. 268; p. 421.
- Dalitz, Harry, assignor of one-half to J. C. Hipp, Cleveland, Ohio. Electrical terminal. No. 1,319,760; Oct. 28; v. 267; p. 510.
- Dall, Charles A. (See Ballou, Holden P., assignor.)
- Dallas, Duncan W., Chambers County, Ala. Mail-catcher. No. 1,310,065; July 15; v. 264; p. 445.
- Dalley, Charles J., Newark, N. J. Auxiliary water-tank. No. 1,300,702; Apr. 15; v. 261; p. 518.
- Dallman, Charles F., and F. Schoepke, Antigo, Wis. Unloading-skid. No. 1,298,905; Apr. 1; v. 261; p. 67.
- Dallmeyer, Thomas D., Pittsburgh, and G. G. Brown, Oakmont, assignors to Valley Forging Company, Verona, Pa. Press. No. 1,326,852; Dec. 30; v. 269; p. 842.
- Dallmeyer, Thomas D., Pittsburgh, G. G. Brown, and J. R. Schultz, Oakmont, Pa. Breaking rods or bars. No. 1,309,354; July 8; v. 264; p. 276.
- Dalluge, R. A. (See Graves, McDowell, assignor.)
- Dally, Charles T., West Orange, N. J. Valve for use with corrosive liquids. No. 1,311,954; Aug. 5; v. 265; p. 19.
- Dalman, John W., Chicago, Ill. Yoke for draft-rigging and making the same. No. 1,307,083; June 17; v. 263; p. 410.
- Dalman, John W., assignor to American Steel Foundries, Chicago, Ill. Brake-beam safety-hanger. No. 1,295,276; Feb. 25; v. 259; p. 624.
- Dalrymple, George E., Haverhill, Mass. Shoe-ornament-attaching device. No. 1,316,693; Sept. 23; v. 266; p. 481.
- Dalrymple, George E., assignor to Dalrymple-Pulsifer Co., Haverhill, Mass. Shoe ornament. No. 1,325,929; Dec. 23; v. 269; p. 631.
- Dalrymple-Pulsifer Co. (See Dalrymple, George E., assignor.)
- Dalton Adding Machine Company, The. (See Landsiedel, Harry, assignor.)
- Dalton Arms Corporation. (See Hammond, Grant, assignor.)
- Dalton, Gordon, Canterbury, England. Fountain-pen. No. 1,304,264; May 20; v. 262; p. 398.
- Dalton, John B., Pittsburgh, Pa. Packaging ice-cream. No. 1,313,793; Aug. 19; v. 265; p. 416.
- Dalton, Lamar. (See Daly and Dalton.)
- Dalton, Nelson W., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Landing-gear construction. No. 1,290,102; Jan. 7; v. 258; p. 21.
- Dalton, Nelson W., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Convertible control system. No. 1,296,773; Mar. 11; v. 260; p. 252.
- Dalton, Nelson W., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Magneto-cut-off switch. No. 1,296,774; Mar. 11; v. 260; p. 252.
- Dalton, Nelson W., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Aerofoil construction. No. 1,296,775; Mar. 11; v. 260; p. 252.
- Dalton, Nelson W., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane-wing construction. No. 1,310,942; July 22; v. 264; p. 637.
- Dalton, Nelson W., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Propeller-thrust register for aircraft. No. 1,316,281; Sept. 16; v. 266; p. 355.
- Dalton, Stephen T., Shelby, Ohio. Triplicate sales-book. No. 1,314,509; Sept. 2; v. 266; p. 6.
- Dalton, William. (See McKenna and Dalton.)
- Dalton, William, assignor to Washington Steel & Ordnance Company, Washington, D. C. Armor-piercing projectile. No. 1,301,822; Apr. 29; v. 261; p. 811.
- Dalwigk, Hermann, San Antonio, Tex. Wheel-tire. No. 1,315,471; Sept. 9; v. 266; p. 192.
- Daly, Cora M., et al., heirs-at-law. (See Daly, John M.)
- Daly, John J., Philadelphia, Pa. Water-closet. No. 1,294,421; Feb. 18; v. 259; p. 403.
- Daly, John M., deceased; C. M. Daly, R. J. Daly, and M. Daly, heirs-at-law, Chicago, Ill. Apparatus for storing and transporting vehicles. No. 1,324,105; Dec. 9; v. 269; p. 210.
- Daly, Marion, et al., heirs-at-law. (See Daly, John M.)
- Daly, Raymond E., Chicago, Ill., assignor to American Maize Products Company. Apparatus for crystallizing sugar. No. 1,312,308; Aug. 5; v. 265; p. 84.
- Daly, Raymond J., et al., heirs-at-law. (See Daly, John M.)
- Daly, Thomas J. M., and L. Dalton, Little Rock, Ark. Automatic thermostat. No. 1,321,287; Nov. 11; v. 268; p. 239.
- Daly, William L., Schenectady, N. Y. Ice-cream scraper. No. 1,316,428; Sept. 16; v. 266; p. 383.
- Dalzell, Charles B., assignor to D. H. Burrell & Company, Little Falls, N. Y. Milking-machine. No. 1,296,166; Mar. 4; v. 260; p. 81.
- Dalzell, Charles B., assignor to D. H. Burrell & Company, Little Falls, N. Y. Milking-machine. No. 1,296,167; Mar. 4; v. 260; p. 81.
- Dalzell, Charles B., assignor to D. H. Burrell & Co., Little Falls, N. Y. Centrifugal testing-machine. No. 1,321,288; Nov. 11; v. 268; p. 239.
- Dalziel, Harvey, London, England. Insuring the accurate registration of the plates for multicolor printing. No. 1,296,929; Mar. 11; v. 260; p. 288.
- Damalzin, Frederic J., Paris, France. Motor-vehicle for agricultural purposes. No. 1,325,277; Dec. 16; v. 269; p. 494.
- Daman, Herbert, Rochester, Pa. Casting glass-molds. No. 1,295,277; Feb. 25; v. 259; p. 624.
- Dambrowski, Stanislaw, Central Falls, R. I. Rail-tie. No. 1,295,859; Mar. 4; v. 260; p. 10.
- Dambruch, William H., Milwaukee, Wis. Turning cake-stand. No. 1,297,802; Mar. 18; v. 260; p. 505.
- Dame, George B., Brooklyn, assignor to C. D. Durkee & Company, Incorporated, New York, N. Y. Mooring-buoy. No. 1,320,604; Nov. 4; v. 268; p. 46.
- Damerell, Mark H., Worcester, Mass. Adjustable clamping device. No. 1,321,895; Nov. 18; v. 268; p. 404.
- Damm, Arvid G., Rönninge, Sweden. Apparatus for regulating automatically the cutting of holes in jacquard-cards. No. 1,293,356; Feb. 4; v. 259; p. 89.
- Dammann, Edward, St. Louis, Mo. Wind or water power. No. 1,313,621; Aug. 19; v. 265; p. 385.
- Damon, William H., Los Angeles, Calif. Furniture and automobile polish. No. 1,302,320; Apr. 29; v. 261; p. 905.
- Damón, William H., Los Angeles, Calif. Rubber-cushion wheel. No. 1,325,833; Dec. 23; v. 269; p. 614.
- Damrell, Ida M., et al. (See Barnes, Edwin B., assignor.)
- Dana Cotton Harvester Company. (See Skillins and Gabriel, assignors.)
- Dana, Frank L., Houston, Tex. Tunneling-machine. No. 1,326,480; Dec. 30; v. 269; p. 771.
- Dana, Jesse D. (See Goltra, Maffitt, Dana, and Erwin.)
- Dana Manufacturing Corporation. (See Bluhm, Joseph, assignor.)
- Dana, William M., and C. C. Palmer, Minneapolis, Minn.; said Palmer assignor to said Dana. Fire-alarm. No. 1,296,270; Mar. 4; v. 260; p. 104.
- Danckwardt, Paul, Denver, Colo. Apparatus for making gasoline from crude oil. No. 1,317,077; Sept. 23; v. 266; p. 552.
- Dandrow, Mary A., Ridgefield Park, N. J. Garbage-pail cover. No. 1,305,197; May 27; v. 262; p. 614.
- Dane, Christian T., Brookline, Mass. Curtain-stretcher. No. 1,314,574; Sept. 2; v. 266; p. 19.
- Dane, Francis W., Hamilton, Mass. System for controlling vehicles. No. 1,323,250; Dec. 2; v. 269; p. 5.
- Danforth, Matilda. (See Danforth, Oscar L., assignor.)
- Danforth, Oscar L., assignor to M. Danforth, San Diego, Calif. Window-lock. No. 1,311,052; July 22; v. 264; p. 657.
- Daniel, Albert. (See Swisher, William J., assignor.)
- Daniel, Arnold, Charlottenburg, Germany. Producing caramel. No. 1,316,019; Sept. 16; v. 266; p. 306.
- Daniel, George, and E. G. Lewis, Mabscott, W. Va. Lock. No. 1,300,931; Apr. 15; v. 261; p. 567.
- Daniel, John P., Coahoma, Miss. Planter. No. 1,290,103; Jan. 7; v. 258; p. 22.
- Daniel, Stev, Hazel Green, Wis. Baby walking-chair. No. 1,302,321; Apr. 29; v. 261; p. 905.
- Daniel, Ulysses S., Beaumont, Tex. Attachment for motor-vehicles. No. 1,312,956; Aug. 12; v. 265; p. 241.
- Daniel, Wilmer H., assignor to Waterloo Gasoline Engine Company, Waterloo, Iowa. Gear-shifting mechanism. No. 1,209,557; Apr. 8; v. 261; p. 242.
- Daniels, Edward T., assignor of one-half to E. Weldon, Townsend, Del. Tractor. No. 1,302,638; May 6; v. 262; p. 30.



## Alphabetical list of patentees—Continued.

- Daniels, John K., St. Paul, Minn. Foot-scraper. No. 1,298,300; Mar. 25; v. 260; p. 637.
- Daniels, Joseph, Camden, N. J. Ice-creeper. No. 1,326,648; Dec. 30; v. 269; p. 803.
- Daniels, Joseph J., Surbiton, England. Automatic safety train-control apparatus. No. 1,323,181; Nov. 25; v. 268; p. 693.
- Daniels, Louis, New York, N. Y. Coffee-strainer. No. 1,291,429; Jan. 14; v. 258; p. 362.
- Daniels, Thomas M., Redondo Beach, Calif. Beet-topping machine. No. 1,306,673; June 10; v. 263; p. 302.
- Danielson, Carl, Chicago, Ill. Horseshoe. No. 1,311,680; July 29; v. 264; p. 807.
- Danielson, Frank, Chicago, Ill. Universal clamping-fixture for internal-combustion engines. No. 1,312,617; Aug. 12; v. 265; p. 175.
- Danielsson, David, Västerås, Sweden. Thermic timing element. No. 1,316,429; Sept. 16; v. 266; p. 383.
- Daninburg, William J., New York, N. Y. Attachment for printing-presses. No. 1,321,365; Nov. 11; v. 268; p. 254.
- Danke, Arthur E., assignor of one-half to J. F. Stroebel, Neenah, Wis. Conveyer. No. 1,312,166; Aug. 5; v. 265; p. 59.
- Danks, Frank, Troy, N. Y. Process of treating garbage and production of carbonic-acid gas therefrom. No. 1,319,515; Oct. 21; v. 267; p. 440.
- Danks, James A. (See Wagner, Walter S., Assignor.)
- Danley, Robert J. M., Brooklyn, and L. A. Snyder, New York, N. Y. Folding-machine. No. 1,293,357; Feb. 4; v. 259; p. 89.
- Dann, James E., Brooklyn, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Finger-guard for cuff-presses. No. 1,321,603; Nov. 11; v. 268; p. 299.
- Danner, Edward, assignor to The Libbey Glass Company, Toledo, Ohio. Gage. No. 1,303,259; May 13; v. 262; p. 177.
- Danner, Edward, assignor to The Libbey Glass Company, Toledo, Ohio. Assorting-machine. No. 1,309,086; July 8; v. 264; p. 227.
- Danner, Emil C., Westmont borough, Pa. Rail-anchor and manufacture thereof. No. 1,307,084; June 17; v. 263; p. 411.
- Danner, Emil C., Westmont borough, Pa. Bundling. No. 1,321,092; Nov. 11; v. 268; p. 202.
- Danner, Emil C., Westmont borough, and A. Oswald, Conemaugh borough, Pa. Rail-anchor. No. 1,321,420; Nov. 11; v. 268; p. 265.
- Danner, Herbert, St. Paul, Minn. Carrier attachment for automobiles. No. 1,315,657; Sept. 9; v. 266; p. 224.
- Danner, Hugh C., Martinsburg, W. Va. Device for opening watchcases and other articles. No. 1,313,271; Aug. 19; v. 265; p. 319.
- Danner, Lewis E., Catasauqua, Pa. Wire-stretcher. No. 1,305,779; June 3; v. 263; p. 104.
- Danner, Theodore, Milton, Oreg. Door-securer. No. 1,316,223; Sept. 16; v. 266; p. 344.
- Dansberry, William H. H., North La Crosse, Wis. Automatic train-stop. No. 1,318,482; Oct. 14; v. 267; p. 218.
- Danziger, Adolphe. (See Rider, Thomas B., assignor.)
- Darby, Levi I., Newark, N. J. Collapsible rack. No. 1,297,548; Mar. 18; v. 260; p. 450.
- Dare, Melvin E., Muskegon, Mich. Aeroplane. No. 1,319,211; Oct. 21; v. 267; p. 383.
- Darker, Alfred H., Blackheath, assignor to J. Stone & Company, Limited, Deptford, England. Dynamo-electric machine and method of and apparatus for controlling the output thereof. No. 1,313,272; Aug. 19; v. 265; p. 319.
- Darley, John W., et al., administrators. (See Blumberg and Butkus.)
- Darley, John W., Jr., Baltimore, Md. Sostenuto musical instrument. No. 1,318,977; Oct. 14; v. 267; p. 313.
- Darley, William S. (See Niswonger, William H., assignor.)
- Darling, Alice O., Lebanon, N. H. Means for overcoming insomnia. No. 1,296,930; Mar. 11; v. 260; p. 288.
- Darling, Elton R., Montclair, N. J., assignor to Essex Laboratories, Inc. Making titanium oxid. No. 1,315,011; Sept. 2; v. 266; p. 99.
- Darling, Elton R., Montclair, N. J., assignor to Ellis-Foster Company. Production of busmuth. No. 1,318,335; Oct. 7; v. 267; p. 129.
- Darling, Lewis A., Boston, Mass., assignor to Electric Service Supplies Company, Philadelphia, Pa. Power-generator. No. 1,311,878; Aug. 5; v. 265; p. 5.
- Darling, Roy A., Evanston, Ill. Carrier-shell. No. 1,309,982; July 15; v. 264; p. 430.
- Darling, Willis F., Derry, N. H. Fishing-tackle device. No. 1,296,370; Mar. 4; v. 260; p. 125.
- Darlington, Albert E., Columbia, S. C. Picker-stick check for looms. No. 1,311,053; July 22; v. 264; p. 657.
- Darnall, John C., Cincinnati, Ohio. Trolley-wheel. No. 1,300,822; Apr. 15; v. 261; p. 544.
- Darnall, John C., Cincinnati, Ohio. Rack for sterilizers and the like. No. 1,309,117; July 8; v. 264; p. 233.
- Darne, Pierre. (See Darne, Regis and P.)
- Darne, Regis and P., St.-Etienne, France. Automatic firearm or machine-gun. No. 1,323,025; Nov. 25; v. 268; p. 668.
- Darr, Edwin E., Washington, D. C. Line-indicator and signal for type-writing machines. No. 1,304,458; May 20; v. 262; p. 436.
- Darr, George E., Ontario, Oreg. Hook. No. 1,311,499; July 29; v. 264; p. 774.
- Darrach, Charles G., assignor to G. Darrach, Philadelphia, Pa. Process and apparatus for reduction of organic waste material. No. 1,325,352; Dec. 16; v. 269; p. 507.
- Darrach, Grace. (See Darrach, Charles G., assignor.)
- Darragh, Anna M. (See Low, Arthur B., assignor.)
- Darrah, William A. (See Bolus and Darrah.)
- Darrin, Marc. (See Sperr and Darrin.)
- Darrin, Marc, Wilkinsburg, assignor to H. Koppers Company, Pittsburgh, Pa. Paint or varnish and paint or varnish ingredient. No. 1,296,776; Mar. 11; v. 260; p. 252.
- Darrin, Marc, Wilkinsburg, assignor to H. Koppers Company, Pittsburgh, Pa. Resin and manufacturing the same from crude solvent naphtha. No. 1,297,328; Mar. 18; v. 260; p. 405.
- Darrin, Marc, Wilkinsburg, assignor to The Koppers Company, Pittsburgh, Pa. Paint or varnish and making the same. No. 1,315,658; Sept. 9; v. 266; p. 225.
- Darrin, Marc, Wilkinsburg, assignor to The Koppers Company, Pittsburgh, Pa. Resin. No. 1,328,579; Dec. 30; v. 269; p. 791.
- Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing apparatus. No. 1,317,661; Sept. 30; v. 266; p. 700.
- Darrow, George E., San Francisco, Calif. Ventilating-mask. No. 1,323,217; Nov. 25; v. 268; p. 705.
- Darst, Fred N., Lovilia, Iowa. Wagon-jack. No. 1,300,129; Apr. 8; v. 261; p. 370.
- Darst, James C., Portsmouth, Va. Safety-pocket. No. 1,321,289; Nov. 11; v. 268; p. 239.
- Darst, Moses E., Canton, Ohio. Vehicle-wheel. No. 1,320,605; Nov. 4; v. 268; p. 46.
- Darts, William E., Hartford, Conn. Permutation-lock. No. 1,319,140; Oct. 21; v. 267; p. 368.
- Dasen, Paul H., assignor of one-half to C. Ottosen, Ottosen, Iowa. Steering-rod-controlling device. No. 1,313,216; Aug. 12; v. 265; p. 292.
- Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Car-underframe. No. 1,290,104; Jan. 7; v. 258; p. 22.
- Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,300,350; Apr. 15; v. 261; p. 443.
- Dath, Charles E., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,300,351; Apr. 15; v. 261; p. 444.
- Datta, Rasik L., and P. S. Varma, Calcutta, India. Producing trinitro compound from phenol. No. 1,292,266; Jan. 21; v. 258; p. 596.
- Datta, Rasiklal, Calcutta, India. Producing chlorin. No. 1,310,943; July 22; v. 264; p. 637.
- Dau, William A., Detroit, Mich. Traffic-signal. No. 1,301,396; Apr. 22; v. 261; p. 699.
- Daubin, Freeland A. (See Bookwalter and Daubin.)
- Daudelin, Jean B., Fall River, Mass. Loom-shuttle. No. 1,309,188; July 8; v. 264; p. 245.
- Dauger, Alfred B., Sacramento, Calif. Housing-machine for woodworking. No. 1,306,252; June 10; v. 263; p. 225.
- Daugherty, Alvin A., assignor, by mesne assignments, to The National Oil Company, New York, N. Y. Ship construction. No. 1,319,462; Oct. 21; v. 267; p. 431.
- Daugherty, Emmett E., Saline, Mo. Fence-post. No. 1,302,772; May 6; v. 262; p. 55.
- Daum, Albert F., Pittsburgh, Pa. Refillable fuse. No. 1,326,481; Dec. 30; v. 269; p. 771.
- Daum, Leonhard, Brooklyn, N. Y. Bottle filling and corking machine. No. 1,307,898; June 24; v. 263; p. 591.
- Daum, William T., Oak Park, Ill. Automobile-trailer. No. 1,316,358; Sept. 16; v. 266; p. 369.
- Dausmann, Charles, Brooklyn, N. Y. Grinding and polishing machine. No. 1,303,861; May 20; v. 262; p. 324.
- Dautel, Gustave, Angers, France. Cover or lid for cooking-pots, saucepans, and other similar utensils. No. 1,310,981; July 22; v. 264; p. 644.
- Davenport, Edward S., West Naticoke, Pa. Shoe-sole protector. No. 1,316,020; Sept. 16; v. 266; p. 306.
- Davenport, Eugene F., Melrose, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-knife. No. 1,322,094; Nov. 18; v. 268; p. 440.
- Davenport, George E., Camden, N. J. Hydraulic press for sound-records. No. 1,290,105; Jan. 7; v. 258; p. 22.
- Davenport, Harmon F., assignor to The Brunswick-Balke-Collider Company, Chicago, Ill. Locking cue-rack. No. 1,291,430; Jan. 14; v. 258; p. 362.
- Davenport, Herman A., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pressing-form. No. 1,310,005; July 15; v. 264; p. 434.
- Davenport, James E., assignor to Union Technical Corporation, New York, N. Y. Rotary engine-valve. No. 1,305,695; June 3; v. 263; p. 88.
- Davenport, John, Boston, Mass. Balanced process of extracting and desiccating sulfur dioxide from solution. No. 1,317,688; Oct. 7; v. 267; p. 6.
- Davenport Locomotive Works. (See Barger, Lorin W., assignor.)



- Davenport Machine & Foundry Company. (See Whitaker, Edward W., assignor.)
- Davenport Machine & Foundry Company. (See Ziebarth and Magnuson, assignors.)
- Davenport, Ransom W. (See Schall and Davenport.)
- Davey, Ernest N., Lachine, Quebec, Canada. Tool-holder. No. 1,319,950; Oct. 28; v. 267; p. 546.
- Davey, John F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. No. 1,302,516; May 6; v. 262; p. 7.
- Davey, Wheeler P., Schenectady, N. Y., assignor to General Electric Company. Non-inflammable japan and making same. No. 1,294,422; Feb. 18; v. 259; p. 404.
- Davey, Wheeler P., Schenectady, N. Y., assignor to General Electric Company. Making and applying japan. No. 1,294,627; Feb. 18; v. 259; p. 451.
- David Bridge and Company Limited. (See Bridge and Bradshaw, assignors.)
- David, Bruce W., assignor to The Lincoln Electric Company, Cleveland, Ohio. Generator. No. 1,295,278; Feb. 25; v. 259; p. 624.
- David, John J. (See Pride, Christopher W., assignor.)
- David Lupton's Sons Company. (See Claus, Carl, assignor.)
- David, Virgil E., Omaha, Nebr. Water-heating system. No. 1,298,301; Mar. 25; v. 260; p. 637.
- Daids, Ernest M., Tropic, and L. Lindsay, Los Angeles, Calif. Vacuum air-separator. No. 1,309,879; July 15; v. 264; p. 411.
- Davidson, Adam R., Bedford, Ind. Nail-brush. No. 1,309,510; July 8; v. 264; p. 305.
- Davidson, Arthur C., Chicago, Ill., assignor, by mesne assignments, to Waugh Draft Gear Company. Buffing mechanism for cars. No. 1,301,397; Apr. 22; v. 261; p. 699.
- Davidson, Arthur C., assignor to Waugh Draft Gear Company, Chicago, Ill. Platform buffing-gear. No. 1,312,167; Aug. 5; v. 265; p. 59.
- Davidson, Arthur C., Brooklyn, assignor to Pneumatic Universal Tool Company, Incorporated, New York, N. Y. Percussion-tool. No. 1,319,696; Oct. 28; v. 267; p. 497.
- Davidson, Augustus A. (See McCully and Davidson.)
- Davidson, Carl G., et al. (See Gentile, John B., assignor.)
- Davidson, Edgar. (See Ruddle and Davidson.)
- Davidson, Elias E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Antifriction feed-chute for tube-machines. No. 1,305,445; June 3; v. 263; p. 41.
- Davidson, Frank B., assignor to Howe and Davidson Company, Marseilles, Ill. Partition member for containers. No. 1,307,621; June 24; v. 263; p. 541.
- Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Carton. No. 1,311,325; July 29; v. 264; p. 741.
- Davidson, Frederick L. (See Snape, Richard H., assignor.)
- Davidson, George, and H. C. Doctor, Fort Wayne, Ind. Knitted fabric body. No. 1,305,446; June 3; v. 263; p. 41.
- Davidson, Harry O., Cleveland, Ohio. Machine for making metal plates. No. 1,301,545; Apr. 22; v. 261; p. 726.
- Davidson, Harry O., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete-form. No. 1,304,945; May 27; v. 262; p. 566.
- Davidson, Harry O., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete-form. No. 1,319,048; Oct. 21; v. 267; p. 352.
- Davidson, Harry O., and O. Hillman, assignors to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete-form. No. 1,324,881; Dec. 16; v. 269; p. 419.
- Davidson, Jacob A., Elk Lake, Ontario, Canada. Rifle-stock. No. 1,315,215; Sept. 9; v. 266; p. 145.
- Davidson, James, Toronto, Ontario, Canada. Ease-up motion for the tension-fallers of spinning-mules. No. 1,304,664; May 27; v. 262; p. 514.
- Davidson, James A., and J. R. Handy, Loveland, Colo. Four-wheel floor-jack for automobiles. No. 1,321,604; Nov. 11; v. 268; p. 299.
- Davidson, James E., and C. Holland, Butte, Mont. Electrically-operated valve. No. 1,307,899; June 24; v. 263; p. 591.
- Davidson, James F., Duncan, Okla. Lock for automobile steering-wheels. No. 1,290,106; Jan. 7; v. 258; p. 22.
- Davidson, James S., Wheeling, W. Va. Dental laboratory instrument. No. 1,293,358; Feb. 4; v. 259; p. 89.
- Davidson, Jesse H., Colorado Springs, Colo. Wrench. No. 1,295,707; Feb. 25; v. 259; p. 724.
- Davidson, John, Manchester, England. Internal-combustion engine. No. 1,317,355; Sept. 30; v. 266; p. 641.
- Davidson, John, Manchester, England. Internal-combustion engine. No. 1,317,356; Sept. 30; v. 266; p. 641.
- Davidson, John C., Columbus, Ohio. Aeroplane-wing. No. 1,293,359; Feb. 4; v. 259; p. 90.
- Davidson, John C., Hay Springs, Nebr. Steering-wheel attachment. No. 1,323,680; Dec. 2; v. 269; p. 85.
- Davidson, John M., Xenia, Ohio. Attachment for lawn-mowers. No. 1,312,618; Aug. 12; v. 265; p. 176.
- Davidson, John R., assignor of one-half to B. E. McElheney, Monticello, Ga. Cotton-chopper. No. 1,314,307; Aug. 26; v. 265; p. 549.
- Davidson, Joseph, Greenville, S. C., assignor of one-half to American Machine & Manufacturing Company. Automatic valve for hydraulic machinery. No. 1,300,703; Apr. 15; v. 261; p. 518.
- Davidson, Joseph A., Indianapolis, Ind. Micrometer-calipers. No. 1,290,921; Jan. 14; v. 258; p. 244.
- Davidson, Lyman C., Chicago, Ill. Adjustable retainer for cigars in boxes. No. 1,304,266; May 20; v. 262; p. 398.
- Davidson, Robert J., St. Louis, Mo. Reproducing destructible objects by casting. No. 1,325,004; Dec. 16; v. 269; p. 442.
- Davidson, Samuel C., Belfast, Ireland. Explosive shell. No. 1,292,390; Jan. 21; v. 258; p. 624.
- Davidson, Samuel C., Belfast, Ireland. Projection of explosive shells, bombs, or grenades. No. 1,299,136; Apr. 1; v. 261; p. 118.
- Davidson, Samuel C., Belfast, Ireland. Flare-light shell. No. 1,306,407; June 10; v. 263; p. 253.
- Davidson, Thomas M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Extruder. No. 1,324,145; Dec. 9; v. 269; p. 218.
- Davidson, William B., Huddersfield, England. Gas and liquid contact apparatus. No. 1,308,338; July 1; v. 264; p. 60.
- Davidson, William M., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Balancing device. No. 1,314,575; Sept. 2; v. 266; p. 19.
- Davidson, William M., assignor to Williams Patent Crusher & Pulverizing Co., St. Louis, Mo. Hopper dust-arrester. No. 1,322,546; Nov. 25; v. 268; p. 578.
- Davies, David, Llanelly, Wales. Apparatus for separating and feeding sheets to cold rolls, pickling, tinning, galvanizing, and like machines. No. 1,316,430; Sept. 16; v. 266; p. 383.
- Davies, Evan W., Glamorganshire, Wales. Apparatus for manipulating metal ingots in rolling-mills. No. 1,312,104; Aug. 5; v. 265; p. 48.
- Davies, Evan W., Dowlais, Wales. Apparatus for manipulating work-pieces in rolling-mills. No. 1,325,080; Dec. 16; v. 269; p. 457.
- Davies, Francis, Providence, R. I., assignor to Nathan Manufacturing Company, Flushing, N. Y. Percussion-fuse for shells or projectiles. No. 1,302,902; May 6; v. 262; p. 81.
- Davies, Gwyn O. O., Cle Elum, Wash. Circuit-breaker. No. 1,310,562; July 22; v. 264; p. 567.
- Davies, James A., Swissvale, assignor, by mesne assignments, to Westinghouse Gear and Dynamometer Company, East Pittsburgh, Pa. Double reduction-gearing. No. 1,293,047; Feb. 4; v. 259; p. 17.
- Davies, James A., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control mechanism for compound turbines. No. 1,302,639; May 6; v. 262; p. 30.
- Davies, John, Liverpool, and W. H. Jones, Wallasey, England. Manufacture of heat-insulating chambers, walls, floors, and ceilings. No. 1,304,267; May 20; v. 262; p. 399.
- Davies, Llewelyn J., Medford, Ore. Valve-spring lifter. No. 1,311,805; July 29; v. 264; p. 830.
- Davies, Thomas W., San Jose, Calif. Invalid-table. No. 1,310,284; July 15; v. 264; p. 484.
- Davies, Walter L. (See Soames and Davies.)
- Davies, William R. (See Thomas and Davies.)
- Davies, James A., assignor to American Steam Conveyor Corporation, Chicago, Ill. Ash-conveyor system. No. 1,293,360; Feb. 4; v. 259; p. 90.
- Davin, Scraphin V., Walla Walla, Wash. Disk barrow. No. 1,324,882; Dec. 16; v. 269; p. 420.
- Davino, Domenico M., New York, N. Y. Window construction. No. 1,290,719; Jan. 7; v. 258; p. 171.
- Davis, Abner F. H., Oakland, Calif. Electric switch. No. 1,315,182; Sept. 2; v. 266; p. 129.
- Davis, Alfred J., Minneapolis, Minn. Liquid-tempering device. No. 1,298,906; Apr. 1; v. 261; p. 67.
- Davis, Algie P., assignor of one-third to W. S. Davis, White Rock, Colo. Wire-holder. No. 1,313,795; Aug. 19; v. 265; p. 417.
- Davis, Anthony E., Philadelphia, Pa. Pavement and expansion-joint therefor. No. 1,298,018; Mar. 25; v. 260; p. 576.
- Davis, Archibald C., Newark, Ohio. Sanitary apron. No. 1,311,759; July 29; v. 264; p. 822.
- Davis, Augustine, Jr., Cincinnati, Ohio. Oil wagon-tank. No. 1,311,155; July 29; v. 264; p. 709.
- Davis, Bemiss N., New Orleans, La. Measuring instrument. No. 1,298,302; Mar. 25; v. 260; p. 637.
- Davis, Bemiss N., New Orleans, La. Car-unloader. No. 1,317,484; Sept. 30; v. 266; p. 666.
- Davis, Benjamin W., Chicago, Ill. Receptacle for liquids. No. 1,326,853; Dec. 30; v. 269; p. 842.
- Davis, Benjamin W., deceased, Evanston, Wyo.; J. J. Davis, administrator. Flag-support. No. 1,300,352; Apr. 15; v. 261; p. 444.
- Davis, Bertha B., executrix. (See Davis, Charles H.)
- Davis-Bourneville Company. (See Bird and Macurer, assignors.)



## Alphabetical list of patentees—Continued.

- Davis-Bournonville Company. (See Bucknam, Worthy C., assignor.)
- Davis-Bournonville Company. (See Cave, Henry, assignor.)
- Davis, Britton, Congers, N. Y. Cigar holder and protector. No. 1,320,037; Oct. 28; v. 267; p. 562.
- Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Sweep-rake. No. 1,290,922; Jan. 14; v. 258; p. 244.
- Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Fertilizer-distributor. No. 1,315,818; Sept. 9; v. 266; p. 254.
- Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Hay-loader. No. 1,315,819; Sept. 9; v. 266; p. 254.
- Davis, Carl R., Le Roy, Kans. Coat and article holder for theater-seats. No. 1,298,181; Mar. 25; v. 260; p. 611.
- Davis, Charles B., New York, N. Y. Treating pearl buttons or blanks. No. 1,312,723; Aug. 12; v. 265; p. 195.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Driving-chain for mining-machines. No. 1,308,843; July 8; v. 264; p. 181.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,321,290; Nov. 11; v. 268; p. 240.
- Davis, Charles E., assignor to F. E. Miller, New York, N. Y. Surgical snare. No. 1,310,982; July 22; v. 264; p. 644.
- Davis, Charles H., Reynolds, N. D. Hay-press. No. 1,297,450; Mar. 18; v. 260; p. 429.
- Davis, Charles H., deceased, Worcester; B. B. Davis, executrix, Boston, Mass. Dental tool. No. 1,294,423; Feb. 18; v. 259; p. 404.
- Davis, Charles H., deceased, Worcester, Mass.; B. B. Davis, executrix. Dental tool. No. 1,299,137; Apr. 1; v. 261; p. 118.
- Davis, Charles W., Edgeworth, Pa., and D. M. Simons, New York, N. Y., assignors to Standard Underground Cable Company, Pittsburgh, Pa. Manufacturing insulation. No. 1,323,026; Nov. 25; v. 268; p. 668.
- Davis, Clivia, New York, N. Y. Sanitary toilet-paper holder and deliverer. No. 1,297,110; Mar. 11; v. 260; p. 328.
- Davis, Clarence M., Cape May, N. J. Velocipede. No. 1,296,931; Mar. 11; v. 260; p. 288.
- Davis, Cleland U. S. Navy. War vessel. No. 1,295,708; Feb. 25; v. 259; p. 42.
- Davis, Cleland U. S. Navy. Aerial artillery. No. 1,311,791; July 29; v. 264; p. 628.
- Davis, Cloyd, Mineola, N. Y. Potato-handling machine. No. 1,301,109; Apr. 22; v. 261; p. 641.
- Davis, Clyde, and C. E. Harding, Sioux Falls, S. D. Bed-tray and dressing-table. No. 1,298,672; Apr. 1; v. 261; p. 11.
- Davis, Clyde W. (See Cummings, Benjamin F., assignor.)
- Davis, Cord M., Oakwood, Ill. Device for tying seed-corn. No. 1,290,923; Jan. 14; v. 258; p. 245.
- Davis, Cortland W., assignor to The Mantle Lamp Company of America, Chicago, Ill. Burner. No. 1,290,107; Jan. 7; v. 258; p. 23.
- Davis, David, Britton, S. D. Window-protector. No. 1,314,510; Sept. 2; v. 266; p. 6.
- Davis, David C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor-converter. No. 1,300,251; Apr. 15; v. 261; p. 422.
- Davis, David L., South Norwalk, assignor to The American Hat Mfg. Co., Inc., Norwalk, Conn. Hat. No. 1,304,268; May 20; v. 262; p. 399.
- Davis, De Leon, Chicago, Ill. Pneumatic tire. No. 1,319,697; Oct. 28; v. 267; p. 498.
- Davis, Decatur W., Louisville, Ky. Container. No. 1,306,408; June 10; v. 263; p. 253.
- Davis, Donald C. (See Richards and Davis.)
- Davis, Edgar B., Columbus, Kans. Land-drainage system. No. 1,323,027; Nov. 25; v. 268; p. 668.
- Davis, Edward E., assignor to Security Auto Lock Company, Chicago, Ill. Locking device for automobiles. No. 1,321,190; Nov. 11; v. 268; p. 220.
- Davis, Edward G., Madison, Ind. Attachment for shoe-stitching machines. No. 1,290,924; Jan. 14; v. 258; p. 245.
- Davis, Edward W., Duluth, Minn. Magnetic ore-washer. No. 1,317,557; Sept. 30; v. 266; p. 680.
- Davis, Effe G. G., Salt Lake City, Utah. Paper doll. No. 1,305,071; May 27; v. 262; p. 590.
- Davis, Egbert H., assignor to Beals & Selkirk Trunk Company, Wyandotte, Mich. Wardrobe-trunk. No. 1,319,761; Oct. 28; v. 267; p. 510.
- Davis, Ernest W., Chicago, Ill., assignor to The Universal Camera Co. Adapter. No. 1,294,333; Feb. 11; v. 259; p. 348.
- Davis, Francis M., Chicago, Ill. Storage structure. No. 1,303,862; May 20; v. 262; p. 324.
- Davis, Francis M., Timpson, Tex. Shock-absorber. No. 1,318,361; Oct. 14; v. 267; p. 195.
- Davis, Frank B., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,308,227; July 1; v. 264; p. 40.
- Davis, Frank E., and W. W. Cameron, assignors to La Crosse Plow Company, La Crosse, Wis. Plow. No. 1,308,228; July 1; v. 264; p. 41.
- Davis, Frank G. (See Motter and Davis.)
- Davis, Frank J., San Francisco, Calif. Attachment for hydraulic systems. No. 1,306,582; June 10; v. 263; p. 283.
- Davis, Frank J., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Take-up device for engine-room telegraphs. No. 1,307,727; June 24; v. 263; p. 560.
- Davis, Fred M., assignor to Pullman Couch Company, Chicago, Ill. Convertible furniture. No. 1,295,443; Feb. 25; v. 259; p. 662.
- Davis, Frederick C., St. Joseph, Mo. Separable scarf-pin. No. 1,302,773; May 6; v. 262; p. 55.
- Davis, George F., Montreal, Quebec, Canada. Cutting or blanking die. No. 1,321,896; Nov. 18; v. 268; p. 405.
- Davis, George G., Burke, Idaho. Bottle-closure. No. 1,294,057; Feb. 11; v. 259; p. 283.
- Davis, George H., Llewellyn Park, N. J. Music-roll. No. 1,294,628; Feb. 18; v. 259; p. 452.
- Davis, George H., West Orange, N. J. Electric perforating and recording machine. No. 1,303,863; May 20; v. 262; p. 324.
- Davis, George H., West Orange, N. J. Perforated roll for musical instruments. No. 1,312,520; Aug. 12; v. 265; p. 155.
- Davis, George S., Kogarah, New South Wales, Australia. Railway stock-truck. No. 1,311,326; July 29; v. 264; p. 741.
- Davis, Harold S. and M. D., Pittsburgh, Pa. Apparatus for the estimation of vapor-pressures. No. 1,318,362; Oct. 14; v. 267; p. 195.
- Davis, Harold S., and S. D. Semenow, assignors to The Koppers Company, Pittsburgh, Pa. Purification of liquids. No. 1,323,251; Dec. 2; v. 269; p. 6.
- Davis, Harry, Chicago, Ill. Vertical swinging door. No. 1,324,106; Dec. 9; v. 269; p. 210.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,290,108; Jan. 7; v. 258; p. 23.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Terry-warp let-off. No. 1,322,671; Nov. 25; v. 268; p. 602.
- Davis, Harry L., Greenville, Me. Moccasin. No. 1,323,845; Dec. 2; v. 269; p. 117.
- Davis, Harry O., Ipswich, assignor to Spray Engineering Company, Boston, Mass. Means for and method of applying coating. No. 1,311,760; July 29; v. 264; p. 822.
- Davis, Harry P., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hand-grenade. No. 1,303,260; May 13; v. 262; p. 177.
- Davis, Harry S., Indianapolis, Ind. Window-frame. No. 1,316,224; Sept. 16; v. 266; p. 344.
- Davis, Harvey N., Cambridge, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 1,297,803; Mar. 18; v. 260; p. 505.
- Davis, Henry J., Waynesboro, Ga. Bottle-opener. No. 1,293,361; Feb. 4; v. 259; p. 90.
- Davis, Henry J., Waynesboro, Ga. Vending-machine. No. 1,295,971; Mar. 4; v. 260; p. 35.
- Davis, Henry P., New York, N. Y. Window-frame. No. 1,313,675; Aug. 19; v. 265; p. 394.
- Davis, Herman S., Pittsburgh, Pa. Genealogical chart. No. 1,297,663; Mar. 18; v. 260; p. 474.
- Davis, Howard C. (See Row and Davis.)
- Davis, Hugh, assignor to Eastman Kodak Company, Rochester, N. Y. Enlarging-camera. No. 1,297,329; Mar. 18; v. 260; p. 405.
- Davis, Hurley H., Kirkland, Wash. Baking-pan. No. 1,307,962; June 24; v. 263; p. 604.
- Davis, James, Gananoque, Ontario, Canada. Ship locating and raising device. No. 1,325,497; Dec. 16; v. 269; p. 533.
- Davis, James J., administrator. (See Davis, Benjamin W.)
- Davis, James K., Chester, N. J. Extension-step. No. 1,315,933; Sept. 9; v. 266; p. 276.
- Davis, James M., Dallas, Tex. Distant-control-switch socket for electric lights, &c. No. 1,303,464; May 13; v. 262; p. 213.
- Davis, Jesse W., Phoenix, Ariz. Cotton-distributor. No. 1,316,282; Sept. 16; v. 266; p. 355.
- Davis, John A., Boston, Mass. Turn-table for talking-machines. No. 1,298,019; Mar. 25; v. 260; p. 576.
- Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Co., West Springfield, Mass. Quantity-stop. No. 1,291,774; Jan. 21; v. 258; p. 474.
- Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Dispensing apparatus for oils and the like. No. 1,302,014; Apr. 29; v. 261; p. 848.
- Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Measuring-pump. No. 1,302,640; May 6; v. 262; p. 30.
- Davis, John O., Cushing, Okla. Railway-tie. No. 1,312,020; Aug. 5; v. 265; p. 32.
- Davis, John W. F., assignor to The Price Candy Co., Inc., Spartanburg, S. C. Confectioner's table. No. 1,291,431; Jan. 14; v. 258; p. 362.
- Davis, Joseph D., Washington, D. C. Concentrating nitric acid and apparatus therefor. No. 1,314,485; Aug. 26; v. 265; p. 582.



- Davis, Joseph D., Washington, D. C. Oxidizing phosphin and apparatus therefor. No. 1,325,145; Dec. 16; v. 269; p. 469.
- Davis, Joseph L. (See Eaton and Davis.)
- Davis, Joseph L., deceased; M. S. Davis, administratrix, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,300,589; Apr. 15; v. 261; p. 494.
- Davis, Joseph L., deceased, M. S. Davis, administratrix, and G. M. Eaton, Pittsburgh, Pa.; said inventors assignors to Westinghouse Electric and Manufacturing Company. Locomotive gathering-reel. No. 1,326,326; Dec. 30; v. 269; p. 742.
- Davis, Joseph W., San Francisco, Calif. Pocket-case. No. 1,317,689; Oct. 7; v. 267; p. 6.
- Davis, Luckey C., Boley, Okla. Gun and projectile therefor. No. 1,304,857; May 27; v. 262; p. 550.
- Davis, Luther L., Kingsville, assignor of one-half to G. L. Spivey, Corpus Christi, Tex. Journal-box. No. 1,297,111; Mar. 11; v. 260; p. 328.
- Davis, Lyman H., Louisville, Ky. Button-fastener. No. 1,291,432; Jan. 14; v. 258; p. 362.
- Davis, Lyman H., Louisville, Ky. Detachable shirt-button. No. 1,305,072; May 27; v. 262; p. 590.
- Davis Machine Tool Co. (See Plantinga, Peter, assignor.)
- Davis, Mack H., assignor of one-half to J. W. Noe, Finis, Tex. Fruit-cutting implement. No. 1,313,273; Aug. 19; v. 265; p. 319.
- Davis, Marion A., Sherman, Tex. Automobile-windlass. No. 1,321,366; Nov. 11; v. 268; p. 254.
- Davis, Mary D. (See Davis, Harold and M. D.)
- Davis, Merrill, Detroit, Mich. Wheel-finishing machine. No. 1,304,547; May 27; v. 262; p. 492.
- Davis, Merrill, Detroit, Mich. Internal-combustion engine. No. 1,307,186; June 17; v. 263; p. 428.
- Davis, Meyer, Chicago, Ill. Talking-machine cabinet. No. 1,290,720; Jan. 7; v. 258; p. 172.
- Davis, Micaiah R., Kemp, Okla. Cane-stripping machine. No. 1,302,903; May 6; v. 262; p. 81.
- Davis, Michael J., Brooklyn, N. Y. Garment-supporter. No. 1,292,719; Jan. 28; v. 258; p. 726.
- Davis, Myra S., administratrix. (See Davis, Joseph L.)
- Davis, Orry S., Zanesville, Ohio. Card or ticket holder for receptacles. No. 1,304,031; May 20; v. 262; p. 355.
- Davis, Otis L., Iowa City, Iowa, assignor to The D and D Auto Lock Co., Chicago, Ill. Electric switch. No. 1,311,263; July 29; v. 264; p. 729.
- Davis, Ralph E., assignor to Advance-Rumely Company, Laporte, Ind. Adjustable front axle for tractors. No. 1,317,964; Oct. 7; v. 267; p. 57.
- Davis, Robert E., Oak Park, Ill. Dry-cooling apparatus. No. 1,293,721; Feb. 11; v. 259; p. 204.
- Davis, Robert V., Washington, D. C. Trousers-press. No. 1,309,189; July 8; v. 264; p. 246.
- Davis, Robert W., Hiltonia, N. J. Ship construction. No. 1,310,650; July 22; v. 264; p. 583.
- Davis, Robert W., Jr., Jenkintown, Pa. Manufacture of alkali-earth nitrates and hydrogen sulfid. No. 1,321,013; Nov. 4; v. 268; p. 124.
- Davis, Royall O. E., and H. Bryan, Washington, D. C. Recovery of ammonia. No. 1,319,663; Oct. 21; v. 267; p. 469.
- Davis, Samuel H. (See Boyle, Homer L., assignor.)
- Davis, Samuel R. (See Banks, Charles E., assignor.)
- Davis, Sherwin B. (See Greenough, Davis, and Kragtorp.)
- Davis, Solomon. (See Price and Davis.)
- Davis, Sylvanus E., Alfred, assignor of one-half to G. W. Freckleton, Rochester, N. Y. Farm-tractor. No. 1,321,093; Nov. 11; v. 268; p. 202.
- Davis, Thomas. (See Eldison, Davis, and Crouse.)
- Davis, Thomas, Detroit, Mich., assignor to The John Ford Starter Company. Pneumatic starter for automobiles. No. 1,294,058; Feb. 11; v. 259; p. 284.
- Davis, Thomas, Detroit, Mich., assignor to The John Ford Starter Company, Baltimore, Md. Starter system for automobiles. No. 1,320,676; Nov. 4; v. 268; p. 59.
- Davis, Thomas A., Medora, N. D. Train-order holder. No. 1,305,994; v. June 10; v. 263; p. 174.
- Davis, Thomas C., Uhrichsville, Ohio. Corn-planter. No. 1,294,629; Feb. 18; v. 259; p. 452.
- Davis, Tom. (See Williams, David J., assignor.)
- Davis, Walter F. (See Driscoll and Davis.)
- Davis, Walter V., Mount Vernon, N. Y. Automobile-window. No. 1,294,879; Feb. 18; v. 259; p. 511.
- Davis, Wilbur M. (See Rockwell and Davis.)
- Davis, William C., Melbourne, Victoria, Australia. Wall construction. No. 1,302,322; Apr. 29; v. 261; p. 905.
- Davis, William H., Bronxville, and F. E. Joss, Brooklyn, N. Y., assignors to Lektophone Corporation. Phonograph transmission-rod. No. 1,312,957; Aug. 12; v. 265; p. 241.
- Davis, William H., Bronxville, and F. E. Joss, Brooklyn, N. Y., assignors to Lektophone Corporation. Phonograph transmission. No. 1,312,958; Aug. 12; v. 265; p. 241.
- Davis, William H., Bronxville, and F. E. Joss, Brooklyn, N. Y., assignors to Lektophone Corporation. Tone-control device for talking-machines. No. 1,316,536; Sept. 16; v. 266; p. 404.
- Davis, William H., Bronxville, and F. E. Joss, Brooklyn, N. Y., assignors to Lektophone Corporation. Tone-control device for talking-machines. No. 1,316,537; Sept. 16; v. 266; p. 404.
- Davis, William I., assignor of one-half to E. A. Vogel, Little Rock, Ark. Flying-machine. No. 1,296,631; Mar. 11; v. 260; p. 218.
- Davis, William J. (See Hughes and Davis.)
- Davis, William J., Chicago, Ill. Holder. No. 1,303,864; May 20; v. 262; p. 325.
- Davis, William J., Chicago, Ill. Temperature-changing apparatus for liquids. No. 1,307,728; June 24; v. 263; p. 560.
- Davis, William R., et al. (See Bailey, Anna D., assignor.)
- Davis, William V., Savannah, Ga. Coupon-form. No. 1,315,472; Sept. 9; v. 266; p. 193.
- Davis, Winthrop S. (See Davis, Algie P., assignor.)
- Davison, Gregory C. (See Spear and Davison.)
- Davison, Gregory C., Groton, Conn. Delayed-action fuse. No. 1,311,054; July 22; v. 264; p. 658.
- Davison, Gregory C., Groton, Conn. Depth-charge projector. No. 1,323,162; Nov. 25; v. 268; p. 694.
- Davison, Thomas. (See Henrikson and Davison.)
- Davison, William M., and G. C. Riddell, Port. Pirie, South Australia, Australia. Sintering-machine. No. 1,315,910; Sept. 9; v. 266; p. 272.
- Davol, George K., assignor, by mesne assignments, to P. H. Reardon, San Francisco, Calif. Air-compressor. No. 1,310,944; July 22; v. 264; p. 637.
- Davol Rubber Company. (See Wesley, Perley R., assignor.)
- Davoplane Bed Company. (See Freedman, Hyman and N. M., assignors.)
- Davoran, Michael F., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Electroplating. No. 1,318,053; Oct. 7; v. 267; p. 75.
- Davoran, Michael F., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Apparatus for electroplating. No. 1,318,054; Oct. 7; v. 267; p. 75.
- Davoran, Michael F., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 1,325,781; Dec. 23; v. 269; p. 604.
- Davy Brothers. (See Mills, Charles A., assignor.)
- Davy Brothers Limited. (See Hand, Thomas W., assignor.)
- Davy, Christopher S. (See Parker, Davy, and Melkireid.)
- Davys, Hubert J., et al. (See Varvel, Sidney L., assignor.)
- Dawer, Antonio, New York, N. Y. Graphophone attachment for moving pictures. No. 1,323,579; Dec. 2; v. 269; p. 67.
- Dawes, John L., Pittsburgh, Pa. Protector for lamps or sign structures. No. 1,305,696; June 3; v. 263; p. 88.
- Dawes, W. R., trustee. (See Saxton and Menard, assignors.)
- Dawson, Alfred, Kent, England. Photographic camera. No. 1,299,431; Apr. 8; v. 261; p. 213.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Elevating mechanism of heavy guns. No. 1,291,775; Jan. 21; v. 258; p. 474.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ammunition-hoisting apparatus. No. 1,302,527; May 6; v. 262; p. 9.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Air-recuperator apparatus for storing part of the recoil energy of ordnance. No. 1,322,230; Nov. 18; v. 268; p. 467.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Energizing or tensioning device for spiral springs. No. 1,292,267; Jan. 21; v. 258; p. 596.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,298,907; Apr. 1; v. 261; p. 67.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Siege-gun mounting. No. 1,299,138; Apr. 1; v. 261; p. 119.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Firing mechanism of breech-loading guns. No. 1,299,139; Apr. 1; v. 261; p. 119.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance sighting apparatus. No. 1,300,353; Apr. 15; v. 261; p. 444.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance sighting apparatus. No. 1,300,354; Apr. 15; v. 261; p. 444.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-carriage. No. 1,300,355; Apr. 15; v. 261; p. 445.



*Alphabetical list of patentees—Continued.*

- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,300,356; Apr. 15; v. 261; p. 445.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-sighting apparatus. No. 1,306,409; June 10; v. 263; p. 254.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Electrical apparatus for transmitting or receiving signals. No. 1,306,410; June 10; v. 263; p. 254.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Sighting apparatus for ordnance. No. 1,306,412; June 10; v. 263; p. 254.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Sighting apparatus for ordnance. No. 1,306,413; June 10; v. 263; p. 254.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Breech mechanism of ordnance. No. 1,302,517; May 6; v. 262; p. 8.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Lock mechanism of breech-loading guns. No. 1,302,518; May 6; v. 262; p. 8.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,302,519; May 6; v. 262; p. 8.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Breech-loading ordnance. No. 1,302,520; May 6; v. 262; p. 8.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Air-blast gear of breech-loading ordnance. No. 1,302,521; May 6; v. 262; p. 8.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,302,522; May 6; v. 262; p. 9.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Breech-loading ordnance. No. 1,302,523; May 6; v. 262; p. 9.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Percussive firing mechanism of ordnance. No. 1,302,524; May 6; v. 262; p. 9.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,302,525; May 6; v. 262; p. 9.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Loading apparatus for ordnance. No. 1,302,526; May 6; v. 262; p. 9.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,302,528; May 6; v. 262; p. 10.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Percussive firing mechanism of ordnance. No. 1,302,529; May 6; v. 262; p. 10.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Hang-fire device for breech-loading ordnance. No. 1,302,530; May 6; v. 262; p. 10.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Lock mechanism of ordnance. No. 1,303,638; May 13; v. 262; p. 244.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Distant control of mechanism such as gun sights or turrets. No. 1,304,269; May 20; v. 262; p. 399.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ball-and-socket joint. No. 1,304,270; May 20; v. 262; p. 399.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Breech mechanism of ordnance. No. 1,304,271; May 20; v. 262; p. 399.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Sighting apparatus for anti-aircraft guns. No. 1,304,272; May 20; v. 262; p. 399.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Recoil and run-out apparatus for guns. No. 1,312,105; Aug. 5; v. 265; p. 48.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Machine-gun. No. 1,312,106; Aug. 5; v. 265; p. 48.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Firing mechanism of ordnance. No. 1,312,107; Aug. 5; v. 265; p. 48.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Machine-gun. No. 1,314,734; Sept. 2; v. 266; p. 49.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,315,363; Sept. 9; v. 266; p. 173.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Mounting for automatic guns. No. 1,317,862; Oct. 7; v. 267; p. 39.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,318,055; Oct. 7; v. 267; p. 75.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,318,056; Oct. 7; v. 267; p. 75.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Mounting for high-grade ordnance. No. 1,318,731; Oct. 14; v. 267; p. 265.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,324,800; Dec. 16; v. 269; p. 405.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C. Breech mechanism of ordnance. No. 1,298,020; Mar. 25; v. 260; p. 577.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C. Ordnance breech mechanism. No. 1,326,580; Dec. 30; v. 269; p. 791.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C. Ordnance breech mechanism. No. 1,326,712; Dec. 30; v. 269; p. 815.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, and E. F. Ellis, Purley, England. Gun-mounting. No. 1,299,140; Apr. 1; v. 261; p. 119.
- Dawson, Charles, and E. E. Morgan, Belvidere, Ill. Cartridge fuse-plug. No. 1,314,576; Sept. 2; v. 266; p. 19.
- Dawson, James C., Webster Groves, Mo. Portable sample-sheet holder and display-rack. No. 1,292,720; Jan. 28; v. 258; p. 726.
- Dawson, James W., Chicago, Ill. Valve-stem-lubricating shield. No. 1,293,607; Feb. 4; v. 259; p. 147.
- Dawson, Thomas J., Columbia, Mo. Lap-ring. No. 1,314,637; Sept. 2; v. 266; p. 31.
- Day, Albert, Leeds, England. Burner applicable for use with incandescent mantles for gas-lighting. No. 1,304,273; May 20; v. 262; p. 400.
- Day, Albert V. T., New Rochelle, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Traffic-controlling system. No. 1,308,401; July 1; v. 264; p. 72.
- Day, Alfred B., Oliver Springs, Tenn. Mining-car wheel. No. 1,326,255; Dec. 30; v. 269; p. 729.
- Day, Alfred B., Oliver Springs, Tenn. Mining-car wheel. No. 1,326,649; Dec. 30; v. 269; p. 803.
- Day, David E., Washington, D. C. Treatment of shales and coals. No. 1,323,681; Dec. 2; v. 269; p. 85.
- Day, E. H. (See Thexton, Henry A., assignor.)
- Day, Edgar K., assignor of one-half to H. E. Dunlap, Wheeling, W. Va. Screw for attaching metal plates. No. 1,301,398; Apr. 22; v. 261; p. 699.
- Day, Ernest H. (See Ellison, August J., assignor.)
- Day, George H., Southbridge, Mass. Safety device. No. 1,308,775; July 8; v. 264; p. 169.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,291,433; Jan. 14; v. 258; p. 363.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,295,128; Feb. 25; v. 259; p. 591.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Guard. No. 1,295,279; Feb. 25; v. 259; p. 624.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,298,908; Apr. 1; v. 261; p. 67.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,305,697; June 3; v. 263; p. 88.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,306,527; June 10; v. 263; p. 275.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Temple. No. 1,306,805; June 17; v. 263; p. 359.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Bridge. No. 1,307,118; June 17; v. 263; p. 417.
- Day, George H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,308,484; July 1; v. 264; p. 87.
- Day, Herbert W., Wollaston, Mass., assignor to Spray Engineering Company, Boston, Mass. Method of and apparatus for applying coating. No. 1,321,014; Nov. 4; v. 268; p. 124.
- Day, John S. (See Stine, George R., assignor.)
- Day, Joseph L., Nash, Okla. Automobile-lock. No. 1,293,862; Feb. 4; v. 259; p. 90.
- Day, Kelly B., et al. (See Day, William B., assignor.)
- Day, Ralph B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Mold-breaking apparatus. No. 1,299,917; Apr. 8; v. 261; p. 324.



- Day, Robert U., Stephenson, Miss. Nut-lock. No. 1,305,698; June 3; v. 263; p. 89.
- Day, Samuel, Bridgeton, N. J. Light for vehicle-curtains. No. 1,303,777; May 13; v. 262; p. 270.
- Day, Samuel S. (See Day, William H. and S. S.)
- Day, Thomas, *et al.* (See Day, Thomas, Jr., assignor.)
- Day, Thomas, Jr., assignor of one-third to T. Day and one-third to E. Webb, Okehampton, England. Vehicle. No. 1,325,353; Dec. 16; v. 269; p. 507.
- Day, Wallace E., Oakland, assignor to Spencer Elevator Co., San Francisco, Cal. Safety-lock for elevator-doors. No. 1,295,444; Feb. 25; v. 259; p. 662.
- Day, Wilbur F., St. Paul, Minn. Burner. No. 1,310,066; July 15; v. 264; p. 445.
- Day, Willard L. (See Stratton, Nathaniel A., assignor.)
- Day, William B., Richmond, assignor of one-fourth to K. B. Day and one-fourth to H. P. Renick, Winchester, Ky. Antifreezing system for automobile-radiators. No. 1,325,558; Dec. 23; v. 269; p. 563.
- Day, William H. and S. S. Roganville, Tex. Tie. No. 1,291,776; Jan. 21; v. 258; p. 474.
- Day, William P., Cleveland, Ohio. Rail-supporting structure. No. 1,317,779; Oct. 7; v. 267; p. 23.
- Daymon, George W. (See Lecky and Daymon.)
- Dayton Beater & Hoist Company. (See Folsom, Clarence P., assignor.)
- Dayton Beater and Hoist Company. (See Folsom and Halteman, assignors.)
- Dayton Engineering Laboratories Company, The. (See Chryst, William A., assignor.)
- Dayton Engineering Laboratories Company, The. (See Kettering, Charles F., assignor.)
- Dayton Engineering Laboratories Company, The. (See Kettering and Chryst, assignors.)
- Dayton Engineering Laboratories Company, The. (See Langner, Lawrence, assignor.)
- Dayton, Frank E. (See Dayton and Edwards.)
- Dayton, Frank L. and F. E., and C. H. Edwards, assignors to said Frank L. Dayton and W. J. Boyle, Los Angeles, Calif. Dispensing and measuring pump. No. 1,320,845; Nov. 4; v. 263; p. 91.
- Dayton, James S., Cumberland, Md. Rail sawing and punching machine. No. 1,297,112; Mar. 11; v. 260; p. 328.
- Dayton Manufacturing Company, The. (See Kirby, John, Jr., assignor.)
- Dayton Metal Products Company, The. (See Midgley, Thomas, Jr., assignor.)
- Dayton Metal Products Company, The. (See Mougey and Jacobs, assignors.)
- Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
- Dayton, William L., Fort Worth, Tex. Balancing pump-jack. No. 1,293,608; Feb. 4; v. 259; p. 147.
- Dayton, William L., Fort Worth, Tex. Even-balance pump-jack. No. 1,293,609; Feb. 4; v. 259; p. 147.
- Dayton, William L., assignor to Gravity Pump and Power Co., Fort Worth, Tex. Pump-jack. No. 1,309,842; July 15; v. 264; p. 404.
- Dayton, William L., assignor to Gravity Pump and Power Co., Fort Worth, Tex. Pump-jack. No. 1,309,843; July 15; v. 264; p. 404.
- Dayton, William L., and J. M. Scott, Fort Worth, Tex. Well-drilling machine. No. 1,301,915; Apr. 29; v. 261; p. 829.
- Dayton, William L., and J. M. Scott, Fort Worth, Tex. Power-jack. No. 1,319,212; Oct. 21; v. 267; p. 383.
- De Aburto, Jose R., Madrid, Spain. Internal-combustion engine. No. 1,310,906; July 22; v. 264; p. 630.
- De Acuña, José, Madrid, Spain. System of elastic wheels for all classes of automotors or towed vehicles. No. 1,315,012; Sept. 2; v. 266; p. 99.
- De Albertis, Claude, London, England. Internal-combustion engine. No. 1,290,925; Jan. 14; v. 258; p. 245.
- De Barros, Diogo D., São Paulo, Brazil. Means for reducing ores. No. 1,313,274; Aug. 19; v. 265; p. 320.
- De Barros, Jose, Imperial, Calif. Automobile-signal. No. 1,322,880; Nov. 25; v. 268; p. 640.
- De Bary, Albert, Jr., New York, N. Y. Polish. No. 1,301,823; Apr. 29; v. 261; p. 811.
- De Bella, Salvatore, Jr., New York, N. Y. Union-garment. No. 1,294,630; Feb. 18; v. 259; p. 452.
- De Bella, Salvatore, Jr., New York, N. Y. Traveling music-sheet and attachment. No. 1,294,631; Feb. 18; v. 259; p. 452.
- De Bergue & Company. (See Shaw, Richard, assignor.)
- De Bernyz, Bertrand, New York, N. Y. Respiration-indicator. No. 1,299,306; Apr. 1; v. 261; p. 157.
- De Berry, Robert H., Portland, Oreg. Door-hanger for freight-cars. No. 1,292,440; Jan. 28; v. 258; p. 658.
- De Bersaques, Romain, Seattle, Wash. Towel-service machine. No. 1,298,909; Apr. 1; v. 261; p. 67.
- De Beuckelaere, Ivo C., *et al.* (See Ward, James J., assignor.)
- De Bijl Nachenius, Henri A. J., Haarlem, Netherlands. Centrifugal pump. No. 1,298,248; Mar. 25; v. 260; p. 625.
- De Boischevalier, Henri. (See Haflner, Leopold C., assignor.)
- De Bolotoff, Serge V., London, England. Means to receive strut ends in aeroplanes and other structures. No. 1,297,331; Mar. 18; v. 260; p. 405.
- De Bolotoff, Serge V., London, England. Hydrocraft planing-surface. No. 1,301,917; Apr. 29; v. 261; p. 829.
- De Bower, Andrew J., Dane, Wis. Comfort collar-clasp. No. 1,318,544; Oct. 14; v. 267; p. 230.
- De Brayer, Alfred, Paris, France. Apparatus for use in taking cinematograph-pictures. No. 1,319,698; Oct. 28; v. 267; p. 495.
- De Camp, Charles B., *et al.* (See De Camp, James W., assignor.)
- De Camp, James W., assignor of one-fourth to C. E. De Camp, Blackwell, and one-fourth to J. P. Miller, Muskogee, Okla. Casket-carrying harness. No. 1,292,268; Jan. 21; v. 258; p. 596.
- De Campo, Manuel, Mexico, Mex. Rotary engine. No. 1,310,157; July 15; v. 264; p. 461.
- De Case, Joseph, Cleveland, Ohio. Ammunition-shell. No. 1,294,059; Feb. 11; v. 259; p. 284.
- De Catelan Castellani, Gastone, Rome, Italy. Artificial limb. No. 1,305,768; June 3; v. 263; p. 102.
- De Cazen, Canaan, Montreal, Quebec, Canada. Gun. No. 1,317,434; Sept. 30; v. 266; p. 656.
- De Cesare, Matteo, Clifton, assignor of one-fourth to E. Bocchino, Passaic, and one-half to H. Rosensohn and M. Lowy, Essex county, N. J. Sanitary automatic slicing-machine, coffee-grinder, and scale. No. 1,324,801; Dec. 16; v. 269; p. 405.
- De Cesare, Matteo, and J. D. Chiaie, Clifton, N. J., assignors of one-third to P. Diodato, New York, N. Y. Automobile-jack. No. 1,309,511; July 8; v. 264; p. 305.
- De Cew, Judson A., Montreal, Quebec, Canada. Making resin size. No. 1,292,721; Jan. 28; v. 258; p. 726.
- De Cew, Judson A., Montreal, Quebec, Canada. Treating paper-pulp. No. 1,300,357; Apr. 15; v. 261; p. 445.
- De Cew, Judson A., Montreal, Quebec, Canada. Paper-size and process of making same. No. 1,317,616; Sept. 30; v. 266; p. 692.
- De Cew, Judson A., Montreal, Quebec, Canada. Making emulsions. No. 1,317,617; Sept. 30; v. 266; p. 692.
- De Cew, Judson A., Montreal, Quebec, Canada. Paper product and making same. No. 1,317,618; Sept. 30; v. 266; p. 692.
- De Cew, Judson A., Montreal, Quebec, Canada. Treating paper-size. No. 1,317,619; Sept. 30; v. 266; p. 692.
- De Clairmont, Adolfo, Toledo, Ohio. Combined air and decarbonizing valve. No. 1,296,922; Mar. 11; v. 260; p. 286.
- De Clamecy, Philippe, Charlestown, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Foldable type-writing machine. No. 1,294,060; Feb. 11; v. 259; p. 284.
- De Clamecy, Philippe, Charlestown, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Foldable type-writing machine. No. 1,311,879; Aug. 5; v. 265; p. 5.
- De Clamecy, Philippe, Boston, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Type-writing machine. No. 1,315,013; Sept. 2; v. 266; p. 99.
- De Clamecy, Philippe, Boston, Mass., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Type-writing machine. No. 1,317,485; Sept. 30; v. 266; p. 666.
- De Clercq, Augustus G., *et al.* (See Jones, Ora O., assignor.)
- De Clercq, Hendrik, Amsterdam, Netherlands. Means for inking printing-forms. No. 1,324,770; Dec. 9; v. 269; p. 337.
- De Clercq, Hendrik, Amsterdam, Netherlands. Printing-machine. No. 1,324,771; Dec. 9; v. 269; p. 337.
- De Clyne, Emil, Mountain Lakes, N. J. Toy or game. No. 1,324,386; Dec. 9; v. 269; p. 264.
- De Corte, Auguste, Rosebank, N. Y. Pigeon-loft. No. 1,301,660; Apr. 22; v. 261; p. 748.
- De Erb, Francis A., Jr., Homestead, N. J. Smoke-consumer. No. 1,326,033; Dec. 23; v. 269; p. 651.
- De Escobales, Hilario, New York, N. Y. Tobacco-product package. No. 1,295,461; Feb. 25; v. 259; p. 666.
- De Escobales, Hilario, New York, N. Y. Labeling-machine. No. 1,297,664; Mar. 18; v. 260; p. 474.
- De Escobales, Hilario, New York, N. Y. Packaging-machine. No. 1,309,122; July 8; v. 264; p. 234.
- De Escobales, Hilario, New York, N. Y. Machine for measuring and packing tobacco. No. 1,320,038; Oct. 28; v. 267; p. 562.
- De Escobales, Hilario, New York, N. Y. Apparatus for wrapping packages and inclosing same in preformed containers. No. 1,323,163; Nov. 25; v. 268; p. 694.
- De Felice, Carlo, New York, N. Y. Dental plate. No. 1,298,673; Apr. 1; v. 261; p. 11.
- De Felice, Carlo, New York, N. Y. Gun-loading mechanism. No. 1,304,274; May 20; v. 262; p. 400.
- De Ferranti, Sebastian Z., Hollinwood, England. Production of shell and like forgings. No. 1,306,583; June 10; v. 263; p. 285.
- De Ferranti, Sebastian, Z., Baslow, England. Steam-superheating. No. 1,319,699; Oct. 28; v. 267; p. 498.
- De Fonblanque, Arthur F., *et al.* (See Druitt and Gilpin, assignors.)
- De Fontaine, Wade H. and W. H., Jr., New York, N. Y. Life-preserver. No. 1,290,927; Jan. 14; v. 258; p. 246.
- De Ford, Eugene E., Oakland, Calif., assignor of five-eighths to D. H. MacQuiddy and T. S. MacQuiddy. Automobile-signal. No. 1,325,146; Dec. 16; v. 269; p. 469.



## Alphabetical list of patentees—Continued.

- De Ford, Nancy H. H., *et al.* (See Malone, Leon S., assignor.)
- De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Apparatus for use in radiocommunication. No. 1,299,356; Apr. 1; v. 261; p. 168.
- De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Means for transforming mechanical vibrations into electrical vibrations. No. 1,309,753; July 15; v. 264; p. 388.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone and Telegraph Company. Method of and means for reproducing and amplifying weak pulsating currents. No. 1,314,250; Aug. 26; v. 265; p. 538.
- De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Radiotelephony. No. 1,314,251; Aug. 26; v. 265; p. 538.
- De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Oscillation-generator. No. 1,314,252; Aug. 26; v. 265; p. 538.
- De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Apparatus for use in wire or radio communications. No. 1,314,253; Aug. 26; v. 265; p. 538.
- De Forest, Lee, Spuyten Duyvil, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Oscillation-generator. No. 1,311,264; July 29; v. 264; p. 729.
- De Forest Radio Telephone & Telegraph Company. (See Coyer, Henry S., assignor.)
- De Forest Radio Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
- De Filippis, Raymond, Brooklyn, N. Y. Dirigible headlight. No. 1,324,655; Dec. 9; v. 269; p. 316.
- De France, Murrell R., Bellevue, Pa. Brake-shoe. No. 1,303,172; May 6; v. 262; p. 132.
- De France, Murrell R., Bellevue, Pa. Brake-shoe. No. 1,303,173; May 6; v. 262; p. 133.
- De France, Murrell R., Bellevue, Pa. Method and device for use in the manufacture of brake-shoes. No. 1,321,897; Nov. 18; v. 268; p. 405.
- De Gay, Ernest, Livingston Heights, Va. Ribbon cleaner and drier. No. 1,304,275; May 20; v. 262; p. 400.
- De Guire, Georges A., Montreal, Quebec, Canada. Electromechanical motor. No. 1,296,634; Mar. 11; v. 260; p. 219.
- De Guire, Georges A., Montreal, Quebec, Canada. Electromechanical motor. No. 1,296,635; Mar. 11; v. 260; p. 220.
- De Guire, Georges A., Montreal, Quebec, Canada. Trip-switch. No. 1,296,636; Mar. 11; v. 260; p. 220.
- De Haeleer, Henry, Paris, France, assignor to The Troy Wagon Works Company, Troy, Ohio. Truck-coupling. No. 1,304,276; May 20; v. 262; p. 400.
- De Hart, Joseph H., Woolwine, Va. Dirigible headlight. No. 1,307,970; June 24; v. 263; p. 605.
- De Hart, William A., and J. A. Watt, New York, N. Y. Cork or stopper extractor. No. 1,306,848; June 17; v. 263; p. 367.
- De Haven, William L., assignor of one-eighth to C. A. Latham, Wichita, Kans. Ball-throwing toy. No. 1,309,614; July 15; v. 264; p. 362.
- De Haven, William L., assignor of one-half to C. A. Latham, Wichita, Kans. Indoor-base-ball game. No. 1,320,606; Nov. 4; v. 268; p. 46.
- De Havilland, Geoffrey, and J. S. Chapman, London, assignors to The Aircraft Manufacturing Company, Limited, Westminster, London, England. Fuel-supply pump for aeroplane-engines and the like. No. 1,318,732; Oct. 14; v. 267; p. 266.
- De Holzer, Lewis, Sioux City, Iowa. Vehicle-wheel tire and rim. No. 1,323,457; Dec. 2; v. 269; p. 44.
- De Khotinsky, Achilles, assignor to Central Scientific Company, Chicago, Ill. Electrically-heated incubator. No. 1,325,834; Dec. 23; v. 269; p. 614.
- De Koning, Jacob, assignor to Grand Rapids Grinding Machine Company, Grand Rapids, Mich. Grinding-machine. No. 1,324,497; Dec. 9; v. 269; p. 286.
- De Koning, Jacob, and S. O. Livingston, Grand Rapids, Mich. Grinding-machine. No. 1,293,048; Feb. 4; v. 259; p. 18.
- De La Barre, Alfred, Minneapolis, Minn. Steering device for automobiles. No. 1,301,137; Apr. 22; v. 261; p. 647.
- De La Beldad, Ramon G., New York, N. Y. Dental bridge-work. No. 1,324,331; Dec. 9; v. 269; p. 253.
- De la Chevallerie de la Grandville, Henri J. L. M., and A. Guéret, Paris, France. Two-stroke internal-combustion engine. No. 1,301,661; Apr. 22; v. 261; p. 748.
- De La Fontaine, Michele, New York, N. Y. Combination phonograph and picture-reproducer. No. 1,303,217; May 6; v. 262; p. 141.
- De La Vergne Machine Company. (See Neeson, Charles R., assignor.)
- De Laitte, Leopold B. (See Love, Marcus S., assignor.)
- De Lange, Pieter, Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. System of wireless telegraphy and telephony. No. 1,317,435; Sept. 30; v. 266; p. 656.
- De Lange, Pieter, and R. A. van Lynden, assignors to Naamlooze Vennootschap De Nederlandsche Thermophone Maatschappij, Utrecht, Netherlands. Thermic telephone. No. 1,290,114; Jan. 7; v. 258; p. 25.
- De Lange, Pieter, and R. A. van Lynden, Utrecht, Netherlands, assignors, by mesne assignments, to American Thermophone Company, Boston, Mass. Thermic telephone and its manufacture. No. 1,321,989; Nov. 18; v. 268; p. 422.
- De Lange, Pieter, and R. A. van Lynden, Utrecht, Netherlands, assignors, by mesne assignments, to American Thermophone Company, Boston, Mass. Heating-conductor for thermic telephones. No. 1,321,990; Nov. 18; v. 268; p. 422.
- De Lappe, Birch W., Norfolk, Va. Game-board. No. 1,292,722; Jan. 28; v. 258; p. 726.
- De las Fuentes, José, Mexico, Mexico. Treating natural soda. No. 1,308,899; July 8; v. 264; p. 192.
- De Laski and Thropp Circular Woven Tire Company, The. (See Thropp, John E. and P. D., assignors.)
- De Laval, Carl G., Orange, and G. R. Townsend, East Orange, N. J., assignors to Henry R. Worthington. Disk meter. No. 1,317,273; Sept. 30; v. 266; p. 625.
- De Laval, Carl G., East Orange, N. J., and R. Heimbecker, New York, N. Y., assignors to Henry R. Worthington, a Corporation of New Jersey. Compound meter. No. 1,319,380; Oct. 21; v. 267; p. 415.
- De Laval, Carl G., Orange, N. J., assignor to Henry R. Worthington, New York, N. Y. Frangible washer. No. 1,324,036; Dec. 9; v. 269; p. 197.
- De Laval, George, Orange, N. J., assignor to T. A. Gillespie Company, New York, N. Y. Detonating-fuse. No. 1,310,742; July 22; v. 264; p. 600.
- De Laval, George, Orange, N. J., assignor to T. A. Gillespie Company, New York, N. Y. Detonating-fuse. No. 1,310,792; July 22; v. 264; p. 610.
- De Laval Separator Company, The. (See Goebler, Charles, assignor.)
- De Laval Separator Company, The. (See Hall, Selden H., assignor.)
- De Laval Separator Company, The. (See Hulbert, John L., assignor.)
- De Laval Separator Company, The. (See Kennedy, Frank W., assignor.)
- De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
- De Laval Steam Turbine Company. (See Peterson, Per A., assignor.)
- De Laval Steam Turbine Company. (See Waller, Carl R., assignor.)
- De Lavaud, Dimitri S., New York, N. Y. Centrifugal casting. No. 1,293,049; Feb. 4; v. 259; p. 18.
- De Lavaud, Dimitri S., New York, N. Y. Method of and apparatus for water-cooling centrifugal pipe-casting machines. No. 1,299,918; Apr. 8; v. 261; p. 324.
- De Lavaud, Dimitri S., New York, N. Y. Bearing for casting-machines. No. 1,302,641; May 6; v. 262; p. 30.
- De Lavaud, Dimitri S., New York, N. Y. Fluid power transmission. No. 1,308,170; July 1; v. 264; p. 30.
- De Lavaud, Dimitri S., New York, N. Y. Centrifugal casting. No. 1,320,744; Nov. 4; v. 268; p. 72.
- De Lavaud, Dimitri S., New York, N. Y. Rotary casting. No. 1,323,252; Dec. 2; v. 269; p. 6.
- De Lavaud, Dimitri S., New York, N. Y. Rotary casting-machine. No. 1,323,253; Dec. 2; v. 269; p. 6.
- De Lay, Frederic A., Chicago, Ill. Phonograph. No. 1,293,363; Feb. 4; v. 259; p. 91.
- De Leeuw, Adolph L., Plainfield, N. J. Nut-branding process. No. 1,323,620; Dec. 2; v. 269; p. 74.
- De Leon Bandeau Company. (See Cohen, Mitchell, assignor.)
- De Lloyd, Hudson K. (See Schoenl, Frank A., assignor.)
- De Long, Charles E., assignor to Illinois Watch Company, Springfield, Ill. Watch. No. 1,292,269; Jan. 21; v. 258; p. 596.
- De Long, Jay. (See Potter, De Long, and Pike.)
- De Long, Marshall R., East Liverpool, Ohio. Baby-mobile. No. 1,310,651; July 22; v. 264; p. 533.
- De Long, Nelson, Chicago, Ill. Washer-cutter. No. 1,299,688; Apr. 8; v. 261; p. 272.
- De Long, Nelson, Chicago, Ill. Treating peat. No. 1,312,521; Aug. 12; v. 265; p. 155.
- De Long, Nelson, assignor to J. M. Laventhal, Chicago, Ill. Fender. No. 1,310,179; July 15; v. 264; p. 466.
- De Long, William A., Jr., Plainfield, N. J. Vehicle-seat attachment. No. 1,303,043; May 6; v. 262; p. 107.
- De Long, William A., Jr., Plainfield, N. J. Auxiliary ribbon-holder. No. 1,305,886; June 3; v. 263; p. 124.
- De Long, William A., Jr., Plainfield, N. J. Rest for books and other reading material. No. 1,320,322; Oct. 28; v. 267; p. 615.
- De Lorme, Alfred C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,322,672; Nov. 25; v. 268; p. 602.
- De Luxe Brush Company, The. (See Loeben, Gustave A., assignor.)
- De Luxe Brush Company. (See McLaughlin, Frank, assignor.)
- De Maine, Marvin. (See Moore, Edwin E., assignor.)
- De Marce, Albert A., Cadott, Wis. Hay-spreader for barns and hay-sheds. No. 1,321,991; Nov. 18; v. 268; p. 422.



- De Marce, Peter L., Minneapolis, Minn. Automatic door opener and closer. No. 1,307,348; June 24; v. 263; p. 491.
- De Mars, Alfred A., Cleveland, Ohio. Filing and delivering apparatus for phonograph-records. No. 1,297,306; Mar. 11; v. 260; p. 370.
- De Mars, John B., Portland, Oreg. Angle-cutting machine. No. 1,319,272; Oct. 21; v. 267; p. 394.
- De Martin, Charles L., assignor to Indiana Lamp Company, Connersville, Ind. Electric headlight control. No. 1,314,639; Sept. 2; v. 266; p. 31.
- De Martini, Paul, Jamaica, N. Y. Drier for macaroni, &c. No. 1,207,785; June 24; v. 263; p. 570.
- De Martino, Joseph, assignor to Mechanical Improvement Company, Chicago, Ill. Power-transmitting mechanism. No. 1,310,114; July 15; v. 264; p. 453.
- De Martino, Joseph, assignor to Mechanical Improvement Company, Chicago, Ill. Power-transmitting mechanism. No. 1,310,115; July 15; v. 264; p. 454.
- De Martino, Joseph, assignor to Simplex Corporation, Chicago, Ill. Antifriction-bearing. No. 1,326,034; Dec. 23; v. 269; p. 651.
- De Martino, Joseph, and E. Maurey, Chicago, Ill. Hydraulic transmission. No. 1,310,945; July 22; v. 264; p. 637.
- De Masters, Ben B., Kansas City, Mo. Hat-identifying attachment or marker. No. 1,315,473; Sept. 9; v. 266; p. 193.
- De Mattia, Barthold. (See De Mattia, Peter and B.)
- De Mattia, Peter and B., Clifton, N. J. Rubber-shoe-sole-making apparatus. No. 1,311,856; July 29; v. 264; p. 839.
- De Mattia, Peter and B., Clifton, N. J. Tire-building core and chuck. No. 1,323,164; Nov. 25; v. 268; p. 695.
- De Mattia, Peter and B., Clifton, N. J. Tire-building core and chuck. No. 1,323,165; Nov. 25; v. 268; p. 695.
- De Mesquita, Julius B., Brooklyn, N. Y. Safety-razor. No. 1,312,390; Aug. 5; v. 265; p. 100.
- De Mier, Fred, assignor to himself and A. E. Bendelari, Picher, Okla. Apparatus for concentrating ore. No. 1,308,049; July 1; v. 264; p. 8.
- De Miles, Paul, New York, N. Y. Electric furnace. No. 1,317,863; Oct. 7; v. 267; p. 38.
- De Miles, Paul, New York, N. Y. Electric furnace. No. 1,317,864; Oct. 7; v. 267; p. 39.
- De Milt, David G., Tampa, Fla. Ball-cock. No. 1,313,797; Aug. 19; v. 265; p. 417.
- De Minico, Charles, Portsmouth, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,295,129; Feb. 25; v. 259; p. 591.
- De Mooy, Charles W., assignor to The De Mooy Electric Co., Cleveland, Ohio. High-frequency machine. No. 1,323,354; Dec. 2; v. 269; p. 25.
- De Mooy Electric Co., The. (See De Mooy, Charles W., assignor.)
- De Muth, Charles J., assignor to S. Grossman, Pittsburgh, Pa. Washer-feeding machine. No. 1,307,900; June 24; v. 263; p. 592.
- De Noon, John A., Buffalo, N. Y. Jointer-guard. No. 1,301,401; Apr. 22; v. 261; p. 700.
- De Normanville, Samuel A., London, England. Spray-guard for telescopes. No. 1,304,548; May 27; v. 262; p. 493.
- De Normanville, Samuel A., Ealing, and L. H. Kent, Stanmore, England. Visual weather-screen. No. 1,297,805; Mar. 18; v. 260; p. 505.
- De Nure, Ulysses S., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Retainer for sewing-machines. No. 1,324,543; Dec. 9; v. 269; p. 295.
- De Parade, Albert, Cordell, Okla. Broom-molstener. No. 1,322,766; Nov. 25; v. 268; p. 620.
- De Paul, John. (See Di Falco and De Paul.)
- De Pue, James M. and T. N., Spencer, W. Va. Automobile-lock. No. 1,315,949; Sept. 16; v. 266; p. 293.
- De Pue, Thomas N. (See De Pue, James M. and T. N.)
- De Puy, Hart S. (See Burch, Charles E. S., assignor.)
- De Rake, James, Baltimore, Md. Cone-holder. No. 1,305,164; May 27; v. 262; p. 607.
- De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company, Socket. No. 1,316,975; Sept. 23; v. 266; p. 533.
- De Rigne, Charles A., Los Angeles, Calif. Tire-pump. No. 1,323,168; Nov. 25; v. 268; p. 695.
- De Robertis, Attilio. (See Kennedy and De Robertis.)
- De Rochemont, Percy E. (See Fuller and De Rochemont.)
- De Roode, Trimble, New York, N. Y. Combined type-writing and printing machine. No. 1,292,724; Jan. 28; v. 258; p. 727.
- De Roode, Trimble, New York, N. Y. Moving-picture film. No. 1,324,235; Dec. 9; v. 269; p. 235.
- De Rooy, William, New York, N. Y. Pneumatic tire. No. 1,303,865; May 20; v. 262; p. 325.
- De Rooy, William, New York, N. Y. Wrench. No. 1,305,887; June 3; v. 263; p. 124.
- De Rulter, Harry W., Toledo, Ohio. Automobile-top. No. 1,301,402; Apr. 22; v. 261; p. 700.
- De Saunier, Charles L. B., Paris, France. Doll, lay figure, skeleton, and the like. No. 1,315,820; Sept. 9; v. 266; p. 254.
- De Schamps, John W., Muskogee, Okla. Air-pressure governor for air-brake systems. No. 1,304,162; May 20; v. 262; p. 378.
- De Simone, Michele G., New York, N. Y., assignor to New York Calculating Machine Company. Keyboard mechanism. No. 1,318,135; Oct. 7; v. 267; p. 90.
- De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Safety operating mechanism. No. 1,295,447; Feb. 25; v. 259; p. 663.
- De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Feeding device for stay-applying machines. No. 1,305,342; June 3; v. 263; p. 21.
- De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Feeding device for stay-applying machines. No. 1,305,343; June 3; v. 263; p. 22.
- De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Safety operating mechanism. No. 1,309,246; July 8; v. 264; p. 256.
- De Stefano, Charles, North Bellport, N. Y. Burglar-alarm. No. 1,294,242; Feb. 11; v. 259; p. 327.
- De Stefano, John B., New York, N. Y. Airship. No. 1,303,174; May 6; v. 262; p. 133.
- De Tamble, Richard, Detroit, Mich. Baseball-game apparatus. No. 1,324,037; Dec. 9; v. 269; p. 197.
- De Vaughn, Harry E., assignor to W. A. Jones, Morgantown, W. Va. Flattening device. No. 1,302,485; Apr. 29; v. 261; p. 937.
- De Vaughn, Harry E., assignor to W. A. Jones, Morgantown, W. Va. Flattening-oven. No. 1,308,341; July 1; v. 264; p. 61.
- De Vaughn, Harry E., assignor to W. A. Jones, Morgantown, W. Va. Glass-furnace. No. 1,322,767; Nov. 25; v. 268; p. 620.
- De Vaul, William, Ocean View, assignor of one-half to B. Tomlin, Millville, N. J. Valve-grinding tool. No. 1,305,200; May 27; v. 262; p. 615.
- De Ved, Charles. (See Kissick and De Ved.)
- De Vignier, Robert M., Hollis, N. Y., and B. Freile, Bogota, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Circuit-controlling switch. No. 1,295,709; Feb. 25; v. 259; p. 725.
- De Vilbiss Manufacturing Company, The. (See Gradolph, William F., assignor.)
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Tucking attachment for sewing-machines. No. 1,293,725; Feb. 11; v. 259; p. 205.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing-machine drip-pan. No. 1,295,133; Feb. 25; v. 259; p. 591.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Attachment for sewing-machines. No. 1,296,632; Mar. 11; v. 260; p. 219.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Needle-bar mechanism. No. 1,296,633; Mar. 11; v. 260; p. 219.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Drip-pan for sewing-machines. No. 1,299,143; Apr. 1; v. 261; p. 120.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Looper mechanism for sewing-machines. No. 1,299,402; Apr. 1; v. 261; p. 178.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,300,358; Apr. 15; v. 261; p. 445.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Mechanical movement. No. 1,306,104; June 10; v. 263; p. 195.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Presser-foot mechanism for sewing-machines. No. 1,306,752; June 17; v. 263; p. 349.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,311,880; Aug. 5; v. 265; p. 5.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Edge-guide. No. 1,313,275; Aug. 19; v. 265; p. 320.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Differential feeding mechanism. No. 1,313,524; Aug. 19; v. 265; p. 366.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Hanger-adjusting means for power-transmitters. No. 1,314,511; Sept. 2; v. 266; p. 6.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Differential feeding mechanism. No. 1,317,005; Sept. 23; v. 266; p. 539.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Differential feeding mechanism for sewing-machines. No. 1,317,006; Sept. 23; v. 266; p. 539.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Combined folder and guide for sewing-machines. No. 1,317,865; Oct. 7; v. 267; p. 39.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Power-table. No. 1,320,455; Nov. 4; v. 268; p. 18.



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- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Blindstitch mechanism for sewing-machines. No. 1,320,456; Nov. 4; v. 268; p. 19.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Blindstitch device for sewing-machines. No. 1,320,457; Nov. 4; v. 268; p. 19.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Combined cover-slide and edge-guide. No. 1,323,355; Dec. 2; v. 269; p. 25.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,324,762; Dec. 9; v. 269; p. 336.
- De Voe, Andrew J., Hackensack, N. J. Weather-indicator. No. 1,312,961; Aug. 12; v. 265; p. 242.
- De Vore, James K., Atlanta, Ga. Apparatus for elevating water. No. 1,314,309; Aug. 26; v. 265; p. 549.
- De Vries, Harry, Newark, N. J., and W. A. Donaldson, Brooklyn, N. Y. Apparatus for grinding or polishing precut stones. No. 1,305,038; May 27; v. 262; p. 583.
- De Vry Corporation, The. (See De Vry, Herman A., assignor.)
- De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Motion-picture machine. No. 1,303,542; May 13; v. 262; p. 227.
- De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Motion-picture machine. No. 1,303,543; May 13; v. 262; p. 227.
- De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Motion-picture machine. No. 1,309,087; July 8; v. 264; p. 227.
- De Waele, Julia, St. Louis, Mo. Folding umbrella. No. 1,297,806; Mar. 18; v. 260; p. 506.
- De Winter, Joseph N., New York, N. Y. Fluid-exploded ordnance. No. 1,324,733; Dec. 9; v. 269; p. 330.
- De Witt, Alvah W., Rochester, N. Y. Powder-container. No. 1,310,609; July 22; v. 264; p. 576.
- De Witt, Clarence N., Kimberly, Idaho. Fractional dividers. No. 1,299,307; Apr. 1; v. 261; p. 157.
- De Witt, Dorcy O. (See Miller and De Witt.)
- De Witt, George W. (See Bllesath, Ernest, assignor.)
- De Witt, George W., Fenton, Mich. Electric switch for fire-alarms. No. 1,300,134; Apr. 8; v. 261; p. 371.
- De Witt, La France Co. (See La France and De Witt, assignors.)
- De Witt, Lizette W., Syracuse, N. Y. Monument. No. 1,298,182; Mar. 25; v. 260; p. 611.
- De Witt, Melville L., Holliston, Mass. Toaster and warmer. No. 1,297,549; Mar. 18; v. 260; p. 450.
- De Witt, William P. (See La France and De Witt.)
- De Ybarrodo, Vincent C., Los Angeles, Calif. Apparatus for treating films. No. 1,319,026; Oct. 14; v. 267; p. 322.
- De Ycaza, Mariano, Ithaca, N. Y. Egg-carrier. No. 1,312,238; Aug. 5; v. 265; p. 72.
- De Yong, Joe, Chateau, Mont. Electric-flash-light holder. No. 1,318,850; Oct. 14; v. 267; p. 288.
- De Young, Ernest V., and L. Terwilliger, Crystal, Mich. Nut-lock. No. 1,298,469; Mar. 25; v. 260; p. 672.
- Deadmond, Isaac E., Newkirk, Okla. Fuel-lock. No. 1,311,863; July 29; v. 264; p. 841.
- Deidwyler, Carl M., Dayton, Ohio. Furniture-brace. No. 1,297,330; Mar. 18; v. 260; p. 405.
- Deagan, Jefferson C., Chicago, Ill. Hammer. No. 1,291,777; Jan. 21; v. 258; p. 474.
- Deagan, Jefferson C., Chicago, Ill. Xylophone. No. 1,293,722; Feb. 11; v. 259; p. 204.
- Deagan, Jefferson C., Chicago, Ill. Xylophone. No. 1,293,723; Feb. 11; v. 259; p. 204.
- Deagan, Jefferson C., Chicago, Ill. Percussion musical instrument. No. 1,293,724; Feb. 11; v. 259; p. 204.
- Deagan, Jefferson C., Chicago, Ill. Sound-producing device. No. 1,301,916; Apr. 29; v. 261; p. 829.
- Deagan, John C., Chicago, Ill. Percussion musical instrument. No. 1,291,778; Jan. 21; v. 258; p. 475.
- Deakin, Gerald, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,293,630; Feb. 4; v. 259; p. 152.
- Deakin, Gerald, and L. Polinkowsky, London, England, assignors to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,299,558; Apr. 8; v. 261; p. 242.
- Deal Scott Phares. (See Phares, Walter M., assignor.)
- Deal, Hugh R. (See Frank, Emil R., assignor.)
- Deam, Henry D., Benton Harbor, Mich. Ship-salvaging method and apparatus. No. 1,312,473; Aug. 5; v. 265; p. 117.
- Deam, Henry D., Benton Harbor, Mich. Ship-floating means. No. 1,319,378; Oct. 21; v. 267; p. 414.
- Deam, Henry D., Benton Harbor, Mich. Anchor. No. 1,325,693; Dec. 23; v. 269; p. 588.
- Dean, Clark A., and J. F. Shuford, assignors to Shurnuff Manufacturing Company, St. Louis, Mo. Automobile construction. No. 1,290,522; Jan. 7; v. 258; p. 123.
- Dean, Edwin L., Shrewsbury, Mass. Sawing-machine. No. 1,326,713; Dec. 30; v. 269; p. 815.
- Dean, Ernest G., Schenectady, N. Y. Locomotive and tender connection. No. 1,323,679; Dec. 2; v. 269; p. 85.
- Denn, Homer V. (See Phillips and Dean.)
- Dean, J. W., Sr. (See Dean, Joseph W., Jr., assignor.)
- Dean, James H., assignor to Cole Manufacturing Company, Chicago, Ill. Range. No. 1,320,743; Nov. 4; v. 268; p. 72.
- Dean, James H., assignor to Cole Manufacturing Company, Chicago, Ill. Range. No. 1,324,011; Dec. 2; v. 269; p. 148.
- Dean, John D., assignor of one-third to F. A. Howarth and one-third to H. A. Jardin, Johannesburg, Transvaal, South Africa. Means for controlling variable-speed gears. No. 1,291,779; Jan. 21; v. 258; p. 475.
- Dean, John F. (See Gove, Henry H., assignor.)
- Dean, John G. (See Gilbert, Taylor, Dean, and Elder.)
- Dean, John H., Toledo, Ohio. Lantern. No. 1,322,231; Nov. 18; v. 268; p. 467.
- Dean, John S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Brush-holder. No. 1,295,860; Mar. 4; v. 260; p. 10.
- Dean, Joseph W., Jr., assignor of one-half to J. W. Dean, Sr., Fond, Centaur, Mo. Vulcanizer. No. 1,291,434; Jan. 14; v. 258; p. 363.
- Dean, M. S., trustee. (See Reid, Moses J., assignor.)
- Dean, Mark, Boonville, N. Y. Pipe-vise. No. 1,318,057; Oct. 7; v. 267; p. 76.
- Dean, Peter P., New York, N. Y. Controller for motor-driven valves and other devices. No. 1,295,445; Feb. 25; v. 259; p. 663.
- Dean, Peter P., New York, N. Y. Driving mechanism for valves and other devices. No. 1,325,005; Dec. 16; v. 269; p. 442.
- Dean, William E., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,295,010; Feb. 18; v. 259; p. 540.
- Dean, William W., Stamford, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Generator. No. 1,298,465; Mar. 25; v. 260; p. 671.
- Dean, William W., Stamford, Conn., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch. No. 1,321,987; Nov. 18; v. 268; p. 421.
- Dean, William W., Stamford, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Speed-determining mechanism. No. 1,325,354; Dec. 16; v. 269; p. 508.
- Deane, Sara E. D., Wrentham, Mass. Combination-undergarment. No. 1,301,399; Apr. 22; v. 261; p. 699.
- Deane, William G., Niagara Falls, N. Y. Tire-casing construction. No. 1,299,305; Apr. 1; v. 261; p. 157.
- Dear, Charles, assignor to The Miris Steel Company Limited, London, England. Manufacture of steel. No. 1,304,946; May 27; v. 262; p. 566.
- Dear, Charles, assignor to The Miris Steel Company Limited, London, England. Manufacture of steel. No. 1,304,947; May 27; v. 262; p. 566.
- Dear, Charles, assignor to The Miris Steel Company Limited, London, England. Manufacture of steel. No. 1,304,948; May 27; v. 262; p. 566.
- Dearborn, Joseph H., Lakewood, Ohio. Carbureter. No. 1,290,109; Jan. 7; v. 258; p. 23.
- Dearborn, Joseph H., Lakewood, Ohio. Automatic slack-adjuster for automobiles. No. 1,294,424; Feb. 18; v. 259; p. 404.
- Dearsley, John W., Racine, Wis. Molding-machine. No. 1,318,849; Oct. 14; v. 267; p. 288.
- Dearsley, John W., Racine, Wis. Molding-machine. No. 1,325,006; Dec. 16; v. 269; p. 442.
- Dearsley, John W., assignor to Freeman Manufacturing Company, Racine, Wis. Foundry-flask clamp. No. 1,309,613; July 15; v. 264; p. 362.
- Deason, Clarence M., Carnegie, Okla. Badge-holder. No. 1,295,280; Feb. 25; v. 259; p. 625.
- Deason, Clarence M., Carnegie, Okla. Paper-file. No. 1,305,589; June 3; v. 263; p. 69.
- Deatrick, Edward, Lancaster, Pa. Stock-releasing device. No. 1,290,110; Jan. 7; v. 258; p. 24.
- Debaugé, Henry, Paris, France. Internal-combustion engine. No. 1,301,232; Apr. 22; v. 261; p. 667.
- Debay, George C., Springdale, assignor to Universal Glass Company, New Kensington, Pa. Glass-bait. No. 1,308,278; July 1; v. 264; p. 50.
- Debay, George C., Springdale, assignor, by mesne assignments, to Universal Glass Company, New Kensington, Pa. Apparatus for making glass cylinders. No. 1,314,638; Sept. 2; v. 266; p. 31.
- Debay, George C., Springdale, assignor, by mesne assignments, to Universal Glass Company, New Kensington, Pa. Glass-drawing bait. No. 1,321,810; Nov. 18; v. 268; p. 389.
- Debam, Henry G., London, England. Rotary internal-combustion engine. No. 1,308,339; July 1; v. 264; p. 61.
- Debold, Otto, Newark, N. J. Ventilator. No. 1,306,253; June 10; v. 263; p. 225.
- Debolt, Charles L. (See Debolt, David and C. L.)
- Debolt, David and C. L., Des Moines, Iowa. Signal device for trains. No. 1,291,435; Jan. 14; v. 258; p. 363.
- Debout, Albert. (See Pinet and Debout.)
- Debs, Louis H. (See Cohn and Debs.)
- Decarie Incinerator Company. (See Stacy, Elmer N., assignor.)
- Decatur Brick Manufacturing Company. (See McCune, Herbert R., assignor.)
- Decatur, Burt W., Springfield, Mass. Axle-bending device. No. 1,297,804; Mar. 18; v. 260; p. 505.



- Decatur, Burt W., Springfield, Mass. Tool-handle. No. 1,302,323; Apr. 29; v. 261; p. 905.
- Decatur Union Chemical Company. (See Barracks, Alfred R., assignor.)
- Deck, Charles F., Braintree, England. V-block. No. 1,306,254; June 10; v. 263; p. 225.
- Decker, Delos A., Sayre, Pa. Safety-ratchet. No. 1,325,464; Dec. 16; v. 269; p. 527.
- Decker, Frederick H. (See Rogers and Decker.)
- Decker, Frederick J., assignor to Shafer-Decker Co., Inc., Rochester, N. Y. Portable grinding-machine. No. 1,316,942; Sept. 23; v. 266; p. 527.
- Decker, Frederick J., assignor to G. W. Henner, Rochester, N. Y. Thermostatic controlling device. No. 1,323,456; Dec. 2; v. 269; p. 44.
- Decker, George, Cincinnati, Ohio. Man's trousers-supporter and the like. No. 1,305,073; May 27; v. 262; p. 590.
- Decker, James H. (See Decker, James M. and J. H.)
- Decker, James M. and J. H., Douglas, Ariz. Latch. No. 1,319,569; Oct. 21; v. 267; p. 451.
- Decker, John A., Chicago, Ill. Motor-driven agricultural tool. No. 1,316,359; Sept. 16; v. 266; p. 369.
- Decker, Sharp, assignor of one-half to R. W. St. Clair, Lovejoy, Pa. Roof-jack. No. 1,290,926; Jan. 14; v. 258; p. 246.
- Deckert, Virgil F., Minneapolis, Minn. Differential mechanism. No. 1,290,111; Jan. 7; v. 258; p. 24.
- Deckert, Virgil F., Minneapolis, Minn. Water-heater. No. 1,290,112; Jan. 7; v. 258; p. 24.
- Declercq, Emile C., Philadelphia, Pa. Box-locking mechanism. No. 1,324,341; Dec. 9; v. 269; p. 255.
- Decowski, John, assignor of one-half to M. Mozdzien, McKees Rocks, Pa. Balloon equilibrium device. No. 1,304,858; May 27; v. 262; p. 550.
- Decuir, Joseph A., Providence, R. I. Stereoscopic camera. No. 1,319,762; Oct. 28; v. 267; p. 510.
- Dedichen, Jens, Berlin-Halensee, Germany, assignor by mesne assignments, to The Chemical Foundation, Inc. Blue tetrakisazo dyes. No. 1,319,852; Oct. 28; v. 267; p. 528.
- Dedman, Henry W., Houston, Tex. Boring-tool. No. 1,313,371; Aug. 19; v. 265; p. 337.
- Dedolph, Walter G. (See Turner and Dedolph.)
- Deeds, Charles B., Savanna, Ill., assignor, by mesne assignments, to Lightning Change Rim Corporation, Berrien Springs, Mich. Tire-rim. No. 1,322,095; Nov. 18; v. 268; p. 441.
- Deeds, Charles B., Savanna, Ill., assignor, by mesne assignments, to Lightning Change Rim Corporation, Berrien Springs, Mich. Collapsible rim. No. 1,322,096; Nov. 18; v. 268; p. 441.
- Deemer, Almon V., and C. Kelley, Leiters Ford, Ind. Heater for automobiles. No. 1,317,966; Oct. 7; v. 267; p. 58.
- Deemer, John M., New York, N. Y. Toy. No. 1,319,379; Oct. 21; v. 267; p. 415.
- Deems, Edward M., Forest Hills, N. Y. Rail-bond. No. 1,318,436; Oct. 14; v. 267; p. 209.
- Deere & Company. (See Brown, Theophilus, assignor.)
- Deere & Company. (See Brown and Strandlund, assignors.)
- Deere and Company. (See Dain, Joseph, assignor.)
- Deere & Company. (See Ervin, John F., assignor.)
- Deere & Company. (See Ginkel, Fred, assignor.)
- Deere and Company. (See Howard, Otis W., assignor.)
- Deere & Company. (See Melvin, Charles H., assignor.)
- Deere & Company. (See Paul, Wesley A., assignor.)
- Deere and Company. (See Paul and Holstein, assignors.)
- Deere & Company. (See Selleck, Theodore G., assignor.)
- Deere & Company. (See Sklovsky, Max., assignor.)
- Deere & Company. (See White, Charles E., assignor.)
- Deere & Company. (See Wilson, Frederick D., assignor.)
- Deere & Mansur Company. (See Dooley, Harry L., assignor.)
- Deere & Mansur Company. (See White, Charles E., assignor.)
- Defiance Check Writer Corporation. (See Plant, Henry J., assignor.)
- Defiance Machine Works, The. (See Gardner, John T., assignor.)
- Defiance Machine Works. (See McCarty, F. W., assignor.)
- Defiance Machine Works. (See McCarty, William F., assignor.)
- Defiance Manufacturing Company. (See Marx, Richard, assignor.)
- Defiance Pressed Steel Company, The. (See Behringer, Grover F., assignor.)
- Degen, H., Sr., et al. (See Lamar, Alexis L., assignor.)
- Degen, Lewis, Pasadena, Calif. Signal-transmitting system. No. 1,324,732; Dec. 9; v. 269; p. 330.
- Degener, Gustave O., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,294,425; Feb. 18; v. 259; p. 404.
- Dehn, George J., Chicago, Ill. Backwater-trap for drain systems. No. 1,318,545; Oct. 14; v. 267; p. 230.
- Dehuff, Wilmer A., Baltimore, and E. T. Griffin, Annapolis, Md. Automobile-lavatory. No. 1,309,512; July 8; v. 264; p. 306.
- Deibel, Christopher S., and L. E. Lawlor, Youngstown, Ohio. Flag-holder. No. 1,308,340; July 1; v. 264; p. 61.
- Deiley, Andrew, Pittsburgh, Pa. Sock-puller. No. 1,315,096; Sept. 2; v. 266; p. 114.
- Deinert, Hans G. J., Big Spring, Tex. Check-valve. No. 1,311,642; July 29; v. 264; p. 800.
- Delsenhofer, Victor, Chicago, Ill. Spring-tire. No. 1,290,113; Jan. 7; v. 258; p. 24.
- Deister Concentrator Company. (See O'Connell, Edward J., assignor.)
- Deister Concentrator Company. (See Walda, William F., assignor.)
- Deitrick, Frederick S., Cambridge, and E. C. Franzmann, Somerville, Mass.; said Franzmann assignor to said Deitrick. Safety-razor. No. 1,295,972; Mar. 4; v. 260; p. 35.
- Del Fungo-Giera, Philippo L. E., New York, N. Y. Gun-mount. No. 1,290,830; Jan. 7; v. 258; p. 196.
- Del Fungo-Giera, Philippo L. E., Pelham, N. Y. Delay-action detonator. No. 1,298,466; Mar. 25; v. 260; p. 671.
- Del Fungo-Giera, Philippo L. E., Pelham, N. Y. Chemical base-detonator. No. 1,298,467; Mar. 25; v. 260; p. 672.
- Del Giudice, Arturo, New York, N. Y. Binding attachment for sewing-machines. No. 1,299,569; Apr. 8; v. 261; p. 245.
- Del Greco, James, New Haven, Conn. Small-arm. No. 1,303,887; May 20; v. 262; p. 329.
- Del Re, Domenic, Iron River, Mich. Life-preserver. No. 1,292,587; Jan. 28; v. 258; p. 695.
- Delage, Marie Y., Paris, France. Magneto-controlling device. No. 1,315,911; Sept. 9; v. 266; p. 272.
- Delany, Edward L., Brooklyn, N. Y. Flush-tank for water-closets. No. 1,320,452; Nov. 4; v. 268; p. 18.
- Delany, Edward L., Brooklyn, N. Y. Floor and ceiling plate for pipes. No. 1,320,453; Nov. 4; v. 268; p. 18.
- Delany, Patrick B., South Orange, N. J., assignor to Telepost Company, New York, N. Y. Treating telegraph-tapes. No. 1,321,421; Nov. 11; v. 268; p. 265.
- Delaporte, Maurice, Paris, France. Device for insuring stability of working steam-ejectors arranged in series. No. 1,306,414; June 10; v. 263; p. 255.
- Delas, Albert. (See Van Deuren, Delas, and Leblanc.)
- Delaughter, James A., Bonita, La. Envelop. No. 1,304,161; May 20; v. 262; p. 378.
- Delaware Chemical Engineering Company. (See Du Pont, Francis I., assignor.)
- Delaware Marine Motors Company. (See Bacon, David J. H., assignor.)
- Delay, Clyde L., Sandborn, Ind. Rotary harrow. No. 1,296,777; Mar. 11; v. 260; p. 252.
- Delby, Desire, San Francisco, Calif. Tobacco-pipe. No. 1,313,796; Aug. 19; v. 265; p. 417.
- Delius, George. (See Tatro and Delius.)
- Della Torre, Frank, Baltimore, Md. Focusing appliances on distant objects. No. 1,326,549; Dec. 30; v. 269; p. 785.
- Dellenbach, Charles G., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Cable conveyer. No. 1,321,811; Nov. 18; v. 268; p. 389.
- Delling, Erik H., Newton, Mass. Spring-shackle. No. 1,296,778; Mar. 11; v. 260; p. 253.
- Dellinger, Abraham M. (See Hoover, Charles E., assignor.)
- Delmar, Ewald, Stockholm, Sweden. Self-adjusting ball-bearing. No. 1,308,522; July 1; v. 264; p. 94.
- Delong, Jacob F., Lambertton, Minn. Grader. No. 1,314,308; Aug. 26; v. 265; p. 549.
- Delpach, Jacques, Paris, France. Manufacturing gun-powders. No. 1,316,360; Sept. 16; v. 266; p. 370.
- Delphoon Company. (See Bousfield, Charlie J., assignor.)
- Delta Electric Company. (See Henderson and Case, assignors.)
- Delvaux, Arthur L., Champaign, Ill. Shoe-polishing brush. No. 1,311,055; July 22; v. 264; p. 658.
- Demarest, Charles S. (See Toomey and Demarest.)
- Demarest, Charles S., Flatbush, N. Y., assignor to American Telephone and Telegraph Company. Relay-selecting circuit for artificial lines. No. 1,308,664; July 1; v. 264; p. 120.
- Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Ringing arrangement for four-wire circuits. No. 1,317,155; Sept. 30; v. 266; p. 604.
- Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Through-ringing repeater-circuits. No. 1,321,723; Nov. 11; v. 268; p. 322.
- Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Amplifier for ringing-currents. No. 1,322,482; Nov. 18; v. 268; p. 515.
- Dembiczak, John C., Polonia, Wis. Automobile-signal. No. 1,323,353; Dec. 2; v. 269; p. 25.
- Dembowsky, Emil, Metuchen, N. J. Engine. No. 1,312,838; Aug. 12; v. 265; p. 218.
- Dembowsky, Emil, Metuchen, N. J. Free-flow and packing-less valve. No. 1,312,839; Aug. 12; v. 265; p. 218.
- Demers, Joseph F., Berwick, Me. Lug connection for picker-sticks. No. 1,292,723; Jan. 28; v. 258; p. 726.
- Demers, Joseph J., R. L. Gordon, and F. E. Snow, assignors to American Optical Company, Southbridge, Mass. Lens-preparing machine. No. 1,294,779; Feb. 18; v. 259; p. 487.



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- Demers, Nazaire, Worcester, Mass. Picker-check. No. 1,312,960; Aug. 12; v. 265; p. 242.
- Demetz, Maurice G. (See Kruse, Theodore H., assignor.)
- Deming Company, The. (See Stratton, James M., assignor.)
- Deming, Eugene W. (See Carr, Oma, assignor.)
- Deming, William L., Salem, Ohio. Cash-recording device. No. 1,299,689; Apr. 8; v. 261; p. 272.
- Deming, William M., Fairview, Mont. Animal-dosing device. No. 1,315,474; Sept. 9; v. 266; p. 193.
- Demirjian, John, Elyria, Ohio. Shoe-heel. No. 1,319,049; Oct. 21; v. 267; p. 352.
- Demont, Benoit, Paris, France. Air-cooled explosion-engine. No. 1,326,035; Dec. 23; v. 269; p. 651.
- Demory, Alexander F., assignor to Hagerstown Novelty Company, Inc., Hagerstown, Md. Tool for removing and replacing milk-bottle caps. No. 1,299,690; Apr. 8; v. 261; p. 273.
- Demountable Spring Tire Company. (See O'Neill, Charles A., assignor.)
- Dempsey, Arthur E., assignor to Callan Bros. Inc., New York, N. Y. Autotruck-Tire. No. 1,319,570; Oct. 21; v. 267; p. 451.
- Dempsey, James A., New York, N. Y. Hose-coupling. No. 1,298,303; Mar. 25; v. 260; p. 637.
- Dempsey, James E., Manitowoc, Wis. Control mechanism for headlights. No. 1,310,691; July 22; v. 264; p. 590.
- Dempsey, William A., Scranton, Pa., assignor to Draper Corporation, Hopedale, Mass. Automatic filling-replenishing loom. No. 1,310,793; July 22; v. 264; p. 610.
- Demuth, Alfred M., Chicago, Ill. Cooker. No. 1,323,028; Nov. 25; v. 268; p. 669.
- Demuth, Alfred M., San Francisco, Calif., assignor to J. A. Kelly, Chicago, Ill. Cooker. No. 1,308,485; July 1; v. 264; p. 87.
- Demuth, Alfred M., Chicago, Ill., assignor to U. S. Slicing Machine Company, Laporte, Ind. Work-holder for slicing-machines. No. 1,309,396; July 8; v. 264; p. 284.
- Demuth, John J., McIntire, Iowa. Basket reinforcement. No. 1,305,074; May 27; v. 262; p. 590.
- Denchaff, Peter, Akron, Ohio. Lock for motor-vehicles. No. 1,323,166; Nov. 25; v. 268; p. 695.
- Dencklau, Charles F., Los Angeles, Calif. Advertising attachment to wheel-rims. No. 1,309,464; July 8; v. 264; p. 297.
- Denemark, Jacob, Trenton, N. J. Cigarette-case. No. 1,305,699; June 3; v. 263; p. 89.
- Denes, Alexander, Brooklyn, assignor to The Wak Novelty Co., Inc., New York, N. Y. Doll-head. No. 1,309,190; July 8; v. 264; p. 246.
- Denes, Alexander, Brooklyn, assignor to The Wak Novelty Co., Inc., New York, N. Y. Doll-head. No. 1,309,191; July 8; v. 264; p. 246.
- Dengel, Frank R., et al. (See Rutz and Gauger, assignors.)
- Denio, William L., assignor of one-half to H. H. Simms, Rochester, N. Y. Record-cleaner. No. 1,296,779; Mar. 11; v. 260; p. 253.
- Denison, Frederick S., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn. Thermo circuit-closer. No. 1,290,928; Jan. 14; v. 258; p. 246.
- Denison, Julian F., New Haven, Conn., assignor to G. Piel, New York, N. Y. Gasoline-pump. No. 1,320,607; Nov. 4; v. 268; p. 47.
- Denizet, Felix, Perryville, Mo. Pneumatic water-elevator. No. 1,295,446; Feb. 25; v. 259; p. 663.
- Denman, Earl W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Revolving fan. No. 1,303,261; May 13; v. 262; p. 177.
- Denman, George, and E. F. Lewis, Terre Haute, Ind. Fuse. No. 1,294,880; Feb. 18; v. 259; p. 511.
- Denman, George E., Fruitvale, Calif. Pump. No. 1,322,483; Nov. 18; v. 268; p. 515.
- Denne, Mark T., Rushden, England. Sewing-machine. No. 1,301,400; Apr. 22; v. 261; p. 700.
- Denner, John H., Detroit, Mich. Mixer. No. 1,310,692; July 22; v. 264; p. 591.
- Dennert, Edward C., Detroit, Mich. Tractor. No. 1,320,535; Nov. 4; v. 268; p. 33.
- Dennes, Oscar L., Ardmore, Okla. Article-holder. No. 1,309,844; July 15; v. 264; p. 404.
- Dennette, Frederick, Hyde Park, Mass. Railway safety system. No. 1,308,002; June 24; v. 263; p. 611.
- Denney, Harrison A., Opportunity, Wash. Invalid-support. No. 1,315,097; Sept. 2; v. 266; p. 114.
- Denning, Ansel C., Johnson City, N. Y. Substitute material for making box-toes for shoes. No. 1,302,262; May 13; v. 262; p. 177.
- Denning, Patrick F., Cleveland, Ohio. Individual-towel holder. No. 1,298,910; Apr. 1; v. 261; p. 68.
- Denning, Patrick F., Cleveland, Ohio. Ornamental wind-wheel. No. 1,310,234; July 15; v. 264; p. 475.
- Dennington, Arthur R., East Orange, N. J., assignor to Westinghouse Lamp Company. Incandescent lamp. No. 1,313,857; Aug. 19; v. 265; p. 428.
- Dennington, Arthur R., East Orange, N. J., assignor to Westinghouse Lamp Company. Incandescent electric lamp. No. 1,319,853; Oct. 28; v. 267; p. 528.
- Dennis, Adam, Findlay, Ohio. Cuspidor-lifter. No. 1,299,141; Apr. 1; v. 261; p. 119.
- Dennis, Adolphus S., Cleveland, Ohio, assignor to Marchant Calculating Machine Company. Combined typewriter and calculating-machine. No. 1,309,276; July 8; v. 264; p. 262.
- Dennis, Adolphus S., Lakewood, Ohio, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,317,965; Oct. 7; v. 267; p. 58.
- Dennis, Arthur C., Glacier, British Columbia, Canada. Tunneling. No. 1,308,583; July 1; v. 264; p. 105.
- Dennis, Foresti E., Bloomdale, Ohio. Auxiliary shield for motor-vehicles. No. 1,322,412; Nov. 18; v. 268; p. 502.
- Dennis, Frank A., Flagstaff, Ariz. Clod-crusher. No. 1,291,750; Jan. 21; v. 258; p. 475.
- Dennis, Howard G., North Adams, Mich. Pruning-saw. No. 1,319,571; Oct. 21; v. 267; p. 451.
- Dennis, Hunter, Woodlake, Calif. Pulley. No. 1,305,526; June 3; v. 263; p. 56.
- Dennis, Louis M., Ithaca, N. Y. Manufacture of hydroxy compounds of aromatic hydrocarbons. No. 1,320,454; Nov. 4; v. 268; p. 18.
- Dennis, Oliver C., Wilmette, Ill. Electric vulcanizer. No. 1,301,233; Apr. 22; v. 261; p. 667.
- Dennis, Oliver C., Chicago, Ill. Electric vulcanizer. No. 1,309,845; July 15; v. 264; p. 405.
- Dennis, Samuel K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Fertilizer-distributor. No. 1,291,436; Jan. 14; v. 258; p. 363.
- Dennison Manufacturing Company. (See Scott, Henry F., assignor.)
- Denny, Chalmers, Sorento, Ill. Subsoil-plow. No. 1,295,281; Feb. 25; v. 259; p. 625.
- Denny, Claude W., London, England. Reinforced metal. No. 1,323,167; Nov. 25; v. 268; p. 695.
- Denny, Harry S. (See Bailey, Denny, and Norris.)
- Denny-Renton Clay & Coal Company. (See Adderson, James, and Cake, assignors.)
- Denny, Tecumseh G., Zanesville, Ohio. Window structure. No. 1,316,283; Sept. 16; v. 266; p. 355.
- Denovan, Robert A., Dalkeith, Ontario, Canada. Excavator. No. 1,301,918; Apr. 29; v. 261; p. 829.
- Denow, August W., Oshkosh, Wis. Storm-window operator. No. 1,322,765; Nov. 25; v. 268; p. 620.
- Dental Electric Company. (See Alden, Milton, assignor.)
- Dental Manufacturing Company, The. (See Goldman, Isldore, assignor.)
- Dentists' Supply Company, The. (See Whiteley, George H., Jr., assignor.)
- Denver Fire Clay Company, The. (See Lindsay, George W., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Clark, Omar E., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Leonard and Johnson, assignors.)
- Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Waugh, Daniel S., assignor.)
- Depco Cuber Company. (See Tuck, William W., assignor.)
- Deplanque, Anthime J. O., Paris, France. Gas-igniting apparatus. No. 1,295,130; Feb. 25; v. 259; p. 591.
- Depollier, Charles L., Brooklyn, N. Y. Watch. No. 1,292,441; Jan. 28; v. 258; p. 659.
- Depollier, Charles L., Brooklyn, N. Y. Watchcase, &c. No. 1,292,442; Jan. 28; v. 258; p. 659.
- Depollier, Charles L., Brooklyn, N. Y. Watchcase. No. 1,292,443; Jan. 28; v. 258; p. 659.
- Depollier, Charles L., Brooklyn, N. Y. Watch. No. 1,306,140; June 10; v. 263; p. 201.
- Depollier, Charles L., Brooklyn, N. Y. Watch. No. 1,322,547; Nov. 25; v. 268; p. 579.
- Deposited Metal Products Co. (See Siegel, Frederick, assignor.)
- Deppermann, William, assignor to S. S. Stafford, Inc., New York, N. Y. Pour-out for bottles. No. 1,310,405; July 15; v. 264; p. 506.
- Derby, Charles D., assignor to The Joyce-Cridland Company, Dayton, Ohio. Pawl. No. 1,314,735; Sept. 2; v. 266; p. 49.
- Derby, John H., New York, N. Y. Release-box. No. 1,312,895; Aug. 12; v. 265; p. 228.
- Derbyshire, Alfred E., Lansing, Kans. Box-car door. No. 1,300,130; Apr. 8; v. 261; p. 370.
- Deren, Bronislaw, Seymour, Conn. Trunk-lock. No. 1,321,605; Nov. 11; v. 268; p. 299.
- Derfield, Fernando J., Boise, Idaho. Valve-grinder. No. 1,325,835; Dec. 23; v. 269; p. 614.
- Derihon, Ernest, London, England. Internal-combustion engine. No. 1,298,468; Mar. 25; v. 260; p. 672.
- Derihon, Martin, Openshaw, Manchester, England. Shock-absorber for motor-cars and other vehicles. No. 1,290,115; Jan. 7; v. 258; p. 25.
- Derihon, Martin, Openshaw, Manchester, England. Shock-absorber for motor-cars and other vehicles. No. 1,290,116; Jan. 7; v. 258; p. 25.
- Derkson, Jacob F., Chinook, Mont. End-gate. No. 1,326,482; Dec. 30; v. 269; p. 771.
- Dermitt, Zachariah H., Buena Vista, Colo. Safety-hatpin. No. 1,325,836; Dec. 23; v. 269; p. 614.



- Derr, Charles E., Detroit, Mich. Gear-cutting machine. No. 1,290,929; Jan. 14; v. 258; p. 246.
- Derr, Charles E., assignor to Packard Motor Car Company, Detroit, Mich. Gear-cutting machine. No. 1,297,332; Mar. 18; v. 260; p. 405.
- Derr, Charles E., Detroit, Mich., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gear-cutting machine. No. 1,322,673; Nov. 25; v. 268; p. 602.
- Derrick, George H. (See Baker, Derrick, and Pruitt.)
- Dertouzos, Nickolas, Princeton, N. J. Filling-machine. No. 1,325,437; Dec. 16; v. 269; p. 522.
- Dery, Henry J., Detroit, Mich. Nut-lock. No. 1,299,691; Apr. 8; v. 261; p. 273.
- Des Barres, Aubrey H. H., New Glasgow, Nova Scotia, Canada. Game. No. 1,306,044; June 10; v. 263; p. 183.
- Des Isles, Leonard H., Chicago, Ill. Electrical thermometer system. No. 1,304,277; May 20; v. 262; p. 400.
- Des Jardins, Benjamin M., West Hartford, Conn., assignor, by mesne assignments, to J. T. Underwood, Brooklyn, N. Y. Computing attachment for type-writers. No. 1,302,464; Apr. 29; v. 261; p. 933.
- Des Jardins, Benjamin M., West Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writer adding-machine. No. 1,302,465; Apr. 29; v. 261; p. 934.
- Des Jardins, Benjamin M., West Hartford, Conn., assignor, by mesne assignments, of one-half to Underwood Computing Machine Company, New York, N. Y. Multiplication-machine. No. 1,325,625; Dec. 23; v. 269; p. 575.
- Des Moineaux, Alfred V., Denver, Colo. Detachable heel. No. 1,301,403; Apr. 22; v. 261; p. 700.
- Des Moineaux, Alfred V., Denver, Colo. Removable heel. No. 1,301,404; Apr. 22; v. 261; p. 700.
- Des Rocher, Alexander, Detroit, Mich. Condensation-return for vacuum heating systems. No. 1,299,142; Apr. 1; v. 261; p. 119.
- Des Roches, Arsene B., Providence, R. I., assignor to Liberty Carburetor Company. Vaporizer. No. 1,315,475; Sept. 9; v. 266; p. 193.
- Desch, Otto G., New York, assignor of one-half to C. E. Doty, Yonkers, N. Y. Tie-handling device. No. 1,291,437; Jan. 14; v. 258; p. 363.
- Desjardins, John, Marinette, Wis. Register. No. 1,325,438; Dec. 16; v. 269; p. 523.
- Deslauriers, Albert J., assignor to Deslauriers Column Mold Company, St. Paul, Minn. Column-mold. No. 1,291,781; Jan. 21; v. 258; p. 475.
- Deslauriers, Albert J., St. Paul, Minn., assignor, by mesne assignments, to The Guardian Savings & Trust Company, trustee. Adjustable capital-mold. No. 1,307,486; June 24; v. 263; p. 517.
- Deslauriers Column Mold Company. (See Deslauriers, Albert J., assignor.)
- Desmond, John E., Detroit, Mich. Engine-primer. No. 1,322,674; Nov. 25; v. 268; p. 602.
- Desmond, William C., Woodlawn, Ill. Punch and punch-holder. No. 1,291,640; Jan. 14; v. 258; p. 411.
- Desmond, William C., Chicago, Ill. Automatic mechanism for raising the covers of music-cabinets. No. 1,314,950; Sept. 2; v. 266; p. 87.
- Desrumaux, Henry, Paris, France. Filter. No. 1,318,363; Oct. 14; v. 267; p. 195.
- Dessauer, Frederick, Pittsburgh, Pa. Nut-lock. No. 1,300,131; Apr. 8; v. 261; p. 370.
- Dessauer, Frederick, Pittsburgh, Pa. Nut-lock. No. 1,300,132; Apr. 8; v. 261; p. 370.
- Dessez, Theodore H., West Haven, Conn. High-speed-spindle machine. No. 1,304,278; May 20; v. 262; p. 401.
- Desure, Samuel, New York, N. Y., assignor to D & D Electric Company. Sewing-machine drive. No. 1,295,131; Feb. 25; v. 259; p. 591.
- Det Norske Aktieselskab for elektrokemisk Industri, Norsk Industri-Hypotekbank. (See Ravner and Goldschmidt, assignors.)
- Det Norske Aktieselskab for Elektrokemisk Industri, Norsk Industri Hypotekbank. (See Sem, Mathias, assignor.)
- Detrick, Myron H., Chicago, Ill., assignor to M. H. Detrick Co., Chicago, Ill. Furnace-arch. No. 1,309,433; July 8; v. 264; p. 291.
- Detroit Accessories Corporation. (See Strickland, Silas A., assignor.)
- Detroit-Cadillac Motor Car Company. (See Zanes, Delaney D., assignor.)
- Detroit Dental Manufacturing Company. (See Carrier, Augustus, assignor.)
- Detroit Dental Manufacturing Company. (See Kerr, Mathew M., assignor.)
- Detroit Forging Company. (See Sears, Alfred J., assignor.)
- Detroit Fuse & Manufacturing Company. (See Ball and Zenker, assignors.)
- Detroit Fuse and Manufacturing Company. (See Pickareck, Joseph H., assignor.)
- Detroit Fuse & Manufacturing Company. (See Zenker, Fredrick, assignor.)
- Detroit Fuse & Mfg. Company. (See Blumberg and Horton, assignors.)
- Detroit Lubricator Company. (See Blanchard, Frederick C., assignor.)
- Detroit Mechanical Engineering Company. (See Lavigne, Joseph P., assignor.)
- Detroit Motor Governor Corporation. (See Redmond, Charles A., assignor.)
- Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
- Detroit Steam Motors Corporation. (See Reagan, Edgar U. G., assignor.)
- Detroit Stove Works. (See Miller, Robert H., assignor.)
- Detroit Stove Works. (See Schall and Davenport, assignors.)
- Detterbach, Samuel E., et al. (See Oiler, Frank E., assignor.)
- Detting, Joseph J., and E. A. Tinsman, Akron, Ohio. Producing leggings. No. 1,309,118; July 8; v. 264; p. 233.
- Dettmann, F. O. (See Putsch, August, assignor.)
- Dettmer, Erwin B. E., Chicago, Ill. Pipe-coupling. No. 1,295,132; Feb. 25; v. 259; p. 591.
- Detweiler, Joshua B., Goshen, Ind. Toy. No. 1,318,327; Oct. 7; v. 267; p. 128.
- Detwiler, Forest V., Pottstown, Pa. Hydrocarbon-burner. No. 1,303,866; May 20; v. 262; p. 325.
- Deubener, Walter H., St. Paul, Minn. Bag. No. 1,305,198; May 27; v. 262; p. 614.
- Deubener, Walter H., St. Paul, Minn. Bag. No. 1,305,199; May 27; v. 262; p. 614.
- Deuel, Clyde C., Kansas City, Mo. Rotary engine. No. 1,317,909; Oct. 7; v. 267; p. 47.
- Deuring, William, Cleveland, Ohio. Gage. No. 1,301,234; Apr. 22; v. 261; p. 667.
- Deuse, William F. (See Porter, Harry G., assignor.)
- Deutsch, Edward I., Cincinnati, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,308,229; July 1; v. 264; p. 41.
- Deutsch, Edward I., North Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor-controller. No. 1,309,797; July 15; v. 264; p. 396.
- Deutsch, Isidor, Cincinnati, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Contact-finger and base. No. 1,315,950; Sept. 16; v. 266; p. 293.
- Deutsch, Simon, and E. L. Gross, Chicago, Ill. Mechanism for operating gates, doors, or other closures. No. 1,311,113; July 22; v. 264; p. 603.
- Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft). (See Skaupe, Franz, assignor.)
- Deutsche Gasglühlichtaktiengesellschaft (Auergesellschaft). (See Polotsky, Abraham, assignor.)
- Deutsche-Luxemburgische Bergwerks-und Hutten-Aktiengesellschaft. (See Brusch and Beyer, assignors.)
- Devereux, James H. (See Woodworth, Joseph V., assignor.)
- Devers, Clyde E., assignor to The McCaskey Register Company, Incorporated in 1914, Alliance, Ohio. Cost-recording appliance. No. 1,312,684; Aug. 12; v. 265; p. 187.
- Devers, Philip K., Jr., Lynn, Mass., assignor to General Electric Company. Incandescent arc-lamp. No. 1,290,930; Jan. 14; v. 258; p. 246.
- Devers, Philip K., Jr., Lynn, Mass., assignor to General Electric Company. Inclosed-arc device. No. 1,310,067; July 15; v. 264; p. 445.
- Devey, John Lehi, assignor of two-thirds to Utah Idaho Sugar Co., Salt Lake City, Utah. Beet-harvesting machine. No. 1,299,825; Apr. 8; v. 261; p. 304.
- Devine Mfg. Co. (See Devine, William P., assignor.)
- Devine, William P., Dorchester, Mass. Shoe-button. No. 1,292,588; Jan. 28; v. 258; p. 695.
- Devine, William P., Dorchester, assignor to Devine Mfg. Co., Inc., Boston, Mass. Watch-protector. No. 1,313,798; Aug. 19; v. 265; p. 417.
- Devlin, Cathleen, Providence, R. I. Stove-polish. No. 1,304,163; May 20; v. 262; p. 379.
- Devlin, Francis X., Chicago, Ill. Oil-cap. No. 1,311,327; July 29; v. 264; p. 742.
- Devlin, Thomas F., Philadelphia, Pa. Expansion-bolt. No. 1,302,324; Apr. 29; v. 261; p. 906.
- Dewald, Edward, Jr. (See Dewald, Edward, Sr., assignor.)
- Dewald, Edward, Sr., assignor of one-half to E. Dewald, Jr., Cincinnati, Ohio. Swivel-plug connector. No. 1,316,561; Sept. 23; v. 266; p. 456.
- Dewey, Byron L., Detroit, Mich. Resilient wheel. No. 1,306,176; June 10; v. 263; p. 208.
- Dewey Davenport Company. (See Dewey, Josiah A., assignor.)
- Dewey Davenport Company. (See Murphy, William L., assignor.)
- Dewey, Ellsworth A., Washington, D. C. Excavating-machine. No. 1,299,826; Apr. 8; v. 261; p. 304.
- Dewey, Frank E., Pasadena, Cal. Removable seat-back. No. 1,292,270; Jan. 21; v. 258; p. 596.
- Dewey, Haywood G., Westminster, assignor to J. Brandt, Baltimore, Md. Cotton-chopper. No. 1,300,133; Apr. 8; v. 261; p. 370.
- Dewey, Haywood G., Rochester, N. Y., assignor to J. Brandt, Baltimore, Md. Rotatable chopper-head. No. 1,302,015; Apr. 29; v. 261; p. 848.



## Alphabetical list of patentees—Continued.

- Dewey, Haywood G., assignor to Fred H. Knapp Company, Westminster, Md. Labeling-machine. No. 1,316,225; Sept. 16; v. 266; p. 344.
- Dewey, Josiah A., assignor to Dewey Davenport Company, San Francisco, Calif. Couch-bed. No. 1,302,774; May 6; v. 262; p. 55.
- Dewey, Josiah A., assignor to Dewey Davenport Company, San Francisco, Calif. Sofa-bed. No. 1,321,606; Nov. 11; v. 268; p. 299.
- Dewey, Bradley, assignor to American Sheet & Tin Plate Company, Pittsburgh, Pa. Treating coated metals. No. 1,297,807; Mar. 18; v. 260; p. 506.
- Dewey, William F., Kansas City, Mo. Burner and stove construction. No. 1,312,108; Aug. 5; v. 265; p. 48.
- Dewhurst, John H., Attercliffe, Sheffield, England. Method of and appliance for stripping ingots from ingot-molds. No. 1,323,255; Dec. 2; v. 269; p. 6.
- Dewitt, Sarah S., Gallipolis, Ohio. Hand-loom for making hair goods. No. 1,315,912; Sept. 9; v. 266; p. 272.
- Dewson, Edward H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electrically-controlled pneumatic brake. No. 1,299,144; Apr. 1; v. 261; p. 120.
- Dewson, Edward H., New York, and T. R. Brown, Sparkill, N. Y. Car and electric coupling. No. 1,290,117; Jan. 7; v. 258; p. 25.
- Dexter, Bayard P. (See Dexter, Fred A. and B. P.)
- Dexter, Charles N., Mitcham, England. Spectacle, eyeglass, and like case. No. 1,298,725; Jan. 28; v. 258; p. 727.
- Dexter Folder Company. (See Christophel, Carl E., assignor.)
- Dexter Folder Company. (See Meredith, Ross, assignor.)
- Dexter Folder Company. (See Perry, John R., assignor.)
- Dexter, Frank R., Dayton, Ohio. Automatic blow-off device. No. 1,294,061; Feb. 11; v. 259; p. 284.
- Dexter, Fred A. and B. P., assignors to The Leavitt Machine Company, Orange, Mass. Facing-tool for dressing valve-seats, &c. No. 1,325,278; Dec. 16; v. 269; p. 494.
- Dexter, Irven H., Pearl River, N. Y., assignor to I. H. Dexter Company, Inc. Clutch. No. 1,321,607; Nov. 11; v. 268; p. 300.
- Dexter, MacDougald, Columbus, Ga. Auxiliary control for pressure-regulators. No. 1,301,405; Apr. 22; v. 261; p. 700.
- Dey, Harry E., Jersey City, N. J. Driving-wheel for automobiles and other vehicles. No. 1,321,898; Nov. 18; v. 268; p. 405.
- Deyo, Mark R., Bradford, Ill. Culvert. No. 1,298,021; Mar. 25; v. 260; p. 577.
- Dezendorf, Richard L., Richmond Hill, N. Y. Means for testing meters. No. 1,306,657; June 10; v. 263; p. 299.
- Dezendorf, Richard L., Richmond Hill, N. Y. Means for testing gas-meters. No. 1,306,658; June 10; v. 263; p. 299.
- Dezendorf, Richard L., Richmond Hill, N. Y. Means for testing gas-meters. No. 1,306,659; June 10; v. 263; p. 300.
- Dezendorf, Richard L., Richmond Hill, N. Y. Testing gas-meters. No. 1,306,660; June 10; v. 263; p. 300.
- Di Falco, Raymond, and J. D. Paul, Ellwood City, Pa. Automatic injection-syringe. No. 1,320,536; Nov. 4; v. 268; p. 34.
- Di Giorgio, Joseph, Cambridge, Mass. Sanitary stringer attachment for confection-machines. No. 1,306,216; June 10; v. 263; p. 215.
- Di Maio, Simone, New York, N. Y. Ruling attachment for triangles. No. 1,313,168; Aug. 12; v. 265; p. 283.
- Di Mario, Alberto, Bannock, Ohio. Car-replacer. No. 1,316,879; Sept. 23; v. 266; p. 515.
- Di Rebaylio, Leo. (See Frank, Leopold H., assignor.)
- Di Salvio, Antonio, Washington, Pa. Hair-cleaning device. No. 1,308,685; July 1; v. 264; p. 124.
- Di Sante, Vito, Wichita, Kans. Air-filter. No. 1,319,572; Oct. 21; v. 267; p. 452.
- Di Sante, Vito, Wichita, Kans. Air-filter. No. 1,319,573; Oct. 21; v. 267; p. 452.
- Di Sante, Vito, Wichita, Kans. Air-filter. No. 1,319,574; Oct. 21; v. 267; p. 452.
- Diadem Manufacturing Company. (See Thorndike, Herbert A., assignor.)
- Diamond Calk Horse Shoe Co. (See Lindberg, George E., assignor.)
- Diamond, George, Milwaukee, Wis. Paper-box member. No. 1,310,006; July 15; v. 264; p. 434.
- Diamond, George, Milwaukee, Wis. Paper box. No. 1,315,476; Sept. 9; v. 266; p. 194.
- Diamond Individual Towel System Co. (See Ammann, Henry A., assignor.)
- Diamond, James E., Cleveland, Ohio. Internal-combustion engine. No. 1,311,213; July 29; v. 264; p. 720.
- Diamond Match Company, The. (See Donnelly, Joseph C., assignor.)
- Diamond Match Company, The. (See Fairburn and Crusier, assignors.)
- Diamond Match Company, The. (See Kolsky, George, assignor.)
- Diamond Match Company, The. (See Le Sueur, Ernest A., assignor.)
- Diamond Match Company, The. (See Paridon, Michael, assignor.)
- Diamond Match Company, The. (See Pfersch, Clarence L., assignor.)
- Diamond Match Company, The. (See Piper, Charles A., assignor.)
- Diamond Match Company, The. (See Reeve, James H., assignor.)
- Diamond Match Company, The. (See Stafford, William E., assignor.)
- Diamond Match Company, The. (See Wright, Jacob P., assignor.)
- Diamond Match Company, The. (See Wright and Carlson, assignors.)
- Diamond, Meyer, Brooklyn, N. Y. Nail-puller. No. 1,317,156; Sept. 30; v. 266; p. 604.
- Diamond Power Specialty Company. (See Magee, John, assignor.)
- Diamond Stamping Works Company, The. (See Koren and Clark, assignors.)
- Diana, Salvatore, Chicago, Ill. Necktie. No. 1,294,062; Feb. 11; v. 259; p. 285.
- Diaphone Signal Company Limited, The. (See Sims, Frederick L. H., assignor.)
- Dibble, Frank D., Muskogee, Okla. Ship-protecting device. No. 1,310,326; July 15; v. 264; p. 492.
- Dibble, Frank Y., Oakland, Calif. Triple valve. No. 1,303,263; May 13; v. 262; p. 177.
- Dibble, Alphonse A. (See Barro, Anthony F., assignor.)
- Dibovsky, Victor V., Kingsway, London, England. Machine-gun. No. 1,298,911; Apr. 1; v. 261; p. 68.
- Dibovsky, Victor V., Kingsway, London, England. Buffering device for machine-guns. No. 1,298,912; Apr. 1; v. 261; p. 68.
- Dibovsky, Victor V., Kingsway, London, England. Machine-gun. No. 1,298,913; Apr. 1; v. 261; p. 68.
- Dicarlo, Joseph, Kalamazoo, Mich. Walking drill or planter. No. 1,298,674; Apr. 1; v. 261; p. 11.
- Dick, Archibald H., Schenectady, N. Y. Spark-arrester. No. 1,322,768; Nov. 25; v. 268; p. 620.
- Dick, Burns, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Relay. No. 1,312,522; Aug. 12; v. 265; p. 155.
- Dick, Harvey H. (See Phillips and Dick.)
- Dick, James E., Denver, Colo. Hand-transit. No. 1,308,050; July 1; v. 264; p. 8.
- Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Conveyor. No. 1,293,050; Feb. 4; v. 259; p. 18.
- Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Pipe-clamp. No. 1,293,051; Feb. 4; v. 259; p. 19.
- Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Fodder-cutter feed mechanism. No. 1,296,485; Mar. 4; v. 260; p. 149.
- Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Fodder-cutter feed conveyor. No. 1,296,486; Mar. 4; v. 260; p. 149.
- Dick, Levi R. H., Chicago, Ill. Water-closet seat. No. 1,293,364; Feb. 4; v. 259; p. 91.
- Dick, Ralph H., and P. W. Wigginton, assignors to The Safe Cabinet Co., Marietta, Ohio. Heat-resisting cabinet. No. 1,325,624; Dec. 23; v. 269; p. 575.
- Dick, Samuel M., Minneapolis, Minn. Automatic air-brake-hose coupling. No. 1,295,282; Feb. 25; v. 259; p. 625.
- Dick, Samuel M., assignor of one-half to F. E. Mick, Minneapolis, Minn. Evaporating apparatus. No. 1,298,470; Mar. 25; v. 260; p. 672.
- Dick, William, Hamilton, Newcastle, New South Wales, Australia. Glass-washing apparatus. No. 1,317,553; Sept. 30; v. 266; p. 680.
- Dickens, John W., Fort Wayne, Ind. Fish-bait. No. 1,299,432; Apr. 8; v. 261; p. 213.
- Dickerson, Robert C., assignor of one-fourth to W. E. Winston and one-fourth to J. M. Butler, Akron, Ohio. Trolley-guard. No. 1,314,130; Aug. 26; v. 265; p. 514.
- Dickerson, Arthur, Salt Lake City, Utah, assignor to Dickerson Engine Company. Internal-combustion engine. No. 1,304,744; May 27; v. 262; p. 529.
- Dickerson, Arthur, assignor of twenty-two and one-half one-hundredths to J. Lippman, twenty-two and one-half one-hundredths to S. Spiro, twenty-two and one-half one-hundredths to N. M. Ambrose, ten one-hundredths to H. A. Lee, and one one-hundredth to A. J. Paulson, Salt Lake City, Utah. Internal-combustion engine. No. 1,293,726; Feb. 11; v. 259; p. 205.
- Dickerson Engine Company. (See Dickerson, Arthur, assignor.)
- Dickerson, Ernest N. (See Stewart and Dickerson.)
- Dickerson, Glenn H., and Hamilton, assignors to The Dickerson Glue Jointer Company, Grand Rapids, Mich. Shifting mechanism for board-jointing machines. No. 1,318,851; Oct. 14; v. 267; p. 288.
- Dickerson Glue Jointer Company, The. (See Dickerson and Hamilton, assignors.)
- Dickerson, Herbert M., assignor of twenty-two and one-half one-hundredths to C. S. Wigginton and seventy-seven and one-half one-hundredths to A. C. Froelich, Evansville, Ind. Oil-gage signal and circuit-breaker. No. 1,305,963; June 3; v. 263; p. 139.



- Dickerson, Malcolm, assignor to A. Hollander & Son, Newark, N. J. Fur-dyeing machine. No. 1,317,007; Sept. 23; v. 266; p. 539.
- Dickerson, Raymond L., assignor of one-third to A. S. Jones, Spokane, Wash., and one-third to W. J. Michelet, Portland, Ore. Motor-vehicle. No. 1,298,022; Mar. 25; v. 260; p. 577.
- Dickerson, Raymond L., assignor of one-third to A. S. Jones, Spokane, Wash., and one-third to W. J. Michelet, Portland, Ore. Motor-vehicle. No. 1,307,622; June 24; v. 263; p. 541.
- Dickerson, Raymond L., assignor of one-third to A. S. Jones, Spokane, Wash., and one-third to W. J. Michelet, Portland, Ore. Vehicle-coupling. No. 1,314,577; Sept. 2; v. 266; p. 20.
- Dickerson, Walter H., Muskegon, Mich. Manufacture of adhesives or binders. No. 1,290,118; Jan. 7; v. 258; p. 26.
- Dickey, Arthur V., Seattle, Wash. Spraying apparatus. No. 1,300,823; Apr. 15; v. 261; p. 544.
- Dickey, Charles T., Elizabeth, assignor to J. J. Voorhees, Jr., Jersey City, N. J. Apparatus for producing waterproof felt. No. 1,315,763; Sept. 9; v. 266; p. 243.
- Dickey, Charles T., Elizabeth, assignor to J. J. Voorhees, Jr., Jersey City, N. J. Making tires. No. 1,325,465; Dec. 16; v. 269; p. 527.
- Dickey, Edmund S., Baltimore county, Md., assignor to American Meter Company, Inc., New York, N. Y. Gas-meter. No. 1,301,041; Apr. 15; v. 261; p. 591.
- Dickey, Edmund S., Baltimore county, Md., assignor to American Meter Company, Inc., New York, N. Y. Gas-meter. No. 1,305,646; June 3; v. 263; p. 79.
- Dickey, Edmund S., Baltimore county, Md., assignor to American Meter Company, Inc., New York, N. Y. Gas-meter. No. 1,306,217; June 10; v. 262; p. 216.
- Dickey, Edmund S., Baltimore county, Md., assignor to American Meter Company, Inc., New York, N. Y. Gas-meter. No. 1,306,218; June 10; v. 263; p. 216.
- Dickey, Edmund S., Baltimore county, Md., assignor to American Meter Company, Inc., New York, N. Y. Gas-meter. No. 1,306,219; June 10; v. 263; p. 216.
- Dickey, Edmund S., Baltimore county, Md., assignor to American Meter Company, Inc., New York, N. Y. Guide for dry-type-gas-meter valves. No. 1,306,220; June 10; v. 263; p. 217.
- Dickey, Edwin M., Youngstown, Ohio. Flushing device. No. 1,323,580; Dec. 2; v. 269; p. 67.
- Dickey, Franklin, Indianapolis, Ind. Air-heater for internal-combustion engines. No. 1,310,412; July 22; v. 264; p. 540.
- Dickey, Thomas F. (See Fries and Dickey.)
- Dickey, William F., Newport, N. H. Liquid-dispensing device. No. 1,322,881; Nov. 25; v. 268; p. 641.
- Dickhaut, Stephen J., assignor to The Martin Cantine Company, Saugerties, N. Y. Printer's overlay and underlay board and making same. No. 1,324,038; Dec. 9; v. 269; p. 197.
- Dickie, E. W. (See Higbee, Charlie D., assignor.)
- Dickie, Frank E. (See Acton, Dickie, and Pratt.)
- Dickie, George A., Raymond, Wash. Planer for the surfaces of ships. No. 1,294,426; Feb. 18; v. 259; p. 405.
- Dickinson, Dean D., Ayr, N. D. Mud-lug attachment to vehicle-wheels. No. 1,295,710; Feb. 25; v. 259; p. 725.
- Dickinson, Fairleigh S., Rutherford, N. J. Valveless syringe. No. 1,307,245; June 17; v. 263; p. 439.
- Dickinson, Frank T., Toledo, Ohio. Brake-shoe. No. 1,308,402; July 1; v. 264; p. 72.
- Dickinson, Fredrick S., New York, N. Y. Constructing pneumatic tires. No. 1,294,063; Feb. 11; v. 259; p. 285.
- Dickinson, Fredrick S., New York, N. Y. Pneumatic tire. No. 1,294,427; Feb. 18; v. 259; p. 405.
- Dickinson, Fredrick S., New York, N. Y. Constructing pneumatic tires. No. 1,315,364; Sept. 9; v. 266; p. 173.
- Dickinson, Harold, Fennville, Mich. Auxiliary attachment for riding-cultivators. No. 1,323,029; Nov. 25; v. 268; p. 669.
- Dickinson, Harry E., San Antonio, Tex. Adjustable split lock-nut or union. No. 1,323,967; Dec. 2; v. 269; p. 140.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Wheeled plow. No. 1,300,824; Apr. 15; v. 261; p. 544.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Caster-wheel lock for agricultural implements. No. 1,302,016; Apr. 29; v. 261; p. 848.
- Dickinson, Harry S., assignor to Moline Plow Company. Moline, Ill. Tractor connection for harvesting-machines. No. 1,302,325; Apr. 29; v. 261; p. 906.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Seed-planter. No. 1,303,264; May 13; v. 262; p. 178.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Wheeled plow. No. 1,316,694; Sept. 23; v. 266; p. 482.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Agricultural implement. No. 1,316,695; Sept. 23; v. 266; p. 482.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Wheel-adjusting mechanism for agricultural implements. No. 1,316,696; Sept. 23; v. 266; p. 482.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Driving-gearing for seed-discharging mechanism. No. 1,316,697; Sept. 23; v. 266; p. 482.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Wheel-plow. No. 1,316,698; Sept. 23; v. 266; p. 483.
- Dickinson, Harry S., assignor to Moline Plow Company. Moline, Ill. Wheeled plow. No. 1,318,978; Oct. 14; v. 267; p. 313.
- Dickinson, Harry S., assignor to Moline Plow Company. Moline, Ill. Lister plow or planter. No. 1,318,979; Oct. 14; v. 267; p. 313.
- Dickinson, Harry S., Moline, Ill., assignor to Moline Plow Company. Lister-planter. No. 1,319,854; Oct. 28; v. 267; p. 528.
- Dickinson, Joel, Newark, N. J. Die for forging projectiles and the like. No. 1,309,247; July 8; v. 264; p. 257.
- Dickinson, Joseph H., Cranford, N. J., assignor to The Aeolian Company. Record-repeating device for phonographs. No. 1,300,135; Apr. 8; v. 261; p. 371.
- Dickinson, Joseph H., Cranford, N. J., assignor to Aeolian Company, New York, N. Y. Combined talking-machine and piano. No. 1,314,578; Sept. 2; v. 266; p. 20.
- Dickinson, Joseph W., Cranford, N. J., assignor to Schubert Piano Company, New York, N. Y. Pedal for player-pianos. No. 1,319,050; Oct. 21; v. 267; p. 352.
- Dickinson, Raymond A., Barker, N. Y. Scrubbing-machine. No. 1,294,881; Feb. 18; v. 259; p. 511.
- Dickinson, Raymond L., Richmond, Calif. Variable-speed transmission. No. 1,302,775; May 6; v. 262; p. 55.
- Dickinson, Raymond S., Los Angeles, Calif., assignor of one-half to W. W. Stryker, Duellen, N. J. Internal-combustion engine. No. 1,315,288; Sept. 9; v. 266; p. 159.
- Dickinson, William H., et al. (See McKeever, Charles, assignor.)
- Dickinson, William J., Erith, and A. H. Stark, Leytonstone, England. Motive-power means for utilizing the energy of air-currents. No. 1,312,021; Aug. 5; v. 265; p. 32.
- Dickinson, William W., Jr., Little Rock, Ark. Apparatus for burning brick. No. 1,305,447; June 3; v. 263; p. 41.
- Dickman, Smith V., Shavertown, N. Y. Speed-changing transmission mechanism and brake. No. 1,296,371; Mar. 4; v. 260; p. 125.
- Dickow, Fred C., Chicago, Ill. Index-center or the like. No. 1,321,291; Nov. 11; v. 268; p. 240.
- Dicks, Thomas A., Wilkinsburg, Pa. Guard for machine-tools. No. 1,301,042; Apr. 15; v. 261; p. 591.
- Dicks, Thomas A., Wilkinsburg, Pa. Centrifugal casting apparatus. No. 1,314,512; Sept. 2; v. 266; p. 7.
- Dicks, William H., et al. (See Goldthorpe, Edwin T., assignor.)
- Dickson, Alexander, Brooklyn, N. Y. Wall-corner construction and stud. No. 1,294,064; Feb. 11; v. 259; p. 285.
- Dickson, Alexander, Brooklyn, N. Y. Wall construction. No. 1,301,110; Apr. 22; v. 261; p. 641.
- Dickson, Frank T., Baltimore, Md. Toy. No. 1,321,899; Nov. 18; v. 268; p. 405.
- Dickson, Fremont, Sonora, Calif. Resilient wheel. No. 1,304,164; May 20; v. 262; p. 379.
- Dickson, George E., Chicago, Ill. Weatherproof nail. No. 1,315,477; Sept. 9; v. 266; p. 194.
- Dickson, Henry C., Birmingham, England. Tube, stay, strut, and like element. No. 1,306,952; June 17; v. 263; p. 386.
- Dickson, James T., assignor to F. C. Kingston, Los Angeles, Calif. Pop-valve. No. 1,305,964; June 3; v. 263; p. 139.
- Dickson, John W., Dallas, Tex. Turnbuckle and cable-head. No. 1,305,590; June 3; v. 263; p. 70.
- Dickson, John W., Dallas, Tex. Cable-head. No. 1,305,591; June 3; v. 263; p. 70.
- Dickson, Robert B., West Point, Miss. Artificial limb. No. 1,294,632; Feb. 18; v. 259; p. 453.
- Dieop, Leon, Levallois-Perret, France. Shearing, cutting, nipping, punching, and the like tool. No. 1,317,758; Oct. 7; v. 267; p. 19.
- Dictograph Products Corporation. (See Lehman, Charles H., assignor.)
- Dictograph Products Corporation. (See Scher, Louis, assignor.)
- Didlake, William H., Crystal Springs, Miss. Railway rolling-stock and appurtenance thereto. No. 1,293,727; Feb. 11; v. 259; p. 205.
- Dieball, Otto. (See Skibbe and Dieball.)
- Diebold, Emil, Ennetbaden, Switzerland. Braiding-machine. No. 1,296,271; Mar. 4; v. 260; p. 104.
- Diebold, Fritz, Zurich, Switzerland. Producing dispersed systems. No. 1,295,283; Feb. 25; v. 259; p. 625.
- Diebolt, Charles S. (See Winter and Diebolt.)
- Dieckman, John C. (See Lee and Dieckman.)
- Dieckmann, Edward H., Florissant, Mo. Tractor. No. 1,324,309; Dec. 9; v. 269; p. 249.
- Diederichs, William J., Ithaca, N. Y. Treating iron. No. 1,325,626; Dec. 23; v. 269; p. 575.
- Diehl, Frank, Wabash, Ind. Glue-machine. No. 1,317,620; Sept. 30; v. 266; p. 692.



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- Diehl, John J., Boston, Mass. Recording-machine. No. 1,323,846; Dec. 2; v. 269; p. 117.
- Diehl Manufacturing Co. (See Hertz and Marx, assignors.)
- Diehl, William E., Chicago, Ill. Safety-pocket. No. 1,296,168; Mar. 4; v. 260; p. 82.
- Diem-Beutler, Ida, St. Gallen, Switzerland. Embroidering-machine. No. 1,299,145; Apr. 1; v. 261; p. 120.
- Dierker, Ernst T. (See Bimeler and Dierker.)
- Dierkes, Robert H., St. Louis, Mo. Bin. No. 1,317,274; Sept. 30; v. 266; p. 626.
- Dierks, John, San Francisco, Calif. Student's desk. No. 1,301,406; Apr. 22; v. 261; p. 701.
- Diers, Peter M. (See Wennerblad, Einar G., assignor.)
- Diesbach, Fritz G., administrator. (See Krauth, Albert.)
- Diescher, Samuel E., Pittsburgh, Pa. Machine for cleaning tin plates. No. 1,318,483; Oct. 14; v. 267; p. 218.
- Diete, Gustave, Chicago, Ill. Bearing device. No. 1,291,438; Jan. 14; v. 258; p. 364.
- Dieter, Louis F., Buffalo, N. Y. Method of and means for rolling or forming car-wheels or other circular bodies. No. 1,319,141; Oct. 21; v. 267; p. 369.
- Dieter, Louis F., Buffalo, N. Y. Method of and apparatus or mill for rolling or forming car-wheels or other circular bodies. No. 1,319,142; Oct. 21; v. 267; p. 369.
- Dieter, Louis F., Buffalo, N. Y. Method of and apparatus or mill for rolling or forming dished car-wheels or other circular bodies. No. 1,319,143; Oct. 21; v. 267; p. 370.
- Dieter, William, Brooklyn, N. Y. Torpedo and submerged launching-tube. No. 1,316,284; Sept. 16; v. 266; p. 355.
- Dieter, William, Brooklyn, N. Y. Torpedo-finder. No. 1,319,051; Oct. 21; v. 267; p. 352.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Step-bearing. No. 1,294,633; Feb. 18; v. 259; p. 453.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Automobile torpedo. No. 1,303,038; May 6; v. 262; p. 106.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Automobile torpedo. No. 1,303,039; May 6; v. 262; p. 107.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Automobile torpedo. No. 1,303,044; May 6; v. 262; p. 107.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Starting-valve for torpedoes. No. 1,303,045; May 6; v. 262; p. 108.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscopic steering mechanism. No. 1,318,980; Oct. 14; v. 267; p. 313.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Stop and relief valve for automobile torpedoes. No. 1,319,992; Oct. 28; v. 267; p. 553.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Oilier for automobile torpedoes. No. 1,319,993; Oct. 28; v. 267; p. 554.
- Dieter, William, assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscopic mechanism. No. 1,322,232; Nov. 18; v. 268; p. 467.
- Dieterich, Albert E., Washington, D. C. Cup-pastry-making machine. No. 1,294,634; Feb. 18; v. 259; p. 453.
- Dieterich, Albert E., Washington, D. C. Cup-pastry-making machine. No. 1,294,635; Feb. 18; v. 259; p. 453.
- Dieterich, Albert E., Washington, D. C. Extracting cones from their baking-molds. No. 1,312,239; Aug. 5; v. 265; p. 72.
- Dieterich, Edward A., New York, N. Y. Mechanical display device. No. 1,323,968; Dec. 2; v. 269; p. 140.
- Dieterich, Edward A., New York, N. Y. Brake mechanism. No. 1,324,734; Dec. 9; v. 269; p. 330.
- Dieterle, Edward A., and S. D. Semenow, assignors to The Koppers Company, Pittsburgh, Pa. Purification of liquids. No. 1,323,256; Dec. 2; v. 269; p. 6.
- Dietrich, Carl A., St. Louis, Mo. Ring-oiling device for loose pulleys, gears, &c. No. 1,306,753; June 17; v. 263; p. 349.
- Dietrich, Henry C., assignor to Crescent Stove Works, Evansville, Ind. Damper for combination coal and gas ranges. No. 1,304,665; May 27; v. 262; p. 514.
- Dietrich, Henry J., Los Angeles, Calif. Foldable camp kit. No. 1,304,279; May 20; v. 262; p. 401.
- Dietrich, Julius F., Kennewick, Wash. Casein-drying apparatus. No. 1,313,939; Aug. 26; v. 265; p. 478.
- Dietrichs, Charles, Little Ferry, N. J. Wall structure. No. 1,312,309; Aug. 5; v. 265; p. 85.
- Dietsche, Adolph, Forest Hills, assignor to American Lithographic Company, New York, N. Y. Display-carton. No. 1,313,585; Aug. 19; v. 265; p. 379.
- Dietz, Carl F. (See Jeppson and Dietz.)
- Dietz, Edward H., Aumsville, Oreg. Fire-escape. No. 1,296,952; Mar. 4; v. 260; p. 54.
- Dietz, Emil, Indianapolis, Ind. Mailing money-carrier. No. 1,291,439; Jan. 14; v. 258; p. 364.
- Dietz, Louis E., Cincinnati, Ohio. Washing-machine pounder. No. 1,302,326; Apr. 29; v. 261; p. 906.
- Dietz, Uriah, Bangor, Pa. Rail-holding means. No. 1,307,085; June 17; v. 263; p. 411.
- Diffenbaugh, William A. (See Allan, Allen C., assignor.)
- Diffendall, Walter H., Hagerstown, Md., assignor, by mesne assignments, to The Liberty Tool Company. Stay-bolt-heading attachment for pneumatic hammers, &c. (Reissue.) No. 14,606; Mar. 11; v. 260; p. 371.
- Dijkstra, Richard, Chicago, Ill. Thermal circuit-closer. No. 1,307,086; June 17; v. 263; p. 411.
- Dikeman, Myron J., Detroit, Mich. Mechanical device for turning automobiles. No. 1,320,745; Nov. 4; v. 268; p. 72.
- Diks, Petrus M., and M. van den Heuvel, Uden, Netherlands. Machine for automatically binding the head ends of straw cases. No. 1,323,169; Nov. 25; v. 268; p. 696.
- Dilg, Charles H. J., New York, N. Y. Guard for rotary fans and the like. No. 1,290,721; Jan. 7; v. 258; p. 172.
- Dilg, Charles H. J., New York, N. Y. Roll for polishing-machines. No. 1,323,969; Dec. 2; v. 269; p. 140.
- Dilks, Charles F., assignor of one-half to I. W. Goldberg, Bridgeton, N. J. Tension-testing device for sewing-machine threads. No. 1,305,780; June 3; v. 263; p. 104.
- Dilks, Charles F., assignor of one-half to I. W. Goldberg, Bridgeton, N. J. Needle for talking-machines. No. 1,317,671; Sept. 30; v. 266; p. 702.
- Dilks, Charles W., Plainfield, N. J. Game apparatus. No. 1,325,355; Dec. 16; v. 269; p. 508.
- Dilks, James J., Philadelphia, Pa. Machine for securing reinforcing-bands to film-strips. No. 1,294,882; Feb. 18; v. 259; p. 512.
- Dill, Bert C., Sargent county, N. D. Driving mechanism for grain binders and harvesters. No. 1,306,806; June 17; v. 263; p. 359.
- Dill, Enoch P., Pittsburg, Kans. Automobile-tire remover. No. 1,317,078; Sept. 23; v. 266; p. 553.
- Dillard, William J., and J. D. Taylor, Portland, Oreg. Automatic weather-strip. No. 1,313,799; Aug. 19; v. 265; p. 418.
- Diller, Samuel, Des Moines, Iowa. Storage battery. No. 1,308,230; July 1; v. 264; p. 41.
- Diller, William H. (See Luedke, Gustav P., assignor.)
- Dilley, Edward F., Henning, Ill. Concrete post. No. 1,296,053; Mar. 4; v. 260; p. 54.
- Dilley, Phillip W., Seaview, Wash. Cranberry-harvester. No. 1,302,531; May 6; v. 262; p. 10.
- Dillmann, Edward, et al., trustees. (See Bobroff, Bornett L., assignor.)
- Dillmann, Ernest F., Newark, N. J. Headlight for automobiles. No. 1,302,017; Apr. 29; v. 261; p. 848.
- Dillmeier, Josephine M., New York, N. Y. Casserole-holder. No. 1,305,201; May 27; v. 262; p. 615.
- Dillon, Charles A., assignor to The United Electric Company, Canton, Ohio. Fabric-cleaning apparatus. No. 1,291,440; Jan. 14; v. 258; p. 364.
- Dillon, Curtis H., Milan, Mich., assignor to Dillon Steam Motors Corporation. Motor. No. 1,312,523; Aug. 12; v. 265; p. 156.
- Dillon, Edward L., assignor to L. Norvell, trustee, St. Louis, Mo. Drilling-machine. No. 1,309,277; July 8; v. 264; p. 262.
- Dillon, Friend E., Deep Run, Ohio. Fruit-conveyer. No. 1,309,119; July 8; v. 264; p. 233.
- Dillon, John J., San Francisco, Cal. Vehicle. No. 1,293,365; Feb. 4; v. 259; p. 91.
- Dillon, John J., Sault Ste. Marie, Ontario, Canada. Switch-stand lock. No. 1,306,105; June 10; v. 263; p. 195.
- Dillon, John R., Muskogee, Okla. Fuel-reserve device for automobiles. No. 1,324,191; Dec. 9; v. 269; p. 227.
- Dillon Steam Motors Corporation. (See Dillon, Curtis H., assignor.)
- Dills, Henry S., Garrett, Ind., assignor of one-half to James Heddon's Sons Incorporated, Dowagiac, Mich. Artificial bait or lure. No. 1,323,458; Dec. 2; v. 269; p. 44.
- Dime Savings & Trust Co., administrator. (See Starbuck, Ernest, assignor.)
- Dimech, Charles, Jacksonville, Fla. Cartridge-press. No. 1,318,649; Oct. 14; v. 267; p. 250.
- Dimes, Joseph, Brooklyn, N. Y. Seamless metallic boat construction. No. 1,303,046; May 6; v. 262; p. 108.
- Dimitroff, Vladimir T., North Scituate, R. I. Dental instrument. No. 1,306,998; June 17; v. 263; p. 394.
- Dimm, Benjamin F., Erie, Pa., assignor to C. A. Dimm, trustee. Alloying zinc with iron or steel. No. 1,307,853; June 24; v. 263; p. 583.
- Dimm, Charles A. (See Dimm, Benjamin F., assignor.)
- Dimond, Clark W., Washington, D. C. Portable illuminated sketching or writing service. No. 1,320,537; Nov. 4; v. 268; p. 34.
- Diners, Julius, New York, N. Y. Means for protecting ships from torpedoes. No. 1,305,700; June 3; v. 263; p. 89.
- Dinesen, Laurits, Minneapolis, Minn. Milking apparatus. No. 1,307,539; June 24; v. 263; p. 526.
- Dinger, Russell O., Melvina, Wis. Spark-plug. No. 1,325,439; Dec. 16; v. 269; p. 523.
- Dingfeld, Oscar, Brooklyn, N. Y. Machine for unhairing fur-skins. No. 1,292,726; Jan. 28; v. 258; p. 727.
- Dingle, Herbert, Minas Geraes, Brazil. Scissors. No. 1,300,932; Apr. 15; v. 261; p. 567.



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- Dingle, William G., Los Angeles, Calif. Method of and apparatus for producing liquid hydrocyanic acid. No. 1,304,745; May 27; v. 262; p. 529.
- Dingle, William G., Los Angeles, Calif. Fumigating and spraying apparatus. No. 1,304,746; May 27; v. 262; p. 529.
- Dingle, William G., Los Angeles, Calif. Fumigating. No. 1,304,747; May 27; v. 262; p. 529.
- Dings Magnetic Separator Co. (See Bethke, John P., assignor.)
- Dings Magnetic Separator Company. (See Manegold and Fobian, assignors.)
- Dingwall, Nelson W., and C. M. Budd, New York, N. Y. Adapter and booster casing for shells. No. 1,296,169; Mar. 4; v. 260; p. 82.
- Dingwall, Nelson W., and C. M. Budd, New York, N. Y. Adapter and booster casing for shells. No. 1,296,170; Mar. 4; v. 260; p. 82.
- Dingwall, Nelson W., and C. M. Budd, New York, N. Y. Adapter and booster casing for shells. No. 1,296,171; Mar. 4; v. 260; p. 82.
- Dingwell, Ruel, Cambridge, assignor of one-half to F. W. Jones, Boston, Mass., and one-half to H. S. Andreas, Rochester, N. Y. Fishing-tackle. No. 1,295,448; Feb. 25; v. 259; p. 663.
- Dinhofer, Julius, New York, N. Y. Finger-ring. No. 1,308,894; July 8; v. 264; p. 191.
- Dinieste, John M., South Bethlehem, Pa. Car-coupling. No. 1,297,808; Mar. 18; v. 260; p. 506.
- Dinklage, August J., East Orange, N. J. Anticreeping device for rails. No. 1,298,023; Mar. 25; v. 260; p. 577.
- Dinsmoor, John L., Brooklyn, N. Y. Electromagnetic mechanism. No. 1,293,052; Feb. 4; v. 259; p. 19.
- Dinsmore, Raymond, Divide, assignor of one-half to F. O. Osborn, Hillsdale, Wyo. Automatic vehicle-brake. No. 1,293,728; Feb. 11; v. 259; p. 205.
- Diodato, Panfilo. (See De Cesare and Chiaie, assignors.)
- Dion, Charles J., Minneapolis, Minn. Horseshoe. No. 1,312,685; Aug. 12; v. 265; p. 188.
- Dion, Eugene, Baltic, Conn. Sharpening razors. No. 1,307,658; June 24; v. 263; p. 547.
- Dicu, Julian, Newark, N. J. Bed-table. No. 1,293,631; Feb. 4; v. 259; p. 153.
- Disbennett, Edward C. (See Sanders and Disbennett.)
- Disbro, Roger W., Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Elevator-car construction. No. 1,307,187; June 17; v. 263; p. 428.
- Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Insulating unit for rail-joints. No. 1,311,440; July 29; v. 264; p. 763.
- Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Bolt-supporting construction for rail-joints. No. 1,322,233; Nov. 18; v. 268; p. 467.
- Disbrow, Reuben B., St. Paul, Minn. Milking apparatus. No. 1,304,280; May 20; v. 262; p. 401.
- Disbrow, Reuben B., St. Paul, Minn. Milking apparatus. No. 1,308,051; July 1; v. 264; p. 8.
- Disbrow, Reuben B., St. Paul, Minn. Valve mechanism for milking apparatus. No. 1,308,052; July 1; v. 264; p. 8.
- Disbrow, Reuben B., St. Paul, Minn. Milking apparatus. No. 1,308,053; July 1; v. 264; p. 9.
- Disbrow, Reuben B., St. Paul, Minn. Combined churn and butter-worker. No. 1,322,675; Nov. 25; v. 268; p. 602.
- Discher, Bert J., Flint, Mich. Toy vehicle. No. 1,313,470; Aug. 19; v. 265; p. 355.
- Diskin, Moses B., New York, N. Y. Adjustable support for glue-tanks. No. 1,306,754; June 17; v. 263; p. 350.
- Dismukes, Walter W., assignor to Brandon Printing Co., Nashville, Tenn. Filing-cabinet. No. 1,303,778; May 13; v. 262; p. 270.
- Disney, James L., Philadelphia, Pa. Stereoscope. No. 1,292,271; Jan. 21; v. 258; p. 596.
- Disney, Victor H., Vasper, Tenn. Poultry-releasing device. No. 1,317,559; Sept. 30; v. 266; p. 680.
- Diss, Albert B., Newark, N. J., assignor to The Bassick Co., Bridgeport, Conn. Furniture-leg mount. No. 1,300,136; Apr. 8; v. 261; p. 371.
- Diss, Albert B., Newark, N. J., assignor to The Bassick Co., Bridgeport, Conn. Caster. No. 1,304,748; May 27; v. 262; p. 530.
- Diss, Albert B., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. No. 1,324,146; Dec. 9; v. 269; p. 218.
- Diss, Daniel B., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Insect-proof caster. No. 1,325,316; Dec. 16; v. 269; p. 501.
- Diss, Louis P., Ilion, N. Y. Type-writing machine. No. 1,322,676; Nov. 25; v. 268; p. 603.
- Disselkoen, John N., Duval, Fla. Tire-guard for wheels. No. 1,321,992; Nov. 18; v. 268; p. 422.
- Distefano, Quirino V., Waterbury, Conn. Steering device. No. 1,317,910; Oct. 7; v. 267; p. 47.
- Dister, Joseph, Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Transparent-sided curved walled vessel. No. 1,309,615; July 15; v. 264; p. 363.
- Dister, Joseph, Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Lard-can. No. 1,316,285; Sept. 16; v. 266; p. 355.
- Ditlefsen, Charles L., Seattle, Wash. Safety-stop for window-sashes. No. 1,322,677; Nov. 25; v. 268; p. 603.
- Ditmars, Frederick R. S., Kansas City, Mo., assignor to Clark Mailing Machine Company. Stamp-affixing and envelop-sealing machine. No. 1,302,018; Apr. 29; v. 261; p. 848.
- Ditmars, Frederick R. S., Kansas City, Mo., assignor to Clark Mailing Machine Company. Stamp-affixing and envelop-sealing machine. No. 1,319,676; Oct. 21; v. 267; p. 471.
- Ditson, Jesse, assignor to The J. Geo. Leyner Engineering Works Company, Littleton, Colo. Drill-sharpener. No. 1,302,019; Apr. 29; v. 261; p. 849.
- Ditson, Jesse, assignor to The J. Geo. Leyner Engineering Works Company, Littleton, Colo. Drill-sharpener. No. 1,304,459; May 20; v. 262; p. 437.
- Ditson, Jesse, assignor to The J. Geo. Leyner Engineering Works Company, Littleton, Colo. Drill-steel-pinning device. No. 1,306,106; June 10; v. 263; p. 195.
- Dittbrenner, John C., Indianapolis, Ind. Internal-combustion engine. No. 1,302,020; Apr. 29; v. 261; p. 849.
- Dittmore, John V. (See Brubaker, Samuel H., assignor.)
- Dittmar, Elmer C., Williamsport, Pa. Flooring. (Re-issue.) No. 14,660; June 10; v. 263; p. 304.
- Dittrick, John, Perth, Ontario, Canada. Hammock-support. No. 1,320,381; Nov. 4; v. 268; p. 5.
- Dittrick, Robert A., Fort Myers, Fla. Level. No. 1,296,372; Mar. 4; v. 260; p. 126.
- Divekey, Harvey J., Aurora, Ill. Sanitary pump base and bracket for sinks. No. 1,304,949; May 27; v. 262; p. 566.
- Divers, William H., Crane, Oreg. Resilient tire. No. 1,300,933; Apr. 15; v. 261; p. 567.
- Divine, Charles A., Columbus, Ohio. Finishing or surfacing signs. No. 1,304,749; May 27; v. 262; p. 530.
- Divine, Robert E., Cincinnati, Ohio. Sulfonated-mineral-oil-sludge product and making. No. 1,301,662; Apr. 22; v. 261; p. 748.
- Divine, Robert E., Cincinnati, Ohio. Product and process of producing an alkali-metal sulfonate having the properties of a detergent. No. 1,301,663; Apr. 22; v. 261; p. 748.
- Divine, Robert E., assignor to The Twitchell Process Company, Cincinnati, Ohio. Mineral-oil sulfonic acid and making. No. 1,303,779; May 13; v. 262; p. 271.
- Divine, Robert E., assignor to The Twitchell Process Company, Cincinnati, Ohio. Using sludge sulfonic acids for splitting. No. 1,319,027; Oct. 14; v. 267; p. 323.
- Dix, Donald R., Denver, Colo. Hose-supporter. No. 1,324,802; Dec. 16; v. 269; p. 406.
- Dixon, Ezra, Bristol, R. I. Top-roll saddle. No. 1,306,528; June 10; v. 263; p. 275.
- Dixon, George W. (See Wilson, Dixon, and McLaughlin.)
- Dixon, Harold W. A. (See Dixon, Lewis M. and H. W. A.)
- Dixon, Henry, and A. Thiele, Dayton, Ohio. Milk-bottle-cap protector. No. 1,294,883; Feb. 18; v. 259; p. 512.
- Dixon, Henry P., Los Angeles, Calif. Disappearing table and ironing-board. No. 1,315,913; Sept. 9; v. 266; p. 272.
- Dixon, James M. (See Porter, Louis N., assignor.)
- Dixon, Joseph C., et al. (See Joyce, James M., assignor.)
- Dixon, Lewis M. and H. W. A., New York, N. Y. Expandable mandrel. No. 1,297,809; Mar. 18; v. 260; p. 506.
- Dixon, Robert, Armells, Mont. Trouble-lamp. No. 1,294,884; Feb. 18; v. 259; p. 512.
- Dixon, Robert, Armells, Mont. Portable lighting device. No. 1,316,431; Sept. 16; v. 266; p. 383.
- Dixon, Samuel J. (See Elks and Dixon.)
- Dixon, Theodore. (See Keppeler, George C., assignor.)
- Dixon, Thomas, Langley Park, England. Means for operating switches for tramways in mines, quarries, or the like. No. 1,313,586; Aug. 19; v. 265; p. 378.
- Dixon, Thomas, Woodcliff-on-Hudson, N. J., assignor to Willis Bumper Co. Auto-bumper. No. 1,318,314; Oct. 7; v. 267; p. 125.
- Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,316,699; Sept. 23; v. 266; p. 483.
- Dixon, Thomas B., New York, N. Y. Telegraph and like signaling system. No. 1,323,581; Dec. 2; v. 269; p. 67.
- Dixon, William B. (See Townsend, Herbert, assignor.)
- Dixon, William H. (See Leach, William W., assignor.)
- Djursen, Axel R. K., Malmö, Sweden. Automatic slack-adjuster for railway-brakes and the like. No. 1,294,780; Feb. 18; v. 259; p. 487.
- Dmitrasch, John. (See Borszcz, Peter, assignor.)
- Doak, John H., Los Angeles, Calif., assignor of one-half to M. M. Ingram. Machine for slicing potatoes. No. 1,321,015; Nov. 4; v. 268; p. 124.
- Doane, John C., Hartford, Conn., assignor to Underwood Typewriter Company, N. Y. Type-writing machine. No. 1,322,548; Nov. 25; v. 268; p. 579.
- Doane, Samuel E., R. P. Burrows, and A. F. Sinclair, Cleveland, Ohio, assignors to General Electric Company. Illuminating device for projecting purposes. No. 1,315,821; Sept. 9; v. 266; p. 254.
- Dobbel, Frederick W., Sonoma, Calif. Internal-combustion engine. No. 1,307,487; June 24; v. 263; p. 517.
- Dobbins, Floyd E., Stone, Ky. Meat-saw. No. 1,304,859; May 27; v. 262; p. 550.



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- Dobbins, Timothy C., Huntington Park, Calif. Vehicle wheel. No. 1,304,165; May 20; v. 262; p. 379.
- Dobbs, Andrew B., Herrick, Ill. Automobile-jack. No. 1,320,538; Nov. 4; v. 268; p. 34.
- Dobbs, Herbert T., Cardiff, and E. T. John, Swansea, Wales. Means for indicating the direction of travel of vehicles and vessels. No. 1,290,119; Jan. 7; v. 258; p. 26.
- Dobbyn, Frank L., Superior, Wis. Spacing instrument. No. 1,307,188; June 17; v. 263; p. 428.
- Dobey, James A., Johnston, S. C. Mask. No. 1,319,273; Oct. 21; v. 267; p. 394.
- Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Liquid-fuel-burning apparatus. No. 1,313,525; Aug. 19; v. 265; p. 366.
- Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Combustion-hearth. No. 1,313,526; Aug. 19; v. 265; p. 367.
- Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Protective mechanism for steam-automobile power plants. No. 1,313,527; Aug. 19; v. 265; p. 367.
- Doble, Abner, assignor, by mesne assignments, to Doble-Detroit Steam Motors Co., Detroit, Mich. Steam-automobile. No. 1,317,780; Oct. 7; v. 267; p. 23.
- Doble-Detroit Steam Motors Co. (See Doble, Abner, assignor.)
- Doble, John A. (See Doble, William A., W. A., Jr., and J. A.)
- Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Fuel-burner. No. 1,316,021; Sept. 16; v. 266; p. 306.
- Doble Laboratories. (See Doble, John A., assignor.)
- Doble Laboratories. (See Doble, William A., W. A., Jr., and J. A., assignors.)
- Doble, William A., San Francisco, Calif. Speed-governor. No. 1,319,463; Oct. 21; v. 267; p. 431.
- Doble, William A., assignor to Pelton Water Wheel Company, San Francisco, Cal. Water-conduit and valve therefor. No. 1,290,722; Jan. 7; v. 258; p. 172.
- Doble, William A., W. A., Jr., and J. A., assignors to Doble Laboratories, San Francisco, Calif. Steam-generator. No. 1,298,184; Mar. 25; v. 260; p. 612.
- Doble, William A., Jr. (See Doble, William A., W. A., Jr., and J. A.)
- Doble, William H., assignor of one-fourth to Pneumatic Scale Corporation, Limited, Quincy, Mass. Hollow panel. No. 1,296,272; Mar. 4; v. 260; p. 104.
- Dobrowski, John, Chicago, Ill. Rail-joint. No. 1,298,675; Apr. 1; v. 261; p. 12.
- Dobrowski, Konstanty, South Bethlehem, Pa. Wrench-operating mechanism. No. 1,295,284; Feb. 25; v. 259; p. 625.
- Dobry, John, Cedar Rapids, Iowa. Sanitary hog-trough. No. 1,290,931; Jan. 14; v. 258; p. 247.
- Dobson, Austin M. and B. L., St. Joseph, Mo. Illuminated electric poster device. No. 1,317,436; Sept. 30; v. 266; p. 656.
- Dobson, Blair L. (See Dobson, Austin M. and B. L.)
- Dobson, Daniel J., Greenlee Station, N. C. Machine for ballasting railway-tracks. No. 1,325,356; Dec. 16; v. 269; p. 508.
- Dobson, George, Palisades, Colo. Skid for mining-machines. No. 1,298,304; Mar. 25; v. 260; p. 637.
- Dobson, John V. (See Hellmund and Dobson.)
- Dobson, Schuyler C., Columbus, Ohio. Educational appliance. No. 1,315,478; Sept. 9; v. 266; p. 194.
- Dobson, William, Blackburn, England. Warp selecting and separating mechanism. No. 1,302,327; Apr. 29; v. 261; p. 906.
- Dobyne, George A., and J. H. Bruninga, assignors to Champion Shoe Machinery Company, St. Louis, Mo. Fastener-forming mechanism for fastener-inserting machines. No. 1,309,566; July 8; v. 264; p. 316.
- Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Horn for fastener-inserting machines. No. 1,296,582; Mar. 4; v. 260; p. 171.
- Doctor, Henry C. (See Davidson and Doctor.)
- Dod, Gerald, Southport, England. Apparatus for separating dust or like matter from air or gases and collecting same. No. 1,295,711; Feb. 25; v. 259; p. 725.
- Dodd, Henry S., assignor by mesne assignments, of one-half to J. O'Neill, Toronto, Ontario, Canada. Automatic valve for controlling the flow of gaseous mixtures. No. 1,311,328; July 29; v. 264; p. 742.
- Dodd, Laurence E., Iowa City, Iowa. Method and apparatus for producing stroboscopic effect. No. 1,322,549; Nov. 25; v. 268; p. 579.
- Dodds, Ethan I. (See Flannery and Dodds.)
- Dodds, Ethan I. (See Stafford and Dodds.)
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,291,783; Jan. 21; v. 258; p. 476.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,291,784; Jan. 21; v. 258; p. 476.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,291,785; Jan. 21; v. 258; p. 476.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,291,786; Jan. 21; v. 258; p. 476.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,291,787; Jan. 21; v. 258; p. 476.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,291,788; Jan. 21; v. 258; p. 477.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,291,789; Jan. 21; v. 258; p. 477.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,366; Feb. 4; v. 259; p. 91.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,367; Feb. 4; v. 259; p. 91.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,368; Feb. 4; v. 259; p. 92.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,369; Feb. 4; v. 259; p. 92.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,370; Feb. 4; v. 259; p. 92.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,371; Feb. 4; v. 259; p. 92.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,372; Feb. 4; v. 259; p. 93.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,373; Feb. 4; v. 259; p. 93.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,374; Feb. 4; v. 259; p. 93.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,375; Feb. 4; v. 259; p. 93.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,376; Feb. 4; v. 259; p. 93.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,861; Mar. 4; v. 260; p. 10.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,862; Mar. 4; v. 260; p. 10.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,863; Mar. 4; v. 260; p. 10.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,864; Mar. 4; v. 260; p. 10.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,865; Mar. 4; v. 260; p. 11.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,866; Mar. 4; v. 260; p. 11.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,867; Mar. 4; v. 260; p. 11.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,868; Mar. 4; v. 260; p. 11.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,869; Mar. 4; v. 260; p. 11.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,870; Mar. 4; v. 260; p. 12.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,871; Mar. 4; v. 260; p. 12.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,872; Mar. 4; v. 260; p. 12.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,873; Mar. 4; v. 260; p. 12.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,874; Mar. 4; v. 260; p. 12.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,298,306; Mar. 25; v. 260; p. 638.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,298,307; Mar. 25; v. 260; p. 638.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,298,308; Mar. 25; v. 260; p. 638.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,298,309; Mar. 25; v. 260; p. 638.



- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Illuminating means. No. 1,312,310; Aug. 5; v. 265; p. 85.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Means for and method of utilizing gas from electric storage batteries. No. 1,312,311; Aug. 5; v. 265; p. 85.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Illuminating device. No. 1,312,312; Aug. 5; v. 265; p. 85.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Lamp. No. 1,313,622; Aug. 19; v. 265; p. 285.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,313,623; Aug. 19; v. 265; p. 385.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Means for testing staybolts for boilers. No. 1,323,030; Nov. 25; v. 268; p. 669.
- Dodds, Ethan I., and C. Hyland, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt for boilers. No. 1,298,305; Mar. 25; v. 260; p. 638.
- Dodds, Ethan I., B. E. D. Stafford, and C. Hyland, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt for boilers. No. 1,291,782; Jan. 21; v. 258; p. 476.
- Dodds, James H., assignor of one-third to E. T. McCall, St. Paul, Minn. Engine. No. 1,314,858; Sept. 2; v. 266; p. 71.
- Dodds, Redus D., Humble, Tex. Sample-taking device. No. 1,295,134; Feb. 25; v. 259; p. 592.
- Dodds, Redus D., Humble, Tex. Sampling device. No. 1,319,325; Oct. 21; v. 267; p. 404.
- Dodds, Rowan T. F., Decatur, Ill. Grain-separator. No. 1,321,510; Nov. 11; v. 268; p. 281.
- Dodge, Adiel Y., Chicago, Ill. Train-control system. No. 1,298,676; Apr. 1; v. 261; p. 12.
- Dodge, Austin R., Schenectady, N. Y., assignor to General Electric Company. Pressure-difference-creating device. No. 1,298,471; Mar. 25; v. 260; p. 673.
- Dodge Brothers. (See Duncan, James N., assignor.)
- Dodge Brothers. (See Overmyer, Otho R., assignor.)
- Dodge, D. Stuart. (See Twombly, Willard L., assignor.)
- Dodge, Daniel C., Boone, Iowa. Magneto-tester. No. 1,296,932; Mar. 11; v. 260; p. 288.
- Dodge, Elbert S., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,290,723; Jan. 7; v. 258; p. 172.
- Dodge, Frank E., Flushing, N. Y., assignor to The Barrett Company. Washing ammonium sulfate. No. 1,321,993; Nov. 18; v. 268; p. 422.
- Dodge, George H., Waverly, Mass. Paper box. No. 1,323,170; Nov. 25; v. 268; p. 696.
- Dodge, Harry C. (See Lowman, Roy L., assignor.)
- Dodge, James, assignor of one-third to M. A. Hines and one-third to J. A. Wood, Birmingham, Ala. Electric vaporizer for gas-engines. No. 1,318,546; Oct. 14; v. 267; p. 230.
- Dodge, Lyman, Newburyport, Mass. Door-hinge. No. 1,291,791; Jan. 21; v. 258; p. 477.
- Dodge, Lyman E., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,316,538; Sept. 16; v. 266; p. 404.
- Dodge Manufacturing Company. (See Roe, Walter E., assignor.)
- Dodge, Merton L. (See Brokaw and Dodge.)
- Dodge, Milton L., Newburyport, Mass. Turn-shoe. No. 1,322,181; Nov. 18; v. 268; p. 457.
- Dodge, Otis W., deceased, New York; C. W. Stevens, administrator, assignor to W. H. Bowes Co., Port Chester, N. Y. Coupling for drain-pipes of steam-heated drying-cylinders. No. 1,310,391; July 15; v. 264; p. 504.
- Dodge, Ren, South Bellingham, Wash. Auger. No. 1,311,265; July 29; v. 264; p. 730.
- Dodge, Susan J. (See Brown, George W., assignor.)
- Dodge, Theodore J., Olympia, Wash. Swivel. No. 1,313,372; Aug. 19; v. 265; p. 337.
- Dodge, Wallace D. C., Hampton Falls, N. H. Grease-cup. No. 1,305,527; June 3; v. 263; p. 56.
- Dodge, William L. (See Brough and Dodge.)
- Dodgson, Frank L. (See Salmon and Dodgson, assignors.)
- Dodson, Carroll E., Kansas City, Mo. Sounding wheeled toy. No. 1,302,776; May 6; v. 262; p. 56.
- Dodson, Charles M., Kirksville, Mo. Tractor-plow. No. 1,324,387; Dec. 9; v. 269; p. 264.
- Dodson, Edwin L., and H. G. Pelstring, Covington, Ky. Figure-toy attachment for disk phonographs. No. 1,294,243; Feb. 11; v. 259; p. 327.
- Dodson, Samuel C., Baltimore, Md. Table-truck. No. 1,298,185; Mar. 25; v. 260; p. 612.
- Doe, Loring B., San Francisco, Cal., assignor to Motor Trailer Company. Coupling device for trailers. No. 1,294,244; Feb. 11; v. 259; p. 328.
- Doe, Thomas B., Lowell, Mass. Fuse for projectiles. No. 1,299,308; Apr. 1; v. 261; p. 157.
- Doehler Die-Casting Company. (See Bamberg and Doehler, assignors.)
- Doehler Die Casting Company. (See Gutmueller, August G., assignor.)
- Doehler Die Casting Company. (See Kralund, John, assignor.)
- Doehler Die Casting Company. (See Kralund, Duckworth, and Stern, assignors.)
- Doehler Die-Casting Company. (See Kralund and Stern, assignors.)
- Doehler Die Casting Company. (See Pack, Charles, assignor.)
- Doehler Die Casting Company. (See Pack and Nock, assignors.)
- Doehler, Herman H. (See Bamberg and Doehler.)
- Doepker, William J., Akron, Ohio. Lamp. No. 1,311,681; July 29; v. 264; p. 807.
- Doerfer, John A., Portland, Oreg. Vending device. No. 1,315,014; Sept. 2; v. 266; p. 99.
- Doerfler, John C., Goldfield, Nev. Automobile-jack. No. 1,304,460; May 20; v. 262; p. 437.
- Doerflinger, William F., Halesite, N. Y. Lacquer for airplane fabrics. No. 1,315,216; Sept. 9; v. 266; p. 146.
- Doerflinger, William F., Staten Island, N. Y. Pyroxylin composition and making same. No. 1,320,458; Nov. 4; v. 268; p. 19.
- Doering, Henry H. (See Martin and Doering.)
- Doerner, Henry A., Denver, Colo. Extracting and recovering molybdenum from its ores and concentrates. No. 1,299,559; Apr. 8; v. 261; p. 242.
- Doerner, Henry A., Denver, Colo. Extracting and recovering molybdenum from its ores and concentrates. No. 1,299,560; Apr. 8; v. 261; p. 242.
- Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Railway-truck side frame. No. 1,292,727; Jan. 28; v. 258; p. 727.
- Doerr, Martin, San Francisco, Calif. Collapsible lamp extension. No. 1,326,650; Dec. 30; v. 269; p. 803.
- Does de Bije, Anne J. M. R. van der, The Hague, Netherlands. Furnace. No. 1,314,389; Aug. 26; v. 265; p. 565.
- Doglion, Arthur, Brooklyn, N. Y. Bicycle-race apparatus. No. 1,315,098; Sept. 2; v. 266; p. 114.
- Doherty, George P., Cleveland, Ohio. Copy-liner. No. 1,309,937; July 15; v. 264; p. 422.
- Doherty, Henry L. (See Laird, Wilbur G., assignor.)
- Doherty, Henry L. (See Steffens, Fred, assignor.)
- Dohmer, Burt E., and A. J. Huff, Dayton, Ohio. Floating tool-holder. No. 1,317,008; Sept. 23; v. 266; p. 539.
- Dohner, John H., Dayton, Ohio. Pipe-coupling. No. 1,307,540; June 24; v. 263; p. 526.
- Dolan, George A., et al. (See Aylsworth, Howard G., assignor.)
- Dolan, John J., Campello, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Toe-rest for lasting-machines. No. 1,295,185; Feb. 25; v. 259; p. 592.
- Dolcater, Frederick C., Washington, D. C., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing apparatus with adding mechanism. No. 1,301,235; Apr. 22; v. 261; p. 667.
- Doldt, John E., assignor to National Metal Seal Corporation, Portland, Me. Closure for containing vessels. No. 1,300,252; Apr. 15; v. 261; p. 423.
- Dole, Frederick J., New York, assignor of one-half to H. D. Penney, Pelham, N. Y. Automobile-lamp shade. No. 1,304,860; May 27; v. 262; p. 550.
- Doll, John J., New York, N. Y. Musical instrument. No. 1,299,146; Apr. 1; v. 261; p. 120.
- Doll, John M., Shreveport, La. Manifold. No. 1,290,120; Jan. 7; v. 258; p. 26.
- Dollar, Robert S. (See Eldridge, John, assignor.)
- Dollscheck, Charles W., assignor of one-half to M. Rothschild, Philadelphia, Pa. Rim-stretcher. No. 1,298,677; Apr. 1; v. 261; p. 12.
- Dolne-Dehan, Gaston Cointe, Selessin, near Liege, Belgium. Valveless two-stroke engine. No. 1,306,661; June 10; v. 263; p. 300.
- Doman, Albert E., Syracuse, N. Y. Making commutator-segments. No. 1,314,051; Aug. 26; v. 265; p. 499.
- Doman, Herman C., assignor to Banderob-Chase Company, Oshkosh, Wis. Washing-machine lever. No. 1,299,919; Apr. 8; v. 261; p. 324.
- Doman, Lewis B., East Syracuse, assignor to The Amphion Piano Player Company, Syracuse, N. Y. Wind-inducing device for self-playing musical instruments. No. 1,293,729; Feb. 11; v. 259; p. 206.
- Doman, Lewis B., Syracuse, N. Y., assignor to The Amphion Piano Player Company. Self-playing musical instrument. No. 1,326,581; Dec. 30; v. 269; p. 791.
- Dombrowsky, Carl E., Norwich, Conn. Cultivating-plow. No. 1,302,141; Apr. 29; v. 261; p. 871.
- Domocq, Joseph, Los Angeles, Calif. Hose drier and stretcher. No. 1,313,169; Aug. 12; v. 265; p. 283.
- Domenico, Deiana, San Francisco, Cal. Barrel-tester. No. 1,297,113; Mar. 11; v. 260; p. 329.
- Domeniconi, Albert S., San Anselmo, Calif. Cigarette-case. No. 1,310,652; July 22; v. 264; p. 584.
- Domestic Electric Company, The. (See Cook, Joel R., assignor.)
- Domestic Sewing Machine Co. (See Smallbone, Harry E., assignor.)
- Domina, John, Chicago, Ill. Fan. No. 1,312,023; Aug. 5; v. 265; p. 32.
- Dominy, Charles O., Lone Pine, Calif. Power-driven chuck. No. 1,309,255; July 8; v. 264; p. 277.
- Domke, Veron, Bremerton, Wash. Automobile-tire. No. 1,313,800; Aug. 19; v. 265; p. 418.



## Alphabetical list of patentees—Continued.

- Donadio, Prospero, Brooklyn, N. Y. Safety-lock for revolvers. No. 1,313,073; Aug. 12; v. 265; p. 264.
- Donaghy, William, Spokane, Wash. Traction-wheel. No. 1,324,107; Dec. 9; v. 269; p. 210.
- Donaghy, William, Spokane, Wash. Tractor leveling device. No. 1,324,108; Dec. 9; v. 269; p. 211.
- Donaher, Patrick. (See Kuehne and Donaher.)
- Donahue, Leonard, Verdun, Quebec, Canada. Teller's window for bank-partitions. No. 1,314,513; Sept. 2; v. 266; p. 7.
- Donahue-Stratton Company. (See Hicks, Harold H., assignor.)
- Donald, James, and T. F. Downey, Chicago, Ill. Furnace. No. 1,301,111; Apr. 22; v. 261; p. 641.
- Donald, Nannie A., Meridian, Miss. Spark-arrester. No. 1,302,328; Apr. 29; v. 261; p. 906.
- Donald, Percy G., London, England. Roller bearing applicable to gravity-runways or other purposes. No. 1,300,590; Apr. 15; v. 261; p. 494.
- Donald, Percy G., London, England. Gravity and like runway. No. 1,323,171; Nov. 25; v. 268; p. 696.
- Donald, William H., Oak Ridges, assignor of one-half to S. G. Forst, Toronto, Ontario, Canada. Classifier. No. 1,298,310; Mar. 25; v. 260; p. 638.
- Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. End-trimming machine. No. 1,302,532; May 6; v. 262; p. 10.
- Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Automatic machine for making cylindrical metal parts. No. 1,318,484; Oct. 14; v. 267; p. 218.
- Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Broaching-machine. No. 1,318,485; Oct. 14; v. 267; p. 219.
- Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Inner and outer broaching-machine. No. 1,318,486; Oct. 14; v. 267; p. 219.
- Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Broaching-machine. No. 1,318,487; Oct. 14; v. 267; p. 219.
- Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Broaching articles. No. 1,318,488; Oct. 14; v. 267; p. 219.
- Donaldson, Augustus F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Means for broaching bushings. No. 1,318,489; Oct. 14; v. 267; p. 220.
- Donaldson, Charles, J. J. Bloxson, and J. K. Brooks, assignors of one-fourth to E. E. Myers, Brookville, Pa. Glass apparatus. No. 1,311,804; July 29; v. 264; p. 830.
- Donaldson, Charles W., Akron, Ohio, assignor to Donaldson Engineering Company, Pittsburgh, Pa. System of fireproof building construction. No. 1,293,377; Feb. 4; v. 259; p. 94.
- Donaldson, Charles W., Akron, Ohio, assignor to Donaldson Engineering Company, Pittsburgh, Pa. Roof construction. No. 1,293,378; Feb. 4; v. 259; p. 94.
- Donaldson, Dora E., Minneapolis, Minn. Combination corset-cover and brassière. No. 1,317,621; Sept. 30; v. 266; p. 693.
- Donaldson Engineering Company. (See Donaldson, Charles W., assignor.)
- Donaldson & Fisher Company, The. (See Fisher, Harvey L., assignor.)
- Donaldson, Orville M., Detroit, assignor of one-half to J. W. Wayman, Highland Park, Mich. Vaporizer. No. 1,321,608; Nov. 11; v. 268; p. 300.
- Donaldson, Roy G., Crestline, Ohio. Grate. No. 1,324,803; Dec. 16; v. 269; p. 406.
- Donaldson, Thornycroft, and K. Mackie, Woolston, assignors to John I. Thornycroft & Company, Limited, Westminster, England. Furnace-front for liquid-fuel furnaces. No. 1,309,397; July 8; v. 264; p. 284.
- Donaldson, William A. (See De Vries and Donaldson.)
- Donaldson, James P. (See Barger and Donaldson.)
- Donason, Carl, Magnon, Ill. Tractor belt-wheel. No. 1,324,804; Dec. 16; v. 269; p. 406.
- Donat, Edwin A., Lynnport, Pa. Sash-lock. No. 1,301,407; Apr. 22; v. 261; p. 701.
- Donat, Joseph L., Chicago, Ill. Spark-plug. No. 1,290,121; Jan. 7; v. 258; p. 26.
- Doncheff, Demetre, East St. Louis, Ill. Time-controlled camera attachment. No. 1,300,825; Apr. 15; v. 261; p. 545.
- Doner, George W., Osceola, S. D. Incubator attachment. No. 1,297,114; Mar. 11; v. 260; p. 329.
- Donle, Harold P., assignor to Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Electron-valve. No. 1,291,441; Jan. 14; v. 258; p. 364.
- Donle, Harold P., assignor to Connecticut Telephone & Electric Company, Inc., Meriden, Conn. Radio communication. No. 1,291,641; Jan. 14; v. 258; p. 411.
- Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Meriden, Conn. Wave-meter. No. 1,305,202; May 27; v. 262; p. 615.
- Donley Brothers Company, The. (See Cain, Harry N., assignor.)
- Donley, Robert W., Philadelphia, Pa. Washing-machine. No. 1,318,981; Oct. 14; v. 267; p. 313.
- Donlon, Thomas H., Syracuse, N. Y. Animal-trap. No. 1,303,265; May 13; v. 262; p. 178.
- Donnell, Samuel F., Seattle, Wash. Convertible bed and table attachment for automobiles. No. 1,300,826; Apr. 15; v. 261; p. 545.
- Donnell, Thomas J., Jenkintown, Pa. Check-book. No. 1,305,781; June 3; v. 263; p. 104.
- Donnelly, Clarence E., New York, N. Y. Parachute. No. 1,310,693; July 22; v. 264; p. 591.
- Donnelly, Edward F., Malden, Mass. Flush-valve. No. 1,299,692; Apr. 8; v. 261; p. 273.
- Donnelly, Frank P. (See McDade and Donnelly.)
- Donnelly, John J., Horton, Kans. Superheater unit. No. 1,325,147; Dec. 16; v. 269; p. 469.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Clutch mechanism. No. 1,293,053; Feb. 4; v. 259; p. 19.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making card-matches. No. 1,313,471; Aug. 19; v. 265; p. 356.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Means for treating match-splints with powdered material. No. 1,313,472; Aug. 19; v. 265; p. 316.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. No. 1,326,187; Dec. 30; v. 269; p. 716.
- Donnelly, Laurence F., Lansford, Pa. Toilet utensil. No. 1,312,896; Aug. 12; v. 265; p. 229.
- Donner, Percy E. (See Baader, Stephen, assignor.)
- Donner, Percy E. (See Snyder, Jacob R., assignor.)
- Donner, Percy E. (See Snyder and Fleming, assignors.)
- Donohue, William, New York, N. Y. Circuit-closer. No. 1,311,214; July 29; v. 264; p. 721.
- Donop, August W., Chicago, Ill., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric regulator. No. 1,319,855; Oct. 28; v. 267; p. 528.
- Donovan, Arthur J., and F. Pokorny, Jr., New York, N. Y. Governor for internal-combustion motors. No. 1,290,122; Jan. 7; v. 258; p. 26.
- Donovan, Arthur J., and F. Pokorny, Jr., New York, N. Y. Governor. No. 1,290,123; Jan. 7; v. 258; p. 27.
- Donovan, Arthur J., and F. Pokorny, Jr., New York, N. Y. Governor. No. 1,290,523; Jan. 7; v. 258; p. 123.
- Donovan, James J., Brooklyn, N. Y. Label-affixer. No. 1,302,142; Apr. 29; v. 261; p. 871.
- Donovan, John J., Oakland, Calif. Desk arrangement. No. 1,300,934; Apr. 15; v. 261; p. 567.
- Donovan, John S., Fredericton, New Brunswick, Canada. Shoe-pack. No. 1,303,037; May 6; v. 262; p. 106.
- Donovan, Patrick, et al. (See Miller, Jacob J., assignor.)
- Donovan, Patrick H., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Drawbar slack-adjuster. No. 1,307,087; June 17; v. 263; p. 411.
- Donovan, Patrick L., Toulon, Ill. Draft-bar for harrows. No. 1,299,561; Apr. 8; v. 261; p. 243.
- Donovan, Patrick L., Toulon, Ill. Draft-bar. No. 1,308,938; July 8; v. 264; p. 199.
- Doolan, Charles P., assignor of one-half to A. Bozek, Gebu, Wyo. Beet-harvester. No. 1,293,632; Feb. 4; v. 259; p. 153.
- Doolan, Henry J., Washington, D. C. Automatic train-stop. No. 1,311,761; July 29; v. 264; p. 822.
- Dooley, Harry L., Rock Island, Ill., assignor to Deere & Mamsur Company, Moline, Ill. Planter. No. 1,803,780; May 13; v. 262; p. 271.
- Dooley, Joseph R., Mobile, Ala. Railway-tie. No. 1,317,560; Sept. 30; v. 266; p. 681.
- Doolin, Charles B., San Antonio, Tex. Laminated fabric for tire-casings. No. 1,311,857; July 29; v. 264; p. 840.
- Doonar, Louis, Bend, Oreg. Producing dehydrated mineral salts. No. 1,308,403; July 1; v. 264; p. 72.
- Dorais, William A., and J. B. Feise, O'Fallon, Mo. Indicator. No. 1,305,255; June 3; v. 263; p. 5.
- Doran, Alfred. (See Cavanaugh and Doran.)
- Doran, Daniel A., Yonkers, N. Y. Paint-spraying nozzle. No. 1,326,483; Dec. 30; v. 269; p. 772.
- Doran, Daniel A., Yonkers, N. Y. Machine for spreading heavy coatings on ships and the like. No. 1,326,484; Dec. 30; v. 269; p. 772.
- Doran, Henry T., Toronto, Ontario, Canada. Automobile direction-indicator. No. 1,318,982; Oct. 14; v. 267; p. 314.
- Doran, James A., Providence, R. I. Primer-detonator. No. 1,313,801; Aug. 19; v. 265; p. 418.
- Doran, John G., Camberwell, London, England. Vaporizer and sterilizer. No. 1,291,442; Jan. 14; v. 258; p. 364.
- Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,294,245; Feb. 11; v. 259; p. 328.
- Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Packing for steam-turbines. No. 1,315,822; Sept. 9; v. 266; p. 254.
- Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,326,651; Dec. 30; v. 269; p. 803.
- Dorer, Emma K., New York, N. Y. Game. No. 1,314,310; Aug. 26; v. 265; p. 549.
- Dorer, Primus O. (See Rogers and Dorer.)



- Dorer, Primus O., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Bezel-wound timepiece. No. 1,301,919; Apr. 29; v. 261; p. 830.
- Dorey, Edgar W., London, assignor to Thomas Walker & Son Limited, Birmingham, England. Marine log. No. 1,307,624; June 24; v. 263; p. 541.
- Dorey, George B., Montreal, Quebec, Canada. Shock-absorber. No. 1,308,171; July 1; v. 264; p. 30.
- Dorhauer, Oswald A. E., Woollahra, near Sydney, assignor to L. A. B. Stuart, Sydney, New South Wales, Australia. Towel-rack. No. 1,290,932; Jan. 14; v. 258; p. 247.
- Dorion, Michael, Rumford, Me. Window-locking device. No. 1,298,472; Mar. 25; v. 260; p. 673.
- Dorion, Wilfrid, Charlesbourg, Quebec, Canada. Change-speed device. No. 1,318,733; Oct. 14; v. 267; p. 266.
- Dorkins, Sam P., Saluda, S. C. Plow attachment. No. 1,299,435; Apr. 8; v. 261; p. 214.
- Dormandy, Garry J., assignor of one-half to United Shirt and Collar Company, Troy, N. Y. Electric-lighting fixture. No. 1,300,827; Apr. 15; v. 261; p. 545.
- Dormandy, Garry J., assignor of one-half to United Shirt and Collar Company, Troy, N. Y. Electric-lighting fixture. No. 1,316,700; Sept. 23; v. 266; p. 483.
- Dormandy, Garry J., assignor of one-half to United Shirt and Collar Company, Troy, N. Y. Shade or reflector and support therefor. No. 1,321,191; Nov. 11; v. 268; p. 220.
- Dorment, Frank C., Detroit, Mich., assignor to The Rogers Electric Laboratories Company, Cleveland, Ohio. Hand-operated nebulizer. No. 1,294,246; Feb. 11; v. 259; p. 328.
- Dorment, Frank C., Detroit, Mich., assignor of one-half to G. J. Lowe, Cleveland, Ohio. Air-charging device. No. 1,309,880; July 15; v. 264; p. 411.
- Dorment, Frank C., assignor to Frank Prevec, Cleveland, Ohio. Inhaler. No. 1,314,736; Sept. 2; v. 266; p. 49.
- Dorn, Hern C., assignor of one-third to H. A. Luedke and one-third to J. C. Schroeder, Milwaukee, Wis. Milk-bottle receptacle. No. 1,316,286; Sept. 16; v. 266; p. 356.
- Dorn, Otto, Newark, N. J. Drum and cymbal beater. No. 1,319,994; Oct. 28; v. 267; p. 554.
- Dornan, Robert, 2d, Wayne, Pa. Journal-box-lubricating device. No. 1,298,311; Mar. 25; v. 260; p. 639.
- Dornbrook, Frederick L., assignor to R. Rom, Milwaukee, Wis. Safety appliance for steam-boilers. No. 1,293,730; Feb. 11; v. 259; p. 206.
- Doroszk, Tom, Polley, Wis. Bicycle-sleigh. No. 1,324,342; Dec. 9; v. 269; p. 255.
- Dorr Company, The. (See Bloomfield, Alfred L., assignor.)
- Dorr Company, The. (See Coe, Harrison S., assignor.)
- Dorr Company, The. (See McAfee, Daniel S., assignor.)
- Dorr, Edgar S. (See Callahan, Timothy F., assignor.)
- Dorr, George P., Chicago, Ill. Rotary pump. No. 1,323,459; Dec. 2; v. 269; p. 44.
- Dorr, Lucius B., Buffalo, N. Y. Aeroplane. No. 1,303,544; May 13; v. 262; p. 228.
- Dorr, Lucius B., Buffalo, N. Y. Airplane. No. 1,312,686; Aug. 12; v. 265; p. 188.
- Dorsch, Max E., Chicago, Ill. Animal-trap. No. 1,305,075; May 27; v. 262; p. 591.
- Dorsett, Andrew C., Coffinton, Ga. Envelop. No. 1,298,473; Mar. 25; v. 260; p. 673.
- Dorsey, Edward W., Newark, Ohio. Rail connection. No. 1,312,620; Aug. 12; v. 265; p. 176.
- Dorsey, Edward W., Newark, Ohio. Rail-lock. No. 1,312,621; Aug. 12; v. 265; p. 176.
- Dorsey, Farnum F., Winchester, Mass., assignor to North East Electric Company, Rochester, N. Y. Ignition apparatus. No. 1,314,131; Aug. 26; v. 265; p. 514.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Field-magnet. No. 1,314,132; Aug. 26; v. 265; p. 515.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Ignition apparatus. No. 1,317,357; Sept. 30; v. 266; p. 641.
- Dorsey, Georgie, Seattle, Wash. Telephone attachment. No. 1,304,461; May 20; v. 262; p. 437.
- Dorsey, Herbert G., Dayton, Ohio. Safety device for electric circuits. No. 1,291,443; Jan. 14; v. 258; p. 365.
- Dorsey, Herbert G., and A. C. Kirsner, assignors to The National Cash Register Company, Dayton, Ohio. Credit-slip-authorizing apparatus. No. 1,321,900; Nov. 18; v. 268; p. 405.
- Dorsey, Walter A., Jeffersonville, Ind. Burner for hydrocarbon fuels. No. 1,291,792; Jan. 21; v. 258; p. 478.
- Dorsey, Walter A., assignor to The Bonney-Floyd Company, Columbus, Ohio. Car-mover. No. 1,295,973; Mar. 4; v. 260; p. 35.
- Dorsey, Walter A., assignor to The Bonney-Floyd Company, Columbus, Ohio. Coal-mine car. No. 1,305,076; May 27; v. 262; p. 591.
- Dorsey, Walter A., assignor to The Bonney-Floyd Company, Columbus, Ohio. Car-moving tool. No. 1,311,803; July 29; v. 264; p. 830.
- Dorstrom, Benjamin, Bristol, R. I. Fire-extinguisher bracket. No. 1,314,186; Aug. 26; v. 265; p. 525.
- Dorval, Wilbrod, Verdun, Quebec, Canada. Rotary steam-engine. No. 1,322,882; Nov. 25; v. 268; p. 641.
- Dosch, Oliver L., and M. Hemleb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine. No. 1,304,750; May 27; v. 262; p. 530.
- Dosch, Oliver L., and M. Hemleb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine. No. 1,311,114; July 22; v. 264; p. 669.
- Doss, Noble C., assignor to The Doss Rubber and Tube Company, Atlanta, Ga. Compression inner tube. No. 1,295,011; Feb. 18; v. 259; p. 540.
- Doss Rubber and Tube Company, The. (See Doss, Noble C., assignor.)
- Dotson, Frank B., Burley, Idaho. Automatic camera-operator. No. 1,323,230; Nov. 25; v. 268; p. 708.
- Doty, Charles E. (See Desch, Otto G., assignor.)
- Doty, Nicholas M., Alcester, S. D. Automatic hog oiler and disinfectant. No. 1,305,965; June 3; v. 263; p. 140.
- Doty, Vernon A., West Springfield, Mass. Automobile-signal. No. 1,312,109; Aug. 5; v. 265; p. 49.
- Doubleday, Julian B., Alexandria, Va. Distilling apparatus. No. 1,306,687; June 17; v. 263; p. 338.
- Douchamp, Henry, assignor to Smethport Glass Co., Smethport, Pa. Glass-furnace. No. 1,298,474; Mar. 25; v. 260; p. 673.
- Dougan, Kennedy, Minneapolis, Minn. Internal-combustion engine. No. 1,299,433; Apr. 8; v. 261; p. 213.
- Dougan, Kennedy, Minneapolis, Minn. Internal-combustion engine. No. 1,299,434; Apr. 8; v. 261; p. 214.
- Dougan, Kennedy, Minneapolis, Minn. Submarine artillery. No. 1,303,266; May 13; v. 262; p. 178.
- Dougherty, Bernard E., Seattle, Wash. Kitchen utensil. No. 1,293,379; Feb. 4; v. 259; p. 94.
- Dougherty, Edward J., St. Louis, Mo. Agricultural implement. No. 1,292,391; Jan. 21; v. 258; p. 625.
- Dougherty, Edward J., St. Louis, Mo. Agricultural implement. No. 1,301,043; Apr. 15; v. 261; p. 591.
- Dougherty, Frank H. (See Reisberg, Van Vechton, assignor.)
- Dougherty, John A., Zanesville, Ohio. Fan device. No. 1,300,253; Apr. 15; v. 261; p. 423.
- Dougherty, John M., and H. C. Tabler, St. Louis, Mo. Radiator-shield. No. 1,319,052; Oct. 21; v. 267; p. 352.
- Dougherty, John W., Beaver, Pa. Blowing-down and blowing-out blast-furnaces. No. 1,309,465; July 8; v. 264; p. 297.
- Dougherty, John W., Beaver, Pa. Preventing gas explosions in blast-furnaces during temporary stops. No. 1,309,466; July 8; v. 264; p. 297.
- Dougherty, Martin P. (See MacDonald and Dougherty.)
- Dougherty, Roger J., Philadelphia, Pa. Protector and tool-retainer for portable riveters. No. 1,325,982; Dec. 23; v. 269; p. 641.
- Dougherty, Terence, Brooklyn, N. Y. Advertising device. No. 1,317,561; Sept. 30; v. 266; p. 631.
- Dougherty, William, assignor of one-third to M. E. Grundy and one-third to A. C. Mortland, Chester, Pa. Gas-fuel steam-generator. No. 1,320,539; Nov. 4; v. 268; p. 34.
- Doughty, Charles, assignor of one-half to F. J. Heman, Denver, Colo. Luggage-carrier for automobiles. No. 1,312,524; Aug. 12; v. 265; p. 156.
- Doughty, Edgar S., Red Wing, Minn. Amusement apparatus. No. 1,302,642; May 6; v. 262; p. 30.
- Doughty, Herman W., Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company, Signal-recorder. No. 1,309,720; July 15; v. 264; p. 382.
- Douglas Company. (See Lenders, Adolph W. H., assignor.)
- Douglas, Charles D., Watford, England. Motive-power engine. No. 1,303,781; May 13; v. 262; p. 271.
- Douglas, Clark. (See Turner, Löffler, and Douglas.)
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Projector. No. 1,291,444; Jan. 14; v. 258; p. 365.
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Circuit-continuing device. No. 1,299,147; Apr. 1; v. 261; p. 120.
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Circuit-connector. No. 1,308,172; July 1; v. 264; p. 31.
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Reflecting electric lamp. No. 1,313,473; Aug. 19; v. 265; p. 356.
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Connector-switch. No. 1,314,050; Aug. 26; v. 265; p. 499.
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Electrical connector. No. 1,325,007; Dec. 16; v. 269; p. 442.
- Douglas, James B., Swarthmore, Pa. Safety-bulletin box. No. 1,325,008; Dec. 16; v. 269; p. 442.
- Douglas, Louis M. (See Parsons, Cook, and Douglas.)
- Douglas, Louis M. (See Parsons, Walker, Cook, and Douglas.)
- Douglas Packing Company. (See Douglas, Robert, assignor.)
- Douglas, Robert, assignor to Douglas Packing Company, Inc., Rochester, N. Y. Drier. No. 1,301,112; Apr. 22; v. 261; p. 642.



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- Douglas, Robert, assignor to Douglas Packing Company, Inc., Rochester, N. Y. Food product and its manufacture. No. 1,304,166; May 20; v. 262; p. 379.
- Douglas & Rudd Mfg. Co. (See Douglas, Harry A., assignor.)
- Douglas, Theodore, Scarborough, N. Y. Bearing. No. 1,301,664; Apr. 22; v. 261; p. 749.
- Douglas, Walter W., Savannah, Ga. Magazine for firearms. No. 1,308,665; July 1; v. 264; p. 120.
- Douglas, William H., Belleville, N. J. Convertible automobile-body. No. 1,318,983; Oct. 14; v. 267; p. 314.
- Douglass, Frank J., Chicago, Ill. Steam-radiator. No. 1,298,186; Mar. 25; v. 260; p. 612.
- Douglass, Harry B., Detroit, Mich. Indicating-calipers. No. 1,305,701; June 3; v. 263; p. 89.
- Douglass, Homer S., assignor to M. B. Douglass, Lathrop, Mo. Valve-grinding mechanism. No. 1,309,603; July 8; v. 264; p. 324.
- Douglass, Leon F., San Rafael, Calif. Cinematography. No. 1,313,587; Aug. 19; v. 265; p. 378.
- Douglass, Mary B. (See Douglass, Homer S., assignor.)
- Douglass, Leon F., San Rafael, Calif. Producing moving pictures in color. No. 1,325,279; Dec. 16; v. 269; p. 494.
- Douglass, Leon F., San Rafael, Calif. Producing colored cinematographic films and apparatus therefor. No. 1,325,280; Dec. 16; v. 269; p. 494.
- Douglass, Napoleon B., Berkeley, Cal. Wall-bed spring-counterbalance. No. 1,295,449; Feb. 25; v. 259; p. 664.
- Douglass, Samuel E., Beaufort, N. C. Picture-frame holder and hanger. No. 1,300,137; Apr. 8; v. 261; p. 371.
- Douglass, Stephen A., Kirkwood, Mo. Toy aeroplane. No. 1,315,479; Sept. 9; v. 266; p. 194.
- Doulton, Henry L. (See Podmore, William, assignor.)
- Dounaew, Leonid, New York, N. Y. Water-feed apparatus for steam-boilers or the like. No. 1,302,329; Apr. 29; v. 261; p. 907.
- Douros, Andrew P., Tacoma, Wash. Cigar and cigarette holder. No. 1,290,524; Jan. 7; v. 258; p. 123.
- Dourte, George J., Denver, Colo. Valveless pump. No. 1,312,962; Aug. 12; v. 265; p. 242.
- Douthitt, Fletcher, Detroit, Mich. Ascertaining camera-stops. No. 1,309,398; July 8; v. 264; p. 284.
- Douty, Fred A. (See Hatch, Edward, assignor.)
- Doval, Jesus. (See Noguera and Doval.)
- Dove, Frank. (See Longren and Dove.)
- Dove, Frank, Topeka, Kans., assignor to A. K. Longren, Kansas City, Mo. Aeroplane stabilizing mechanism. No. 1,321,094; Nov. 11; v. 268; p. 202.
- Dovel, James P., Birmingham, Ala. Portable washing plant. No. 1,309,754; July 15; v. 264; p. 388.
- Dovel, James P., Birmingham, Ala. Blast-furnace-stack reinforcement. No. 1,316,085; Sept. 16; v. 266; p. 318.
- Dovel, James P., Birmingham, Ala. Heat-recuperating process and apparatus for blast-furnaces. No. 1,316,086; Sept. 16; v. 266; p. 318.
- Dovell, Harper H., Baltimore, Md. Machine-gun. No. 1,294,636; Feb. 18; v. 259; p. 454.
- Dovener, William N., District of Columbia. Change-counter. No. 1,317,358; Sept. 30; v. 266; p. 642.
- Dover, George W., Cranston, assignor to George W. Dover, Incorporated, Providence, R. I. Safety-catch for brooches and the like. No. 1,292,272; Jan. 21; v. 258; p. 597.
- Dover, George W., Cranston, assignor to George W. Dover, Incorporated, Providence, R. I. Lathe-tool. No. 1,301,236; Apr. 22; v. 261; p. 667.
- Dover, George W., Cranston, assignor to George W. Dover, Incorporated, Providence, R. I. Making pin-tongues. No. 1,306,049; June 10; v. 263; p. 184.
- Dover, George W., Cranston, and W. H. Hughes, Providence, assignors to George W. Dover, Incorporated, Providence, R. I. Safety-catch for brooches and similar articles. No. 1,304,666; May 27; v. 262; p. 514.
- Dover, George W., Cranston, R. I., assignor, by mesne assignments, to American Guaranteed Tooth Company, Incorporated, Boston, Mass. Making false-teeth backings from sheet metal. No. 1,313,528; Aug. 19; v. 265; p. 369.
- Dover, George W., Cranston, assignor to George W. Dover, Incorporated, Providence, R. I. Device for castellating nuts. No. 1,315,289; Sept. 9; v. 266; p. 159.
- Dover, George W., Cranston, assignor to George W. Dover, Incorporated, Providence, R. I. Means for locking pulleys or the like to shafts. No. 1,323,172; Nov. 25; v. 268; p. 696.
- Dover, Horace W., Northampton, England. Hand-wheel. No. 1,294,885; Feb. 18; v. 259; p. 512.
- Dover Manufacturing Company, The. (See Braun, William A., assignor.)
- Dover Manufacturing Company, The. (See Johnson, Charles T., assignor.)
- Dover Manufacturing Company, The. (See Stranzky, Emil, assignor.)
- Dover Stamping & Manufacturing Company. (See Anderson, Pahr, assignor.)
- Dovi, John T., Milwaukee, Wis. Fruit-press. No. 1,312,313; Aug. 5; v. 265; p. 85.
- Dow Chemical Company, The. (See Barstow, Edwin C., assignor.)
- Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
- Dow Chemical Company, The. (See Dow and Quayle, assignors.)
- Dow, Frank B., Big Sandy, Tex. Guide and depth-regulator. No. 1,321,367; Nov. 11; v. 268; p. 254.
- Dow, George B. N., assignor of one-half to F. Cole, Manchester, N. H. Antiskid-chain holder. No. 1,315,099; Sept. 2; v. 266; p. 114.
- Dow, George B. N., and F. Cole, Manchester, N. H. Hook. No. 1,325,627; Dec. 23; v. 269; p. 575.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Mechanical or structural element. No. 1,296,373; Mar. 4; v. 260; p. 126.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Making halogen derivatives of hydrocarbons. No. 1,306,472; June 10; v. 263; p. 266.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Recovery of coal-distillation products. No. 1,317,359; Sept. 30; v. 266; p. 642.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Extracting bromin from brine. No. 1,323,173; Nov. 25; v. 268; p. 696.
- Dow, Herbert H., Midland, Mich., and W. O. Quayle, Wilmington, Del., assignors to The Dow Chemical Company, Midland, Mich. Manufacturing chloroform. No. 1,311,329; July 29; v. 264; p. 742.
- Dow, William B., Waltham, Mass. Ice-cream disher. No. 1,323,582; Dec. 2; v. 269; p. 68.
- Dowd, Bernard J., Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Platen-release mechanism. No. 1,312,024; Aug. 5; v. 265; p. 33.
- Dowdall, James T., Woodhaven, assignor of one-half to M. Friedman, New York, N. Y. Spool-support for sewing-machines. No. 1,293,054; Feb. 4; v. 259; p. 20.
- Dowdall, James T., Woodhaven, assignor of one-half to M. Friedman, New York, N. Y. Spool-support. No. 1,315,764; Sept. 9; v. 266; p. 243.
- Dowdell, Albert T. (See Hecht and Dowdell.)
- Dowden, John E., Lake Preston, S. D. Mold for the manufacture of concrete fence-posts. No. 1,293,731; Feb. 11; v. 259; p. 206.
- Dowden, Samuel E., Chelsea, Okla. Power-transmission belt. No. 1,302,330; Apr. 29; v. 261; p. 907.
- Dowdy, Roy F., assignor to Safety Gas Lighter Corporation, Roanoke, Va. Electric gas-lighter. No. 1,295,285; Feb. 25; v. 259; p. 625.
- Dowdy, Roy F., assignor to Safety Gas Lighter Corporation, Roanoke, Va. Electric gaslighter. No. 1,312,622; Aug. 12; v. 265; p. 176.
- Dowe, Arthur W., San Francisco, Calif. Differential car wheel and axle. No. 1,316,087; Sept. 16; v. 266; p. 318.
- Dowe, Arthur W., San Francisco, Calif. Padlock. No. 1,326,394; Dec. 30; v. 269; p. 755.
- Dowle, Frederick J., Walkerville, assignor to G. W. McFarlane, Paris, Ontario, Canada. Pipe-wrench. No. 1,325,628; Dec. 23; v. 269; p. 575.
- Dowler, Lawrence, Dayton, Ohio. Bottle. No. 1,321,016; Nov. 4; v. 268; p. 124.
- Dowling, Francis J., New York, N. Y. Flush-tank valve. No. 1,300,138; Apr. 8; v. 261; p. 372.
- Down, Sidney G. (See Stewart and Down.)
- Down, Sidney G., Berkeley, Cal., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pressure-retaining device. No. 1,295,012; Feb. 18; v. 259; p. 540.
- Downer, Basil G., assignor of one-half to G. H. Hines, South Bend, Ind. Attachment for moving-picture machines. No. 1,307,541; June 24; v. 263; p. 527.
- Downer, Clarence L., Idaho Falls, Idaho. Internal combustion engine. No. 1,313,170; Aug. 12; v. 265; p. 285.
- Downer, F. M., et al. (See Cruthers, Ellery M., assignor.)
- Downer, Joseph E., Allenport, Pa. Journal for car-wheels. No. 1,309,467; July 8; v. 264; p. 297.
- Downes, Louis W., assignor to D & W Fuse Company, Providence, R. I. Yarn-spinning machine and method. No. 1,298,475; Mar. 25; v. 260; p. 673.
- Downes, Louis W., and W. S. Mayer, assignor to D & W Fuse Company, Providence, R. I. Float-controlled switch. No. 1,307,189; June 17; v. 263; p. 429.
- Downey, Dennis A., Cleveland, Ohio. Street-indicator. No. 1,311,056; July 22; v. 264; p. 658.
- Downey, Thomas F. (See Donald and Downey.)
- Downey, William O., Mount Vernon, Wash. Traction-roller. No. 1,292,273; Jan. 21; v. 258; p. 597.
- Downham, Cora M., Beloit, Wis. Coffee-percolator. No. 1,306,688; June 17; v. 263; p. 338.
- Downie, James H., San Antonio, Tex. Impression-plate. No. 1,303,545; May 13; v. 262; p. 228.
- Downie, Robert O., Minneapolis, Minn. Flying-machine. No. 1,308,054; July 1; v. 264; p. 9.
- Downing, Alfred J., Toronto, Ontario, Canada. Package-tie. No. 1,294,886; Feb. 18; v. 259; p. 513.
- Downing, Benjamin F. (See Rudstrom and Downing.)
- Downing, Edward, San Francisco, Calif. Automobile-bumper. No. 1,303,267; May 13; v. 262; p. 178.
- Dwelling, Elsworth, Collins, Iowa. Hog-ringing crate. No. 1,301,408; Apr. 22; v. 261; p. 701.



- Downing, Eugene B., New York, N. Y. Development of exposed sensitized mediums. No. 1,302,777; May 6; v. 262; p. 56.
- Downing, Hiram, Spokane, Wash. Animal-trap. No. 1,317,866; Oct. 7; v. 267; p. 39.
- Downing, Ira S., and E. S. Pearce, Indianapolis, Ind. Journal-lubricating device. No. 1,302,021; Apr. 29; v. 261; p. 849.
- Downing, Philip B., Fyereett, Mass. Currency-counting tray. No. 1,313,074; Aug. 12; v. 265; p. 264.
- Downs, Charles R. (See Weiss and Downs.)
- Downs, Charles R., Cliffside, N. J., assignor to The Barrett Company. Dehydration of pyridin. No. 1,290,124; Jan. 7; v. 258; p. 27.
- Downs, Charles R., Cliffside, N. J., assignor to The Barrett Company. Sulfonation of hydrocarbons. No. 1,301,785; Apr. 22; v. 261; p. 774.
- Downs, Charles R., Cliffside, N. J., assignor to The Barrett Company. Treating hydrocarbons. No. 1,303,639; May 13; v. 262; p. 245.
- Downs, Charles R., Cliffside, N. J., assignor to The Barrett Company. Sulfonation of hydrocarbons with SO<sub>2</sub>. No. 1,321,994; Nov. 18; v. 268; p. 422.
- Downs, Fred B., New Castle, Pa., assignor to Pennsylvania Iron and Steel Products Company, Ellwood City, Pa. Metallic receptacle and chime therefor. No. 1,323,254; Dec. 2; v. 269; p. 6.
- Downs, George F., Buffalo, N. Y. Open-hearth furnace. No. 1,308,404; July 1; v. 264; p. 73.
- Downs, George F., Buffalo, N. Y. Water-cooled door for furnaces. No. 1,312,168; Aug. 5; v. 265; p. 59.
- Downs, John H., Jersey City, N. J. Submarine bomb. No. 1,290,125; Jan. 7; v. 258; p. 27.
- Downs, John H., Jersey City, N. J. Post-driving head. No. 1,301,666; Apr. 22; v. 261; p. 749.
- Downs, Joseph H., Woodburn, Ind. Internal-combustion engine. No. 1,315,290; Sept. 9; v. 266; p. 159.
- Dowson, Joseph, and T. Yamada, Honolulu, Hawaii. Can-stamping machine. No. 1,303,042; May 6; v. 262; p. 107.
- Doyle, Ambrose S., Sharon, Mass. Mine-field puzzle. No. 1,297,451; Mar. 18; v. 260; p. 429.
- Doyle, Clarence V., New York, N. Y. Lock. No. 1,295,450; Feb. 25; v. 259; p. 664.
- Doyle, Frank H., and J. Wallace, San Francisco, Cal., assignors to Safety Graph Educational Film Company, Inc., Reno, Nev. Projector. No. 1,291,793; Jan. 21; v. 258; p. 478.
- Doyle, Fred O., St. Louis, Mo. Automatic fire-lighter. No. 1,321,995; Nov. 18; v. 268; p. 422.
- Doyle, George S. (See Brooks and Doyle.)
- Dozier, James C., Baton Rouge, La. Drier. No. 1,310,858; July 2; v. 264; p. 621.
- Doyle, James S., Mount Vernon, R. E. Kerins, New York, and G. Keegan, Kew Gardens, N. Y. Coin-registering mechanism. No. 1,294,637; Feb. 18; v. 259; p. 454.
- Doyle, John, Hoboken, N. J. Violin-holder. No. 1,315,015; Sept. 2; v. 266; p. 100.
- Doyle, John F., Taunton, Mass. Method of and apparatus for beaming yarn. No. 1,301,665; Apr. 22; v. 261; p. 749.
- Doyle, John F., Jr., Garden City, N. Y. Flushing apparatus for water-closets. No. 1,292,444; Jan. 28; v. 258; p. 659.
- Doyle, R. M. (See Hicks, William D., assignor.)
- Doyle, John W., Seattle, Wash. Flue-cutter. No. 1,316,145; Sept. 16; v. 266; p. 329.
- Doyle, Thomas J., Los Angeles, Calif. Educational and amusement device. No. 1,321,292; Nov. 11; v. 268; p. 240.
- Doyle, William J., assignor to The Monitor Stove Company, Cincinnati, Ohio. Wall-register for pipeless furnaces. No. 1,318,328; Oct. 7; v. 267; p. 128.
- Doyle, Wilson L. (See Petersen, William A., assignor.)
- Dozier, Albert, Detroit, Mich. Mechanical outfit for lathers and carpenters. No. 1,292,728; Jan. 28; v. 258; p. 727.
- Drab, Frank A., Chicago, Ill. Fire-door. No. 1,315,659; Sept. 9; v. 266; p. 225.
- Drach, Edward E., Denver, Colo. Vehicle-wheel. No. 1,292,729; Jan. 28; v. 258; p. 728.
- Dräger, Lloyd H., assignor to T. L. Smith Company, Milwaukee, Wis. Discharge-spout for concrete-mixers. No. 1,308,148; July 1; v. 264; p. 26.
- Drägerwerk, Heintz & Bernh. Dräger, (See Stelzner, Hermann, assignor.)
- Drake, Alden M. (See Heald and Drake.)
- Drake, Alfred E. (See Drake, Orange M. and A. E.)
- Drake, Bryant S. (See Vale, Ronning, and Drake.)
- Drake, Charles R., and T. H. Bishop, assignors to Linetime Manufacturing Co., Inc., Rochester, N. Y. Copy-holder. No. 1,290,933; Jan. 14; v. 258; p. 247.
- Drake, James J. (See Drake, Walter H. and J. J.)
- Drake, John A., Detroit, assignor of one-half to E. E. Ewelch, Corona, Mich. Power-transmission device. No. 1,293,732; Feb. 11; v. 259; p. 206.
- Drake, Linton O., Iron City, Ga. Gearing for seeders. No. 1,321,293; Nov. 11; v. 268; p. 240.
- Drake, Ora, assignor to A. L. Lawrence, trustee, Cleveland, Ohio. Suction-cleaner. No. 1,291,802; Jan. 21; v. 258; p. 480.
- Drake, Orange M. and A. E., American Falls, Ind. Steering device. No. 1,290,126; Jan. 7; v. 258; p. 27.
- Drake, Richard, Racine, Wis., assignor to The American Manufacturers Sales Company. Tobacco-can. No. 1,305,256; June 3; v. 263; p. 5.
- Drake, Samuel H. (See Seagers and Drake.)
- Drake, Samuel S., assignor of one-half to R. H. Johnson, Boise, Ind. Fishing-tool. No. 1,290,127; Jan. 7; v. 258; p. 28.
- Drake, Walter H., San Francisco, Calif. Manufacturing articles from pulp. No. 1,305,203; May 27; v. 262; p. 615.
- Drake, Walter H., Cleveland, Ohio. Receptacle-closure. No. 1,325,930; Dec. 23; v. 269; p. 632.
- Drake, Walter H. and J. J., Cleveland, Ohio. Apparatus for making articles from pulp. No. 1,326,582; Dec. 30; v. 269; p. 791.
- Drake, Whittlesey A., Warren, Ohio, and F. M. Stevenson, Sharon, Pa., assignors to The Pennsylvania Tank Car Company, Sharon, Pa. Center sill for cars. No. 1,290,934; Jan. 14; v. 258; p. 247.
- Drakenfeld, Bernard F., Jr., New York, N. Y. Glass and making the same. No. 1,303,268; May 13; v. 262; p. 178.
- Drakenfeld, Bernard F., Jr., New York, N. Y. Glass and making the same. No. 1,303,269; May 13; v. 262; p. 178.
- Draper, Charles F., Lancaster, Pa. Mounting for cutter-head knives. No. 1,294,638; Feb. 18; v. 259; p. 454.
- Draper, Charles F., Lancaster, Pa. Cutter-sharpener. No. 1,296,054; Mar. 4; v. 260; p. 54.
- Draper, Charles H., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Sheet-metal container. No. 1,303,175; May 6; v. 262; p. 133.
- Draper, Clare H., and J. Northrop, assignors to Hope-dale Manufacturing Company, Milford, Mass. Automatic loom. No. 1,320,608; Nov. 4; v. 268; p. 47.
- Draper Corporation. (See Ballou, Eugene H., assignor.)
- Draper Corporation. (See Benjamin, George H., assignor.)
- Draper Corporation. (See Blouin, Alfred, assignor.)
- Draper Corporation. (See Brazeil, Thomas F., assignor.)
- Draper Corporation. (See Carter, Thomas, assignor.)
- Draper Corporation. (See Davis, Frank B., assignor.)
- Draper Corporation. (See Davis, Harry A., assignor.)
- Draper Corporation. (See Dempsey, William A., assignor.)
- Draper Corporation. (See Ferguson, Thomas, assignor.)
- Draper Corporation. (See Gelinas, Raphael H., assignor.)
- Draper Corporation. (See Green, John C., assignor.)
- Draper Corporation. (See Hebert, Ubald, assignor.)
- Draper Corporation. (See Jamieson, Robert, assignor.)
- Draper Corporation. (See Kimball, Harry G., assignor.)
- Draper Corporation. (See Lacey, Fred, assignor.)
- Draper Corporation. (See Landry, Onesime, assignor.)
- Draper Corporation. (See Leonard, Harry A., assignor.)
- Draper Corporation. (See Lussier, Henry, assignor.)
- Draper Corporation. (See Marshall, James F., assignor.)
- Draper Corporation. (See Marshall and Knowlton, assignors.)
- Draper Corporation. (See Merrill, Charles F., assignor.)
- Draper Corporation. (See Nutting, Charles E., assignor.)
- Draper Corporation. (See Osgood, Dana, assignor.)
- Draper Corporation. (See Owen, Henry A., assignor.)
- Draper Corporation. (See Owen, Herbert W., assignor.)
- Draper Corporation. (See Quinton, William W., assignor.)
- Draper Corporation. (See Rhoades, Alonzo E., assignor.)
- Draper Corporation. (See Stafford, A. E., assignor.)
- Draper Corporation. (See Stafford, Alfred E., assignor.)
- Draper Corporation. (See Stimpson, Edward S., assignor.)
- Draper Corporation. (See Walsh, William E., assignor.)
- Draper Corporation. (See Warren, Charles H., assignor.)
- Draper, John M., Bridgend, England. Apparatus for the separation of substances of different specific gravities, such as fine coal or ores and the like. No. 1,323,174; Nov. 25; v. 268; p. 697.
- Draper Manufacturing Company, The. (See Draper, Charles H., assignor.)
- Drasser, George H., Jr., Brooklyn, assignor to L. B. Koch, New York, N. Y. Cinematographic target. No. 1,311,383; July 29; v. 264; p. 752.
- Draudt, Benjamin R. (See Weishaar and Draudt.)
- Draver, Emil R., Richmond, Ind. Transmission mechanism for feeders connected in gangs. No. 1,296,637; Mar. 11; v. 260; p. 220.
- Draver, Emil R., Richmond, Ind. Feed-regulator. No. 1,307,349; June 24; v. 263; p. 492.
- Draver, Emil R., Richmond, Ind. Wheel-carrier. No. 1,311,267; July 29; v. 264; p. 730.
- Draver, Emil R., Richmond, Ind. Wheel-carrier. No. 1,320,382; Nov. 4; v. 268; p. 5.
- Draver, Emil R., Richmond, Ind. Wheel carrier and receptacle. No. 1,321,017; Nov. 4; v. 268; p. 124.
- Draver, Emil R., Richmond, Ind. Wheel-carrier. No. 1,322,678; Nov. 25; v. 268; p. 603.
- Draver, Emil R., Richmond, Ind. Carrier for demountable rims. No. 1,322,679; Nov. 25; v. 268; p. 603.
- Draver, Emil R., Richmond, Ind. Wheel-carrier. No. 1,322,680; Nov. 25; v. 268; p. 603.
- Dray, William J., New York, N. Y. Grate-cleaning device. No. 1,318,852; Oct. 14; v. 267; p. 288.



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- Drayton, Theophilus J. B., New Brighton, England. Internal-combustion engine. No. 1,290,935; Jan. 14; v. 258; p. 247.
- Dreeland, Walter E., New York, N. Y. Letter-box. No. 1,326,714; Dec. 30; v. 269; p. 815.
- Drefflein, Henry A., Chicago, Ill. Injector. No. 1,321,996; Nov. 18; v. 268; p. 423.
- Dreier, Abraham, New York, N. Y. Cover. No. 1,298,678; Apr. 1; v. 261; p. 12.
- Dreis, Nikolaus S., St. Cloud, Minn. Automobile-lock. No. 1,312,435; Aug. 5; v. 265; p. 109.
- Drenchko, Tony, Franklin, Pa. Pencil-holding attachment. No. 1,294,247; Feb. 11; v. 259; p. 328.
- Dreschel, George H. (See Stoll, George W., assignor.)
- Dreschel, George H. (See Stoll and Dreschel.)
- Dresher, Andrew, Wapakoneta, Ohio. Fish-stop. No. 1,291,445; Jan. 14; v. 258; p. 365.
- Dresher, Andrew, Wapakoneta, Ohio. Funnel. No. 1,303,270; May 13; v. 262; p. 178.
- Dressel, Oskar. (See Heymann, Dressel, Kothe, and Osenbeck.)
- Dresser, Carrie K., Lyndon Center, Vt. Folding clothes-line. No. 1,293,055; Feb. 4; v. 259; p. 20.
- Dresser, Charles A. (See Walser and Dresser.)
- Dresser, Charles J., Toledo, Ohio. Car-door seal. No. 1,311,500; July 29; v. 264; p. 774.
- Dressmann, Robert, Covington, Ky. Tire-tool. No. 1,325,281; Dec. 16; v. 269; p. 494.
- Drew, Clement S. (See Hinchley and Drew.)
- Drew, Edward J., Detroit, Mich. Air-filter for wall-registers. No. 1,319,763; Oct. 28; v. 267; p. 510.
- Drew, George W., Oakland, Calif. Coiling-closure. No. 1,295,712; Feb. 25; v. 259; p. 725.
- Drew, Herbert H., Edgerton, Wis. Gate-latch. No. 1,322,883; Nov. 25; v. 268; p. 641.
- Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Piston-rod packing. No. 1,310,983; July 22; v. 264; p. 644.
- Drew, James C., New Orleans, La. Trailer. No. 1,305,995; June 10; v. 263; p. 174.
- Drew, Leonard S., New York, N. Y., assignor to J. G. Williams, Boston, Mass. Pocket signal-chart. No. 1,311,682; July 29; v. 264; p. 807.
- Drew, Samuel J., San Jose, Calif. Window or wind-shield protector. No. 1,319,516; Oct. 21; v. 267; p. 441.
- Drew, William F., Oakland, Calif. Drive mechanism. No. 1,306,330; June 10; v. 263; p. 239.
- Drew, William F., Oakland, Calif. Electric keyboard for calculating-machines, type-writing machines, and the like. No. 1,311,384; July 29; v. 264; p. 752.
- Drewes, Charles J., New York, N. Y. Dispensing apparatus. No. 1,296,172; Mar. 4; v. 260; p. 82.
- Drewes, Johannes, Gideon, near Groningen, Netherlands. Power-press for bending plates or metal sheets. No. 1,300,074; Apr. 15; v. 261; p. 518.
- Drewry, Thomas, Forest Gate, assignor to J. Stone and Company, Limited, Deptford, England. Expansion-joint. No. 1,302,022; Apr. 29; v. 261; p. 849.
- Drewry, Thomas, Forest Gate, assignor to J. Stone and Company Limited, Deptford, England. Expansion-joint. No. 1,302,778; May 6; v. 262; p. 56.
- Dreys, Edward H. (See Morrick and Dreys.)
- Dreys, Frank W., Willmar, Minn. Wrench. No. 1,311,801; July 29; v. 264; p. 830.
- Dreys, Hans J., San Francisco, Calif. Firearm-projector. No. 1,314,951; Sept. 2; v. 266; p. 87.
- Dreysen, Viggo, Brooklyn, assignor to West Virginia Pulp & Paper Company, New York, N. Y. Treating waste sulfite liquors, &c. No. 1,298,476; Mar. 25; v. 260; p. 673.
- Dreysen, Viggo, Brooklyn, assignor to West Virginia Pulp & Paper Company, New York, N. Y. Treating waste sulfite liquors, &c. No. 1,298,477; Mar. 25; v. 260; p. 674.
- Dreysen, Viggo, Brooklyn, assignor to West Virginia Pulp & Paper Company, New York, N. Y. Production of acetates from waste soda liquors, &c. No. 1,298,478; Mar. 25; v. 260; p. 674.
- Dreysen, Viggo, Brooklyn, assignor to West Virginia Pulp & Paper Company, New York, N. Y. Treatment of waste liquors from soda pulp processes, &c. No. 1,298,479; Mar. 25; v. 260; p. 674.
- Dreysen, Viggo, Brooklyn, assignor to West Virginia Pulp & Paper Company, New York, N. Y. Causticized lignous acetate material and making the same. No. 1,298,480; Mar. 25; v. 260; p. 674.
- Dreysen, Viggo, Brooklyn, assignor to West Virginia Pulp & Paper Company, New York, N. Y. Treatment of waste soda liquors. No. 1,298,481; Mar. 25; v. 260; p. 674.
- Dreysen, Viggo, Brooklyn, assignor to West Virginia Pulp & Paper Company, New York, N. Y. Ligno tanning material and producing the same from waste sulfite liquor, &c. No. 1,303,176; May 6; v. 262; p. 133.
- Dreysen, Viggo, Brooklyn, assignor to West Virginia Pulp & Paper Company, New York, N. Y. Producing ligno tanning material from waste sulfite liquors, &c. No. 1,303,177; May 6; v. 262; p. 133.
- Drexler, John, and J. Hollo, Toledo, Ohio. Advertising device. No. 1,290,724; Jan. 7; v. 258; p. 172.
- Drexler, John, and J. Hollo, Toledo, Ohio. Toy automobile. No. 1,292,445; Jan. 28; v. 258; p. 659.
- Drexler, William F., and E. Bessler, Morton, Ill. Traction-vehicle. No. 1,306,884; June 17; v. 263; p. 374.
- Drey Automatic Glass Machine Company. (See Schram, Alexander L., assignor.)
- Dreyfus, Henry, Basel, Switzerland. Manufacture of acetic acid from acetaldehyde. No. 1,308,173; July 1; v. 264; p. 31.
- Dreyfus, Henry, Basel, Switzerland. Manufacture of acetic aldehyde. No. 1,310,743; July 22; v. 264; p. 600.
- Dreyfus, Henry, Basel, Switzerland. Manufacture of acetic aldehyde. No. 1,310,984; July 22; v. 264; p. 644.
- Dreyfus, Henry, Basel, Switzerland. Manufacture of unflammable celluloid. No. 1,325,931; Dec. 23; v. 269; p. 632.
- Dreyfus, Henry, London, England. Manufacture of non-flammable celluloid. No. 1,315,480; Sept. 9; v. 266; p. 194.
- Dreyling, Alfred, Maurer township, Middlesex county, N. J., assignor of twenty-five one-hundredths to W. C. Locke, Stamford, Conn. Reinforced shoe. No. 1,305,782; June 3; v. 263; p. 104.
- Driesslein, Homer S., Fort Dodge, Iowa. Savings device. No. 1,299,562; Apr. 8; v. 261; p. 243.
- Driggs, Louis L., New York, N. Y. Combination percussion and time fuse. No. 1,311,792; July 29; v. 264; p. 828.
- Driggs, Louis L., New York, N. Y. Percussion-fuse for shells. No. 1,311,793; July 29; v. 264; p. 828.
- Driggs, Louis L., New York, N. Y. Percussion-fuse. No. 1,311,794; July 29; v. 264; p. 828.
- Driggs, Louis L., New York, N. Y. Shell-fuse. No. 1,311,795; July 29; v. 264; p. 828.
- Driggs, Louis L., New York, N. Y. Breech-loading gun. No. 1,321,422; Nov. 11; v. 268; p. 265.
- Driggs Ordnance Company. (See Smith, Morris F., assignor.)
- Drill, Clifford, Greenville, Ohio. Tractor. No. 1,319,995; Oct. 28; v. 267; p. 554.
- Drinkern, William H., Beloit, Kans. Apparatus for heating oil-wells. No. 1,309,721; July 15; v. 264; p. 382.
- Drinkwater, Charles M., Kokomo, Ind. Ash-sifting apparatus. No. 1,290,525; Jan. 7; v. 258; p. 124.
- Drinkwater, Charles M., Kokomo, Ind. Ash-sifting apparatus. No. 1,290,725; Jan. 7; v. 258; p. 173.
- Driscoll, Daniel A. (See Selle and Driscoll, assignors.)
- Driscoll, William J. (See Selle and Driscoll, assignors.)
- Driscoll, Winfield S., and W. F. Davis, Gretna, Neb. Current-wheel. No. 1,305,888; June 3; v. 263; p. 124.
- Drissner, Alfred E., assignor to The National-Acme Company, Cleveland, Ohio. Die or tap holder for automatic screw-machines. No. 1,294,428; Feb. 18; v. 259; p. 406.
- Drissner, Alfred E., F. P. Glosch, E. C. Henn, O. A. Smith, and R. Stern, assignors to The National-Acme Company, Cleveland, Ohio. Automatic multiple-spindle screw-machine. No. 1,320,609; Nov. 4; v. 268; p. 47.
- Driver, Charles H., assignor to J. M. Jones, Racine, Wis. Hack-saw-blade adjuster. No. 1,302,643; May 6; v. 262; p. 31.
- Driver, Charles H., Racine, and A. H. Goetz, Mukwonago, assignors to J. M. Jones, Racine, Wis. Power-hacksaw. No. 1,296,933; Mar. 11; v. 260; p. 289.
- Driver, Frank L., Jr., Newark, assignor to Driver-Harris Company, Harrison, N. J. Electric-resistance element and alloy therefor. No. 1,321,294; Nov. 11; v. 268; p. 240.
- Driver-Harris Company. (See Driver, Frank L., Jr., assignor.)
- Driver, J. et al. (See Hawley, Royal A., assignor.)
- Driver, John F., Woodburn, Ind. Metallic railway-tie. No. 1,321,018; Nov. 4; v. 268; p. 125.
- Drlica, Ferdinand, assignor of one-half to F. Best, Detroit, Mich. Automobile-hood. No. 1,304,751; May 27; v. 262; p. 530.
- Droege, Frederick J., Covington, Ky. Apparatus for casting steel ingots. No. 1,299,148; Apr. 1; v. 261; p. 121.
- Droege, Oscar E., Pompton Lakes, N. J., and G. A. Robinson, New York, N. Y. Expansion socket or plug. No. 1,296,374; Mar. 4; v. 260; p. 126.
- Droege, Oscar E., Pompton Lakes, N. J., and G. A. Robinson, New York, N. Y. Toy cannon. No. 1,306,584; June 10; v. 263; p. 285.
- Droege, Oscar E., Pompton Lakes, N. J., and G. A. Robinson, New York, N. Y. Holder. No. 1,306,585; June 10; v. 263; p. 285.
- Drohoivith, Clemens, Baltimore, Md. Tent construction. No. 1,295,713; Feb. 25; v. 259; p. 725.
- Droitcour, Michael A., Delphos, Ohio. Mechanism for registering sheets. No. 1,299,920; Apr. 8; v. 261; p. 324.
- Droitcour, Michael A., Delphos, Ohio. Sheet-delivery mechanism. No. 1,303,040; May 6; v. 262; p. 107.
- Droitcour, Michael A., Delphos, Ohio. Sheet-delivery mechanism. No. 1,303,041; May 6; v. 262; p. 107.
- Droll, Joseph W., Oakland, Calif. Mattress-roll-forming machine. No. 1,300,139; Apr. 8; v. 261; p. 372.
- Droll, Joseph W., Oakland, Calif. Mattress-roll-forming machine. No. 1,300,140; Apr. 8; v. 261; p. 372.



*Alphabetical list of patentees—Continued.*

- Dron, Andrew P., and G. W. Wilson, Fresno, Cal. Non-leaking bearing for revolving shafts. No. 1,295,974; Mar. 4; v. 260; p. 35.
- Droste, Casper M., Grand Rapids, Mich. Torpedo-guard for ships. No. 1,294,065; Feb. 11; v. 259; p. 285.
- Droste, Maria H. P., Manati, Porto Rico. Bed attachment. No. 1,291,794; Jan. 21; v. 258; p. 478.
- Drouilly, Eugene, Paris, France. Cutting and piling up thin aluminium sheets. No. 1,296,934; Mar. 11; v. 260; p. 289.
- Drucker, Samuel, and W. Sieck, Jr., Chicago, Ill. Laboratory apparatus. No. 1,320,323; Oct. 28; v. 267; p. 615.
- Drufva, John T., Longmeadow, Mass., assignor to Henry Hyman & Co. Inc., New York, N. Y. Portable electric light. No. 1,320,846; Nov. 4; v. 268; p. 92.
- Drugas, Peter, Chicago, Ill. Broom for street-sweeping machines. No. 1,295,136; Feb. 25; v. 259; p. 592.
- Drugociu, Nicholas, Detroit, Mich. Cabinet. No. 1,295,137; Feb. 25; v. 259; p. 592.
- Druitt, Percy W., and W. R. Gilpin, assignors to E. H. Allen and A. F. De Fonblanc, London, England. Keyboard mechanism of typographic composing and casting machines. No. 1,325,397; Dec. 16; v. 269; p. 515.
- Drumm, Herbert C., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Bottom board for foundry-flasks. No. 1,321,812; Nov. 18; v. 268; p. 389.
- Drummond, Charles W., San Francisco, Calif. Kaleidoscope. No. 1,313,848; Aug. 19; v. 265; p. 427.
- Drummond, Joseph W., Chillicothe, Ohio. Spark-plug. No. 1,307,088; June 17; v. 263; p. 411.
- Drury, Clair F., Davenport, Iowa. Fountain-brush. No. 1,317,437; Sept. 30; v. 266; p. 657.
- Druse, Warren D., Farmington, Mo. Making tires. No. 1,319,575; Oct. 21; v. 267; p. 452.
- Dryden, William W., Philadelphia, Pa. Electric switch. No. 1,320,677; Nov. 4; v. 268; p. 59.
- Dryen, Achille, assignor to Societe Anonyme Fabrique de Soie Artificielle de Tubize, Tubize, Belgium. Concentration of sulfuric acid. No. 1,323,847; Dec. 2; v. 269; p. 117.
- Dryer, Lewis G., Cattaraugus, N. Y. Tractor attachment. No. 1,313,677; Aug. 19; v. 265; p. 394.
- Drying Products Co. Ltd. A/S. (See Glidie, Albert, assignor.)
- Dryssen, Waldemar, New York, N. Y. Electrode-furnace. No. 1,317,911; Oct. 7; v. 267; p. 47.
- Du Bois, Clarence L., Woodbury, and W. Payne, Philadelphia, Pa., assignors to The Industrial Manufacturing Company, Camden, N. J. Sewing-machine. No. 1,304,861; May 27; v. 262; p. 550.
- Du Bois, Edward J. and G. C., assignors to Dubois Machine Shop, Inc., Albany, N. Y. Tool-support for lathes. No. 1,323,682; Dec. 2; v. 269; p. 86.
- Du Bois, George C. (See Du Bois, Edward J. and G. C.)
- Du Bois, John J., Detroit, Mich. Eraser-reel. No. 1,299,921; Apr. 8; v. 261; p. 325.
- Du Bois, Marcy J., assignor to Passaic Metal Ware Company, Passaic, N. J. Container. No. 1,303,465; May 13; v. 262; p. 213.
- Du Bois, Thomas R., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamo-electric machine. No. 1,318,853; Oct. 14; v. 267; p. 288.
- Du Bose, Benjamin J., Lisbon, Ga. Device for chilling and drying air. No. 1,300,705; Apr. 15; v. 261; p. 519.
- Du Brau, Gustave H., Holyoke, Mass. Stop-motion. No. 1,326,715; Dec. 30; v. 269; p. 815.
- Du Brul, Napoleon, assignor to The Miller, Du Brul and Peters Manufacturing Co., Cincinnati, Ohio. Continuous cigarette-machine. No. 1,312,525; Aug. 12; v. 265; p. 156.
- Du Charme, William S., Cleveland, Ohio. Pipe-wrench. No. 1,293,734; Feb. 11; v. 259; p. 207.
- Du Charme, William S., Cleveland, Ohio. Wrench. No. 1,293,735; Feb. 11; v. 259; p. 207.
- Du Chesne, Harry F., assignor of one-half to H. F. Woster, Cincinnati, Ohio. Valve for hot-air accelerators. No. 1,291,795; Jan. 21; v. 258; p. 478.
- Du Coteau, Gaston L. R., Becon-les-Bruyeres, France. Coin-fed apparatus. No. 1,318,854; Oct. 14; v. 267; p. 289.
- Du Lac, E., et al. (See Auger, Joseph T., assignor.)
- Du Laney, James A., Seattle, Wash. Band-saw. No. 1,296,488; Mar. 4; v. 260; p. 150.
- Du Mazuel, Edmond G. F. R., Washington, D. C. Foliating shell. No. 1,313,940; Aug. 26; v. 265; p. 478.
- Du Pont, Antoine B., Cleveland, Ohio. Water-heater. No. 1,299,438; Apr. 8; v. 261; p. 215.
- Du Pont, Eleuthere P. (See Du Pont, Francis I. and E. P.)
- Du Pont, Eleuthere P., Montchanin, Del. Power-driver for agricultural implements. No. 1,291,801; Jan. 21; v. 258; p. 480.
- Du Pont, Ernest, assignor to Ball Grain Explosives Company, Wilmington, Del. Manufacturing pellets of explosive material. No. 1,295,975; Mar. 4; v. 260; p. 36.
- Du Pont, Ernest, assignor to Ball Grain Explosives Company, Wilmington, Del. Making explosive black powder. No. 1,308,342; July 1; v. 264; p. 61.
- Du Pont Fabrikoid Company. (See Haon, Harry J., assignor.)
- Du Pont, Francis I., Wilmington, Del. Fuel-burner for steam-generators. No. 1,290,132; Jan. 7; v. 258; p. 29.
- Du Pont, Francis I., Wilmington, Del. Drier for nitro-cellulose. No. 1,301,409; Apr. 22; v. 261; p. 701.
- Du Pont, Francis I., Wilmington, Del. Means to protect submarine-mine fields. No. 1,304,549; May 27; v. 262; p. 493.
- Du Pont, Francis I., Wilmington, Del. Water and steam system for steam-driven automobiles. No. 1,313,676; Aug. 19; v. 265; p. 394.
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Recovering solvent from smokeless powder. No. 1,294,066; Feb. 11; v. 259; p. 285.
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Process of and apparatus for obtaining oxides of nitrogen from atmospheric air. No. 1,311,594; July 29; v. 264; p. 791.
- Du Pont, Francis I., assignor to Ball Grain Explosives Company, Wilmington, Del. Smokeless powder and coating same. No. 1,308,343; July 1; v. 264; p. 61.
- Du Pont, Francis I., assignor to Ball Grain Explosives Company, Wilmington, Del. Making smokeless powder. No. 1,308,344; July 1; v. 264; p. 61.
- Du Pont, Francis I., assignor to Ball Grain Explosives Company, Wilmington, Del. Explosive charge for the central tubes of shrapnel-shells. No. 1,308,345; July 1; v. 264; p. 62.
- Du Pont, Francis I., Wilmington, and E. P. Du Pont, Montchanin, assignors to Ball Grain Explosives Company, Wilmington, Del. Making smokeless powder. No. 1,308,346; July 1; v. 264; p. 62.
- Du Pont, Francis I., assignor to Ball Grain Explosives Company, Wilmington, Del. Preparing explosive charges for shells. No. 1,308,347; July 1; v. 264; p. 62.
- Du Pont, Francis V., Wilmington, Del. Toy machine-gun. No. 1,302,332; Apr. 29; v. 261; p. 907.
- Du Rousset, René F. D., and C. E. Brandt, Paris, France. Electrical condenser. No. 1,292,589; Jan. 28; v. 258; p. 695.
- Du Vall, Mycogoh. (See Bartlett and Du Vall.)
- Duaine, Joseph E., West De Pere, Wis. Tractor. No. 1,302,023; Apr. 29; v. 261; p. 849.
- Dubbs, Edward, Mayflower, assignor of one-half to J. D. Dunaway and P. T. Tally, Conway, Ark. Mail-box. No. 1,315,914; Sept. 9; v. 266; p. 272.
- Dubbs, Leland A., Independence, Kans., assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbon oils. No. 1,319,053; Oct. 21; v. 267; p. 352.
- Duberstein, Isadore, Chicago, Ill. Garment-hanger. No. 1,321,997; Nov. 18; v. 268; p. 423.
- Dubilier, Philip. (See Dubilier, William and P.)
- Dubilier, William and P., New York, N. Y. Electrical-discharge-producing device. No. 1,307,854; June 24; v. 263; p. 583.
- Dubois Machine Shop. (See Du Bois, Edward J. and G. C., assignors.)
- Dubois Watch Case Company. (See Dunham, Charles A., assignor.)
- Dubois Watch Case Company. (See Fuller, George T., assignor.)
- Dubois Watch Case Company. (See Tough, James C., assignor.)
- Dubosh, John P., Fall River, Mass. Container for string-nails. No. 1,307,042; June 17; v. 263; p. 403.
- Dubosh, John P., Fall River, Mass. Device for driving or positioning nails or the like where desired. No. 1,307,043; June 17; v. 263; p. 403.
- Dubrava, John J. (See Mezera and Dubrava.)
- Dubrow, Fredrick W., Sausalito, Calif. Artificial fish-bait. No. 1,314,052; Aug. 26; v. 265; p. 500.
- Duby, John F., Boston, Mass. Rotary explosive-engine. No. 1,293,733; Feb. 11; v. 259; p. 207.
- Duby, John F., Boston, Mass. Rotary engine. No. 1,307,066; Apr. 15; v. 261; p. 519.
- Duby, John F., Boston, Mass. Gage for vehicle-wheels. No. 1,324,388; Dec. 9; v. 269; p. 264.
- Ducas, Charles, New York, N. Y., assignor, by mesne assignments, to Lukens Steel Company. Sectional-fire-box construction. No. 1,322,484; Nov. 18; v. 268; p. 515.
- Duchacek, Frank, Paterson, N. J. Jacquard-machine. No. 1,312,779; Aug. 12; v. 265; p. 207.
- Duchemin, René. (See Camus, Duchemin, and Criquebaeuf.)
- Duckham, Harry D., Kenton, Ohio. Hog-oiler. No. 1,306,473; June 10; v. 263; p. 266.
- Duckham, Harry D., and H. J. Pfeiffer, Kenton, Ohio. Ventilator. No. 1,290,936; Jan. 14; v. 258; p. 247.
- Duckworth, Clarence. (See Kralund, Duckworth, and Stern.)
- Duckworth, Kay, Providence, R. I. Spray-nozzle. No. 1,290,526; Jan. 7; v. 258; p. 124.
- Duckworth, Thomas E., Colfax, La. Wheeled scoop. No. 1,308,666; July 1; v. 264; p. 120.
- Duckworth, Thomas E., Colfax, La. Lumber loading and unloading device. No. 1,317,079; Sept. 23; v. 266; p. 553.
- Dudek, Franciszek, Johnstown, Pa. Telescopic bed. No. 1,323,257; Dec. 2; v. 269; p. 6.



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- Dudgeon, Harry A., Coventry, England. Jig device for boring or drilling purposes. No. 1,300,828; Apr. 15; v. 261; p. 545.
- Dudley, Adolphus M., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of speed control for induction-motors. No. 1,296,487; Mar. 4; v. 260; p. 149.
- Dudley, Adolphus M., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil-retaining device for dynamo-electric machines. No. 1,320,126; Oct. 28; v. 267; p. 578.
- Dudley, Andrew T., Houston, Tex. Automatic bale-forming compress. No. 1,305,344; June 3; v. 263; p. 22.
- Dudley, Clarence S., Ypsilanti, Mich. Shipping case or container. No. 1,307,089; June 17; v. 263; p. 411.
- Dudley, Edward F., Oak Park, assignor to Michle Printing Press & Manufacturing Company, Chicago, Ill. Red-motion. No. 1,316,146; Sept. 16; v. 266; p. 329.
- Dudley, George L., Chester, Pa. Change-speed transmission-hub for motorcycles. No. 1,323,031; Nov. 25; v. 268; p. 669.
- Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,301,920; Apr. 29; v. 261; p. 830.
- Dudley, Howard M., Philadelphia, Pa. Fiber-treating device. No. 1,304,862; May 27; v. 262; p. 551.
- Dudley, Howard M., Philadelphia, Pa. Fiber-treating device. No. 1,304,863; May 27; v. 262; p. 551.
- Dudley, Howard M., Philadelphia, Pa. Fabric-treating machine. No. 1,306,529; June 10; v. 263; p. 275.
- Dudley, Howard M., Philadelphia, Pa. Fiber-treating device. No. 1,310,522; July 22; v. 264; p. 559.
- Dudley, Howard M., Philadelphia, Pa. Fabric-steaming device. No. 1,314,791; Sept. 2; v. 266; p. 59.
- Dudley, Howard M., Philadelphia, Pa. Fabric-steaming device. No. 1,317,275; Sept. 30; v. 266; p. 626.
- Dudley, James M., Bessemer, Ala. Ruling attachment for type-writers. No. 1,299,436; Apr. 8; v. 261; p. 215.
- Dudley, Lyle R., San Francisco, Calif. Shock-absorber. No. 1,304,950; May 27; v. 262; p. 567.
- Dudley, Thomas J., Dallas, Tex., and M. H. Bryant, Boswell, Okla., said Bryant assignor to said Dudley. Draft-equalizer. No. 1,317,867; Oct. 7; v. 267; p. 39.
- Duede, Carl H., Stuart, Iowa. Combined comb case and cleaner. No. 1,319,144; Oct. 21; v. 267; p. 371.
- Duer, Charles W., Chicago, Ill. Power-application mechanism for motor-vehicles. No. 1,300,359; Apr. 15; v. 261; p. 445.
- Duerfeldt, H. G. (See Hardy, Homer L., assignor.)
- Duerr, Edgar, Bowdon, England. Rifle attachment. No. 1,290,937; Jan. 14; v. 258; p. 248.
- Duff, Frank C. (See Toll and Duff.)
- Duff Manufacturing Company, The. (See Hindman, Isaiah E., assignor.)
- Duff Manufacturing Company, The. (See Kopf, John C., assignor.)
- Duff, Martha M., Arnold, Pa. Antiskidding attachment for wheels. No. 1,312,436; Aug. 5; v. 265; p. 110.
- Duffee, Harlan N., deceased, Philadelphia, Pa., (J. A. Duffee, administratrix.) A. M. Cummings, Aberdeen, and C. C. Parker, Baltimore, Md. Apparatus for forming and cutting plastic material. No. 1,317,157; Sept. 30; v. 266; p. 604.
- Duffee, Jennie A., administratrix. (See Duffee, Cummings, and Parker.)
- Duffey, Edward J., Seattle, Wash. Grease-gun. No. 1,295,451; Feb. 25; v. 259; p. 664.
- Duffey, George F., assignor to Pacific Porcelain Ware Company, San Francisco, Calif. Urinal. No. 1,304,752; May 27; v. 262; p. 530.
- Duffie, John J., Berkeley, Calif. System of trench warfare. No. 1,302,904; May 6; v. 262; p. 81.
- Duffies, Alfred S., Markesan, Wis., and F. Mead, Chicago, Ill. Cushioned wheel. No. 1,307,809; June 24; v. 263; p. 575.
- Duffy, Charles H., Chevy Chase, Md. Spark-plug. No. 1,301,824; Apr. 29; v. 261; p. 811.
- Duffy, Clarence O., Dallas, Tex. Quick tire-patch for pneumatic tires. No. 1,290,128; Jan. 7; v. 258; p. 28.
- Duffy, James P. B. (See Murphy, Thomas J., assignor.)
- Duffy, Michael J., Brooklyn, N. Y. Record-cabinet. No. 1,322,681; Nov. 25; v. 268; p. 604.
- Duffy, Peter S., assignor to The Bell Talking Machine Corporation, New York, N. Y. Brake mechanism for phonographs. No. 1,291,796; Jan. 21; v. 258; p. 478.
- Duffy, Robert E., Toronto, Ontario, Canada. Oil-burner. No. 1,318,136; Oct. 7; v. 267; p. 90.
- Duffy, Thomas H., Juniata, Pa., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Powdering device. No. 1,321,295; Nov. 11; v. 268; p. 241.
- Duffy, Thomas I., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Lamp-mount for projectors. No. 1,300,360; Apr. 15; v. 261; p. 446.
- Duffy, Thomas I., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Lamp. No. 1,305,258; June 3; v. 263; p. 5.
- Duffy, Thomas I., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Instrument-dial. No. 1,320,383; Nov. 4; v. 268; p. 5.
- Dufour, George H., assignor to Marshall Field & Company, Chicago, Ill. Feeding device for presses. No. 1,313,474; Aug. 19; v. 265; p. 356.
- Dufour, Joseph N. (See Trembley and Dufour.)
- Dufresne, David E., St. Lambert, and W. Adamson, Maisonneuve, Quebec, Canada. Beef-fattening table. No. 1,314,579; Sept. 2; v. 266; p. 20.
- Dufresne, David E., St. Lambert, and W. Adamson, Maisonneuve, Quebec, Canada. Sterilizer. No. 1,315,951; Sept. 16; v. 266; p. 293.
- Dufresne, Jere C., Rahway, N. J. Chuck. No. 1,305,257; June 3; v. 263; p. 5.
- Dufresne, Jere C., Newark, N. J. Tap-chuck. No. 1,315,100; Sept. 2; v. 266; p. 115.
- Dugan, Edward R., Chicago, Ill. Screen for motion-pictures. No. 1,293,380; Feb. 4; v. 259; p. 94.
- Dugan, Thomas H., Jersey City, N. J. Liquid shellac and making same. No. 1,303,782; May 13; v. 262; p. 271.
- Dugan, William, Middletown, Ohio. Necktie-holder. No. 1,315,823; Sept. 9; v. 266; p. 255.
- Dugar, Delano H., Elyria, Ohio. Expandable reamer. No. 1,299,563; Apr. 8; v. 261; p. 243.
- Dugas, Frederic J., Jay, Me., assignor to International Paper Company. Apparatus for facing grindstones. No. 1,308,895; July 8; v. 264; p. 191.
- Duggan, Joseph L., Buffalo, N. Y. Game. No. 1,290,726; Jan. 7; v. 258; p. 173.
- Duggan, William H. (See Gardiner, William, assignor.)
- Dugo, Bernardo. (See Evangelista, Dugo, and Cignarella.)
- Duke, Earle H., and J. D. Brown, Houston, Tex. Device for controlling electric current. No. 1,292,730; Jan. 28; v. 258; p. 728.
- Duke, Edgar, Ashton, Idaho. Beet digging and topping machine. No. 1,306,586; June 10; v. 263; p. 286.
- Duke, John F., Shortlands, England. Nut. No. 1,313,075; Aug. 12; v. 265; p. 263.
- Duke, Lee, Bowling, Ala. Rosin-holder for violins. No. 1,293,736; Feb. 11; v. 259; p. 207.
- Dukelow, John E., Chicago, Ill. Chain driving-belt. No. 1,311,171; Aug. 12; v. 265; p. 283.
- Dukes, William. (See Wright and Dukes.)
- Dukes, William, Birmingham, assignor to The Warland Dual Rim Company, Limited, Aston, Birmingham, England. Road-vehicle wheel. No. 1,315,291; Sept. 9; v. 266; p. 160.
- Dulac, Rozetta E., San Francisco, Cal. Sanitary high-chair tray. No. 1,297,115; Mar. 11; v. 260; p. 329.
- Dulaney, Henry S. (See Spencer, Charles H., assignor.)
- Dull, Raymond A. (See Hale and Dull.)
- Dull, Raymond W., La Grange, Ill. Pan conveyer. No. 1,291,446; Jan. 14; v. 258; p. 365.
- Dull, Raymond W., La Grange, Ill. Troughing belt-pulley. No. 1,295,138; Feb. 25; v. 259; p. 593.
- Dulles, William. (See Proskewy, Winfield S., assignor.)
- Dumarest, Michael L., and C. D. Fischer, Folsom, N. Mex. Attachment for cameras. No. 1,326,038; Dec. 23; v. 269; p. 652.
- Dumas, Mell B., Milwaukee, Wis. Scrubbing-brush. No. 1,310,007; July 15; v. 264; p. 435.
- Dun Lany, William P., assignor to Sears, Roebuck and Co., Chicago, Ill. Doll or the like. No. 1,293,056; Feb. 4; v. 259; p. 20.
- Dunae, Archipp E., assignor of one-half to B. M. Wakeling, Saskatoon, Saskatchewan, Canada. Bag. No. 1,291,797; Jan. 21; v. 258; p. 479.
- Dunaway, J. D., et al. (See Dubbs, Edward, assignor.)
- Dunbar, Benjamin F., Spokane, Wash. Shaving-brush. No. 1,317,562; Sept. 30; v. 266; p. 681.
- Dunbar, Charles J., Kalamazoo, Mich., assignor to Accounting Devices Company, Chicago, Ill. Mechanical posting. No. 1,313,588; Aug. 19; v. 265; p. 378.
- Dunbar, Ernest W., Hudson, and G. Ferguson, Wollaston, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Making turn-shoes. No. 1,325,837; Dec. 23; v. 269; p. 615.
- Dunbar, George B., Detroit, Mich. Plastic composition and making same. No. 1,299,922; Apr. 8; v. 261; p. 325.
- Dunbar, George B., Detroit, Mich. Plastic composition and making same. No. 1,310,180; July 15; v. 264; p. 466.
- Dunbar, Howard W., Worcester, Mass., assignor to Norton Grinding Company. Steady-rest. No. 1,295,286; Feb. 25; v. 259; p. 626.
- Dunbar, Mahlon L., Akron, Ohio. Spark-intensifier. No. 1,326,036; Dec. 23; v. 269; p. 651.
- Dunbar, Mahlon L., Norwalk, Ohio, assignor to The Firex Extinguisher Company, Inc., Akron, Ohio. Fire-extinguisher. No. 1,314,468; Aug. 26; v. 265; p. 579.
- Dunbar Motors and Pulleys Limited. (See Dunbar, William B., assignor.)
- Dunbar, William B., Ashfield, near Sydney, New South Wales, Australia. Variable-speed pulley. No. 1,314,580; Sept. 2; v. 266; p. 20.
- Dunbar, William B., Ashfield, near Sydney, assignor to Dunbar Motors and Pulleys Limited, Sydney, New South Wales, Australia. Variable-speed transmission for motor-vehicles. No. 1,305,077; May 27; v. 262; p. 591.
- Duncan, Alexander, Wheaton, Ill. Golf-club. No. 1,322,182; Nov. 18; v. 268; p. 458.
- Duncan, Arthur T., Clinton, Mo. Cranking device for explosive-engines. No. 1,292,274; Jan. 21; v. 258; p. 597.



- Duncan, Callie, assignor of one-half to J. W. Farlow, Wamie, Oreg. Oil-can. No. 1,291,447; Jan. 14; v. 258; p. 365.
- Duncan, James N., assignor to Dodge Brothers, Detroit, Mich. Automobile-shipping device. No. 1,290,818; Jan. 7; v. 258; p. 194.
- Duncan, John C., Pittsburgh, Pa. Hacksaw. No. 1,292,275; Jan. 21; v. 258; p. 598.
- Duncan, John W., and J. A. Shute, Greenwood, Miss. Mattress attachment. No. 1,312,110; Aug. 5; v. 265; p. 49.
- Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing-device separator for addressing-machines. No. 1,299,437; Apr. 8; v. 261; p. 215.
- Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Hand addressing-machine. No. 1,301,237; Apr. 22; v. 261; p. 667.
- Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,307,119; June 17; v. 263; p. 417.
- Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Ejector for printing-machines. No. 1,319,856; Oct. 28; v. 267; p. 529.
- Duncan, Sylena A., Nesheanic Station, N. J. Portable stove. No. 1,325,694; Dec. 23; v. 269; p. 588.
- Duncan, Thomas S., London, assignor to Vickers Limited, Westminster, England. Mounting for guns carried by aeroplanes and similar craft. No. 1,298,916; Apr. 1; v. 261; p. 69.
- Duncan, Thomas S., assignor to Vickers Limited, Westminster, London, England. Starting of internal-combustion engines. No. 1,309,722; July 15; v. 264; p. 352.
- Duncan, Wayne A., Chicago, Ill. Canning apparatus. No. 1,316,287; Sept. 16; v. 266; p. 356.
- Duncan, William, Fresno, Calif. Brush-rake. No. 1,323,460; Dec. 2; v. 269; p. 45.
- Duncan, William M., Alton, Ill. Furnace-grate. No. 1,297,116; Mar. 11; v. 260; p. 329.
- Duncan, William M., Alton, Ill. Furnace. No. 1,316,880; Sept. 23; v. 266; p. 515.
- Duncan, William M., Alton, Ill. Furnace. No. 1,324,883; Dec. 16; v. 269; p. 420.
- Duncan, William M., Alton, Ill. Furnace. No. 1,324,884; Dec. 16; v. 269; p. 420.
- Duncanson, Vincent E., Lynchburg, Ohio. Eyeglass-holder. No. 1,309,573; July 8; v. 264; p. 318.
- Dundon, John H. (See Raab and Dundon.)
- Dundon, Patrick F., San Francisco, Calif. Retort-door attachment. No. 1,316,943; Sept. 23; v. 266; p. 527.
- Dundon, Patrick F., San Francisco, Calif. Vehicle-wheel attachment. No. 1,316,944; Sept. 23; v. 266; p. 527.
- Dunfee, William J., North Lewisburg, Ohio. Reversible rotary steam-engine. No. 1,305,345; June 3; v. 263; p. 22.
- Dunford, William T., New York, N. Y., assignor to Shurloc Elevator Safety Co., Inc. Elevator-lock. No. 1,291,798; Jan. 21; v. 258; p. 479.
- Dunford, William T., assignor to Shurloc Elevator Safety Company, Inc., New York, N. Y. Safety elevator system. No. 1,293,737; Feb. 11; v. 259; p. 207.
- Dungan, John E., *et al.* (See Kennedy, James W., assignor.)
- Dunham, Charles A., Brooklyn, assignor to Dubois Watch Case Company, New York, N. Y. Watch. No. 1,292,446; Jan. 28; v. 258; p. 659.
- Dunham, Charles L., Pennsboro, W. Va. Underreamer. No. 1,304,167; May 20; v. 262; p. 379.
- Dunham, Charles W., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 1,298,679; Apr. 1; v. 261; p. 13.
- Dunham, Charles W., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 1,322,097; Nov. 18; v. 268; p. 441.
- Dunham Company, The. (See Dunham, Ray E., assignor.)
- Dunham Company, The. (See Karl, George E., assignor.)
- Dunham Company, The. (See Karl, Kolczynski, and Woodin, assignors.)
- Dunham Company, The. (See Woodin, Kolczynski, and Karl, assignors.)
- Dunham, Everett E., Seattle, Wash. Violin. No. 1,303,466; May 13; v. 262; p. 213.
- Dunham, George W. (See Kenen, Leonard C., assignor.)
- Dunham, Harry H., New Salem, Ill. Stock-feeder. No. 1,307,120; June 17; v. 263; p. 417.
- Dunham, Henry V., Mount Vernon, N. Y. Edible-oil preparation. No. 1,302,486; Apr. 29; v. 261; p. 937.
- Dunham, Henry V., Mount Vernon, N. Y. Treating nuts and product thereof. No. 1,307,090; June 17; v. 263; p. 411.
- Dunham, Henry V., Mount Vernon, N. Y. Resinous condensation product and making same. No. 1,324,649; Dec. 9; v. 269; p. 315.
- Dunham, Henry V., Brattleboro, Vt. Medicinal-oil preparation. No. 1,302,487; Apr. 29; v. 261; p. 937.
- Dunham, John R., New Brunswick, N. J. Flexible coupling. No. 1,298,680; Apr. 1; v. 261; p. 13.
- Dunham, Melbourne K., Chicago, Ill. Cutting-torch. No. 1,300,707; Apr. 15; v. 261; p. 519.
- Dunham, Melbourne K., Chicago, Ill. Cutting-torch. No. 1,303,178; May 6; v. 262; p. 133.
- Dunham, Melbourne K., Jersey City, N. J. Apparatus and method of burning combustible gases. No. 1,301,044; Apr. 15; v. 261; p. 592.
- Dunham, Ray E., assignor to The Dunham Company, Berea, Ohio. Land-roller. No. 1,298,482; Mar. 25; v. 260; p. 675.
- Dunhill, Alfred, London, England. Checking and recording the time of workmen and others. No. 1,294,248; Feb. 11; v. 259; p. 329.
- Dunker, Charles H., *et al.*, administrators. (See Shuman, Frank.)
- Dunkinson, Norman G., York, Pa. Universal joint. No. 1,305,259; June 3; v. 263; p. 5.
- Dunkle, Harry L., Washington, D. C. Apparatus for filtering black-ash solutions. No. 1,320,324; Oct. 28; v. 267; p. 615.
- Dunklee, Emory J., Hackensack, N. J. Cloth renapping and refinishing machine. No. 1,304,281; May 20; v. 262; p. 401.
- Dunlap, Elon, Diamond Springs, Calif. Yielding mount for plows and other tools. No. 1,313,802; Aug. 19; v. 265; p. 418.
- Dunlap, Forrest B., assignor of one-half to E. C. Stricker, Tulsa, Okla. Tire-repairing device. No. 1,307,190; June 17; v. 263; p. 429.
- Dunlap, George W., Buffalo, N. Y., assignor to J. G. Brill Company, Philadelphia, Pa. Pinion-puller. No. 1,318,137; Oct. 7; v. 267; p. 91.
- Dunlap, H. E. (See Day, Edgar K., assignor.)
- Dunlap, Jack R. (See Crawford and Dunlap.)
- Dunlap, John S., Chicago, Ill. Coffee-percolator. No. 1,306,415; June 10; v. 263; p. 255.
- Dunlap, Joseph B., Tulsa, Okla. Swing. No. 1,307,774; June 24; v. 263; p. 568.
- Dunlap, Samuel H., Ennis, Tex. Gin-compress. No. 1,305,783; June 3; v. 263; p. 105.
- Dunlop, George T., and J. J. Boobar, assignors to Terminal Taxicab Company, Washington, D. C. Fare-meter installation for automobiles. No. 1,310,907; July 22; v. 264; p. 630.
- Dunlop, Judson, Floral Park, assignor of one-half to W. S. Barnes, New York, N. Y. Type-writing machine. No. 1,293,057; Feb. 4; v. 259; p. 20.
- Dunlop, Judson, Floral Park, assignor of one-half to W. S. Barnes, New York, N. Y. Window-shade. No. 1,307,729; June 24; v. 263; p. 560.
- Dunlop Rubber Company, The. (See Macbeth, Colin, assignor.)
- Dunlop Rubber Company, The. (See Macbeth and Paull, assignors.)
- Dunlop Rubber Company, The. (See Macbeth and Sullivan, assignors.)
- Dunlop Rubber Company, The. (See Macbeth and Willshaw, assignors.)
- Dunlop Rubber Company. (See Macbeth and Young, assignors.)
- Dunn, Charles W., New York, N. Y. Window-sash. No. 1,298,187; Mar. 25; v. 260; p. 612.
- Dunn, Edmund L., assignor of one-third to J. P. Salmon and one-third to E. D. Fitzpatrick, Philadelphia, Pa. Rivet-sorting machine. No. 1,324,650; Dec. 9; v. 269; p. 315.
- Dunn, Henry F., Anderson, Ind., assignor to Toledo Scale Company, Toledo, Ohio. Spring-scale. No. 1,300,141; Apr. 8; v. 261; p. 371.
- Dunn, James A., Saugus, Mass. Article-holder. No. 1,313,803; Aug. 19; v. 265; p. 418.
- Dunn, Jay E., Brooklyn, assignor to Novo Manufacturing Company, New York, N. Y. Electric-battery. No. 1,318,364; Oct. 14; v. 267; p. 195.
- Dunn, Jerry J. (See Offutt, Dunn, and Nicholson.)
- Dunn, John A., Augusta, Ga. Safety switch-lock. No. 1,302,331; Apr. 29; v. 261; p. 907.
- Dunn, John W., Douglas, Ariz. Pump attachment. No. 1,290,129; Jan. 7; v. 258; p. 28.
- Dunn, Michael J., Philadelphia, Pa. Piano construction. No. 1,301,825; Apr. 29; v. 261; p. 811.
- Dunn, Nellie, Escanaba, Mich. Propagation pot or can. No. 1,297,810; Mar. 18; v. 260; p. 506.
- Dunn, Peter S., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,290,130; Jan. 7; v. 258; p. 28.
- Dunn, Rufus C., Vidalia, Ga. Plow. No. 1,309,468; July 8; v. 264; p. 297.
- Dunn, Thomas, London, England. Pneumatic-tire tread. No. 1,315,292; Sept. 9; v. 266; p. 160.
- Dunn, William W., Henderson, N. C., and J. H. Beasley, Norfolk, Va., assignors to Seward Trunk and Bag Company, Petersburg, Va. Wardrobe-trunk lock. No. 1,326,037; Dec. 23; v. 269; p. 652.
- Dunnam, S. E., *et al.* (See Lawrence, William P., assignor.)
- Dunne, David M., *et al.* (See Hogg, Frederic W., assignor.)
- Dunnell, William, Detroit, Mich. Cuspidor. No. 1,292,447; Jan. 28; v. 258; p. 660.
- Dunner, Julius, Brooklyn, N. Y. Hair-comb. No. 1,311,330; July 29; v. 264; p. 742.
- Dunning, Angèle M., San Francisco, Calif. Safety-strap for babies. No. 1,326,716; Dec. 30; v. 269; p. 815.



## Alphabetical list of patentees—Continued.

- Dunning, Herschell C., Wallonia, Ky. Subsoiler attachment for plows. No. 1,323,032; Nov. 25; v. 268; p. 669.
- Dunning, Parker, Schenectady, N. Y., assignor to General Electric Company. Lock for switches of the like. No. 1,290,938; Jan. 14; v. 258; p. 248.
- Dunning, Robson, Schenectady, N. Y. Oil-drill. No. 1,326,327; Dec. 30; v. 269; p. 742.
- Dunnuck, Aionzo G., Concordia, Kans. Road-working machine. No. 1,308,174; July 1; v. 264; p. 31.
- Dunphy, James A., Groton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Rubber-soled shoe and making the same. No. 1,316,562; Sept. 23; v. 266; p. 457.
- Dunphy, Thomas F., Williamsburg, Mass., assignor to The Haydenville Company, Haydenville, N. J. Self-closing faucet. No. 1,291,799; Jan. 21; v. 258; p. 479.
- Dunsdon, Harry L., McElroy, Mont. Letter-sheet guide. No. 1,290,131; Jan. 7; v. 258; p. 28.
- Dunwoody, Robson, New Orleans, La. Process of and apparatus for distilling crude pine-resins. No. 1,291,800; Jan. 21; v. 258; p. 480.
- Dunwoody, Robson, New Orleans, La. Method and apparatus for distilling crude resins. No. 1,317,781; Oct. 7; v. 267; p. 23.
- Dunwoody, Robson, New Orleans, La. Automatic turpentine-separator. No. 1,326,039; Dec. 23; v. 269; p. 652.
- Dunwoody, John E., Belfast, Ireland. Loading magazine-drum of Lewis and like guns. No. 1,306,416; June 10; v. 263; p. 255.
- Dupier, Raymond R., Monroe, Mich. Pulverizing-plow. No. 1,297,117; Mar. 11; v. 260; p. 329.
- Duplex Coupler Company. (See Jones, John F., assignor.)
- Duplex Machine Co. (See Vogetzer, Otto, assignor.)
- Duplex Printing Press Company. (See Lechman, Henry F., assignor.)
- Duplex Snap Fastener Co. (See Boyler, Emanuel J., assignor.)
- Duplex Snap Fastener Co. (See Puter and Boyler, assignors.)
- Duplex Truck Company. (See Thomas, George J., assignor.)
- Duplicator Manufacturing Company. (See Flanigan, John J., assignor.)
- Dupont, Justin, assignor to Societe Anonyme Des Etablissements Justin Dupont, Argenteuil, France. Flexible product having an acetate of cellulose base. No. 1,317,276; Sept. 30; v. 266; p. 626.
- Dupuis, Claude. (See Binche, Dupuis, and Prignol.)
- Dupuy, Arthur O., assignor of one-half to E. W. Farr, Cleveland, Ohio. Blade for pugging-mills. No. 1,293,381; Feb. 4; v. 259; p. 94.
- Dupuy, Arthur O., assignor to The C. O. Bartlett and Snow Company, Cleveland, Ohio. Mold-lifting mechanism. No. 1,323,356; Dec. 2; v. 269; p. 25.
- Duquesne Burner Service Company. (See Nordensson, Carl O., assignor.)
- Duquette, Maxim A. (See Hapgood, Clarence H., assignor.)
- Durable Box Co. (See Kenniker, Nicholas O., assignor.)
- Durand, Leon, Paris, and G. Bottin, Romans, France. Apparatus for the production of germicide, insecticide, and like gases. No. 1,299,309; Apr. 1; v. 261; p. 158.
- Durand Steel Locker Co. (See Vance, Walter N., assignor.)
- Durant, George A., Saskatoon, Saskatchewan, Canada. Grain-shocker. No. 1,307,191; June 17; v. 263; p. 429.
- Durant, Herbert U., assignor of two-thirds to M. A. Baker and F. L. Baker, Los Angeles, Calif. Variable-speed transmission. No. 1,307,488; June 24; v. 263; p. 517.
- Duratex Company, The. (See Ford, Stuart M., assignor.)
- Durbin, Votaw S., St. Louis, Mo. Periscope-mounting. No. 1,319,464; Oct. 21; v. 267; p. 431.
- Durden, Washington L., Franklin, Ala. Extensible sectional bedstead. No. 1,319,576; Oct. 21; v. 267; p. 452.
- Durdle, Oswald, assignor to Osram-Robertson Lamp Works Limited, London, England. Means for supporting electrodes in ionic tubes. No. 1,304,282; May 20; v. 262; p. 401.
- Durgarian, Leo, Fresno, Calif. Broller. No. 1,324,544; Dec. 9; v. 269; p. 295.
- Durgin, Edgar R., assignor to New Jersey Optical Co., Newark, N. J. Temple for spectacles. No. 1,304,168; May 20; v. 262; p. 379.
- Durgin, Edgar R., assignor to New Jersey Optical Co., Newark, N. J. Combination metal and non-metal rim for eyeglass-lenses. No. 1,325,511; Dec. 23; v. 269; p. 554.
- Durgin, Warren R., Brownville, Me. Coffee-strainer. No. 1,306,050; June 10; v. 263; p. 184.
- Durham, Almond D., Denver, Colo. Internal-combustion engine. No. 1,297,118; Mar. 11; v. 260; p. 329.
- Durham, John C., Reno, Nev. Attachment for applying and removing caps from jars. No. 1,309,399; July 8; v. 264; p. 285.
- Durham, Robert P. (See Macdonald and Durham.)
- Durham, Robert P., Chicago, Ill. Vessel construction. No. 1,313,529; Aug. 19; v. 265; p. 367.
- Durham, William T., Ridge Spring, S. C. Snap-book. No. 1,308,055; July 1; v. 264; p. 9.
- Durland, Albert E., Seattle, Wash. Box-assembling apparatus. No. 1,315,915; Sept. 9; v. 266; p. 273.
- Durland, Ralph A., Washingtonville, assignor to J. A. Abeles, New York, N. Y. Valve-spring compressor. (Reissue). No. 14,640; Apr. 29; v. 261; p. 938.
- Durning, Robert E., Avalon, Pa. Boiler-compound holder. No. 1,300,829; Apr. 15; v. 261; p. 545.
- Durphy, Bradley F. (See Irving and Durphy.)
- Durrans, Thomas H., Oxford, assignor to A. Boake, Roberts & Co., Limited, Stratford, London, England. Production of dimethyl sulfate. No. 1,317,648; Sept. 30; v. 266; p. 698.
- Durrans, Thomas H., Oxford, assignor to A. Boake Roberts & Co., London, England. Manufacture of organic-acid anhydrides and chlorids. No. 1,326,040; Dec. 23; v. 269; p. 652.
- Durst, John A., Portland, Oreg. Emergency safety-brake for elevators. No. 1,303,271; May 13; v. 262; p. 179.
- Duryea, Charles E., Philadelphia, Pa. Internal-combustion engine. No. 1,313,276; Aug. 19; v. 265; p. 320.
- Duryea, Leroy A., East Hampton, Conn. Automobile-tire-chain-repair device. No. 1,326,395; Dec. 30; v. 269; p. 755.
- Duryea, William C., Princeton, N. J., assignor of one-third to R. E. Hopkins, Tarrytown, and one-fourth to J. C. Hobbs, Elmhurst, N. Y. Photographic recorder. No. 1,323,175; Nov. 25; v. 268; p. 697.
- Duschnitz, Bertalan, Berlin, Germany. Arrangement for forming electrical arcs. No. 1,304,169; May 20; v. 262; p. 380.
- Dusenbery, Dayton A., Ionia, Kans. Cart. No. 1,293,058; Feb. 4; v. 259; p. 21.
- Dusenbery, Dayton A., Ionia, Kans. Constructing carts. No. 1,301,410; Apr. 22; v. 261; p. 701.
- Dusenbery, Goven, et al. (See Gardner, Lee, assignor.)
- Dussart, Louis, and E. Colin, Kincaid, Ill. Slide-rail brace. No. 1,318,058; Oct. 7; v. 267; p. 76.
- Dusseau, Francis X., Detroit, Mich. Door-holder. No. 1,290,133; Jan. 7; v. 258; p. 29.
- Dutcher, Charles, Seattle, Wash. Milk-bottle handle. No. 1,315,481; Sept. 9; v. 266; p. 194.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,296,489; Mar. 4; v. 260; p. 150.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,296,490; Mar. 4; v. 260; p. 150.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,296,491; Mar. 4; v. 260; p. 150.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo and making the same. No. 1,296,492; Mar. 4; v. 260; p. 151.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,296,493; Mar. 4; v. 260; p. 151.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,296,494; Mar. 4; v. 260; p. 151.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Spring holding-clip for railway signal-torpedoes. No. 1,303,640; May 13; v. 262; p. 245.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,311,762; July 29; v. 264; p. 822.
- Dutches Tool Company. (See Van Houten, Frank H., assignor.)
- Dutes, Albert R., assignor of one-half to R. W. Gibbes, Columbia, S. C. Fish baiting and catching device. No. 1,324,109; Dec. 9; v. 269; p. 211.
- Dutka, Adam, Sifton, Manitoba, Canada. Marine signal. No. 1,318,650; Oct. 14; v. 267; p. 250.
- Dutmer, Albert, Grand Rapids, Mich. Invalid's chair. No. 1,317,360; Sept. 30; v. 266; p. 642.
- Dutro, Orville V., and A. S. Burroughs, Spokane, Wash. Web-feeding mechanism for printing-presses. No. 1,312,963; Aug. 12; v. 265; p. 242.
- Dutt, Eric E., assignor of one-half to P. C. Dutt, Jabalpur, British India. Manufacture of magnesite. No. 1,325,932; Dec. 23; v. 269; p. 632.
- Dutt, Peary C. (See Dutt, Eric E., assignor.)
- Dutton, Byron K. (See McCaskie, Walter W., assignor.)
- Dutton, Frank H., Johannesburg, Transvaal, South Africa. Light railway system and locomotive therefor. No. 1,306,051; June 10; v. 263; p. 185.
- Dutton, Howard B., Denver, Colo. Cooker. No. 1,323,525; Dec. 2; v. 269; p. 57.
- Dutton, Lawrence J., Pueblo, Colo. Ventilator. No. 1,310,327; July 15; v. 264; p. 492.
- Duval, Louis W. (See Turner, Frank B., assignor.)
- Duval, Helen, administratrix. (See Duval, Marius.)
- Duvall, James, Camas, Wash. Paper-bag-making machine. No. 1,325,466; Dec. 16; v. 269; p. 527.
- Duval, Marius, deceased, Goldfield, Nev.; H. Duval, administratrix. Combustion-engine. No. 1,295,013; Feb. 18; v. 259; p. 540.
- Duval, Stanley A., Chicago, Ill. Battery-terminal. No. 1,299,149; Apr. 1; v. 261; p. 121.
- Duval, William S., assignor to F. B. Williams Co., Chicago, Ill. Box-fastener. No. 1,319,517; Oct. 21; v. 267; p. 441.



*Alphabetical list of patentees—Continued.*

- Duysens, Tossanus, assignor of one-half to R. Hustinx, Maastricht, Netherlands. Outer cover for pneumatic tires for bicycles, motor-vehicles, and the like. No. 1,295,014; Feb. 18; v. 259; p. 540.
- Dwelle, Harold C., Lexington, N. C. Book. No. 1,312,022; Aug. 5; v. 265; p. 32.
- Dwight's Wire Fence Company. (See Swank, Lafa, assignor.)
- Dwight, Arthur S., and R. L. Lloyd, assignors to Dwight & Lloyd Metallurgical Company, New York, N. Y. Producing lime. No. 1,315,952; Sept. 16; v. 266; p. 294.
- Dwight & Lloyd Metallurgical Company. (See Dwight and Lloyd, assignors.)
- Dwight & Lloyd Metallurgical Company. (See Lloyd, Richard L., assignor.)
- Dwy, Charles W. (See Richardson, Charles M., assignor.)
- Dwyer, Francis J., Rochester, N. Y. Rotary valve. No. 1,320,347; Nov. 4; v. 268; p. 92.
- Dwyer, Leo E., Columbus, Ohio. Chair-cover. No. 1,304,753; May 27; v. 262; p. 530.
- Dwyer, William M., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Blue-print washing machine. No. 1,290,134; Jan. 7; v. 258; p. 29.
- Dwyer, William M., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,309,021; July 8; v. 264; p. 216.
- Dyerman, George W., New York, N. Y., assignor to H. Seller, Jersey City, N. J. Hat-lining. No. 1,290,527; Jan. 7; v. 258; p. 124.
- Dyck, Abraham J., Dunelm, Saskatchewan, Canada. Rail-joint. No. 1,291,803; Jan. 21; v. 258; p. 480.
- Dyer, Cecil M., Kennington, London, England. Fuel-vaporizer. No. 1,307,393; June 24; v. 263; p. 500.
- Dyer, Charles F., Brooklyn, N. Y. Non-slip pneumatic tread. No. 1,315,482; Sept. 9; v. 266; p. 194.
- Dyer, Charles W., assignor to W. M. Shultz, St. Louis, Mo. Printing-press. No. 1,290,727; Jan. 7; v. 258; p. 173.
- Dyer, Frank L., Montclair, N. J. Electric welding. No. 1,296,780; Mar. 11; v. 260; p. 253.
- Dyer, Frank L., Montclair, N. J. Manufacturing spark-plugs. No. 1,299,150; Apr. 1; v. 261; p. 121.
- Dyer, Frank L., Montclair, N. J. Spark-plug. No. 1,304,462; May 20; v. 262; p. 437.
- Dyer, Frank L., Montclair, N. J. Electric riveting. No. 1,305,078; May 27; v. 262; p. 591.
- Dyer, Frank L., Montclair, N. J. Assembly voting-machine. No. 1,308,279; July 1; v. 264; p. 50.
- Dyer, Frank L., Montclair, N. J. Spark-plug. No. 1,324,885; Dec. 16; v. 269; p. 420.
- Dyer, John B., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, Regulator for variable-speed generators. No. 1,326,328; Dec. 30; v. 269; p. 742.
- Dyer, Newell V., Holbrook, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,308,776; July 8; v. 264; p. 169.
- Dyer, Richard F., Providence, R. I., assignor to G. H. Gabb, Bloomfield, Conn. Artificial leather and producing it. No. 1,308,231; July 1; v. 264; p. 41.
- Dyer, Thomas C., Blanchard, Okla. Steering-gear for automobiles. No. 1,317,912; Oct. 7; v. 267; p. 48.
- Dyess, Joshua W. (See Sullivan, Patrick G., assignor.)
- Dyke, Darrell F. (See Seng and Dyke.)
- Dyke, Francis R., Dartmouth, Nova Scotia, Canada. Buoy-lamp. No. 1,313,172; Aug. 12; v. 265; p. 283.
- Dyke, Herbert H., Montclair, N. J. Automobile chassis frame. No. 1,290,939; Jan. 14; v. 258; p. 248.
- Dyke, Herbert H., Montclair, N. J. Wardrobe-trunk. No. 1,303,641; May 13; v. 262; p. 245.
- Dykes, G. P., et al. (See Sertain, Louis M., assignor.)
- Dymalkon Metals Corporation. (See Bart, Blasius, assignor.)
- Dymalkon Metals Corporation. (See Fodor, Antal, assignor.)
- Dynamic Balancing Machine Company. (See Akimoff, Nicholas W., assignor.)
- Dysart, Arthur S., Portsmouth, N. H., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Viscosimeter. No. 1,292,276; Jan. 21; v. 258; p. 598.
- Dysart, Birney, Cincinnati, Ohio. Dental appliance. No. 1,306,689; June 17; v. 263; p. 338.
- Dysinger, George J., and M. M. Harris, Mount Vernon, Oreg. Brush attachment for clothes-washing machines. No. 1,318,984; Oct. 14; v. 267; p. 314.
- Dyson, Alfred H., Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone-exchange system. No. 1,307,489; June 24; v. 263; p. 517.
- Dyson, Charles W., Washington, D. C. Liquid heater and vaporizer. No. 1,318,059; Oct. 7; v. 267; p. 76.
- Dyson & Company, (Enfield) Limited. (See Richards, Daniel, assignor.)
- Dyson, Harry. (See Gaunt and Dyson.)
- Dzindaszek, James. (See Larsen, Jacob F., assignor.)
- Dziga, Peter. (See Plucinsky, Novobilsk, and Dziga.)
- Dzingel, Joseph. (See Krupa, Michal, assignor.)
- E. Barbet Et Fils Et Compagnie. (See Barbet, Emile A., assignor.)
- E. Clemens Horst Co. (See Miller, George E., assignor.)
- E. Frederics, Inc. (See Speckerman, Ernest O., assignor.)
- E. Kopriva Company. (See Salstrom, David B., assignor.)
- E. Leitz, Inc. (See Spindler, Ferdinand G., assignor.)
- E. Sabina Company. (See Sabina, Emerich, assignor.)
- E. B. Estes & Sons. (See Estes, Webster C., assignor.)
- E. & B. Holmes Machinery Company. (See Beugler, Edwin F., assignor.)
- E. B. Meyrowitz, Inc. (See Meyrowitz, Emil B., assignor.)
- E. C. Atkins & Company. (See Berry, Robert C., assignor.)
- E. D. Anderson, Inc. (See Anderson, Ernest D., assignor.)
- E. & E. Carburetor Company. (See Ciglia and Pelletier, assignors.) (Reissue.)
- E. F. Houghton & Co. (See Pressell, George W., assignor.)
- E. F. Houghton & Company. (See Franklin, Milton W., assignor.)
- E. G. Staude Manufacturing Company. (See Staude, Edwin G., assignor.)
- E. H. Mumford Company. (See Allen, Abbott, assignor.)
- E. H. Stafford Manufacturing Co. (See Stafford, Ezra H., assignor.)
- E. I. du Pont de Nemours and Company. (See Ahlum, Charles C., assignor.)
- E. I. du Pont de Nemours and Company. (See Andreau, Roland L., assignor.)
- E. I. du Pont de Nemours and Company. (See Bolton, Elmer K., assignor.)
- E. I. du Pont de Nemours and Company. (See Broadbent and Woodbridge, assignors.)
- E. I. du Pont de Nemours & Company. (See Brooks, Benjamin T., assignor.)
- E. I. du Pont de Nemours and Company. (See Buell, William H., assignor.)
- E. I. du Pont de Nemours and Company. (See Calvert and Thomas, assignors.)
- E. I. du Pont de Nemours and Company. (See Comey, Arthur M., assignor.)
- E. I. du Pont de Nemours & Company. (See Davidson, Thomas M., assignor.)
- E. I. du Pont de Nemours & Company. (See Emhardt, John C., assignor.)
- E. I. du Pont de Nemours and Company. (See Feenie and Rhodes, assignors.)
- E. I. du Pont de Nemours and Company. (See Flaherty, Edmund M., assignor.)
- E. I. du Pont de Nemours and Company. (See Hitt, Maurice V., assignor.)
- E. I. du Pont de Nemours and Company. (See Holmes, Fletcher B., assignor.)
- E. I. du Pont de Nemours and Company. (See Houlehan, Arthur W., assignor.)
- E. I. du Pont de Nemours & Company. (See Howlett, Clarence W., assignor.)
- E. I. du Pont de Nemours and Company. (See Janes, Harry C., assignor.)
- E. I. du Pont de Nemours & Company. (See Kessler, Johannes M., assignor.)
- E. I. du Pont de Nemours & Company. (See Marshall, John, assignor.)
- E. I. du Pont de Nemours and Company. (See Matheson, Howard W., assignor.)
- E. I. du Pont de Nemours and Company. (See O'Neil, Arthur S., assignor.)
- E. I. du Pont de Nemours and Company. (See Reese, Charles L., assignor.)
- E. I. du Pont de Nemours & Company. (See Robinson, Clarence P., assignor.)
- E. I. du Pont de Nemours and Company. (See Robinson, Edmund G., assignor.)
- E. I. du Pont de Nemours and Company. (See Rogers, Homer, assignor.)
- E. I. du Pont de Nemours & Company. (See Snyder, Charles I., assignor.)
- E. I. du Pont de Nemours and Company. (See Sparre, Fin, assignor.)
- E. I. du Pont de Nemours and Company. (See Stine, Charles M., assignor.)
- E. I. du Pont de Nemours and Company. (See Stowe, Floyd D., assignor.)
- E. I. du Pont de Nemours and Company. (See Swint, Wendell R., assignor.)
- E. I. du Pont de Nemours and Company. (See Teeple, Oliver J., Jr., assignor.)
- E. I. du Pont de Nemours & Company. (See Welch, Frank P., assignor.)
- E. I. du Pont de Nemours & Company. (See Winkel, Herbert, assignor.)
- E. I. du Pont de Nemours & Company. (See Woodbridge, Richard G., Jr., assignor.)
- E. I. du Pont de Nemours and Company. (See Woodbury, Clifford A., assignor.)
- E. I. du Pont de Nemours and Company. (See Zeisberg, Fred C., assignor.)
- E. J. Manville Machine Company, The. (See Brennan, Charles T., assignor.)
- E. L. Watrous Galvanizing Co. (See Watrous, Edward L., assignor.)
- E. N. Moyer Company, Limited. (See Moyer, Eli N., assignor.)
- E. R. Calthrop's Aerial Patents Limited. (See Calthrop, Everard R., assignor.)



## Alphabetical list of patentees—Continued.

- E. S. Cowie Electric Co. (See Haskins, Butler J., assignor.)  
 E. T. Burrowes Company, The. (See Coffin, Charles W., assignor.)  
 E. and T. Fairbanks and Company. (See Bousfield, John H. A., assignor.)  
 E. W. Bliss Company. (See Dieter, William, assignor.)  
 E. W. Bliss Company. (See Ellsworth, Charles J., assignor.)  
 E. W. Bliss Company. (See Kruse, Peter, assignor.)  
 E. W. Bliss Company. (See Leavitt, Frank M., assignor.)  
 E. W. Bliss Company. (See Lokan, August, assignor.)  
 E. W. Bliss Company. (See Page, Frank C. B., assignor.)  
 E. W. Carpenter Manufacturing Company. (See Carpenter, Edward W., assignor.)  
 E. W. Carpenter Manufacturing Company. (See Lund, Charles W., assignor.)  
 E. W. Sproul Company. (See Hunter, Thomas F., assignor.)  
 Eads, Harry B., Vicksburg, Miss. Automatic valve and rim. No. 1,300,935; Apr. 15; v. 261; p. 568.  
 Eagan, John J., San Francisco, Calif. Concrete vessel. No. 1,316,088; Sept. 16; v. 266; p. 319.  
 Eager, Albert E., Philadelphia, Pa. Burner. No. 1,316,777; Sept. 23; v. 266; p. 497.  
 Eager, Honor L., Brooklyn, N. Y. Device for removing facial wrinkles. No. 1,319,054; Oct. 21; v. 267; p. 353.  
 Eagle, Harry J., Terre Haute, Ind. Signal. No. 1,313,678; Aug. 19; v. 265; p. 394.  
 Eagles, James, Doncaster, England. Filing appliance. No. 1,290,135; Jan. 7; v. 258; p. 30.  
 Eaglesfield, Robert D., Indianapolis, Ind. Feeding mechanism for molding-machines. No. 1,295,875; Mar. 4; v. 260; p. 13.  
 Eames, George M., Bridgeport, Conn. Edge-finishing and uniting woven fabrics. No. 1,305,528; June 3; v. 263; p. 56.  
 Earl, Charles A., et al. (See Spencer, Lewis L., assignor.)  
 Earl, Charles M., Detroit, Mich. Dispensing device for carbonated beverages. No. 1,297,333; Mar. 18; v. 260; p. 405.  
 Earl, George G., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to A. B. Wood, New Orleans, La. Hydraulic system and method. No. 1,311,861; July 29; v. 264; p. 840.  
 Earle, Elias P., Townville, S. C. Camera. No. 1,298,312; Mar. 25; v. 260; p. 639.  
 Earle, George H., Valparaiso, Ind. Automobile-heater. No. 1,308,486; July 1; v. 264; p. 87.  
 Earle, Horatio S., assignor to H. S. Earle Mfg. Co., Detroit, Mich. Grass-hook. No. 1,309,278; July 8; v. 264; p. 263.  
 Earlenbaugh, Cloyd G. (See Paddison and Earlenbaugh.)  
 Earnest, George W., Bedford, Pa. Cap for muscilage-bottles. No. 1,303,179; May 6; v. 262; p. 133.  
 Earnheart, Chauncey B., assignor to Safety First Devices Company, Indianapolis, Ind. Compressed-air valve and gage. No. 1,305,261; June 3; v. 263; p. 6.  
 Earnheart, Chauncey B., assignor to Safety First Devices Company, Indianapolis, Ind. Compressed-air valve and gage. No. 1,305,262; June 3; v. 263; p. 6.  
 Earnheart, Chauncey B., assignor to Safety First Devices Company, Indianapolis, Ind. Pressure-indicating air-valve. No. 1,305,263; June 3; v. 263; p. 6.  
 Earnheart, Chauncey B., assignor to Safety-First Devices Company, Indianapolis, Ind. Valve for pneumatic tires. No. 1,305,264; June 3; v. 263; p. 7.  
 Earnheart, Chauncey B., assignor to Safety First Devices Company, Indianapolis, Ind. Pressure-indicating valve. No. 1,305,265; June 3; v. 263; p. 7.  
 Earnheart, Chauncey B., assignor to Safety First Devices Company, Indianapolis, Ind. Air-valve structure. No. 1,305,266; June 3; v. 263; p. 7.  
 Earnheart, Lucien T., assignor to Safety First Devices Company, Indianapolis, Ind. Compressed-air valve and gage. No. 1,305,260; June 3; v. 263; p. 6.  
 Earnshaw, Arthur R., Riverton, N. J. Casting molten metal. No. 1,323,583; Dec. 2; v. 269; p. 68.  
 Earnshaw, Frank R., Lake Beulah, Wis. Shock-absorber. No. 1,298,375; Mar. 4; v. 260; p. 126.  
 Earnshaw, Henry P. J., Boston, Mass., assignor to Earnshaw Manufacturing Company, Incorporated, Hartford, Conn. Compressed-air power plant. No. 1,292,731; Jan. 28; v. 258; p. 728.  
 Earnshaw Manufacturing Company. (See Earnshaw, Henry P. J., assignor.)  
 Earp-Thomas, George H., Glen Ridge, N. J. Fertilizer and making same. No. 1,309,723; July 15; v. 264; p. 382.  
 Earp-Thomas, George H., Richmond, Va. Fertilizer composition and making same. (Reissue.) No. 14,686; July 15; v. 264; p. 507.  
 Easley, Raleigh T., Tiplersville, Miss. Wagon-brake. No. 1,314,469; Aug. 26; v. 265; p. 579.  
 Eason, Clarence M., Chicago, Ill., and R. O. Hendrickson, Racine, assignors to Wallis Tractor Company, Racine, Wis. Differential gearing. No. 1,315,217; Sept. 9; v. 266; p. 146.  
 Eason, George F., Manning, Ark. Measuring device. No. 1,295,015; Feb. 18; v. 259; p. 541.  
 East, John F., Norfolk, Va. Basket. No. 1,310,328; July 15; v. 264; p. 492.  
 East, Samuel T., Norwood, La. Auxiliary hood for automobile-engines. No. 1,300,936; Apr. 15; v. 261; p. 568.  
 East St. Louis Cotton Oil Company. (See Stockton, Frank W., assignor.)  
 Eastern Tool & Mfg Company. (See Montan, Adolf, assignor.)  
 Eastman, Adelbert, New York, N. Y. Advertising device. No. 1,313,173; Aug. 12; v. 265; p. 284.  
 Eastman, Alfred C., Augusta, Me. Lap-seam gage. No. 1,325,629; Dec. 23; v. 269; p. 575.  
 Eastman, Charles H., assignor to F. Eastman, Union City, Pa. Pony-car. No. 1,302,779; May 6; v. 262; p. 56.  
 Eastman, Floyd K., Indianapolis, Ind. Radiator-cover. No. 1,308,056; July 1; v. 264; p. 9.  
 Eastman, Frank. (See Eastman, Charles H., assignor.)  
 Eastman, Henry K., and C. Gentel, Brooklyn, assignors to The Hills Brothers Company, New York, N. Y. Label-affixing machine. No. 1,295,016; Feb. 18; v. 259; p. 541.  
 Eastman, James H., Detroit, Mich. Electrotherapeutic apparatus. No. 1,317,277; Sept. 30; v. 266; p. 626.  
 Eastman, James H., Detroit, Mich. Electrotherapeutic apparatus. No. 1,317,278; Sept. 30; v. 266; p. 626.  
 Eastman Kodak Company. (See Barnes and Allen, assignors.)  
 Eastman Kodak Company. (See Becker, Joseph, assignor.)  
 Eastman Kodak Company. (See Capstaff, John G., assignor.)  
 Eastman Kodak Company. (See Chamberlin, Benjamin D., assignor.)  
 Eastman Kodak Company. (See Clarke, Hans T., assignor.)  
 Eastman Kodak Company. (See Crabtree, John I., assignor.)  
 Eastman Kodak Company. (See Dakin and Underwood, assignors.)  
 Eastman Kodak Company. (See Davis, Hugh, assignor.)  
 Eastman Kodak Company. (See Fisher, Austin C., assignor.)  
 Eastman Kodak Company. (See Folmer, William F., assignor.)  
 Eastman Kodak Company. (See Frederick and Altman, assignors.)  
 Eastman Kodak Company. (See Frederick and Ross, assignors.)  
 Eastman Kodak Company. (See Grass, Ernest, assignor.)  
 Eastman Kodak Company. (See Groth, Otto, assignor.)  
 Eastman Kodak Company. (See Hood, George J., assignor.)  
 Eastman Kodak Company. (See Hurlburt, David M., assignor.)  
 Eastman Kodak Company. (See Hutchings, Charles E., assignor.)  
 Eastman, Kodak Company. (See Jones, John G., assignor.)  
 Eastman Kodak Company. (See Kester, George I., assignor.)  
 Eastman Kodak Company. (See Kroedel, Robert, assignor.)  
 Eastman Kodak Company. (See Meyering, Bernard H., assignor.)  
 Eastman Kodak Company. (See Parkinson, Welles, and Tierney, assignors.)  
 Eastman Kodak Company. (See Pirwitz, Friedrich A. G., assignor.)  
 Eastman Kodak Company. (See Riddell, William A., assignor.)  
 Eastman Kodak Company. (See Robertson and Tierney, assignors.)  
 Eastman Kodak Company. (See Ruttan and Kester, assignors.)  
 Eastman Kodak Company. (See Sheppard, Samuel E., assignor.)  
 Eastman Kodak Company. (See Speidel, Charles F., assignor.)  
 Eastman, Lewis A., Laconia, N. H. Oil-burner. No. 1,296,935; Mar. 11; v. 260; p. 289.  
 Eastman, Merle W., Cambridge, Mass. Motor for damper-regulators. No. 1,314,254; Aug. 26; v. 265; p. 539.  
 Eastman, Oliver D., and W. M. Gregg, Muskegon, Mich. Dirigible lighting mechanism. No. 1,324,651; Dec. 9; v. 269; p. 315.  
 Easton & Burnham Machine Co. (See Easton, Frederic W., assignor.)  
 Easton, Fred M., San Bernardino, Calif. Sawing-machine. No. 1,312,964; Aug. 12; v. 265; p. 243.  
 Easton, Frederic W., assignor to Easton & Burnham Machine Co., Pawtucket, R. I. Winding or spooling machine. No. 1,322,769; Nov. 25; v. 268; p. 620.  
 Easton, James B., Washington, D. C. Pencil-holder. No. 1,299,923; Apr. 8; v. 261; p. 325.  
 Easton, Lucian F., assignor to La Crosse Tractor Co., La Crosse, Wis. Lubricating device for engines. No. 1,293,382; Feb. 4; v. 259; p. 95.  
 Easton, William B., Chicago, Ill., and D. Cole, El Paso, Tex. Frame for jaw-crushers. No. 1,298,188; Mar. 25; v. 260; p. 613.  
 Eastwood, William, Leeds, England. Measuring instrument. No. 1,322,770; Nov. 25; v. 268; p. 620.  
 Eaton, Allen B. (See Gibson, Claude W., assignor.)



*Alphabetical list of patentees—Continued.*

- Eaton, Brown & Simpson. (See Eaton, Harold I., assignor.)
- Eaton, Bruce E., Dallas, Tex. Faucet-drain. No. 1,324,110; Dec. 9; v. 269; p. 211.
- Eaton, Charles C., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,303,867; May 20; v. 262; p. 325.
- Eaton, Charles F., Manchester, N. H., assignor to W. H. McIlwain Company, Boston, Mass. Well-machine. No. 1,314,792; Sept. 2; v. 266; p. 59.
- Eaton, Fred L., Rew, Pa. Permutation-padlock. No. 1,308,487; July 1; v. 264; p. 87.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator-cylinder for dynamo-electric machines. No. 1,292,590; Jan. 28; v. 258; p. 695.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive construction. No. 1,300,254; Apr. 15; v. 261; p. 423.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Locomotive driving mechanism. No. 1,306,531; June 10; v. 263; p. 276.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Locomotive. (Reissue.) No. 1,4,661; June 10; v. 263; p. 304.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,318,734; Oct. 14; v. 267; p. 266.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Locomotive construction. No. 1,318,735; Oct. 14; v. 267; p. 266.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Resilient driving connection. No. 1,321,511; Nov. 11; v. 268; p. 281.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resilient driving connection. No. 1,321,512; Nov. 11; v. 268; p. 281.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,321,513; Nov. 11; v. 268; p. 282.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pantograph-trolley. No. 1,323,258; Dec. 2; v. 269; p. 7.
- Eaton, George M., and G. H. F. Holy, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 1,306,530; June 10; v. 263; p. 275.
- Eaton, George M., Pittsburgh, and R. E. Hellmund, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Locomotive. No. 1,318,736; Oct. 14; v. 267; p. 266.
- Eaton, George M., Wilkinsburg, and J. L. Davis, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Locomotive gathering-reel. No. 1,326,329; Dec. 30; v. 269; p. 742.
- Eaton, Harold I., Atlantic City, assignor to Eaton, Brown & Simpson, Inc., Elizabeth, N. J. Ditching-machine. No. 1,300,142; Apr. 8; v. 261; p. 373.
- Eaton, Harold I., Atlantic City, and C. R. Simpson, Elizabeth, N. J. Ditching spade or shovel. No. 1,305,079; May 27; v. 262; p. 591.
- Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Operator's chair. No. 1,318,437; Oct. 14; v. 267; p. 209.
- Eaton, James F., Rochester, N. Y. Heel-attaching apparatus. No. 1,314,187; Aug. 26; v. 265; p. 525.
- Eaton, Jesse R. (See Carter, Lillie M., assignor.)
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,297,120; Mar. 11; v. 260; p. 330.
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,297,121; Mar. 11; v. 260; p. 330.
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,299,924; Apr. 8; v. 261; p. 325.
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,321,019; Nov. 4; v. 268; p. 125.
- Eaton, Reason B., Oswego, Kans., assignor of one-third to W. J. Carpenter, Kansas City, Mo. Nut-lock. No. 1,313,589; Aug. 19; v. 265; p. 379.
- Eaton, Warren S., Plainfield, N. J. Aeroplane. No. 1,290,136; Jan. 7; v. 258; p. 30.
- Eaton, Warren S., Plainfield, N. J. Cable-coupling. No. 1,293,383; Feb. 4; v. 259; p. 95.
- Eaton, William D., Glen Echo, Md. Circuit-closer operator. No. 1,311,763; July 29; v. 264; p. 822.
- Eaton, William S., Sag Harbor, N. Y., assignor to American Bank Note Company. Geometrical machine. No. 1,294,639; Feb. 18; v. 259; p. 454.
- Ebbels, John L., New York, N. Y. Bird-cage perch. No. 1,297,811; Mar. 18; v. 260; p. 607.
- Ebbs, Robert E., Huttig, Ark. Automobile-tire. No. 1,297,550; Mar. 18; v. 260; p. 450.
- Ebeling, Charles W., New York, N. Y. Synchronizing means for motion-picture projectors and sound-producing mechanisms. No. 1,303,047; May 6; v. 262; p. 108.
- Ebeling, Frederick W., New York, N. Y. Submarine dredging apparatus. No. 1,314,793; Sept. 2; v. 266; p. 60.
- Ebeling, Lena E. (See Ebeling, Phillip, assignor.)
- Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Apparatus for the manufacture of prism-pendants. No. 1,297,122; Mar. 11; v. 260; p. 330.
- Ebeling, Phillip, assignor, by mesne assignments, to L. E. Ebeling, Moundsville, W. Va. Cap for threaded glass receptacles. No. 1,298,313; Mar. 25; v. 260; p. 639.
- Ebeling, Robert W., Oakland, Calif., assignor to R. W. Ebeling Company, Incorporated. Rotary rheostat. No. 1,323,176; Nov. 25; v. 268; p. 697.
- Eberhard, George F., Trenton, N. J., assignor to Robt. H. Ingersoll & Bro. Dial and dial-holder for watches and the like. No. 1,310,523; July 22; v. 264; p. 559.
- Eberhard, George F., W. T. Maloney, Trenton, N. J., and F. W. Bold, Thomaston, Conn., assignors to Robt. H. Ingersoll & Bro. Stem-winding and stem-setting mechanism for watches. No. 1,310,524; July 22; v. 264; p. 559.
- Eberhardt, George O. (See Jerome and Eberhardt.)
- Eberhardt, George O., assignor of one-half to J. Jerome, Battleriver, Minn. Potato-harvester. No. 1,303,180; May 6; v. 262; p. 134.
- Eberhardt, Louis A., New York, N. Y. Treating silicates containing potassium and aluminium. No. 1,310,413; July 22; v. 264; p. 540.
- Eberle, John A., St. Louis, Mo. Swing. No. 1,304,951; May 27; v. 262; p. 567.
- Eberly, Arthur J., Independence, Ind. Knife attachment for kicker-arms of binders. No. 1,302,644; May 6; v. 262; p. 31.
- Eberly, Theodore L., Springmont, assignor to Textile Machine Works, Wyomissing, Pa. Spool-carrier for braiding-machines. No. 1,325,933; Dec. 23; v. 269; p. 632.
- Ebersole, Andrew, Dodge City, Kans. Portable transferring-derrick. No. 1,311,331; July 29; v. 264; p. 742.
- Ebert, Alfred O. H., assignor to Woodstock Typewriter Company, Woodstock, Ill. Margin-release. No. 1,303,783; May 13; v. 262; p. 271.
- Ebert, John D., Kinsley, Kans. Combined windmill and air-compressing mechanism. No. 1,299,151; Apr. 1; v. 261; p. 121.
- Ebert, Joseph F., New York, N. Y. Protector. No. 1,295,714; Feb. 25; v. 259; p. 726.
- Ebinger, Michael, Oakland, Calif. Artificial stone. No. 1,300,591; Apr. 15; v. 261; p. 495.
- Ebner, George, and E. Jeschke, Bellevue, Ohio; said Ebner assignor to said Jeschke. Hand-truck. No. 1,313,883; Aug. 26; v. 265; p. 467.
- Eby, Eugene D., Pittsfield, Mass., assignor to General Electric Company. Insulating-bushing. No. 1,304,283; May 20; v. 262; p. 402.
- Eby, Frank B., Bristol, Ind. Corn-planter. No. 1,316,288; Sept. 16; v. 266; p. 356.
- Eby, Harry J., Elele, Hawaii. Engine-starter. No. 1,290,940; Jan. 14; v. 258; p. 248.
- Eby, Lucian L., North Fork, Idaho. Crate. No. 1,317,438; Sept. 30; v. 266; p. 657.
- Ecaubert, Frederic, Brooklyn, N. Y. Hair-spring and balance mounting. No. 1,311,501; July 29; v. 264; p. 774.
- Ecaubert, Frederic, New York, N. Y. Hair-spring adjustment. No. 1,311,502; July 29; v. 264; p. 774.
- Eccles, John A., and B. F. Tozier, Venice, Calif. Gear-shift for automobiles. No. 1,321,423; Nov. 11; v. 268; p. 265.
- Eccleston, Charles W., Los Angeles, Calif. Mineral-separator. No. 1,319,646; Oct. 21; v. 267; p. 466.
- Eck, Max, Philadelphia, Pa. Operating mechanism for salad-dressing mixing and serving receptacles. No. 1,321,609; Nov. 11; v. 268; p. 300.
- Eckart, Charles F., Olaa, Hawaii. Enhancing the growth of sugar-cane. No. 1,296,173; Mar. 4; v. 260; p. 83.
- Eckart, Edmund, New Rochelle, N. Y. Spraying device. No. 1,315,765; Sept. 9; v. 266; p. 244.
- Eckart, George F., assignor to Automatic Stemmer Company, Chicago, Ill. Attachment for tobacco-stemmers. No. 1,295,452; Feb. 25; v. 259; p. 664.
- Eckelbarger, Zena, Goshen, Ind. Reproducer. No. 1,311,057; July 22; v. 264; p. 658.
- Eckelbarger, Zena, Goshen, Ind. Piston and packing-ring. No. 1,320,210; Oct. 28; v. 267; p. 593.
- Eckelmann, Louis E., New York, N. Y., assignor to Pyrene Manufacturing Company. Vaporizer. No. 1,325,559; Dec. 23; v. 269; p. 563.
- Eckelmann, Luis E., and H. Hertzberg, New York, N. Y., assignors to Pyrene Manufacturing Company. Fire-extinguishing system. No. 1,292,732; Jan. 28; v. 258; p. 728.
- Eckels, Clarence E., Chicago, Ill. Method of and apparatus for producing motion-picture titles. No. 1,294,249; Feb. 11; v. 259; p. 329.
- Eckenroth, Philip, Philadelphia, assignor of six twenty-fifths to W. F. Hamilton, Cynwyd, and six twenty-fifths to F. J. Milton, William Penn. Pa. Valve. No. 1,317,563; Sept. 30; v. 266; p. 681.



## Alphabetical list of patentees—Continued.

- Ecker, Walter A., Denver, Colo. Dust-catching radiator-cap. No. 1,303,181; May 6; v. 262; p. 134.
- Eckert, Adolph, assignor to Liquid Carbonic Company, Chicago, Ill. Syrup-pump. No. 1,290,941; Jan. 14; v. 258; p. 249.
- Eckert, Lewis V., assignor of one-third to G. H. Field and one-third to W. C. Abshire, Chillicothe, Mo. Plaster composition. No. 1,315,597; Sept. 9; v. 266; p. 215.
- Eckhardt, Walter L., Philadelphia, Pa. Needle-arm for talking-machines. No. 1,296,638; Mar. 11; v. 260; p. 220.
- Eckhart, Frank E., *et al.* (See Moore, Henry N., assignor.)
- Eckleberry, Dorsey M., Lockwood, Saskatchewan, Canada. Disk harrow. No. 1,297,123; Mar. 11; v. 260; p. 331.
- Eekre, Olof A., Kindred, N. D. Spring-wheel. No. 1,317,913; Oct. 7; v. 267; p. 48.
- Eckstein, Morris, assignor to H. Kaufman and F. Kessler, Chicago, Ill. Dispensing device. No. 1,291,804; Jan. 21; v. 258; p. 481.
- Eclipse Valve Grinder Company. (See Leggett, Herbert, assignor.)
- Economic Machinery Company. (See Stake and Ekvall, assignors.)
- Economic Propeller Company. (See Gracey, James G., assignor.)
- Economic Steel Rack Company. (See Baxter, William L., assignor.)
- Economy Engineering Co., The. (See Tripp and Ramsay, assignors.)
- Economy Fuse & Manufacturing Company. (See Eustice, Alfred L., assignor.)
- Economy, John D., Philadelphia, Pa. Serving-bar. No. 1,290,137; Jan. 7; v. 258; p. 30.
- Economy Rail Company. (See Speyer, Herbert E., assignor.)
- Economy Sales Company. (See Simpson, John T., assignor.)
- Eddison, William B., *et al.* (See Richardson, Edisson, and Read.)
- Eddison, William B., Irvington, assignor to The Surface Combustion Co., Incorporated, New York, N. Y. Method and apparatus for mixing and proportioning gases. No. 1,294,781; Feb. 18; v. 259; p. 488.
- Eddison, William B., Irvington, assignor to The Surface Combustion Co., Incorporated, New York, N. Y. Method and apparatus for mixing and proportioning gases. No. 1,295,085; Feb. 18; v. 259; p. 557.
- Eddison, William B., Irvington, assignor to The Surface Combustion Co., Incorporated, New York, N. Y. Jet apparatus. No. 1,295,086; Feb. 18; v. 259; p. 557.
- Eddy, Henry W. (See Ricker, James H., assignor.)
- Eddy, John S., Los Angeles, Calif. Means for holding covers on beds and the like. No. 1,297,551; Mar. 18; v. 260; p. 450.
- Edelman, Philip E., St. Paul, Minn. Apparatus for developing photographic films. No. 1,294,429; Feb. 18; v. 259; p. 406.
- Edelman, Philip E., St. Paul, Minn. Electrical toy and device. No. 1,300,361; Apr. 15; v. 261; p. 446.
- Edelman, Philip E., St. Paul, Minn. Means and method of developing photographic films. No. 1,304,032; May 20; v. 262; p. 355.
- Edelmann, Erich, Chicago, Ill., assignor to A. Schrader's Son, Inc., New York, N. Y. Pressure-gage. No. 1,322,884; Nov. 25; v. 268; p. 641.
- Eden, Alfred E. (See Whigam and Eden.)
- Eden, Harold W., Chicago, Ill., assignor, by mesne assignments, to Brokaio-Eden Manufacturing Co. Clutch-shifting mechanism. No. 1,299,925; Apr. 8; v. 261; p. 325.
- Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Machine for threading button-head staybolts. No. 1,322,885; Nov. 25; v. 268; p. 641.
- Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Fastening device for chasers for die-heads. No. 1,323,584; Dec. 2; v. 269; p. 68.
- Edens, Henry N., assignor to John Lauson Manufacturing Company, New Holstein, Wis. Tread attachment for wheel-rims. No. 1,311,683; July 29; v. 264; p. 808.
- Edens, Henry N., assignor to John Lauson Manufacturing Company, New Holstein, Wis. Clutch. No. 1,316,432; Sept. 16; v. 266; p. 483.
- Edens, Henry N., assignor to The John Lauson Manufacturing Company, New Holstein, Wis. Transmission and clutch operating means. No. 1,316,433; Sept. 16; v. 266; p. 384.
- Edens, William J., West Allis, Wis. Starting mechanism for internal-combustion engines. No. 1,324,040; Dec. 9; v. 269; p. 198.
- Eder, Joseph, San Francisco, Cal. Leather-cutting machine. No. 1,293,059; Feb. 4; v. 259; p. 21.
- Edgar, Grant E. (See Bedell and Edgar.)
- Edge, Howard H., assignor to The Locomobile Company of America, Bridgeport, Conn. Valve. No. 1,313,858; Aug. 19; v. 265; p. 429.
- Edge Moor Iron Company. (See Sellers, William F., assignor.)
- Edgecomb, Henry R., St. Marys, Pa., assignor to Speer Carbon Company. Brush for dynamo-electric machines. No. 1,323,970; Dec. 2; v. 269; p. 141.
- Edgerton, Charles, Philadelphia, Pa. Apparatus for extracting grease and oils from garbage. No. 1,293,738; Feb. 11; v. 259; p. 208.
- Edholm, Frederic, Eskilstuna, Sweden. Regulating device for internal-combustion engines. No. 1,319,857; Oct. 28; v. 267; p. 529.
- Edholm, Fredric, assignor to Munktells Mekaniska Verkstads Aktiebolag, Eskilstuna, Sweden. Starting mechanism for internal-combustion engines. No. 1,291,805; Jan. 21; v. 258; p. 481.
- Edison Storage Battery Company. (See Edison, Thomas A., assignor.)
- Edison Storage Battery Company. (See Hutchison and Norton, assignors.)
- Edison Storage Battery Company. (See Monaban, James F., assignor.)
- Edison Storage Battery Company. (See Norton, Charles W., assignor.)
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Projectile. No. 1,297,294; Mar. 11; v. 260; p. 368.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Storage battery. No. 1,299,693; Apr. 8; v. 261; p. 273.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Projectile. No. 1,300,708; Apr. 15; v. 261; p. 519.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Projectile. No. 1,300,709; Apr. 15; v. 261; p. 519.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Apparatus for the production of concrete structures. No. 1,326,854; Dec. 30; v. 269; p. 842.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Friction speed-governor. No. 1,290,138; Jan. 7; v. 258; p. 30.
- Edison, Thomas A., Llewellyn Park, assignor to Edison Storage Battery Company, West Orange, N. J. Tube filling and tamping machine. No. 1,311,955; Aug. 5; v. 265; p. 19.
- Edison, Thomas A., Llewellyn Park, assignor to New Jersey Patent Company, West Orange, N. J. Method and means for improving the rendition of musical compositions. No. 1,323,218; Nov. 25; v. 268; p. 706.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J., assignor to New Jersey Patent Company, West Orange, N. J. Mold for sound-records. No. 1,326,330; Dec. 30; v. 269; p. 743.
- Edison, Thomas A., assignor to New Jersey Patent Company, West Orange, N. J. Swinging-machine. No. 1,292,277; Jan. 21; v. 258; p. 598.
- Edison, Thomas A., Jr., Burlington, N. J. Fuel-feeding device. No. 1,304,550; May 27; v. 262; p. 493.
- Edland, Walter H., Kenosha, Wis. Window-washer's platform. No. 1,295,453; Feb. 25; v. 259; p. 664.
- Edlund, Henry J., Burlington, Vt. Broom-making machine. No. 1,292,733; Jan. 28; v. 258; p. 728.
- Edlund, Mandy, assignor of one-half to O. Erickson, Nederland, Colo. Heat-conserving composition. No. 1,322,098; Nov. 18; v. 268; p. 441.
- Edman, John A., New Haven, Conn. Base for electric fans. No. 1,322,886; Nov. 25; v. 268; p. 642.
- Edmands, Artemas B., Pawtucket, R. I. Knot-tying device. (Reissue.) No. 1,469,729; July 29; v. 264; p. 841.
- Edmands, Artemas B., assignor to A. B. Edmands, Pawtucket, R. I. Knot-tying device. No. 1,291,806; Jan. 21; v. 258; p. 481.
- Edmands, Arthur B. (See Edmands, Artemas B., assignor.)
- Edmison, Albert L. and J. Rikkelman, Los Angeles, Calif. Combined motion-picture and sound-reproducing device. No. 1,301,045; Apr. 15; v. 261; p. 592.
- Edmond, John O., Cypress, Ind. Heater for automobiles. No. 1,290,139; Jan. 7; v. 258; p. 31.
- Edmonds, Alonzo N., Charleston, S. C. Radio receiving apparatus. No. 1,306,474; June 10; v. 263; p. 266.
- Edmonds, Samuel P., Brooklyn, N. Y. Coat-type life-preserver having removable buoyant members. No. 1,291,448; Jan. 14; v. 258; p. 366.
- Edmonds, Samuel P., Brooklyn, N. Y. Life-preserver. No. 1,295,715; Feb. 25; v. 259; p. 726.
- Edmonds, Samuel P., Catonsville, Md. Life-buoy. No. 1,297,665; Mar. 18; v. 260; p. 474.
- Edmonds, Sterling O., Eagleville, Tenn. System of automobile towage. No. 1,296,781; Mar. 11; v. 260; p. 253.
- Edmondson, Albert E., Ottawa, Ontario, Canada. Saw. No. 1,314,255; Aug. 26; v. 265; p. 539.
- Edmondson, Harry J., Spokane, Wash. Fishing apparatus. No. 1,307,623; June 24; v. 263; p. 541.
- Edmondson, William F., Wellington, Kans. Chain-pump driving mechanism. No. 1,304,033; May 20; v. 262; p. 355.
- Edmonson, Seth T., Coyle, Okla. Hay-press. No. 1,305,784; June 3; v. 263; p. 105.
- Edmont, William M., Duluth, Minn. Radiator-cover and temperature-regulator. No. 1,291,807; Jan. 21; v. 258; p. 481.
- Edmont, William M., Duluth, Minn. Automatic ignition control. No. 1,301,411; Apr. 22; v. 261; p. 702.
- Edmunds and Jones Corporation. (See Godley, Charles E., assignor.)
- Edmunds & Jones Corporation. (See Knauff, George C., assignor.)
- Edmunds, Thomas V., Winston-Salem, N. C., assignor of one-half to R. G. Parker. Puncture-preventing material for tires. No. 1,322,550; Nov. 25; v. 268; p. 579.
- Edmondson, Christian, Tientsin, China. Alarm-watch. No. 1,295,876; Mar. 4; v. 260; p. 13.



- Edmundson, Jerone J., Birmingham, Ala. Beverage-container. No. 1,318,547; Oct. 14; v. 267; p. 230.
- Edridge, Walter H., Woolwich, London, England, and E. E. G. Boite, Havre, France. Worm-gearing adjustment applicable to variable condensers for wireless telegraphy and telephony. No. 1,310,329; July 15; v. 264; p. 492.
- Edsall, Raymond L. (See Wilkinson and Edsall.)
- Edser, Edwin, Brockley, London, and H. L. Sulman, London, England. Concentration of ores. No. 1,326,855; Dec. 30; v. 269; p. 842.
- Edson, William, New York, N. Y. Vehicle-top. No. 1,294,640; Feb. 18; v. 259; p. 455.
- Edstrom, Otto E., San Francisco, Calif. Automatic stop for window-shade rollers. No. 1,303,182; May 6; v. 262; p. 134.
- Edtbauer, Petronella, Chicago, Ill. Weighing-machine. No. 1,306,052; June 10; v. 263; p. 185.
- Educational Motion Picture Machine and Film Company. (See O'Hara, Joseph G. R., assignor.)
- Edward A. Field, Sr. (See Field, Edward A., Jr.)
- Edward Ford Plate Glass Company, The. (See Kuhns, John H., assignor.)
- Edward G. Budd Manufacturing Company. (See Ledwinka, Joseph, assignor.)
- Edward G. Budd Manufacturing Company. (See White, Ralph, assignor.)
- Edward G. Budd Manufacturing Company. (See Weaver, Clayton B., assignor.)
- Edward P. Bates Co. (See Siver, Charles W., assignor.)
- Edward Katzinger Company. (See Jackson, Joseph G., assignor.)
- Edward V. Hartford, Inc. (See Kuhsiek, Albert J. H., assignor.)
- Edward Miller & Company. (See Taylor, Wilton A., assignor.)
- Edward Packard and Company. (See Mills and Packard, assignors.)
- Edward V. Hartford, Inc. (See Kuhsiek, Albert J. H., assignor.)
- Edward Valve and Manufacturing Company. (See Hitze, Edward C., assignor.)
- Edwardes, Vance P., Madison, Wis., assignor to the United States of America. Manufacture of cellulose. No. 1,310,694; July 22; v. 264; p. 591.
- Edwards, Albert, Brooklyn, N. Y., assignor to Solar Metal Products Co., Inc. Self-closing receptacle. No. 1,300,710; Apr. 15; v. 261; p. 520.
- Edwards, Albert J., Washington, D. C., assignor of one-half to I. W. Jennings, Crawford, Ga. Trolley-harp. No. 1,290,152; Apr. 1; v. 261; p. 122.
- Edwards, Albert J., Indianapolis, Ind. Advertising-machine. No. 1,326,396; Dec. 30; v. 269; p. 755.
- Edwards, Arah B., Covington, Ky., assignor, by mesne assignments, to Shortwriter Company, Wilmington, Del., and Chicago, Ill. Stenographic writing-machine. No. 1,293,739; Feb. 11; v. 259; p. 208.
- Edwards, Charles H., Saginaw, Mich. Toy. No. 1,299,310; Apr. 1; v. 261; p. 158.
- Edwards, Charles R., Houston, assignor of one-half to J. O. Mack, Harris county, Tex. Device for forming screens. No. 1,323,621; Dec. 2; v. 269; p. 74.
- Edwards, Curtis H. (See Dayton and Edwards.)
- Edwards, David M., London, England. Combined electric plug and switch. No. 1,299,926; Apr. 8; v. 261; p. 325.
- Edwards, Eugene P., Plainfield, N. J. Vehicle. No. 1,313,530; Aug. 19; v. 265; p. 367.
- Edwards, Evan J., East Cleveland, Ohio. Lighting-system control. No. 1,306,411; June 10; v. 263; p. 254.
- Edwards, Francis E., et al. (See Altpeter, Walter, assignor.)
- Edwards, Francis E., Crystal Lake, assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-feed system. No. 1,306,999; June 17; v. 263; p. 394.
- Edwards, Frederick E., San Francisco, Calif. Circuit-closer. No. 1,309,881; July 15; v. 264; p. 411.
- Edwards, George, Berkeley, Calif. Torsion-gear for marine propulsion. No. 1,299,564; Apr. 8; v. 261; p. 244.
- Edwards, George, Berkeley, Calif. Gear-and-pinion transmission. No. 1,320,459; Nov. 4; v. 268; p. 19.
- Edwards, George D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,293,060; Feb. 4; v. 259; p. 21.
- Edwards, George E., Waterbury, Conn. Pulley-line take-up. No. 1,293,384; Feb. 4; v. 259; p. 95.
- Edwards, George J., Vancouver, British Columbia, Canada. Folding chair. No. 1,299,827; Apr. 8; v. 261; p. 304.
- Edwards, Henry E. (See Buch, Max, assignor.)
- Edwards, Henry J., Elyria, Ohio. Universal joint. No. 1,316,563; Sept. 23; v. 266; p. 457.
- Edwards, Isaac L., Aurora, Ill. Railway-switch-operating mechanism. No. 1,299,311; Apr. 1; v. 261; p. 158.
- Edwards, Isaac L., Aurora, Ill. Nut-lock. No. 1,304,667; May 27; v. 262; p. 514.
- Edwards, Isaac L., Aurora, Ill. Spike. No. 1,318,315; Oct. 7; v. 267; p. 126.
- Edwards, James L., Dallas, Tex. Steam-engine. No. 1,304,864; May 27; v. 262; p. 551.
- Edwards, James L., Birmingham, England. Fastening for detachable wheels. No. 1,308,488; July 1; v. 264; p. 87.
- Edwards, James M., New York, N. Y. Gate mechanism. No. 1,311,332; July 29; v. 264; p. 742.
- Edwards, James M., Richmond Hill, N. Y. Measuring and weighing device. No. 1,320,678; Nov. 4; v. 268; p. 59.
- Edwards, Jose S., Helper, Utah. Earthworking implement. No. 1,294,067; Feb. 11; v. 259; p. 286.
- Edwards, Levi T., Philadelphia, Pa., assignor to Talbot Air Lift Company. Air-lift pump. No. 1,302,780; May 6; v. 262; p. 56.
- Edwards Manufacturing Company, The. (See Wells, John T., assignor.)
- Edwards, Ralph R., Helper, Utah. Sanitary holder for razor-strops. No. 1,310,744; July 22; v. 264; p. 600.
- Edwards, Robert S., San Francisco, Calif. Extracting copper from ore. No. 1,319,858; Oct. 28; v. 267; p. 529.
- Edwards, Robert S., Brookline, Mass. Extracting potassium salts. No. 1,320,211; Oct. 28; v. 267; p. 594.
- Edwards, Robert S., Brookline, Mass. Recovering salts from silicates. No. 1,320,212; Oct. 28; v. 267; p. 594.
- Edwards, Thomas J., Bristol, England. Game apparatus. No. 1,315,483; Sept. 9; v. 266; p. 195.
- Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 1,290,942; Jan. 14; v. 258; p. 249.
- Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 1,290,943; Jan. 14; v. 258; p. 249.
- Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Apparatus for coiling and cooling wire rods. No. 1,295,139; Feb. 25; v. 259; p. 593.
- Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Shearing mechanism. No. 1,304,034; May 20; v. 262; p. 355.
- Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 1,314,859; Sept. 2; v. 266; p. 71.
- Edwards, Walker A., Jr., Austin, Tex. Dental implement. No. 1,323,585; Dec. 2; v. 269; p. 68.
- Edwards, William A., assignor of one-half to W. Jay and one-half to Stewart-Warner Speedometer Corporation, Chicago, Ill. Carbureter. No. 1,317,967; Oct. 7; v. 267; p. 58.
- Edwards, William A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,321,296; Nov. 11; v. 268; p. 241.
- Edwards, William C., Jr., Kansas City, Mo. Clip and structural member for plaster-board partition construction. No. 1,296,936; Mar. 11; v. 260; p. 289.
- Edwards, William H. (See Proudft, Edwards, and Winters.)
- Edwards, William H., et al. (See Snell, Harry B., assignor.)
- Edwards, William H., assignor to The Proudft Loose Leaf Company, Grand Rapids, Mich. Loose-leaf binder. No. 1,291,449; Jan. 14; v. 258; p. 366.
- Edwards, William H., assignor to The Proudft Loose Leaf Company, Grand Rapids, Mich. Loose-leaf binder. No. 1,299,694; Apr. 8; v. 261; p. 273.
- Edwards, William J., Fluvanna, Tex. Antislipping device for tires. No. 1,308,057; July 1; v. 264; p. 9.
- Edwards, William S., Long Beach, Calif. Tooth-brush. No. 1,300,937; Apr. 15; v. 261; p. 568.
- Edwin E., Stimpson Company. (See Rau, Henry V., assignor.)
- Edey, Cecil H. A. (See Heyermans, Charles L., assignor.)
- Efaw, Dexter W., Centerville, Iowa. Rest attachment for barber-chairs. No. 1,322,551; Nov. 25; v. 268; p. 579.
- Efrig, John H., Philadelphia, Pa. Identification device. No. 1,322,293; Nov. 18; v. 268; p. 478.
- Egan, Charles E., and E. F. Jackson, assignors of one-third to L. C. Summers, J. R. Criswell, and J. W. Pauley, Charleston, W. Va. Submarine mine. No. 1,306,372; June 10; v. 263; p. 247.
- Egan, James A., East Onondaga, N. Y. Flush-closet tank. No. 1,325,934; Dec. 23; v. 269; p. 632.
- Egbert, George H., Evansville, Ind. Station-indicator. No. 1,295,877; Mar. 4; v. 260; p. 13.
- Egener, Carl A., New York, N. Y. Music notation for the blind. No. 1,320,746; Nov. 4; v. 268; p. 72.
- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission-circuit. No. 1,295,454; Feb. 25; v. 259; p. 665.
- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Phonograph-transmitter. No. 1,303,183; May 6; v. 262; p. 134.
- Egg Preserving and Storage Co. (See Nichols, Ennis M., assignor.)
- Eggers, Anton C., Brooklyn, N. Y., assignor to The Good-year's India Rubber Glove Manufacturing Co. Nursing-bottle. No. 1,303,546; May 13; v. 262; p. 228.
- Eggers, Julius, Wilhelmshöhe, near Cassel, assignor to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel, Wilhelmshöhe, Germany. Superheater for marine, fire, or smoke tube boilers. No. 1,296,055; Mar. 4; v. 260; p. 54.



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- Eggers, Julius, Cassel Wilhelmshöhe, Germany, assignor, by mesne assignments, to Locomotive Superheater Company. Piston packing-ring. No. 1,322,294; Nov. 18; v. 268; p. 479.
- Eggers, Julius, Cassel-Wilhelmshöhe, and P. Thomsen, Cassel, Germany, assignors, by mesne assignments, to Locomotive Superheater Company. Combined marine water-tube boiler and superheater. No. 1,316,701; Sept. 23; v. 266; p. 483.
- Eggert, Charles J., assignor to Three Men Rail Laying Machine Company, La Crosse, Wis. Track-laying machine. No. 1,300,255; Apr. 15; v. 261; p. 423.
- Eggett, Charles E., and D. Young, New York, N. Y. Explosive-engine. No. 1,309,279; July 8; v. 264; p. 263.
- Eggmann, Ernest, Argyle, Wis. Dirigible automobile headlight. No. 1,305,785; June 3; v. 263; p. 105.
- Eggleston, C. P., et al. (See Brown, Marvin H., assignor.)
- Eggleston, Lewis W., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Hygrostat. No. 1,319,055; Oct. 21; v. 267; p. 353.
- Eggleston, Robert N., Muskogee, Okla., assignor to Pull-U-Out Manufacturing Company, St. Louis, Mo. Stake. No. 1,308,939; July 8; v. 264; p. 199.
- Eggleston, Robert N., assignor to Multipull Manufacturing Company, St. Louis, Mo. Ground-stake. No. 1,308,940; July 8; v. 264; p. 199.
- Egleston, Ralph N. (See Beck, Sven L., assignor.)
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Ejector. No. 1,324,236; Dec. 9; v. 269; p. 235.
- Ehle, Henry D., assignor of one-half to R. E. McFarlane, Duluth, Minn. Car-door. No. 1,299,312; Apr. 1; v. 261; p. 158.
- Ehler, Robert C., assignor to The Albert Sechrist Manufacturing Company, Denver, Colo. Pressure-cooker. No. 1,305,702; June 3; v. 263; p. 89.
- Ehnborn, Clemens, Chicago, Ill. Spool. No. 1,319,381. Oct. 21; v. 267; p. 415.
- Ehoff, Clemense R., Arlington, Md. Bedstead attachment. No. 1,292,951; Jan. 28; v. 258; p. 780.
- Ehrenfeld, William C., Flemington, N. J. Tube connecting and vulcanizing means. No. 1,314,256; Aug. 26; v. 265; p. 539.
- Ehret, Cornelius D., Philadelphia, Pa. Method of and apparatus for controlling electrical energy. No. 1,303,184; May 6; v. 262; p. 134.
- Ehret, Cornelius D., Philadelphia, Pa. Electric-wave transmission. No. 1,314,311; Aug. 26; v. 265; p. 549.
- Ehret, Cornelius D., Philadelphia, Pa. Method of and apparatus for controlling electrical energy. No. 1,318,855; Oct. 14; v. 267; p. 289.
- Ehret Magnesia Manufacturing Company. (See Stone, Harry E., assignor.)
- Ehrhart, Raymond A., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for withdrawing non-condensable vapors from condensers. (Reissue.) No. 14,678; July 1; v. 264; p. 136.
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condenser. No. 1,312,898; Aug. 12; v. 265; p. 229.
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Air-pump. No. 1,326,652; Dec. 30; v. 269; p. 804.
- Ehrke, Lydia, Bozeman, Mont. Bread-board. No. 1,315,101; Sept. 2; v. 266; p. 115.
- Ehrlich, Emil E., Citrus Park, Fla. Slicing and sawing device. No. 1,290,528; Jan. 7; v. 258; p. 124.
- Ehrlich, Emil E., Kankakee, Ill. Power-driven meat-saw. No. 1,302,333; Apr. 29; v. 261; p. 907.
- Ehrler, William. (See Stouffer and Ehrler.)
- Ehrlich, William, Chicago, Ill. Back-pressure-unloading valve. No. 1,321,901; Nov. 18; v. 268; p. 405.
- Eiane, Halvor O., Detroit Harbor, Wis. Submarine gun. No. 1,312,897; Aug. 12; v. 265; p. 229.
- Eich, Charles, Hoboken, N. J. Aerial war-ship. No. 1,294,334; Feb. 11; v. 259; p. 348.
- Eichberger, William, and E. Watson, Woodhaven, N. Y. Polishing-machine. No. 1,294,430; Feb. 18; v. 259; p. 406.
- Eichblatt, Otto H., Houston, Tex. Domino-shuffler. No. 1,291,808; Jan. 21; v. 258; p. 482.
- Eichhorn, Friedrich, administrator. (See Mauser, Paul.)
- Eichin, Donald V., Olney, Ill. Cigar-lighter. No. 1,296,056; Mar. 4; v. 260; p. 55.
- Eichinger, Henry. (See Pauly and Eichinger.)
- Eichling, Charles W., Jr., Memphis, Tenn. Storage and display stand. No. 1,303,185; May 6; v. 262; p. 134.
- Eichorst, Herman E., Waldorf, Minn. Heater. No. 1,297,124; Mar. 11; v. 260; p. 331.
- Eick, Otto, Baltimore, Md. Bottle-cleaning apparatus. No. 1,292,278; Jan. 21; v. 258; p. 599.
- Eickhoff, Theodore H., Cleveland, Ohio, assignor, by mesne assignments, to Auto-Ordinance Corporation, New York, N. Y. Firearm. No. 1,312,687; Aug. 12; v. 265; p. 188.
- Eldlitz, Charles L., New York, N. Y. Fuse-plug. No. 1,310,182; July 15; v. 264; p. 466.
- Eldmann, Frank L., Holyoke, Mass., assignor to Cowan Truck Company. Elevating-truck. No. 1,306,417; June 10; v. 263; p. 255.
- Eldson, Charles G., and T. Davis, Baltimore, and D. E. Crouse, Annapolis, assignors, by mesne assignments, to The John Ford Starter Company, Baltimore, Md. Rotary motor. No. 1,320,679; Nov. 4; v. 268; p. 59.
- Eldt, John N., Anaconda, Mont. Kid hair-curler. No. 1,301,667; Apr. 22; v. 261; p. 749.
- Elfried, Petar, Passaic, N. J. Attachment for fire-alarm boxes. No. 1,311,881; Aug. 5; v. 265; p. 6.
- Ellers, Adolf H., et al. (See Johnson, Pierce X., assignor.)
- Ellers, Frank B., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Discharge and drip-pan guard for pumps. No. 1,324,545; Dec. 9; v. 269; p. 295.
- Eilers, Hio P., New York, N. Y. Reversible table for drill-presses. No. 1,321,724; Nov. 11; v. 268; p. 322.
- Einfieldt, Emil, assignor to French & Hecht, Davenport, Iowa. Traction-wheel. No. 1,295,017; Feb. 18; v. 259; p. 541.
- Einfieldt, Ernest E., assignor to French & Hecht, Davenport, Iowa. Tension-wheel and producing same. No. 1,299,439; Apr. 8; v. 261; p. 215.
- Einfieldt, Ernest E., assignor to G. W. French, N. French, J. L. Hecht, and W. H. Stackhouse, Davenport, Iowa, composing the firm of French & Hecht. Work-holding mechanism. No. 1,316,702; Sept. 23; v. 266; p. 483.
- Einfieldt, James F., San Francisco, Cal. Milk-bottle-cap remover. No. 1,290,944; Jan. 14; v. 258; p. 250.
- Einstein, Milton I. D., New York, N. Y. Photograph-holder. No. 1,307,394; June 24; v. 263; p. 500.
- Einstein, Samuel M., Proprietor. (See Fisher, George L., assignor.)
- Einstein, Samuel M., et al. (See Mossberg, Frank, assignor.)
- Elrick, William F., et al. (See Evers, William H., assignor.)
- Eis, Julius O., and E. J. Knauff, Chicago, Ill. Electric fitting. No. 1,301,546; Apr. 22; v. 261; p. 726.
- Eisele, Louis F., Philadelphia, Pa. Shower-bath stall. No. 1,318,329; Oct. 7; v. 267; p. 128.
- Eisemann Magneto Corporation. (See Gassmann and Uhl, assignors.)
- Eisenbach, Ernest E., Philadelphia, Pa. Oil-burner. No. 1,322,771; Nov. 25; v. 268; p. 621.
- Eisenhardt, William J., Baltimore, Md. Dispensing apparatus. No. 1,313,174; Aug. 12; v. 265; p. 284.
- Eisenhart, Lyle C., and W. A. Lewis, Silver City, Idaho. Book-rest. No. 1,323,586; Dec. 2; v. 269; p. 68.
- Eisenhauer, Herman H., Newport, R. I. Target game device. No. 1,291,450; Jan. 14; v. 258; p. 366.
- Eisenlohr, Carl. (See Hren and Eisenlohr.)
- Eisenmann, Carl W., Nebraska City, Nebr. Current-detector. No. 1,292,279; Jan. 21; v. 258; p. 599.
- Eisenmann, Charles W. J. S. Hodel, and G. W. Bafer, assignors to C. W. Eisenmann and J. S. Hodel, Cissna Park, Ill. Feed-regulator. No. 1,312,314; Aug. 5; v. 265; p. 86.
- Eisler, Charles, Irvington, assignor of one-third to G. Zisch and one-third to Newark Engineering and Refrigerating Company, Newark, N. J. Sheet-metal device. No. 1,309,616; July 15; v. 264; p. 363.
- Eisler, Charles, Irvington, N. J., assignor to Westinghouse Lamp Company. Means for increasing the efficiency of hot-swaging machines. No. 1,324,886; Dec. 16; v. 269; p. 420.
- Eisner, Martin A. (See Eisner, Theodor D., assignor.)
- Eisner, Theodor D., Woodhaven, N. Y. Support for embroidery-frames. No. 1,295,140; Feb. 25; v. 259; p. 593.
- Eisner, Theodor D., Woodhaven, N. Y., assignor to M. A. Eisner, Woodhaven, N. Y. Embroidery-frame. No. 1,310,392; July 15; v. 264; p. 504.
- Eissler, Howard L., Philadelphia, Pa. Hand-shield. No. 1,314,053; Aug. 26; v. 265; p. 500.
- Eisterhold, Sebastian, Rich Fountain, Mo. Two-speed mechanism. No. 1,316,564; Sept. 23; v. 266; p. 457.
- Ek, Nels G., Minneapolis, assignor to Fosston-Carpenter Company, St. Paul, Minn. Grain-sieve. No. 1,305,267; June 3; v. 263; p. 7.
- Ekberg, Harry W., St. Paul, Minn. Motion-picture-reflection apparatus. No. 1,318,269; Oct. 7; v. 267; p. 117.
- Ekley, John B., and W. B. Stoddard, Boulder, Colo. Obtaining pure tungstates. No. 1,322,485; Nov. 18; v. 268; p. 516.
- Ekern Bros. Mfg. Co. (See Ekern, Helmer O. and W. L., assignors.)
- Ekern, Helmer O. and W. L., assignors to Ekern Bros. Mfg. Co., Flandreau, S. D. Grease-gun. No. 1,321,020; Nov. 4; v. 268; p. 125.
- Ekern, Willie L. (See Ekern, Helmer O. and W. L.)
- Ekker, Evert C., The Hague, Netherlands. Military dress. No. 1,291,809; Jan. 21; v. 258; p. 482.
- Ekle, Alexander C., Mankato, Minn. Control for transmission-gears. No. 1,309,469; July 8; v. 264; p. 298.
- Eklund, Albert, Pendleton, Oreg. Shoe-lace. No. 1,303,868; May 20; v. 262; p. 325.
- Eklund, Albert, Pendleton, Oreg. Fastening device. No. 1,320,848; Nov. 4; v. 268; p. 92.
- Eklund, Alexander, assignor to Bliss Bros. Co., Attleboro, Mass. Bracelet. No. 1,310,859; July 22; v. 264; p. 622.



- Eklund, Elmer, Jamestown, N. Y. Ice-pick. No. 1,313,804; Aug. 19; v. 265; p. 418.
- Eklund, Karl J., assignor to Mudge & Company, Chicago, Ill. Shipping railway motor-cars and means therefor. No. 1,325,009; Dec. 16; v. 269; p. 443.
- Eklund, Peter R., Little Swan, Minn. Railway-tie. No. 1,325,081; Dec. 16; v. 269; p. 457.
- Ekman, Ernst. (See Carlson, Ernst H., assignor.)
- Ekman, Gunnar A. G., Winchester, Mass. Keyboard attachment for violins. No. 1,318,316; Oct. 7; v. 267; p. 126.
- Ekmekjian, Jacob H., Pasadena, Calif. Fountain toothbrush. No. 1,322,413; Nov. 18; v. 268; p. 502.
- Ekola, Arthur E., Oskar, Mich. Vegetable-grater. No. 1,324,389; Dec. 9; v. 269; p. 265.
- Eklström, Axel C. L., Ballston Spa, N. Y. Combustion of waste fuels. No. 1,295,455; Feb. 25; v. 259; p. 665.
- Eklström, Axel C. L., Ballston Spa, N. Y. Combustion of waste fuels. No. 1,295,456; Feb. 25; v. 259; p. 665.
- Eklstrom, Emil. (See Benon, Moritz, assignor.)
- Eklstrom, Gustaf H., assignor to Rockford Tool Company, Rockford, Ill. Balancing-stand. No. 1,292,280; Jan. 21; v. 258; p. 599.
- Ekvall, Arvid P. (See Stake and Ekvall.)
- Elam, William E., Greenville, Miss. Printing-machine. No. 1,314,133; Aug. 26; v. 265; p. 515.
- Elbert, John J., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Apparatus and process for the production of ammonia. No. 1,313,884; Aug. 26; v. 265; p. 467.
- Elbert, John J., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Production of ammonia. No. 1,313,885; Aug. 26; v. 265; p. 467.
- Elbert, John J., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Purifying ammonia. No. 1,313,886; Aug. 26; v. 265; p. 467.
- Elbertz, Frank V., Detroit, Mich. Differential mechanism. No. 1,317,279; Sept. 30; v. 266; p. 626.
- Elborne, William, Peterborough, England. Chemical heat-producing means. No. 1,312,840; Aug. 12; v. 265; p. 218.
- Elder, Benjamin S., Durham, England. Punching-machine, drilling-machine, and the like. No. 1,313,277; Aug. 19; v. 265; p. 320.
- Elder, Donald, New York, N. Y. Concrete-paving machine. No. 1,296,495; Mar. 4; v. 260; p. 151.
- Elder, George S., St. Louis, Mo. Gauze-dispensing device. No. 1,307,542; June 24; v. 263; p. 527.
- Elder, George W. (See Elder, John R. and G. W.)
- Elder, John R., Sioux City, and G. W. Elder, Forest City, Iowa. Animal-trap. No. 1,307,963; June 24; v. 263; p. 604.
- Elder, Joseph H., Avery, assignor of one-half to J. C. Foster, Clarkesville, Tex. Carton. No. 1,315,102; Sept. 2; v. 266; p. 115.
- Elder, Joseph H., Avery, assignor of one-half to J. C. Foster, Clarkesville, Tex. Carton. No. 1,315,103; Sept. 2; v. 266; p. 115.
- Elder, Leonard G., *et al.* (See Garnett, Thomas W., assignor.)
- Elder, Louis E. (See Gilbert, Taylor, Dean, and Elder.)
- Elder Manufacturing Company. (See Rowan, William P., assignor.)
- Elder, Samuel B. (See Bower and Elder.)
- Elderkin, James K., Jr., Newark, N. J. Generator and storage-battery system for lighting, &c. No. 1,320,747; Nov. 4; v. 268; p. 73.
- Elderkin, James K., Jr., Newark, assignor to Electric Rectifier Company, East Orange, N. J. System of electrical rectification and distribution. No. 1,325,357; Dec. 16; v. 269; p. 508.
- Eldred, Byron E., and G. Mersereau, New York, N. Y., assignors to Chemical Development Company. Regulating catalysis. No. 1,308,777; July 18; v. 264; p. 169.
- Eldred, Irma V., Cosmopolis, Wash. Lock. No. 1,307,395; June 24; v. 263; p. 500.
- Eldredge, Robert J., Waverly, Iowa. Spanner-lug. No. 1,305,529; June 3; v. 263; p. 56.
- Eldridge, John, assignor to R. S. Dollar, Oakland, Calif. Brick-venezing machine. No. 1,315,916; Sept. 9; v. 266; p. 273.
- Electora Manufacturing Company. (See Garman, George W., assignor.)
- Electric Auto-Lite Corporation. (See Kester and Gilchrist, assignors.)
- Electric Boat Company. (See Anderson, John W., assignor.)
- Electric Boat Company. (See Bedell, Charles H., assignor.)
- Electric Boat Company. (See Bedell and Edgar, assignors.)
- Electric Boat Company. (See Grieshaber, Hugo E., assignor.)
- Electric Boat Company. (See Grieshaber and Simpson, assignors.)
- Electric Boat Company. (See Hibbs and Gunn, assignors.)
- Electric Boat Company. (See Hollander, Aladar, assignor.)
- Electric Boat Company. (See Spear, Lawrence Y., assignor.)
- Electric Boat Company. (See Thelin, Oscar A., assignor.)
- Electric Clipper Company, The. (See White, Fred G., assignor.)
- Electric Controller & Manufacturing Company, The. (See Canfield, Harry R., assignor.)
- Electric Controller & Manufacturing Company, The. (See Rippl., Charles H., assignor.)
- Electric Controller & Manufacturing Company, The. (See Stratton, Harry F., assignor.)
- Electric Controller & Manufacturing Company. (See Wright, Reuben I., assignor.)
- Electric Furnace Company, The. (See Baily and Cope, assignors.)
- Electric Horse Manufacturing and Amusement Co. (See Johnson, Charley L., assignor.)
- Electric Railway Improvement Company, The. (See Cadwell, Charles A., assignor.)
- Electric Railway Improvement Company, The. (See Crelcius, Lawrence P., assignor.)
- Electric Railway Improvement Company, The. (See Cleveland, William B., assignor.)
- Electric Railway Improvement Company, The. (See Herick, Albert B., assignor.)
- Electric Railway Improvement Company, The. (See Huber, William E., assignor.)
- Electric Railway Improvement Company, The. (See Kjellgren and Stephenson, assignors.)
- Electric Rectifier Company. (See Elderkin, James K., Jr., assignor.)
- Electric Reduction Company. (See Bleecker and Morrison, assignors.)
- Electric Rotary Machine Company. (See Miller, Royal R., assignor.)
- Electric Rubber Reclaiming Company, The. (See Johnston, John F., assignor.)
- Electric Sales Service Co. (See Mulvany and Kennedy, assignors.)
- Electric Service Supplies Company. (See Darling, Lewis A., assignor.)
- Electric Service Supplies Company. (See Englund and Mayer, assignors.)
- Electric Service Supplies Company. (See Lewis, Henry G., assignor.)
- Electric Service Supplies Company. (See Mayer, Walter S., assignor.)
- Electric Service Supplies Company. (See McFarlin, John R., assignor.)
- Electric Service Supplies Company. (See Pike, Lorenzo H., assignor.)
- Electric Specialty Company. (See Brillhart, Elmer L., assignor.)
- Electric Storage Battery Company, The. (See Lobdell, Wilbur S., assignor.)
- Electric Storage Battery Company. (See Phinney and Beck, assignors.)
- Electric Time Recorder Company. (See Straub, William F., assignor.)
- Electric Weighing Company. (See Messiter, Edwin H., assignor.)
- Electric Wheel Company. (See Calkins, Addison N., assignor.)
- Electrical Conveying Machinery Company. (See Messick, Charles, assignor.)
- Electro Bleaching Gas Company. (See Ornstein, Georg, assignor.)
- Electro Chemical Company, The. (See Niswonger and McDorman, assignors.)
- Electro Dental Manufacturing Company. (See Russell, Percy, assignor.)
- Electro-Dynamic Company. (See Trudeau, John F., assignor.)
- Electro Luminous Sign Company. (See Elliott and Williams, assignors.)
- Electro Metallurgical Company. (See Becket, Frederick M., assignor.)
- Electro-Magnetic Tool Company. (See Knowlson, James S., assignor.)
- Electrolytic Zinc Company. (See Aldrich and Bryan, assignors.)
- Electrolytic Zinc Company. (See Stuart, Heber M., assignor.)
- Electrolytic Zinc Company of Australasia Proprietary Limited. (See Gepp, Avery, Stevens, and Whitecotton, assignors.)
- Electrolytic Zinc Company of Australasia Proprietary Limited. (See Stevens, Royale H., assignor.)
- Electromatic System Company. (See Bucher, William W., assignor.)
- Electromotor Equipment Company Ltd. (See Brenner, William H., assignor.)
- Electron Chemical Company. (See Allen, Herbert I., assignor.)
- Elektriska Pannrensnings Aktiebolaget. (See Sandblom, Gideon E., assignor.)
- Elektrizitätswerk Lonza. (See Lichtenhahn, Theodor, assignor.)
- Elektro-Osmose Aktiengesellschaft (Graf Schwerin Gesellschaft). (See Schwerin, Botho, assignor.)
- Elephant Tread Wheel Company. (See Vogt, John A., assignor.)
- Elerick, Fred J., assignor of one-half to F. W. E. T. Hammer, Bridgeport, Ohio. Automobile-curtain. No. 1,325,282; Dec. 16; v. 269; p. 495.



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- Elevator Supplies Company. (See Cummings, Preston W., assignor.)
- Elevator Supplies Company. (See Graham, James M., assignor.)
- Elevator Supplies Company. (See Johnson, Frank, assignor.)
- Elevator Supply & Repair Company. (See Wyld and Reihners, assignors.)
- Eley, Charles V. A., Birmingham, England. Ship. No. 1,301,238; Apr. 22; v. 261; p. 668.
- Eley, Charles V. A., Edgbaston, Birmingham, England. Collision-mat for use on ships. No. 1,309,022; July 8; v. 264; p. 216.
- Eley, John, et al. (See Allwood, Ernest, assignor.)
- Elfborg, Henry G., Chicago, Ill. Nut-lock. No. 1,306,418; June 10; v. 263; p. 255.
- Elger, Joseph, Chicago, Ill. Liquid-cooling apparatus. No. 1,323,587; Dec. 2; v. 269; p. 68.
- Elgin Gas Motor Company. (See Redeker and Thompson, assignors.)
- Elgin Gas Motor Company. (See Thompson, Herbert L., assignor.)
- Elgin Tractor Corporation. (See Waite, Harry C., assignor.)
- El Lilly and Company, The. (See Rhodehamel, Harley W., assignor.)
- Elia, Giovanni E., New York, N. Y. Apparatus for detecting and indicating the presence of submarine boats. No. 1,293,740; Feb. 11; v. 259; p. 208.
- Elia, Giovanni E., New York, N. Y. Apparatus for detecting and indicating the presence of submarine boats. No. 1,308,003; June 24; v. 263; p. 611.
- Elia, Giovanni E., New York, N. Y. Apparatus for destroying submarine boats. No. 1,309,120; July 8; v. 264; p. 234.
- Elia, Giovanni E., New York, N. Y. Torpedo-boat. No. 1,312,391; Aug. 5; v. 265; p. 100.
- Elia, Giovanni E., New York, N. Y. Apparatus for detecting and indicating the presence of submarine boats. No. 1,320,610; Nov. 4; v. 268; p. 47.
- Elia, Giovanni E., Turin, Italy. Anchor for submarine mines. No. 1,303,272; May 13; v. 262; p. 179.
- Elia, Giovanni E., Turin, Italy. Explosive-mine apparatus. No. 1,309,121; July 8; v. 264; p. 234.
- Elia, Giovanni E., Rome, Italy. Apparatus for detecting and indicating the presence of submarine boats. No. 1,310,563; July 22; v. 264; p. 566.
- Elia, Giovanni E., Washington, D. C. Protective device for ships. No. 1,312,841; Aug. 12; v. 265; p. 219.
- Elia, Giovanni E., Fortress Monroe, Va. Submarine-boat-detection apparatus. No. 1,321,998; Nov. 18; v. 268; p. 423.
- Elia, Giovanni E., London, England. Apparatus for detecting and indicating the presence of submarine boats. No. 1,326,156; Dec. 23; v. 269; p. 673.
- Elia, Giovanni E., Westminster, London, assignor to Vickers Limited, London, England. Submarine mine. No. 1,296,273; Mar. 4; v. 260; p. 104.
- Elia, Giovanni E., New York, N. Y., assignor to Vickers Limited, London, England. Submarine mine. No. 1,296,376; Mar. 4; v. 260; p. 126.
- Elia, Giovanni E., assignor to Vickers Limited, Westminster, England. Submarine mine. No. 1,299,440; Apr. 8; v. 261; p. 215.
- Elia, Giovanni E., Paris, France, assignor to Vickers Limited, Westminster, England. Inertia device for controlling the firing of submarine mines. No. 1,305,080; May 27; v. 262; p. 591.
- Elizondo, Fernando R., Mexico. Automobile-jack. No. 1,297,334; Mar. 18; v. 260; p. 406.
- Elker, Bernard P., Pittsburgh, Pa. Mechanical movement. No. 1,321,902; Nov. 18; v. 268; p. 406.
- Elkins, Abraham, Brooklyn, N. Y. Ash-receptacle. No. 1,321,725; Nov. 11; v. 268; p. 322.
- Elkins, Willard A., Fort Stevens, Oreg. Adjustable lighter. No. 1,292,591; Jan. 28; v. 258; p. 965.
- Elkins, Woodford W., Reno, Nev. Pipe-hanger. No. 1,322,414; Nov. 18; v. 268; p. 502.
- Elks, Willie M., and S. J. Dixon, Weldon, N. C. Wood-working-machine. No. 1,297,125; Mar. 11; v. 260; p. 331.
- Ellard, Hugh F., Gilmore, Idaho. Conveyer-cable. No. 1,305,204; May 27; v. 262; p. 615.
- Ellboj, John, Stockholm, Sweden. Casting grooves or impressions in rollers. No. 1,309,513; July 8; v. 264; p. 306.
- Elleby, Frederic W., Modesto, Cal. Milker's mask. No. 1,290,140; Jan. 7; v. 258; p. 31.
- Eller, Fred M. (See Thorson and Eller.)
- Ellerd - Styles, William, London, England. Electrical switch. No. 1,306,141; June 10; v. 263; p. 201.
- Ellert, Charles O., Brooklyn, N. Y. Liquid-fuel tank. No. 1,303,642; May 13; v. 262; p. 245.
- Ellert, Charles O., New York, N. Y. Centering apparatus for concrete construction. No. 1,317,564; Sept. 30; v. 266; p. 682.
- Ellett, Frederick S. (See Rundell, Ogden, and Ellett.)
- Ellett, Stephen A., Elmira, N. Y. Automatic change-speed gearing. No. 1,320,460; Nov. 4; v. 268; p. 19.
- Ellery, Robert L., Toledo, Ohio, assignor, by mesne assignments, to Pfanstiehl Company, Inc. Making headed articles. No. 1,290,529; Jan. 7; v. 258; p. 125.
- Elles, John, Warren, Ohio. Beet-topper. No. 1,297,666; Mar. 18; v. 260; p. 475.
- Elliff, James R., Husum, Wash. Animal-tail holder. No. 1,320,213; Oct. 28; v. 267; p. 594.
- Ellinger, Julian O., New York, N. Y. Unit-frame. No. 1,293,061; Feb. 4; v. 259; p. 21.
- Ellingham, Robert W., assignor to Hendee Manufacturing Company, Springfield, Mass. Safety-lock for gear-shift levers. No. 1,326,041; Dec. 23; v. 269; p. 652.
- Ellingson, Gabe, Kimball, S. D. Pump. No. 1,325,398; Dec. 16; v. 269; p. 516.
- Ellingsworth, Young S., Geneseo, Ill. Hand-trip for grain-binders. No. 1,307,246; June 17; v. 263; p. 439.
- Elliott, Alexander D., Viola, Ill. Seam-welding machine. No. 1,310,610; July 22; v. 264; p. 576.
- Elliott, Alexander T., assignor of one-half to A. L. Stewart, Los Angeles, Calif. Obtaining magnesium carbonate. No. 1,321,424; Nov. 11; v. 268; p. 265.
- Elliott, Clarence V., Schenectady, N. Y., assignor to General Electric Company, Arc-welding electrode. No. 1,294,250; Feb. 11; v. 259; p. 329.
- Elliott, Elias L., and H. S. Williams, Ithaca, N. Y., assignors to Electro Luminous Sign Company (Inc.). Illuminator for luminous signs. No. 1,323,684; Dec. 2; v. 269; p. 86.
- Elliott-Fisher Company. (See Hunter, Charles H., assignor.)
- Elliott, George B., Wilmington, N. C. Curtain-fastener. No. 1,322,772; Nov. 25; v. 268; p. 621.
- Elliott, George G., Ottawa, Ontario, Canada. Wheel. No. 1,292,734; Jan. 28; v. 258; p. 729.
- Elliott, Homer H., Rose, Kans. Lamp. No. 1,301,921; Apr. 29; v. 261; p. 830.
- Elliott, James P., Oak Park, Ill. Waterproof roofing material or the like and making same. No. 1,305,081; May 27; v. 262; p. 592.
- Elliott, Joseph S., Eddy, Tex. Overall jacket or waist. No. 1,300,938; Apr. 15; v. 261; p. 568.
- Elliott, Patrick J., assignor of one-half to E. Streng, Jackson Bay, British Columbia, Canada. Logging-hook. No. 1,303,048; May 6; v. 262; p. 108.
- Elliott, Pearl V., Akron, Ohio. Bumper for vehicles. No. 1,293,385; Feb. 4; v. 259; p. 95.
- Elliott, Percy M., Chicago, Ill. Sheet-metal freight-car door. No. 1,300,143; Apr. 8; v. 261; p. 373.
- Elliott, Richard P., Lexington, Mass. Fixture used in the manufacture of piston-rings. No. 1,292,735; v. 258; p. 729.
- Elliott, Robert H., Carthage, Mo. Dispensing vessel. No. 1,304,463; May 20; v. 262; p. 438.
- Elliott, Sterling, Newton, Mass. Sliding-door-operating device. No. 1,324,587; Dec. 9; v. 269; p. 303.
- Elliott, Sterling, Newton, Mass. Electrically-operated door. No. 1,326,130; Dec. 23; v. 269; p. 648.
- Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Car-truck. No. 1,322,295; Nov. 18; v. 268; p. 479.
- Elliott, William, Marshfield, Oreg. Gun-sight. No. 1,316,945; Sept. 23; v. 266; p. 527.
- Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Mount and mounting lacing-hooks. No. 1,291,810; Jan. 21; v. 258; p. 482.
- Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Mounting and packaging small articles. No. 1,295,141; Feb. 25; v. 259; p. 593.
- Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Packaging-fastener. No. 1,306,107; June 10; v. 263; p. 195.
- Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Machine for applying fasteners. No. 1,313,941; Aug. 26; v. 265; p. 478.
- Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Feeding mechanism for button-attaching machines. No. 1,313,942; Aug. 26; v. 265; p. 478.
- Elliott, William J., Brooklyn, N. Y. Combination store-top and water-heater for gas and vapor stoves. No. 1,305,647; June 3; v. 263; p. 80.
- Elliott, William S., Pittsburgh, Pa. Treatment of liquids. No. 1,321,999; Nov. 18; v. 268; p. 423.
- Ellis, Albert H., Brielle, N. J., assignor, by mesne assignments, to Remington Typewriter Company, Ilion, N. Y. Type-writing and computing machine. No. 1,316,434; Sept. 16; v. 266; p. 384.
- Ellis, Alfred G., Bowdon, and J. L. Thompson, Stretford, England, assignors to Westinghouse Electric and Manufacturing Company. Transformer. No. 1,317,280; Sept. 30; v. 266; p. 627.
- Ellis, Alvarado L. R. (See Porter and Ellis.)
- Ellis, Carl O., Tacoma, Wash. Color medium. No. 1,298,917; Apr. 1; v. 261; p. 69.
- Ellis, Carleton, Montclair, N. J. Hardening oil. No. 1,294,068; Feb. 11; v. 259; p. 286.
- Ellis, Carleton, Montclair, N. J. Nickel-formate catalyst and making same. No. 1,296,496; Mar. 4; v. 260; p. 151.



- Ellis, Carleton, Montclair, N. J. Electrically preparing catalysts for hydrogenation. No. 1,299,565; Apr. 8; v. 261; p. 244.
- Ellis, Carleton, Montclair, N. J. Catalysis. No. 1,300,144; Apr. 8; v. 261; p. 373.
- Ellis, Carleton, Montclair, N. J. Oil-proof-paper container and making same. No. 1,311,595; July 29; v. 264; p. 791.
- Ellis, Carleton, Montclair, N. J. Hydrogen-free catalyzer and making same. No. 1,320,039; Oct. 28; v. 267; p. 562.
- Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to Surface Combustion, Inc., Wilmington, Del. Cracking heavy oils. No. 1,295,825; Feb. 25; v. 259; p. 751.
- Ellis, Carleton, Montclair, N. J., assignor to Hydrogenated Oil Company. Edible oil product. (Reissue.) No. 1,4607; Mar. 11; v. 260; p. 371.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making briquets or other molded articles. (Reissue.) No. 1,4653; May 27; v. 262; p. 622.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Sulfite-liquor product and producing same. No. 1,311,215; July 29; v. 264; p. 721.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Binding agent. No. 1,311,216; July 29; v. 264; p. 721.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Dried sulfite-waste-liquor solid and making same. No. 1,311,217; July 29; v. 264; p. 721.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Drying sulfite waste liquor. No. 1,311,218; July 29; v. 264; p. 721.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Binding and adhesive substance, tanning agent, and the like. No. 1,311,219; July 29; v. 264; p. 721.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Sulfite-waste-liquor product. No. 1,311,220; July 29; v. 264; p. 721.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Briquet and manufacturing the same. No. 1,311,221; July 29; v. 264; p. 721.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Briquet and making same. No. 1,311,222; July 29; v. 264; p. 721.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Composition of matter adapted for use as disinfecting solutions, &c. No. 1,302,905; May 6; v. 262; p. 81.
- Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Composite solvent and making same. No. 1,306,221; June 10; v. 263; p. 217.
- Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to Surface Combustion, Inc., Wilmington, Del. Gas-distribution apparatus. No. 1,304,754; May 27; v. 262; p. 531.
- Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to Surface Combustion, Inc., Wilmington, Del. Domestic gas heating apparatus. No. 1,304,755; May 27; v. 262; p. 531.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Co. Catalyzer for oxidizing reactions. No. 1,314,952; Sept. 2; v. 266; p. 87.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making derivatives of petroleum hydrocarbons. No. 1,317,868; Oct. 7; v. 267; p. 39.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Motor-spirit. No. 1,318,060; Oct. 7; v. 267; p. 76.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making motor-fuel. No. 1,318,061; Oct. 7; v. 267; p. 76.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making oxides of bismuth. No. 1,318,336; Oct. 7; v. 267; p. 129.
- Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Electrolytic higher-oxid-of-manganese depolarizing agent and making same. No. 1,322,000; Nov. 18; v. 268; p. 423.
- Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Densified depolarizing agent and making same. No. 1,322,001; Nov. 18; v. 268; p. 424.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Obtaining cement and soluble potassium compounds. (Reissue.) No. 1,4773; Dec. 23; v. 269; p. 674.
- Ellis, Carleton, and A. A. Wells, Montclair, N. J. Gasoline-engine-cylinder cleaner. No. 1,310,985; July 22; v. 264; p. 644.
- Ellis, Carleton, Montclair, and A. A. Wells, Caldwell, N. J., assignors to Ellis-Foster Company. Nitration method. No. 1,309,320; July 8; v. 264; p. 270.
- Ellis Drier & Elevator Company. (See Ellis, Hubert C., assignor.)
- Ellis, Elmer E., Pomona, Calif. Mowing-machine. No. 1,326,256; Dec. 30; v. 269; p. 730.
- Ellis, Ernest P. (See Dawson, Buckham, and Ellis.)
- Ellis, Fanny, administratrix. (See Ellis, Peter.)
- Ellis-Foster Company. (See Darling, Elton R., assignor.)
- Ellis-Foster Company. (See Ellis, Carleton, assignor.)
- Ellis-Foster Company. (See Ellis and Wells, assignors.)
- Ellis-Foster Company. (See Rabinovitz, Louis, assignor.)
- Ellis-Foster Company. (See Weber, Harry M., assignor.)
- Ellis, Francis M., Oak Park, Ill. Anchor or tie for building constructions. No. 1,301,668; Apr. 22; v. 261; p. 749.
- Ellis, Frank E., Revere, Mass. Printer's blanket. No. 1,296,782; Mar. 11; v. 260; p. 253.
- Ellis, Frank E., Revere, Mass. Unitary printer's blanket. No. 1,311,596; July 29; v. 264; p. 792.
- Ellis, George H., St. Paul, Minn. Insulating plaster-board. No. 1,317,158; Sept. 30; v. 266; p. 604.
- Ellis, Hubert C., Evanston, assignor to Ellis Drier & Elevator Company, Chicago, Ill. Grain-drier. No. 1,313,279; Aug. 19; v. 265; p. 320.
- Ellis, James H., Milwaukee, assignor of one-eighth to E. H. Steiger and one-eighth to E. L. Ream, Oshkosh, Wis. Diaphragm for sound-boxes. No. 1,316,703; Sept. 23; v. 266; p. 484.
- Ellis, Joseph, assignor to Featheredge Rubber Company, Chicago, Ill. Sponge-trimming machine. No. 1,291,811; Jan. 21; v. 258; p. 482.
- Ellis, Julius N., Petersham, New South Wales, Australia. Feed-water-regulating valve for steam-boilers. No. 1,313,373; Aug. 19; v. 265; p. 337.
- Ellis, Lee K., East Lynn, assignor to Lynn Last Company, Lynn, Mass. Last. No. 1,290,141; Jan. 7; v. 258; p. 31.
- Ellis, Lexey B., Jr., Memphis, Tenn. Toy. No. 1,323,033; Nov. 25; v. 268; p. 669.
- Ellis, Milan A., Davenport, Iowa, assignor of one-fourth to G. C. Weck. Current-water-motor machine. No. 1,304,284; May 20; v. 262; p. 402.
- Ellis, Oswald T. (See Coulter, Charles J., assignor.)
- Ellis, P. T., et al. (See Lamar, Alexis L., assignor.)
- Ellis, Peter, deceased, Stanley Bay, Auckland, New Zealand; F. Ellis, administratrix. Jar and closure for same. No. 1,321,425; Nov. 11; v. 268; p. 266.
- Ellis, Ross H., Ketchall, Tenn. Splint for setting broken limbs. No. 1,326,717; Dec. 30; v. 269; p. 816.
- Ellis, Walter H., Augusta, Ga. Weighing-machine. No. 1,321,726; Nov. 11; v. 268; p. 322.
- Ellison, August J., assignor of one-half to E. H. Day, Montreal, Quebec, Canada. Spirit-level. No. 1,298,024; Mar. 25; v. 260; p. 578.
- Ellison, Edward H., assignor to Jamestown Car Parts Manufacturing Company, Jamestown, N. Y. Radiator for automobiles. No. 1,321,813; Nov. 18; v. 268; p. 389.
- Ellison, Lottie B., Rawles Springs, Miss. Automobile-door. No. 1,323,177; Nov. 25; v. 268; p. 697.
- Ellison, Thomas J., Terrill, Ky. Animal-trap. No. 1,297,667; Mar. 18; v. 260; p. 475.
- Ellison, Thomas J., Terrill, Ky. Corn-planter. No. 1,298,483; Mar. 25; v. 260; p. 675.
- Ellison, Thomas J., Terrill, Ky. Animal-trap. No. 1,303,547; May 13; v. 262; p. 228.
- Elithorpe, Gilbert S., assignor of one-fourth to N. D. Fraser, Chicago, Ill. Heel-lift. No. 1,303,869; May 20; v. 262; p. 325.
- Elman, Louis, assignor to The Hagan Corporation, Pittsburgh, Pa. Conveying apparatus for disintegrated material. No. 1,296,497; Mar. 4; v. 260; p. 151.
- Elmauerer, John P., Fairchild, Wis. Drilable headlight. No. 1,298,314; Mar. 25; v. 260; p. 639.
- Ellsworth, Charles J., assignor to E. W. Bliss Company, Brooklyn, N. Y. Making bullets, especially shrapnel. No. 1,309,938; July 15; v. 264; p. 422.
- Ellsworth, William, Parkwood, Oreg. Fish-tackle. No. 1,296,057; Mar. 4; v. 260; p. 55.
- Ellsworth, William K., Bremerton, Wash. Oil-burner. No. 1,307,625; June 24; v. 263; p. 541.
- Elmen, Gustaf W., Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnet-core. No. 1,297,126; Mar. 11; v. 260; p. 331.
- Elmen, Gustaf W., Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnet-core. No. 1,297,127; Mar. 11; v. 260; p. 332.
- Elmen, Gustaf W., Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,301,412; Apr. 22; v. 261; p. 702.
- Elmer, Henry A., Maribel, Wis. Straw-cutter for threshing-machines. No. 1,324,147; Dec. 9; v. 269; p. 218.
- Elmer, James P., assignor to Moore Patent Car Company, St. Paul, Minn. Car-heater. No. 1,292,410; Jan. 21; v. 258; p. 629.
- Elmer, Martin, Hastings, Mich. Frangible seal. No. 1,297,452; Mar. 18; v. 260; p. 430.
- Elmstrom, Anshelm B., Worcester, Mass. Shoe-stretcher. No. 1,318,651; Oct. 14; v. 267; p. 250.
- Elniff, John, Kansas City, Mo. Ship construction. No. 1,310,181; July 15; v. 264; p. 466.
- Eloesser, Herbert, San Francisco, Calif. Pocket. No. 1,302,334; Apr. 29; v. 261; p. 907.
- Elowsky, Samuel M., Brooklyn, N. Y. Nursing-blouse. No. 1,290,142; Jan. 7; v. 258; p. 31.
- Eloyn, Jacob W. (See Christoph, Edward A., assignor.)
- Elirod, Herman W., Nashville, Tenn. Truck. No. 1,299,313; Apr. 1; v. 261; p. 159.



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- Elsas, Herman, New York, assignor to Public Service Cup Company, Brooklyn, N. Y. Cup-dispenser. No. 1,318,317; Oct. 7; v. 267; p. 126.
- Elser, August G., assignor to C. E. Barrett, Chicago, Ill. Fountain-pen. No. 1,292,736; Jan. 28; v. 258; p. 729.
- Elsey, Earl. (See Paul and Elsey.)
- Elshoff, Bernard, Newark, N. J. assignor to Westinghouse Electric and Manufacturing Company. Induction-motor. No. 1,306,532; June 10; v. 263; p. 276.
- Elsinger, Francis W. and O. Schmidt, Hartford, Wis. Reeling and unreeling device. No. 1,311,956; Aug. 5; v. 265; p. 19.
- Elsom, William J., assignor to Cortland Forging Company, Cortland, N. Y. Vehicle-top. No. 1,313,076; Aug. 12; v. 265; p. 265.
- Elster, Frank A., Vallejo, Calif. Gas generator and burner. No. 1,320,325; Oct. 28; v. 267; p. 615.
- Elton, Edwin M., Atwater, Ohio. Nut-lock. No. 1,296,174; Mar. 4; v. 260; p. 83.
- Elton, Olaf, Port Washington, Wis., assignor to Gilson Manufacturing Company. Sheet-metal hub for chair-irons. No. 1,316,089; Sept. 16; v. 266; p. 319.
- Elton, Olaf, assignor to Gilson Manufacturing Company, Port Washington, Wis. Governor-controlled mechanism for internal-combustion engines. No. 1,322,002; Nov. 18; v. 268; p. 424.
- Elvin, Albert G., Plandome, and A. B. Fahnestock, Great Neck, N. Y.; said Fahnestock assignor to said Elvin. Mechanical-stoker shovel. No. 1,304,464; May 20; v. 262; p. 438.
- Elwell, Frank T., Los Angeles, Calif. Trolley-wheel. No. 1,304,285; May 20; v. 262; p. 402.
- Elwell, H. M. (See Barrows, Earle M., assignor.)
- Elwell, William R., Cleveland, Ohio. Transmission mechanism for operating engine-shafts. No. 1,291,642; Jan. 14; v. 258; p. 411.
- Elwood, Guy B. (See Compton, Glenn A., assignor.)
- Ely, Walter C., Terre Haute, Ind. Fuel feeder and spreader for furnaces. No. 1,312,526; Aug. 12; v. 265; p. 156.
- Elyria Enameled Products Company, The. (See Goecke, Rudolf F., assignor.)
- Elyria Iron & Steel Company, The, et al. (See Lloyd, Marshall B., assignor.)
- Elyria Iron & Steel Company, The. (See McKee, Willis, assignor.)
- Elzey, Edgar P., assignor to The Au-To Play Goods Company, Parkersburg, W. Va. Child's car or vehicle. No. 1,302,335; Apr. 29; v. 261; p. 908.
- Elzey, Edgar P., assignor to The Au-To Play Goods Company, Parkersburg, W. Va. Hanger for porch and other swings, chairs, and the like. No. 1,325,358; Dec. 16; v. 269; p. 508.
- Elzey, Edgar P., assignor to The Au-To Play Goods Company, Parkersburg, W. Va. Folding chair or seat. No. 1,325,359; Dec. 16; v. 269; p. 508.
- Embossing Company, The. (See Hyatt, Charles M., assignor.)
- Embs, William J., Iron River, Mich. Fuel-feeding device. No. 1,305,648; June 3; v. 263; p. 80.
- Emden, Paul, Berlin, Germany, assignor to General Electric Company. Valve-gear. No. 1,304,286; May 20; v. 262; p. 402.
- Emerson, Adelbert T. (See Stege and Krouse, assignors.)
- Emerson, Alfred W., Millbridge, Me. Window-screen. No. 1,317,361; Sept. 30; v. 266; p. 642.
- Emerson, Arthur W., Dallas, Tex. Vegetable-curing plant. No. 1,316,147; Sept. 16; v. 266; p. 329.
- Emerson Brantingham Company. (See Bates and Hobart, assignors.)
- Emerson Brantingham Company. (See Clay, Harry C., assignor.)
- Emerson-Brantingham Company. (See Davis, Calvin R., assignor.)
- Emerson-Brantingham Company. (See Krieg, Alfred, assignors.)
- Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
- Emerson, Charles H., Milwaukee, Wis. Screw conveyer. No. 1,320,214; Oct. 28; v. 267; p. 594.
- Emerson, Edward H., Mountain Lakes, N. J., assignor to Minerals Separation North American Corporation, New York, N. Y. Ore-concentrating process and apparatus. No. 1,311,882; Aug. 5; v. 265; p. 6.
- Emerson, George B., and C. E. Buysse, Detroit, Mich. Mixing-valve. No. 1,323,526; Dec. 2; v. 269; p. 57.
- Emerson, John A., Chicago, Ill. Device for removing clinkers from furnaces. No. 1,324,498; Dec. 9; v. 269; p. 286.
- Emerson, John W., Scotland, Ark. Self-adjustable water-holst conveyer. No. 1,304,465; May 20; v. 262; p. 438.
- Emerson Phonograph Co. (See Emerson, Victor H., assignor.)
- Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Co., Inc. Producing sound-records. No. 1,299,153; Apr. 1; v. 261; p. 122.
- Emerson, Victor L., Alexandria, Va. Machine element. No. 1,297,128; Mar. 11; v. 260; p. 332.
- Emerson, Victor L., Philadelphia, Pa. Producing machine elements. No. 1,297,129; Mar. 11; v. 260; p. 332.
- Emerson, William F., assignor to Buffalo Metal Goods Company, Buffalo, N. Y. Grease-cup. No. 1,293,386; Feb. 4; v. 259; p. 96.
- Emerson, Wilmot Z., Ellsworth, Mebr. Ensilage-container. No. 1,306,373; June 10; v. 263; p. 247.
- Emery, Frederick A., Haverhill, Mass. Heeling-machine. No. 1,314,071; Aug. 26; v. 265; p. 503.
- Emery, Frederick H., Scranton, Pa. Railway-cross-over. No. 1,297,812; Mar. 18; v. 260; p. 507.
- Emery, Plato G., Chicago, Ill. Shade-holding device. No. 1,300,830; Apr. 15; v. 261; p. 545.
- Emery, Raymond D., assignor to W. M. Whitney, Winchendon, Mass. Instrument for laying out the cutting edges of cutter-knives. No. 1,302,645; May 6; v. 262; p. 31.
- Emery, Walter E., Peoria, Ill. Nut-lock. No. 1,303,784; May 13; v. 262; p. 272.
- Emhardt, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fireproof-oil composition. No. 1,316,881; Sept. 23; v. 266; p. 515.
- Emig, Christian F., Santa Clara, Calif. Surface-decorating. No. 1,323,034; Nov. 25; v. 268; p. 670.
- Emmerrman, Kolman, and W. Nathanson, Chicago, Ill. Radiator. No. 1,313,077; Aug. 12; v. 265; p. 265.
- Emmerson-Brantingham Company. (See Krieg, Alfred, assignor.)
- Emmerson, William A., Chattanooga, Okla. Oil-stove. No. 1,314,312; Aug. 26; v. 265; p. 550.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,290,945; Jan. 14; v. 258; p. 250.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,290,946; Jan. 14; v. 258; p. 250.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. System of ship propulsion. No. 1,297,130; Mar. 11; v. 260; p. 332.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Ship propulsion. No. 1,304,287; May 20; v. 262; p. 402.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Ship propulsion. No. 1,304,288; May 20; v. 262; p. 403.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. System of ship propulsion. No. 1,304,289; May 20; v. 262; p. 403.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Electric system of ship propulsion. No. 1,304,290; May 20; v. 262; p. 403.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,313,078; Aug. 12; v. 265; p. 265.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,313,079; Aug. 12; v. 265; p. 265.
- Emmett Blevens Company, The. (See Blevens, Emmett, assignor.)
- Emmett, Clem, Chicago, Ill. Automobile. No. 1,294,431; Feb. 18; v. 259; p. 407.
- Emmons, Albert F., Swissvale, Pa., assignor of one-half to I. L. Aronson, Pittsburgh, Pa. Game-board. No. 1,312,315; Aug. 5; v. 265; p. 86.
- Emmons, Edgar B. and E. T. Johnson, Davenport, Iowa. Tie lifter and holder. No. 1,297,453; Mar. 18; v. 260; p. 430.
- Emmons, Nathaniel H., 2d. (See Blackwell and Emmons.)
- Emory, Robert J., assignor to Baird Motion Picture Machine Company, Newark, N. J. Kinetoscope. No. 1,292,448; Jan. 28; v. 258; p. 660.
- Emory, Robert J., assignor to Baird Motion Picture Machine Company, Newark, N. J. Shutter mechanism for kinetoscopes. No. 1,293,741; Feb. 11; v. 259; p. 208.
- Emory, Robert J., assignor to Baird Motion Picture Machine Company, Newark, N. J. Take-up reel for kinetoscopes. No. 1,299,566; Apr. 8; v. 261; p. 244.
- Emory, Robert J., assignor to Baird Motion Picture Machine Company, Newark, N. J. Fire-shutter for kinetoscopes. No. 1,301,081; Apr. 15; v. 261; p. 601.
- Empire Art Metal Co. (See Cohen and Connell, assignors.)
- Empire Art Metal Co. (See Cornell, Andrew J., assignor.)
- Empire Cream Separator Company. (See Warnock, Robert, assignor.)
- Empire Machine Company. (See Chamberlin, Benjamin D., assignor.)
- Empire Rubber & Tire Company. (See Rich, Marion J., Jr., assignor.)
- Empis, Henri C., Paris, France. Apparatus for vaporizing hydrocarbons. No. 1,309,514; July 8; v. 264; p. 306.
- Emrich, J. O., Pittsburgh, Pa. Metallic frame. No. 1,321,610; Nov. 11; v. 268; p. 300.
- Ena, Maria K., Los Angeles, Calif. Bed-pan. No. 1,297,813; Mar. 18; v. 260; p. 507.
- Enameled Metals Company. (See McIlroy, Peter, assignor.)
- Enck, Herbert E., assignor to Improved Manufacturing Company, Ashland, Ohio. Toy printing-wheel. No. 1,298,918; Apr. 1; v. 261; p. 69.
- End, George E., Svensen, Oreg. Vehicle. No. 1,308,232; July 1; v. 264; p. 41.



- Endert Traffic Signal Company. (See Smith, Thomas E., assignor.)
- Endless Belt Corporation. (See Grupe, William F., assignor.)
- Endorf, Charles, Jr., assignor to The Lindstrom, Smith Company, Chicago, Ill. Variable-speed motor. No. 1,301,922; Apr. 29; v. 261; p. 830.
- Endorf, Charles, Jr., assignor to Lindstrom, Smith Company, Chicago, Ill. Self-contained motor and speed control for vibrators. No. 1,323,622; Dec. 2; v. 269; p. 75.
- Endow, Junpei. (See Abe, Hikokichi, assignor.)
- Endres, Lawrence M., Cross Plains, Wis. Tool-rest. No. 1,318,138; Oct. 7; v. 267; p. 91.
- Endreson, John, Brooklyn, N. Y. Pocket-filter. No. 1,292,737; Jan. 28; v. 258; p. 730.
- Endreson, John, Brooklyn, N. Y. Leak-stopper. No. 1,303,049; May 6; v. 262; p. 108.
- Enquist, Erik W., New York, N. Y. Projectile. No. 1,316,148; Sept. 16; v. 266; p. 330.
- Engel, Abraham, New York, N. Y. Multiple mixing-valve. No. 1,313,590; Aug. 19; v. 265; p. 379.
- Engel, Arthur, Chicago, Ill. Case-holder for books. No. 1,304,668; May 27; v. 262; p. 514.
- Engel, Carl, assignor of one-half to E. Johnson, Seattle, Wash. Internal-combustion engine. No. 1,302,143; Apr. 29; v. 261; p. 871.
- Engel, Karl, Arlington, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe and making shoes. No. 1,301,113; Apr. 22; v. 261; p. 642.
- Engel, Karl, Arlington, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last. No. 1,306,108; June 10; v. 263; p. 195.
- Engel, Karl, Arlington, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Producing soles for shoes. No. 1,313,887; Aug. 26; v. 265; p. 468.
- Engel, Louis, Cleveland, Ohio. Surfacing-machine for bowling-alleys. No. 1,291,812; Jan. 21; v. 258; p. 483.
- Engel, Louis, Cleveland, Ohio. Surfacing-machine for bowling-alleys. No. 1,303,643; May 13; v. 262; p. 245.
- Engelbach, Augustus L., Denver, Colo. Slicing-machine for vegetables and fruits. No. 1,323,073; Nov. 25; v. 268; p. 677.
- Engelberg, Arthur, Oakland, Calif. Telephone. No. 1,299,154; Apr. 1; v. 261; p. 122.
- Engelbrekt, Gustaf, Superior, Wis. Heater element for heat-engine plants and expansion-fluid motors. No. 1,297,814; Mar. 18; v. 260; p. 507.
- Engelbrekt, Gustaf, Superior, Wis. Compressor mechanism. No. 1,319,213; Oct. 21; v. 267; p. 383.
- Engelhardt, Charles. (See Newcomb, Ralph W., assignor.)
- Engelhardt, William A., Oakley, Kans. Draft connection for tractors. No. 1,291,813; Jan. 21; v. 258; p. 483.
- Engelson, Albert K., Canby, Minn. Draft-equalizer. No. 1,311,058; July 22; v. 264; p. 658.
- Engineer Company, The. (See McLean, Embury, assignor.)
- Engineering Products Corporation. (See Burlingham, William, assignor.)
- England, George T. (See Templeton and England.)
- England, William A. (See Hauge and England.)
- Englander, Benjamin B., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Spring-mattress. No. 1,297,552; Mar. 18; v. 260; p. 451.
- Englander, Benjamin B., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Spring-mattress. No. 1,325,935; Dec. 23; v. 269; p. 632.
- Englander Spring Bed Company. (See Englander, Benjamin B., assignor.)
- Englander Spring Bed Company. (See Kreuzkamp, August J., assignor.)
- Englar, Benjamin F., Baltimore, Md. Ice-cream dipper. No. 1,325,082; Dec. 16; v. 269; p. 457.
- Englehart, Henry, Elmer, N. J. Pool-table. No. 1,297,815; Mar. 18; v. 260; p. 507.
- Engleman, Christian, Vancouver, Wash. Mechanical billiard-player. No. 1,308,405; July 1; v. 264; p. 73.
- Engleman, Christian, Vancouver, Wash. Sanitary water-closet seat. No. 1,308,406; July 1; v. 264; p. 73.
- Engler, William F., and J. M. Ruedy, Los Angeles, Calif. Railway-crossing signal. No. 1,304,035; May 20; v. 262; p. 356.
- Engleson, John E., Kristinehamn, Sweden. Centrifugal governor. No. 1,313,175; Aug. 12; v. 265; p. 284.
- English, Frank, Fresno, Cal. Lift-pump. No. 1,294,069; Feb. 11; v. 259; p. 286.
- English, Frank, Fresno, Calif. Shaft oiler or lubricator. No. 1,310,611; July 22; v. 264; p. 576.
- English, Fred S., New London, Conn. Inking device for flat-bed printing-presses. No. 1,301,923; Apr. 29; v. 261; p. 830.
- English, Fred S., New London, Conn. Cylinder-tripping device for printing-presses. No. 1,324,957; Dec. 16; v. 269; p. 434.
- English, James M., Alliance, Ohio. Stopper for bottom-pour ladles. No. 1,303,548; May 13; v. 262; p. 228.
- English & Mersick Company, The. (See Wheeler, Gardner E., assignor.)
- English, Sylvester H., Burk, Idaho. Frying-pan cover. No. 1,295,716; Feb. 25; v. 259; p. 726.
- Englot, Felix, Lemberg, Saskatchewan, Canada. Rail-joint. No. 1,309,356; July 8; v. 264; p. 277.
- Englund, Axel H., and W. S. Mayer, assignors to Electric Service Supplies Company, Philadelphia, Pa. Lamp. No. 1,318,062; Oct. 7; v. 267; p. 76.
- Englund, Edwin H. L., Muskegon, Mich. Toy gun. No. 1,301,669; Apr. 22; v. 261; p. 750.
- Englund, Ernst E., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Planter. No. 1,313,475; Aug. 19; v. 265; p. 356.
- Englund, Ernst E., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Planter. No. 1,314,054; Aug. 26; v. 265; p. 500.
- Engsberg, Harold H. (See Hamilton, Henry M., assignor.)
- Engstrom, Fredrick, Wallace, Idaho. Drift-bolt puller. No. 1,304,669; May 27; v. 262; p. 515.
- Engstrom, George A., Topeka, Kans. Electric welding-tool. No. 1,295,457; Feb. 25; v. 259; p. 665.
- Engstrom, Thor, Pittsburgh, Pa. Eraser and eraser-holder. No. 1,301,413; Apr. 22; v. 261; p. 702.
- Enloe, David E., River Falls, Wis. Leveler. No. 1,304,952; May 27; v. 262; p. 567.
- Ennis, Charles E., assignor to Walls Frogless Switch and Manufacturing Company, Kansas City, Mo. Swing-rail switch-frog. No. 1,309,023; July 8; v. 264; p. 216.
- Ennis, Edward, North Cambridge, Mass. Waste-fitting for fountain-cuspidors. No. 1,299,441; Apr. 8; v. 261; p. 216.
- Ennis, Tillie A., Los Angeles, Cal. Collar support and fastener. No. 1,296,783; Mar. 11; v. 260; p. 254.
- Enochs, C. D. (See Mathias, Berton, M., assignor.)
- Enochs, Claude D. (See Cornwall, Alfred E.)
- Enochs, Claude D., East Shore Park, Minn. Animal-oiler. No. 1,320,326; Oct. 28; v. 267; p. 615.
- Enos, Frank, Jr. (See Walker and Enos.)
- Enrico, Andrew and J. Chisholm, Minn. Railway-tie and rail-fastener. No. 1,299,442; Apr. 8; v. 261; p. 216.
- Enrico, John. (See Enrico, Andrew and J.)
- Enright, Bernard, Allentown, Pa. Refractory material and making the same. No. 1,319,056; Oct. 21; v. 267; p. 353.
- Enright, John W., New Orleans, La. Stationary chemical-mixing fire-extinguisher system. No. 1,311,059; July 22; v. 264; p. 659.
- Enright, John W., New Orleans, La. Stationary chemical-mixing fire-extinguisher system. No. 1,319,518; Oct. 21; v. 267; p. 441.
- Ensign Carburetor Co. (See Ensign, Orville H., assignor.)
- Ensign, Emory S., assignor to R. Ensign, East Orange, N. J. Window-lock. (Reissue.) No. 1,462,3; Apr. 1; v. 261; p. 181.
- Ensign, Emory S., assignor to R. Ensign, East Orange, N. J. Window-lock. No. 1,311,597; July 29; v. 264; p. 792.
- Ensign, Orville H., Pasadena, assignor to Ensign Carburetor Co., Los Angeles, Calif. Carburetor. No. 1,316,149; Sept. 16; v. 266; p. 330.
- Ensign, Rose. (See Ensign, Emory S., assignor.) (Reissue.)
- Ensign, Russell, Storm Lake, Iowa. Extension hay-loader. No. 1,303,644; May 13; v. 262; p. 245.
- Enslin, Herbert B., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for marking shoe-uppers. No. 1,313,943; Aug. 23; v. 265; p. 179.
- Ensten, Louis H., Cleveland, Ohio. Knitted cap. No. 1,313,080; Aug. 12; v. 265; p. 266.
- Ensten, Louis H., Cleveland, Ohio. Combined cap-scarf. No. 1,316,778; Sept. 23; v. 266; p. 497.
- Ensteness, Albert J., Terry, Mont., assignor of one-half to S. W. Loomis, Sioux Falls, S. D. Tool. No. 1,314,072; Aug. 26; v. 265; p. 503.
- Enström, Johan G., Gottenborg, Sweden. Seal-lock for boxes. No. 1,324,111; Dec. 9; v. 269; p. 211.
- Enterprise Foundry Company. (See Loughheed, Victor, assignor.)
- Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
- Entz, Justus B., Cleveland, Ohio. Vehicle control. No. 1,307,810; June 24; v. 263; p. 575.
- Epp, Ida C., San Francisco, Calif. Brassière for nursing mothers. No. 1,300,212; Apr. 8; v. 261; p. 388.
- Eppelsheimer, Daniel, Middletown, Ohio. Metallurgical mass. No. 1,290,143; Jan. 7; v. 258; p. 32.
- Epperson, Edward H. (See Rice, Frank S., assignor.)
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welt grooving and beveling machine. No. 1,309,567; July 8; v. 264; p. 317.
- Eppler, Andrew, Lynn, and W. V. Neal, Boston, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe-turning machine. No. 1,307,811; June 24; v. 263; p. 575.
- Eppler, Martha, New York, N. Y. Bath-tub attachment. No. 1,301,114; Apr. 22; v. 261; p. 643.
- Eppey, Charles S., assignor to Self Acting Switch Co., York, Pa. Motor-driven mechanism for self-acting switches. No. 1,291,451; Jan. 14; v. 258; p. 367.



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- Epps, Frank A., Philadelphia, Pa., assignor, by mesne assignments, to Foamite Fireproof Company, New York, N. Y. Apparatus for extinguishing fire. No. 1,296,937; Mar. 11; v. 260; p. 290.
- Epriht, Alonzo W., Altoona, Pa. Railway track-scale. No. 1,296,274; Mar. 4; v. 260; p. 105.
- Epstein, Joseph, Brooklyn, N. Y. Metallic spring-mattress. No. 1,307,543; June 24; v. 263; p. 527.
- Epstein, Mosheh, New York, N. Y. Support for presser-irons. No. 1,300,939; Apr. 15; v. 261; p. 568.
- Equilibrator Company. (See Fuerth, William G., assignor.)
- Erb, Arthur A. (See Gaines and Erb.)
- Erben, Philip V., Philadelphia, Pa. Puzzle. No. 1,299,695; Apr. 8; v. 261; p. 274.
- Erbes, Louis C., St. Paul, Minn. Tractor. No. 1,305,448; June 3; v. 263; p. 41.
- Erdey, Joseph, New York, N. Y. Trick cigarette-case. No. 1,293,062; Feb. 4; v. 259; p. 21.
- Erdie, John, Trenton, N. J. Direction-signal. No. 1,307,964; June 24; v. 263; p. 604.
- Erdle, Reiner W., Weehawken, N. J. Chain-pendant. No. 1,304,170; May 20; v. 262; p. 380.
- Erdmann, Frederick C., North Fond du Lac, Wis. Greasing device. No. 1,300,145; Apr. 8; v. 261; p. 373.
- Erdmann, Oscar A., Detroit, Mich. Traffic-signal. No. 1,307,544; June 24; v. 263; p. 527.
- Erdoes, Julius. (See Hartman and Erdoes.)
- Erfmeyer, Chester W., Milwaukee, Wis. Door-lock plate. No. 1,295,458; Feb. 25; v. 259; p. 665.
- Erhart, Julius P., Quantico, Va. Dirigible light for automobiles. No. 1,324,652; Dec. 9; v. 269; p. 315.
- Erickson, Albert, Chicago, Ill., assignor to Splittorf Electrical Company, Newark, N. J. Ignition device. No. 1,318,197; Oct. 7; v. 267; p. 103.
- Erickson, Albert, Chicago, Ill., assignor to Splittorf Electrical Company, Newark, N. J. Ignition device. No. 1,318,198; Oct. 7; v. 267; p. 103.
- Erickson, Andrew C., Los Angeles, Calif. Shoe-polishing machine. No. 1,322,234; Nov. 18; v. 268; p. 468.
- Erickson, Andrew E., et al. (See Pfeiffer, Frank, assignor.)
- Erickson, Axel F., assignor to Allsteelquip Company, Aurora, Ill. Jamb-plate. No. 1,321,514; Nov. 11; v. 268; p. 282.
- Erickson, Carl E., Menomonie, Wis. Variable-speed transmission. No. 1,318,199; Oct. 7; v. 267; p. 103.
- Erickson, Charles A., Oswego, N. Y. Quick-action vise. No. 1,298,919; Apr. 1; v. 261; p. 69.
- Erickson, Charles J., assignor to Automatic Electric Company, Chicago, Ill. Electromagnetic signaling device. No. 1,293,387; Feb. 4; v. 259; p. 96.
- Erickson, Charles J., assignor to Automatic Electric Company, Chicago, Ill. Circuit for pole-changers. No. 1,299,155; Apr. 1; v. 261; p. 123.
- Erickson, David S. (See Anderson, Fred E., assignor.)
- Erickson, Edward, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-turning machine. No. 1,310,008; July 15; v. 264; p. 435.
- Erickson, Edward, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-beading machine. No. 1,315,218; Sept. 9; v. 266; p. 146.
- Erickson, Edward, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Operator's chair. No. 1,318,439; Oct. 14; v. 267; p. 210.
- Erickson, Edward S., De Lamere, N. D. Cord-holder. No. 1,295,717; Feb. 25; v. 259; p. 726.
- Erickson, Edwin T., et al. (See Silbernagel, Fred, assignor.)
- Erickson, Frederic W., New York, N. Y. Marine structure. No. 1,293,063; Feb. 4; v. 259; p. 22.
- Erickson, Fritz, Philipsburg, Mont. Stock-watering apparatus. No. 1,322,682; Nov. 25; v. 268; p. 604.
- Erickson, John, Petersburg, Va. Grab-hook. No. 1,295,018; Feb. 18; v. 259; p. 541.
- Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,312,688; Aug. 12; v. 265; p. 188.
- Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,312,965; Aug. 12; v. 265; p. 243.
- Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,316,704; Sept. 23; v. 266; p. 484.
- Erickson, John E., Minneapolis, assignor to Ever-Safe Auto-Lock Company, St. Paul, Minn. Automobile lock and burglar-alarm. No. 1,324,499; Dec. 9; v. 269; p. 286.
- Erickson, Matthew A., Naugatuck, Conn. Automatic sash-lock. No. 1,320,461; Nov. 4; v. 268; p. 19.
- Erickson, Oscar. (See Edlund, Mandy, assignor.)
- Erickson, Otto H., Minneapolis, Minn. Artificial leg. No. 1,302,336; Apr. 29; v. 261; p. 908.
- Erickson, Otto H., Minneapolis, Minn. Artificial leg. No. 1,303,645; May 13; v. 262; p. 246.
- Erickson, Theodore, Midvale, Utah. Weed-cutting attachment for cultivators. No. 1,319,382; Oct. 21; v. 267; p. 415.
- Erickson, William A., Milaca, Minn. Can-washing apparatus. No. 1,303,186; May 6; v. 262; p. 135.
- Ericson, Carl L., Longmeadow, assignor to American Saw & Manufacturing Company, Springfield, Mass. Machine for hardening hacksaws. No. 1,302,337; Apr. 29; v. 261; p. 908.
- Ericsson, Albert, Oakland, Calif. Music-leaf turner. No. 1,308,348; July 1; v. 264; p. 62.
- Erikson, John A., Polytechnic, Mont. Wire-cutting attachment for rifles. No. 1,300,940; Apr. 15; v. 261; p. 568.
- Eriksson, Erik A., Stockholm, Sweden. Carriage or saddle guide for lathes. No. 1,315,917; Sept. 9; v. 266; p. 273.
- Eriksson, Martin, Djursholms-Osby, Sweden. Brickwall and building of same. No. 1,317,782; Oct. 7; v. 267; p. 23.
- Erikstrup, Christen K., Minneapolis, Minn. Gas-burner. No. 1,291,814; Jan. 21; v. 258; p. 483.
- Erith, Charles, London, England. Mechanical underfeed stoker. No. 1,298,189; Mar. 25; v. 260; p. 613.
- Erkelenz, Henry H. (See Young, William A., assignor.)
- Erlandson, Carl A., San Francisco, Cal. Machine for setting saws. No. 1,294,782; Feb. 18; v. 259; p. 488.
- Erlanger, Charles, Baltimore, Md., assignor to The B. V. D. Company, New York, N. Y. Undergarment. No. 1,293,064; Feb. 4; v. 259; p. 22.
- Erlinger, George, assignor of one-half to A. O. Trostel, Milwaukee, Wis. Firing apparatus. No. 1,308,233; July 1; v. 264; p. 42.
- Ermold, Edward, New York, N. Y. Bottle-labeling machine. No. 1,304,319; May 20; v. 262; p. 409.
- Ermold, Edward, New York, N. Y. Bottle-labeling machine. No. 1,308,280; July 1; v. 264; p. 50.
- Ermold, George, New York, N. Y. Surgical instrument. No. 1,299,928; Apr. 8; v. 261; p. 326.
- Ernest, George T., and J. Barry, Washington, D. C. Trundle toy. No. 1,306,755; June 17; v. 263; p. 350.
- Ernsbarger, George H. (See Tolles and Ernsbarger.)
- Ernst, Emil, London, England. Artificial leg. No. 1,302,338; Apr. 29; v. 261; p. 908.
- Ernst, Lyman P., Des Moines, Iowa. Traffic-signal control. No. 1,317,009; Sept. 23; v. 266; p. 539.
- Ernst, Henry J., Deerwood, Minn. Cooling-fan for motors. No. 1,317,080; Sept. 23; v. 266; p. 553.
- Ertson, Martin A., College Place, Wash. Lubricator. No. 1,300,941; Apr. 15; v. 261; p. 569.
- Eriett, Charles, New York, N. Y., assignor to Public Service Cup Company, Brooklyn, N. Y. Package. No. 1,314,134; Aug. 26; v. 265; p. 515.
- Erickson, John V., Scranton, Pa. Method of and apparatus for making phonograph-records. No. 1,307,812; June 24; v. 263; p. 576.
- Errington, George A., assignor of sixty per cent. to W. E. Waterman and twenty per cent. to M. E. Waterman, Buffalo, N. Y. Check-writing machine. No. 1,308,149; July 1; v. 264; p. 26.
- Ershler, Louis H., and M. Hendler, Hudson, N. Y. Bed-spring. No. 1,321,814; Nov. 18; v. 268; p. 389.
- Ersin, Harold O., Anoka, Minn. Bed-spring fabric. No. 1,294,070; Feb. 11; v. 259; p. 286.
- Erskine, Clyde, assignor to H. H. Walsh, Chicago, Ill. Advertising projecting device. No. 1,290,947; Jan. 14; v. 258; p. 251.
- Erskine, James, Flint, assignor to General Motors Corporation, Detroit, Mich. Gage. No. 1,295,718; Feb. 25; v. 259; p. 726.
- Erslev, Knud, Nijmegen, Netherlands. Manufacture of artificial milk. No. 1,297,668; Mar. 18; v. 260; p. 475.
- Ertel, Henry C., Fort Wayne, Ind. Automatic cut-out for rain-spouts. No. 1,312,169; Aug. 5; v. 265; p. 60.
- Erter, David, Springfield, Ohio. Ground-breaking device. No. 1,319,951; Oct. 28; v. 267; p. 546.
- Ervin, Charles W., and W. E. MacGuire, Anaconda, Mont. Mixer. No. 1,312,240; Aug. 5; v. 265; p. 72.
- Ervin, Edwin G. (See Hedrick and Ervin.)
- Ervin, John E., assignor to Deere & Company, Moline, Ill. Sand handling and cutting apparatus. No. 1,323,461; Dec. 2; v. 269; p. 45.
- Erway, Charles H., Turlock, Calif. Planter-shoe. No. 1,318,365; Oct. 14; v. 267; p. 195.
- Erwin, Mercer, Talmo, assignor of one-half to R. N. Major, Gainesville, Ga. Rail-joint. No. 1,300,146; Apr. 8; v. 261; p. 374.
- Erwin, Raymond W., Fremont, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electric battery. No. 1,295,459; Feb. 25; v. 259; p. 666.
- Erwin, Robert W. (See Goltra, Maffitt, Dana, and Erwin.)
- Erwin, Robert W., Waukon, Iowa, assignor, by mesne assignments, to Mississippi Valley Iron Company, Wilmington, Del. Apparatus for treating ores preparatory to magnetic separation. No. 1,295,719; Feb. 25; v. 259; p. 727.
- Esa, Friedrich, Fairview, Mont. Boring-tool. No. 1,316,435; Sept. 16; v. 266; p. 384.
- Esa, Friedrich, Fairfield, Mont. Shutter opening and closing mechanism. No. 1,323,848; Dec. 2; v. 269; p. 117.



- Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic control of welding arcs. No. 1,320,127; Oct. 28; v. 267; p. 578.
- Eschinger, Edward A., Philadelphia, Pa. Talking-machine. No. 1,295,460; Feb. 25; v. 259; p. 666.
- Eschinger, Edward A., assignor of one-half to J. G. Clemmer, Philadelphia, Pa. Talking-machine. No. 1,301,786; Apr. 22; v. 261; p. 774.
- Eschinger, Edward A., assignor of one-half to J. G. Clemmer, Philadelphia, Pa. Talking-machine. No. 1,301,787; Apr. 22; v. 261; p. 775.
- Escobar, Francisco G., Rosario de Santa Fé, Argentina. Apparatus for the photographic reproduction on paper by means of electric light. No. 1,320,849; Nov. 4; v. 268; p. 92.
- Esda Manufacturing Company. (See Hamilton, Paul H., assignor.)
- Eshelby, William, Calgary, Alberta, Canada. Anti-burst-tube for lining water-pipes. No. 1,304,036; May 20; v. 262; p. 356.
- Eshenbaugh, Alvin J., Shamrock, Okla. Attachment for well-drills. No. 1,305,703; June 3; v. 263; p. 89.
- Eskelin, Eero, Worcester, Mass. Fire-operated stock-releasing device. No. 1,310,612; July 22; v. 264; p. 576.
- Eskesen, Eckardt V., New York, N. Y. Mold for dummy aerial bombs. No. 1,296,639; Mar. 11; v. 260; p. 220.
- Eskilson, Sven A., assignor to Aktiebolaget Salenius Verkstäder, Stockholm, Sweden. Neck-bearing. No. 1,310,794; July 22; v. 264; p. 610.
- Esnault-Pelterie, Robert, Boulogne-sur-Seine, France. Internal-combustion turbine-engine. No. 1,312,899; Aug. 12; v. 265; p. 229.
- Esnault-Pelterie, Robert, Paris, France. Piston-packing. No. 1,292,392; Jan. 21; v. 258; p. 625.
- Espeand, Franklin A., Oakes, N. D. Mopping-machine. No. 1,297,816; Mar. 18; v. 260; p. 507.
- Espenhahn, Edward V., Port Pirie, South Australia, Australia. Treatment of gases containing sulfur dioxide. No. 1,315,183; Sept. 2; v. 266; p. 130.
- Espenhahn, Edward V., Brighton, Victoria, Australia. Treatment of gases obtained from coal and other carbonaceous fuel. No. 1,315,219; Sept. 9; v. 266; p. 146.
- Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Radiofrequency interference-balance. No. 1,309,400; July 8; v. 264; p. 285.
- Espevon, J. F. (See Ostrander, Lewis F., assignor.)
- Espersen, Christian. (See Nelson and Espersen.)
- Esping, Conrad, Moline, Ill., assignor to Moline Plow Company. Wheeled plow. No. 1,302,339; Apr. 29; v. 261; p. 908.
- Esping, Conrad, Moline, Ill., assignor to Moline Plow Company. Beet-pulling machine. No. 1,309,617; July 15; v. 264; p. 363.
- Esping, Conrad, Moline, Ill., assignor to Moline Plow Company. Beet-pulling machine. No. 1,323,683; Dec. 2; v. 269; p. 86.
- Esseling, Cornelis J., Heerlen, Netherlands. Drill. No. 1,306,674; June 10; v. 263; p. 302.
- Esselmann, Louis H., St. Louis, Mo. Batter-feeder for pastry-form machines. No. 1,303,218; May 6; v. 262; p. 141.
- Essen, Eric E., Brooklyn, N. Y. Valve-lifter. No. 1,296,784; Mar. 11; v. 260; p. 254.
- Essex Laboratories. (See Darling, Elton R., assignor.)
- Essex Motors. (See Behn, Guido G., assignor.)
- Essex Motors. (See Fekete, Stephen I., assignor.)
- Essex Motors. (See Fekete and Baits, assignors.)
- Essex Specialty Co. (See Gehrig, William F., assignor.)
- Essig, Lester C., Kansas City, Mo. Beauty-mark. No. 1,300,592; Apr. 15; v. 261; p. 495.
- Esta Company, The. (See Shawvan, Walter S., assignor.)
- Estabrook, Frank E., deceased, and H. E. Estabrook, Newburgh, N. Y.; J. F. Estabrook, executrix. Automatic pin-setting machine. No. 1,292,738; Jan. 28; v. 258; p. 730.
- Estabrook, Harry E. (See Estabrook, Frank E. and H. E.)
- Estabrook, Jessie F., executrix. (See Estabrook, Frank E. and H. E.)
- Estabrook, William H. (See Verdugo, Thomas, assignor.)
- Estate Stove Company, The. (See Kahn, Bertrand E., assignor.)
- Estate Stove Company. (See Kahn and Hake, assignors.)
- Estberg, William T., Camden, N. J. Automobile-lock. No. 1,305,786; June 3; v. 263; p. 105.
- Estep, Waldron S., Cleveland, Okla., assignor of one-half to R. V. Henry, Augusta, Kans. Centrifugal separator. No. 1,307,000; June 17; v. 263; p. 395.
- Esterhay, Frank, Somerville, N. J. Ratchet-wrench. No. 1,292,281; Jan. 21; v. 258; p. 599.
- Esterline, Albert, et al. (See Cochran, William R., assignor.)
- Esterline & Angus. (See Angus, Donald J., assignor.)
- Estes, Clay H., Cincinnati, Ohio. Lantern. No. 1,321,192; Nov. 11; v. 268; p. 221.
- Estes, Webster C., assignor to E. B. Estes & Sons, New York, N. Y. Receptacle. No. 1,313,679; Aug. 19; v. 265; p. 394.
- Estes, William B., Sr., assignor of one-fourth to A. Lyons, Newark, N. J. Tire-protectors and antiskid device. No. 1,309,515; July 8; v. 264; p. 306.
- Estey Organ Company. (See Haskell, William E., assignor.)
- Esther, Ellis B., Lebanon, Mo. Spring-tire. No. 1,306,109; June 10; v. 263; p. 196.
- Estoppey, Georges, Orange, N. J., assignor to Musa, Estoppey & Co. Inc., New York, N. Y. Sighting apparatus. No. 1,296,640; Mar. 11; v. 260; p. 221.
- Estoppey, Georges, Orange, N. J., assignor to Musa, Estoppey & Co., Inc., New York. Speed-indicator. No. 1,296,641; Mar. 11; v. 260; p. 221.
- Estoppey, Georges, Orange, N. J., assignor to Musa, Estoppey & Co., Inc., New York, N. Y. Sighting apparatus. No. 1,296,642; Mar. 11; v. 260; p. 221.
- Estrada, Rafael, New York, N. Y. Roof construction. No. 1,321,426; Nov. 11; v. 268; p. 266.
- Etablissements Continsouza, Société Anonyme. (See Figour, Maurice, assignor.)
- Etablissements De Dion Bouton, Société Anonyme. (See Bouton, Georges, assignor.)
- Etablissements De Dion Bouton, Société Anonyme. (See Gallet, Henri, assignor.)
- Etchells, Harry. (See Graves and Etchells.)
- Etchells, James, and C. H. Stedman, assignors to Vickers Limited, Westminster, London, England. Switch for controlling electric motors. No. 1,318,737; Oct. 14; v. 267; p. 267.
- Ethier, Victor, Webster, Mass. Snow-removing attachment for automobiles. No. 1,322,296; Nov. 18; v. 268; p. 479.
- Ethridge, Frederick M., Boston, assignor of one-half to B. E. Stewart, Somerville, Mass. Display-rack. No. 1,300,942; Apr. 15; v. 261; p. 569.
- Etheridge, Theodore S., Grand Rapids, Mich. Book-covering machine. No. 1,297,131; Mar. 11; v. 260; p. 332.
- Etter, Robert L., Pawnee City, Nebr. Stump-puller. No. 1,297,817; Mar. 18; v. 260; p. 508.
- Ettershank, Roy, Vancouver, British Columbia, Canada. Fishing-bait. No. 1,303,467; May 13; v. 262; p. 213.
- Eubank, John C., Campbellsville, Ky. Scythe-coupling. No. 1,316,289; Sept. 16; v. 266; p. 356.
- Eubank, Judson C., Chicago, Ill. Pneumatic tire. No. 1,311,883; Aug. 5; v. 265; p. 6.
- Eubanks, Sayers D., assignor to W. B. Bruton and A. R. Howard, Concord, N. C. Lug-stick for looms. No. 1,300,147; Apr. 8; v. 261; p. 374.
- Eue, Fredrick W., St. Paul, Minn. Plant-support. No. 1,324,237; Dec. 9; v. 269; p. 235.
- Eureka Air Compressor Co. (See Loppacker, Albert, assignor.)
- Eustice, Alfred L., assignor to Economy Fuse & Manufacturing Company, Chicago, Ill. Safety-fuse. No. 1,294,432; Feb. 18; v. 259; p. 407.
- Eustis, Robert I. (See Hart and Eustis.)
- Euth, John E., Bromley, Ky. Collar. No. 1,316,882; Sept. 23; v. 266; p. 515.
- Evan L. Reed Manufacturing Company. (See Kroff, Leonard D., assignor.)
- Evangeline Iron Works. (See Cameron, Jarrett L., assignor.)
- Evangelist, Dominick, assignor of one-half to T. Costanzo, New York, N. Y. Safety device for elevators. No. 1,301,924; Apr. 29; v. 261; p. 830.
- Evangelista, Dominick, R. Dugo, and A. Cignarella, New York, N. Y. Safety device for passenger and freight elevators. No. 1,291,815; Jan. 21; v. 258; p. 483.
- Evangelista, Domenico, New York, assignor of one-fifth to E. Petrillo, one-fifth to E. Carideo, one-fifth to A. Marano, Mount Vernon, and one-fifth to F. A. Bellucci, Corona, N. Y. Apparatus for stopping trams. No. 1,295,462; Feb. 25; v. 259; p. 666.
- Evans, Adele K., executrix. (See Evans, Henry R.)
- Evans, Alexander L., Fort Wayne, Ind. Bumper. No. 1,325,467; Dec. 16; v. 269; p. 528.
- Evans, Charles E., Weed, Calif. Dowell-wedging machine. No. 1,317,159; Sept. 30; v. 266; p. 604.
- Evans, Charles E., Weed, Calif. Binding and tying machine. No. 1,324,039; Dec. 9; v. 269; p. 198.
- Evans, Charles E., Seattle, Wash. Bundling, binding, and tying machine. No. 1,324,238; Dec. 9; v. 269; p. 235.
- Evans, Charles E., Seattle, Wash. Bundle binding and tying machine. No. 1,324,239; Dec. 9; v. 269; p. 236.
- Evans, Charles G., Sault Ste. Marie, Ontario, Canada. Supplemental wheel-rim attachment. No. 1,294,887; Feb. 18; v. 259; p. 513.
- Evans, Clarence A., Chester, Pa. Educational device. No. 1,305,449; June 3; v. 263; p. 41.
- Evans, Clarence J., Cleveland, Ohio. Mop-wringer. No. 1,315,824; Sept. 9; v. 266; p. 255.
- Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,305,268; June 3; v. 263; p. 8.
- Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetic blow-out device. No. 1,313,176; Aug. 12; v. 265; p. 284.
- Evans, Clarence T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Driving mechanism. No. 1,325,010; Dec. 16; v. 269; p. 443.



## Alphabetical list of patentees—Continued.

- Evans, Cleve E., near Cedar Rapids, assignor of one-half to G. T. Hedges, Cedar Rapids, Iowa. Garden-seed planter. No. 1,294,641; Feb. 18; v. 259; p. 455.
- Evans, Cornelius T., Americus, Kans. Means for preserving. No. 1,303,549; May 13; v. 262; p. 228.
- Evans, Daniel, *et al.* (See Chilcott, William R., assignor.)
- Evans, Daniel L., and F. A. Philippi, Pottstown, Pa., assignors to Sanitary Manufacturing Corporation, Wilmington, Del. Cooler. No. 1,313,624; Aug. 19; v. 265; p. 385.
- Evans Dollar Pen Company, The. (See Fitzpatrick, William T., assignor.)
- Evans Dollar Pen Company. (See Fowler, Harold B., assignor.)
- Evans, Edward L., Jewett, Tex. Auto-carrier. No. 1,309,470; July 8; v. 264; p. 298.
- Evans, Edwin H., Laytonstone, England. Double-jointed or universal-jointed box-spanner. No. 1,300,148; Apr. 8; v. 261; p. 374.
- Evans, Edwin R., Detroit, Mich. Differential mechanism. No. 1,317,281; Sept. 30; v. 266; p. 627.
- Evans, Edwin R., assignor to R. F. Everett, Detroit, Mich. Tractor-chassis. No. 1,323,849; Dec. 2; v. 269; p. 117.
- Evans Engine Company. (See Evans, James M., assignor.)
- Evans, Everett M. (See Glafcke, Walter G., assignor.)
- Evans, Francis J., Burbank, Wash. Pump. No. 1,322,552; Nov. 25; v. 268; p. 580.
- Evans, Frank R., Zanesville, Ohio. Gauntlet-cuff and producing the same. No. 1,295,720; Feb. 25; v. 259; p. 727.
- Evans, Frank R., Zanesville, Ohio. Machine for cutting gauntlet-cuff or other blanks of fabric, paper, or other material. No. 1,302,340; Apr. 29; v. 261; p. 908.
- Evans, Fred, assignor to H. E. Stevens, Jr., New York, N. Y. Sealing-tag. No. 1,313,888; Aug. 26; v. 265; p. 468.
- Evans, Fred, Summit, N. J., assignor to L. E. Field, Brooklyn, N. Y. Milk-bottle holder. No. 1,324,444; Dec. 9; v. 269; p. 276.
- Evans, Fred C., Ithaca, N. Y. Charge-mixing device. No. 1,298,315; Mar. 25; v. 260; p. 639.
- Evans Fuel Saving Company. (See Evans, Joseph P., assignor.)
- Evans, George, Puyallup, Wash. Combined embalming table and tank. No. 1,315,712; Sept. 9; v. 266; p. 234.
- Evans, Harry E., Buffalo, N. Y. Primary electric cell. No. 1,310,695; July 22; v. 264; p. 591.
- Evans, Harry E., Buffalo, N. Y. Electric cell. No. 1,322,486; Nov. 18; v. 268; p. 516.
- Evans, Henry R., deceased, London, England; A. K. Evans, executrix. Motion-picture apparatus. No. 1,304,466; May 20; v. 262; p. 438.
- Evans, Henry R., deceased, New York, N. Y.; A. K. Evans, executrix. Motion-picture apparatus. No. 1,308,984; July 8; v. 264; p. 208.
- Evans, Henry R., deceased, London, England; A. K. Evans, executrix. Method of and apparatus for feeding motion-picture films. No. 1,309,471; July 8; v. 264; p. 298.
- Evans, James D., Montgomery, Ala. Suspenders. No. 1,305,530; June 3; v. 263; p. 56.
- Evans, James E., *et al.* (See Rumburg, James P., assignor.)
- Evans, James E., Los Angeles, Cal. Gas generator and burner. No. 1,292,739; Jan. 28; v. 258; p. 730.
- Evans, James E., Los Angeles, Calif. Poultry-perch. No. 1,305,450; June 3; v. 263; p. 42.
- Evans, James E., assignor of one-half to F. W. Foster, Artesia, Cal. Circuit-breaker. No. 1,293,388; Feb. 4; v. 259; p. 96.
- Evans, James M., deceased; L. M. Evans, administratrix, Westport, Conn., assignor to Evans Engine Company, Incorporated. Internal-combustion engine. No. 1,305,451; June 3; v. 263; p. 42.
- Evans, James S. (See Knajer, Emerson C., assignor.)
- Evans, Jane B., Philadelphia, Pa. Preparing filling material. No. 1,292,282; Jan. 21; v. 258; p. 599.
- Evans, John, Brooklyn, N. Y. Wrench. No. 1,290,530; Jan. 7; v. 258; p. 125.
- Evans, John H., Bridgeport, Pa. Toy. No. 1,299,696; Apr. 8; v. 261; p. 274.
- Evans, John S., assignor to The Canadian Fish Hook Manufacturing Co., Victoria, British Columbia, Canada. Fishing-hook. No. 1,290,144; Jan. 7; v. 258; p. 32.
- Evans, John S., assignor to The Canadian Fish Hook Manufacturing Co., Victoria, British Columbia, Canada. Fishing-bait. No. 1,300,149; Apr. 8; v. 261; p. 374.
- Evans, Joseph E., Bedford, Ind., assignor of one-fourth to O. N. Clifford, St. Louis, Mo., and one-fourth to J. O. Gyger, Bedford, Ind. Suspension device for equalizing the strain on elevator-cables. No. 1,323,357; Dec. 2; v. 269; p. 25.
- Evans, Joseph P., Birmingham, Ala., assignor to Evans Fuel Saving Company. Preventing the loss of fuel in starting furnace-fires. No. 1,297,669; Mar. 18; v. 260; p. 475.
- Evans, Lillie M., administratrix. (See Evans, James M.)
- Evans Manufacturing Company, The. (See Evans, Robert T., assignor.)
- Evans, Martin E., Pittsburgh, Pa. Locking-tongue for fenceposts, &c. No. 1,315,220; Sept. 9; v. 266; p. 147.
- Evans, Mary E., *et al.* (See Wilson, Charles W., assignor.)
- Evans, Milton R., Washington, D. C. Footrest. No. 1,321,903; Nov. 18; v. 268; p. 406.
- Evans, Newton, assignor of one-third to C. F. Schader and one-third to W. H. Heady, Los Angeles, Calif. Extracting copper from ores, &c. No. 1,297,670; Mar. 18; v. 260; p. 476.
- Evans, Powell. (See Flamand, Poul, assignor.)
- Evans, Powell, Philadelphia, Pa. Dry-pipe valve. No. 1,302,144; Apr. 29; v. 261; p. 872.
- Evans, Purd, assignor of one-half to S. L. Herndon, Lexington, Tenn. Overflow-pipe for injectors. No. 1,312,025; Aug. 5; v. 265; p. 33.
- Evans, Ray C., North River, Va. Safety device for hammerless guns. No. 1,305,346; June 3; v. 263; p. 22.
- Evans, Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting device. No. 1,314,581; Sept. 2; v. 266; p. 20.
- Evans, Robert T., assignor to The Evans Manufacturing Company, Hudson, Ohio. Tractor. No. 1,318,490; Oct. 14; v. 267; p. 220.
- Evans, St. George, and E. B. Birkenbeuel, Portland, Oreg. Automobile theft-preventer. No. 1,300,150; Apr. 8; v. 261; p. 374.
- Evans, William A. D., New York, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electrotherapeutical device. No. 1,303,273; May 13; v. 262; p. 179.
- Evans, William A. D., New York, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electrotherapeutical device. No. 1,303,274; May 13; v. 262; p. 179.
- Evans, William K., *et al.* (See Wilson, Charles W., assignor.)
- Eveleth, Clarence M., River Forest, Ill. Weather-strip. No. 1,298,190; Mar. 25; v. 260; p. 613.
- Eveleth, Erwin E. (See Drake, John A., assignor.)
- Evensen, William M., assignor to Goss Printing Press Company, Chicago, Ill. Cam. No. 1,302,024; Apr. 29; v. 261; p. 850.
- Evensen, William M., Chicago, Ill., assignor to Goss Printing Press Company. Cam. No. 1,306,419; June 10; v. 263; p. 255.
- Evenson, Arthur M., Spring Grove, Minn. Standard. No. 1,302,145; Apr. 29; v. 261; p. 872.
- Ever-Safe Auto-Lock Company. (See Erickson, John E., assignor.)
- Everding, Louis, Arcata, Calif. Aerial transporting system. No. 1,299,314; Apr. 1; v. 261; p. 159.
- Everding, Louis C., Arcata, Calif. Locking device. No. 1,326,584; Dec. 30; v. 269; p. 792.
- Evered & Company. (See Evered and Willmott, assignors.)
- Evered, Stanley, and C. Willmott, Birmingham, assignors to Evered & Comp., Limited, London, England. Fastener for casement-windows and the like. No. 1,290,145; Jan. 7; v. 258; p. 32.
- Everett, Edward A., New York, N. Y. Means for focusing lamps. No. 1,307,855; June 24; v. 263; p. 584.
- Everett, James A., McCloud, Kans. Protector for gas mantles and lamps. No. 1,297,335; Mar. 18; v. 260; p. 406.
- Everett, John L., Berkeley Springs, W. Va. Rail-joint. No. 1,295,721; Feb. 25; v. 259; p. 727.
- Everett, Joseph S. and W. S., Cooranbong, New South Wales, Australia. Apparatus for automatically varying the pump-stroke in windmills and the like. No. 1,293,389; Feb. 4; v. 259; p. 97.
- Everett, Samuel H., Brooklyn, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone signaling system. No. 1,293,390; Feb. 4; v. 259; p. 97.
- Everett, Walter S. (See Everett, Joseph S. and W. S.)
- Everhart, Albert M., *et al.* (See Rombach, Fred, assignor.)
- Everhart, George S., Oshkosh, Wis. Non-skid chain. No. 1,314,737; Sept. 2; v. 266; p. 50.
- Everitt, Ryrton F. (See Evans, Edwin R., assignor.)
- Everitt, Walter E., Seattle, Wash. Apparatus to hold and bend springs. No. 1,294,071; Feb. 11; v. 259; p. 287.
- Everitt, Walter E., Seattle, Wash. Apparatus to hold and bend springs. No. 1,323,971; Dec. 2; v. 269; p. 141.
- Everitt, Willard C., Knoxville, Pa. Package-tie. No. 1,311,764; July 29; v. 264; p. 823.
- Everitt, William A. (See Pattison, Roscoe C., assignor.)
- Everlasting Manufacturing Company. (See Compton, Ness, Gausewitz, and Green, assignors.)
- Everlasting Valve Co. (See Hunter, Rudolph M., assignor.) (Reissue.)
- Everlasting Valve Company. (See Wilson, Wylie G., assignor.)
- Everman, John L., Grundy Center, Iowa. Internal-combustion engine. No. 1,290,948; Jan. 14; v. 258; p. 251.
- Evers, Andrew W. (See Lange and Evers.)
- Evers, Arthur J., Chicago, Ill. Pasteboard box and manufacture. No. 1,308,058; July 1; v. 264; p. 9.



*Alphabetical list of patentees—Continued.*

- Evers, Walter, Jersey City, N. J. Camera attachment. No. 1,294,433; Feb. 18; v. 259; p. 408.
- Evers, William H., Lakewood, assignor of one-third to H. Schmitt and one-third to W. F. Eirick, Cleveland, Ohio. Mold for segmental structures. No. 1,305,704; June 3; v. 263; p. 90.
- Eversen, Sam, Billings, Mont. Door-actuating mechanism for elevators. No. 1,313,591; Aug. 19; v. 265; p. 370.
- Evershed, Sydney, Chiswick, London, England. Testing of insulation. No. 1,296,175; Mar. 4; v. 260; p. 83.
- Evershed, Sydney, Chiswick, London, England. Testing of insulation. No. 1,296,176; Mar. 4; v. 260; p. 83.
- Everson, Genevieve P., Cincinnati, Ohio. Means for demonstrating stellar positions and influences. No. 1,301,046; Apr. 15; v. 261; p. 592.
- Everstick Anchor Company. (See Widen, Elmer N., assignor.)
- Evert, Moses A., Easton, Pa. Sieve-shaker. No. 1,290,531; Jan. 7; v. 258; p. 125.
- Evertite Nut Corporation. (See Williams, Charles C., assignor.)
- Eves, Frank, Devils Lake, N. D. Threshing-machine. No. 1,301,670; Apr. 22; v. 261; p. 750.
- Eves, Frank, Devils Lake, N. D. Threshing-machine. No. 1,301,671; Apr. 22; v. 261; p. 750.
- Eviliszter, John W., Ianthia, Mo. Mortising-machine. No. 1,305,269; June 3; v. 263; p. 8.
- Evslin, Leo E., New York, N. Y. assignor, by mesne assignments, to D. Stalberg, Philadelphia, Pa. Artificial tooth. No. 1,292,952; Jan. 28; v. 258; p. 780.
- Ewald, Arno A., Oakfield, Wis. Tire-stapling machine. No. 1,312,026; Aug. 5; v. 265; p. 33.
- Ewald, Frank X., La Salle, Ill. Pneumatic control apparatus for motor-vehicles. No. 1,315,104; Sept. 2; v. 266; p. 115.
- Ewan, Horace H., Baltimore, Md. Gas-heater for water-backs. No. 1,314,860; Sept. 2; v. 266; p. 71.
- Ewart, James B., North Andover, Mass. Railway foot-guard. No. 1,323,358; Dec. 2; v. 269; p. 26.
- Ewen, Harry A., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Electrical instrument. No. 1,294,072; Feb. 11; v. 259; p. 287.
- Ewers, George E., Detroit, Mich. Auxiliary air-intake. No. 1,322,415; Nov. 18; v. 268; p. 502.
- Ewers, Max B. (See Landgren and Ewers.)
- Ewert, Walter S., Los Angeles, Calif. Artificial bait. No. 1,313,476; Aug. 19; v. 265; p. 357.
- Ewing, Clyde O., Richfield, Idaho. Retainer for haystacker. No. 1,322,773; Nov. 25; v. 268; p. 621.
- Ewing, Floyd C., Jeromesville, Ohio. Pedal. No. 1,308,700; July 1; v. 264; p. 127.
- Ewing, Harry L., Dallas, Tex. Screw-jack. No. 1,298,316; Mar. 25; v. 260; p. 640.
- Ewing, Hugh, Columbus, Ohio. Spring-controlled vehicle-wheel link. No. 1,316,565; Sept. 23; v. 266; p. 457.
- Ewing, Maurice M., Lakewood, Ohio. Tie and spacing member for concrete-forms. No. 1,293,391; Feb. 4; v. 259; p. 97.
- Ewoldt, Henry, Grand Island, Nebr. Hauling attachment for automobiles. No. 1,298,681; Apr. 1; v. 261; p. 13.
- Ewoldt, Henry, Grand Island, Nebr. Cable-guide. No. 1,308,667; July 1; v. 264; p. 121.
- Excels Manufacturing Company, The. (See Aarons, Jacob M., assignor.)
- Excelsior Steel Furnace Company, The. (See Menk, Rudolph W., assignor.)
- Excelsior Steel Furnace Company, The. (See Scherer, Albert G., assignor.)
- Exchange By-Products Company. (See Leefeld, Rufus F., assignor.)
- Exhaust Heat, Light & Power Company. (See Pfeifer, Frank, assignor.)
- Exley, William H. (See Leitner and Exley.)
- Expanded Wood Lath Corporation. (See Waller, John A., assignor.)
- Eye Brand Confectionery. (See Cohn, Isaac, assignor.)
- Eyer, Philipp, Halberstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Clouding composition for enamels and making. No. 1,314,861; Sept. 2; v. 266; p. 71.
- Eyler, Peter, York, Nebr. Collapsible egg-crate. No. 1,314,862; Sept. 2; v. 266; p. 71.
- Eymon Crossing Company, The. (See Wilson, Bryon E., assignor.)
- Ezzell, Jonathan R., McKenzie, Tenn. Buckle. No. 1,325,560; Dec. 23; v. 269; p. 563.
- F. Mayer Boot & Shoe Company. (See Schwalbach, Robert, assignor.)
- F. Rassmann Manufacturing Company. (See Rassmann, Hugo C., assignor.)
- F. A. Hardy & Company. (See Polasky, Samuel H., assignor.)
- F. A. Hardy & Company. (See Troppman, Charles J., assignor.)
- F. A. Neider Company, The. (See Laible, Frank J., assignor.)
- F. A. Patrick & Company. (See Hoffman, Louis, assignor.) (Reissue.)
- F. A. Patrick & Company *et al.* (See Witherell, Earl M., assignor.)
- F. B. Redington Company. (See Milmo, Michael J., assignor.)
- F. B. Redington Company. (See Milmo and Redington, assignors.)
- F. B. Williams Co. (See Duvall, William S., assignor.)
- F. B. Zieg Mfg. Company, The. (See Gould, John N., assignor.)
- F. E. Myers and Brother. (See Myers, Philip A., assignor.)
- F. H. Smith Manufacturing Company. (See Larsen, Ivert, assignor.)
- F. L. Schmidt Company. (See Novick, Abraham, assignor.)
- F. L. Smidth & Co. (See Fasting, Johan S., assignor.)
- F. L. Smidth & Co. (See Fasting, John S., assignor.)
- F. L. Smidth & Co. (See Pontoppidan, Carl, assignor.)
- F. N. Burt Company, Limited. (See Palmer, Lyndon G., assignor.)
- F. R. Blair & Co. (See Blair, Frank R., assignor.)
- F. R. Blair & Co. (See Gildner, Henry H., assignor.)
- F. R. Blair & Co. (See Ungar, Gustav A., assignor.)
- F. W. Brackett & Company. (See Copsey, Edwin L., assignor.)
- Faas, Walter, Fort Douglas, Utah. Universal level. No. 1,312,527; Aug. 12; v. 265; p. 156.
- Faber, Charles, New York, N. Y. Table for spinal treatments. No. 1,322,235; Nov. 18; v. 268; p. 468.
- Faber, Guy S., assignor of one-half to S. S. Schmidt, New York, N. Y. Humidifying apparatus. No. 1,293,742; Feb. 11; v. 259; p. 209.
- Faber, Guy S., assignor of one-half to S. S. Schmidt, New York, N. Y. Humidifying apparatus. No. 1,294,074; Feb. 11; v. 259; p. 288.
- Faber, Guy S., Springfield, Ill., assignor of one-half to S. S. Schmidt, New York, N. Y. Automatically-controlled humidifying apparatus. No. 1,294,073; Feb. 11; v. 259; p. 287.
- Faber, Henry A. (See Kermer and Faber.)
- Faber, John P., Dunellen borough, N. J., assignor to Ransome Concrete Machinery Company, New York, N. Y. Liquid measuring and discharging device. No. 1,323,234; Nov. 25; v. 268; p. 709.
- Faber, Steve P., Orange City, Iowa. Exhaust-muffler. No. 1,292,283; Jan. 21; v. 258; p. 599.
- Fabó, Imre, Ward, W. Va. Anticollision appliance for railways. No. 1,292,284; Jan. 21; v. 258; p. 600.
- Fabrique des Longines, Francillon & Co., S. A. (See Perdrisat and Peloux, assignors.)
- Faccioli, Giuseppe, Pittsfield, Mass. assignor to General Electric Company. Graded insulation. No. 1,295,464; Feb. 25; v. 259; p. 667.
- Fader, William, J. Schatman, and L. Goldberg, Newark, N. J. Cover for washtubs and the like. No. 1,307,438; June 24; v. 263; p. 508.
- Faessler, John W., Moberly, assignor to J. Faessler Manufacturing Company, Randolph county, Mo. Roller-tube expander. No. 1,323,035; Nov. 25; v. 268; p. 670.
- Faessler, John W., assignor to J. Faessler Manufacturing Company, Moberly, Mo. Roller-tube expander and flarer. No. 1,323,036; Nov. 25; v. 268; p. 670.
- Fafnir Bearing Company. (See Reynolds, Harry R., assignor.)
- Fagan, Robert, Meacham, Greg. Traction device. No. 1,307,192; June 17; v. 263; p. 429.
- Fageol, Frank R., Oakland, Cal. Wind-shield construction. No. 1,294,642; Feb. 18; v. 259; p. 456.
- Fagerstrom, Axel V., *et al.* (See Singer, William F., assignor.)
- Fagerstrom, Victor A., Rockford, Ill. Rapidly-acting vise. No. 1,295,019; Feb. 18; v. 259; p. 542.
- Faget, James E., assignor to South Side Buick Sales Company, Chicago, Ill. Automobile-bumper. No. 1,299,315; Apr. 1; v. 261; p. 159.
- Fahey, John J., Lynn, Mass. Core and mold for metal castings and making the same. No. 1,315,293; Sept. 9; v. 266; p. 160.
- Fahnestock, Adam B. (See Elvin and Fahnestock.)
- Fahnestock, Adam B., Great Neck, N. Y. Variable-traverse driving mechanism. No. 1,323,972; Dec. 2; v. 269; p. 141.
- Fahnestock, Charles M., trustee. (See Fahnestock, Charles M., assignor.)
- Fahnestock, Charles M., assignor to C. M. Fahnestock, trustee, Cincinnati, Ohio. Receptacle for retaining or excluding heat. No. 1,315,624; Sept. 9; v. 266; p. 219.
- Fahrenbruch, George H., Omaha, Nebr. Stand. No. 1,326,485; Dec. 30; v. 269; p. 772.
- Fahrenwald, Frank A., assignor to The Rhotanlum Company, Cleveland, Ohio. Composition of matter for platinum substitute. No. 1,296,938; Mar. 11; v. 260; p. 290.
- Fahrney, Callo D., Cambridge, Mass. Stair-jack. No. 1,301,672; Apr. 22; v. 261; p. 750.
- Fahrney, Elmer C., Hagerstown, Md. Curtain for motor-vehicles. No. 1,316,834; Sept. 23; v. 266; p. 507.
- Fabs, John E., New York, N. Y. Inclinator. No. 1,298,484; Mar. 25; v. 260; p. 675.
- Fahsel, Carl D., deceased; N. Fahsel, administratrix, New York, N. Y. Dirigible airship. No. 1,291,675; Jan. 14; v. 258; p. 420.
- Fahsel, Nellie, administratrix. (See Fahsel, Carl D.)



## Alphabetical list of patentees—Continued.

- Fallor, Ezra K., Springfield, Mo. Boat construction. No. 1,304,865; May 27; v. 262; p. 551.
- Fair, George A., Detroit, Mich. Chair-bed. No. 1,325,630; Dec. 23; v. 269; p. 576.
- Fairbank, William G., Middletown, Conn. Pastry-cutting guide. No. 1,297,671; Mar. 18; v. 260; p. 476.
- Fairbanks, Clarence T., Chicago, Ill. Display-easel. No. 1,295,465; Feb. 25; v. 259; p. 667.
- Fairbanks, Ernest H. (See Fritz, Julius L., assignor.)
- Fairbanks, Ernest S., Greenfield, Mass. Friction-clutch. No. 1,309,472; July 8; v. 264; p. 298.
- Fairbanks, Ernest S., Greenfield, Mass. assignor to Standard Pressed Steel Co., Philadelphia, Pa. Clutch. No. 1,319,465; Oct. 21; v. 267; p. 431.
- Fairbanks, John E., et al. (See Singer, William F., assignor.)
- Fairbanks, Morse & Co. (See Goff, Glidden, and Mahana, assignors.)
- Fairbanks, Morse & Co. (See Peter, Alfred, assignor.)
- Fairburn, John M. R., et al. (See Orrock, John W., assignor.)
- Fairburn, William A., Short Hills, N. J., and F. V. D. Cruser, Oswego, N. Y., assignors to The Diamond Match Company, Chicago, Ill. Match composition and producing the same. No. 1,290,146; Jan. 7; v. 258; p. 32.
- Fairchild, Alson F., Delavan, Wis. Wheel-tire. No. 1,317,010; Sept. 23; v. 266; p. 540.
- Fairchild, Fred J., Denver, Colo. Combined plug and stopper. No. 1,300,593; Apr. 15; v. 261; p. 495.
- Fairchild, Mortimer J., Elgin, Ill. Socket-wrench. No. 1,292,285; Jan. 21; v. 258; p. 600.
- Fairchild, Sherman M., Oneonta, N. Y. Photographic shutter. No. 1,325,317; Dec. 16; v. 269; p. 501.
- Fairchilds, George R., assignor to trustees Cowan Truck Company, Holyoke, Mass. Industrial truck. No. 1,311,333; July 29; v. 264; p. 743.
- Fairclough, Harry, Los Angeles, Cal. Dead end for electric and telephone wires. No. 1,290,147; Jan. 7; v. 258; p. 32.
- Fairey, Charles R., Hayes, England. Controlling device for aeroplanes. No. 1,313,681; Aug. 19; v. 265; p. 395.
- Fairies, Robert, assignor to Walrus Manufacturing Company, Decatur, Ill. Jar and dipper for serving crushed fruit or the like. (Reissue.) No. 14,681; July 8; v. 264; p. 324.
- Fairweather, Frederick H., Bridgeport, Conn. Air-gun. No. 1,309,321; July 8; v. 264; p. 271.
- Fairweather, John C., Broughton, Ill. Gage. No. 1,305,996; June 10; v. 263; p. 175.
- Faistl, Michael J., Columbus, Ohio. Stovepipe-collar holder. No. 1,312,900; Aug. 12; v. 265; p. 229.
- Falb, Charles, Estherville, Iowa. Strengtheners for eyeglass-cases. No. 1,302,341; Apr. 29; v. 261; p. 909.
- Falconbridge, Charles E., and J. W. Lewsley, Nottingham, England. Electrical apparatus for controlling curtains and lights in theaters. No. 1,322,774; Nov. 25; v. 268; p. 621.
- Falconer, Robert A., and F. Mendizza, Shooter Island, N. Y. Safety head-covering for the protection of workmen's skulls. No. 1,309,882; July 15; v. 264; p. 412.
- Falconieri, Biagio, assignor of one-half to J. B. Arena, Oakland, Calif. Orchard-heater. No. 1,302,025; Apr. 29; v. 261; p. 850.
- Fales, Edward D., Western Springs, assignor, by mesne assignments, to Automatic Electric Company, Chicago, Ill. Automatic telephone-release. No. 1,290,148; Jan. 7; v. 258; p. 33.
- Fales, Orange B., Salem, Ohio. Steering-wheel for automobiles. No. 1,309,123; July 8; v. 264; p. 234.
- Falk, Albin R., Moline, Ill. Air-gun. No. 1,310,745; July 22; v. 264; p. 600.
- Falk, Kaufman G. and E. M. Frankel, assignors to W. G. Lyle, trustee, New York, N. Y. Preserving food. No. 1,309,357; July 8; v. 264; p. 277.
- Falkenau, Louis, Chicago, Ill. Smoking device. No. 1,313,280; Aug. 19; v. 265; p. 321.
- Falkenwalde, Oscar, assignor of one-eighth to C. F. Stauffen, Baltimore, Md. Downdraft-burner. No. 1,317,869; Oct. 7; v. 267; p. 40.
- Falker, Henry W., Ashland, Pa. Gyrotory screening device. No. 1,314,135; Aug. 26; v. 265; p. 515.
- Falkner, Ralph S., et al. (See Ryan, Neta M., assignor.)
- Falkner, Carl G., Dayton, Ohio. Automatic control device. No. 1,305,205; May 27; v. 262; p. 615.
- Fallek, Nathan, Denver, Colo. Electric brake system. No. 1,295,020; Feb. 18; v. 259; p. 542.
- Falley, Lewis H., Kansas City, Mo. Ore classifying and separating apparatus. No. 1,307,626; June 24; v. 263; p. 541.
- Falley, Lewis H., Kansas City, Mo. Apparatus for de-watering and separating ores, sands, &c. No. 1,312,027; Aug. 5; v. 265; p. 33.
- Falley, Lewis H., Kansas City, Mo. Ore cleaning and concentrating apparatus. No. 1,312,028; Aug. 5; v. 265; p. 33.
- Falley, Lewis H., Kansas City, Mo. Ore-separating apparatus. No. 1,322,487; Nov. 18; v. 268; p. 516.
- Fallolits Limited. (See Girodo, Louis, assignor.)
- Fallon, David, New York, N. Y. Military weapon. No. 1,322,775; Nov. 25; v. 268; p. 621.
- Falls Machinery Company. (See Clas, Angelo R., assignor.)
- Falls, William A., assignor to Premier Cushion Spring Co., Detroit, Mich. Back-spring construction. No. 1,295,287; Feb. 25; v. 259; p. 626.
- Falvey, Hugh A., Chicago, Ill. Puncture-proof tire. No. 1,323,259; Dec. 2; v. 269; p. 7.
- Falwell, Wray, Fitchburg, Mass. Vacuum fuel-feed system for motor-vehicles. No. 1,299,443; Apr. 8; v. 261; p. 216.
- Falwell, Wray, assignor to Brown Bag Filling Machine Company, Fitchburg, Mass. Sled. No. 1,299,444; Apr. 8; v. 261; p. 216.
- Famoso, Frank, and S. Anderson, Brooklyn, N. Y. Waste-pipe clean-out. No. 1,317,565; Sept. 30; v. 266; p. 682.
- Famous Players-Lasky Corporation. (See Wyckoff and Handschagl, assignor.)
- Fandrei, Fred, Sturgeon Bay, Wis. Scoop. No. 1,297,132; Mar. 11; v. 260; p. 333.
- Fandrich, Ernest, et al. (See Leonard, Maloney, and Fandrich.)
- Fangbourn, Frank L. (See Finlay and Fangbourn.)
- Fanger, Fred E., Mexico, Mexico. Signal. No. 1,290,728; Jan. 7; v. 258; p. 173.
- Fanning, Alfred N., Joplin, Mo. Combined sill and grate for jigs. No. 1,313,984; Aug. 26; v. 265; p. 487.
- Fanning, Herbert G., and J. B. McAdams, Middletown, Ohio. Lock. No. 1,300,711; Apr. 15; v. 261; p. 520.
- Fanselow, John E., Chicago, Ill. Tap connection for mains. No. 1,317,870; Oct. 7; v. 267; p. 40.
- Fanslow, Benjamin O., Rye, N. Y. Checkwriter. No. 1,308,941; July 8; v. 264; p. 199.
- Faraday Co., The. (See Boyd and Littlejohn, assignors.)
- Farago, Jozsef, Clarence, Pa. Combination knife and gun. No. 1,298,920; Apr. 1; v. 261; p. 70.
- Farb, Pincus, Newark, N. J., assignor to Sonora Phonograph Corporation. Jig. No. 1,294,643; Feb. 18; v. 259; p. 456.
- Farb, Pincus, Newark, N. J., assignor to Sonora Phonograph Corporation. Motor. No. 1,302,342; Apr. 29; v. 261; p. 909.
- Farb, Pincus, Newark, N. J., assignor to Sonora Phonograph Corporation. Fastening device for sound-boxes. No. 1,321,193; Nov. 11; v. 268; p. 221.
- Farb, Pincus, Newark, N. J., assignor to Sonora Phonograph Corporation. Talking-machine cabinet. No. 1,321,194; Nov. 11; v. 268; p. 221.
- Farb, Pincus, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Speed-regulator. No. 1,321,195; Nov. 11; v. 268; p. 221.
- Farb, Pincus, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Illuminating device for talking-machines. No. 1,321,196; Nov. 11; v. 268; p. 221.
- Farber, John C. (See Capps, Joseph W., assignor.)
- Farber, Morris. (See Genovese, Rosario, assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Flaecher and Reuter, assignors.)
- Fargo, Arthur H., Poughkeepsie, N. Y. Plug and receptacle. No. 1,311,266; July 29; v. 264; p. 730.
- Faris, Harry N., Kansas City, Kans., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Trunk-circuits. No. 1,313,477; Aug. 19; v. 265; p. 357.
- Faris, Melvin G., U. S. Army. Antifreezing device. No. 1,324,310; Dec. 9; v. 269; p. 249.
- Farkas, Joseph D., New York, N. Y. Bathing-suit holder. No. 1,318,652; Oct. 14; v. 267; p. 250.
- Farkas, Karl, Glen Ridge, N. J. Producing dense metal rods of fine powders. No. 1,323,623; Dec. 2; v. 269; p. 75.
- Farland, Louis J., and L. F. Robert, Au Sable Forks, N. Y. Rod-packing. No. 1,307,901; June 24; v. 263; p. 592.
- Farley, Bert T., Paris, Tex. Safety-crank. No. 1,308,701; July 1; v. 264; p. 127.
- Farley, Charles R., Hayes, England. Controlling device for aeroplanes. No. 1,313,680; Aug. 19; v. 265; p. 395.
- Farley, John A., Chicago, Ill., assignor to Crane Company. Drinking-fountain fixture. No. 1,312,623; Aug. 12; v. 265; p. 176.
- Farlow, J. W. (See Duncan, Callie, assignor.)
- Farmer, Clarence G. (See Persons and Farmer.)
- Farmer, Ernest H., London, England. Photographic camera. No. 1,291,452; Jan. 14; v. 258; p. 367.
- Farmer, Ernest H., London, England. Method and apparatus for developing film-cartridges. No. 1,291,453; Jan. 14; v. 258; p. 367.
- Farmer, Frank H. (See Pratt, Farmer, and Kemp.)
- Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Motor-vehicle. No. 1,300,151; Apr. 8; v. 261; p. 374.
- Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Automobile traction mechanism. No. 1,305,531; June 3; v. 263; p. 56.
- Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Automobile traction mechanism. No. 1,305,452; June 3; v. 263; p. 42.
- Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Internal-drive rear axle for motor-trucks. No. 1,305,453; June 3; v. 263; p. 42.
- Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Internal-drive rear axle. No. 1,305,454; June 3; v. 263; p. 43.



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- Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Radiator suspension. No. 1,322,683; Nov. 25; v. 268; p. 604.
- Farmer, James D., St. Louis, Mo. Twine-holder. No. 1,290,149; Jan. 7; v. 258; p. 33.
- Farmer, Luke W., Somerville, Mass. Baking-dish. No. 1,295,466; Feb. 25; v. 259; p. 667.
- Farnham, Carl O., Paris, Ill. Internal-combustion rotary engine. No. 1,308,896; July 8; v. 264; p. 191.
- Farnham, Frederick F., Fairbrooks, assignor to National Metal Molding Company, Pittsburgh, Pa. Producing blue powder. No. 1,299,445; Apr. 8; v. 261; p. 217.
- Farnham, Leonard, New York, N. Y. Ship-raising device. No. 1,300,943; Apr. 15; v. 261; p. 569.
- Farnsworth, Arthur J., and E. M. St. Claire, San Francisco, Calif. Bag-holder. No. 1,307,439; June 24; v. 263; p. 508.
- Farnsworth, Charles, Sanborn, Iowa. Anchor for check-row-wire. No. 1,324,240; Dec. 9; v. 269; p. 236.
- Farnsworth, Frederick C., Conshohocken, Pa. Tilting trap. No. 1,308,897; July 8; v. 264; p. 191.
- Farnsworth, William F., Washington, D. C. Resilient tire. No. 1,318,270; Oct. 7; v. 267; p. 117.
- Farnsworth, William W., *et al.* (See Ryan, Edward A., assignor.)
- Farnsworth, William W., *et al.* (See White, Edward H., assignor.)
- Farnsworth, Willis S., assignor to Coin Controlled Lock Company, San Francisco, Calif. Lock-guard. No. 1,308,734; July 1; v. 264; p. 133.
- Farnum, Edward J., assignor to one-half to W. S. Nagle, Fox Lake, Ill. Tractor. No. 1,290,397; Dec. 30; v. 269; p. 755.
- Farnum, Loring N., assignor to Buttonlath Manufacturing Company, Los Angeles, Cal. Machine for making plaster-lath and the like. No. 1,290,949; Jan. 14; v. 258; p. 251.
- Farnum, William C., Winchendon, Mass. Cutter. No. 1,295,976; Mar. 4; v. 260; p. 36.
- Farnum, William C., assignor to W. M. Whitney, Winchendon, Mass. Knife-marker. No. 1,302,646; May 6; v. 262; p. 31.
- Farquhar, Cosmo, Rutherford, N. J., assignor to American Code Company, Inc., New York, N. Y. Table for coding, decoding, and checking communications. No. 1,318,366; Oct. 14; v. 267; p. 196.
- Farr, Charles J., *et al.* (See Marshall, Harry P., assignor.)
- Farr, Ernest W. (See Dupuy, Arthur O., assignor.)
- Farr, Frederick G., assignor to Hydraulic Oil Systems Corporation, Detroit, Mich. Hydraulic storage and delivery system. No. 1,299,567; Apr. 8; v. 261; p. 244.
- Farra, Francis J., Rochester, Minn. Safety-hook. No. 1,312,966; Aug. 12; v. 265; p. 243.
- Farrar, Ben R., *et al.* (See Wernette, Adolph J., assignor.)
- Farrar, Kilby. (See Shipley and Farrar.)
- Farrar, Monroe, Chicago, Ill. Vehicle-wheel. No. 1,314,582; Sept. 2; v. 266; p. 20.
- Farrar, Monroe, assignor to F. C. Austin, Chicago, Ill. Bank-support. No. 1,305,270; June 3; v. 263; p. 8.
- Farrell, Arthur J., Pittsburgh, Pa. Convertible vehicle-body. No. 1,317,783; Oct. 7; v. 267; p. 23.
- Farrell Foundry & Machine Company. (See Schnuck, Carl E., assignor.)
- Farrell, Frank. (See O'Neill and Farrell.)
- Farrell, George, Miles City, Mont. Plowshare. No. 1,294,434; Feb. 18; v. 259; p. 408.
- Farrell, George R., Detroit, Mich. Vehicle-wheel. No. 1,309,473; July 8; v. 264; p. 298.
- Farrell, George W., and E. R. Newkirk, Grand Rapids, Mich. Demountable wheel. No. 1,325,838; Dec. 23; v. 269; p. 615.
- Farrell, James F., *et al.*, trustees. (See Stanard, Maurice L., assignor.)
- Farrell, Joseph E., Jr., Washington, D. C., assignor to International Munitions Company, Inc., of Delaware. Combination-grenade. No. 1,309,280; July 8; v. 264; p. 263.
- Farrell, Martin V., and H. L. Maier, Wilmington, Del. Means for thawing frosted fire-hydrants, water-mains, and the like. No. 1,294,888; Feb. 18; v. 259; p. 513.
- Farrelly, Francis J. (See Greiner and Farrelly.)
- Farrer, Charles M., Seattle, Wash. Baby-buggy. No. 1,302,343; Apr. 29; v. 261; p. 909.
- Farrington, Elmer S., Hardwick, Vt. Account-pad. No. 1,299,316; Apr. 1; v. 261; p. 159.
- Farris, Henry, Steuben, Wis. Load-binder. No. 1,316,290; Sept. 16; v. 266; p. 356.
- Farris, Walter, assignor to Bucyrus Company, South Milwaukee, Wis. Control-valve for friction-clutch thrust-cylinders. No. 1,290,150; Jan. 7; v. 258; p. 33.
- Farriss, Charles S., De Land, Fla. Detachable and collapsible handle for safety-razors. No. 1,292,449; Jan. 28; v. 258; p. 660.
- Farrow, Willard M., Sr. (See Stocking and Farrow.)
- Farthing, David J., deceased; W. J. Pierce, administrator, assignor of one-third to J. E. Reece and one-third to A. C. Reece, Butler, Tenn. Corn-harvester. No. 1,309,568; July 8; v. 264; p. 317.
- Farthing, George W., Dry Fork, Va. Inclinator for airplanes. No. 1,301,925; Apr. 29; v. 261; p. 831.
- Farup, Peder, Trondhjem, assignor, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Producing refined titanium-oxygen compounds. No. 1,325,561; Dec. 23; v. 269; p. 563.
- Farwell, Charles, Lock Haven, Pa. Railway transfer-table. No. 1,324,805; Dec. 16; v. 269; p. 406.
- Fasel, Charles, and W. W. Garland, Butte, Mont. Clothes-hanger. No. 1,325,839; Dec. 23; v. 269; p. 615.
- Fasey, William, Snaresbrook, England. Engine. No. 1,298,191; Mar. 25; v. 260; p. 613.
- Faske, Joseph, Detroit, Mich. Tire. No. 1,326,444; Dec. 30; v. 269; p. 764.
- Faso, Salvatore, Madera, Calif. Track for tractors. No. 1,326,331; Dec. 30; v. 269; p. 743.
- Fassa, Peter, Brooklyn, N. Y. Computing-machine. No. 1,293,392; Feb. 4; v. 259; p. 97.
- Fassbinder, Werner B., Guttenberg, Iowa. Automobile-headlight. No. 1,293,065; Feb. 4; v. 259; p. 22.
- Fast, Alger, Los Angeles, Calif. Headlight. No. 1,326,856; Dec. 30; v. 269; p. 842.
- Fast, Gustave, Mount Washington, Md. Power-transmission apparatus. No. 1,299,156; Apr. 1; v. 261; p. 123.
- Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Grinding-mill. No. 1,295,288; Feb. 25; v. 259; p. 626.
- Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Tube-mill. No. 1,295,289; Feb. 25; v. 259; p. 627.
- Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Tube-mill. No. 1,295,290; Feb. 25; v. 259; p. 627.
- Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Grinding-mill. No. 1,295,291; Feb. 25; v. 259; p. 627.
- Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Rotary kiln. No. 1,313,281; Aug. 19; v. 265; p. 321.
- Fastinger, Charles, Point Place, Ohio. Radiator. No. 1,321,515; Nov. 11; v. 268; p. 282.
- Fatscher, George C., Lakewood, Ohio. Air-purifier. No. 1,316,883; Sept. 23; v. 266; p. 516.
- Fatscher, George C., Lakewood, Ohio. Sand-cutting appliance. No. 1,316,884; Sept. 23; v. 266; p. 516.
- Fatum, Paul F., Hartford, Conn. Window-shade bracket. No. 1,302,781; May 6; v. 262; p. 56.
- Fauble, Don W., assignor of one-third to E. M. Pace, Columbus, Nebr. Decoy for wild ducks and the like. No. 1,316,566; Sept. 23; v. 266; p. 458.
- Faucher, George E., Beeville, Tex. Beet-harvester. No. 1,300,362; Apr. 15; v. 261; p. 446.
- Faulk, James M., St. John, Kans. Attachment for wheels. No. 1,312,437; Aug. 5; v. 265; p. 110.
- Faulkner, Albert N., New York, N. Y. Ladder-foot. No. 1,293,066; Feb. 4; v. 259; p. 22.
- Faulkner, Charles J., Ball Ground, Ga. Grapple. No. 1,312,241; Aug. 5; v. 265; p. 73.
- Faulkner, James B., Cincinnati, Ohio. Collapsible paper-holder. No. 1,293,067; Feb. 4; v. 259; p. 22.
- Fausek, Arthur J. and I. F., St. Louis, Mo. Torch. No. 1,300,256; Apr. 15; v. 261; p. 423.
- Fausek, Irving F. (See Fausek, Arthur J. and I. F.)
- Faust, Clarence D., Cullom, Ill. Corn-planter attachment. No. 1,317,282; Sept. 30; v. 266; p. 627.
- Faust, Earl C., Detroit, Mich. Automobile tractor attachment. No. 1,292,286; Jan. 21; v. 258; p. 600.
- Fauth, Joseph S., Bloomfield, N. J. Spark-plug. No. 1,309,192; July 8; v. 264; p. 246.
- Favorite, Harry J., Tippencanoe City, Ohio. Churn. No. 1,306,177; June 10; v. 263; p. 208.
- Fawcett, Charles H., Independence, Iowa. License-holder for motor-vehicles. No. 1,292,740; Jan. 28; v. 258; p. 730.
- Fawell, Joseph E., Pittsburgh, Pa. Rolling-mill. No. 1,301,414; Apr. 22; v. 261; p. 702.
- Fawkes, Wilbert C., assignor of one-half to W. R. R. Beier, one-fourth to B. Metzger, and one-fourth to A. Meyer, Portland, Ore. Garden-sprinkler. No. 1,297,818; Mar. 18; v. 260; p. 508.
- Fay, Charles H., Newark, N. J. Hydraulic hoist for ash-cans and the like. No. 1,314,257; Aug. 26; v. 265; p. 539.
- Fay, Frank A., Caldwell, N. J., assignor to W. E. Quimby, Inc., New York, N. Y. Pump. No. 1,299,157; Apr. 1; v. 261; p. 123.
- Fay, Harold J. W., Westboro, Mass., assignor to Submarine Signal Company, Portland, Me. Mechanism for the transmission and reception of sound. No. 1,321,197; Nov. 11; v. 268; p. 222.
- Fay, Horace B., Willoughby, assignor to The Columbia Axle Company, Cleveland, Ohio. Axle. No. 1,318,856; Oct. 14; v. 267; p. 289.
- Fay, James F., Jr., Saugus, assignor of one-half to N. E. Covell, Newtonville, Mass. Humidor. No. 1,291,454; Jan. 14; v. 258; p. 368.
- Fay, Lawrence T., assignor to The Fay Rubber Products Company, Elyria, Ohio. Resilient heel. No. 1,325,695; Dec. 23; v. 269; p. 588.
- Fay Rubber Products Company, The. (See Fay, Lawrence T., assignor.)



## Alphabetical list of patentees—Continued.

- Fay, Thomas J., Brooklyn, N. Y., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Apparatus for shaping and tempering metal. No. 1,298,682; Apr. 1; v. 261; p. 13.
- Fay, Thomas J., Brooklyn, N. Y., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Lubricating compound. No. 1,309,618; July 15; v. 264; p. 363.
- Fay, Thomas J., Brooklyn, N. Y., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Tempering metals. No. 1,318,367; Oct. 14; v. 267; p. 196.
- Fay, Thomas J., Brooklyn, N. Y., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Friction-leaf for springs. No. 1,319,214; Oct. 21; v. 267; p. 384.
- Fay, Thomas J., Brooklyn, N. Y., assignor to The Standard Parts Company, Cleveland, Ohio. Fuel-supply system for automobiles. No. 1,325,318; Dec. 16; v. 269; p. 501.
- Fay, William, *et al.* (See Zsarnay, Béla, assignor.)
- Fayer, Charles, New York, N. Y., assignor to Wappler Electric Co., Inc. High-tension rectifier. No. 1,320,040; Oct. 28; v. 267; p. 562.
- Feagans, George E., Los Angeles, Calif. Finger-ring. No. 1,325,840; Dec. 23; v. 269; p. 615.
- Feast, Christopher C., Leigh-on-Sea, England. Wheel-holding apparatus. No. 1,326,188; Dec. 30; v. 269; p. 716.
- Featheredge Rubber Company. (See Ellis, Joseph, assignor.)
- Febre, Leo, Norfolk, Va. Grader and ditcher. No. 1,324,241; Dec. 9; v. 269; p. 236.
- Febrey, Harold H., Newark, assignor to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Rail-bond. No. 1,301,239; Apr. 22; v. 261; p. 668.
- Fechter, George, Butler, Pa. Plastic manifolding composition. No. 1,304,291; May 20; v. 262; p. 403.
- Feckley, Frona C., Delta, Iowa. Bottle-washer. No. 1,319,859; Oct. 28; v. 267; p. 529.
- Feckley, William A., Delta, Iowa. Bedstead. No. 1,301,240; Apr. 22; v. 261; p. 668.
- Fedden, Alfred H. R., Fishponds, and L. F. G. Butler, St. Andrew's Park, Bristol, England. Induction-pipe for radial or rotary internal-combustion engines. No. 1,323,685; Dec. 2; v. 269; p. 86.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,294,435; Feb. 18; v. 259; p. 408.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,295,142; Feb. 25; v. 259; p. 593.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,296,058; Mar. 4; v. 260; p. 55.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,296,785; Mar. 11; v. 260; p. 254.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,297,454; Mar. 18; v. 260; p. 430.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,298,192; Mar. 25; v. 260; p. 613.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator unit. No. 1,299,158; Apr. 1; v. 261; p. 123.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Making units for radiator-cores. No. 1,322,553; Nov. 25; v. 268; p. 580.
- Fedders Manufacturing Company. (See Fedders, John M., assignor.)
- Feder, Milton, Chicago, Ill. Baking-oven. No. 1,303,276; May 13; v. 262; p. 179.
- Feder, Milton, Oakland, Calif. Baking-oven. No. 1,303,275; May 13; v. 262; p. 179.
- Federal Adding Machine Corporation, The. (See Wales, Charles, assignor.)
- Federal Sign System. (See Burke, Osbert S., assignor.)
- Federal Sign System (Electric). (See Keil, Gustav B., assignor.)
- Federal Signal Company. (See Turreff, Stanley J., assignor.)
- Federal Telegraph Company. (See Beal, Ralph R., assignor.)
- Federal Telegraph Company. (See Fuller, Leonard F., assignor.) (Reissue.)
- Federal Telegraph Company. (See Marx and Fuller, assignors.)
- Federkiewicz, John, Yardley, Pa., and M. Olszak, Trenton, N. J. Combined knife and wire-cutter. No. 1,303,277; May 13; v. 262; p. 180.
- Fedrice, Francesco, and N. Polli, Chicago, Ill. Shoe. No. 1,294,075; Feb. 11; v. 259; p. 288.
- Fedrick, George B., and J. M. Lee, Dodge City, Kans. Rotary pump. No. 1,292,287; Jan. 21; v. 258; p. 600.
- Fedzyna, Fedko, New York, N. Y. Flying-machine. No. 1,308,175; July 1; v. 264; p. 31.
- Fedzyna, Fedko, New York, N. Y. Swimming apparatus. No. 1,320,540; Nov. 4; v. 268; p. 34.
- Fee, Horatio A., and G. H. Aeveaenes, San Antonio, Tex. Treating cotton-seed. No. 1,304,670; May 27; v. 262; p. 615.
- Fee, Joseph W., and D. Morey, Bristol, R. I. Shoe-last-securing means. No. 1,295,467; Feb. 25; v. 259; p. 667.
- Feeney, Joseph J., Peoria, Ill. Leaf-turner. No. 1,316,436; Sept. 16; v. 266; p. 384.
- Feeney, Mary J., St. Paul, Minn. Ash-sifter. No. 1,306,053; June 10; v. 263; p. 185.
- Feenie, William, Buhl, Minn., and W. W. Rhodes, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing scale oxid from the surface of iron and steel. No. 1,326,585; Dec. 30; v. 269; p. 792.
- Feer, Fritz, Basel, Switzerland. Die-stock. No. 1,307,580; June 24; v. 263; p. 533.
- Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's Mfg Co., Philadelphia, Pa. Shears. No. 1,322,099; Nov. 18; v. 268; p. 441.
- Fehlman, Bernard F., Midwest, assignor of one-half to W. J. Cheley, Thermopolis, Wyo. Underreamer. No. 1,325,148; Dec. 16; v. 269; p. 469.
- Feig, Curt. (See Brown, James, assignor.)
- Feig, Curt, assignor to Venango Knitting Mills, Incorporated, Philadelphia, Pa. Electrostatic device for circular-knitting machines. No. 1,301,673; Apr. 22; v. 261; p. 751.
- Feigelman, Leon, New York, N. Y. Binder and lining holder. No. 1,317,566; Sept. 30; v. 266; p. 682.
- Feigenspan, Edwinn C. (See Koenig and Weichel, assignors.)
- Felghery, Eugene J., Covington, Ky. Curtain-fastener device for vehicle-tops. No. 1,305,082; May 27; v. 262; p. 592.
- Feise, Joseph B. (See Dorais and Feise.)
- Feist, Charles M., Sioux City, Iowa. Trolley. No. 1,299,317; April 1; v. 261; p. 160.
- Fekete, Stephen I., *et al.* (See Baits and Fekete.)
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Brake-lever ratchet mechanism. No. 1,294,783; Feb. 18; v. 259; p. 488.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Muffler for internal-combustion engines. No. 1,305,347; June 3; v. 263; p. 22.
- Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Wheel-drive. No. 1,319,519; Oct. 21; v. 267; p. 441.
- Feland, Logan, Hopkinsville, Ky. Mine. No. 1,318,857; Oct. 14; v. 267; p. 289.
- Felden, Harry. (See Anderson and Felden.)
- Feldenheimer, William, London, England. Treatment of clay. No. 1,324,958; Dec. 16; v. 269; p. 434.
- Feldenheimer, William, London, and W. W. Plowman, East Sheen, England. Soap or saponaceous composition and manufacturing the same. No. 1,321,516; Nov. 11; v. 268; p. 282.
- Feldkamp, Frederick A., Newark, N. J. Fuse-indicator. No. 1,314,583; Sept. 2; v. 266; p. 21.
- Feldkamp, Frederick A., Newark, N. J. Multiple-fuse plug. No. 1,318,653; Oct. 14; v. 267; p. 251.
- Feldman, Abram M., New York, N. Y. Heating and cooling apparatus. No. 1,315,766; Sept. 9; v. 266; p. 244.
- Feldman, Albert E., assignor to Almet Accessories Corporation, Brooklyn, N. Y. Carrier for spare tires. No. 1,325,083; Dec. 16; v. 269; p. 457.
- Feldman, Edward D., Chester, N. Y. Penholder. No. 1,308,349; July 1; v. 264; p. 62.
- Feldman, Joseph C., assignor to T. K. Feldman, New York, N. Y. Electrical water-heater. No. 1,299,159; Apr. 1; v. 261; p. 124.
- Feldman Machine Works. (See Kornas, Joseph, assignor.)
- Feldman, Shimon, assignor to J. M. Aivaz Societe par action pour Construction de Machines, Petrograd, Russia. Apparatus for taking off single sheets from piles. No. 1,291,455; Jan. 14; v. 258; p. 368.
- Feldman, Shimon, assignor to J. M. Aivaz Societe par action pour Construction de Machines, Petrograd, Russia. Pneumatic apparatus for taking off single sheets from piles. No. 1,291,456; Jan. 14; v. 258; p. 368.
- Feldman, Shimon, assignor to J. M. Aivaz Societe par action pour Construction de Machines, Petrograd, Russia. Apparatus for manufacturing boxes of carton-blanks. No. 1,294,076; Feb. 11; v. 259; p. 288.
- Feldman, Shimon, assignor to J. M. Aivaz Societe par action pour Construction de Machines, Petrograd, Russia. Apparatus for packing cigarettes. No. 1,295,722; Feb. 25; v. 259; p. 727.
- Feldman, Shimon, assignor to J. M. Aivaz Societe par action pour Construction de Machines, Petrograd, Russia. Apparatus for taking off single sheets from piles. No. 1,298,485; Mar. 25; v. 260; p. 676.
- Feldman, Tillio K. (See Feldman, Joseph C., assignor.)
- Feldmann, Charles H. (See Anthon and Feldmann.)
- Feldmeier, Harvey, assignor to D. H. Burrell & Co., Little Falls, N. Y. Holding-tank for pasteurizers. No. 1,319,057; Oct. 21; v. 267; p. 353.
- Felix, Benjamin B., Chicago, Ill. Rubber-mixing machine. No. 1,320,128; Oct. 28; v. 267; p. 578.
- Felix, Paul, Knoxville, Tenn. Multicylinder engine. No. 1,311,060; July 22; v. 264; p. 659.



- Felker, Charles H., Wollaston, Mass. Chicken-feeder. No. 1,290,729; Jan. 7; v. 258; p. 173.
- Felland, Melvin J., Great Falls, Mont. Electric signal for motion-picture-projector reels. No. 1,300,257; Apr. 15; v. 261; p. 423.
- Fellheimer, Alfred, New York, N. Y. Ticket-seller's booth. No. 1,308,702; July 1; v. 264; p. 127.
- Fellows, Edwin R., Springfield, Vt. Machine for cutting crown-gears. No. 1,306,331; June 10; v. 263; p. 239.
- Fellows, Hugh W., Los Angeles, Calif., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Lift mechanism for gang-plows. No. 1,319,466; Oct. 21; v. 267; p. 432.
- Fellows, Hugh W., Los Angeles, Calif., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Power-lift mechanism for plows. No. 1,319,467; Oct. 21; v. 267; p. 432.
- Fellows, John H., Enid, Okla. Gold-washing apparatus. No. 1,316,835; Sept. 23; v. 266; p. 507.
- Fellroth, Erick O., Westby, Mont. Pocket. No. 1,292,741; Jan. 28; v. 258; p. 731.
- Fellroth, Erick O., Westby, Mont. Door-fastening means. No. 1,326,586; Dec. 30; v. 269; p. 792.
- Felstrup, Andrew R., San Diego, Calif. Iceless refrigerator. No. 1,305,206; May 27; v. 262; p. 616.
- Felt & Tarrant Manufacturing Company. (See Turck, Joseph A. V., assignor.)
- Feltman, Alfred, Brooklyn, N. Y. Amusement riding device. No. 1,293,393; Feb. 4; v. 259; p. 97.
- Feltner, Thesdie F., Boise, Idaho. Inhaler and dust-protector. No. 1,297,337; Mar. 18; v. 260; p. 406.
- Felton, George W., Elm Springs, S. D. Post-spade. No. 1,306,807; June 17; v. 263; p. 359.
- Felton, Hiram A., Orange, Mass. Tension device. No. 1,319,520; Oct. 21; v. 267; p. 441.
- Felton, William G., Wakeman, Ohio. Hot-air heating system. No. 1,306,420; June 10; v. 263; p. 255.
- Felts, Elmer W., *et al.* (See Barnacko, Fred W., assignor.)
- Feltz, Charles F., assignor of one-fourth to W. E. Anderson, one-fourth to W. H. Langdale, and one-fourth to S. L. Langdale, St. Louis, Mo. Breather for internal-combustion engines. No. 1,306,421; June 10; v. 263; p. 256.
- Fenchelle, Hugh E., Genoa, Italy, assignor to W. L. Kann, trustee, Pittsburgh, Pa. Operation of fuel spraying or injection valves for internal-combustion engines. No. 1,294,077; Feb. 11; v. 259; p. 288.
- Fenchelle, Hugh E., Genoa, Italy, assignor to W. L. Kann, trustee, Pittsburgh, Pa. Starting-valve for internal-combustion engines. No. 1,294,078; Feb. 11; v. 259; p. 288.
- Fenchelle, Hugh E., Genoa, Italy, assignor to W. L. Kann, trustee, Pittsburgh, Pa. Control of internal-combustion engines. No. 1,318,368; Oct. 14; v. 267; p. 196.
- Fend, Roland S., assignor to Woods Motor Vehicle Company, Chicago, Ill. Automobile. No. 1,303,870; May 20; v. 262; p. 326.
- Fend, Roland S., assignor to The Woods Motor Vehicle Company, Chicago, Ill. Automobile. No. 1,314,738; Sept. 2; v. 266; p. 50.
- Fend, Roland S., assignor to Woods Motor Vehicle Company, Chicago, Ill. Automobile control mechanism. No. 1,321,904; Nov. 18; v. 268; p. 406.
- Fengler, Hermann V., West Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,299,403; Apr. 1; v. 261; p. 179.
- Fenlason, Orin C., Raymond, Wash. Collapsible veneer berry-box. No. 1,298,921; Apr. 1; v. 261; p. 70.
- Fenlason, Orin C., Raymond, Wash. Egg and fruit carton. No. 1,307,660; June 24; v. 263; p. 547.
- Fenlon, Charles E., Grays Lake, Ill. Removing bulges and swells from cans and testing the same for leaks. No. 1,301,241; Apr. 22; v. 261; p. 668.
- Fenn, William B., New York, N. Y. Reinforced receptacle, tube, or the like and making the same. No. 1,312,780; Aug. 12; v. 265; p. 207.
- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Liquid-sterilizing device. No. 1,292,742; Jan. 28; v. 258; p. 731.
- Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Bill or letter sheet. No. 1,296,059; Mar. 4; v. 260; p. 56.
- Fennwald, Andrew B., Westphalia, Mo. Automatic hose-coupling. No. 1,313,805; Aug. 19; v. 265; p. 419.
- Fenno, Arthur D., Enid, Okla. Automobile-lock. No. 1,307,001; June 17; v. 263; p. 395.
- Fent, Elijah B. M., and G. W. Chandler, Anderson, Ind. Water-wheel. No. 1,306,222; June 10; v. 263; p. 217.
- Fenton, Harry C., Moorefield, Nebr. Holder for pliers. No. 1,322,297; Nov. 18; v. 268; p. 479.
- Fenton, John A., Oakland, Calif. Ornamental article and producing the same. No. 1,302,344; Apr. 29; v. 261; p. 909.
- Fenton, John F., Kansas City, Mo. Hold-up frustrator device. No. 1,321,021; Nov. 4; v. 268; p. 125.
- Fenton, Walter, Manchester, England, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,309,322; July 8; v. 264; p. 271.
- Feraud, Frank H., Granite City, Ill. Phonograph-lamp. No. 1,300,363; Apr. 15; v. 260; p. 447.
- Feraud, Frank H., Granite City, Ill. Phonograph-lamp. No. 1,310,564; July 22; v. 264; p. 567.
- Ferdon, Guy W., Creskill, N. J. Collapsible folding stove. No. 1,300,594; Apr. 15; v. 261; p. 495.
- Ferdon, Guy W., Creskill, N. J. Marmite. No. 1,300,712; Apr. 15; v. 261; p. 520.
- Ferdon, Guy W., Creskill, N. J. Portable cooked-food heat-retaining servitor. No. 1,324,653; Dec. 9; v. 269; p. 315.
- Fereday, Harry J., Upper Tooting, London, assignor of one-half to F. Palmer, Westminster, England. Stress-recorder. No. 1,307,902; June 24; v. 263; p. 592.
- Fereday, Harry J., Upper Tooting, London, England. Traveling apparatus. No. 1,318,318; Oct. 7; v. 267; p. 126.
- Ferguson, Arthur S., Springfield, Mo. Toy flying-machine. No. 1,317,128; Sept. 23; v. 266; p. 562.
- Ferguson, Cash C., Champaign, Ill. Horseshoe. No. 1,300,944; Apr. 15; v. 261; p. 569.
- Ferguson, Clayton C., Jersey City, N. J. Safety-envelop. No. 1,294,436; Feb. 18; v. 259; p. 409.
- Ferguson, David, assignor of one-third to J. J. Scheiwer and one-third to A. T. Scheiwer, Erie, Pa. Hose-coupling. No. 1,324,654; Dec. 9; v. 269; p. 315.
- Ferguson, E. M., *et al.* (See Auger, Joseph T., assignor.)
- Ferguson, Estis J., and W. C. Alexander, Osawatimie, Kans. Steam-lubricator-filling device. No. 1,321,198; Nov. 11; v. 268; p. 222.
- Ferguson, Fergus R., assignor to The Columbia Clutch Company, Cleveland, Ohio. Clutch. No. 1,300,831; Apr. 15; v. 261; p. 546.
- Ferguson, George. (See Dunbar and Ferguson.)
- Ferguson, George, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Rubber sole for turn-shoes. No. 1,303,871; May 20; v. 262; p. 326.
- Ferguson, George, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Rubber sole for turn-shoes. No. 1,312,528; Aug. 12; v. 265; p. 157.
- Ferguson, George E., New York, N. Y., assignor to Pyrene manufacture of piston-rings. No. 1,292,735; Jan. 28; Manufacturing Company. Fire-extinguishing solution having a low freezing-point. No. 1,292,743; Jan. 28; v. 258; p. 731.
- Ferguson, George E., New York, N. Y., assignor to Pyrene Manufacturing Company. Fire-extinguishing composition having low freezing-point. No. 1,292,744; Jan. 28; v. 258; p. 731.
- Ferguson, Hubert M. (See Murdock, William J., assignor.)
- Ferguson, John A., Denver Colo. Sectionally-spaced hollow-wall construction. No. 1,298,025; Mar. 25; v. 260; p. 578.
- Ferguson, John A., Denver, Colo. Multiple sectional hollow-wall construction. No. 1,298,026; Mar. 25; v. 260; p. 578.
- Ferguson, John A., Denver, Colo. Multiple mold for tiles and forming its complementarily-functioning matrix units. No. 1,298,027; Mar. 25; v. 260; p. 578.
- Ferguson, Louis M., Toledo, Ohio. Can-opener. No. 1,311,334; July 29; v. 264; p. 743.
- Ferguson, Lyman H., Ithaca, N. Y., assignor to Ferguson Tire Corporation. Vehicle-tire. No. 1,306,587; June 10; v. 263; p. 286.
- Ferguson, Robert B., Los Angeles, Calif., assignor to R. B. Ferguson, trustee. Wrench. No. 1,301,674; Apr. 22; v. 261; p. 751.
- Ferguson, Robert F., Dearborn, Mich. Lamp-bracket. No. 1,296,060; Mar. 4; v. 260; p. 56.
- Ferguson, Thomas, Lowell, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeler device for filling-replenishing looms. No. 1,308,234; July 1; v. 264; p. 42.
- Ferguson, Thomas B., Newark, N. J., assignor to Standard Stove & Light Company. Liquid-fuel burner. No. 1,324,343; Dec. 9; v. 269; p. 256.
- Ferguson, Thomas R., and E. L. Larson, Chicago, Ill., assignors, by mesne assignments, to Alfred O. Blach Company. Product for carbonizing steel. No. 1,322,298; Nov. 18; v. 268; p. 479.
- Ferguson Tire Corporation. (See Ferguson, Lyman H., assignor.)
- Ferguson Von G., Fairbury, Nebr. Locomotive draft appliance. No. 1,326,486; Dec. 30; v. 269; p. 772.
- Ferguson, William C., Garden City, assignor to Nichols Copper Company, New York, N. Y. Treatment of electrolytic slimes. No. 1,305,787; June 3; v. 263; p. 105.
- Ferguson, William C., Garden City, assignor to Nichols Copper Company, New York, N. Y. Treatment of electrolytic slimes. No. 1,305,788; June 3; v. 263; p. 105.
- Ferguson, William C., Garden City, assignor to Nichols Copper Co., New York, N. Y. Recovering platinum metals. No. 1,315,660; Sept. 9; v. 266; p. 225.
- Ferguson, William H., *et al.* (See Sethman, George H., assignor.)
- Ferko, John, Cleveland, Ohio. Combined shade and curtain hanger. No. 1,299,568; Apr. 8; v. 261; p. 245.
- Fernier, Victor E., Forney, Tex. Toy. No. 1,295,292; Feb. 25; v. 259; p. 627.
- Fernier, Victor E., Forney, Tex. Drinking-cup. No. 1,296,786; Mar. 11; v. 260; p. 254.



## Alphabetical list of patentees—Continued.

- Fern, Anthony P., Dunkirk, N. Y. Music-leaf turner. No. 1,311,765; July 29; v. 264; p. 823.
- Fern, John, Cincinnati, Ohio. Wippen connection for player-pianos. No. 1,302,647; May 6; v. 262; p. 31.
- Fernald, Benjamin G., New York, and J. L. Moore, assignors to The Kerr Turbine Company, Wellsville, N. Y. Turbine bleeder-valve. No. 1,308,407; July 1; v. 264; p. 73.
- Fernald, Frank E., and H. Y. Nute, Milton, N. H. Inner-sole. No. 1,324,390; Dec. 9; v. 269; p. 265.
- Fernandez, Abel, Washington, D. C. Switch-box. No. 1,304,467; May 20; v. 262; p. 438.
- Fernandez, Abel, Washington, D. C. Automatic cut-out switch. No. 1,314,470; Aug. 26; v. 265; p. 580.
- Fernandez, Abel, Mexico, assignor to J. V. Torres, San Luis Potosi, and A. H. Lopez, Mexico, Mexico. Cartridge-receiving receptacle. No. 1,304,468; May 20; v. 262; p. 439.
- Fernandez, Abel, Mexico, assignor to J. V. Torres, San Luis Potosi, and A. H. Lopez, Mexico, Mexico. Cartridge-check for magazine-rides. No. 1,318,200; Oct. 7; v. 267; p. 103.
- Fernandez, Rogelio G., Cerro, Habana, Cuba. Balloon. No. 1,305,592; June 3; v. 263; p. 70.
- Ferngren, Enoch T., Washington, D. C. Refractory composition. No. 1,324,546; Dec. 9; v. 269; p. 296.
- Fernow, Bernard E., Jr., assignor, by mesne assignments, to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetic clutch. No. 1,325,011; Dec. 16; v. 269; p. 443.
- Feroldi, Enrico, Turin, Italy. Carburetor for explosion-engines. No. 1,307,396; June 24; v. 263; p. 500.
- Feroldi, Enrico, Turin, Italy. Carburetor for explosion-engines. No. 1,314,313; Aug. 26; v. 265; p. 550.
- Feroldi, Enrico, Turin, Italy. Carburetor. No. 1,322,554; Nov. 25; v. 268; p. 580.
- Ferrall, John J. (See Fogg and Ferrall.)
- Ferrari, Edgardo, Rome, N. Pecoraro, Spezia, and A. Guidoni, Rome, Italy, assignors to Societa Anonima Italiana Glo. Ansaldo & C., Cornigliano Ligure, Italy. Means for the protection of ships, both mercantile and Navy ships, against submarine attacks or mines. No. 1,299,697; Apr. 8; v. 261; p. 274.
- Ferree, John W., Salt Lake City, Utah. Holder for writing implements. No. 1,304,171; May 20; v. 262; p. 380.
- Ferrell, Eugene D., Wayzata, Minn. Needle-valve. No. 1,298,317; Mar. 25; v. 260; p. 640.
- Ferrell, Eugene D., Wayzata, Minn. Hydrovaporizer. No. 1,303,187; May 6; v. 262; p. 135.
- Ferrell, Eugene D., Wayzata, Minn. Push-button attachment for steering-posts. No. 1,303,188; May 6; v. 262; p. 135.
- Ferrier, James, Surat, Queensland, Australia. Propeller particularly for use on aeroplanes and other aircraft. No. 1,310,330; July 15; v. 264; p. 493.
- Ferrier, Walter, Wilmington, Del. Nose-forming machine. No. 1,297,819; Mar. 18; v. 260; p. 508.
- Ferris, Henry L. (See Ferris, Howard J. and H. L.)
- Ferris, Howard J., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Pigpen. No. 1,312,242; Aug. 5; v. 265; p. 73.
- Ferris, Howard J., Harvard, Ill., assignor to Hunt, Helm, Ferris & Co., Chicago, Ill. Stanchion. No. 1,314,953; Sept. 2; v. 266; p. 87.
- Ferris, Howard J. and H. L., assignors to Hunt-Helm-Ferris & Company, Harvard, Ill. Hay-carrier. No. 1,291,457; Jan. 14; v. 258; p. 368.
- Ferris, Ralph E. (See Broomall and Ferris.)
- Ferris, Ralph E. (See Hellmuth and Ferris.)
- Ferris, Ralph E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,292,592; Jan. 28; v. 258; p. 695.
- Ferris, Ralph E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,317,283; Sept. 30; v. 266; p. 627.
- Ferris, Ralph E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,317,284; Sept. 30; v. 266; p. 628.
- Ferris, Ralph E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,318,738; Oct. 14; v. 267; p. 267.
- Ferris, Walter. (See Magie and Ferris.)
- Ferris, Walter, Milwaukee, Wis., and W. E. Magie, Evansville, Ind. Hydraulic transmission device. No. 1,308,844; July 8; v. 264; p. 181.
- Ferris, Walter, assignor to Bucyrus Company, South Milwaukee, Wis. Outrigger operating and locking device for locomotive-cranes and the like. No. 1,307,545; June 24; v. 263; p. 527.
- Ferris, Walter, Milwaukee, assignor to Bucyrus Company, South Milwaukee, Wis. Detent. No. 1,296,787; Mar. 11; v. 260; p. 254.
- Ferris, Walton C., assignor to The National Manufacturing Company, Lincoln, Nebr. Steam-cooker. No. 1,311,957; Aug. 5; v. 265; p. 20.
- Ferris, Warren F., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Building fluid-bags. No. 1,297,295; Mar. 11; v. 260; p. 368.
- Ferro, Casimiro, Ansonia, Conn. Self-attaching curtain-bracket. No. 1,325,236; Dec. 16; v. 269; p. 436.
- Ferry, Earl J., King City, Cal. Magnetic brake. No. 1,294,784; Feb. 18; v. 259; p. 489.
- Ferry, Joseph D., Niles, Calif. Fruit-gatherer. No. 1,312,967; Aug. 12; v. 265; p. 243.
- Ferry, Thomas F., St. Louis, Mo. Producing wood-separators. No. 1,312,243; Aug. 5; v. 265; p. 73.
- Fertman, Isidor, New York, and H. Koretzky, Brooklyn, N. Y. Battery-container. No. 1,316,567; Sept. 23; v. 266; p. 458.
- Fertman, Isidor, New York, and H. Koretzky, Brooklyn, N. Y. Battery-container. No. 1,316,568; Sept. 23; v. 266; p. 458.
- Ferzacca, David, Logan, W. Va. Non-refillable bottle. No. 1,300,713; Apr. 15; v. 261; p. 520.
- Fesler, Douglas F., Evanston, Ill. Lubricating apparatus. No. 1,315,484; Sept. 9; v. 266; p. 195.
- Fesler, Milton A., Oakland, Calif., assignor to Fess Rotary Oil Burner Inc., Boston, Mass. Liquid-feed system. No. 1,308,005; June 24; v. 263; p. 612.
- Fess Rotary Oil Burner Inc. (See Fesler, Milton A., assignor.)
- Fessenden, Reginald A., Brookline, Mass. Method of and apparatus for heat insulation. No. 1,301,675; Apr. 22; v. 261; p. 751.
- Fessenden, Reginald A., Brookline, Mass. Submarine signaling. No. 1,311,157; July 29; v. 264; p. 710.
- Fessenden, Reginald A., Brookline, Mass. Apparatus for submarines. No. 1,291,458; Jan. 14; v. 258; p. 368.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Submarine signaling. No. 1,318,739; Oct. 14; v. 267; p. 267.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method of and apparatus for obtaining increased circulation. No. 1,318,740; Oct. 14; v. 267; p. 267.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Detecting and locating ships. No. 1,319,145; Oct. 21; v. 267; p. 371.
- Fessenden, Reginald A., Brookline, and F. H. Leslie, Milton, Mass., assignors to Submarine Signal Company, Portland, Me. Method and apparatus for eliminating undesired vibrations. No. 1,319,521; Oct. 21; v. 267; p. 442.
- Fessler, Charles H., Covington, Pa. Spring-supporting clamp. No. 1,316,226; Sept. 16; v. 266; p. 344.
- Fether, George A., El Dorado, Pa. Rail-joint. No. 1,302,026; Apr. 29; v. 261; p. 850.
- Fether, Simon H., Archbold, Ohio. Hot-box detector for railway-cars. No. 1,296,499; Mar. 4; v. 260; p. 152.
- Fetherolf, Stephen B., Cincinnati, Ohio. Towel-service device and method. No. 1,290,950; Jan. 14; v. 258; p. 252.
- Featherstonhaugh, Edward J. (See Mahar and Featherstonhaugh.)
- Fetter, Edward, Baltimore, Md. Vulcanizing apparatus and process. No. 1,312,029; Aug. 5; v. 265; p. 34.
- Fetz, Werner, New York, N. Y. Photographic-film holder. No. 1,294,079; Feb. 11; v. 259; p. 289.
- Fetzer, William, Springfield, Ill. Disk drill. No. 1,299,160; Apr. 1; v. 261; p. 124.
- Fetzer, William, Springfield, Ill. Pulverizer and roller. No. 1,302,146; Apr. 29; v. 261; p. 872.
- Fetzer, William, Springfield, Ill. Grain-drill. No. 1,314,863; Sept. 2; v. 266; p. 72.
- Feuerholz, George, St. Louis, Mo. Sole-attaching means. No. 1,322,555; Nov. 25; v. 268; p. 580.
- Fewell, Albert E., assignor of one-half to L. F. Bolser, Minneapolis, Minn. Bread-cutting machine. No. 1,317,690; Oct. 7; v. 267; p. 6.
- Fewlass, Thomas H., Detroit, Mich. Pneumatic or air valve for inflating various bodies. No. 1,326,445; Dec. 30; v. 269; p. 765.
- Fewster, Robert H., Dargan, Western Australia, Australia. Lock-nut. No. 1,317,567; Sept. 30; v. 266; p. 682.
- Fey, Frank E., Portland, Oreg. Spring suspension. No. 1,311,061; July 22; v. 264; p. 659.
- Feyes, Andrew, assignor to American Brushwell Company, Pittsburgh, Pa. Washing-machine. No. 1,290,151; Jan. 7; v. 258; p. 33.
- Fiala, Joseph B., assignor to Standard Pneumatic Action Company, New York, N. Y. Player-piano for producing solo effects. No. 1,313,625; Aug. 19; v. 265; p. 385.
- Fibre Company of North America. (See Gillis, Lyle N., assignor.)
- Fichtenbaum, Oscar, Brooklyn, N. Y. Convertible sofa. No. 1,290,152; Jan. 7; v. 258; p. 34.
- Fickes, Edwin S., Pittsburgh, Pa. Producing Hydrofluoric acid. No. 1,316,569; Sept. 23; v. 266; p. 458.
- Fickinger, Presly J., Conneaut, Ohio. Stocking-bridge. No. 1,319,996; Oct. 28; v. 267; p. 554.
- Ficklen, William E., Brooklyn, N. Y. Metallic edge-protector and the like. No. 1,310,331; July 15; v. 264; p. 493.
- Fidelity Brass Manufacturing Company. (See Armstrong, Harry H., assignor.)
- Fidelity Electric Company, The. (See Banzhof, Charles P., assignor.)
- Elechl, Ferdinand, Cherryvale, Kans. Vertical zinc-furnace. No. 1,291,643; Jan. 14; v. 258; p. 412.



- Fiegel, William J., assignor to General Aluminum & Brass Manufacturing Company, Detroit, Mich. Molding-machine. No. 1,314,954; Sept. 2; v. 266; p. 88.
- Field, Allan B. (See Heap and Field.)
- Field, Allan B., Marple, England, and I. L. Griffith, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,291,459; Jan. 14; v. 258; p. 369.
- Field, Alvan, Aline, Okla. Draft-tongue extension. No. 1,297,553; Mar. 18; v. 260; p. 451.
- Field, Edward A., Jr., Grand Rapids, Mich., assignor of one-half to E. A. Field, Sr., Oak Park, Ill. High-compression internal-combustion engine. No. 1,318,006; Oct. 7; v. 267; p. 66.
- Field, George H., et al. (See Eckert, Lewis V., assignor.)
- Field, Herbert E., Wheeling, W. Va. Flexible pipe-joint. No. 1,300,945; Apr. 15; v. 261; p. 570.
- Field, Jacob W., Peoria, Ill. Ticket-vender. No. 1,303,278; May 13; v. 262; p. 180.
- Field, Jessie B., Portland, Oreg. Combination-table. No. 1,320,215; Oct. 28; v. 267; p. 594.
- Field, John F., Owosso, Mich. Foundation for truck-bodies. No. 1,322,887; Nov. 25; v. 268; p. 642.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company Incorporated, New York, N. Y. Impulse-transmitter. No. 1,306,054; June 10; v. 263; p. 185.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,324,344; Dec. 9; v. 269; p. 256.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,325,192; Dec. 16; v. 269; p. 478.
- Field, L. Eugene. (See Evans, Fred, assignor.)
- Field, Oscar S. (See Kendall and Field.)
- Field, Martin, and H. A. Schlek, Chicago, Ill. Life-saving apparatus. No. 1,303,872; May 20; v. 262; p. 326.
- Field, Millard F., and C. D. Lanning, assignors to American Warp Drawing Machine Company, Boston, Mass. Warp-uniting mechanism. No. 1,305,705; June 3; v. 263; p. 90.
- Field, Samuel B., Holbrook, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Moisture proof adhesive compound. No. 1,307,247; June 17; v. 263; p. 439.
- Field, Thomas H., Archbold, Ohio. Stock centerer and shuck. No. 1,308,176; July 1; v. 264; p. 31.
- Fielder, Reuben E., New York, N. Y., assignor to Fifth Avenue Coach Company. Axle-drive equipment for motor-vehicles. No. 1,291,816; Jan. 21; v. 258; p. 484.
- Fieldner, Arno C., Pittsburgh, Pa. Method and apparatus for testing canisters. No. 1,307,813; June 24; v. 263; p. 576.
- Fields, Carl B., Vallejo, Calif. Caliper. No. 1,325,631; Dec. 23; v. 269; p. 576.
- Fields, Wayne, London, Ky. Condiment-receptacle for knives, forks, and the like. No. 1,317,691; Oct. 7; v. 267; p. 6.
- Fields, William J. (See Gilbert, Battie B., assignor.)
- Fielding, Alfred E. (See Sugden and Fielding.)
- Piertz, Otto F. (See Abele, Hermann, assignor.)
- Fiese, Jesse T., assignor to Lisenby Mfg. Co., Fresno, Calif. Tire-pump. No. 1,301,242; Apr. 22; v. 261; p. 668.
- Fieux, Ernest D., New York, N. Y., and H. S. Wheller, Rahway, N. J., assignors to L. J. Wing Manufacturing Company. Air-propeller. No. 1,304,671; May 27; v. 262; p. 515.
- Fier, Isadore, Brooklyn, N. Y., assignor of one-half to H. Fire, Paterson, N. J. Window lock and alarm. No. 1,297,672; Mar. 18; v. 260; p. 476.
- Fife, Harry B. (See Wells and Fife.)
- Fife, Ikley C., Toledo, Ohio. Garment-fastener. No. 1,294,889; Feb. 18; v. 259; p. 513.
- Fifield, Albert F., Newark, N. J., assignor to The Singer Manufacturing Company. Stitch-forming mechanism for chain-stitch sewing-machines. No. 1,316,022; Sept. 16; v. 266; p. 306.
- Fifth Avenue Coach Company. (See Fielder, Reuben E., assignor.)
- Fifth Avenue Corset Company. (See Lernowitz, Joseph, assignor.)
- Figour, Maurice, assignor to Etablissements Continsouza, Societe Anonyme, Paris, France. Cinematographic apparatus. No. 1,325,283; Dec. 16; v. 269; p. 495.
- Figuerola, Peter P., New York, N. Y. Cuspidor. No. 1,315,221; Sept. 9; v. 266; p. 147.
- Figuerola, Siegfried, Merida, Mexico. Magnifying and projecting apparatus. No. 1,315,105; Sept. 2; v. 266; p. 115.
- Filbey, John W., assignor to Wrightsville Hardware Company, Wrightsville, Pa. Damper for stovepipes and the like. No. 1,325,237; Dec. 16; v. 269; p. 486.
- Files Engineering Company. (See Thatcher, George H., Jr., assignor.)
- Flicky, August A., San Francisco, Calif. Automobile-starter. No. 1,310,009; July 15; v. 264; p. 435.
- Filkins, Charles D., Schenectady, N. Y., assignor to General Electric Company. Clamp, binding-post, or the like. No. 1,297,133; Mar. 11; v. 260; p. 333.
- Fillman, William H., Gracedale, Pa. Headlight for automobiles or the like. No. 1,318,440; Oct. 14; v. 267; p. 210.
- Filippi, Antoine P., Paris, France. Ship. No. 1,299,161; Apr. 1; v. 261; p. 124.
- Filmer, George B., Moose Jaw, Saskatchewan, Canada. Demountable wheel-rim. No. 1,297,338; Mar. 18; v. 260; p. 406.
- Fimiani, Giovanni, Cleveland, Ohio. Shield. No. 1,297,455; Mar. 18; v. 260; p. 430.
- Finance & Trading Corporation of New York. (See Fry, Walter L., assignor.)
- Finance & Trading Corporation of New York (See Maise, Herman C., assignor.)
- Finberg, David H., St. Louis, Mo. Shoe-heel. No. 1,296,939; Mar. 11; v. 260; p. 290.
- Finch, Clark E., West Palm Beach, Fla. Can-closure. No. 1,298,683; Apr. 1; v. 261; p. 14.
- Finch, Clifton R., Newark, N. J. Framework for display publicity by machine. No. 1,307,293; June 17; v. 263; p. 448.
- Finch, Edward B., assignor to Autopower Company, Detroit, Mich. Power mechanism. No. 1,315,106; Sept. 2; v. 266; p. 116.
- Finch, James A., et al. (See Keith, Ephraim J., assignor.)
- Finch, Leon S. (See Bierbauer and Finch.)
- Finch, Leon S., Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Producing ammonia from alkali ferrocyanid. No. 1,295,293; Feb. 25; v. 259; p. 628.
- Finch, Leon S., Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Concentrating acetic anhydrid. No. 1,311,158; July 29; v. 264; p. 710.
- Finch, Leon S., Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making cyanogen compounds. No. 1,312,842; Aug. 12; v. 265; p. 219.
- Finch, Maurice S. (See Young and Finch.)
- Findeisen & Kropf Manufacturing Company. (See Raynold, Charles L., assignor.)
- Fine, Jacob, Louisville, Ky. Label-holder. No. 1,316,779; Sept. 23; v. 266; p. 497.
- Finelli, Ernesto, New York, N. Y. Fender for vehicles. No. 1,326,487; Dec. 30; v. 269; p. 772.
- Fingler, Carl, and N. O. Sturtevant, assignors to N. Barstow Company, Providence, R. I. Link-mesh machine. No. 1,290,951; Jan. 14; v. 258; p. 252.
- Fink, Arthur F., and F. O. Hill, North Platte, Nebr. Sleeping-bag. No. 1,315,294; Sept. 9; v. 266; p. 160.
- Fink, Charles B., East Syracuse, N. Y. Car-door lock. No. 1,311,598; July 29; v. 264; p. 792.
- Fink, Charles F. (See Trimble and Fink.)
- Fink, Jacob W., Shamokin, Pa. Antiskidding device. No. 1,295,294; Feb. 25; v. 259; p. 628.
- Fink, Louis, Philadelphia, Pa. Bathing-chair. No. 1,292,593; Jan. 28; v. 258; p. 696.
- Finkel, Charles, and I. Cohen, Seattle, Wash. Streetsweeper. No. 1,308,004; June 24; v. 263; p. 612.
- Finkelstein, Alexander, Chicago, Ill. Dumping-truck. No. 1,298,028; Mar. 25; v. 260; p. 578.
- Finkelstein, Reuben, et al. (See Haskins, Butler J., assignor.)
- Finkle, Reuben J., Great Falls, Mont. Bundle or sheaf loader. No. 1,315,713; Sept. 9; v. 266; p. 234.
- Finlay, Herbert E., Detroit, and F. L. Fangborn, Royal Oak, assignors to Burroughs Adding Machine Company, Detroit, Mich. Cleaning metal. No. 1,290,952; Jan. 14; v. 258; p. 252.
- Finlay, John S., Great Falls, assignor to Anaconda Copper Mining Company, Anaconda, Mont. Electrode-rack. No. 1,311,958; Aug. 5; v. 265; p. 20.
- Finlayson, Alexander W., Detroit, Mich. Forming cores for hollow castings. No. 1,303,785; May 13; v. 262; p. 272.
- Finlayson, Alexander W., Detroit, Mich. Forming radiator tubes. No. 1,304,551; May 27; v. 262; p. 493.
- Finlayson, Alexander W., Detroit, Mich. Radiator construction. No. 1,311,599; July 29; v. 264; p. 792.
- Finlayson, Thomas, Oakland, Calif. Casement-adjuster. No. 1,326,042; Dec. 23; v. 269; p. 652.
- Finley, Charles A., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration-detector. No. 1,324,959; Dec. 16; v. 269; p. 434.
- Finley, Charles W., Battle Creek, Mich. Electrical-wiring connector. No. 1,291,460; Jan. 14; v. 258; p. 369.
- Finley, Charles W., Battle Creek, Mich. Electrical connector. No. 1,296,061; Mar. 4; v. 260; p. 56.
- Finley, Charles W., Battle Creek, Mich. Conduit-bushing. No. 1,312,901; Aug. 12; v. 265; p. 230.
- Finley, Frank W. A. (See Leonard, Roy E., assignor.)
- Finley, Max S., Indianapolis, Ind. Vehicle-top. No. 1,296,062; Mar. 4; v. 260; p. 56.
- Finley, Thomas M., West Plains, Mo. Gyrotory stabilizer and lifting-propeller. No. 1,291,817; Jan. 21; v. 258; p. 484.
- Finn, Oscar L., Scranton, Pa. Display-case. No. 1,326,718; Dec. 30; v. 269; p. 816.
- Finnegan, Ambrose J., Fayette, Iowa. Wind-shield hood. No. 1,301,115; Apr. 22; v. 261; p. 642.
- Finnegan, Ambrose J., Castalia, Iowa. Fender. No. 1,313,282; Aug. 19; v. 265; p. 321.
- Finnegan, Eugene E., Chicago, Ill.; assignor to Continental Can Company, Incorporated, Syracuse, N. Y. Cover-opener for receptacles. No. 1,308,627; July 1; v. 264; p. 118.



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- Finnegan, John D., Newcomb, N. Y. Crate. No. 1,295,723; Feb. 25; v. 259; p. 727.
- Finnegan, John E., and P. J. McCarthy, Providence, R. I. Casket. No. 1,310,860; July 22; v. 264; p. 622.
- Finnegan, William T., Detroit, Mich. Automatic window-lock. No. 1,314,794; Sept. 2; v. 266; p. 60.
- Finney, Elizabeth H., et al. (See Malone, Leon S., assignor.)
- Finney, Ellen M., Kansas City, Mo. Animal-trap. No. 1,295,143; Feb. 25; v. 259; p. 594.
- Finney, Ellen M., Kansas City, Kans. Coaster. No. 1,313,081; Aug. 12; v. 265; p. 266.
- Finney, Frank, et al. (See Tankersley, William, assignor.)
- Finnigan, George P., Wilton-on-James, near Richmond, Va. System of train control. No. 1,302,345; Apr. 29; v. 261; p. 910.
- Finnigan, George P., Wilton-on-James, near Richmond, Va. System of automatic speed control. No. 1,302,346; Apr. 29; v. 261; p. 910.
- Finnigan, George P., Wilton-on-James, Va. System of automatic train control. No. 1,305,348; June 3; v. 263; p. 22.
- Finnigan, George P., Philadelphia, Pa., assignor to G. A. Holden, New York, N. Y. System of automatic train control. No. 1,299,446; Apr. 8; v. 261; p. 217.
- Finseth, Albert C., assignor of one-half to G. E. Robinson, Eugene, Oreg. Threshing-harrow. No. 1,315,918; Sept. 9; v. 266; p. 274.
- Finstad, Christian M., Brooklyn, N. Y. Compasses. No. 1,296,377; Mar. 4; v. 260; p. 127.
- Finster, Robert, and P. Wilson, assignors to Hammernill Paper Company, Erie, Pa. Paper-sorting machine. No. 1,302,466; Apr. 29; v. 261; p. 934.
- Finstone, Marx. (See Plancher, Lillian, assignor.)
- Fiore, Letterio, New York, N. Y. Combination-garment. No. 1,311,600; July 29; v. 264; p. 793.
- Flori, John M., Poughkeepsie, N. Y. Carpenter's tool. No. 1,293,394; Feb. 4; v. 259; p. 98.
- Fire, Hiram. (See Fier, Isidore, assignor.)
- Fire Protection Insurance Securities Company. (See Teague, Walter O., assignor.)
- Fire Protection Securities Company. (See Clark, Ezra E., assignor.)
- Fire Top Manufacturing Company. (See Simon, Maurice, assignor.)
- Firebaugh, William H., Jr., Berkeley, Cal. Jack. No. 1,295,468; Feb. 25; v. 259; p. 668.
- Firebaugh, William H., Jr., Berkeley, Cal. Lifting-jack. No. 1,295,469; Feb. 25; v. 259; p. 668.
- Firestone, Herbert L., Akron, Ohio. Vehicle-wheel. No. 1,310,746; July 22; v. 264; p. 601.
- Firestone Tire & Rubber Company The. (See Hower, John F., assignor.)
- Firestone Tire and Rubber Company, The. (See Bastian, Herbert W., assignor.)
- Firestone Tire and Rubber Company, The. (See Putt, Edward D., assignor.)
- Firestone Tire & Rubber Company, The. (See Smith, John P., assignor.)
- Firestone Tire and Rubber Company, The. (See Steele, Charles W., assignor.)
- Firestone Tire & Rubber Company, The. (See Stevens, William C., assignor.)
- Firestone Tire & Rubber Company, The. (See Tuttle, John C., assignor.)
- Firestone Tire and Rubber Company, The. (See Young and Benner, assignors.)
- Flex Extinguisher Company, The. (See Dunbar, Mahlor L., assignor.)
- Firm Exploitatie Maatschappij voor Textielindustrie Auerbach en Co. (See Auerbach, Max, assignor.)
- Firm of Pito A.-G. (See Knüsil, Emile, assignor.)
- Firma Adolphe Saurer. (See Schlatter and Segin.)
- Firma, Adolphe Saurer. (See Wyss, Walter, assignor.)
- Firme, Theodore, Tolleston, Ind. Ice-breaker. No. 1,316,150; Sept. 16; v. 266; p. 330.
- Flrpo, John P., Stockton, Calif. Double-speed wrench. No. 1,304,756; May 27; v. 262; p. 531.
- Flrner, Edmund W. and T. River Falls, Wis. Manifold heat-regulator. No. 1,290,953; Jan. 14; v. 258; p. 252.
- Flrner, Theodore. (See Firner, Edmund W. and T.)
- First Trust Company, executor, et al. (See Bean, Irving M.)
- First Trust and Savings Company, The, et al., trustees (See Sommer, William H., assignor.)
- Firster, Charles D., Akron, Ohio. Wrench attachment. No. 1,307,193; June 17; v. 263; p. 429.
- Firth, Edward T., Richmond, Ind. Drying-machine. No. 1,310,824; July 22; v. 264; p. 616.
- Firth, William C., East Cleveland, Ohio. Holding device. No. 1,296,275; Mar. 4; v. 260; p. 105.
- Fischbein, George, New York, and L. Newman, Bronx, N. Y. Hand-fan. No. 1,314,314; Aug. 26; v. 265; p. 550.
- Fischer, Albert C., Kansas City, Mo. Revolvable engine. No. 1,301,547; Apr. 22; v. 261; p. 726.
- Fischer, Albert C., Kansas City, Mo. Roofing-cleat. No. 1,322,888; Nov. 25; v. 268; p. 642.
- Fischer, Arthur I. (See Bowler and Fischer.)
- Fischer, Arthur I. (See Yeiser and Fischer.)
- Fischer, Arthur I., assignor to Gluber Brass Manufacturing Company, Cleveland, Ohio. Combined check and compression valve. No. 1,311,115; July 22; v. 264; p. 669.
- Fischer Can Company, The. (See Gilbert and Vander Hoof, assignors.)
- Fischer, Charles. (See Smith, Charles G., assignor.)
- Fischer, Charles D. (See Dumarest and Fischer.)
- Fischer, Charles E., West Harrison, Ind., assignor to The Campbell Bros. Manufacturing Company, Harrison, Ohio. Planter. No. 1,291,818; Jan. 21; v. 258; p. 484.
- Fischer, Charles H., assignor, by mesne assignments, to The Corcoran-Victor Company, Cincinnati, Ohio. Electric connector. No. 1,294,644; Feb. 18; v. 259; p. 456.
- Fischer, Frank F., Hayes Center, Nebr. Opera-chair. No. 1,290,532; Jan. 7; v. 258; p. 125.
- Fischer, Fred A., et al. (See Voigtlander, Maximilian G., assignor.)
- Fischer, Fred G., Vermilion, Ohio. Cannon. No. 1,320,041; Oct. 28; v. 267; p. 563.
- Fischer, Hermann O., assignor to Package Machinery Company, Springfield, Mass. Paper-feeding mechanism. No. 1,298,684; Apr. 1; v. 261; p. 14.
- Fischer, Hermann O., assignor to Package Machinery Company, Springfield, Mass. Paper-feeding mechanism. No. 1,298,685; Apr. 1; v. 261; p. 14.
- Fischer, Hermann O., assignor to Package Machinery Company, Springfield, Mass. Labeling-machine. No. 1,311,643; July 29; v. 264; p. 800.
- Fischer, Jacob. (See Brandenstein and Fischer.)
- Fischer, Joseph L., Wauwatosa, Wis. Indicator. No. 1,318,369; Oct. 14; v. 267; p. 196.
- Fischer, Joseph H., Chicago, Ill. Oxygen-cell. No. 1,322,417; Nov. 18; v. 268; p. 502.
- Fischer, Leigh H., McCordsville, Ind. Piston-pin lock. No. 1,293,068; Feb. 4; v. 259; p. 23.
- Fischer, Louis G., Camp Hill, Pa. Rotary engine. No. 1,311,858; July 29; v. 264; p. 840.
- Fischer, Moritz B., Chicago, Ill. Circuit-closer for signals for automobiles. No. 1,296,276; Mar. 4; v. 260; p. 105.
- Fischer, Paolo, Chicago, Ill. Inclination-indicator. No. 1,314,258; Aug. 26; v. 265; p. 539.
- Fischer, Peter, et al. (See Lamar, Alexis L., assignor.)
- Fischer and Pruefer. (See Pruefer, Walter H., assignor.)
- Fischer, Wenzel. (See Clements and Fischer.)
- Fischer, William, assignor of one-half to L. Blumenstein, New Richmond, Ohio. Knitting-machine. No. 1,309,124; July 8; v. 264; p. 234.
- Fischer, William C., New York, N. Y. Sadiron. No. 1,316,291; Sept. 16; v. 266; p. 357.
- Fischer, William F. (See Anderson, Gilbert V., assignor.)
- Fischer, William G., Cincinnati, Ohio. Flue-top. No. 1,297,134; Mar. 11; v. 260; p. 333.
- Fischrupp, George, Chicago, Ill. Folding bed. No. 1,306,756; June 17; v. 263; p. 350.
- Fish, Albert E., assignor to G. D. Harrington, Denver, Colo. Concentrator-table. No. 1,319,383; Oct. 21; v. 267; p. 415.
- Fish, Cassius M., Napoleon, Ohio. Alarm-gage. No. 1,319,146; Oct. 21; v. 267; p. 37.
- Fish, Clarence W., Climbing Hill, Iowa. Cultivator. No. 1,325,149; Dec. 16; v. 269; p. 470.
- Fish, George L., assignor to D. E. C. Apple, Modesto, Calif. Pump. No. 1,322,236; Nov. 18; v. 268; p. 468.
- Fish, Gilbert D. (See Stanton and Fish.)
- Fish, Gilbert D., assignor to E. L. Stanton, New York, N. Y. Dental surveying apparatus. No. 1,296,643; Mar. 11; v. 260; p. 221.
- Fish, Harry E., Chicago, Ill. Yarn-reclaiming machine. No. 1,302,906; May 6; v. 262; p. 82.
- Fish, Ulysses G., Stroudsburg, Pa. Curtain and shade bracket. No. 1,290,730; Jan. 7; v. 258; p. 174.
- Fishback, Charles F., Los Angeles, Calif. Hinge. No. 1,309,883; July 15; v. 264; p. 412.
- Fishback, Davis E., Orlando, Fla. Agitator. No. 1,318,654; Oct. 14; v. 267; p. 251.
- Fishbaugh, Fred A., London, Ohio. Corn-husking machine. No. 1,315,714; Sept. 9; v. 266; p. 235.
- Fishburne, George R. (See Lamb, John C., assignor.)
- Fisher, Abraham, New York, N. Y. Double cuff. No. 1,305,889; June 3; v. 263; p. 126.
- Fisher, Alva J., assignor to Hurley Machine Company, Chicago, Ill. Yielding shaft-coupling. No. 1,323,850; Dec. 2; v. 269; p. 118.
- Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Dish-washing machine. No. 1,295,470; Feb. 25; v. 259; p. 668.
- Fisher, Artemas W., South Bend, Ind. Carbureter. No. 1,319,522; Oct. 21; v. 267; p. 442.
- Fisher, Austin C., assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. No. 1,308,985; July 8; v. 264; p. 208.
- Fisher, Bernard C., Jersey City Heights, N. J. Spring-wheel. No. 1,310,285; July 15; v. 264; p. 485.
- Fisher Body Corporation. (See Allmand, John T., assignor.)
- Fisher, Charles W., Springfield, Ohio. Lifting-jack. No. 1,305,455; June 3; v. 263; p. 43.
- Fisher, Charles W., Springfield, Ohio. Carbureter. No. 1,317,011; Sept. 23; v. 266; p. 540.



- Fisher-Chase Company, The. (See Fisher, Harry F., assignor.)
- Fisher, Clarence G., Rochester, N. Y. Paper-fastener. No. 1,303,279; May 13; v. 262; p. 180.
- Fisher, Clayton A., Berwick, Pa. Fountain-brush. No. 1,292,288; Jan. 21; v. 258; p. 600.
- Fisher, Dudley T., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coal-mining apparatus. No. 1,321,427; Nov. 11; v. 268; p. 266.
- Fisher, Edwin H., Pittsburgh, Pa., assignor to Scientific Materials Company. Brinell hardness-testing machine. No. 1,320,748; Nov. 4; v. 268; p. 73.
- Fisher, Ernest F., Philadelphia, Pa. Centrifugal pump. No. 1,320,216; Oct. 28; v. 267; p. 594.
- Fisher, Francis W., Buhl, Idaho, and J. C. Olsen, Salt Lake City, Utah. Corrugator. No. 1,314,315; Aug. 26; v. 265; p. 550.
- Fisher, Frank E., Detroit, Mich. Starter for internal-combustion engines. No. 1,295,144; Feb. 25; v. 259; p. 594.
- Fisher, Frank M. (See Wallace, Harry E., assignor.)
- Fisher, Fred, Ironton, Mo. Armored pneumatic tire. No. 1,315,598; Sept. 9; v. 266; p. 215.
- Fisher, George L., assignor to Marathon Company, S. M. Einstein, proprietor, Attleboro, Mass. Cigarette-case. No. 1,299,162; Apr. 1; v. 261; p. 124.
- Fisher Governor Co., The. (See Fisher, Jasper H., assignor.)
- Fisher, Guy B., Houston, Tex. Tractor. No. 1,310,653; July 22; v. 264; p. 584.
- Fisher, Harry F., assignor to The Fisher-Chase Company, Columbus, Ohio. Fuse-box. No. 1,318,655; Oct. 14; v. 267; p. 251.
- Fisher, Harry L., New York, N. Y. Absorption-bottle. No. 1,313,626; Aug. 19; v. 265; p. 386.
- Fisher, Harvey L., Chicago, Ill. Driving-gear for automobiles. No. 1,326,857; Dec. 30; v. 269; p. 843.
- Fisher, Harvey L., assignor to The Donaldson & Fisher Company, Chicago, Ill. Friction transmission mechanism. No. 1,326,189; Dec. 30; v. 269; p. 716.
- Fisher, Henry F., Vancouver, British Columbia, Canada. Violin-inspecting device. No. 1,306,953; June 17; v. 263; p. 386.
- Fisher, Henry L., Hamilton, Ontario, Canada. Lubricating system. No. 1,315,919; Sept. 9; v. 266; p. 274.
- Fisher, Henry W., Bridgeport, Conn. Combined grease and oil gun. No. 1,319,523; Oct. 21; v. 267; p. 442.
- Fisher, Herbert P., Los Angeles, Calif. Automatic water-heater. No. 1,312,724; Aug. 12; v. 265; p. 195.
- Fisher, J. W., Jr. See Reynolds, Lynus C., assignor.)
- Fisher, James B., assignor to Waukesha Motor Company, Waukesha, Wis. Breather-tube and cap therefor. No. 1,298,922; Apr. 1; v. 261; p. 70.
- Fisher, James B., assignor to Waukesha Motor Company, Waukesha, Wis. Governor for internal-combustion engines. No. 1,304,672; May 27; v. 262; p. 515.
- Fisher, Jasper H., assignor to The Fisher Governor Co., Marshalltown, Iowa. Exhaust-head. No. 1,292,450; Jan. 28; v. 258; p. 660.
- Fisher, John A., Homestead borough, Pa. Amusement device. No. 1,295,145; Feb. 25; v. 259; p. 594.
- Fisher, John A., assignor to Imperial Player Roll Company, Chicago, Ill. Perforated sheet. No. 1,310,238; July 15; v. 264; p. 476.
- Fisher, Joseph O. (See Mackay, William A., assignor.)
- Fisher, Joseph O., U. S. Navy. Positively-acting clutch. No. 1,315,715; Sept. 9; v. 266; p. 235.
- Fisher, Joseph O., Washington, D. C. Fuel-oil burner for boilers. No. 1,326,488; Dec. 30; v. 269; p. 773.
- Fisher, Julian R. (See Gragg, Benjamin F., assignor.)
- Fisher, Raymond, Philadelphia, Pa., assignor, by mesne assignments, to Hemphill Manufacturing Company, Pawtucket, R. I. Knitting-machine. No. 1,293,743; Feb. 11; v. 259; p. 209.
- Fisher, Richard J. (See Willits and Fisher.)
- Fisher, Sidney C., Medford, Mass. Fire-door. No. 1,308,006; June 24; v. 263; p. 612.
- Fisher, Stanley L., Saybrook, Conn., assignor to The Pratt Read Player Action Company, Deep River, Conn. Pneumatic valve-action. No. 1,307,350; June 24; v. 263; p. 492.
- Fisher, Thomas M., Bastrop, Tex. Cattle-guard. No. 1,320,217; Oct. 28; v. 267; p. 595.
- Fisher, Wager, et al. (See Cherry, Edward E., assignor.)
- Fisher, William E., Toronto, Ontario, Canada. Eggcrate. No. 1,301,826; Apr. 29; v. 261; p. 811.
- Fisher, William R., Bartlesville, Okla. Internal-combustion-engine starter. No. 1,321,199; Nov. 11; v. 268; p. 222.
- Fishleigh, Theodore, Oshawa, Ontario, Canada. Player-piano. No. 1,319,326; Oct. 21; v. 267; p. 405.
- Fisk, Gustaf L., Harrisburg, Pa. Treating metal. No. 1,312,474; Aug. 5; v. 265; p. 117.
- Fisk, Henry M., deceased, Chicago, Ill.; N. A. Fisk, administratrix. Vehicle rim and tire. No. 1,312,506; Aug. 5; v. 265; p. 123.
- Fisk, Nellie A., administratrix. (See Fisk, Henry M.)
- Fisk Rubber Company, The. (See Jameson, William, assignor.)
- Fisk Rubber Company, The. (See Ferris, Warren F., assignor.)
- Fisk Rubber Company, The. (See Hazeltine, Reginald, assignor.)
- Fisk Rubber Company, The. (See Lewis, George H., assignor.)
- Fisk Rubber Company, The. (See Little, Thomas P., assignor.)
- Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
- Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
- Fisk Rubber Company, The. (See Pierson, Louis B., assignor.)
- Fiske, Bradley A., U. S. Navy. Apparatus for localizing submerged submarines. No. 1,293,744; Feb. 11; v. 259; p. 209.
- Fiske, Jonathan P. B., New York, N. Y. Wall construction and channel-brick therefor. No. 1,304,552; May 27; v. 262; p. 493.
- Fisker, Peder A., Copenhagen, Denmark. Regulating device for cycles. No. 1,317,081; Sept. 23; v. 266; p. 553.
- Fisker, Peder A., Copenhagen, Denmark. Motorcycle. No. 1,324,242; Dec. 9; v. 269; p. 236.
- Fiss, William S., Macon, Ga. Sterilizer. No. 1,295,146; Feb. 25; v. 259; p. 594.
- Fitch, Asba B., Chicago, Ill. Holder for conductors' checks or tickets. No. 1,321,815; Nov. 18; v. 268; p. 390.
- Fitch, Benjamin C., Detroit, Mich. Steering-wheel and making same. No. 1,311,684; July 29; v. 264; p. 808.
- Fitch, Benjamin F., Evanston, Ill., assignor to The Motor Terminals Company, Cleveland, Ohio. Means for transferring freight to and from electric lines. No. 1,310,986; July 22; v. 264; p. 645.
- Fitch, John W., assignor to The Racine Engine & Machinery Co., Racine, Wis. Forming-machine. No. 1,303,189; May 6; v. 262; p. 135.
- Fitch, John W., assignor to Racine Engine & Machinery Co., Racine, Wis. Shaking discharge mechanism. No. 1,324,735; Dec. 9; v. 269; p. 330.
- Fitch, Maxwell B., Corona, Calif. Portable and knock-down storage-bin. No. 1,311,116; July 22; v. 264; p. 669.
- Fitch, William H. (See Perkins and Fitch.)
- Fitch, William H., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Hanger for flexible coverings for doorways, &c. No. 1,307,440; June 24; v. 263; p. 508.
- Fitts, James L. (See Serrell, John A., assignor.)
- Fitz-Empire Double Pivot Last Co. (See Buck, Frank S., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Whipple, Leland B., assignor.)
- Fitz Gerald, Arthur G., Winchester, Mass. Indicating device for motor-vehicles. No. 1,320,218; Oct. 28; v. 267; p. 595.
- Fitz Gerald, John M., Oak Park, Ill., assignor to Asbestos Protected Metal Company, Pittsburgh, Pa. Conduit. No. 1,306,142; June 10; v. 263; p. 202.
- Fitz Gerald, Walter H., Brooklyn, N. Y. Invalid-bed. No. 1,300,364; Apr. 15; v. 261; p. 447.
- Fitz Gerald, William H., Hartford, Conn. Therapeutic device. No. 1,315,825; Sept. 9; v. 266; p. 255.
- Fitz Gibbon, Arthur L., Washington, D. C. Traction-wheel. No. 1,323,746; Dec. 2; v. 269; p. 98.
- Fitz Power, Richard, Doveridge, England. Model artillery-range for instructional purposes. No. 1,296,426; Mar. 4; v. 260; p. 137.
- Fitz Power, Richard, Doveridge, England. Aerial observation instrument. No. 1,324,519; Dec. 9; v. 269; p. 290.
- Fitzgerald, Fred. (See Jewett and Fitzgerald.)
- Fitzgerald, Jeremiah C., assignor to The Fitzgerald Manufacturing Company, Kilbourn, Wis. Shaft-hanger. No. 1,291,461; Jan. 14; v. 258; p. 369.
- Fitzgerald, John H., Rocky Ford, Colo. Portable hold-up dam. No. 1,318,656; Oct. 14; v. 267; p. 251.
- Fitzgerald, John J., Los Angeles, Calif. Reflecting signal or advertising medium. No. 1,302,782; May 6; v. 262; p. 57.
- Fitzgerald, John J., Los Angeles, and A. H. Barnes, Glendale, Calif. Reflecting-signal or advertising medium. No. 1,315,485; Sept. 9; v. 266; p. 195.
- Fitzgerald, John W., assignor to L. A. Young Industries, Inc., Detroit, Mich. Cushion-spring. No. 1,292,745; Jan. 28; v. 258; p. 731.
- Fitzgerald, John W., assignor to L. A. Young Industries, Inc., Detroit, Mich. Power-transmission device. No. 1,302,147; Apr. 29; v. 261; p. 872.
- Fitzgerald Manufacturing Company, The. (See Fitzgerald, Jeremiah C., assignor.)
- Fitzgerald, Richard, Pontiac, Mich. Support. No. 1,297,820; Mar. 18; v. 260; p. 508.
- Fitzgerald, Thomas W., New York, N. Y. Container-cover. No. 1,301,676; Apr. 22; v. 261; p. 751.
- Fitzgerald, Victor H., Portland, Oreg. Bolt-puller. No. 1,305,083; May 27; v. 262; p. 592.
- Fitzgerald, William, Memphis, Tenn. Dish-washer. No. 1,299,698; Apr. 8; v. 261; p. 274.



## Alphabetical list of patentees—Continued.

- Fitzpatrick, Alfred, Toronto, Ontario, Canada. Land-clearing machine. No. 1,319,058; Oct. 21; v. 267; p. 353.
- Fitzpatrick, Clarence E., Bridgeport, Conn. Corset-spring. No. 1,317,622; Sept. 30; v. 266; p. 693.
- Fitzpatrick, Edmund D., *et al.* (See Dunn, Edmund L., assignor.)
- Fitzpatrick, John, and L. T. Stephens, assignors to The Carborundum Company, Niagara Falls, N. Y. Electric furnace. No. 1,313,985; Aug. 26; v. 265; p. 487.
- Fitzpatrick, John A. (See Phillips, Elwood C., assignor.)
- Fitzpatrick, Joseph, Douglas, Ariz. Wire-tapper. No. 1,290,153; Jan. 7; v. 258; p. 34.
- Fitzpatrick, Joseph, San Antonio, Tex. Nut-lock. No. 1,315,107; Sept. 2; v. 266; p. 116.
- Fitzpatrick, William T., Waterloo, Iowa, assignor to The Evans Dollar Pen Company. Cap-clip for fountain-pens. No. 1,310,235; July 15; v. 264; p. 476.
- Fitzsimmons, James, assignor of one-half to H. W. Roeling, New Orleans, La. Cardboard box. No. 1,321,727; Nov. 11; v. 268; p. 322.
- Fitzsimmons, Osborne, Minneapolis, Minn. Attachment for supporting and carrying bottles. No. 1,324,015; Dec. 2; v. 269; p. 149.
- Fix, Frank C., Cincinnati, Ohio, assignor, by mesne assignments, to Armstrong Cork Company. Machine for preparing soles. No. 1,313,682; Aug. 19; v. 265; p. 395.
- Fjarli, Jacob, Tunbridge, N. D. Motor-sled. No. 1,292,393; Jan. 21; v. 258; p. 625.
- Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Process of and means for grinding the curved superficies of conical rollers. No. 1,298,486; Mar. 25; v. 260; p. 676.
- Flaecher, Franz, and B. Reuter, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Extractive product from the hypophysis gland. No. 1,296,063; Mar. 4; v. 260; p. 57.
- Flaecher, Franz, and B. Reuter, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Salts of the extractive product from the hypophysis gland. No. 1,296,064; Mar. 4; v. 260; p. 57.
- Flagg, Ernest, New York, N. Y. Game. No. 1,295,878; Mar. 4; v. 260; p. 13.
- Flagg, Isaac J., Cambridge, Mass. Electric-light fixture for music-stands. No. 1,317,692; Oct. 7; v. 267; p. 6.
- Flagge, Philipp F., Milwaukee, Wis. Metal roofing-cap. No. 1,303,050; May 6; v. 262; p. 109.
- Flagge, Philipp F., Milwaukee, assignor to Milwaukee Corrugating Company, Greenfield, Wis. Sheet-metal-pipe joint. No. 1,295,295; Feb. 25; v. 259; p. 628.
- Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Anesthesia ether and making the same. No. 1,312,475; Aug. 5; v. 265; p. 117.
- Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Pyroxilin solvent and composition containing the same. No. 1,321,611; Nov. 11; v. 268; p. 300.
- Flaherty, Edmund M., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Pyroxilin solvent and composition containing same. No. 1,323,624; Dec. 2; v. 269; p. 75.
- Flahive, John A. (See McMurtrie, Thomas A., assignor.)
- Flahive, John A., Los Angeles, Calif. Tile construction. No. 1,309,064; July 8; v. 264; p. 223.
- Flair, Louis H., Marshall, Mo. Work-bench. No. 1,295,463; Feb. 25; v. 259; p. 667.
- Flak, Peter A., Brooklyn, assignor to The Identigraph Company, Inc., New York, N. Y. Finger-print table. No. 1,290,154; Jan. 7; v. 258; p. 34.
- Flamand, Poül, assignor to P. Evans, Philadelphia, Pa. Link for sprinklers. No. 1,292,746; Jan. 28; v. 258; p. 731.
- Flammang, John, assignor to Inland Machine Works, St. Louis, Mo. Making piston-rings. No. 1,295,147; Feb. 25; v. 259; p. 594.
- Flanagan, Edward, Philadelphia, Pa. Smoke-stick. No. 1,320,219; Oct. 28; v. 267; p. 595.
- Flanagan, Fred J., *et al.* (See Wilson, George A., assignor.)
- Flanders, Bert W., assignor to The New London Chemical Company, New London, Conn. Deodorizer. No. 1,308,845; July 8; v. 264; p. 181.
- Flanders, Bert W., assignor to The New London Chemical Company, New London, Conn. Deodorizer. No. 1,309,619; July 15; v. 264; p. 363.
- Flanders, Bert W., assignor to The New London Chemical Company, New London, Conn. Deodorizer. No. 1,323,462; Dec. 2; v. 269; p. 45.
- Flanders, Louis H., Jenkintown, Pa. Ventilation of storage batteries. No. 1,302,648; May 6; v. 262; p. 32.
- Flanders, Louis H., Jenkintown, Pa. Secondary or storage battery. No. 1,305,084; May 27; v. 262; p. 592.
- Flanders, Warren B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade. No. 1,290,533; Jan. 7; v. 258; p. 126.
- Flanders, Warren B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine-turbine installation. No. 1,294,437; Feb. 18; v. 259; p. 409.
- Flanders, William G. E., Burlington, Vt. Head-mirror. No. 1,298,686; Apr. 1; v. 261; p. 14.
- Flanigan, John J., assignor to Duplicator Manufacturing Company, Chicago, Ill. Multiple-copying machine. No. 1,317,486; Sept. 30; v. 266; p. 666.
- Flanigan, John J., assignor to Duplicator Manufacturing Company, Chicago, Ill. Device for truing up the rolls of duplicating-machines. No. 1,317,487; Sept. 30; v. 266; p. 666.
- Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
- Flannery Bolt Company. (See Dodds and Hyland, assignors.)
- Flannery Bolt Company. (See Dodds, Stafford, and Hyland, assignors.)
- Flannery Bolt Company. (See Flannery and Dodds, assignors.)
- Flannery Bolt Company. (See Gallagher, Peter F., assignor.)
- Flannery Bolt Company. (See Hyland, Charles, assignor.)
- Flannery Bolt Company. (See Landgraf, Frederick K., assignor.)
- Flannery Bolt Company. (See Stafford, Benjamin E. D., assignor.)
- Flannery Bolt Company. (See Stafford and Dodds, assignors.)
- Flannery, George, *et al.* (See Higley, John P., assignor.)
- Flannery, Howard J., Pittsburgh, Pa. Boot. No. 1,312,781; Aug. 12; v. 265; p. 207.
- Flannery, John L., Jr., assignor to The Boye Needle Company, Chicago, Ill. Display-cabinet. No. 1,325,238; Dec. 16; v. 269; p. 486.
- Flannery, John L., Jr., assignor to The Boye Needle Company, Chicago, Ill. Display-cabinet. No. 1,325,239; Dec. 16; v. 269; p. 486.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,633; Feb. 4; v. 259; p. 153.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,634; Feb. 4; v. 259; p. 153.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,635; Feb. 4; v. 259; p. 153.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,636; Feb. 4; v. 259; p. 154.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,637; Feb. 4; v. 259; p. 154.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,638; Feb. 4; v. 259; p. 154.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,293,639; Feb. 4; v. 259; p. 154.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,879; Mar. 4; v. 260; p. 13.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,880; Mar. 4; v. 260; p. 14.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,881; Mar. 4; v. 260; p. 14.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,882; Mar. 4; v. 260; p. 14.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,883; Mar. 4; v. 260; p. 14.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,295,884; Mar. 4; v. 260; p. 14.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt for boilers. No. 1,298,318; Mar. 25; v. 260; p. 640.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,298,319; Mar. 25; v. 260; p. 640.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,298,320; Mar. 25; v. 260; p. 640.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt for boilers. No. 1,313,627; Aug. 19; v. 265; p. 386.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Means for cleaning bores of staybolts. No. 1,317,693; Oct. 7; v. 267; p. 7.
- Flannery, Matthew J., Chicago, Ill. Car-door. No. 1,325,240; Dec. 16; v. 269; p. 487.
- Flatland, Martin, San Francisco, Calif. Electric switch-box. No. 1,314,259; Aug. 26; v. 265; p. 540.
- Flavin, John T., Denver, Colo. Four-wheel-drive motor-vehicle. No. 1,321,612; Nov. 11; v. 268; p. 300.
- Flechter, Leonard V., New York, N. Y., assignor to L. V. Fletcher & Company. Carbureter. No. 1,302,347; Apr. 29; v. 261; p. 910.
- Fleck, Charles H., Philadelphia, Pa. Sound-reproducing machine. No. 1,322,889; Nov. 25; v. 268; p. 642.



- Fleck, Herbert E., Nethergarment. No. 1,316,151; Sept. 16; v. 266; p. 330.
- Fleck, Herman, Golden, Colo. Manufacture of barium oxid. No. 1,326,332; Dec. 30; v. 269; p. 743.
- Fleckenstein, George L., Sioux City, Iowa. Device for indicating the presence of articles in pigeonholes. No. 1,306,757; June 17; v. 263; p. 350.
- Fleek, William A., Douglas, Alaska. Gasolene-regulator. No. 1,292,289; Jan. 21; v. 258; p. 601.
- Fleetwood Metal Body Company, The. (See Golubics, Stephen, assignor.)
- Flegel, Albert L., Racine, Wis. Magazine-pen. No. 1,304,292; May 20; v. 262; p. 403.
- Fleischauer, William G. (See Lawrence and Fleischauer.)
- Fleischer, Paul W., New York, N. Y., assignor to American Can Company. Can-topping machine. No. 1,320,749; Nov. 4; v. 268; p. 73.
- Fleischmann Company, The. (See Klein, Erwin, assignor.)
- Fleisher, Alexander M. (See Redmond, Charles C., assignor.)
- Fleisher, William C., Hackensack, Minn. Automobile-tire. No. 1,306,055; June 10; v. 263; p. 185.
- Fleming, Charles F., San Jose, Calif. Apparatus for boxing and net-weighing materials. No. 1,310,747; July 22; v. 264; p. 601.
- Fleming, David T., Honokohau, Hawaii. Fruit-trimming machine. No. 1,294,890; Feb. 18; v. 259; p. 513.
- Fleming, George, Princeton, Tex. Electrically-heated boiler. No. 1,322,556; Nov. 25; v. 268; p. 580.
- Fleming, George W., Springfield, Mass. Two-toned automobile-horn control. No. 1,299,163; Apr. 1; v. 261; p. 124.
- Fleming, Harry. (See Ward and Fleming.)
- Fleming, Harry W. (See Snyder and Fleming.)
- Fleming, James R., Scranton, Pa. Car-axle box. No. 1,296,940; Mar. 11; v. 260; p. 290.
- Fleming, John, Houghton, Mich. Poultry-exercising feeder. No. 1,297,821; Mar. 18; v. 260; p. 508.
- Fleming, John A., Mason, Tex. Dirigible headlight. No. 1,326,587; Dec. 30; v. 269; p. 792.
- Fleming, Joseph J., Boone, Iowa. Garden-tool. No. 1,302,348; Apr. 29; v. 261; p. 910.
- Fleming, Nathaniel C., Coldwater, Kans. Finger-armor. No. 1,316,292; Sept. 16; v. 266; p. 357.
- Fleming, Norman O., Huntington Park, Cal. Air-chamber for pumps. No. 1,290,155; Jan. 7; v. 258; p. 34.
- Fleming, Norman O., Huntington Park, Cal. Deep-well pump. No. 1,294,251; Feb. 11; v. 259; p. 329.
- Fleming, Richard, Swampscott, Mass., assignor to The Richard Fleming Company. Conversion of hydrocarbons. No. 1,324,766; Dec. 9; v. 269; p. 336.
- Fleming, Richard, Westfield, N. J., assignor to The Richard Fleming Company. Condensing and treating distillates. No. 1,325,668; Dec. 23; v. 269; p. 583.
- Fleming, Robert G., Sr., Blackfoot, Idaho. Egg-preserver. No. 1,293,395; Feb. 4; v. 259; p. 98.
- Fleming, Robert J., London, England. Manufacture of bifocal lenses and apparatus therefor. No. 1,305,085; May 27; v. 262; p. 592.
- Fleming, Robert B., Niagara Falls, Ontario, Canada. Motor-car-shield cleaner. No. 1,305,456; June 3; v. 263; p. 43.
- Fleming, William J., assignor of one-half to M. J. Keever, Northampton, Mass. Buckle-support. No. 1,326,153; Dec. 23; v. 269; p. 673.
- Fletcher, Alexander E. (See Maynard, Ashcroft, and Fletcher.)
- Fletcher, Charles B. (See Von Schlegell and Fletcher.)
- Fletcher, Charles H., Orrick, Mo. Hay-unloader. No. 1,291,462; Jan. 14; v. 258; p. 369.
- Fletcher, Charles W., Englewood, N. J., and D. C. Spruance, New York, N. Y., assignors to Titeflex Metal Hose Corporation. Flexible tube. No. 1,315,548; Sept. 9; v. 266; p. 206.
- Fletcher, Elmer, and R. L. Wickes, assignors to Fletcher-Wickes Co., Chicago, Ill. Phonograph. No. 1,322,890; Nov. 25; v. 268; p. 642.
- Fletcher, Ernest E., Chicago, Ill. Plaster-board support. No. 1,307,814; June 24; v. 263; p. 576.
- Fletcher, Frances S., Pasadena, Cal. Spoon-holder. No. 1,293,069; Feb. 4; v. 259; p. 23.
- Fletcher, Harold W. (See Godbold and Fletcher.)
- Fletcher, Harold W., Houston, Tex. Tool-joint. No. 1,300,365; Apr. 15; v. 261; p. 447.
- Fletcher, Harold W., Houston, Tex. Device for unscrewing and withdrawing pipe. No. 1,311,385; July 29; v. 264; p. 753.
- Fletcher, Harold W., Houston, Tex. Load-indicator. No. 1,323,037; Nov. 25; v. 268; p. 670.
- Fletcher, Harold W., Houston, Tex. Device for unscrewing and withdrawing pipe. No. 1,324,243; Dec. 9; v. 269; p. 236.
- Fletcher, Henry P., Forest Lodge, near Sydney, New South Wales, Australia. Conversion of water pastes into oil pastes. No. 1,317,784; Oct. 7; v. 267; p. 23.
- Fletcher, James, Newnes, New South Wales, Australia. Percussion rock-drill. No. 1,305,349; June 3; v. 263; p. 23.
- Fletcher, John E., assignor to The Franz-Yahn Service, Springfield, Mass. Album for phonograph disk records. No. 1,316,885; Sept. 23; v. 266; p. 516.
- Fletcher-Wickes Co. (See Fletcher and Wickes, assignors.)
- Fletcher, William, San Francisco, Calif. Churn. No. 1,315,920; Sept. 9; v. 266; p. 274.
- Fletcher, William K., Des Moines, Iowa. Sanitary pouch. No. 1,317,012; Sept. 23; v. 266; p. 540.
- Fletcher Works. (See Griscorn, Leslie, assignor.)
- Fletcher Works. (See Schaum, Otto W., assignor.)
- Fleury, Louis A., Indianapolis, Ind. Pneumatic jack. No. 1,295,471; Feb. 25; v. 259; p. 609.
- Flewell, Walter H. (See Hinde and Flewell.)
- Flexible Steel Lacing Co. (See Purple, George E., assignor.)
- Flexume Sign Company. (See Wiley, Roy R., assignor.) (Reissue.)
- Flexner, Isidor. (See Taylor and Flexner.)
- Flexner-Taylor Company. (See Taylor and Flexner, assignors.)
- Flexon, Richard G., Williamstown, N. J. Crossing-signal. No. 1,297,339; Mar. 18; v. 260; p. 406.
- Flick, Edward, Hartford, Wis. Lathe-center. No. 1,326,653; Dec. 30; v. 269; p. 804.
- Flick, Edward, Hartford, Wis. Drill-chuck. No. 1,326,654; Dec. 30; v. 269; p. 804.
- Flick, Lorenz, Saylesville, assignor, by mesne assignments, to F. A. Sayles, C. O. Read, and K. F. Wood, Pawtucket, R. I. Textile-printing machine. No. 1,305,890; June 3; v. 263; p. 125.
- Flick, Lorenz, Saylesville, assignor, by mesne assignments, to F. A. Sayles, C. O. Read, and K. F. Wood, Pawtucket, R. I. Textile-printing machine. No. 1,305,891; June 3; v. 263; p. 125.
- Flicker, Horace, Parramatta, New South Wales, Australia. Treatment of sewage for the purification thereof and the production of combustible gas therefrom. No. 1,314,955; Sept. 2; v. 266; p. 88.
- Flicker, Louis, San Francisco, Calif. Hat-renovating machine. No. 1,303,190; May 6; v. 262; p. 135.
- Flidner, Helen M., Cleveland, Ohio. Drawing-desk. No. 1,303,280; May 13; v. 262; p. 180.
- Fliflet, Thorleif, Brooklyn, N. Y. Flashing-insert for roof construction. No. 1,313,283; Aug. 19; v. 265; p. 321.
- Flinchbaugh, Clarence E., Lima, Ohio. Windmill. No. 1,305,789; June 3; v. 263; p. 106.
- Fling, Walter T., Savannah, Mo. Oil-burner stove. No. 1,306,954; June 17; v. 263; p. 387.
- Fling, Walter T., Savannah, Mo. Oil-burner. No. 1,306,955; June 17; v. 263; p. 387.
- Flinn, Frederick B. (See Towne and Flinn.)
- Flinn, Frederick B., Orange, N. J., assignor, by mesne assignments, to Pneumatic Process Plotation Company, New York, N. Y. Apparatus for separating ore materials from each other. No. 1,314,316; Aug. 26; v. 265; p. 550.
- Flint, Amos H. (See Brindle and Flint.)
- Flint, Justin T. (See Munn, Samson P., assignor.)
- Flintkote Company, The. (See Overbury, Frederick C., assignor.)
- Flintkote Company, The. (See Spear, George A., assignor.)
- Flintkote Manufacturing Company. (See Overbury, Frederick C., assignor.)
- Flohr, Eugene W., North Milwaukee, Wis. Button-anchor for wearing-apparel. No. 1,316,886; Sept. 23; v. 266; p. 516.
- Flom, Andrew K., Montevideo, Minn. End-gate. No. 1,311,644; July 29; v. 264; p. 800.
- Flood, David, and A. Pearson, Lindsborg, Kans. Hook. No. 1,305,892; June 3; v. 263; p. 125.
- Flood, George B., North Adams, Mass. Keir-bleaching. No. 1,290,156; Jan. 7; v. 258; p. 35.
- Flood, Henry L., Ponca City, Okla. Rack and pinion mechanism for engines. No. 1,316,437; Sept. 16; v. 266; p. 384.
- Florin, John L., Davenport, Wash. Weeder. No. 1,293,745; Feb. 11; v. 259; p. 209.
- Flohr, Wilhelm C., New York, N. Y. Electric fuse or cut-out. No. 1,325,562; Dec. 23; v. 269; p. 563.
- Flournoy, Parke L., Bethesda, Md. Device for filling fountain-pens. No. 1,290,534; Jan. 7; v. 258; p. 126.
- Flower, David B., Glenside, Pa. Electric-brush holder. No. 1,319,147; Oct. 21; v. 267; p. 372.
- Flower, George C., Pittsburgh, Pa. Die. No. 1,310,068; July 15; v. 264; p. 445.
- Flower, Owen C., San Francisco, Calif. Agricultural implement. No. 1,303,051; May 6; v. 262; p. 109.
- Flower, Spenser A., London, England. Airship. No. 1,298,487; Mar. 25; v. 260; p. 676.
- Flower, William A., and L. H. Weithelmer, Fresno, Calif. Motor-meter and radiator-cap lock. No. 1,306,143; June 10; v. 263; p. 202.
- Flowers, Thomas W., assignor to E. A. Humphrey, trustee, Goldsboro, N. C. Adjustable shade-roller hanger. No. 1,300,366; Apr. 15; v. 261; p. 447.
- Floyd, Chas. B., et al. (See Cole, Melville R., assignor.)
- Floyd, George G., Riverside, Ill. Casing. No. 1,304,866; May 27; v. 262; p. 551.
- Floyd, George G., Riverside, Ill. Shaft-operating device. No. 1,304,867; May 27; v. 262; p. 551.
- Floyd, George G., Riverside, Ill. Strapping element. No. 1,304,953; May 27; v. 262; p. 567.



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- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Yoke for draw-bars. No. 1,323,260; Dec. 2; v. 269; p. 7.
- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Brake-hanger arrangement. No. 1,325,512; Dec. 23; v. 269; p. 554.
- Floyd W. Robison Company. (See Robison, Floyd W., assignor.)
- Fluck, George, assignor to Continental Can Company, Incorporated, Syracuse, N. Y. Packing device for can-closing machines. No. 1,307,248; June 17; v. 263; p. 439.
- Flues, Emil F., Buffalo, N. Y. Automatic compensating bolt for firearms of the breakdown type. No. 1,312,170; Aug. 5; v. 265; p. 60.
- Fügel, Gustav, Berlin, Germany, assignor to General Electric Company. Centrifugal compressor. No. 1,326,043; Dec. 23; v. 269; p. 653.
- Fluharty, James T., Preston, Md. Scalding apparatus. No. 1,294,335; Feb. 11; v. 259; p. 348.
- Fluke, Eley, Independence, Oreg. Combination-switch. No. 1,320,042; Oct. 28; v. 267; p. 563.
- Fluker, James, Feltham, England. Fire-extinguisher. No. 1,305,457; June 3; v. 263; p. 43.
- Flye, William L., Glen Ridge, N. J., assignor to American Telephone and Telegraph Company. Test-connector. No. 1,301,827; Apr. 29; v. 261; p. 812.
- Flynn, John J., Irvington, N. J., assignor to Connecticut Dynamo and Motor Company. Brush-connector for electroplating-generators. No. 1,296,941; Mar. 11; v. 260; p. 291.
- Flynn, Thomas A., Jr., Perth Amboy, N. J. Automatic train-stop. No. 1,300,152; Apr. 8; v. 261; p. 375.
- Flynn, Thomas H., et al. (See Connolly, John J., assignor.)
- Foamite Firefoam Company. (See Epps, Frank A., assignor.)
- Foamite Firefoam Company. (See Meigs, Charles H., assignor.)
- Foamite Firefoam Company. (See Patterson, Duncan W., assignor.)
- Foamite Firefoam Company. (See Walker, William W., assignor.)
- Foans, Andrew B., New York, N. Y. Go-cart. No. 1,305,207; May 27; v. 262; p. 616.
- Fobian, George H. (See Manegold and Fobian.)
- Foderaro, Ralph, Archbald, and G. W. Wilmot, Hazleton, Pa. Discharge-controlling means for jigs. No. 1,324,588; Dec. 9; v. 269; p. 303.
- Fodor, Antal, assignor to Dymalkon Metals Corporation, New York, N. Y. Reproducing articles in metal. No. 1,296,498; Mar. 4; v. 260; p. 152.
- Fodor, Max. (See Garami and Fodor.)
- Foehl, Gustave A. (See Porter, James L., assignor.)
- Foerst, John, Bayonne, N. J. Burner. No. 1,321,816; Nov. 18; v. 268; p. 390.
- Fogarty, Francis D., assignor to The "Fogarty" Patent Interchangeable Harvester Corporation Limited, Perth, Western Australia, Australia. Transport-frame specially applicable to harvesting-machines. No. 1,293,070; Feb. 4; v. 259; p. 23.
- Fogarty, John. (See McGee and Fogarty.)
- "Fogarty" Patent Interchangeable Harvester Corporation, The. (See Fogarty, Francis D., assignor.)
- Fogarty, Roger, assignor of one-half to L. Wallace, Newark, N. J. Antiskid device. No. 1,295,472; Feb. 25; v. 259; p. 669.
- Fogel, Martin, and A. Ascher, New York, N. Y. Electric motor. No. 1,291,819; Jan. 21; v. 258; p. 484.
- Fogelsonger, Howard, Clarence, N. Y. Bean-sorting machine. No. 1,309,401; July 8; v. 264; p. 285.
- Fogg, Harold J., Liverpool, England. Building, made mainly of blocks of concrete or equivalent material. No. 1,312,968; Aug. 12; v. 265; p. 243.
- Fogg, Herbert T., East Orange, N. J., and J. J. Ferrall, Valhalla, assignors to National Biscuit Company, New York, N. Y. Display-rack. No. 1,291,463; Jan. 14; v. 258; p. 370.
- Fogg, Herbert T., East Orange, N. J., assignor to National Biscuit Company, New York, N. Y. Container-erate. No. 1,303,873; May 20; v. 262; p. 326.
- Fogh, Walter B., Seattle, Wash. Can-head-cutting machine. No. 1,325,983; Dec. 23; v. 269; p. 641.
- Fogleman, Edgar L., Balboa, Canal Zone. Drill. No. 1,299,318; Apr. 1; v. 261; p. 160.
- Foill, Raymond W., Jackson, Mich. Spring-cushion structure. No. 1,292,290; Jan. 21; v. 258; p. 601.
- Folberth, William M., Cleveland, Ohio. Apparatus for cleaning automobile wind-shields. No. 1,309,724; July 15; v. 264; p. 384.
- Foley, Benjamin, Youngstown, Ohio. Liquid-fuel burner. No. 1,304,293; May 20; v. 262; p. 404.
- Foley, Hugh B., Minneapolis, Minn. Supplemental wheel-rim. No. 1,293,746; Feb. 11; v. 259; p. 210.
- Foley, James S. (See Baker and Foley.)
- Foley, John P., Galesburg, Ill. Casket-handle. No. 1,312,171; Aug. 5; v. 265; p. 60.
- Foley, Michael T. (See Cottini, Guliemo and G., assignors.)
- Foley, Thomas F. (See Carroll, Aaron T., assignor.)
- Folger, Harry, and J. C. Julien, assignors to R. D. Swisher Manufacturing Company, Chicago, Ill. Hand-stamp. No. 1,301,926; Apr. 29; v. 261; p. 831.
- Folger, Harry S., and T. Ross, Chicago, Ill.; said Ross assignor to said Folger. Holder for pads, stamps, and pens. No. 1,300,153; Apr. 8; v. 261; p. 375.
- Foljambe, Eugene S., Drexel Hill, Pa. Wheeled-top watercraft. No. 1,296,277; Mar. 4; v. 260; p. 105.
- Folk, Joseph. (See Luscheka and Folk.)
- Folker, Howard S., assignor to National Safety Appliance Company, San Francisco, Calif. Railway-train control. No. 1,322,418; Nov. 18; v. 268; p. 503.
- Follansbee, Osborne K., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Operator's chair. No. 1,318,438; Oct. 14; v. 267; p. 210.
- Follett, Edward P., Duluth, Minn. Street-indicating device. No. 1,305,271; June 3; v. 263; p. 8.
- Folliard, James F., Brooklyn, N. Y. Ball-bat. No. 1,291,464; Jan. 14; v. 258; p. 370.
- Follick, George W., Buffalo, N. Y. Combination-lock. No. 1,307,194; June 17; v. 263; p. 429.
- Follows, George H., Pittsburgh, Pa. Pocket-orderly. No. 1,313,374; Aug. 19; v. 265; p. 338.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic dark box. No. 1,291,820; Jan. 21; v. 258; p. 485.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Aeroplane-camera. No. 1,304,673; May 27; v. 262; p. 515.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Automatic aeroplane-camera. No. 1,309,798; July 15; v. 264; p. 396.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,317,129; Sept. 23; v. 266; p. 563.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for making identifying-photographs. No. 1,324,887; Dec. 16; v. 269; p. 420.
- Folsom, Arthur E., assignor to W. M. Whitney, Winchendon, Mass. Hopper-feed for woodworking-machines. No. 1,302,649; May 6; v. 262; p. 32.
- Folsom, Arthur E., assignor to W. M. Whitney, Winchendon, Mass. Planer-bridge-adjusting means. No. 1,314,514; Sept. 2; v. 266; p. 7.
- Folsom, Clarence P., assignor to Dayton Beater & Hoist Company, Dayton, Ohio. Roll for beating-machines. No. 1,297,972; Mar. 18; v. 260; p. 541.
- Folsom, Clarence P., and L. E. Halteman, assignors to Dayton Beater and Hoist Co., Dayton, Ohio. Fastening means for beater-roll bars. No. 1,309,402; July 8; v. 264; p. 285.
- Folsom, William H., Minneapolis, Minn. Mechanical movement. No. 1,323,851; Dec. 2; v. 269; p. 118.
- Foltz, Ira W., Chicago, Ill. Furnace. No. 1,322,183; Nov. 18; v. 268; p. 458.
- Foltz, Irving J., San Francisco, Calif. Gas-burner. No. 1,307,294; June 17; v. 263; p. 448.
- Foltz, William E., Detroit, assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,308,489; July 1; v. 264; p. 88.
- Foltzer, Joseph, Horn, Switzerland. Making products having closed structures, such as leather imitations, felt, and Japanese paper. No. 1,295,148; Feb. 25; v. 259; p. 595.
- Folwell-Ahlskog Company. (See Leighty and Ahlskog, assignors.)
- Fones, John H., Oakland, Calif. Wrench. No. 1,302,027; Apr. 29; v. 261; p. 850.
- Fonnesbeck, Leon, Logan, Utah. Rotary plow. No. 1,300,595; Apr. 15; v. 261; p. 495.
- Fons, Stanley J., Royal Oak, Mich. Winch for motor-vehicles. No. 1,318,139; Oct. 7; v. 267; p. 91.
- Fontaine, Albert C., Millbury, Mass. Air-controlling device for carbureters. No. 1,313,478; Aug. 19; v. 265; p. 357.
- Fontaine, Calyx, Boston, Mass. Corn and bunion scorer. No. 1,310,183; July 15; v. 264; p. 466.
- Fontaine, Félix. (See Küntziger, Chauvin, and Fontaine.)
- Fontaine, Robert A., Roanoke, Va. Brick-handling truck. No. 1,299,447; Apr. 8; v. 261; p. 217.
- Fontaine, Robert A., and G. T. Greer, Roanoke, Va., assignors to American Truck Body Company, Incorporated. Dumping attachment for vehicles. No. 1,293,640; Feb. 4; v. 259; p. 154.
- Food Appliances Manufacturing Corporation. (See Nye, Alvin F., assignor.)
- Food Appliances Manufacturing Corporation. (See Thomas, Sherman A., assignor.)
- Fook, Tom Y., Mesa, Ariz. Spring-hinge. No. 1,312,392; Aug. 5; v. 265; p. 100.
- Fooks, Nelson H., Preston, Md. Cooker. No. 1,318,985; Oct. 14; v. 267; p. 314.
- Foos Gas Engine Company, The. (See Schettler, Wesley W., assignor.)
- Foot, Edward T., Boston, Mass., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Battery-charging equipment. No. 1,319,215; Oct. 21; v. 267; p. 384.
- Foot, Frank M., Arcade, N. Y. Freight-car. No. 1,302,533; May 6; v. 262; p. 10.
- Foot, John B., Oak Park, Ill. Machine for stemming fruit. No. 1,298,488; Mar. 25; v. 260; p. 676.
- Foot, John H., Jamaica, N. Y. Boiler-furnace. No. 1,323,038; Nov. 25; v. 268; p. 670.
- Foot, Moses L. (See Kingsbury and Foot.)



- Foote, Moses L. and W. M. Kingsbury, Cleveland, Ohio. Hot-blast radiator. No. 1,292,291; Jan. 21; v. 258; p. 601.
- Foote, Thomas W., Cleveland, Ohio. Chair-base. No. 1,303,646; May 13; v. 262; p. 241.
- Fopiano, Frederick A., Springfield, Mass. Fountain-brush. No. 1,293,071; Feb. 4; v. 259; p. 23.
- Forbes, Allan W., Worcester, Mass. Automatic ignition-regulator for internal-combustion engines. No. 1,324,148; Dec. 9; v. 269; p. 218.
- Forbes, Charles W., Pasadena, Cal. Direction-indicator for automobiles. No. 1,296,065; Mar. 4; v. 200; p. 57.
- Forbes, Charles W., Pasadena, Calif. Fireplace-furnace. No. 1,309,024; July 8; v. 264; p. 216.
- Forbes, Ewing M., Chappaqua, N. Y., assignor to W. W. Mountain, Flint, Mich. Tool and tool-holder. No. 1,309,281; July 8; v. 264; p. 263.
- Forbes Lithograph Manufacturing Company, The. (See Macdonald, John D., assignor.)
- Forbes, Philip J., Brooklyn, N. Y. Box-strap. No. 1,320,220; Oct. 28; v. 267; p. 595.
- Forbes, William D., New London, Conn. Firearm. No. 1,315,295; Sept. 9; v. 266; p. 160.
- Forbis, Rufus E., assignor to Chemical Construction Company, Charlotte, N. C. Acid-phosphate apparatus. No. 1,318,063; Oct. 7; v. 267; p. 77.
- Forbids, Michael. (See Robinson, Ulysses S., assignor.)
- Ford, Alexander H. (See Campbell and Ford.)
- Ford, Algernon P., and H. J. Mitchell, London, England. Joint or coupling for rods or the like. No. 1,306,956; June 17; v. 263; p. 387.
- Ford, Archibald E., London, England. Collapsible boat. No. 1,303,550; May 13; v. 262; p. 228.
- Ford, Ben K., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Jacketed can. No. 1,306,808; June 17; v. 263; p. 359.
- Ford, Ben K., East Orange, N. J. Retainer for container-closures. No. 1,307,351; June 24; v. 263; p. 492.
- Ford, Ben K., Oak Park, and E. M. Hallbauer, Maywood, Ill., assignors to American Can Company, New York, N. Y. Can. No. 1,318,370; Oct. 14; v. 267; p. 197.
- Ford, Bion D., Cleveland, Ohio. Milling-machine cutter. No. 1,313,628; Aug. 19; v. 265; p. 386.
- Ford, C. Burton, *et al.* (See Sadtler, Samuel S., assignor.)
- Ford, Charles F., Chicago, Ill. Automatic cooker. No. 1,310,495; July 22; v. 264; p. 554.
- Ford, Edson L., Dorchester, Mass. Preserve-jar. No. 1,325,984; Dec. 23; v. 269; p. 641.
- Ford, Edwin H., assignor to Ford Meter Box Company, Wabash, Ind. Water-meter connection. No. 1,301,243; Apr. 22; v. 261; p. 669.
- Ford, Edwin H., assignor to Ford Meter Box Company, Wabash, Ind. Adjustable pipe-coupling. No. 1,301,244; Apr. 22; v. 261; p. 669.
- Ford, Eugene A., Newton, Mass., assignor to R. E. D. Engine Company, Inc., New York, N. Y. Internal-combustion motor. No. 1,314,640; Sept. 2; v. 266; p. 32.
- Ford, Everett G., Glendale, assignor of one-third to G. W. Neill, Torrance, Calif., and one-third to A. H. Bartlett. Internal-combustion engine. No. 1,311,504; July 29; v. 264; p. 775.
- Ford, Frederick H., assignor to The Totalux Company, Milwaukee, Wis. Headlight front or lens. No. 1,302,148; Apr. 29; v. 261; p. 872.
- Ford, Frederick W., Orange, Tex. Fire-spreading device. No. 1,302,148; Apr. 29; v. 261; p. 872.
- Ford, George. (See Pickford and Ford.)
- Ford, Hannibal C., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Battle-tracer. No. 1,293,747; Feb. 11; v. 259; p. 210.
- No. 1,294,645; Feb. 18; v. 259; p. 456.
- Ford, Hannibal C., New York, N. Y., assignor, by mesne assignments, to Ford Instrument Company, Inc. Speedometer. No. 1,297,554; Mar. 18; v. 260; p. 451.
- Ford, Hannibal C., New York, N. Y., assignor, by mesne assignments, to Ford Instrument Company, Inc. Apparatus for transmitting motion from one movable member to another. No. 1,317,914; Oct. 7; v. 267; p. 48.
- Ford, Hannibal C., New York, N. Y., assignor, by mesne assignments, to Ford Instrument Company, Inc. Mechanical movement. No. 1,317,915; Oct. 7; v. 267; p. 48.
- Ford, Hannibal C., New York, N. Y., assignor to Ford Instrument Company, Inc. Power-transmitting mechanism. No. 1,317,916; Oct. 7; v. 267; p. 48.
- Ford, Harry, Uttoxeter, England. Article adapted to be used as light-reflectors, vase, or the like. No. 1,313,806; Aug. 19; v. 265; p. 419.
- Ford, Henry, Dearborn, Mich. Engine and radiator assembly. No. 1,312,476; Aug. 5; v. 265; p. 117.
- Ford Instrument Company. (See Ford, Hannibal C., assignor.)
- Ford, John, Portneuf, Quebec, Canada. Hospital-bed. No. 1,318,271; Oct. 7; v. 267; p. 117.
- Ford, John F., Los Angeles, Calif. Article-holder. No. 1,309,125; July 8; v. 264; p. 235.
- Ford, John F., Hawthorne, Calif. Rotary pump. No. 1,318,319; Oct. 7; v. 267; p. 126.
- Ford, Joseph, *et al.* (See Warmick, H. and A., assignors.)
- Ford, Joseph C., assignor to French Battery & Carbon Company, Madison, Wis. Hand-lamp. No. 1,324,547; Dec. 9; v. 269; p. 206.
- Ford Meter Box Company. (See Ford, Edwin H., assignor.)
- Ford, Otis R., Pittsburgh, Pa. Dimming device. No. 1,297,822; Mar. 18; v. 260; p. 508.
- Ford, Ralph L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Seed-planter. No. 1,323,625; Dec. 2; v. 269; p. 75.
- Ford, Robert H., C. P. Richardson, A. L. Greenabam, Chicago, Ill., and H. M. Priest, Dayton, Ohio. Reinforced-concrete cribbing. No. 1,312,689; Aug. 12; v. 265; p. 188.
- Ford, Samuel M., Des Moines, Iowa. Inhaler. No. 1,317,013; Sept. 23; v. 266; p. 540.
- Ford, Shelley W., assignor of one-half to R. A. Sundvahl, Chicago, Ill. Trousers stretcher and hanger. No. 1,296,942; Mar. 11; v. 260; p. 291.
- Ford, Silas M., St. Paul, Minn. Reclaiming asphaltic waste products. No. 1,290,954; Jan. 14; v. 258; p. 252.
- Ford, Silas M., St. Paul, Minn. Mailing-form. No. 1,291,694; Jan. 14; v. 258; p. 423.
- Ford, Silas M., St. Paul, Minn. Forming lath-board. No. 1,293,072; Feb. 4; v. 259; p. 24.
- Ford, Silas M., St. Paul, Minn. Manufacturing prepared roofing. No. 1,294,252; Feb. 11; v. 259; p. 329.
- Ford, Silas M., St. Paul, Minn. Manufacturing prepared roofing. No. 1,294,785; Feb. 18; v. 259; p. 489.
- Ford, Silas M., St. Paul, Minn. Machine for making lath-board. No. 1,297,304; Mar. 11; v. 260; p. 370.
- Ford, Silas M., St. Paul, Minn. Plaster-board. No. 1,301,828; Apr. 29; v. 261; p. 812.
- Ford, Stuart M., Bridgeport, Conn., assignor to The Duratex Company, Newark, N. J. Fabric-hanging machine. No. 1,290,955; Jan. 14; v. 258; p. 253.
- Ford, Thomas B., White Plains, N. Y. Valve. No. 1,316,539; Sept. 16; v. 266; p. 405.
- Ford, William B., Birmingham, Ala. Float-controlled valve for flushing-tanks and the like. No. 1,313,889; Aug. 26; v. 265; p. 468.
- Ford, William H. D., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Message-register. No. 1,322,557; Nov. 25; v. 268; p. 580.
- Fordham, Charles F. (See Schutt and Fordham.)
- Fordzone Manufacturing Company. (See Irving and Murphy, assignors.)
- Fore, Frank W., Belpre, Ohio. Power-transmitting device. No. 1,301,548; Apr. 22; v. 261; p. 727.
- Fore River Shipbuilding Corporation *et al.* (See Peck, Harry H., assignor.)
- Foreman, Amos L., York, Pa. Bottle-crate. No. 1,290,157; Jan. 7; v. 258; p. 35.
- Foreman, Amos L., York, Pa. Bottle-cap. No. 1,314,318; Aug. 26; v. 265; p. 551.
- Foreman, Amos L., Baltimore, Md., assignor to Foremans Systems, Incorporated, Wilmington, Del. Bottle-crate. No. 1,314,317; Aug. 26; v. 265; p. 551.
- Foreman, Lewis T., Omaha, Nebr. Training-weight. No. 1,291,465; Jan. 14; v. 258; p. 370.
- Foremans Systems, Incorporated. (See Foreman, Amos L., assignor.)
- Forester, Gustav G., Moline, Ill. Automobile-heating device. No. 1,291,466; Jan. 14; v. 258; p. 370.
- Forester, Gustav G., Moline, Ill. Reamer. No. 1,291,467; Jan. 14; v. 258; p. 371.
- Forester, Leonard, Trenton, N. J. Pyrometer. No. 1,315,716; Sept. 9; v. 266; p. 235.
- Forger, William, New York, N. Y. Dry-cleaning extractor. No. 1,307,661; June 24; v. 263; p. 547.
- Fork, William C. (See Norton and Fork.)
- Forkner, Henry A., Joplin, Mo. Demountable-rim spreader. No. 1,304,674; May 27; v. 262; p. 516.
- Forkner, Robert F., assignor or one-third to J. B. Thomas, Princeton, W. Va. Gasoline-engine system. No. 1,300,714; Apr. 15; v. 261; p. 520.
- Förland, Tormod R., Haugesund, Norway. Extraction of molybdenum. No. 1,305,350; June 3; v. 263; p. 23.
- Förland, Tormod R., Haugesund, Norway. Separation of molybdenum ores. No. 1,308,735; July 1; v. 264; p. 134.
- Forman, Paris R., Chicago, Ill., assignor to National Pneumatic Company. Door-operating mechanism. No. 1,325,084; Dec. 16; v. 269; p. 457.
- Formanack, Joseph A., St. Louis, Mo. Shoe-heel. No. 1,314,319; Aug. 26; v. 265; p. 551.
- Formanack, Joseph A., St. Louis, Mo. Shoe-heel. No. 1,315,767; Sept. 9; v. 266; p. 244.
- Formby, George M., Denton, Ga. Flycatcher. No. 1,324,888; Dec. 16; v. 269; p. 421.
- Formiglia, Giuseppe and A. Maulo, Philadelphia, Pa. Submarine apparatus. No. 1,320,750; Nov. 4; v. 263; p. 73.
- Formander, Erik, Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,318,741; Oct. 14; v. 267; p. 267.
- Forness, Marcus H., Taylor, Wis., assignor to Joseph F. F. Willette, Seattle, Wash. Tire-chain. No. 1,317,568; Sept. 30; v. 266; p. 683.
- Forrest, Charles N., Rahway, and J. V. Melgs, Perth Amboy, N. J., assignors to The Barber Asphalt Paving Company, Philadelphia, Pa. Manufacture of resinous products. No. 1,305,790; June 3; v. 263; p. 106.
- Forrest, Howard H., Kent, Ohio. Tire-mold. No. 1,312,438; Aug. 5; v. 265; p. 110.



## Alphabetical list of patentees—Continued.

- Forrest, James A., Kanopolis, Kans. Cloth-holder. No. 1,324,656; Dec. 9; v. 269; p. 316.
- Forsberg, Oscar F., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Terminal bank. No. 1,298,321; Mar. 25; v. 260; p. 640.
- Forsberg, Peter W., Schenectady, N. Y., assignor to General Electric Company. Electrical system of power transmission and regenerative braking. No. 1,315,826; Sept. 9; v. 266; p. 255.
- Forshee, Frank, assignor, by mesne assignments, to Cope-man Development Company, Flint, Mich. Grease-cup. No. 1,292,594; Jan. 28; v. 258; p. 696.
- Forshee, Frank, assignor, by mesne assignments, to Cope-man Development Company, Flint, Mich. Grease-cup. No. 1,314,073; Aug. 26; v. 265; p. 504.
- Forsman, Herman, Cleveland, Ohio. Pipe-coupling. No. 1,290,158; Jan. 7; v. 258; p. 35.
- Forst, Samuel G. (See Donald, William H., assignor.)
- Forster, Andrew, Cowes, assignor to J. Samuel White & Company, Limited, East Cowes, Isle of Wight, England. Slotting-machine. No. 1,294,646; Feb. 18; v. 259; p. 456.
- Forster, Andrew, and J. H. Brown, Isle of Wight, assignors to J. Samuel White & Company, Limited, East Cowes, Isle of Wight, England. Starting and stopping of internal-combustion engines. No. 1,323,686; Dec. 2; v. 269; p. 86.
- Forster, John, Los Angeles, Calif. Lock-joint for table-frames. No. 1,320,611; Nov. 4; v. 268; p. 48.
- Forster, John W. L., et al. (See McCullum, James H. K., assignor.)
- Forster, Joseph, Patchogue, N. Y. Flower-pot. No. 1,317,569; Sept. 30; v. 266; p. 683.
- Forsyth, George H. (See Mueller, Henry, assignor.)
- Forsyth, George H., Chicago, Ill. Window construction. No. 1,299,448; Apr. 8; v. 261; p. 217.
- Forsyth, John D. C., Kitchener, Ontario, Canada. Reversible cuff. No. 1,290,956; Jan. 14; v. 258; p. 253.
- Forsyth, John M., Los Angeles, Cal. Safety knife-guard. No. 1,292,292; Jan. 21; v. 258; p. 601.
- Forsyth, Robert, Hancock, Mich. Grinding instrumentality and producing same. No. 1,308,007; June 24; v. 263; p. 612.
- Forsyth, Robert, New York, N. Y. Grinding-machine. No. 1,308,008; June 24; v. 263; p. 612.
- Forsyth, William R. (See McDonald and Forsyth.)
- Forsythe, George W. (See Smith and Forsythe.)
- Fort, George D., Mount Eden, Auckland, New Zealand. Flushing-cistern. No. 1,321,613; Nov. 11; v. 268; p. 301.
- Fort, Louis, Jersey City, N. J. Line-wire insulator. No. 1,292,451; Jan. 28; v. 258; p. 660.
- Fort, Tandy L., Dallas, Tex., assignor to Remington Type-writer Company, Ilion, N. Y. Type-writing machine. No. 1,309,403; July 8; v. 264; p. 285.
- Forté, Harry P., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Tablet-stacking machine. No. 1,291,821; Jan. 21; v. 258; p. 485.
- Fortescue, Albert J., Arncliffe, near Sydney, New South Wales, Australia. Aerial machine. No. 1,290,831; Jan. 7; v. 258; p. 197.
- Fortescue, Charles L. (See Copley and Fortescue.)
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Relay system. No. 1,295,885; Mar. 4; v. 260; p. 15.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Distributing system for electric railways. No. 1,295,886; Mar. 4; v. 260; p. 15.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of distribution. No. 1,295,887; Mar. 4; v. 260; p. 15.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-breaker. No. 1,300,367; Apr. 15; v. 261; p. 447.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Non-inductive interference system. No. 1,303,281; May 13; v. 262; p. 180.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Distributing system for minimizing inductive interferences. No. 1,303,282; May 13; v. 262; p. 181.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Double resonant circuit. No. 1,304,294; May 20; v. 262; p. 404.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric-railway system. No. 1,304,295; May 20; v. 262; p. 404.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Radio-signaling system. No. 1,304,296; May 20; v. 262; p. 404.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Railway signaling system. No. 1,304,297; May 20; v. 262; p. 404.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolytic cell. No. 1,305,458; June 3; v. 263; p. 43.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Distributing system. No. 1,308,059; July 1; v. 264; p. 10.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lighting-arrester. No. 1,311,503; July 29; v. 264; p. 775.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Telegraph-circuit. No. 1,315,953; Sept. 16; v. 266; p. 294.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Double resonant circuit. (Reissue.) No. 1,4774; Dec. 23; v. 269; p. 674.
- Forth, Charles, Ottawa, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Ticket-issuing machine. No. 1,320,680; Nov. 4; v. 268; p. 60.
- Forth, Charles, Ottawa, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Railway-ticket machine. No. 1,320,681; Nov. 4; v. 268; p. 60.
- Forth, Hermann. (See Bendix and Forth.)
- Forthmiller, Gustave, et al. (See Forthmiller, Otto, assignor.)
- Forthmiller, Karl, et al. See Forthmiller, Otto, assignor.)
- Forthmiller, Otto, assignor of one-half to J. J. Maier, one-sixth to G. Forthmiller, and one-sixth to K. Forthmiller, Minneapolis, Minn. Lock-actuated circuit-breaker for ignition systems of explosive-engines. No. 1,298,322; Mar. 25; v. 260; p. 641.
- Fortier, Charles L., Milwaukee, Wis. Automatic control device. No. 1,312,244; Aug. 5; v. 265; p. 73.
- Fortin, Benjamin P., Hartford, Conn. Multiple tool-head for drill-presses. No. 1,326,398; Dec. 30; v. 269; p. 755.
- Fortney, Chauncey O., Bowling Green, Ohio. Valve. No. 1,305,997; June 10; v. 263; p. 175.
- Fortuna-Werke Spezialmaschinenfabrik, G. m. b. H. (See Klinger, Hermann, assignor.)
- Fortune, Herbert O., Norfolk, Va. Game apparatus. No. 1,303,874; May 20; v. 262; p. 326.
- Fortuny, Francis, New York, N. Y. Car-fender. No. 1,299,319; Apr. 1; v. 261; p. 160.
- Forward, Chauncey B., Urbana, Ohio. Refining oil. No. 1,299,449; Apr. 8; v. 261; p. 218.
- Fosgate, Alfred, Detroit, Mich. Automatic device for raising submerged vessels and other structures. No. 1,300,715; Apr. 15; v. 261; p. 521.
- Fosler, Howard B., Baltimore, Md. Cut-off and drain valve. No. 1,301,549; Apr. 22; v. 261; p. 727.
- Fosler, Ira G., Chicago, Ill. Gramophone-motor and the like. No. 1,324,657; Dec. 9; v. 269; p. 316.
- Fosnot, Louis P. (See Burkel and Fosnot.)
- Foss, Antonius, assignor to Norsk Hydro-elektrisk Kvaestofaktieselskab, Christiania, Norway. Manufacturing phosphate fertilizer containing nitrogen. No. 1,292,293; Jan. 21; v. 258; p. 601.
- Foss, Benjamin Q. P., assignor to The Foss International Ore Reduction Company, Chicago, Ill. Ore-reducing process. No. 1,311,645; July 29; v. 264; p. 800.
- Foss, Henry, Deer River, Minn. Protector for railway-switches. No. 1,307,662; June 24; v. 263; p. 548.
- Foss, Herman, Tjömö, and H. Petersen, Christiania, Norway. System for the transmission of writing and the like in facsimile. No. 1,290,957; Jan. 14; v. 258; p. 253.
- Foss-Hughes Company. (See Noonan, Albert S., assignor.)
- Foss International Ore Reduction Company, The. (See Foss, Benjamin Q. P., assignor.)
- Fossa, Joseph, New York, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,315,486; Sept. 9; v. 266; p. 195.
- Fossati, Mario, assignor to Società Anonima Stabilimenti Biak, Turin, Italy. Electric furnace for heating, annealing, and melting metallic material. No. 1,322,416; Nov. 18; v. 268; p. 502.
- Fossel, Joseph, Farnumville, Mass. Machine for making, charging, and sealing cartons. No. 1,306,422; June 10; v. 263; p. 256.
- Fosston-Carpenter Company. (See Ek, Nels G., assignor.)
- Foster, Arthur B., Washington, D. C. Obtaining alcohol. No. 1,320,043; Oct. 28; v. 267; p. 563.
- Foster, Arthur B., Washington, D. C., assignor to Sulphur Syndicate, Limited, London, England. Desulfurizing metal sulfides. No. 1,296,585; Mar. 4; v. 260; p. 172.
- Foster Bros. Mfg. Co. (See Frank, William E., assignor.)
- Foster, Charles M., Hobart, Tasmania, Australia. Chassis construction for motor-vehicles. No. 1,290,958; Jan. 14; v. 258; p. 253.
- Foster Development Co. (See Foster, Donovan, assignor.)
- Foster, Donovan, assignor to Foster Development Co., Seattle, Wash. Headlight-lens. No. 1,321,787; Nov. 11; v. 268; p. 334.
- Foster, Donovan, Seattle, Wash., and F. P. Kelley, Chicago, Ill., assignor of one-fourth to E. W. Todd, Los Angeles, Calif. Headlight-lens. No. 1,322,776; Nov. 25; v. 268; p. 621.
- Foster, Edgar G. (See Boesch and Foster.)



- Foster, Edward E., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. No. 1,326,489; Dec. 30; v. 269; p. 773.
- Foster, Edwin S., Caspar, Calif. Hose-coupling. No. 1,325,468; Dec. 16; v. 269; p. 528.
- Foster, Ernest H., Dongan Hills, N. Y. Expanding super-heater-tubes. No. 1,304,954; May 27; v. 262; p. 567.
- Foster, Ernest H., Dongan Hills, N. Y. Apparatus for expanding superheater-tubes. No. 1,313,284; Aug. 19; v. 265; p. 321.
- Foster, F. W., *et al.* (See Rumburg, James P., assignor.)
- Foster, Frank W. (See Evans, James E., assignor.)
- Foster, Fred E., St. Louis, Mo. Fencepost. No. 1,315,016; Sept. 2; v. 266; p. 100.
- Foster, Frederick R. (See Mack and Foster.)
- Foster, George W., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Winding-machine. No. 1,309,404; July 8; v. 264; p. 286.
- Foster, George W., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Cone-winding machine. No. 1,324,889; Dec. 16; v. 269; p. 421.
- Foster, Henry J., assignor to Hydraulic Pressed Steel Company, Cleveland, Ohio. Demountable rim. No. 1,299,450; Apr. 8; v. 261; p. 218.
- Foster, Henry J., assignor to Hydraulic Pressed Steel Company, Cleveland, Ohio. Demountable rim. No. 1,299,451; Apr. 8; v. 261; p. 218.
- Foster, Herbert E., Epsom, England. Chuck. No. 1,292,747; Jan. 28; v. 258; p. 731.
- Foster, John C. (See Elder, Joseph H., assignor.)
- Foster, John M., Fulton, N. Y. Dancing figure for phonographs. No. 1,307,121; June 17; v. 263; p. 417.
- Foster, John N., assignor of one-sixth to H. Becker and one-sixth to O. Nordwald, El Paso, Tex. Demountable rim. No. 1,306,957; June 17; v. 263; p. 387.
- Foster, Louis E., Annapolis, Md., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Testing-machine. No. 1,307,091; June 17; v. 263; p. 411.
- Foster Machine Company. (See Kijlin, Oskar, assignor.)
- Foster, Mary R., Durango, Colo. Feeding receptacle. No. 1,301,416; Apr. 22; v. 261; p. 702.
- Foster, Merriam & Company. (See Logan, Judson C., assignor.)
- Foster, Oliver W., Los Angeles, Calif. Gas-absorber. No. 1,319,274; Oct. 21; v. 267; p. 395.
- Foster, Percy G. (See Foster, Samuel G. and P. G.)
- Foster, Ralph W., assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Blow-off valve. No. 1,299,452; Apr. 8; v. 261; p. 218.
- Foster, Reginald H., Hot Springs, assignor of one-half to J. H. Page, Little Rock, Ark. Log-loading device. No. 1,317,662; Sept. 30; v. 266; p. 700.
- Foster, Sampson D., San Diego, Calif. Permutation-lock. No. 1,316,946; Sept. 23; v. 266; p. 527.
- Foster, Samuel G. and P. G., Westfield, N. J. Manifold-heater. No. 1,302,349; Apr. 29; v. 261; p. 910.
- Foster, Stanley, Porto Bello, Jamaica, British West Indies. Type-writer pad. No. 1,290,159; Jan. 7; v. 258; p. 35.
- Foster, Thomas, assignor to F. C. Austin, Chicago, Ill. Ditcher. No. 1,320,129; Oct. 28; v. 267; p. 579.
- Foster, Thomas P., Seal Cove, New Brunswick, Canada. Anchor. No. 1,324,244; Dec. 9; v. 269; p. 237.
- Foster, Walter H. (See Eden, James A., Jr., assignor.)
- Foster, Walter L., assignor of one-fourth to R. S. Oiler, Whittier, Calif. Automatic control for boiler feed-pumps. No. 1,302,350; Apr. 29; v. 261; p. 910.
- Fostoria Glass Company. (See Ebeling, Phillip, assignor.)
- Fotheringham, Robert M., Buffalo, N. Y. Excavating-bucket. No. 1,309,846; July 15; v. 264; p. 405.
- Föttinger, Hermann, Zoppot, near Danzig, Germany. Steam-turbine plant for ships. No. 1,296,378; Mar. 4; v. 260; p. 127.
- Fouasse, Henri, assignor to Societe d'Optique et de Mecanique de Haute Precision, Paris, France. Single-tube and double-tube optical glass. No. 1,302,351; Apr. 29; v. 261; p. 911.
- Fouasse, Henri, assignor to Societe d'Optique et de Mecanique de Haute Precision, Paris, France. Apparatus for rendering the true or apparent focal length of objectives independent of changes of temperature. No. 1,325,936; Dec. 23; v. 269; p. 632.
- Foucaud, Lucien. (See Choffel, Charles, assignor.)
- Fouch, James R., Los Angeles, Calif. Dynamometer. No. 1,303,786; May 13; v. 262; p. 272.
- Fouchy, Albert, assignor to Compagnie des Transporteurs, Simplex, Paris, France. Apparatus for use in unloading ships. No. 1,315,921; Sept. 9; v. 266; p. 274.
- Founger American Steelconcrete Shipbuilding Company. (See Fougner, Nicolay K., assignor.)
- Fougner, Nicolay K., Christiania, Norway. Building or casting of steel-concrete ships. No. 1,294,891; Feb. 18; v. 259; p. 513.
- Fougner, Nicolay K., Christiania, Norway, assignor to Fougner American Steelconcrete Shipbuilding Company, Wilmington, Del. Floating craft of reinforced concrete. No. 1,303,647; May 13; v. 262; p. 246.
- Foulke, John T., Richmond, Ind. Device for inserting fence-anchors. No. 1,311,335; July 29; v. 264; p. 743.
- Foundry Appliance Company, The. (See Frantz, Jerome N., assignor.)
- Foundry Equipment Company, The. (See Coleman, Frederick A., assignor.)
- Foundry Equipment Company, The. (See Coleman and Ambrose, assignors.)
- Four Drive Tractor Co., The. (See Simmons, Jesse C., assignor.)
- 4 in 1 Safety Razor Company. (See Hyman and Moeller, assignors.)
- Fourness, Wilfred, Pasadena, Calif., assignor of one-half to G. T. Voorhees, New York, N. Y. Distilling apparatus. No. 1,306,056; June 10; v. 263; p. 186.
- Fournier, Edmond E., Fall River, Mass., assignor of one-half to A. C. Bodean, Brooklyn, N. Y. Cue-tip holder. No. 1,322,684; Nov. 25; v. 268; p. 604.
- Fournier, George P. (See Lemoine and Fournier.)
- Fouse, Herman, Akron, Ohio. Support for concrete construction. No. 1,300,154; Apr. 8; v. 261; p. 375.
- Foust, Theodore L., Terre Haute, Ind. Invalid-bed. No. 1,291,822; Jan. 21; v. 258; p. 485.
- Foust, Theodore L., Terre Haute, Ind. Patient-handling apparatus for beds. No. 1,312,439; Aug. 5; v. 265; p. 110.
- Foust, Theodore L., Terre Haute, Ind. Invalid-bed. No. 1,317,694; Oct. 7; v. 267; p. 7.
- Fouts, Calvin C., Middletown, Ohio. Truck for handling rolls of belting and the like. No. 1,322,299; Nov. 18; v. 268; p. 480.
- Fouts, Taylor, Camden, Ind. Animal-feeder. No. 1,321,614; Nov. 11; v. 268; p. 301.
- Fouts, William S., Altamont, Kans. Automatic pump. No. 1,321,022; Nov. 4; v. 268; p. 125.
- Foutz, Horace S., Modesto, Calif. Bean-cutter. No. 1,301,829; Apr. 29; v. 261; p. 812.
- Fowler, Albert M., Los Angeles, Calif. Ice-making apparatus. No. 1,301,550; Apr. 22; v. 261; p. 727.
- Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-scouring machine. No. 1,312,529; Aug. 12; v. 265; p. 157.
- Fowler, Alfred B., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Punching-machine. No. 1,308,780; July 8; v. 264; p. 170.
- Fowler, Alfred B., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Knife-grinding machine. No. 1,318,441; Oct. 14; v. 267; p. 210.
- Fowler, Alfred B., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine. No. 1,320,462; Nov. 4; v. 268; p. 20.
- Fowler, Benjamin F., Minneapolis, Minn. Folding bed. No. 1,303,875; May 20; v. 262; p. 326.
- Fowler, Benjamin F., Minneapolis, Minn. Cream-whip. No. 1,310,861; July 22; v. 264; p. 622.
- Fowler, Benjamin F., Minneapolis, assignor to The Wonder Specialty Manufacturing Company, Incorporated, St. Paul, Minn. Bottle-cap remover. No. 1,326,490; Dec. 30; v. 269; p. 773.
- Fowler, Charles H., Boston, Mass. Press. No. 1,307,965; June 24; v. 263; p. 604.
- Fowler, Frank G., Altoona, Pa., assignor to W. P. Murphy, Chicago, Ill. Vestibule-diaphragm buffer-spring. No. 1,299,929; Apr. 8; v. 261; p. 326.
- Fowler, Gilbert J., and G. Mumford, Manchester, England. Fertilizer. No. 1,294,080; Feb. 11; v. 259; p. 289.
- Fowler, Harold, Port Hope, Ontario, Canada. Parlor game. No. 1,300,368; Apr. 15; v. 261; p. 447.
- Fowler, Harold B., assignor to Evans Dollar Pen Company, Waterloo, Iowa. Combination instrument. No. 1,302,783; May 6; v. 262; p. 57.
- Fowler, Jonathan O., New York, N. Y. Sealed, safety, fountain-inkstand. No. 1,303,468; May 13; v. 262; p. 213.
- Fowler, Jonathan O., New York, N. Y. Convertible table, bed, and settle. No. 1,308,523; July 1; v. 264; p. 94.
- Fowler, Jonathan O., New York, N. Y. Convertible state-room and drawing-room car. No. 1,313,531; Aug. 19; v. 265; p. 368.
- Fowler, Le Roy J. (See Skinner and Fowler.)
- Fowler, Leonard E., Loudonville, Ohio. Gear-shifting means for motor-driven vehicles. No. 1,304,955; May 27; v. 262; p. 567.
- Fowler, Paul L., Ogden, Utah. Tool. No. 1,293,073; Feb. 4; v. 259; p. 24.
- Fowler, Paul M. (See Becker, Gustav, assignor.)
- Fowler, Robert G., San Francisco, Calif. Fuselage. No. 1,307,002; June 17; v. 263; p. 395.
- Fowler, Robert L., Perth Amboy, N. J., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Reclamation of discarded mineral-surface roofing. No. 1,290,959; Jan. 14; v. 258; p. 253.
- Fowler, William, assignor of one-half to C. H. Krippendorf, Cincinnati, Ohio. Machine for trimming the canvas of reinforced insoles. No. 1,303,283; May 13; v. 262; p. 181.
- Fowler, William, Cincinnati, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Insole. No. 1,317,968; Oct. 7; v. 267; p. 59.



*Alphabetical list of patentees—Continued.*

- Fowler, William, Cincinnati, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole. No. 1,317,969; Oct. 7; v. 267; p. 59.
- Fowler, William E., Jr., assignor to American Steel Foundries, Chicago, Ill. Integral brake-beam. No. 1,290,160; Jan. 7; v. 258; p. 36.
- Fownes Brothers & Co. (See Marsden, William N., assignor.)
- Fox, Ansley H., Philadelphia, Pa., assignor to Ansley H. Fox Co. Gas-operated machine-gun. No. 1,293,396; Feb. 4; v. 259; p. 98.
- Fox, Ansley H., and W. J. Rice, assignors to Ansley H. Fox Company, Philadelphia, Pa. Gas-operated automatic machine-gun. No. 1,294,892; Feb. 18; v. 259; p. 514.
- Fox, Austen H., New York, and A. W. Lenderoth, Stapleton, N. Y. Magnetic controlling device for railways. No. 1,298,029; Mar. 25; v. 260; p. 579.
- Fox, Austen H., New York, and A. W. Lenderoth, Stapleton, N. Y. Controlling device. No. 1,323,261; Dec. 2; v. 269; p. 7.
- Fox, Catherine A., Chicago, Ill. Attachment for pouches or bags. No. 1,298,193; Mar. 25; v. 260; p. 614.
- Fox, Charles H., Cincinnati, Ohio. Water-heater for auto fire-engines. No. 1,305,791; June 3; v. 263; p. 106.
- Fox Chemical Company, The. (See Larkin, Charles J., assignor.)
- Fox, Edward F. (See Larkin and Fox.)
- Fox, Erbie M. (See Larkin and Fox.)
- Fox, George F. (See Norby, John E., assignor.)
- Fox, Gordon, Evanston, assignor to Mark Manufacturing Company, Chicago, Ill. Pipe-coupling. No. 1,301,245; Apr. 22; v. 261; p. 669.
- Fox, J. Frank. (See Crane, William M., assignor.)
- Fox, James W., Joliet, Ill. Flange-oiler. No. 1,315,487; Sept. 9; v. 266; p. 185.
- Fox, John J., Chicago, Ill. Building structure. No. 1,321,728; Nov. 11; v. 268; p. 323.
- Fox, Lawrence J., New York, N. Y. Cloth-drilling machine. No. 1,308,898; July 8; v. 264; p. 191.
- Fox, Mac L., Columbiaville, Mich. Insecticide-distributor for cultivators. No. 1,312,969; Aug. 12; v. 265; p. 244.
- Fox, Michael B., Philadelphia, Pa. Bed structure for automobiles. No. 1,322,100; Nov. 18; v. 268; p. 442.
- Fox, Samuel, New York, N. Y. Motor-cushioning device. No. 1,325,937; Dec. 23; v. 269; p. 633.
- Fox, Thomas, Belfast, Ireland. Cigarette-holder. No. 1,290,960; Jan. 14; v. 258; p. 253.
- Fox, Thomas S., Brooklyn, N. Y. Printing apparatus. No. 1,326,491; Dec. 30; v. 269; p. 773.
- Fox, Wadie J., Douglas, Okla. Switch-operating mechanism. No. 1,295,149; Feb. 25; v. 259; p. 595.
- Fox, William R., Grand Rapids, Mich. Flexible shaft-coupling. No. 1,304,757; May 27; v. 262; p. 531.
- Fox, William R., Jackson, Mich. Flexible shaft-coupling. No. 1,304,758; May 27; v. 262; p. 531.
- Fox, William R., Jackson, Mich. Flexible shaft-coupling. No. 1,304,759; May 27; v. 262; p. 532.
- Fox, William R., Jackson, Mich. Flexible shaft-coupling. No. 1,314,320; Aug. 26; v. 265; p. 551.
- Foxboro Company, The. (See Bristol, Edgar H., assignor.)
- Foy, Patrick J., Chicago, Ill. Traffic-signaling device. No. 1,300,369; Apr. 15; v. 261; p. 448.
- Foyer, Alexander R., Ottoshoop, Transvaal, South Africa. Adjustable and registering level. No. 1,292,595; Jan. 28; v. 258; p. 696.
- Fraas, August C., South Milford, Ind. Furnace. No. 1,293,074; Feb. 4; v. 259; p. 24.
- Fraber, Thomas J., Washington, D. C. Composition lath. No. 1,325,241; Dec. 16; v. 269; p. 487.
- Frackelton, David W. (See Miller and Frackelton.)
- Frankel, Sigmund, and E. Herrmann, Vienna, Austria, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Hormones and phosphatides and obtaining same. No. 1,314,321; Aug. 26; v. 265; p. 551.
- Frahm, Charley, Westbrook, Minn. Grain-shock loader. No. 1,296,644; Mar. 11; v. 260; p. 221.
- Frain, George, Kokomo, Ind. Letter and bundle tie. No. 1,316,293; Sept. 16; v. 266; p. 357.
- Framburg, Henry A., Berwyn, Ill. Electric-lighting fixture. No. 1,321,023; Nov. 4; v. 268; p. 126.
- Frame, Bruce, Portland, Oreg. Street-sweeper. No. 1,301,927; Apr. 29; v. 261; p. 831.
- Frame, William J., London, England. Multistage centrifugal fan and pump. No. 1,309,282; July 8; v. 264; p. 263.
- Franc, Joseph M. E., St. Vallier, France. Tire-pump for automobiles. No. 1,310,332; July 15; v. 264; p. 493.
- Franc, Joseph M. E., St. Vallier, France. Washing, rinsing, and wringing machine. No. 1,312,393; Aug. 5; v. 265; p. 101.
- Francart, Henri, Herne Hill, London, England. Furnace, kiln, oven, and the like. No. 1,314,486; Aug. 26; v. 265; p. 583.
- France, Merle C., Cleveland, Ohio. Insulated-wire-stripping machine. No. 1,306,588; June 10; v. 263; p. 286.
- Francis, Alvin A., assignor of one-third to S. S. Zwang and one-third to D. W. Wilbur, Marcus, Wash. Shipping-crate. No. 1,322,419; Nov. 18; v. 268; p. 503.
- Francis, Arthur E., Cleveland, Ohio. Electric switch. No. 1,303,876; May 20; v. 262; p. 327.
- Francis, Arthur E., Cleveland, assignor, by mesne assignments, to The Caskey Dupree Company, Marietta, Ohio. Electric multiple switch. No. 1,306,885; June 17; v. 263; p. 374.
- Francis, Charles E., Westminster, London, assignor to Vickers Limited, Westminster, England. Sewing-machine. No. 1,323,262; Dec. 2; v. 269; p. 7.
- Francis, Charles J. (See Francis, William H., assignor.)
- Francis, Charles K., and D. G. Morgan, assignors of one-half to Cosden & Company, Tulsa, Okla. Refining petroleum products. No. 1,313,629; Aug. 19; v. 265; p. 386.
- Francis, Earl H., Kansas City, Mo. Automatic cut-out for film-rewinds. No. 1,314,055; Aug. 26; v. 265; p. 500.
- Francis, John R., Rochester, N. Y. Automatic hasp-lock. No. 1,307,966; June 24; v. 263; p. 604.
- Francis, Vincent H., Drumright, Okla., assignor to Frick-Reid Supply Company, Pittsburgh, Pa. Fishing-tool. No. 1,324,500; Dec. 9; v. 269; p. 287.
- Francis, Walter C., Clarksburg, W. Va. Tire-armor. No. 1,300,946; Apr. 15; v. 261; p. 570.
- Francis, William H., assignor of one-third to C. J. Francis, Gallipolis, Ohio. Water-heater. No. 1,315,296; Sept. 9; v. 266; p. 160.
- Francisco, Emma T., Chicago, Ill. Furniture. No. 1,295,296; Feb. 25; v. 259; p. 628.
- Francisco, Joseph B., Columbus, Ohio. Automobile-heater. No. 1,294,438; Feb. 18; v. 259; p. 409.
- Frank-Philpson, Axel F., Chicago, Ill. Removing natural enamel from the surface of ratan, &c. No. 1,296,553; Mar. 4; v. 260; p. 165.
- Frank, Val F., Louisville, Ky. Pipe-coupling. No. 1,298,687; Apr. 1; v. 261; p. 14.
- Franko, Cesare, New York, N. Y. Power-developing machine. No. 1,304,298; May 20; v. 262; p. 404.
- Franko, John, San Francisco, Calif. Tractor-tread. No. 1,305,593; June 3; v. 263; p. 70.
- Francœur, Joseph A., Montreal, Quebec, Canada. Furnace. No. 1,295,473; Feb. 25; v. 259; p. 669.
- Francois, Petrus J., Quebec, Quebec, Canada. Projectile. No. 1,303,877; May 20; v. 262; p. 327.
- Frandle, Samson, assignor to National Biscuit Company, New York, N. Y. Dough-brake and attachment therefor. No. 1,291,468; Jan. 14; v. 258; p. 371.
- Frank Adam Electric Company. (See Adam, Frederick B., assignor.)
- Frank, Alexander, and E. C. Kopstein, New York, N. Y. Combination-weapon. No. 1,323,973; Dec. 2; v. 269; p. 141.
- Frank, August C., Hayward, Cal. Soot-trap. No. 1,290,961; Jan. 14; v. 258; p. 254.
- Frank C. Mathers & Jacob Papish. (See Mathers and Papish, assignors.)
- Frank, Edwin, Philadelphia, Pa. Measuring-tape. No. 1,312,172; Aug. 5; v. 265; p. 60.
- Frank, Emil R., assignor of one-half to H. R. Dealy, Sioux City, Iowa. Oil and gasoline measure. No. 1,301,677; Apr. 22; v. 261; p. 752.
- Frank F. Smith Hardware Company. (See Smith, Frank F., assignor.)
- Frank, George, Tikonka, Iowa. Closure-cap. No. 1,325,284; Dec. 16; v. 269; p. 495.
- Frank, Harrison J. L., Detroit, Mich. Knife-blade switch. No. 1,303,284; May 13; v. 262; p. 181.
- Frank, Harry S., assignor to Inland Machine Works, St. Louis, Mo. Manufacture of piston-rings. No. 1,295,150; Feb. 25; v. 259; p. 595.
- Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Oil-filled lead-bushing. No. 1,304,469; May 20; v. 262; p. 439.
- Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,315,827; Sept. 9; v. 266; p. 255.
- Frank, John K., New Albany, Ind. Car-replacing chock. No. 1,325,285; Dec. 16; v. 269; p. 495.
- Frank, John M., assignor to Ilg Electric Ventilating Company, Chicago, Ill. Unit for heating and ventilating systems. No. 1,295,151; Feb. 25; v. 259; p. 595.
- Frank, Joseph. (See Benz, Frederick, Jr., assignor.)
- Frank, Joseph, Chicago, Ill. Pipe-bending machine. No. 1,293,397; Feb. 4; v. 259; p. 98.
- Frank, Karl G. (See Sticht and Frank.)
- Frank, Leopold H., East Orange, assignor to L. di Rebaylio, Newark, N. J. Adjustable cover for boxes. No. 1,326,333; Dec. 30; v. 269; p. 743.
- Frank, Max, New York, and H. Froehlich, Brooklyn, N. Y. Doll-eye-actuating device. No. 1,309,884; July 15; v. 264; p. 412.
- Frank, Maxwell C., Piedmont, Calif. Luminous indicator. No. 1,321,024; Nov. 4; v. 268; p. 126.
- Frank, Maxwell C., Piedmont, assignor of one-half to N. Le Vene, San Francisco, Calif. Pneumatic tire. No. 1,322,777; Nov. 25; v. 268; p. 621.
- Frank, Morris, Jacksonville, Fla. Tie-pin-display device. No. 1,290,962; Jan. 14; v. 258; p. 254.
- Frank S. Betz Company. (See Curtis, Louis R., assignor.)
- Frank, William E., assignor to Foster Bros. Mfg. Co., St. Louis, Mo. Folding davenport. No. 1,306,475; June 10; v. 263; p. 266.
- Franko, Albert J., et al. (See Jacobs, Alexander L., assignor.)



- Franke, Arthur H., Manitowoc, Wis. Making comb-cases. No. 1,298,030; Mar. 25; v. 260; p. 579.  
 Franke, Arthur H., Manitowoc, Wis. Phonograph-stop mechanism. No. 1,302,650; May 6; v. 262; p. 32.  
 Franke, Emil, Long Island City, N. Y. Piston-ring device. No. 1,316,705; Sept. 23; v. 266; p. 484.  
 Franke, Johan F., Santa Ana, Calif. Walnut-picker. No. 1,298,923; Apr. 1; v. 261; p. 70.  
 Franke, Johan F., Santa Ana, Calif. Can-opener. No. 1,323,852; Dec. 2; v. 269; p. 118.  
 Franke, Louis N., *et al.* (See Jacobs, Alexander L., assignor.)  
 Frankel, Edward M. (See Falk and Frankel.)  
 Frankel, Emil. (See Billington, Arthur R., assignor.)  
 Frankenberg, Julius, Chicago, Ill. Air-refrigerating machine. No. 1,295,724; Feb. 25; v. 259; p. 728.  
 Frankland, Alexander J., Berkeley, Calif. Sanitary spoon. No. 1,312,111; Aug. 5; v. 265; p. 49.  
 Franklin Barn Equipment Company. (See Franklin, Ray W., assignor.)  
 Franklin Brass Manufacturing Company. (See MacIndoe, John F., assignor.)  
 Franklin, Charles S. (See Marconi and Franklin.)  
 Franklin, Charles S., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Aerial for wireless signaling. No. 1,296,177; Mar. 4; v. 260; p. 84.  
 Franklin, Charles S., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Receiver for wireless signals. No. 1,301,246; Apr. 22; v. 261; p. 669.  
 Franklin, Charles S., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Wireless-telegraph transmitter. No. 1,304,868; May 27; v. 262; p. 552.  
 Franklin, Charles S., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Aerial conductor for wireless telegraphy. No. 1,322,101; Nov. 18; v. 268; p. 442.  
 Franklin, Frederick W. (See Baker and Franklin.)  
 Franklin, George E., assignor of one-third to J. Tramcked and one-third to F. E. Hoskins, Detroit, Mich. Combination manifold and carburetor. No. 1,324,806; Dec. 16; v. 269; p. 406.  
 Franklin, Granvel, Flint, Mich. Receptacle. No. 1,316,023; Sept. 16; v. 266; p. 306.  
 Franklin, Henry K., New York, N. Y. Sterilizing apparatus for hypodermic syringes. No. 1,307,249; June 17; v. 263; p. 440.  
 Franklin, Henry T., assignor of one-half to M. E. Hood, Dawmont, W. Va. Coal-loading machine. No. 1,304,869; May 27; v. 262; p. 552.  
 Franklin, Ira S., Boston, Mass. Closet-seat and making the same. No. 1,315,488; Sept. 9; v. 266; p. 195.  
 Franklin, James H., Keokuk, Iowa. Show-case attachment. No. 1,315,922; Sept. 9; v. 266; p. 274.  
 Franklin, John A., Pittsburgh, Pa. Vehicle-wheel. No. 1,322,685; Nov. 25; v. 268; p. 604.  
 Franklin, John E., Udall, Kans., assignor to J. F. Saye, Galena, Mo. Cultivator attachment. No. 1,301,116; Apr. 22; v. 261; p. 642.  
 Franklin, Milton W., assignor to E. F. Houghton & Company, Philadelphia, Pa. Lubricator. No. 1,325,563; Dec. 23; v. 269; p. 563.  
 Franklin, Ray W., assignor to Franklin Barn Equipment Company, Monticello, Iowa. Connecting device. No. 1,301,417; Apr. 22; v. 261; p. 702.  
 Franklin, Ray W., assignor to Franklin Barn Equipment Company, Monticello, Iowa. Rail and cable connection. No. 1,317,695; Oct. 7; v. 267; p. 7.  
 Franklin, Ray W., assignor to Franklin Barn Equipment Company, Monticello, Iowa. Stanchion. No. 1,322,686; Nov. 25; v. 268; p. 605.  
 Franklin, Robert M., Galveston, Tex. Net-frame. No. 1,291,469; Jan. 14; v. 258; p. 371.  
 Franklin Valveless Engine Co., The. (See Wood, Samuel, assignor.)  
 Franks, Alfred, Ilford, England. Differential gear. No. 1,325,938; Dec. 23; v. 269; p. 633.  
 Franks, George J., Alameda, Calif. Writing-pad. No. 1,313,944; Aug. 26; v. 265; p. 479.  
 Fransson, Sven W., Brooklyn, N. Y. Cutting and welding torch. No. 1,290,536; Jan. 7; v. 258; p. 126.  
 Frantz, Edward L., trustee. (See Baker, Corol R., assignor.)  
 Frantz, Jerome N., assignor to The Foundry Appliance Company, Newark, N. J. Molding-machine. No. 1,290,161; Jan. 7; v. 258; p. 36.  
 Frantz, Jerome N., assignor to The Foundry Appliance Company, Newark, N. J. Molding-machine. No. 1,309,126; July 8; v. 264; p. 235.  
 Frantz Premier Co., The. (See Sherbondy, Earl H., assignor.)  
 Frantzen, Arthur. (See Hartwig, William G., assignor.)  
 Franz-Yahn Service, The. (See Fletcher, John E., assignor.)  
 Franzen, Ernest T., Jamaica, N. Y. Automatic rail-lubricator. No. 1,311,505; July 29; v. 264; p. 775.  
 Franzon, Leonard A., Brooklyn, N. Y. Grinding and cutting machine. No. 1,306,423; June 10; v. 263; p. 256.  
 Franzheim, May W., Wheeling, W. Va. Kitchen-sink. No. 1,296,178; Mar. 4; v. 260; p. 84.  
 Franzmann, Emile C. (See Deitrick and Franzmann.)  
 Frasch, Hans A., New York, N. Y. Dyestuff. No. 1,308,060; July 1; v. 264; p. 10.  
 Frasch, Hans A., New York, N. Y. Method of and apparatus for distillation. No. 1,318,657; Oct. 14; v. 267; p. 251.  
 Frasch, Hans A., New York, N. Y. Dyestuff. No. 1,323,263; Dec. 2; v. 269; p. 7.  
 Frasca, Manlio, Los Angeles, Calif. Combination embroidery table and frame with turnable rings. No. 1,322,891; Nov. 25; v. 268; p. 643.  
 Fraser, Donald, assignor to Chain Belt Company, Milwaukee, Wis. Conveying and distributing apparatus. No. 1,290,537; Jan. 7; v. 258; p. 127.  
 Fraser, George, Topeka, Kans. Grease-cup. No. 1,296,943; Mar. 11; v. 260; p. 291.  
 Fraser, George H., Brooklyn, N. Y. Separator. No. 1,317,014; Sept. 23; v. 266; p. 540.  
 Fraser, George H., Brooklyn, N. Y. Separator. No. 1,317,015; Sept. 23; v. 266; p. 541.  
 Fraser, Gordon H., *et al.* (See Kitchen, John G. A., assignor.)  
 Fraser, Le Roy B., New Haven, Conn. Method of and apparatus for imposing form elements. No. 1,313,082; Aug. 12; v. 265; p. 266.  
 Fraser, Lester C., assignor of one-half to J. W. G. Curtiss, Los Angeles, Calif. Combination valve and oil-burner. No. 1,304,299; May 20; v. 262; p. 405.  
 Fraser, Norman D. (See Ellithorpe, Gilbert S., assignor.)  
 Fraser, Richard C., Central City, assignor of one-third to W. R. Fraser, Durango, Colo. Post-hole digger. No. 1,305,792; June 3; v. 263; p. 106.  
 Fraser, William C., Milwaukee, Wis. Combination tray and book-rack. No. 1,299,164; Apr. 1; v. 261; p. 125.  
 Fraser, William R. (See Fraser, Richard C., assignor.)  
 Frashier, William H., Athelstan, Ark. Cultivator. No. 1,300,596; Apr. 15; v. 261; p. 495.  
 Frasier, Lee, Frederick, Okla. Stovepipe-cleaner. No. 1,310,525; July 22; v. 264; p. 560.  
 Frazee, Frank D., assignor of one-half to F. A. Manning, Springfield, Ill. Bow-pad for vehicle-tops. No. 1,306,886; June 17; v. 263; p. 374.  
 Frazier, Charles R., San Francisco, Cal. Four-cycle explosion-engine. No. 1,292,748; Jan. 28; v. 258; p. 732.  
 Frazier, Ray, and B. J. Robertson, assignors to Lyle Corrugated Culvert Company, Minneapolis, Minn. Milling-machine. No. 1,296,066; Mar. 4; v. 260; p. 57.  
 Frazier, Bert C., Wichita, Kans. Counterbalancing-hook. No. 1,313,807; Aug. 19; v. 265; p. 419.  
 Frazier, Charles R. (See Smith, Martin C., assignor.)  
 Frazier, Frederick. (See Holden and Pendleton, assignors.)  
 Frazier, George W. (See Harrison and Frazier.)  
 Frazier, James W., Cleveland, Ohio. Coaling system. No. 1,313,375; Aug. 19; v. 265; p. 338.  
 Frazier, James W., Cleveland, Ohio. Coaling system. No. 1,321,025; Nov. 4; v. 268; p. 126.  
 Frazier, James W., and F. E. Hansen, Cleveland, Ohio. Hose connection. No. 1,295,474; Feb. 25; v. 259; p. 669.  
 Frazier, Julius O., New Orleans, La. By-passed-flue-gas cane-juice heater. No. 1,311,336; July 29; v. 264; p. 743.  
 Frazier, Orville Z., assignor of one-half to J. F. Boyer, Elkhart, Ind. Internal-combustion engine. No. 1,315,954; Sept. 16; v. 266; p. 294.  
 Frazier, Ralph E., Baltimore, Md. Bell-crank lever and support for use with wigglers. No. 1,306,424; June 10; v. 263; p. 256.  
 Frazier, Roy H., Toledo, Ohio. Brake-adjuster for locomotives. No. 1,291,470; Jan. 14; v. 258; p. 371.  
 Fream, James M. (See Cannon and Fream.)  
 Frear, Clark E., Lake Winola, Pa. Crutch extension for artificial legs. No. 1,314,795; Sept. 2; v. 266; p. 60.  
 Freas, Francis L., Conshohocken, Pa. Thermometer. No. 1,316,780; Sept. 23; v. 266; p. 497.  
 Freckleton, George W. (See Davis, Sylvanus E., assignor.)  
 Fred H. Knapp Company. (See Dewey, Haywood G., assignor.)  
 Fred Medart Manufacturing Company. (See Albach, Frank, assignor.)  
 Fred Medart Manufacturing Company. (See Medart, Philip S., assignor.)  
 Frede, Charles F., assignor to Cast Steel Locomotive Ash Pan Company, St. Louis, Mo. Locomotive ash-pan. No. 1,321,297; Nov. 11; v. 268; p. 241.  
 Frederick, Charles W., and F. E. Ross, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic objective. No. 1,306,958; June 17; v. 263; p. 387.  
 Frederick, Charles W., and F. E. Altman, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic objective. No. 1,309,847; July 15; v. 264; p. 405.  
 Frederick, Frank A., West Hoboken, N. J. Garbage-receptacle. No. 1,297,823; Mar. 18; v. 260; p. 509.  
 Frederick, Louis T., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Mica-building apparatus. No. 1,300,370; Apr. 15; v. 261; p. 448.



## Alphabetical list of patentees—Continued.

- Frederick, Louis T., Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Composite product. No. 1,318,742; Oct. 14; v. 267; p. 267.
- Frederick, Louis T., Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Composite product. No. 1,318,743; Oct. 14; v. 267; p. 268.
- Frederick, Louis T., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molding long plates. No. 1,321,517; Nov. 11; v. 268; p. 282.
- Frederick, Louis T., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making rods, cylinders, and the like. No. 1,323,039; Nov. 25; v. 268; p. 671.
- Frederick Osann Company. (See Bublitz, Charles W., assignor.)
- Frederick Osann Company. (See Lyons, Robert L., assignor.)
- Frederick Osann Company. (See Masterson, James H., assignor.)
- Frederick Osann Company. (See McCann, Michael, assignor.)
- Frederick Osann Company. (See Olleo, Ralph, assignor.)
- Frederick, Theodore, Hammond, Ind. Sugar-dispensing device. No. 1,296,788; Mar. 11; v. 260; p. 254.
- Frederick, William A., Boston, Mass. Circuit-controlling button. No. 1,307,856; June 24; v. 263; p. 584.
- Fredette, John, Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Blade-forming apparatus. No. 1,322,005; Nov. 18; v. 268; p. 424.
- Fredricksen, John C., Miller, assignor of one-third to A. T. Thompson, Hammond, Ind. Air-compressor. No. 1,310,471; July 22; v. 264; p. 550.
- Fredericks, Ernest O. (See Speckerman, Ernest O.)
- Fredricksson, Hildor, assignor of one-half to C. Bloomberg, Chicago, Ill. Carburetor attachment. No. 1,302,534; May 6; v. 262; p. 11.
- Fredrick, William D., and W. E. Glaspey, Bridgeton, assignors to Millville Machine Company, Millville, N. J. Vial-bottoming machine. No. 1,322,779; Nov. 25; v. 268; p. 622.
- Fredrick, William D., W. E. Glaspey, and C. F. Cox, Bridgeton, assignors to Millville Machine Company, Millville, N. J. Vial-necking machine. No. 1,322,778; Nov. 25; v. 268; p. 622.
- Fredricksen, John C., assignor to John C. Fredricksen Manufacturing Co., Miller, Ind. Explosive-engine. No. 1,318,371; Oct. 14; v. 267; p. 197.
- Fredricksen, Christian, Rice Lake, Wis. Fruit-grading machine. No. 1,322,420; Nov. 18; v. 268; p. 503.
- Fredriksen, Carl, Lackawanna, N. Y. Direction-signal for vehicles. No. 1,304,172; May 20; v. 262; p. 380.
- Fredson, Samuel C., Kenosha, Wis. Toy. No. 1,311,337; July 29; v. 264; p. 743.
- Fredson, Samuel C., Savannah, Ga. Scraper. No. 1,311,338; July 29; v. 264; p. 743.
- Free, William R., Piqua, Ohio. Gramophone-amplifier. No. 1,318,201; Oct. 7; v. 267; p. 103.
- Freeborn, Cornelius C., Sr., New Milford, N. J. Transparent closure for cans. No. 1,308,703; July 1; v. 264; p. 127.
- Freed, Adolph N. and O. E., Rockford, Ill. Combination flash-light and toilet article. No. 1,321,026; Nov. 4; v. 268; p. 126.
- Freed, Benjamin F., Young America, Ind. Wire-splicer. No. 1,316,294; Sept. 16; v. 266; p. 357.
- Freed, Lemul S., Philadelphia, Pa. Electrotape-coating machine. No. 1,319,327; Oct. 21; v. 267; p. 405.
- Freed, Liebh B., Williamstown, Ohio. Power-attachment. No. 1,311,339; July 29; v. 264; p. 744.
- Freed, Oscar E. (See Freed, Adolph N. and O. E.)
- Freedman, Hyman and N. M., Chicago, Ill., assignors to Davenport Bed Company. Davenport-bed structure. No. 1,296,278; Mar. 4; v. 260; p. 105.
- Freedman, Louis A., New York, N. Y. Winding mechanism for talking-machines. No. 1,312,624; Aug. 12; v. 265; p. 177.
- Freedman, Max, Brookline, Mass. Tire. No. 1,307,730; June 24; v. 263; p. 561.
- Freedman, Nathan M. (See Freedman, Hyman and N. M.)
- Friel, Daniel B., Detroit, Mich. Protector for pneumatic tires. No. 1,311,340; July 29; v. 264; p. 744.
- Freeman, Arthur E., Toronto, Ontario, Canada. Boat-davit. No. 1,292,294; Jan. 21; v. 258; p. 602.
- Freeman, Arthur E., Toronto, Ontario, Canada. Chock-fitting for boats. No. 1,322,003; Nov. 18; v. 268; p. 424.
- Freeman, Charles C., Broken Hill, New South Wales, Australia. Differential flotation concentration of sulfid ores and raw ore products. No. 1,301,551; Apr. 22; v. 261; p. 727.
- Freeman, Charles H., Bloomington, Ill. Eccentric-driven pump. No. 1,314,322; Aug. 26; v. 265; p. 551.
- Freeman-Daughaday Company. (See Le Clair, Frank J., assignor.)
- Freeman, Everett W., Brooklyn, N. Y. Powder-box. No. 1,300,155; Apr. 8; v. 261; p. 376.
- Freeman, Frank L., Omaha, Neb. Front-wheel drive mechanism for motor-vehicles. No. 1,303,285; May 13; v. 262; p. 181.
- Freeman, Harry G., assignor of one-half to W. H. Bartlett, Atlantic City, N. J. Junction-box for cable-splices. No. 1,300,213; Apr. 8; v. 261; p. 388.
- Freeman, Harry S., Detroit, and F. Zenker, Highland Park, assignor to Square D Company, Detroit, Mich. Electric switch. No. 1,315,599; Sept. 9; v. 266; p. 215.
- Freeman, Horace, Niagara Falls, Ontario, Canada, assignor to American Cyanamid Company, New York, N. Y. Producing alkali metals from their chlorids. No. 1,319,148; Oct. 21; v. 267; p. 372.
- Freeman, Howard B., et al. (See Marshall, Harry P., assignor.)
- Freeman, James D. (See Baldwin and Freeman.)
- Freeman, James M. (See Walker, Marlon L., assignor.)
- Freeman, Joseph W., assignor of one-half to C. E. Bright, Columbus, Ohio. Combined casket and grave-vault. No. 1,298,688; Apr. 1; v. 261; p. 15.
- Freeman Manufacturing Company. (See Dearsley, John W., assignor.)
- Freeman, William A., assignor to W. A. Freeman Company Limited, Hamilton, Ontario, Canada. Refrigerated-display-counter top. No. 1,304,956; May 27; v. 262; p. 568.
- Freeman, William J. (See Johnson, Frank A., assignor.)
- Freer, Frank L., Bronx, N. Y. Mechanical movement. No. 1,317,917; Oct. 7; v. 267; p. 48.
- Freer, Phelps M., Detroit, Mich. Internal-combustion engine. No. 1,292,295; Jan. 21; v. 258; p. 602.
- Freer, Phelps M., Detroit, Mich. Packing-ring. No. 1,311,159; July 29; v. 264; p. 710.
- Freer, Robert R., Cleveland, Ohio. Ventilator. No. 1,292,411; Jan. 21; v. 258; p. 629.
- Frees, Hans P., Brayton, Nebr. Work-stand for automobile-engines. No. 1,311,685; July 29; v. 264; p. 808.
- Freeze, Earl C., Marietta, Ohio. Magneto. No. 1,292,296; Jan. 21; v. 258; p. 602.
- Freeze, Frank G., Aldan, Pa. Internal-combustion motor and valve therefor. No. 1,299,320; Apr. 1; v. 261; p. 160.
- Freeth, Francis A., Great Crosby, and H. E. Cockledge, London, England. Separation and recovery of potassium salts from commercial nitrate of soda containing such salts. No. 1,300,947; Apr. 15; v. 261; p. 570.
- Freeth, Francis A., Sandiway, and H. E. Cockledge, London, England. Manufacture of ammonium nitrate. No. 1,301,047; Apr. 15; v. 261; p. 592.
- Frehofor Baking Company. (See Hottmann, Paul A., assignor.)
- Frelle, Bruce. (See De Vignier and Frelle.)
- Freitag, Louis E., Baker, Oreg. Spoon-handle. No. 1,302,784; May 6; v. 262; p. 57.
- Freiwald, Gustav, Portland, Oreg. Curtain-stretcher. No. 1,298,323; Mar. 25; v. 260; p. 641.
- Freiwald, Gustav, Portland, Oreg. Delivery-box. No. 1,316,152; Sept. 16; v. 266; p. 330.
- Frelinghuysen, George G., Morris county, and L. A. Hawthorne, Newark, N. J., assignors to Steel Utilities, Incorporated. Cask-washing machine. No. 1,298,489; Mar. 25; v. 260; p. 677.
- French, Alfred W., Piqua, Ohio. Apparatus for drying stone or other material. No. 1,308,942; July 8; v. 264; p. 199.
- French, Alfred W., Piqua, Ohio. Apparatus for separating solid matter from liquids. No. 1,308,943; July 8; v. 264; p. 200.
- French, Alfred W., Piqua, Ohio. Cage and drainage-plate for oil-expressing presses. No. 1,311,160; July 29; v. 264; p. 710.
- French Battery & Carbon Company. (See Ford, Joseph C., assignor.)
- French Battery & Carbon Company. (See Graves, John, assignor.)
- French Battery & Carbon Co. (See Ruboff, Otto E., assignor.)
- French, Charles L., Chicago, Ill. Attachment for bedsteads. No. 1,322,421; Nov. 18; v. 268; p. 503.
- French, Frank H. (See Brunette, Louis, assignor.)
- French, Harry F. (See Benner and French.)
- French, Fred W., Grandville, Mich. Demountable-wheel construction. No. 1,297,673; Mar. 18; v. 260; p. 476.
- French, Fred W., Grandville, Mich. Wheel. No. 1,310,069; July 15; v. 264; p. 445.
- French, Harry F. (See Benner and French.)
- French, Harry F., Fremont, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electric battery. No. 1,303,286; May 13; v. 262; p. 181.
- French, Harry F., and R. C. Benner, Fremont, Ohio, assignors, by mesne assignments, to National Carbon Company, Inc. Dry cell. No. 1,295,475; Feb. 25; v. 259; p. 669.
- French, Harry M., Norwood, Mass. Coating-machine. No. 1,302,352; Apr. 29; v. 261; p. 911.
- French & Hecht. (See Einfeldt, Emil, assignor.)
- French and Hecht. (See Einfeldt, Ernest E., assignor.)
- French & Hecht. (See Hecht, Joseph L., assignor.)
- French, James C., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Swivel-truck for dipper-excavators. No. 1,294,439; Feb. 18; v. 259; p. 409.
- French, James C., assignor to F. C. Austin, Chicago, Ill. Grade-line indicator. No. 1,300,371; Apr. 15; v. 261; p. 448.



- French, James C., assignor to F. C. Austin, Chicago, Ill. Tractor-track. No. 1,306,178; June 10; v. 263; p. 208.
- French, James C., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Mixing-machine. No. 1,314,390; Aug. 26; v. 265; p. 565.
- French, James C., assignor to F. C. Austin, Chicago, Ill. Machine for handling materials. No. 1,317,696; Oct. 7; v. 267; p. 7.
- French, James C., assignor to F. C. Austin, Chicago, Ill. Excavator shield and side cutter. No. 1,317,697; Oct. 7; v. 267; p. 7.
- French, James W., assignor to Barr and Stroud Limited, Glasgow, Scotland. Periscope and like instrument casing. No. 1,298,632; Mar. 25; v. 260; p. 706.
- French, James W., assignor to Barr and Stroud Limited, Anniesland, Glasgow, Scotland. Periscope and like instrument. No. 1,316,438; Sept. 16; v. 266; p. 385.
- French, James W., Anniesland, Glasgow, Scotland, assignor to Barr and Stroud Limited. Eyepiece prism combination for use in optical instruments of the self-contained base type adapted to be used for range-finding. No. 1,322,780; Nov. 25; v. 268; p. 622.
- French, John R., Los Angeles, Cal. Surgical splint. No. 1,295,297; Feb. 25; v. 259; p. 628.
- French, Laurence E. (See Brown, Samuel B., assignor.)
- French, Laurence E., Sebastopol, Calif. Printing-device attachment. No. 1,300,597; Apr. 15; v. 261; p. 496.
- French, Morgan C., Denver, Colo. Anticlog tractor-wheel. No. 1,323,687; Dec. 2; v. 269; p. 87.
- French Oil Mill Machinery Co., The. (See Schwable, Frederick J., assignor.)
- French, Theodore H. (See Gregor and French.)
- French Wax Figure Company. (See Schaetzke, Ferdinand A., assignor.)
- French, William H., Detroit, Mich. Ironing-board. No. 1,320,850; Nov. 4; v. 268; p. 92.
- Frensdorff, Herman R., Kimberly, Wis. Gun-sight. No. 1,307,441; June 24; v. 263; p. 508.
- Freschi, Sylvester, Keansburg, N. J. Envelop. No. 1,297,555; Mar. 18; v. 260; p. 451.
- Freshour, Henry C., Pitman, N. J. Chain-pump bucket. No. 1,319,468; Oct. 21; v. 267; p. 432.
- Fretz, Howard M. (See Shorday, Walter W., assignor.)
- Freuder, Leo, Brooklyn, N. Y. Lithography. No. 1,325,890; Dec. 23; v. 269; p. 625.
- Freund, Max, New York, N. Y. Bill-fold. No. 1,310,010; July 15; v. 264; p. 435.
- Freund, Otto A., New York, N. Y., assignor to American Telephone and Telegraph Company. System of generating electrical currents. No. 1,326,719; Dec. 30; v. 269; p. 816.
- Frey, August J., assignor to Brass Goods Mfg. Co., Brooklyn, N. Y. Tube-compressor. No. 1,297,456; Mar. 18; v. 260; p. 430.
- Frey, August J., assignor to Brass Goods Mfg. Co., Brooklyn, N. Y. Faucet clamp or coupling. No. 1,306,476; June 10; v. 263; p. 266.
- Frey, Charles. (See Geist and Frey.)
- Frey, Charles. (See Wright, Judson E., assignor.)
- Frey, Charles P. (See Brown, Frey, and Wagner.)
- Frey, George E., Steubenville, assignor of one-half to R. E. Snider, Mingo Junction, Ohio. Cross-tie and rail-clamp therefor. No. 1,322,781; Nov. 25; v. 268; p. 622.
- Frey, George W., assignor to The Compressed Wood Preserving Company, Cincinnati, Ohio. Paving-block. No. 1,299,453; Apr. 8; v. 261; p. 219.
- Frey, Herbert H., assignor to E. L. Reynolds, Chicago, Ill. Spark-plug cleaner. No. 1,319,577; Oct. 21; v. 267; p. 453.
- Frey, Ivan C., York, Pa. Brickmaking-machine. No. 1,301,048; Apr. 15; v. 261; p. 592.
- Frey, Ivan C., York, Pa. Brick-mold-handling apparatus. No. 1,306,477; June 10; v. 263; p. 266.
- Frey, John E. (See Berrill and Frey.)
- Freyer, Otto, Chicago, Ill. Pistol-holster. No. 1,320,751; Nov. 4; v. 268; p. 74.
- Freyon and Company. (See Freyn, Heinrich J., assignor.)
- Freyn, Heinrich J., assignor, by mesne assignments, to Freyn and Company, Chicago, Ill. Gas-cleaning apparatus. No. 1,316,091; Sept. 16; v. 266; p. 319.
- Freyseong Cork Company. (See Gain, Harry W., assignor.)
- Freytag, Otto, Boise, Idaho. Circuit-interrupter for traffic-signals. No. 1,305,649; June 3; v. 263; p. 80.
- Friar, Michael, Blanchard, N. D. Storm-sash and door-faster. No. 1,295,725; Feb. 25; v. 259; p. 728.
- Fricano, Gnetano, Buffalo, N. Y. Calendar-clock. No. 1,300,372; Apr. 15; v. 261; p. 449.
- Frick Company. (See Manns, William H., assignor.)
- Frick Company. (See Oderman, Erick H., assignor.)
- Frick, D. Roy, Alma, Mich. Transmission-gearing. No. 1,305,208; May 27; v. 262; p. 616.
- Frick, Frederick F. (See Laist, Frick, and Oliver.)
- Frick, Frederick. (See Roach and Frick.)
- Frick, Henry N., Philadelphia, Pa. Grease-cup. No. 1,296,944; Mar. 11; v. 260; p. 291.
- Frick, John, Philadelphia, Pa. Expandible projectile. No. 1,318,858; Oct. 14; v. 267; p. 289.
- Frick, Joseph L., and H. G. Clemenger, Jamestown, N. Y. Traction locomotive and car. No. 1,298,194; Mar. 25; v. 260; p. 614.
- Frick, Margaret S., administratrix. (See Shelly, William K.)
- Frick-Reid Supply Company. (See Francis, Vincent H., assignor.)
- Fricke, Charles C., Chicago, Ill., assignor to The Phoenix Glass Company, Pittsburgh, Pa. Diffuser. No. 1,293,748; Feb. 11; v. 259; p. 210.
- Fricker, Anthony, Cleveland, Ohio. Discharge mechanism for bituminous distributors. No. 1,297,135; Mar. 11; v. 260; p. 333.
- Fricker, Anthony, Cleveland, Ohio. Bituminous distributor. No. 1,297,136; Mar. 11; v. 260; p. 333.
- Fricker, Anthony, Lakewood, Ohio. Bituminous distributor. (Reissue.) No. 14,668; June 17; v. 263; p. 455.
- Fricker, Anthony, Cleveland, Ohio. Discharge mechanism for bituminous distributors. No. 1,325,513; Dec. 23; v. 269; p. 554.
- Friday, Aaron O. (See Gibson and Friday.)
- Friday, Wilbur L., Iron Bridge, Wis. Fork for handling cans. No. 1,294,440; Feb. 18; v. 259; p. 410.
- Fridde, James A., deceased, Cleveland, Ohio; M. C. Fridde, executrix. Pedal-control mechanism for motor-vehicles. No. 1,321,615; Nov. 11; v. 268; p. 301.
- Fridde, Matilda C., executrix. (See Fridde, James A.)
- Frie, Joseph, Fountain City, Wis. Non-skid tire-chain. No. 1,318,064; Oct. 7; v. 267; p. 77.
- Frieband, Nicholas, Shenandoah, Pa. Cap. No. 1,290,162; Jan. 7; v. 258; p. 36.
- Friebe, Fred C., Bay City, Mich. Valve-tool. No. 1,296,279; Mar. 4; v. 260; p. 105.
- Friebel, George M., Lebret, Saskatchewan, Canada. Belt guide and shifter. No. 1,309,474; July 8; v. 264; p. 298.
- Fried, Krupp Aktiengesellschaft. (See Ziegenfuss, Friedrich, assignor.)
- Fried, Krupp Aktiengesellschaft Germaniawerft. (See Regenbogen and Tschel, assignors.)
- Fried, Krupp Aktiengesellschaft Germaniawerft. (See Ritter, Paul A., assignor.)
- Fried, Marcus, assignor to Standard Shoe Machinery Co., Lawrence, Mass. Tipping hand-tool. No. 1,314,641; Sept. 2; v. 266; p. 32.
- Friedberg, Louis, Philadelphia, Pa. Cigarette-maker. No. 1,307,003; June 17; v. 263; p. 395.
- Friedberger-Aaron Manufacturing Company. (See Goldsmith, Edwin M., assignor.)
- Friedland, Joseph, Brooklyn, N. Y. Safety receiving-box. No. 1,307,352; June 24; v. 263; p. 492.
- Friedlander, Samuel, New York, N. Y. Stretching-frame. No. 1,297,556; Mar. 18; v. 260; p. 451.
- Friedman, Charles. (See Rudolph, Raymond H., assignor.)
- Friedman, Jack, New York, N. Y. Protecting fabric. No. 1,309,620; July 15; v. 264; p. 363.
- Friedman, Morris. (See Dowdall, James T., assignor.)
- Friedman, Samuel, New York, N. Y. Snow-melting machine and operating same. (Reissue.) No. 14,754; Nov. 18; v. 268; p. 520.
- Friedman, Samuel W., Tuscaloosa, Ala. Collapsible baggage-carrier for automobiles. No. 1,292,452; Jan. 28; v. 258; p. 661.
- Friedmann, Frank J., and M. J. Lifshitz, Brooklyn, N. Y. Nursing-bottle holder. No. 1,302,354; Apr. 29; v. 261; p. 911.
- Friedrich, Adam, Philadelphia, Pa. Wagon for ice, ice-cream, and the like. No. 1,307,044; June 17; v. 263; p. 403.
- Friedrich, Conrad, Washington, D. C. Luminous hair-line. No. 1,302,353; Apr. 29; v. 261; p. 911.
- Friedrich, Gustav E., Grand Rapids, Mich. Machine for scouring cereals. No. 1,292,297; Jan. 21; v. 258; p. 602.
- Friedrich, Gustav J., assignor of two-thirds to himself and one-third to A. Baker, trustees, New York, N. Y. Loom-shuttle. No. 1,296,645; Mar. 11; v. 260; p. 222.
- Friedrich, William H., assignor, by mesne assignments, to W. H. Friedrich & Co. Composition reinforced ring. No. 1,316,570; Sept. 23; v. 266; p. 458.
- Friedt, Joseph H., Estevan, Saskatchewan, Canada. Pocket-comb. No. 1,323,463; Dec. 2; v. 269; p. 45.
- Friel, Grant, Los Angeles, Cal. Street-center-crossing indicator. No. 1,295,021; Feb. 18; v. 259; p. 542.
- Friel, Hattie D., administratrix. (See Friel, Patrick H.)
- Friel, Patrick H., deceased; H. D. Friel, administratrix, assignor to Simmons Company, Kenosha, Wis. Rubbing mechanism. No. 1,306,533; June 10; v. 263; p. 276.
- Friel, Patrick H., deceased; H. D. Friel, administratrix, assignor to Simmons Company, Kenosha, Wis. Tube-drawing apparatus. No. 1,321,729; Nov. 11; v. 268; p. 323.
- Friend, David H., North Industry, Ohio. Motor-frame. No. 1,318,744; Oct. 14; v. 267; p. 268.
- Friend, Edward H., London, England. Rotary engine. No. 1,307,903; June 24; v. 263; p. 592.
- Friend, Hardy A., Albert Lea, Minn. Stock-tank heater. No. 1,324,245; Dec. 9; v. 269; p. 237.
- Frier, John, St. Louis, Mo. Lacing-tip. No. 1,318,745; Oct. 14; v. 267; p. 268.
- Frier, John D., Warlungstown, Ireland. Machine for tearing cloth or fabric. No. 1,318,859; Oct. 14; v. 267; p. 290.
- Friermood, Charles L. (See Pfeifer, John, assignor.)



## Alphabetical list of patentees—Continued.

- Fries, David L., Cambridge, and H. F. Phillips, Somerville, Mass. Making armor-piercing bullets. No. 1,318,860; Oct. 14; v. 267; p. 290.
- Fries, Edward A., assignor to Randall & Fries, Boston, Mass. Apparatus for forming plastic bars. No. 1,293,398; Feb. 4; v. 259; p. 98.
- Fries, Edward J., and T. F. Dickey, Toledo, Ohio. Fluid-line-pressure-regulating valve. No. 1,298,195; Mar. 25; v. 260; p. 614.
- Fries, Jöns A., State College, Pa. Automatic gas-analysis apparatus. No. 1,309,681; July 15; v. 264; p. 375.
- Fries, Soren P., Seattle, Wash. Bake-oven. No. 1,292,749; Jan. 28; v. 258; p. 732.
- Friesen, John, Lehigh, Kans. Tire-protector. No. 1,324,658; Dec. 9; v. 269; p. 316.
- Friess, Gustav A., Chicago, Ill. Sheet-gripping mechanism for printing-presses. No. 1,293,749; Feb. 11; v. 259; p. 210.
- Friestedt, Arthur A., assignor to Friestedt Manufacturing Company, Chicago, Ill. Humidifying attachment for gas-engines. No. 1,317,362; Sept. 30; v. 266; p. 642.
- Friestedt Manufacturing Company. (See Friestedt, Arthur A., assignor.)
- Frigeri, Pietro. (See Keen and Frigeri.)
- Frimand, Peter A., Wilmette, assignor to The Burton Page Company, Chicago, Ill. Milking-machine. No. 1,311,959; Aug. 5; v. 265; p. 20.
- Frine, Michael A., Los Angeles, Calif. Wind-shield and top support. No. 1,307,627; June 24; v. 263; p. 542.
- Frings, Francis A., London, England. Duplex pen. No. 1,312,440; Aug. 5; v. 265; p. 110.
- Frink, Fred J. (See Frink, Robert L. and F. J.)
- Frink, Herbert J., assignor to Holyoke Machine Company, Holyoke, Mass. Wood-pulp grinder. No. 1,311,117; July 22; v. 264; p. 669.
- Frink, Robert L. and F. J., Lancaster, Ohio; said F. J. Frink assignor to said Robert L. Frink. Drawing-pot for glass. No. 1,302,149; Apr. 29; v. 261; p. 872.
- Frins, Maximilian C., assignor to International Moto. Company, New York, N. Y. Rear-axle drive for motor vehicles. No. 1,326,655; Dec. 30; v. 269; p. 804.
- Frisbie, Henry C. (See Smith, Thomas, assignor.)
- Frisch, August, Zurich, Switzerland. Device for throwing successively a series of projectiles by centrifugal action. No. 1,293,075; Feb. 4; v. 259; p. 24.
- Friss, John M., Racine, Wis. Frame for curtain-lights. No. 1,294,893; Feb. 18; v. 259; p. 514.
- Frist, Robert P., Sr., Long Beach, Calif. Collar. No. 1,320,612; Nov. 4; v. 268; p. 48.
- Frisz, George E., and J. D. Wiltshire, Indianapolis, Ind. Stop-arm for steering mechanism. No. 1,304,300; May 20; v. 262; p. 405.
- Fritsch, Hermann, North Bergen, N. J. Bowling apparatus. No. 1,322,892; Nov. 25; v. 268; p. 643.
- Fritsche, Albert E., Hobart, Okla. Bale-tie buckle. No. 1,292,298; Jan. 21; v. 258; p. 603.
- Fritsche, Antonio. (See Fritzsche, Rudolf, assignor.)
- Fritsche, Joseph, Puente, Calif. Bean-vine cutter. No. 1,309,885; July 15; v. 264; p. 412.
- Fritsche, Rudolf, Hoboken, N. J., assignor to A. Fritsche, New York, N. Y. Making ornaments. No. 1,294,253; Feb. 11; v. 259; p. 329.
- Fritz, Eduard, Poughkeepsie, N. Y. Toy. No. 1,303,787; May 13; v. 262; p. 272.
- Fritz, Gustav E. (See Ramsey and Fritz.)
- Fritz, Julius L., Fairview, Pa., assignor to E. H. Fairbanks, Merchantville, N. J. Air-valve for carbureters. No. 1,305,272; June 3; v. 263; p. 8.
- Fritz, Martin J., Mitchell, Nebr. Grain-drill hopper. No. 1,305,273; June 3; v. 263; p. 9.
- Fritz, Medor A., Oakland, Cal. Stamp and advertising book. No. 1,292,750; Jan. 28; v. 258; p. 732.
- Fritzche, Alfred, et al. (See Ahlm, Charles E. F., assignor.)
- Fritzche, Hermann, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azodyestuffs dyeing mordanted goods. No. 1,325,841; Dec. 23; v. 269; p. 615.
- Fritz, Ewald A. (See Montague, Harold E., assignor.)
- Fritzche, Hermann. (See Anderwert, Fritzsche, and Schobel.)
- Fritzsche, Hermann, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs dyeing mordanted goods. No. 1,316,781; Sept. 23; v. 266; p. 498.
- Fritzsche, George H., assignor to Taplex Corporation, Brooklyn, N. Y. Intake-manifold heater for internal-combustion engines. No. 1,326,492; Dec. 30; v. 269; p. 773.
- Fritzsche, George H., Brooklyn, assignor to Taplex Corporation, New York, N. Y. Pocket-stove. No. 1,294,647; Feb. 18; v. 259; p. 457.
- Fritzinger, John H., Perth Amboy, N. J., assignor to National Fireproofing Company, New York, N. Y. Producing building-blocks. No. 1,293,076; Feb. 4; v. 259; p. 24.
- Frix, Don D., Chicago, Ill. Lock. No. 1,321,298; Nov. 11; v. 268; p. 241.
- Froberg, Olof, Benton Harbor, Mich. Collar and cuff starching machine. No. 1,324,589; Dec. 9; v. 269; p. 304.
- Frodehl, Axel, Brooklyn, N. Y. Valve-spring lifter. No. 1,325,985; Dec. 23; v. 269; p. 642.
- Frodsham, John, Frodsham, Cal. Rotary pump. No. 1,296,500; Mar. 4; v. 260; p. 152.
- Froehlich, Hugo. (See Frank and Froehlich.)
- Froelich, Adolph C., et al. (See Dickerson, Herbert M., assignor.)
- Froelich, John, St. Paul, Minn. Internal-combustion engine. No. 1,322,422; Nov. 18; v. 268; p. 504.
- Froelich, Joseph, Sayner, Wis. Swivel-jaws for muskrat-traps. No. 1,316,024; Sept. 16; v. 266; p. 307.
- Froess, Jacob J., Erie, Pa. Music-desk for pianos. No. 1,310,472; July 22; v. 264; p. 550.
- Froger, Louis V. W., Lorient, France. Sheet-anchor. No. 1,305,507; June 3; v. 263; p. 52.
- Frohn, Leonard J., New York, N. Y. Backing-machine for books, tablets, and the like. No. 1,304,760; May 27; v. 262; p. 532.
- Frohn, Leonard J., New York, N. Y. Cut-off mechanism for taping-machines and the like. No. 1,318,320; Oct. 7; v. 267; p. 127.
- Frolek, John, Trapp Lake, British Columbia, Canada. Observation-camera mount. No. 1,300,716; Apr. 15; v. 261; p. 521.
- Fromager, Albert I., and J. F. Six, Montreal, Quebec, Canada. Electric-switch device. No. 1,305,998; June 10; v. 263; p. 175.
- Fromberg, Henry E., Crandall, S. D. Music-leaf turner. No. 1,302,355; Apr. 29; v. 261; p. 911.
- Fromhagen, Frederick, Brooklyn, N. Y. Attachable spout for vessels. No. 1,298,031; Mar. 25; v. 260; p. 579.
- Fromm, Nathan, New York, and A. J. Thwaites, Huntington, N. Y. Attachment for hat-stamping machines. No. 1,311,062; July 22; v. 264; p. 659.
- Frommann, Franklin A., Chicago, Ill. Vehicle-wheel. No. 1,292,299; Jan. 21; v. 258; p. 603.
- Frommann, Franklin A., Chicago, Ill. Wheel-rim. No. 1,292,300; Jan. 21; v. 258; p. 603.
- Frommann, Franklin A., Chicago, Ill. Vehicle-wheel. No. 1,314,739; Sept. 2; v. 266; p. 50.
- Fronsfeld, Joseph M. (See Porter, Milton J., assignor.)
- Froney, Maynard A., Racine, Wis. Cuff-holder. No. 1,302,356; Apr. 29; v. 261; p. 912.
- Frood, Herbert, Chapel-en-le-Frith, England. Friction-surface. No. 1,307,857; June 24; v. 263; p. 584.
- Froom, Harry A., Worcester, Mass. Rectifying-commutator. No. 1,294,894; Feb. 18; v. 259; p. 514.
- Frossard, John A., East Pepperell, Mass. Scraper for paper-calendering rolls or the like. No. 1,299,930; Apr. 8; v. 261; p. 326.
- Frost, George A., Newton, Mass. Garter-package. No. 1,301,418; Apr. 22; v. 261; p. 703.
- Frost, George A., Sound Beach, Conn. Tone-regulator. No. 1,307,664; June 24; v. 263; p. 548.
- Frost, Nathaniel, Bloomington, Ill. Ventilating urinal-closet combination-range. No. 1,303,648; May 13; v. 262; p. 246.
- Frost, Robert T., assignor of one-half to O. M. Pierce, Minot, N. D. Rebate-card. No. 1,302,150; Apr. 29; v. 261; p. 873.
- Frothingham, Daniel D., Salem, and R. U. Sawyer, Winchester, assignors to Sawyer Products Company, Watertown, Mass. Coating fabrics. No. 1,316,782; Sept. 23; v. 266; p. 498.
- Frothingham, Daniel D., Salem, and R. U. Sawyer, Winchester, assignors to Sawyer Products Company, Watertown, Mass. Coated fabric. No. 1,316,783; Sept. 23; v. 266; p. 498.
- Frothingham, Daniel D., Salem, and R. U. Sawyer, Winchester, assignors to Sawyer Products Company, Watertown, Mass. Machine for coating fabrics. No. 1,316,784; Sept. 23; v. 266; p. 498.
- Frühing, Georg. (See Grabe, See, Lubberger, Frühing, and Rütter.)
- Frueh, Alfred J., New York, N. Y. Sheet-material sculpture. No. 1,317,016; Sept. 23; v. 266; p. 541.
- Fruehauf Trailer Company. (See Hartwick, Ernest F., assignor.)
- Fry, Ernest T., et al. (See Fry, John E., assignor.)
- Fry, John E., Mount Jackson, Va., assignor of one-third to E. T. Fry and one-third to J. M. Moses, Baltimore, Md. Reverse-gear for steam-engines. No. 1,325,242; Dec. 16; v. 269; p. 487.
- Fry, Laura A., La Fayette, Ind. Hosiery. No. 1,293,399; Feb. 4; v. 259; p. 98.
- Fry, Phares W., Lancaster, Pa. Adjustable frame for window-screens and the like. No. 1,295,476; Feb. 25; v. 259; p. 670.
- Fry, Reuben M., et al. (See Warman, Samuel W., assignor.)
- Fry, Roy A., Omaha, Nebr. Railway-signal. No. 1,323,974; Dec. 2; v. 269; p. 141.
- Fry, Walter L., Detroit, Mich., assignor, by mesne assignments, to Finance & Trading Corporation of New York. Automobile-body. No. 1,297,674; Mar. 18; v. 260; p. 476.
- Fry, William E. (See Hobson, Ota O., assignor.)
- Fry, William T., San Francisco, Cal. Brush-holder. No. 1,292,980; Jan. 28; v. 258; p. 787.
- Fryant, Harris T., Memphis, Tenn., and W. R. Crout, Hazlehurst, Miss. Cooker for seed-meats. No. 1,309,595; July 8; v. 264; p. 320.



- Fryckberg, Samuel. (See Zesbaugh, Larson, Thomas, and Fryckberg.)
- Frydensberg, Viggo A., Tisvildeleje, Denmark. Treating sea-tang. No. 1,322,237; Nov. 18; v. 268; p. 468.
- Frye, Arthur G. (See Arnold and Frye.)
- Frye, James, Indian Head, Md. Belt-guide and suspender-support. No. 1,317,570; Sept. 30; v. 266; p. 683.
- Fryer, Alva A., Kansas City, Mo. Sanding device. No. 1,305,086; May 27; v. 262; p. 592.
- Fuchs, Adolph, Detroit, Mich. Automobile-signal. No. 1,325,193; Dec. 16; v. 269; p. 478.
- Fuchs, Ernest, assignor to L. Renault, Billancourt, France. Apparatus for charging ingots in ovens. No. 1,290,163; Jan. 7; v. 258; p. 36.
- Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, France. Vehicle of the self-laying-track type. No. 1,307,092; June 17; v. 263; p. 412.
- Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, France. Endless-track vehicle. No. 1,315,297; Sept. 9; v. 266; p. 161.
- Fuchs, Herman, St. Louis, Mo. Valve-cap. No. 1,297,824; Mar. 18; v. 260; p. 509.
- Fuchs, John C., Pittsburgh, and O. W. Cook, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Sheet-handling implement. No. 1,302,028; Apr. 29; v. 261; p. 850.
- Fuchs, John E., Stamford, Conn. Fuel-shut-off mechanism for automobiles. No. 1,303,878; May 20; v. 262; p. 327.
- Fuchs, Julius U., Seattle, Wash. Blade-sharpening attachment for phonographs. No. 1,316,948; Sept. 23; v. 266; p. 528.
- Fuchs, Maximilian J., Stamford, Conn. Machine for making bronze-powder. No. 1,310,526; July 22; v. 264; p. 560.
- Fuchs, Philip A., Milwaukee, Wis. Pulley-supporting brace. No. 1,301,830; Apr. 29; v. 261; p. 812.
- Fuchs, Philip A., Milwaukee, Wis. Brace for steps of motor-driven vehicles. No. 1,322,006; Nov. 18; v. 268; p. 425.
- Fudczko, Hilary, Philadelphia, Pa. Traction-tread. No. 1,298,924; Apr. 1; v. 261; p. 70.
- Fudczko, Hilary, Philadelphia, Pa. Metallic tie and rail fastener. No. 1,314,956; Sept. 2; v. 266; p. 88.
- Fudge, Henry E., Port Lavaca, Tex. Plow. No. 1,315,923; Sept. 9; v. 266; p. 275.
- Fuegel, Gottlob. (See Schmid and Fuegel.)
- Fuel Saving Company. (See Wood, Walter D., assignor.)
- Fuerth, William G., assignor to Equilibrator Company, Newark, N. J. Type-writer stencil. No. 1,293,077; Feb. 4; v. 259; p. 25.
- Fugiel, Frank, Hamtramck, Mich. Safety device for filing-machines. No. 1,301,247; Apr. 22; v. 261; p. 669.
- Fugina, Arthur R. (See Clough, Stilwell, and Fugina.)
- Fuhr, Albert B., Macomb, Ill. Window-ventilator. No. 1,309,886; July 15; v. 264; p. 412.
- Fuhrmann, Warren. (See Soderstrom, Oscar W., assignor.)
- Fuhrmann, Warren, Westfield, N. J., assignor, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y. Signal printing means for calculators. No. 1,313,177; Aug. 12; v. 265; p. 284.
- Fuhrmann, Warren, Westfield, N. J., and E. M. Squarey, Tuckahoe, assignors, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y. Lock for calculator type-carriers. No. 1,292,301; Jan. 21; v. 258; p. 603.
- Fuhrmann, Warren, Westfield, N. J., and E. M. Squarey, Tuckahoe, assignors, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y. Cross-lock for calculator special keys. No. 1,293,750; Feb. 11; v. 259; p. 211.
- Fuhrmann, Warren, Westfield, N. J., and E. M. Squarey, Tuckahoe, assignors, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y. Keyboard-locking means for calculators. No. 1,296,379; Mar. 4; v. 260; p. 127.
- Fuhrmann, Warren, Westfield, N. J., and E. M. Squarey, Tuckahoe, assignors, by mesne assignments, to Wilkinson Brothers and Company, Incorporated, New York, N. Y. Key-actuated keyboard releaser and lock. No. 1,296,380; Mar. 4; v. 260; p. 127.
- Fukao, Junji, Kobe, Japan. Stern-tube and its stuffing-box. No. 1,307,815; June 24; v. 263; p. 576.
- Fukuda, Kinsuke, Tokyo, Japan. Non-pneumatic rubber ball and manufacturing the same. No. 1,320,221; Oct. 28; v. 267; p. 595.
- Fulcher Pulp Bottle Company. (See Fulcher, William H., assignor.)
- Fulcher, William H., assignor to Fulcher Pulp Bottle Company, Oakland, Calif. Apparatus for making paper hollow ware. No. 1,303,191; May 6; v. 262; p. 135.
- Fulgora, Fred, assignor of one-half to J. J. Clair, Pittsburgh, Pa. Retainer. No. 1,315,768; Sept. 9; v. 266; p. 244.
- Fulkerson, George W., Hagerstown, Ind. Shock-absorber. No. 1,299,165; Apr. 1; v. 261; p. 125.
- Fulkerson, Walter P. (See McCargar, Lorren B., assignor.)
- Fullard, William, Beverly, N. J. Roaster for coffee and other materials. No. 1,319,764; Oct. 28; v. 267; p. 511.
- Fullenwider, George R., Fairfield, Mont. Angular-socket wrench. No. 1,310,473; July 22; v. 264; p. 550.
- Fuller, Alfred C., Hartford, Conn. Tooth-brush. No. 1,296,067; Mar. 4; v. 260; p. 57.
- Fuller, Algernon C., Woburn, England. Telegraphy and apparatus therefor. No. 1,316,540; Sept. 16; v. 266; p. 405.
- Fuller, Archibald S. (See Higginson, James, assignor.)
- Fuller, Ben A., Lampasas, Tex. Combined railway level and gage. No. 1,296,381; Mar. 4; v. 260; p. 128.
- Fuller Brush Company, The. (See Hines, William J., assignor.)
- Fuller, Carl T., Nutley, N. J., assignor to General Electric Company. Metal-drawing die. No. 1,297,825; Mar. 18; v. 260; p. 509.
- Fuller, Charles E., et al. (See Pearson, James H., assignor.)
- Fuller, Charles E., assignor of one-half to G. J. Hatz, Omaha, Nebr. Locomotive-saddle. No. 1,297,826; Mar. 18; v. 260; p. 509.
- Fuller, Chas. L., et al. (See Cole, Melville R., assignor.)
- Fuller, Elmer L., Arlington, and P. E. de Rochemont, Medford, Mass. Shock-absorber. No. 1,297,827; Mar. 18; v. 260; p. 509.
- Fuller, Ernest L., Malden, Mass., assignor to Technical Supply Company, Scranton, Pa. Drifting apparatus. No. 1,314,323; Aug. 26; v. 265; p. 552.
- Fuller, Eugene, Providence, assignor to B. F. Tefft, Jr., Arctic, K. I. Shock-absorber. No. 1,303,816; May 13; v. 262; p. 278.
- Fuller, Franz A., Newark, N. J., assignor to American Safety Razor Company, Brooklyn, N. Y. Razor-stropping device. No. 1,304,675; May 27; v. 262; p. 516.
- Fuller, Franz A., Newark, N. J. Safety-razor. No. 1,290,963; Jan. 14; v. 258; p. 254.
- Fuller, Franz A., assignor to J. E. Mergott Company, Newark, N. J. Lip-stick holder. No. 1,290,164; Jan. 7; v. 258; p. 36.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Desk-tray. No. 1,293,400; Feb. 4; v. 259; p. 99.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Cigar-holder and ash-receptacle. No. 1,312,530; Aug. 12; v. 265; p. 157.
- Fuller, Fred H., Watertown, N. Y. Production of heavy paper, &c. No. 1,315,924; Sept. 9; v. 266; p. 275.
- Fuller, Fred R., Bay Village, Ohio. Combination check-register and expense-control book. No. 1,325,243; Dec. 16; v. 269; p. 487.
- Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,301,678; Apr. 22; v. 261; p. 752.
- Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Registering and recording mechanism. No. 1,311,884; Aug. 5; v. 265; p. 6.
- Fuller, George T., assignor to Dubois Watch Case Company, Brooklyn, N. Y. Securing device for looped straps. No. 1,323,359; Dec. 2; v. 269; p. 26.
- Fuller, Harry. (See Abernathy, Harry M. and H. D., assignors.)
- Fuller, Harry H., River Falls, Wis. Litter-carrier-cable support. No. 1,290,964; Jan. 14; v. 258; p. 254.
- Fuller & Johnson Mfg Co. (See Gore, Warren W., assignor.)
- Fuller, Joseph C., Seward, N. J. Fastening means for demountable rims. No. 1,315,184; Sept. 2; v. 266; p. 130.
- Fuller, Judson M., Chicago, Ill. Floor post and socket. No. 1,291,823; Jan. 21; v. 258; p. 485.
- Fuller, Karl E., Detroit, Mich. Chiropodist's cabinet and screen. No. 1,301,248; Apr. 22; v. 261; p. 669.
- Fuller, Kenneth D., Whittier, Calif. Rod-hanger. No. 1,313,808; Aug. 19; v. 265; p. 419.
- Fuller, Leonard F. (See Marx and Fuller.)
- Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Electrical-oscillation generator. No. 1,298,490; Mar. 25; v. 260; p. 677.
- Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,300,156; Apr. 8; v. 261; p. 376.
- Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,300,157; Apr. 8; v. 261; p. 376.
- Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,306,223; June 10; v. 263; p. 218.
- Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,309,283; July 8; v. 264; p. 263.
- Fuller, Leonard F., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Wireless telegraphy. (Reissue.) No. 14,760; Nov. 25; v. 268; p. 709.
- Fuller, Nelson T., New Bedford, Mass. Brick-cleaning machine. No. 1,309,405; July 8; v. 264; p. 286.
- Fuller, Perley H., Auburn, Me. Oil-burner. No. 1,297,137; Mar. 11; v. 260; p. 334.
- Fuller-Warren Co., The. (See Coke, George M., assignor.)



## Alphabetical list of patentees—Continued.

- Fuller, William W., Charleston, S. C. Car-wheel. No. 1,319,275; Oct. 21; v. 267; p. 395.
- Fullinwider, Simon P., Washington, D. C., and C. T. Minkler, Newport, R. I., assignors to Government of the United States. Horn-mine. No. 1,321,428; Nov. 11; v. 268; p. 266.
- Fulton Company, The. (See Fulton, Giesler, and Patton, assignors.)
- Fulton Company, The. (See Fulton, Weston M., assignor.)
- Fulton Company, The. (See Giesler, Jean V., assignor.)
- Fulton, Edwin W., assignor to Velox Vise Co., Inc., Louisville, N. Y. Vise. No. 1,299,828; Apr. 8; v. 261; p. 305.
- Fulton, Harmon H. (See Hodgkins and Clifton, assignors.)
- Fulton Iron Works Company. (See Hurter, Henry, assignor.)
- Fulton Iron Works Company. (See O'Neil, John F., assignor.)
- Fulton, John S. S., Chicago, Ill., assignor to T. Bates, Toronto, Ontario, Canada. Air-feeding device for furnaces. No. 1,305,999; June 10; v. 263; p. 175.
- Fulton, Le Roy M., Des Plaines, Ill. Electric-wiring terminal. No. 1,309,887; July 15; v. 264; p. 413.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Tempering corrugated walls. No. 1,293,078; Feb. 4; v. 259; p. 25.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Tank-regulator. No. 1,300,717; Apr. 15; v. 261; p. 521.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Radiator-casing. No. 1,301,419; Apr. 22; v. 261; p. 703.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Humidifying device in combination with radiator-casings. No. 1,305,532; June 3; v. 263; p. 67.
- Fulton, Weston M., J. V. Giesler, and H. T. Patton, assignors to The Fulton Company, Knoxville, Tenn. Cooling system for internal-combustion engines. No. 1,306,000; June 10; v. 263; p. 175.
- Fulweiler, Walter H., Wallingford, Pa., assignor to United Gas Improvement Company, Philadelphia, Pa. Recovering by-products of illuminating-gas. No. 1,310,748; July 22; v. 264; p. 601.
- Funk, Jacob F., Rochester, N. Y. Leather-splitting machine. No. 1,302,651; May 6; v. 262; p. 32.
- Funda, John T. (See Goldsmith and Funda.)
- Fundamental Corporation, The. (See Warman, Percy S., assignor.)
- Funk, Arthur S., La Crosse, Wis. Cementing. No. 1,316,295; Sept. 16; v. 266; p. 357.
- Funk, Charles J. (See Amet, Edward H., assignor.)
- Funk, Frank M., Detroit, Mich. Hose-clamp. No. 1,291,471; Jan. 14; v. 258; p. 372.
- Funk, Frank M., Detroit, Mich. Stud-driver. No. 1,298,324; Mar. 25; v. 260; p. 641.
- Funk, Frank M., Detroit, Mich. Stud-driver. No. 1,308,490; July 1; v. 264; p. 88.
- Funk, Oscar F., assignor of one-fourth to F. J. Boehm, one-fourth to W. R. Schneider, and one-fourth to H. K. Wagner, St. Louis, Mo. Composition for smoothing the abrasive surfaces of fabrics or similar articles. No. 1,321,518; Nov. 11; v. 268; p. 282.
- Funk, Paul Z., Jeromville, Ohio. Mold. No. 1,294,254; Feb. 11; v. 259; p. 330.
- Funk, Richard W., Weehawken, N. J., assignor, by mesne assignments, to Universal Rim Company, Chicago, Ill. Tool for operating vehicle-wheel rims. No. 1,319,860; Oct. 28; v. 267; p. 529.
- Funk, Truman B., assignor to Moline Plow Company, Moline, Ill. Air-cleaning mechanism. No. 1,319,059; Oct. 21; v. 267; p. 353.
- Funk, Truman B., assignor to Moline Plow Company, Moline, Ill. Transmission mechanism for tractors. No. 1,320,541; Nov. 4; v. 268; p. 35.
- Funkley, Charles H., Ramsay, Mich. Excavating-machine for mining. No. 1,319,578; Oct. 21; v. 267; p. 453.
- Funsten, James J., San Francisco, Calif. Hollow inter-bonding brick and construction. No. 1,318,140; Oct. 7; v. 267; p. 91.
- Furber, Frederick M., Revere, Mass. Tube-flanging implement. No. 1,297,457; Mar. 18; v. 260; p. 431.
- Furber, Frederick M., Revere, Mass. Spark-plug. No. 1,323,300; Dec. 2; v. 269; p. 26.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Blacking-machine. No. 1,290,165; Jan. 7; v. 258; p. 86.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Softener for shoes. No. 1,292,412; Jan. 21; v. 258; p. 629.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Seam-pressing machine. No. 1,295,152; Feb. 25; v. 259; p. 595.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pressing member. No. 1,300,598; Apr. 15; v. 261; p. 496.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Blacking-machine. No. 1,311,161; July 29; v. 264; p. 711.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and apparatus for working on shoe-stock. No. 1,318,658; Oct. 14; v. 267; p. 252.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Edge-trimming machine and the like. No. 1,319,765; Oct. 28; v. 267; p. 511.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Liquid-dispenser. No. 1,322,558; Nov. 25; v. 268; p. 581.
- Furber, James B. (See Lawson, William E., assignor.)
- Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Electrically-controlled elevator. No. 1,298,032; Mar. 25; v. 260; p. 579.
- Furlow, Floyd C., Montclair, N. J., assignor to Otis Elevator Company, Jersey City, N. J. Variable-landing device. No. 1,305,594; June 3; v. 263; p. 70.
- Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Leveling device. No. 1,315,600; Sept. 9; v. 266; p. 215.
- Furman, Samuel, Brooklyn, N. Y., assignor to United States Envelope Company, Springfield, Mass. Patch-applying mechanism in machines for making window-envelope blanks. No. 1,318,065; Oct. 7; v. 267; p. 77.
- Furman, William B., Chester, Pa. Scaffold construction. No. 1,324,246; Dec. 9; v. 269; p. 237.
- Furness, Theodore F., Cynwyd, Pa., assignor, by mesne assignments, to Acushnet Process Company, Inc. Recovering plastic rubber from fabrics. No. 1,321,200; Nov. 11; v. 268; p. 222.
- Furr, Oscar M., Houston, Tex. Acetylene-gas generator. No. 1,292,302; Jan. 21; v. 258; p. 604.
- Furrell, Edward W., St. Louis, Mo. Game apparatus. No. 1,324,041; Dec. 9; v. 269; p. 198.
- Furry, Samuel H., Lancaster, Ohio. Bridge-approach. No. 1,300,949; Apr. 15; v. 261; p. 570.
- Furste, Henry, assignor to The United States Printing and Lithograph Company, Cincinnati, Ohio. Carton. No. 1,305,707; June 3; v. 263; p. 90.
- Furuholmen, George, Minneapolis, Minn. Stove and other heater. No. 1,322,423; Nov. 18; v. 268; p. 504.
- Fusner, Jesse L., Wellsburg, W. Va., assignor to Johnson Manufacturing Company, Urbana, Ohio. Oiler. No. 1,304,301; May 20; v. 262; p. 405.
- Fuss, Albert W. (See Ingram, Walter M., assignor.)
- Fussell, George, Lockport, N. Y. Means for nitrating gun-cotton. No. 1,296,280; Mar. 4; v. 260; p. 106.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Polyphase motor. No. 1,304,957; May 27; v. 262; p. 568.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Dynamo-electric machine. No. 1,304,958; May 27; v. 262; p. 568.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Power transmission and control. No. 1,321,616; Nov. 11; v. 268; p. 301.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Power-transmitting apparatus. No. 1,321,617; Nov. 11; v. 268; p. 301.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Safety device for automobiles. No. 1,321,618; Nov. 11; v. 268; p. 301.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Ignition system. No. 1,321,619; Nov. 11; v. 268; p. 302.
- G. Beaton & Son. (See Stewart, James N., assignor.)
- G. Reis & Bro. Inc. (See St. Clair, David A., assignor.)
- G. A. Buhl Company, The. (See Buhl, George A., assignor.)
- G. A. Buhl Company, The. (See Stutzke, Richard W. G., assignor.)
- G. C. A. Manufacturing Company, The. (See Crinnell, Harold D., assignor.)
- G. & J. Weir. (See Lang, Charles R., assignor.)
- G. & J. Weir. (See Weir, William, assignor.)
- G. H. Leather Limited. (See Longthorne, Fred, assignor.)
- G. H. Masten Co., The. (See Bailey, Anna D., assignor.)
- G. L. Time Switch Company. (See Greenstreet and Lumm, assignors.)
- G. W. Bent Co. (See Bent, Arthur F., assignor.)
- G. W. Bent Co. (See Rimmer, Joseph, assignor.)
- G. W. J. Murphy Co. (See Bourque, David, assignor.)
- G & W Package Company, The. (See Greenlee and Wegwart, assignors.)
- Gaba, Melvin H., Philadelphia, Pa. Phonograph-illuminating appliance. No. 1,316,025; Sept. 16; v. 266; p. 307.
- Gabb, George H. (See Dyer, Richard F., assignor.)
- Gabel, Albert, Muscatine, Iowa. Lightning-arrester. No. 1,311,063; July 22; v. 264; p. 659.
- Gabriel, Arthur R., assignor to Samuel Gabriel Sons and Company, New York, N. Y. Toy doll. No. 1,319,384; Oct. 21; v. 267; p. 415.
- Gabriel, Charles, assignor to A. M. Castle & Co., Chicago, Ill. Structural-shape shear. No. 1,309,848; July 15; v. 264; p. 405.



- Gabriel, George A. (See Skillins and Gabriel.)
- Gabriel, Philip E., Detroit, Mich. Die-casting machine. No. 1,301,788; Apr. 22; v. 261; p. 775.
- Gabriella, Joseph, Gorham, Colo. Flag-wheel for radiator-caps. No. 1,291,472; Jan. 14; v. 258; p. 372.
- Gabrielson, Carl, assignor to L. C. Smith & Bros. Type-writer Company, Syracuse, N. Y. Card-holder for type-writing machines. No. 1,308,879; May 20; v. 262; p. 327.
- Gabus, Adrian, Springfield, Ill. Jewel-blank-shaping machine. No. 1,302,907; May 6; v. 262; p. 82.
- Gabus, Adrian, Springfield, Ill. Jewel-making machine. No. 1,302,908; May 6; v. 262; p. 82.
- Gadd, Anna E., executrix. (See Gadd, Charles J.)
- Gadd, Charles J., deceased, Lebanon, Pa.; A. E. Gadd, executrix, Atlantic City, N. J. Anticreeper for rails. No. 1,300,599; Apr. 15; v. 261; p. 496.
- Gadd, Charles J., deceased, Lebanon, Pa.; A. E. Gadd, executrix. Telltale and means for controlling the feed of material to hoppers or bins. No. 1,304,553; May 27; v. 262; p. 493.
- Gadd, Charles J., deceased, Lebanon, Pa.; A. E. Gadd, executrix. Clip. No. 1,304,554; May 27; v. 262; p. 493.
- Gadd, Charles J., deceased, Lebanon, Pa.; A. E. Gadd executrix. Apparatus for burning pulverized fuel. No. 1,314,740; Sept. 2; v. 266; p. 50.
- Gaddess, Harry W., Baltimore, Md., assignor of one-third to V. Kelly. Attachment for knitting-needles. No. 1,298,033; Mar. 25; v. 260; p. 579.
- Gaddis, Benjamin W., Parsons, Kans. Voting-machine. No. 1,304,555; May 27; v. 262; p. 494.
- Gadecki, Frank, Mystic, Iowa. Carousel. No. 1,318,986; Oct. 14; v. 267; p. 314.
- Gadow, Richard M., Billings, Mont. Railway-crossing eveners. No. 1,323,975; Dec. 2; v. 269; p. 142.
- Gaffney, Frank J., Worcester, Mass. Automatic adjustable paper-separator and guide-post. No. 1,326,334; Dec. 30; v. 269; p. 743.
- Gaffney, Joseph B., Allentown, Pa., assignor to Potash-Extraction Corporation, New York, N. Y. Rotary furnace. No. 1,318,141; Oct. 7; v. 267; p. 91.
- Gaffney, Thomas J., Albany, N. Y. Automobile-signal. No. 1,299,166; Apr. 1; v. 261; p. 125.
- Gage, Henry P., Corning, N. Y., assignor to Corning Glass Works, Glass. No. 1,295,298; Feb. 25; v. 259; p. 629.
- Gage, Henry P., Corning, N. Y., assignor to Corning Glass Works, Glass. No. 1,295,299; Feb. 25; v. 259; p. 629.
- Gage, Henry P., and W. C. Taylor, assignors to Corning Glass Works, Corning, N. Y. Glass. No. 1,305,793; June 3; v. 263; p. 106.
- Gage, Henry P., and W. C. Taylor, assignors to Corning Glass Works, Corning, N. Y. Glass. No. 1,305,794; June 3; v. 263; p. 106.
- Gage, Lorenzo R., Sr., Hogueham, Wash. Fishing device. No. 1,304,302; May 20; v. 262; p. 405.
- Gage, Robert B., Trenton, N. J., assignor to Blaw Steel Construction Company, Hoboken, Pa. Apparatus for making roads. No. 1,320,222; Oct. 28; v. 267; p. 596.
- Gagne, Jean B., Donacana, Quebec, Canada. Automatic hose-coupling. No. 1,316,153; Sept. 16; v. 266; p. 331.
- Gagnier, Joseph H., Fall River, Mass. Step-ladder. No. 1,312,725; Aug. 12; v. 265; p. 195.
- Gagnon, Eli J., Exeter, N. H. Multiple-spindle machine. No. 1,304,173; May 20; v. 262; p. 380.
- Gagnon, Joseph A., Upton, Quebec, Canada. Composite tool. No. 1,302,357; Apr. 29; v. 261; p. 912.
- Gagnon, Peter J., Jr., South Lowell, assignor of one-half to R. A. Wilson, Lowell, Mass. Bag-turning machine. No. 1,308,944; July 8; v. 264; p. 200.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Chain. No. 1,303,649; May 13; v. 262; p. 246.
- Gahl, Rudolf, Miami, Ariz. Recovering metals from ores. No. 1,291,824; Jan. 21; v. 258; p. 486.
- Gahl, Rudolf, Miami, Ariz., assignor to The Utah Copper Company. Flotation process. No. 1,290,166; Jan. 7; v. 258; p. 37.
- Gahring, Frederick A., Minneapolis, assignor to Peerless Chain Company, Winona, Minn. Tire-chain. No. 1,296,069; Mar. 4; v. 260; p. 58.
- Gail, John F., assignor, by mesne assignments, to Simmons Company, Kenosha, Wis. Edge-band machine. No. 1,297,340; Mar. 18; v. 260; p. 406.
- Gail, John F., assignor to Simmons Company, Kenosha, Wis. Rolling and punching mechanism. No. 1,297,341; Mar. 18; v. 260; p. 407.
- Gail, John F., assignor to Simmons Company, Kenosha, Wis. Tube-squaring apparatus. No. 1,308,945; July 8; v. 264; p. 200.
- Gailor, Chester F. (See Clark, Jansen, and Gallor.)
- Gain, Harry W., assignor to Freyseng Cork Company, Limited, Toronto, Ontario, Canada. Life-preserver. No. 1,301,831; Apr. 29; v. 261; p. 812.
- Gainer, Simon, Chicago, Ill. Box-spring. No. 1,296,068; Mar. 4; v. 260; p. 58.
- Gaines, Arthur E., and A. A. Erb, Denver, Colo. Artificial leg. No. 1,314,136; Aug. 26; v. 265; p. 515.
- Gaines, Vincent S., Webster Groves, Mo. Mechanical toy. No. 1,301,552; Apr. 22; v. 261; p. 727.
- Gaines, Vincent S., Webster Groves, Mo. Mechanical toy. No. 1,315,108; Sept. 2; v. 266; p. 116.
- Gairing, Emil, assignor to The Gairing-Needham Tool Co., Inc., Detroit, Mich. Boring-tool. No. 1,298,196; Mar. 25; v. 260; p. 614.
- Gairing, Emil, Detroit, Mich., assignor to The Gairing-Needham Tool Co., Inc. Plug-gage. No. 1,298,197; Mar. 25; v. 260; p. 614.
- Gairing, Emil, assignor to The Gairing-Needham Tool Co., Inc., Detroit, Mich. Floating-tool holder. No. 1,311,960; Aug. 5; v. 265; p. 20.
- Gairing, Emil, assignor to The Gairing-Needham Tool Co., Inc., Detroit, Mich. Gage for floating-tool holders. No. 1,311,961; Aug. 5; v. 265; p. 20.
- Gairing-Needham Tool Company, The. (See Gairing, Emil, assignor.)
- Gaiser, Charles F., Chicago, Ill. Oil-treating apparatus. No. 1,311,268; July 29; v. 264; p. 730.
- Gaisler, Fred, assignor of one-half to F. Graf, Jr., St. Louis, Mo. Core-forming appliance for patterns. No. 1,296,945; Mar. 11; v. 260; p. 291.
- Gaisser, John, Glendale, N. Y. Material suitable for wall-coverings and other purposes. No. 1,322,893; Nov. 25; v. 268; p. 643.
- Gajan, Joseph, New York, N. Y. Non-skid attachment for wheels. No. 1,308,705; July 1; v. 264; p. 128.
- Gal, Peter, New York, N. Y. Coloring natural stony substances. No. 1,316,227; Sept. 16; v. 266; p. 345.
- Galan, John, Elmhurst, N. Y. Molding apparatus for buildings. No. 1,313,630; Aug. 19; v. 265; p. 386.
- Galantin, Ignatius P., Chicago, Ill., assignor to Splittorf Electrical Company, Newark, N. J. Ignition-generator. No. 1,303,469; May 13; v. 262; p. 214.
- Galardi, Leopoldo, and L. Patuzzo, Milan, Italy. Plowing-machine. No. 1,325,244; Dec. 16; v. 269; p. 487.
- Galbraith, F. W. (See Hauss, David J., assignor.)
- Galbraith, Orville R., Asquith, Saskatchewan, Canada. Internal-combustion engine. No. 1,301,420; Apr. 22; v. 261; p. 703.
- Galbreath, Edwin B., Indianapolis, Ind. Internal-combustion engine. No. 1,307,045; June 17; v. 263; p. 403.
- Gale, Ernest L., Jr., Yonkers, N. Y. Electromechanical brake apparatus. No. 1,304,870; May 27; v. 262; p. 552.
- Gale, Francis G., Waterville, Quebec, Canada. Incandescent welding with electricity. No. 1,323,178; Nov. 25; v. 268; p. 697.
- Gale, Fred E., Minneapolis, Minn. Antislipping attachment for automobile-wheels. No. 1,303,651; May 13; v. 262; p. 247.
- Gale, John M., Eaton, Ohio. Safety cash-cabinet. No. 1,307,581; June 24; v. 263; p. 534.
- Galentine, Lee A., and H. N. Gillette, Nunda, N. Y. Valve-remover. No. 1,306,887; June 17; v. 263; p. 374.
- Gales, Nicholas W. (See Koch and Gales.)
- Galiardo, Ernest V., New York, N. Y. Apparatus for controlling respiration. No. 1,296,946; Mar. 11; v. 260; p. 292.
- Galibert, Maurice, New York, N. Y. Adhesive label. No. 1,295,300; Feb. 25; v. 259; p. 629.
- Galion Iron Works & Mfg. Co., The. (See Arndt, Franklin E., assignor.)
- Galguera y Gonzalez, Roque, Habana, Cuba. Filtering apparatus. No. 1,292,758; Jan. 28; v. 258; p. 734.
- Gallagher, Frank A., et al. (See Connolly, John J., assignor.)
- Gallagher, George D., Beaver Falls, Pa. Blade-sharpening device. No. 1,319,149; Oct. 21; v. 267; p. 372.
- Gallagher, Peter F., New Dorp, N. Y. Flexible stay-bolt connection. No. 1,300,832; Apr. 15; v. 261; p. 546.
- Gallagher, Peter F., Baltimore, Md., assignor to Flannery Bolt Company, Pittsburgh, Pa. Flexible staybolt. No. 1,323,040; Nov. 25; v. 268; p. 671.
- Gallagher, Richard D., Jr., New York, N. Y. Railway draft-rigging. No. 1,301,422; Apr. 22; v. 261; p. 703.
- Gallagher, Richard D., Jr., New York, N. Y. Railway buffing mechanism. No. 1,301,423; Apr. 22; v. 261; p. 703.
- Gallaher, Edward B., Norwalk, Conn. Duplex container. No. 1,290,965; Jan. 14; v. 258; p. 254.
- Galland-Henning Pneumatic Maltng Drum Mfg. Company. (See Peterman, William A., assignor.)
- Gallant, John E., Boston, Mass. Current-rectifying apparatus. No. 1,290,167; Jan. 7; v. 258; p. 37.
- Gallaudet Aircraft Corporation. (See Gallaudet, Edson F., assignor.)
- Gallaudet, Edson F., Providence, assignor to Gallaudet Aircraft Corporation, Kent county, R. I. Stay. No. 1,303,052; May 6; v. 262; p. 109.
- Galloway, Merrill W., New York, N. Y. Safety appliance for gas-stoves and the like. No. 1,322,894; Nov. 25; v. 268; p. 643.
- Galloo, Ritchie S., Victoria, British Columbia, Canada. Sparking device for internal-combustion engines. No. 1,322,687; Nov. 25; v. 268; p. 605.
- Gallet, Henri, assignor to Etablissements De Dion Bouton, Société Anonyme, Puteaux, France. Locking device for detachable wheels. No. 1,311,341; July 29; v. 264; p. 744.



## Alphabetical list of patentees—Continued.

- Galley, Auguste P., assignor to Societe Francaise du Ceramoid, Paris, France. Plastic material. No. 1,321,429; Nov. 11; v. 268; p. 266.
- Galligan, Edward H., Providence, R. I. Surgical appliance. No. 1,323,853; Dec. 2; v. 269; p. 118.
- Gallimore, John, and D. Cook, Edinburgh, Scotland. Gas oven or furnace. No. 1,323,041; Nov. 25; v. 268; p. 671.
- Gallinani, Luigi, Genoa, Italy. Hull for vessels in armed concrete. No. 1,299,699; Apr. 8; v. 261; p. 275.
- Gallinowsky, Hugo, assignor to A. Vizard, New Orleans, La. Treatment of wood waste and kindred substances. No. 1,326,894; Dec. 30; v. 269; p. 849.
- Gallmeier, Sigmund H., Rochester, N. Y. Camera. No. 1,313,285; Aug. 19; v. 265; p. 321.
- Galloway, Charles D., Philadelphia, Pa. Machine for dumping barrels and like containers. No. 1,305,087; May 27; v. 262; p. 593.
- Galloway, Lewis, Verona, and W. Reussner, Bloomfield, N. J. Detachable holder for battery-lamps. No. 1,319,997; Oct. 28; v. 267; p. 554.
- Gallsworthy, Benjamin, Port Arthur, Tex. Still. No. 1,294,357; Feb. 11; v. 259; p. 353.
- Galt, Hugh A., Barberton, Ohio. Process and product for utilizing niter cake and similar substances. No. 1,312,782; Aug. 12; v. 265; p. 207.
- Galt, Hugh A., Barberton, Ohio. Process and product for utilizing niter cake and similar substances. No. 1,312,783; Aug. 12; v. 265; p. 207.
- Galt, Hugh A., Barberton, Ohio. Manufacture of glass. No. 1,312,784; Aug. 12; v. 265; p. 207.
- Galvin, Dan, Paducah, Ky. Work-holder. No. 1,301,424; Apr. 22; v. 261; p. 704.
- Gamage, William T., Gloucester, Mass. Machine for cutting fish. No. 1,316,026; Sept. 16; v. 266; p. 307.
- Gamble, Bertus D., Pittsburgh, Pa. Explosion-engine. No. 1,314,137; Aug. 26; v. 265; p. 516.
- Gamble, Dorothy, New York, N. Y. Cleaning implement. No. 1,308,491; July 1; v. 264; p. 88.
- Gamble, Hervey E., London, England. Pneumatic action for automatic musical instruments. No. 1,291,670; Jan. 14; v. 258; p. 419.
- Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Fluid-proportioning apparatus. No. 1,290,538; Jan. 7; v. 258; p. 127.
- Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Liquid-weighing apparatus. No. 1,312,902; Aug. 12; v. 265; p. 230.
- Gamble, Joseph W., and W. S. Giele, Philadelphia, Pa., assignors to Harrison Safety Boiler Works. Integrating and recording instrument. No. 1,305,708; June 3; v. 263; p. 90.
- Gambrel, Ora L., Denver, Colo. Razor-stroppler. No. 1,316,228; Sept. 16; v. 266; p. 345.
- Gamewell Fire Alarm Telegraph Company, The. (See Beach, Clarence E., assignor.)
- Gamewell Fire Alarm Telegraph Company. (See Cole, Frederick W., assignor.)
- Gamewell Fire Alarm Telegraph Company, The. (See Doughty, Herman W., assignor.)
- Gamewell Fire Alarm Telegraph Company. (See Suren, Nathan L., assignor.)
- Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Drying macaroni. No. 1,300,718; Apr. 15; v. 261; p. 521.
- Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Die-press. No. 1,305,274; June 3; v. 263; p. 9.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing. No. 1,290,731; Jan. 7; v. 258; p. 174.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic-tire structure. No. 1,291,676; Jan. 14; v. 258; p. 420.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire. No. 1,299,167; Apr. 1; v. 261; p. 125.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rod-turning machine. No. 1,301,679; Apr. 22; v. 261; p. 752.
- Gammeter, John R., Akron, Ohio, and J. Bourguignon, Billancourt, France, assignor to The B. F. Goodrich Company, New York, N. Y. Stay-fastener for balloons. No. 1,292,596; Jan. 28; v. 258; p. 696.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing-press for battery-jars. No. 1,306,001; June 10; v. 263; p. 176.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Mold-opener. No. 1,309,128; July 8; v. 264; p. 235.
- Gammeter, John R., Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company. Machine for making tires. No. 1,310,236; July 15; v. 264; p. 476.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making cord tires and tire-making cord bands therefor. No. 1,313,286; Aug. 19; v. 265; p. 322.
- Gamper, G. Herman. (See Kingsbury, Elmer J., assignor.) (Reissue.)
- Gams, Alfons, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of product derived from ergot soluble in water and suitable for injections. No. 1,292,394; Jan. 21; v. 258; p. 625.
- Ganahl, Emil C. (See Gracey, James G., assignor.)
- Gandara, José F. (Sartorius, Gandara, and Colonna.)
- Gandek, Stanislaw, Uniontown, Pa. Freight-car. No. 1,305,351; June 3; v. 263; p. 23.
- Gandolfo, Giulio, Sameddarena, Italy. Electric welding-machine. No. 1,306,959; June 17; v. 263; p. 387.
- Gangewere, Ernest P., Chattanooga, Tenn. Lock. No. 1,300,719; Apr. 15; v. 261; p. 521.
- Gannoe Manufacturing Company. (See Gannoe, Thomas A., assignor.)
- Gannoe, Thomas A., Warren, Pa., assignor to Gannoe Manufacturing Company. Centrifugal gun. No. 1,309,129; July 8; v. 264; p. 235.
- Gannon, Joseph, Waiton, assignor to Steinfeld Bros., New York, N. Y. Portable crib. No. 1,321,905; Nov. 18; v. 268; p. 406.
- Gannon, Thomas J., Brooklyn, N. Y. Valve for flush-tanks. No. 1,304,303; May 20; v. 262; p. 405.
- Gannon, William F., Parkman, Wyo. Tool. No. 1,303,788; May 13; v. 262; p. 272.
- Gants, Maria, and O. W. Brown, Abilene, Kans. Separator. No. 1,290,732; Jan. 7; v. 258; p. 174.
- Ganzer, John M., Poughkeepsie, N. Y. Respiratory apparatus. No. 1,310,825; July 22; v. 264; p. 616.
- Ganzert, George. (See Saxon and Ganzert.)
- Garaca, Frank, Bessemer, Ala. Ship-protector. No. 1,298,325; Mar. 25; v. 260; p. 641.
- Garaca, Frank, Cleveland, Ohio. Battery. No. 1,316,836; Sept. 23; v. 266; p. 507.
- Garami, Joseph, Newark, N. J. Baby-carriage or perambulator. No. 1,313,683; Aug. 19; v. 265; p. 395.
- Garami, Joseph, Newark, N. J., assignor of one-half to S. Steiner, New York, N. Y. Toy. No. 1,294,441; Feb. 18; v. 259; p. 410.
- Garami, Joseph, Newark, N. J., assignor of one-half to S. Steiner, New York, N. Y. War-vehicle for children. No. 1,302,358; Apr. 29; v. 261; p. 912.
- Garami, Joseph, Newark, N. J., assignor of one-half to S. Steiner, New York, N. Y. Display device. No. 1,311,601; July 29; v. 264; p. 793.
- Garami, Joseph, Newark, N. J., and M. Fodor, New York, N. Y. Combination-doll. No. 1,325,986; Dec. 23; v. 269; p. 641.
- Garbell, Abraham, Philadelphia, Pa. Toilet-box. No. 1,317,918; Oct. 7; v. 267; p. 49.
- Garbel, Max, Chicago, Ill. Type-writing machine. No. 1,305,893; June 3; v. 263; p. 125.
- Garber, Arthur E., San Diego, Calif. Gas-engine gas-saver and carbon-decomposer. No. 1,325,286; Dec. 16; v. 269; p. 495.
- Garber, Ira A., Towson, Md. Railway-tie. No. 1,297,828; Mar. 18; v. 260; p. 510.
- Garbin, Jules F., Washington, D. C. Micrometer. No. 1,307,816; June 24; v. 263; p. 576.
- Garbis, Spiro D., Calcutta, India. Treasure-box and the like with keyless lock and metal seal. No. 1,312,970; Aug. 12; v. 265; p. 244.
- Garbisch, Theodore W., Carter, Mont. Funnel. No. 1,312,531; Aug. 12; v. 265; p. 157.
- Garbutt, Frank E., Los Angeles, Calif. Elliptic iris. No. 1,302,359; Apr. 29; v. 261; p. 912.
- Garcelon, George H., Swissvale, M. W. Bartmess, Wilksburg, and J. L. Chantemerle, Turtle Creek, Pa., assignors to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,300,373; Apr. 15; v. 261; p. 449.
- Garcia, Salvador A., Guadalupe, Mexico. Safety-lock for detecting the violation of containers. No. 1,323,527; Dec. 2; v. 269; p. 57.
- Garcián, Ciriaco, Mexico, Mexico. Advertising device. No. 1,303,650; May 13; v. 262; p. 246.
- Gard, Samuel E., Amlin, Ohio. Safety-razor. No. 1,310,333; July 15; v. 264; p. 493.
- Garden, Ernest, Los Angeles, Calif. Forming metal backs for artificial teeth. No. 1,322,424; Nov. 18; v. 268; p. 504.
- Gardiner, William, assignor, by mesne assignments, to W. H. Duggan, Chicago, Ill. Storage battery. No. 1,322,102; Nov. 18; v. 266; p. 442.
- Gardner, Arthur W. (See Ross, Robert H., assignor.)
- Gardner, Benjamin F., assignor of one-half to S. Stedman, Chicago, Ill. Direct-current signaling system. No. 1,301,425; Apr. 22; v. 261; p. 704.
- Gardner, Benjamin F., assignor of one-half to S. Stedman, Chicago, Ill. Electric inductance apparatus. No. 1,307,093; June 17; v. 263; p. 412.
- Gardner, Benjamin F., assignor of one-half to S. Stedman, Chicago, Ill. Rheostat. No. 1,310,696; July 22; v. 264; p. 591.
- Gardner, Charles F. (See Cartwright, Ernest O., assignor.)
- Gardner, Charles H., Kansas City, Mo., assignor to Standard Oil Company (of Indiana), Whiting, Ind. Tank-wagon. No. 1,324,548; Dec. 9; v. 269; p. 296.
- Gardner, Edmond J., Valliant, Okla. Safety attachment. No. 1,312,843; Aug. 12; v. 265; p. 219.



- Gardner, Edward B., assignor to Badger Tool Company, Beloit, Wis. Wheel-dressing means for grinding-machines. No. 1,320,752; Nov. 4; v. 268; p. 74.
- Gardner, Florida, Salt Lake City, Utah. Combination clothes-hanger and ironing-board. No. 1,311,766; July 29; v. 264; p. 823.
- Gardner, Frank P., Boston, Mass. Needle-guard attachment for sewing-machines. No. 1,307,295; June 17; v. 263; p. 448.
- Gardner, Frank P., Boston, Mass. Needle-guard for sewing-machines. No. 1,324,736; Dec. 9; v. 269; p. 331.
- Gardner, Frank V., Cincinnati, Ohio. Printing apparatus. No. 1,321,299; Nov. 11; v. 268; p. 241.
- Gardner, Henry A. (See Barton and Gardner.)
- Gardner, James P., Chicago, Ill., assignor to The Reducing Machine Company. Body-treatment machine. No. 1,305,595; June 3; v. 263; p. 71.
- Gardner, John, Fleetwood, England. Submarine sound-signaling. No. 1,310,011; July 15; v. 264; p. 435.
- Gardner, John A., Grifton, N. C. Cotton-planter. No. 1,319,952; Oct. 28; v. 267; p. 646.
- Gardner, John P., San Francisco, Calif. Metallic railway-tie and fastener. No. 1,311,386; July 29; v. 264; p. 753.
- Gardner, John T., Hamilton, assignor to The Defiance Machine Works, Defiance, Ohio. Wheel-assembling machine. No. 1,304,676; May 27; v. 262; p. 516.
- Gardner, Joseph, Tucumcari, N. Mex. Connecting-rod. No. 1,313,684; Aug. 19; v. 265; p. 396.
- Gardner, Joseph A., Memphis, Tenn. Tooth-brush. No. 1,323,042; Nov. 25; v. 268; p. 671.
- Gardner, Joseph F., Kansas City, Mo. Pneumatic fountain-pen. No. 1,307,195; June 17; v. 263; p. 430.
- Gardner, Lee, deceased, assignor of forty-five one-hundredths to J. F. Cannon, G. Dusenbery, and M. H. Caldwell, Concord, N. C.; J. F. Cannon, executor. Liquid-fuel burner. No. 1,297,138; Mar. 11; v. 260; p. 334.
- Gardner, Levi S., Detroit, Mich. Carbureter. No. 1,299,454; Apr. 8; v. 261; p. 219.
- Gardner, Levi S., Detroit, Mich. Carbureter. No. 1,316,706; Sept. 23; v. 266; p. 484.
- Gardner, Marshall B., assignor to International Corset Company, Aurora, Ill. Corset-clasp. No. 1,317,698; Oct. 7; v. 267; p. 8.
- Gardner, Virgil H., Glendale, Ky. End-gate for vehicle-bodies. No. 1,310,334; July 15; v. 264; p. 493.
- Gardon, Ambrose Peterson, Saskatchewan, Canada. Field straw-rack. No. 1,319,060; Oct. 21; v. 267; p. 354.
- Gare, Thomas, Sudbury, England. Apparatus for the manufacture of stabbed sheet metal. No. 1,313,809; Aug. 19; v. 265; p. 419.
- Garey, George G., Indianapolis, Ind. Stove and furnace. No. 1,322,425; Nov. 18; v. 268; p. 504.
- Garfield, James R., trustee. (See Wright, Joseph L., assignor.)
- Garford Manufacturing Company. (See Manson, Ray H., assignor.)
- Garford Manufacturing Company, The. (See Simek, Charles, assignor.)
- Gargan, John O., West New York, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signal-lantern. No. 1,291,825; Jan. 21; v. 258; p. 486.
- Garhart, Nathan K., Watertown, Mass. Bottle or jar for dispensing dental liquids and the like. No. 1,304,304; May 20; v. 262; p. 406.
- Garland, Ben. (See D'Eglibert and Garland.)
- Garland, Guy N. (See Jacobson and Garland.)
- Garland, Oscar A., Hot Springs, Ark. Steam-engine. No. 1,290,966; Jan. 14; v. 258; p. 254.
- Garland, William W. (See Fasel and Garland.)
- Garlick, Guy M., Kalamazoo, Mich., assignor to W. S. Mitchell, Gary, Ind. Making waterproofing compositions. No. 1,315,109; Sept. 2; v. 266; p. 116.
- Garlick, Guy M., Kalamazoo, Mich., assignor to W. S. Mitchell, Gary, Ind. Waterproofing composition. No. 1,315,110; Sept. 2; v. 266; p. 116.
- Garlick, Jew, Paterson, N. J. Self-grinding valve. No. 1,297,342; Mar. 18; v. 260; p. 407.
- Garlits, Edward E., Turtle Creek, Pa. Iron. No. 1,319,524; Oct. 21; v. 267; p. 442.
- Garlock, William H., Seattle, Wash. Bread-slicing machine. No. 1,307,397; June 24; v. 263; p. 500.
- Garman, George W., Philadelphia, Pa., assignor, by mesne assignments, to Electra Manufacturing Company. Suction-producing apparatus. No. 1,320,224; Oct. 28; v. 267; p. 596.
- Garman, George W., Philadelphia, Pa., assignor, by mesne assignments, of one-half to Electra Manufacturing Company. Self-aligning bearing. No. 1,323,626; Dec. 2; v. 269; p. 75.
- Garman, Lewis. (See Buckwalter and Garman.)
- Garner, Henry, Media, Pa. Bedclothes-retainer. No. 1,301,553; Apr. 22; v. 261; p. 728.
- Garner, James B. (See Zimmers, Jessop, Koenig, and Garner.)
- Garner, James B., assignor to Hope Natural Gas Company, Pittsburgh, Pa. Obtaining gasoline from hydrocarbon gases. No. 1,299,455; Apr. 8; v. 261; p. 219.
- Garner, James B., Pittsburgh, Pa., and H. C. Cooper, Clarksburg, W. Va., assignors to Hope Natural Gas Company, Pittsburgh, Pa. Recovery of butane and propane. No. 1,307,353; June 24; v. 263; p. 492.
- Garner, Joseph M., Prentiss, Miss. Horse-detacher. No. 1,295,153; Feb. 25; v. 259; p. 596.
- Garner, William R., Erie, Pa. Engine drive-wheel. No. 1,313,178; Aug. 12; v. 265; p. 285.
- Garnet Carter Co. (See Rose, Frederick C., assignor.)
- Garnett, Thomas W., Salina, assignor of one-third to L. G. Elder, Colwich, and one-third to F. E. Torgler, Topeka, Kans. Window-blind and lace-curtain holder. No. 1,297,139; Mar. 11; v. 260; p. 334.
- Garnett, Victor G., Fowler, Colo. Track-laying wheel. No. 1,292,751; Jan. 28; v. 258; p. 732.
- Garnier, Eugene, Lyon, France. Device for securing horses or mules while being shod. No. 1,318,202; Oct. 7; v. 267; p. 104.
- Garnier, Leonce, San Sebastian, Spain. Fuel-feeding apparatus for explosion-engines. No. 1,315,625; Sept. 9; v. 266; p. 218.
- Garred-Cavers Corporation. (See Garred, Ulysses A., assignor.)
- Garred, Ulysses A., assignor to Garred-Cavers Corporation, New York, N. Y. Combustion process and apparatus for practising the same. No. 1,311,807; July 29; v. 264; p. 831.
- Garred, Ulysses A., Elmhurst, N. Y. Treating slag. No. 1,319,061; Oct. 21; v. 267; p. 354.
- Garretson, Eugene, Buffalo, N. Y. Attachment for microscopes. No. 1,294,255; Feb. 11; v. 259; p. 330.
- Garretson, Joel H., Forsyth, Mont. Folding umbrella. No. 1,297,140; Mar. 11; v. 260; p. 334.
- Garretson, John D. (See Leibing, William E., assignor.)
- Garretson, John L., Buffalo, assignor to H. F. Waite, New York, N. Y. Dental-film-driving apparatus. No. 1,291,826; Jan. 21; v. 258; p. 486.
- Garrett, Clyde A. (See Gordon and Garrett.)
- Garrett, Frank, Jr., and H. K. Pratt, Leiston, assignors to Richard Garrett & Sons Limited, New Haven, England. Safety controlling-gear for electrically-propelled vehicles. No. 1,323,179; Nov. 25; v. 268; p. 698.
- Garrett, Robert E., Nashville, Tenn. Gear-cutting machine. No. 1,312,245; Aug. 5; v. 265; p. 73.
- Garrett, Spencer M. (See Mason, Julius H., assignor.)
- Garrett, Thomas B., Marshall, Tex. Measuring apparatus. No. 1,292,752; Jan. 28; v. 258; p. 733.
- Garrett, Thomas W., administrator. (See Brockbank, John.)
- Garrigues, William E., New Orleans, La., assignor to William Garrigue & Company, Inc., New York, N. Y. Evaporator. No. 1,298,925; Apr. 1; v. 261; p. 71.
- Garrigue, William E., deceased; John C. Guenther, administrator, Chicago, Ill., assignor to William Garrigue & Company, Inc., New York, N. Y. Evaporator. No. 1,317,488; Sept. 30; v. 266; p. 667.
- Garrison, Albert H., Kirkland, Wash. Saw cutting and setting device. No. 1,318,659; Oct. 14; v. 267; p. 252.
- Garrison, Harry E., Winnebago, assignor of one-half to A. J. Anderson, Rockford, Ill. Appliance for cloth-cutting machines. No. 1,293,751; Feb. 11; v. 259; p. 211.
- Garrison, Jacob T., Oakland, Calif. Rodent-exterminator. No. 1,309,193; July 8; v. 264; p. 246.
- Garrison, Perry J., assignor of one-half to W. Reed, Oxford, Mich. Package-carrier. No. 1,306,849; June 17; v. 263; p. 367.
- Garrison, Perry J., assignor of one-half to W. Reed, Oxford, Mich. Driving mechanism for vehicles. No. 1,318,372; Oct. 14; v. 267; p. 197.
- Garrison, Perry J., assignor of one-half to W. Reed, Oxford, Mich. Driving mechanism for motor-vehicles. No. 1,318,373; Oct. 14; v. 267; p. 197.
- Garrow, John W., assignor of one-third to J. D. Cumming and one-third to G. R. Craig, Copper Cliff, Ontario, Canada. Grinding-mill. No. 1,295,726; Feb. 25; v. 259; p. 728.
- Garside, Joseph, Brawley, Cal. Rotary amalgamator. No. 1,292,753; Jan. 28; v. 258; p. 733.
- Garst, Stephen H., Moline, Ill. Soil-surface pulverizer. No. 1,304,871; May 27; v. 262; p. 552.
- Gartin, Bert G., Fellows, Calif. Apparatus for controlling the flow of lubricating-oil in motors of motor-vehicles. No. 1,302,535; May 6; v. 262; p. 11.
- Gartner, Alfred, Washington, D. C. Display device. No. 1,301,117; Apr. 22; v. 261; p. 643.
- Gartner, Alfred, Washington, D. C. Container for candy, nuts, and the like. No. 1,301,118; Apr. 22; v. 261; p. 643.
- Gartner, Alfred, Washington, D. C. Display device. No. 1,301,119; Apr. 22; v. 261; p. 643.
- Garver, James L., Wichita, Kans. Direction-indicator. No. 1,295,301; Feb. 25; v. 259; p. 629.
- Garvey, Christopher A., Clayton, Mo. Brush. No. 1,297,675; Mar. 18; v. 260; p. 476.
- Garvey, Christopher A., Clayton, Mo. Fountain-brush. No. 1,305,709; June 3; v. 263; p. 91.
- Garvey, Christopher A., Clayton, Mo. Fountain-brush. No. 1,318,066; Oct. 7; v. 267; p. 77.
- Garvey, Edward, Farmington, Minn. Predetermined-bulk liquid-dispenser. No. 1,297,458; Mar. 18; v. 260; p. 431.



*Alphabetical list of patentees—Continued.*

- Garvey, Richard, Venice, Calif. Foot-fender. No. 1,301,426; Apr. 22; v. 261; p. 704.
- Garvin Machine Co., The. (See McClellan, Edward J., assignor.)
- Garwick, Floyd, Chicago, Ill. Vacuum feed mechanism. No. 1,310,393; July 15; v. 264; p. 504.
- Garwood, Charles E., Pasadena, Cal. Wave-engine. No. 1,292,303; Jan. 21; v. 258; p. 604.
- Garwood Company. (See Greubel, Michael J., assignor.)
- Garwood Company. (See Karitzky, John, assignor.)
- Gary, Shirley L., and F. B. Moss, Richmond, Va. Automatic self-locking expanding mandrel. No. 1,296,501; Mar. 4; v. 260; p. 152.
- Garyn, Patrick W. B. (See Meyer, Frederick W., assignor.)
- Gas and Oil Combustion Company. (See Lucke, Charles E., assignor.)
- Gas Power Machinery Company. (See Grine, Harry A., assignor.)
- Gascard, Georges, Paris, France. Machine for waxing sheets of cigarette-paper. No. 1,315,925; Sept. 9; v. 266; p. 275.
- Gasche, Ferdinand G., Chicago, Ill. Erosive blast apparatus. No. 1,317,363; Sept. 30; v. 266; p. 642.
- Gasiorowski, Wojciech, West Toronto, Ontario, Canada. Ship-protector. No. 1,294,081; Feb. 11; v. 259; p. 289.
- Gaskell, Joseph, *et al.* (See Gray, Albert, assignor.)
- Gaskins, Fred, *et al.* (See Bowen, Charles, assignor.)
- Gasoline Corporation. (See Greenstreet, Charles J., assignor.)
- Gasoline Products Company. (See Cross, Walter M., assignor.)
- Gasoline Turbine Motor Company. (See Morgan, Charles W., assignor.)
- Gasper, George C., Jr., assignor of one-half to M. G. Waschko, Hazleton, Pa. Hairpin. No. 1,315,926; Sept. 9; v. 266; p. 275.
- Gasperetti, Annibale. (See Dalboni, Gasperetti, and Albanese.)
- Gassmann, Eugene, Valley Stream, and H. W. Uhl, Freeport, assignors, by mesne assignments, to Eisemann Magneto Corporation, Brooklyn, N. Y. Magneto-electric machine. No. 1,322,103; Nov. 18; v. 268; p. 442.
- Gastrom, Herman, and J. A. Benson, New York, N. Y. Extension-rule. No. 1,293,079; Feb. 4; v. 259; p. 25.
- Gast, Adolph W., assignor to Chicago Miniature Lamp Works, Chicago, Ill. Process and apparatus for making glass-plate letters. No. 1,308,408; July 1; v. 264; p. 73.
- Gasteiger, Justus A., Pittsburgh, Pa. Apparatus for mixing and delivering concrete. No. 1,324,960; Dec. 16; v. 269; p. 434.
- Gaston, Frederick, Philadelphia, Pa. Railway-tie. No. 1,322,184; Nov. 18; v. 268; p. 458.
- Gaston, Henry F. (See Baumgartl and Gaston.)
- Gaston, Robert P., Baltimore, Md. Card-rack. No. 1,309,194; July 8; v. 264; p. 247.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Seam for sewed articles. No. 1,306,110; June 10; v. 263; p. 196.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Chain-stitch sewing-machine. No. 1,319,469; Oct. 21; v. 267; p. 432.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Looper-thread-controlling mechanism for sewing-machines. No. 1,319,470; Oct. 21; v. 267; p. 432.
- Gatchell, William P., Winsted, Minn. Attachment for internal-combustion engines. No. 1,326,044; Dec. 23; v. 269; p. 653.
- Gate, Charles E., Winnipeg, Manitoba, Canada. Clean-out plug. No. 1,304,174; May 20; v. 262; p. 380.
- Gates, Albert W., Portland, Ore. Saw. No. 1,295,477; Feb. 25; v. 259; p. 670.
- Gates, Charles C., Denver, Colo. Applying half-sole or repair tires. No. 1,323,976; Dec. 2; v. 269; p. 142.
- Gates, Charles C., assignor, by mesne assignments, to The Gates Rubber Company, Denver, Colo. Automobile-fan belt. No. 1,307,731; June 24; v. 263; p. 561.
- Gates, James C. (See Shirlow, Albert E., assignor.)
- Gates, James C. (See Shirlow and Hoarse, assignors.)
- Gates, John W., Montreal, Quebec, Canada. Furnace. No. 1,300,374; Apr. 15; v. 261; p. 449.
- Gates, Linwood L., Bernard, N. Y. Camera-tripod. No. 1,306,057; June 10; v. 263; p. 186.
- Gates, Louis W., and J. T. Allmand, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Window-steadying device. No. 1,311,162; July 29; v. 264; p. 711.
- Gates, Philetus W., Chicago, Ill. assignor to Mumford Molding Machine Company, Jersey City, N. J. Compound jolt ramming-machine. No. 1,306,425; June 10; v. 263; p. 257.
- Gates, Quincy A. (See Bunnell and Gates.)
- Gates Rubber Company, The. (See Gates, Charles C., assignor.)
- Gates, Thayer P., Philadelphia, Pa. Art of and mechanism for renewing warp in looms. No. 1,318,442; Oct. 14; v. 267; p. 210.
- Gatewood, William, Newport News, Va. Construction of ways for launching vessels. No. 1,292,754; Jan. 28; v. 258; p. 733.
- Gatewood, William, Newport News, Va. Floating vessel. No. 1,315,489; Sept. 9; v. 266; p. 196.
- Gathmann, Emil, Baltimore, Md. Fuse mechanism for projectiles. No. 1,296,070; Mar. 4; v. 260; p. 58.
- Gathmann, Emil, Baltimore, Md. Percussion-fuse for explosive shells. No. 1,296,281; Mar. 4; v. 260; p. 166.
- Gathmann, Emil, Baltimore, Md. Apparatus for teeming ingot-molds. No. 1,298,034; Mar. 25; v. 260; p. 580.
- Gathmann, Emil, Baltimore, Md. Teeming ingot-molds. No. 1,298,035; Mar. 25; v. 260; p. 580.
- Gathmann, Emil, Baltimore, Md. Teeming ingot-molds. No. 1,298,036; Mar. 25; v. 260; p. 580.
- Gathmann, Emil, Baltimore, Md. Projectile-fuse time-train ring. No. 1,301,928; Apr. 29; v. 261; p. 831.
- Gathmann, Emil, Baltimore, Md. Grenade-projectile. No. 1,301,929; Apr. 29; v. 261; p. 831.
- Gathmann, Emil, Baltimore, Md. Fuse mechanism for projectiles. No. 1,292,395; Jan. 21; v. 258; p. 626.
- Gathmann, Emil, Baltimore, Md. High-explosive shell. No. 1,316,296; Sept. 16; v. 266; p. 357.
- Gathmann, Emil, Baltimore, Md. Apparatus for teeming molds. No. 1,321,300; Nov. 11; v. 268; p. 241.
- Gatica, Rafael A., Rancagua, Chile. Machine for dividing and coring fruit. No. 1,294,336; Feb. 11; v. 259; p. 348.
- Gatrell, Edward T. (See Neill and Gatrell.)
- Gatten, Joseph T., Danbury, Wis. Rail-fastener. No. 1,315,111; Sept. 2; v. 266; p. 116.
- Gau, Lawrence M., Seattle, Wash. Tool-box. No. 1,318,007; Oct. 7; v. 267; p. 66.
- Gaudart, Edmond E. R., Paris, France. Apparatus for husking earth-nuts and the like. No. 1,323,043; Nov. 25; v. 268; p. 671.
- Gauger, Frank A. (See Rutz and Gauger.)
- Gaugh, John A., St. Clair, Mo. Corn-harvester. No. 1,318,272; Oct. 7; v. 267; p. 118.
- Gaul, Sebastian, Hoboken, N. J. Spittoon-holder. No. 1,318,660; Oct. 14; v. 267; p. 252.
- Gault, Frank W., Jr., Okolona, Ky., assignor to The Perfect Combustion Burner and Mixer Company, Dover, Del. Gas-burner. No. 1,325,782; Dec. 23; v. 269; p. 604.
- Gaunt, Charles F., Birmingham, England. Metallic badge and the like. No. 1,323,977; Dec. 2; v. 269; p. 142.
- Gaunt, Joseph S., and H. Dyson, Manchester, England. Lappet for spinning and like machines. No. 1,302,029; Apr. 29; v. 261; p. 850.
- Gaunt, Joseph S., and H. Dyson, Manchester, England. Spindle of spinning and like machines. No. 1,291,827; Jan. 21; v. 258; p. 486.
- Gausewitz, William H. (See Compton, Ness, Gausewitz, and Green.)
- Gauss, Charles J., Duluth, Minn. Filler for automobile-radiators. No. 1,316,154; Sept. 16; v. 266; p. 331.
- Gauthier, Ernest, Chemin Gouin, Hebert Station, Quebec, Canada. Animal-trap. No. 1,296,282; Mar. 4; v. 260; p. 106.
- Gauthier, J. Alfred. (See Schwartz and Whiteside, assignors.)
- Gauthier, Joseph A. (See Simon, Gauthier, and Hauser.)
- Gautier, Raoul C., assignor to Thompson & Binger, Inc., New York, N. Y. Reinforced concrete construction. No. 1,318,861; Oct. 14; v. 267; p. 290.
- Gaver, Grace E., Baltimore, Md. Sadiron wax-pad. No. 1,317,970; Oct. 7; v. 267; p. 59.
- Gaviak, Joseph G., Monongahela, Pa. Kitchen utensil. No. 1,290,168; Jan. 7; v. 258; p. 37.
- Gay, Mary, Butte, Mont. Envelop. No. 1,303,551; May 13; v. 262; p. 229.
- Gay, Verner M., Danbury, Conn. Foldable table. No. 1,308,350; July 1; v. 264; p. 62.
- Gay, Wesley C., Augusta, Ga. Wrench-head. No. 1,324,042; Dec. 9; v. 269; p. 193.
- Gaydou, Adolphe. (See Accornero and Gaydou.)
- Gayley, James. (See Weaver and Gayley.)
- Gaylord, Robert H., Pasadena, assignor to R. H. Gaylord Company, Los Angeles, Calif. Elevator signal system. No. 1,322,895; Nov. 25; v. 268; p. 643.
- Gear Improvement Company. (See Williams, Harvey D., assignor.)
- Gearhart, Frederick D., Lock Haven, Pa. Collapsible container. No. 1,322,426; Nov. 18; v. 268; p. 504.
- Geary, James J., Clatskanie, Ore. Spar-tree rigging device. No. 1,317,871; Oct. 7; v. 267; p. 40.
- Geary, William B., Medicine Hat, Alberta, Canada. Internal-combustion engine. No. 1,312,971; Aug. 12; v. 265; p. 244.
- Gebhardt, George F., Chicago, Ill. Window-ventilator and the like. No. 1,323,978; Dec. 2; v. 269; p. 142.
- Gebrueder Siemens & Co. (See Buchwald, Quisser, and Viertel, assignors.)
- Gedeon, Andreas, Chicago, Ill. Pipe-fitting. No. 1,325,783; Dec. 23; v. 269; p. 604.
- Gee, Forest R. (See McKinney, William D., assignor.)
- Gee, Hector L. (See Cook, Gee, and Townsend.)
- Gee, Homer H., *et al.* (See Cook, Gee, and Townsend, assignors.)



- Geer, Norman E., Altoona, Pa. Double-acting fuel crushing and feeding device. No. 1,308,900; July 8; v. 264; p. 192.
- Geer, Norman E., Altoona, Pa. Automatic distributor mechanism for stokers. No. 1,318,067; Oct. 7; v. 267; p. 77.
- Geer, Norman E., Altoona, Pa. Liquid-cooling apparatus. No. 1,320,130; Oct. 28; v. 267; p. 579.
- Gee, William J., London, England. Variable-speed gear and clutch. No. 1,303,287; May 13; v. 262; p. 181.
- Gee, William J., London, England. Separating solids from suspension in liquids and apparatus therefor. No. 1,312,316; Aug. 5; v. 265; p. 86.
- Geelhart, Herman M., Roundup, Mont. Track-dressing machine. No. 1,322,688; Nov. 25; v. 268; p. 605.
- Geen, Bertha M., Kelowna, British Columbia, Canada. Button-form. No. 1,305,275; June 3; v. 263; p. 9.
- Geer, H. M. (See Silvernail, William L., assignor.)
- Geer, Harry R., Johnstown, Pa. Reversing apparatus for regenerative reversing-furnaces. No. 1,307,004; June 17; v. 263; p. 395.
- Geer, Harry R., Johnstown, Pa. Metal-piercing. No. 1,321,096; Nov. 11; v. 268; p. 202.
- Geer, Henry J., Providence, R. I. Combined toy wrist watch and whistle. No. 1,306,662; June 10; v. 263; p. 300.
- Geer, Maurice F., Irondequoit, assignor to General Railway Signal Company, Gates, N. Y. Auxiliary time-key for selective railway signaling systems. No. 1,291,473; Jan. 14; v. 258; p. 372.
- Geer, Paul L., Bellevue, assignor to E. M. Moore, Pittsburgh, Pa. Chaplet. No. 1,304,959; May 27; v. 262; p. 568.
- Geeraerd, Evariste, Prestwich, assignor to G. J. Stanfield, Manchester, England. Electrolytic cell for production of oxygen and hydrogen. No. 1,308,704; July 1; v. 264; p. 127.
- Geho, Samuel M., Grantsville, W. Va. Hay and straw stacker. No. 1,302,030; Apr. 29; v. 261; p. 851.
- Gehr, W. H. (See Cuddigan, Bartholemew O., assignor.) (Reissue.)
- Gehret, Samuel P., York, Pa. Door-lock. No. 1,304,175; May 20; v. 262; p. 381.
- Gehrig, William F., Newark, N. J., assignor to Essex Specialty Co. Toy pistol. No. 1,321,817; Nov. 18; v. 268; p. 390.
- Gehring, Casimer, Paris, France, and C. C. Cadden, assignors to Mechanical Efficiency Company, Akron, Ohio. Mail-distributing apparatus. No. 1,324,247; Dec. 9; v. 269; p. 237.
- Gehring, Louis C., Circleville, Ohio. Method and apparatus for separating fibrous and non-fibrous materials in food products. No. 1,314,864; Sept. 2; v. 266; p. 72.
- Gehring, John, Ann Arbor, Mich. Weed-exterminator. No. 1,312,246; Aug. 5; v. 265; p. 73.
- Gehrisch, Harry E., Bluffton, Ohio. Hog-feeder. No. 1,316,785; Sept. 23; v. 266; p. 498.
- Gehrke, Otto J., Tacoma, N. Y. Circular-saw table. No. 1,304,872; May 27; v. 262; p. 552.
- Gehrlein, Anton A., Erie, Pa. Dyeing. No. 1,292,453; Jan. 28; v. 258; p. 661.
- Gehrmann, Charles A. L., Springfield, Ill. Motion-picture apparatus. No. 1,321,906; Nov. 18; v. 268; p. 406.
- Gehrmann, Charles A. L., Springfield, Ill. Method and means for producing motion-pictures. No. 1,323,180; Nov. 25; v. 268; p. 698.
- Gehrmann, Elizabeth M., South Bellingham, Wash. Ashpan. No. 1,318,548; Oct. 14; v. 267; p. 231.
- Geib, Carl A., New York, N. Y. Game-board. No. 1,315,927; Sept. 9; v. 266; p. 275.
- Geier, John L., Chicago, Ill. Measuring-tank. No. 1,304,305; May 20; v. 262; p. 406.
- Geiger, Tracey E., assignor to The Troy Wagon Works Company, Troy, Ohio. Coupling mechanism. No. 1,321,519; Nov. 11; v. 268; p. 283.
- Geiger, Wesley H., Wormleysburg, Pa. Electric signal. No. 1,310,414; July 22; v. 264; p. 540.
- Geiger, Wesley H., Wormleysburg, Pa. Three-position annunciator. No. 1,311,118; July 22; v. 264; p. 669.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Operating mechanism for hand-brakes. No. 1,300,375; Apr. 15; v. 261; p. 449.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,300,376; Apr. 15; v. 261; p. 450.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorbing mechanism. No. 1,303,288; May 13; v. 262; p. 182.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Door-operating mechanism for refrigerator-car doors. No. 1,303,880; May 20; v. 262; p. 327.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Stop-casting. No. 1,314,188; Aug. 26; v. 265; p. 525.
- Geimer, Anthony P., assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Tray. No. 1,291,474; Jan. 14; v. 258; p. 372.
- Geis, Joseph, Carrick, Pa. Motive power. No. 1,294,648; Feb. 18; v. 259; p. 457.
- Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Metal-heating device. No. 1,299,931; Apr. 8; v. 261; p. 326.
- Geisenhoner, Henry, Schenectady, N. Y., assignor to General Electric Company. Electric welding. No. 1,310,070; July 15; v. 264; p. 446.
- Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Metal-heating device. No. 1,323,751; Dec. 2; v. 269; p. 99.
- Geiser, Leonard, Cincinnati, Ohio. Pedal-locking mechanism. No. 1,312,247; Aug. 5; v. 265; p. 74.
- Geissenhainer, Frederick W. (See Cumner and Geissenhainer.)
- Geissinger, Harry G., New York, N. Y., assignor to The Peoples State Bank, trustee, Detroit, Mich. Electric-contact thermostat. No. 1,315,601; Sept. 9; v. 266; p. 215.
- Geissinger, Harry G., New York, N. Y., assignor to The Peoples State Bank, trustee, Detroit, Mich. Electric-contact thermostat. No. 1,315,602; Sept. 9; v. 266; p. 215.
- Geissinger, Harry G., New York, N. Y., assignor to The Peoples State Bank, trustee, Detroit, Mich. Electric-contact thermostat. No. 1,315,603; Sept. 9; v. 266; p. 215.
- Geissinger, Harry G., New York, N. Y., assignor to The Peoples State Bank, trustee, Detroit, Mich. Electric-contact thermostat. No. 1,316,361; Sept. 16; v. 266; p. 370.
- Geist, Burnett P., assignor to Ideal Stencil Machine Company, Belleville, Ill. Making dies. No. 1,325,194; Dec. 16; v. 269; p. 478.
- Geist, Carleton. (See Wiederwax, Robert W., assignor.)
- Geist, Clifford W., and C. Frey, Cincinnati, Ohio. Pressure-release collar. No. 1,291,475; Jan. 14; v. 258; p. 372.
- Geist, Harry F., assignor, by mesne assignments, to Webster Electric Company, Racine, Wis. Ignition mechanism for internal-combustion engines. No. 1,308,235; July 1; v. 264; p. 42.
- Geist, William, St. Louis, Mo. Glare-protector. No. 1,313,083; Aug. 12; v. 265; p. 266.
- Geist, William, et al. (See Clyne, Robert G., assignor.)
- Geistwhite, John. (See Bohmker and Geistwhite.)
- Geitner, Alexander L., Rochester, N. Y. Adjustable hollow milling-tool. No. 1,300,158; Apr. 8; v. 261; p. 376.
- Gelarie, Louis. (See Gelarie and Milkewitz.)
- Gelarie, Louis. (See Milkewitz and Gelarie.)
- Gelarie, Saul. (See Milkewitz and Gelarie.)
- Gelarie, Saul, H. Milkewitz, and L. Gelarie, New York, N. Y. Cementing-machine. No. 1,318,661; Oct. 14; v. 267; p. 252.
- Gelatt, Philo M., La Crosse, Wis. Gage-support. No. 1,296,071; Mar. 4; v. 260; p. 58.
- Gelatt, Philo M., La Crosse, Wis. Dial-plate construction. No. 1,297,459; Mar. 18; v. 260; p. 431.
- Gelertsen, Otto E., Westfield, N. J., assignor to Greenfield Paper Bottle Company, New York, N. Y. Purifying waterproofing compositions. No. 1,310,158; July 15; v. 264; p. 462.
- Gelhaar, Harry J., Lincoln, Nebr., assignor of one-half to L. J. Seibert, Kansas City, Mo. Anti-explosive attachment for dry-cleaning tumblers. No. 1,310,184; July 15; v. 264; p. 466.
- Gelinas, Raphael H., South Hadley Falls, assignor to Draper Corporation, Hopedale, Mass. Harness-stop-motion for looms. No. 1,311,767; July 29; v. 264; p. 823.
- Gellerman, Herman F., Berkeley, Calif. Valve-grinding tool. No. 1,307,296; June 17; v. 263; p. 449.
- Gelling, John W., Mexico, Mexico. Wheel-vehicle. No. 1,308,409; July 1; v. 263; p. 73.
- Gellman, Hyman. (See Storch and Gellman.)
- Gem Crib & Cradle Company. (See Shuffleton, Wilford P., assignor.)
- Gemco Manufacturing Company. (See Ollenburg, Arthur A., assignor.)
- Gemmell, Thomas H., Guelph, Ontario, Canada. Locknut. No. 1,319,861; Oct. 28; v. 267; p. 529.
- Gemmell, W. H., et al. (See Kerr, George C., assignor.)
- Gendron Manufacturing Company, The. (See White and Vezina, assignors.)
- General Aluminum & Brass Manufacturing Company. (See Fiegel, William J., assignor.)
- General Automatic Scale Company, The. (See Schaper, Henry C., assignor.)
- General Bakelite Company. (See Backeland, Leo H., assignor.)
- General Briquetting Co. (See Schumacher, Wilhelm, assignor.)
- General Briquetting Company. (See Vogel, Felix A., assignor.)
- General Chain Company. (See Speidel, Eugen, assignor.)
- General Chemical Company. (See Benjamin, Charles S., assignor.)
- General Chemical Company. (See Bowman, Frederic C., assignor.)
- General Chemical Company. (See Briggs, Thomas L., assignor.)
- General Electric Company. (See Alexanderson, Ernst F. W., assignor.)



*Alphabetical list of patentees—Continued.*

- General Electric Company. (See Alexanderson and Prince, assignors.)  
 General Electric Company. (See Arnold, Lyman, assignor.)  
 General Electric Company. (See Atwood, Winfield A., assignor.)  
 General Electric Company. (See Axtell, Clinton J., assignor.)  
 General Electric Company. (See Bailey, Percy S., assignor.)  
 General Electric Company. (See Ball, John D., assignor.)  
 General Electric Company. (See Barton, Frederick C., assignor.)  
 General Electric Company. (See Basch, David, assignor.)  
 General Electric Company. (See Batchelder, Asa F., assignor.)  
 General Electric Company. (See Beach, Ralph L., assignor.)  
 General Electric Company. (See Beck, Heinrich, assignor.)  
 General Electric Company. (See Berry, Arthur F., assignor.)  
 General Electric Company. (See Bodde, Theodore, assignor.)  
 General Electric Company. (See Brand, Frederick F., assignor.)  
 General Electric Company. (See Branin, Mark H., assignor.)  
 General Electric Company. (See Briggs, Robert M., assignor.)  
 General Electric Company. (See Brown, Lewis R., assignor.)  
 General Electric Company. (See Bullock, Charles F., assignor.)  
 General Electric Company. (See Burkley, Clem J., assignor.)  
 General Electric Company. (See Burnham, Locke H., assignor.)  
 General Electric Company. (See Capello, Frank, assignor.)  
 General Electric Company. (See Carichoff, Eugene R., assignor.)  
 General Electric Company. (See Carothers, Robert M., assignor.)  
 General Electric Company. (See Case, Frank E., assignor.)  
 General Electric Company. (See Chadbourne and Knight, assignors.)  
 General Electric Company. (See Chadwick, Ralph H., assignor.)  
 General Electric Company. (See Chatain and Stock, assignors.)  
 General Electric Company. (See Cheeseman, Ralph T., assignor.)  
 General Electric Company. (See Collins, Edgar F., assignor.)  
 General Electric Company. (See Connely, Charles B., assignor.)  
 General Electric Company. (See Coolidge, William D., assignor.)  
 General Electric Company. (See Craighead, James R., assignor.)  
 General Electric Company. (See Creighton, Elmer E. F., assignor.)  
 General Electric Company. (See Cummings, Joseph R., assignor.)  
 General Electric Company. (See Cunningham, Major M., assignor.)  
 General Electric Company. (See Davey, Wheeler P., assignor.)  
 General Electric Company. (See Davis, Harvey N., assignor.)  
 General Electric Company. (See De Reamer, Frank C., assignor.)  
 General Electric Company. (See Devers, Philip K., Jr., assignor.)  
 General Electric Company. (See Doane, Burrows, and Sinclair, assignors.)  
 General Electric Company. (See Dodge, Austin R., assignor.)  
 General Electric Company. (See Doran, John H., assignor.)  
 General Electric Company. (See Dunning, Parker, assignor.)  
 General Electric Company. (See Eaton, John, assignor.)  
 General Electric Company. (See Eby, Eugene D., assignor.)  
 General Electric Company. (See Elliott, Clarence V., assignor.)  
 General Electric Company. (See Emden, Paul, assignor.)  
 General Electric Company. (See Emmett, William L. R., assignor.)  
 General Electric Company. (See Faccioli, Giuseppe, assignor.)  
 General Electric Company. (See Filkins, Charles D., assignor.)  
 General Electric Company. (See Flügel, Gustav, assignor.)  
 General Electric Company. (See Forsberg, Peter W., assignor.)  
 General Electric Company. (See Frank, John J., assignor.)  
 General Electric Company. (See Fuller, Carl T., assignor.)  
 General Electric Company. (See Geisenhöner, Henry, assignor.)  
 General Electric Company. (See Goldsmith, Alfred N., assignor.)  
 General Electric Company. (See Green, Frank C., assignor.)  
 General Electric Company. (See Guay, Emile J., assignor.)  
 General Electric Company. (See Hain, Velt A., assignor.)  
 General Electric Company. (See Hall, Chester L., assignor.)  
 General Electric Company. (See Hall, John L., assignor.)  
 General Electric Company. (See Hamilton, William S. H., assignor.)  
 General Electric Company. (See Harrison, Ward, assignor.)  
 General Electric Company. (See Hendricks, Allan B., Jr., assignor.)  
 General Electric Company. (See Hewlett, Edward M., assignor.)  
 General Electric Company. (See Hewlett and Burkholder, assignors.)  
 General Electric Company. (See Hill, Charles H., assignor.)  
 General Electric Company. (See Hill, George H., assignor.)  
 General Electric Company. (See Hobart, Henry M., assignor.)  
 General Electric Company. (See Hull, Albert W., assignor.)  
 General Electric Company. (See Hull, John I., assignor.)  
 General Electric Company. (See Hutt, Leonard P., assignor.)  
 General Electric Company. (See Jacobs, Ernest H., assignor.)  
 General Electric Company. (See Jacobs, Harry M., assignor.)  
 General Electric Company. (See Johannesen, Svend E., assignor.)  
 General Electric Company. (See Jones, Benjamin W., assignor.)  
 General Electric Company. (See Junggren, Oscar, assignor.)  
 General Electric Company. (See King, Terry T., assignor.)  
 General Electric Company. (See King, William L., assignor.)  
 General Electric Company. (See Korthals-Altes, Willem C., assignor.)  
 General Electric Company. (See Langmuir, Irving, assignor.)  
 General Electric Company. (See Larzelere, Charles B., assignor.)  
 General Electric Company. (See Le Rossignol, Robert, assignor.)  
 General Electric Company. (See Lemp, Hermann, assignor.)  
 General Electric Company. (See Loewenstein, Louis C., assignor.)  
 General Electric Company. (See London, William J. A., assignor.)  
 General Electric Company. (See London and Phillips, assignors.)  
 General Electric Company. (See Lorenz, Charles F., assignor.)  
 General Electric Company. (See Lumley, Wilfrid, assignor.)  
 General Electric Company. (See McLain and Eaton, assignors.)  
 General Electric Company. (See Macloskie, George, assignor.)  
 General Electric Company. (See Macmillan, Campbell, assignor.)  
 General Electric Company. (See Mann, Arthur S., assignor.)  
 General Electric Company. (See Mapelsden, Harold H., assignor.)  
 General Electric Company. (See Marshall, James E., assignor.)  
 General Electric Company. (See Merriam, Ezra B., assignor.)  
 General Electric Company. (See Merrill, Wilbur L., assignor.)  
 General Electric Company. (See Miller, Levi B., assignor.)  
 General Electric Company. (See Moody, Walter S., assignor.)  
 General Electric Company. (See Moore, Daniel M., assignor.)  
 General Electric Company. (See Morgenthaler, Peter C., assignor.)  
 General Electric Company. (See Murphy, Edwin J., assignor.)  
 General Electric Company. (See Noble, Paul O., assignor.)  
 General Electric Company. (See Nolte, Henry J., assignor.)  
 General Electric Company. (See Orange, John A., assignor.)  
 General Electric Company. (See Orr, Clark, assignor.)  
 General Electric Company. (See Pacz, Aladar, assignor.)



- General Electric Company. (See Parsons, Robert J., assignor.)
- General Electric Company. (See Payne, John H., assignor.)
- General Electric Company. (See Pearson, Edwin R., assignor.)
- General Electric Company. (See Peckham, Reginald F., assignor.)
- General Electric Company. (See Persson, Otto F., assignor.)
- General Electric Company. (See Porter and Ellis, assignors.)
- General Electric Company. (See Potter, William B., assignor.)
- General Electric Company. (See Priest, Edward D., assignor.)
- General Electric Company. (See Prince, David C., assignor.)
- General Electric Company. (See Quackenbush, Harvey E. and C. L., assignors.)
- General Electric Company. (See Quackenbush and Smedley, assignors.)
- General Electric Company. (See Rice, Richard H., assignor.)
- General Electric Company. (See Rogers, Robert H., assignor.)
- General Electric Company. (See Robinson and Hardy, assignors.)
- General Electric Company. (See Rolph and Lumley, assignors.)
- General Electric Company. (See Runner, Claude C., assignor.)
- General Electric Company. (See Sanborn, Hugh D., assignor.)
- General Electric Company. (See Sargent, Howard R., assignor.)
- General Electric Company. (See Schinscholl, Erich, assignor.)
- General Electric Company. (See Sclater, Ivanhoe H., assignor.)
- General Electric Company. (See Sharp, Clayton H., assignor.)
- General Electric Company. (See Shaw, Edward T., assignor.)
- General Electric Company. (See Shorey, John A., assignor.)
- General Electric Company. (See Shuttleworth and Brown, assignors.)
- General Electric Company. (See Stack, George E., assignor.)
- General Electric Company. (See Steenstrup, Christian, assignor.)
- General Electric Company. (See Steinmetz, Charles P., assignor.)
- General Electric Company. (See Stevens, George E., assignor.)
- General Electric Company. (See Stock, Henry W., assignor.)
- General Electric Company. (See Suman, Ruppert W., assignor.)
- General Electric Company. (See Summerhayes, Henry L., assignor.)
- General Electric Company. (See Swan, Alfred, assignor.)
- General Electric Company. (See Taylor, John B., assignor.)
- General Electric Company. (See Thompson, Louis W., assignor.)
- General Electric Company. (See Traver, Oliver C., assignor.)
- General Electric Company. (See Treanor, Edward D., assignor.)
- General Electric Company. (See Tittle, John F., assignor.)
- General Electric Company. (See Unger, Magnus, assignor.)
- General Electric Company. (See Van Amberg, Otto H., assignor.)
- General Electric Company. (See Van Keuren, William L., assignor.)
- General Electric Company. (See Ver Planck, William E., assignor.)
- General Electric Company. (See Ver Planck and Stock, assignors.)
- General Electric Company. (See Wagner, Robert E., assignor.)
- General Electric Company. (See Wallace, Curtis C., assignor.)
- General Electric Company. (See Weed, James M., assignor.)
- General Electric Company. (See Weintraub, Ezechiel, assignor.)
- General Electric Company. (See Wentworth, Arthur M., assignor.)
- General Electric Company. (See White, William C., assignor.)
- General Electric Company. (See Whiting, Max A., assignor.)
- General Electric Company. (See Wliard, John B., assignor.)
- General Electric Company. (See Wilkinson, James, assignor.)
- General Electric Company. (See Williams, William S., assignor.)
- General Electric Company. (See Winne, Harry A., assignor.)
- General Electric Company. (See Wood, James J., assignor.)
- General Engineering and Construction Company. (See Ashley, Charles G., assignor.)
- General Excello Manufacturing Company. (See Willis and Fisher, assignors.)
- General Fire Extinguisher Company. (See Barrows, George S., assignor.)
- General Fire Extinguisher Company. (See Knight, Ira W., assignor.)
- General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)
- General Fire Extinguisher Company. (See Meloon, Jonathan C., assignor.)
- General Fire Extinguisher Company. (See Park, Nicholas W., assignor.)
- General Fireproofing Company, The. (See Herbert, Arthur W., assignor.)
- General Fireproofing Company, The. (See White, Herbert E., assignor.)
- General Industries Company. (See Brinkman, Louis H., assignor.)
- General Laboratories Company, The. (See Tomashot, Arthur W., assignor.)
- General Lead Batteries Company. (See Handler, Eugene, assignor.)
- General Machine and Manufacturing Company, The. (See Hjorth, David, assignor.)
- General Machinery and Investment Company, The. (See Miller, Stanley G., assignor.)
- General Machinery & Investment Company, The. (See Miller and De Witt, assignors.)
- General Manifold and Printing Company, The. (See Lewis, Edward Z., assignor.)
- General Metals Company. (See Sattley and Ross, assignors.)
- General Motors Company. (See Randall, Dwight T., assignor.)
- General Motors Company. (See Short, Charles R., assignor.)
- General Motors Corporation. (See Erskine, James, assignor.)
- General Motors Corporation. (See Richard and Heginbottom, assignors.)
- General Optical Company. (See Greiner, Arno, assignor.)
- General Optical Company. (See La Fortune, Albert H., assignor.)
- General Petroleum Corporation. (See Leslie, Eugene H., assignor.)
- General Railway Signal Company. (See Bushnell, Charles S., assignor.)
- General Railway Signal Company. (See Carter, Ainslie T., assignor.)
- General Railway Signal Company. (See Casper, Frank T., assignor.)
- General Railway Signal Company. (See Dodge, Lyman E., assignor.)
- General Railway Signal Company. (See Geer, Maurice F., assignor.)
- General Railway Signal Company. (See Howe, Henry, and Hall, assignors.)
- General Railway Signal Company. (See Howe, Winthrop K., assignor.)
- General Railway Signal Company. (See Leake, Richard C., assignor.)
- General Railway Signal Company. (See Rekers, Gerret, assignor.)
- General Railway Signal Company. (See Salmon and Dodgson, assignors.)
- General Railway Signal Company. (See Taylor, Herbert B., assignor.)
- General Railway Signal Company. (See Wight, Sedgwick N., assignor.)
- General Reduction Gas and By-Products Company. (See Hornsey, John W., assignor.)
- General Refractories Company. (See Hepler, Irvin F., assignor.)
- General Research Laboratories. (See Knox and Mallet, assignors.)
- General Research Laboratories. (See Moisant, Alfred J., assignor.)
- General Rubber Company. (See Slocum, Edward M., assignor.)
- General Textile Machinery Company. (See Going, William J., assignor.)
- General Wire Tie Company. (See Warwick, Rogers M., assignor.)
- Genesee Pure Food Company, The. (See Nico, Andrew S., assignor.)
- Geneva Cutlery Corporation. (See Unsinger, Philip H., assignor.)
- Geng, Jacob, Brinkman, Mont. Hair-fastener. No. 1,306,589; June 10; v. 263; p. 286.
- Genge, Fredrick C., assignor to The Marshall Ventilated Mattress Company, Chicago, Ill. Cushion or mattress. No. 1,321,095; Nov. 11; v. 268; p. 202.



## Alphabetical list of patentees—Continued.

- Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Instrument-board. No. 1,300,377; Apr. 15; v. 261; p. 450.
- Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Spark-plug. No. 1,315,298; Sept. 9; v. 266; p. 161.
- Genova, Joseph A., Oyster Bay, N. Y. Saw-set. No. 1,315,222; Sept. 9; v. 266; p. 147.
- Genovese, Rosario, assignor of one-half to M. Farber, New York, N. Y. Toy aeroplane. No. 1,313,849; Aug. 19; v. 265; p. 427.
- Gentel, Charles. (See Eastman and Gentel.)
- Genter, Helen C., administratrix. (See Genter, Jacob H.)
- Genter, Jacob H., deceased, Newburgh, N. Y.; H. C. Genter, administratrix. Film-rewinder. No. 1,313,084; Aug. 12; v. 265; p. 266.
- Genter, Robert H. (See Barnes, Herbert, assignor.)
- Gentile, John B., assignor, by mesne assignments, of two-fifths to C. G. Davidson and two-fifths to J. Barile, Manchester, N. H. Shoe. No. 1,314,074; Aug. 26; v. 265; p. 504.
- Gentile, Nicola, Civitavecchia, Italy. Apparatus for recovering oil from ships' wells and for separating it from water and extraneous matters. No. 1,317,971; Oct. 7; v. 267; p. 59.
- Gentry, Demaus C., Vincennes, Ind. Portable shot-firing device. No. 1,304,306; May 20; v. 262; p. 406.
- Gentry, Evert L., Idabel, Okla. Armor for shingles. No. 1,309,065; July 8; v. 264; p. 224.
- Gentzel, Perry H., Newton, Mass. Steam-generating apparatus. No. 1,306,888; June 17; v. 263; p. 374.
- Gentzler, Edwin, York, Pa. Sifter. No. 1,298,926; Apr. 1; v. 261; p. 71.
- Geo. J. Meyer Manufacturing Co. (See Meyer, George J., assignor.)
- Geo. P. Ide & Company. (See Becker, Donald B., assignor.)
- Geo. S. Johnston Company. (See Allen and George, assignors.)
- Geo. S. Johnston Company. (See Johnston, George S., assignor.)
- Geoghegan, Edward A., San Francisco, Calif. Superheater. No. 1,309,025; July 8; v. 264; p. 216.
- George, Albert F., Cassville, Mo., assignor to T. F. McCann, Salina, Kans. Windmill. No. 1,326,335; Dec. 30; v. 269; p. 743.
- George C. Clark Metal Last Co. (See Clark, George C., assignor.)
- George, Charles L., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Internal pipe-wrench. No. 1,313,479; Aug. 19; v. 265; p. 357.
- George Cutter Company. (See Ashinger, Herman H., assignor.)
- George Cutter Company. (See McWilliams, Arthur C., assignor.)
- George, Edgar C., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Flanged article. No. 1,309,799; July 15; v. 264; p. 396.
- George, Edgar J. (See Allen and George.)
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging. No. 1,301,680; Apr. 22; v. 261; p. 752.
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging for railway-cars. No. 1,301,681; Apr. 22; v. 261; p. 752.
- George Hattersley and Sons Limited. (See Perks, Thomas, assignor.)
- George, James H., New York, N. Y. Metallic barrel. No. 1,324,445; Dec. 9; v. 269; p. 276.
- George, James H., New York, N. Y. Metallic barrel. No. 1,324,446; Dec. 9; v. 269; p. 276.
- George, Jerome K., assignor to Morgan Construction Company, Worcester, Mass. Metal-heating furnace. No. 1,311,962; Aug. 5; v. 265; p. 21.
- George, Mary D., Washington, D. C. Game. No. 1,294,256; Feb. 11; v. 259; p. 330.
- George, Ralph D., Kansas City, Mo., assignor of one-half to J. P. Bennett, Madison, Wis. Canvas tent and cot. No. 1,322,164; Nov. 18; v. 268; p. 454.
- George S. Harwood & Son. (See Howe, Joseph B., assignor.)
- George W. Dover, Inc. (See Dover, George W., assignor.)
- George W. Dover, Inc. (See Dover and Hughes, assignors.)
- George W. Dover, Incorporated. (See Barsantee, George H., assignor.)
- George W. Prentiss & Company. (See Prentiss, William A., assignor.)
- Georgelis, George H., Fort Screven, Ga. Submarine-destroyer. No. 1,296,646; Mar. 11; v. 260; p. 222.
- Gepp, Herbert W., D. Avery, Melbourne, Victoria, R. H. Stevens, W. C. Snow, and W. M. Whitecotton, Risdon, Hobart, Tasmania, assignors to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Treatment of zinc-bearing ores for the recovery of zinc by electrodeposition. No. 1,322,104; Nov. 18; v. 268; p. 442.
- Geppner, William A., Irvington, N. J. Signal device for automobiles and the like. No. 1,325,939; Dec. 23; v. 269; p. 633.
- Geraerdt, William, New York, N. Y. Sheet-lathing. No. 1,311,441; July 29; v. 264; p. 763.
- Geraghty, James H. (See Merkle and Geraghty.)
- Geraghty, John P., Jersey City, N. J. Submarine detector or telltale. No. 1,292,755; Jan. 28; v. 258; p. 733.
- Gerard, H. H., et al. (See Kavanagh, Enoch, assignor.)
- Gerard, Joseph R., Parsons, Kans. Locomotive draft-regulator. No. 1,309,516; July 8; v. 264; p. 306.
- Gerard, William B. (See Jackson, George C., assignor.)
- Gerber, Morris, J., New York, N. Y. Manufacturing hat-shapes. No. 1,290,539; Jan. 7; v. 258; p. 127.
- Gerber, Viktor, Baden, Switzerland. Device for carrying out chemical processes by electrolysis. No. 1,301,832; Apr. 29; v. 261; p. 812.
- Gerberg, Morris, New York, N. Y. Articulated eyes for automotons. No. 1,290,967; Jan. 14; v. 258; p. 255.
- Gerdeman, Frank H., Findlay, Ohio, assignor, by mesne assignments, to Beeman Tractor Company, Minneapolis, Minn. Clutch. No. 1,324,501; Dec. 9; v. 269; p. 287.
- Gerdien, Hans, Schmargendorf, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Apparatus for quantitatively analyzing gaseous mixtures. No. 1,304,037; May 20; v. 262; p. 356.
- Gerke-Allen Carton Company. (See Allen, William R., assignor.)
- Gerhard, Herman F., University, Mo. Covered pulley. No. 1,309,284; July 8; v. 264; p. 264.
- Gerhardt, Alvin J., Flint, Mich. Fire-kindler. No. 1,308,009; June 24; v. 263; p. 613.
- Gerhardt, Leonard, Arlington, assignor to Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top container. No. 1,314,957; Sept. 2; v. 266; p. 88.
- Gerhart, Horace L., Doylestown, Pa. Package-tie. No. 1,311,064; July 22; v. 264; p. 660.
- Gerken, Frederick, New York, N. Y. Spark-plug. No. 1,312,317; Aug. 5; v. 265; p. 86.
- Gerlach, Adam W., Indianapolis, Ind. Smoke-hood. No. 1,321,027; Nov. 4; v. 268; p. 126.
- Gerlach, George W., Cumberland, Iowa. Circuit-breaker. No. 1,297,343; Mar. 18; v. 260; p. 407.
- Gerlach, George W., Cumberland, Iowa. Locomotive equipment for block-signal systems. No. 1,303,192; May 6; v. 262; p. 136.
- Gerlach, George W., Cumberland, Iowa. Track-obstacle and controlling mechanism therefor. No. 1,311,065; July 22; v. 264; p. 660.
- Gerlach, Oscar, Danville, Ill. Economizing metallic reductions. No. 1,313,287; Aug. 19; v. 265; p. 322.
- Gerlach, Oscar, Danville, and C. B. Lihme, Chicago, Ill., assignors to The Industrial Research Laboratories. Process and machine for reclaiming retort-waste. No. 1,312,173; Aug. 5; v. 265; p. 60.
- Gerlach, Stephan G., Stratford, Conn. Combination-lock. No. 1,322,427; Nov. 18; v. 268; p. 505.
- Gerlat, Arthur M., Sheboygan, Wis. Collar and tie protector. No. 1,319,062; Oct. 21; v. 267; p. 354.
- Gerli, Paul, and O. A. Ross, New York, N. Y. Powder-container or the like. No. 1,316,786; Sept. 23; v. 266; p. 498.
- Gerli, Paul, and O. A. Ross, New York, N. Y. System of carburization for hydrocarbon-motors. No. 1,323,264; Dec. 2; v. 269; p. 8.
- Germain, Leon C., Conway, Mass. Transmission. No. 1,303,789; May 13; v. 262; p. 272.
- Germanson, Julius M., Milwaukee, Wis. Molding-flask. No. 1,326,336; Dec. 30; v. 269; p. 744.
- Germeshausen, Henry B., Woodland, Cal. Scraper. No. 1,296,789; Mar. 11; v. 260; p. 255.
- Germoprez, John A., assignor to Production Tool Co. of America, Detroit, Mich. Counterbore. No. 1,294,257; Feb. 11; v. 259; p. 330.
- Gernandt Motor Corporation. (See Gernandt, Waldo G., assignor.)
- Gernandt, Waldo G., assignor to Gernandt Motor Corporation, Chicago, Ill. Internal-combustion engine. No. 1,305,533; June 3; v. 263; p. 57.
- Gernandt, Waldo G., assignor, by mesne assignments, to Gernandt Motor Corporation, Chicago, Ill. Internal-combustion engine. No. 1,305,894; June 3; v. 263; p. 125.
- Gerould, Truman W., Athens, Pa. Book-holder. No. 1,326,720; Dec. 30; v. 269; p. 816.
- Gerrard, Frederick J., Monroe, Nebr. Vending-machine. No. 1,305,795; June 3; v. 263; p. 106.
- Gerrard, Frederick J., assignor of one-half to C. O. Hart, Monroe, Nebr. Device for keeping lids cool. No. 1,299,321; Apr. 1; v. 261; p. 160.
- Gerrard, Frederick J., assignor of one-half to C. O. Hart, Monroe, Nebr. Folding chicken-crate. No. 1,299,322; Apr. 1; v. 261; p. 161.
- Gerrish, Seldon W., Greenville Junction, Me. Fruit-picker. No. 1,295,888; Mar. 4; v. 260; p. 16.
- Gerritsen, Jacob, Kankakee, assignor to Paramount Hosiery Form Drying Co., Chicago, Ill. Hosiery drying and shaping structure. No. 1,320,753; Nov. 4; v. 268; p. 74.
- Gerson, Nikolaus. (See Ledig and Gerson.)
- Gerson, Nikolaus, assignor to A. Mecky Company, Philadelphia, Pa. Attachment for water or fluid heaters with faucets. No. 1,314,324; Aug. 26; v. 265; p. 552.



- Gerstenmaier, Carl and W., St. Paul, Minn. Back-rest. No. 1,309,725; July 15; v. 264; p. 383.
- Gerstenmaier, Walter. (See Gerstenmaier, Carl and W.)
- Gerstung, Otto A. (See Ransom and Gerstung.)
- Gervais, Stanislas, assignor of one-half to Hawthorne Manufacturing Company, Inc., Bridgeport, Conn. Car-bureter. No. 1,295,090; Feb. 18; v. 259; p. 558.
- Gervais, Wainwright B., assignor to Variety Manufacturing Company, Chicago, Ill. Automatic fire-door. No. 1,290,169; Jan. 7; v. 258; p. 37.
- Gerwen, Julius A., assignor to Moline Mill Manufacturing Company, Moline, Ill. Elevator-cup. No. 1,295,154; Feb. 25; v. 259; p. 596.
- Gerwen, Julius A., assignor to Moline Mill Manufacturing Company, Moline, Ill. Idler-Pulley Structure. No. 1,300,833; Apr. 15; v. 261; p. 546.
- Gerwer, Joseph A., Stapleton, N. Y. Signal for vehicles. No. 1,297,829; Mar. 18; v. 260; p. 510.
- Gerwien, William, San Francisco, Calif. Resilient tire. No. 1,315,626; Sept. 9; v. 266; p. 219.
- Gery, John, Paterson, N. J. Burial-overbox. No. 1,310,987; July 22; v. 264; p. 645.
- Gesellschaft für Drahtlose Telephonie m. b. H. (See Von Arco and Meissner, assignors.)
- Gesellschaft für Elektro-Osmose m. b. H. (See Schwerin, Botho, assignor.)
- Gessmann, Edmund, Union Hill, N. J. Two-colored fountain-pen. No. 1,298,326; Mar. 25; v. 260; p. 641.
- Gessner, Paul W. (See Meyer and Gessner.)
- Geszty, Alexander, New York, N. Y. Cigar-holder. No. 1,295,977; Mar. 4; v. 260; p. 36.
- Gethin, Partick, Cambridge, Mass. Truss. No. 1,323,231; Nov. 25; v. 268; p. 703.
- Gethman, William, Oklahoma, Okla. Sealing device. No. 1,322,559; Nov. 25; v. 268; p. 581.
- Getman, David D., White Butte, S. D. Low-air-pressure signal. No. 1,325,012; Dec. 16; v. 269; p. 443.
- Gettell, Travilla C., Philadelphia, Pa. Automobile-theft-detector means. No. 1,305,352; June 3; v. 263; p. 23.
- Gettemy, William H., Jr., Rockford, Iowa. Aeroplane-controlling mechanism. No. 1,306,002; June 10; v. 263; p. 176.
- Getz, Benjamin E., assignor to Getz Power Washer Co., Morton, Ill. Washing-machine. No. 1,315,627; Sept. 9; v. 266; p. 219.
- Getz, John, Morton, and M. Shives, Yates City, Ill.; said Shives assignor to said Getz. Method and apparatus for preparing corn for storage. No. 1,307,046; June 17; v. 263; p. 404.
- Getz, P. A., et al. (See Hogg, Frederic W., assignor.)
- Getz Power Washer Co. (See Getz, Benjamin E., assignor.)
- Geuder, Paeschke & Frey Co. (See Kempter, Philip, assignor.)
- Geveke, Hendrik L., Hilversum, assignor to Naamlooze Vennootschap Geveke & Co.'s Technisch Bureau, Amsterdam, Netherlands. Trenching-machine. No. 1,301,833; Apr. 29; v. 261; p. 813.
- Gey, Frank J., Jr., Pittsburgh, Pa. Tie-mold. No. 1,315,112; Sept. 2; v. 266; p. 117.
- Gherardi, Bancroft, assignor to American Telephone and Telegraph Company, Bayhead, N. J. Method and means for avoiding interference. No. 1,311,808; July 29; v. 264; p. 831.
- Giacoletto, Savino, Hancock, Mich. Steering device. No. 1,303,289; May 13; v. 262; p. 182.
- Giacoletto, Savino, Hancock, Mich. Pedal-operating device. No. 1,311,223; July 29; v. 264; p. 722.
- Giardino, Joseph, administrator. (See Jiardina, Ralph.)
- Giardino, Liborio G., Campello, Mass. Picture-hanger. No. 1,312,903; Aug. 12; v. 265; p. 230.
- Gibb Instrument Company, The. (See Brueckner, Julius R., assignor.)
- Gibbes, Robert W. (See Dutes, Albert R., assignor.)
- Gibbins, Henry, executor. (See Gibbins, William G.)
- Gibbins, William G., deceased, St. Louis, Mo.; H. Gibbins, executor. Washing-machine. No. 1,304,470; May 20; v. 262; p. 439.
- Gibbins, William G., deceased, St. Louis, Mo.; H. Gibbins, executor. Fleshing-machine. No. 1,307,732; June 24; v. 263; p. 561.
- Gibbons, Michael J., Shenandoah, Pa. Miner's cap. No. 1,305,895; June 3; v. 263; p. 126.
- Gibbons, William J., Philadelphia, Pa. Upsetting-die. No. 1,297,141; Mar. 11; v. 260; p. 334.
- Gibbons, William J., Philadelphia, Pa. Bushing-blank and making bushings. No. 1,297,142; Mar. 11; v. 260; p. 334.
- Gibbons, Willis A., Flushing, N. Y., assignor to American Rubber Company. Aeroplane structural element. No. 1,290,832; Jan. 7; v. 258; p. 197.
- Gibbons, Willis A., Flushing, N. Y., assignor to New York Belting and Packing Company. Vulcanizing rubber and products obtained thereby. No. 1,291,828; Jan. 21; v. 258; p. 486.
- Gibbons, Willis A., Flushing, N. Y., assignor to Rubber Regenerating Company. Pneumatic cushion. No. 1,321,301; Nov. 11; v. 268; p. 242.
- Gibbs, Benedict T., Jr., assignor to Morden Frog & Crossing Works, Chicago, Ill. Reinforcement for frogs and crossings. No. 1,313,480; Aug. 19; v. 265; p. 357.
- Gibbs, Clarence A., Williamsport, Pa. Incinerator. No. 1,305,710; June 3; v. 263; p. 91.
- Gibbs, Edward F. G., Washington, D. C. Tool-post-boring-bar holder. No. 1,308,281; July 1; v. 264; p. 50.
- Gibbs, Edward F. G., Washington, D. C. Reversible boring-bar holder. No. 1,308,282; July 1; v. 264; p. 50.
- Gibbs, Elmer W., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Top. No. 1,317,699; Oct. 7; v. 267; p. 8.
- Gibbs, Frederick H., Brooklyn, N. Y. Fuel-feed system for internal-combustion engines. No. 1,303,290; May 13; v. 262; p. 182.
- Gibbs, Harry D. (See Ambler and Gibbs.)
- Gibbs, Harry D. (See Ambler, Lubs, and Gibbs.)
- Gibbs, Harry D. (See Conover and Gibbs.)
- Gibbs, Harry D. (See Lewis and Gibbs.)
- Gibbs-Inman Company. (See Gibbs, James D., assignor.)
- Gibbs, James D., assignor to Gibbs-Inman Company, Louisville, Ky. Ticket-cutter. No. 1,326,152; Dec. 23; v. 269; p. 673.
- Gibbs, John H. (See Bentley and Gibbs.)
- Gibbs Manufacturing Company, The. (See Gibbs, Elmer W., assignor.)
- Gibbs, Robert C., East Providence, and J. Atkinson, Cranston, R. I., assignors to Clark and Coombs Company. Making ornamental bodies of ear-rings. No. 1,324,807; Dec. 16; v. 269; p. 407.
- Gibbs, Robert C., East Providence, and J. Atkinson, Cranston, R. I., assignors to Clark and Coombs Company. Ear-ring. No. 1,324,808; Dec. 16; v. 269; p. 407.
- Gibbs, Thomas E., Moose Jaw, Saskatchewan, Canada. Horseshoe. No. 1,316,571; Sept. 23; v. 266; p. 458.
- Giberson, William T., Toms River, N. J. Reclining-chair. No. 1,294,786; Feb. 18; v. 259; p. 489.
- Gibford, Edward B., Adrian, Mich. Razor. No. 1,309,726; July 15; v. 264; p. 383.
- Gibney, Charles T., Motley, Minn. Automatic ringing-machine. No. 1,318,491; Oct. 14; v. 267; p. 220.
- Gibson, Adelbert R., Los Angeles, Cal., assignor of one-half to C. T. Scudder, Arlington, Md. Medicament container and appliance. No. 1,293,401; Feb. 4; v. 259; p. 99.
- Gibson, Angus H., assignor to The Western States Machine Company, Salt Lake City, Utah. Centrifugal machine. No. 1,319,150; Oct. 21; v. 267; p. 372.
- Gibson, Arthur H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Connecting-rod construction. No. 1,297,830; Mar. 18; v. 260; p. 510.
- Gibson, Arthur H. C., assignor, by mesne assignments, to The Gibson Mon-Auto Company, New York, N. Y. Power-transmission mechanism. No. 1,293,641; Feb. 4; v. 259; p. 155.
- Gibson, Arthur H. C., assignor, by mesne assignments, to Gibson Mon-Auto Company, New York, N. Y. Automobile. No. 1,293,642; Feb. 4; v. 259; p. 155.
- Gibson, Arthur H. C., assignor, by mesne assignments, to Gibson Mon-Auto Company, New York, N. Y. Motor-vehicle. No. 1,297,676; Mar. 18; v. 260; p. 477.
- Gibson, Claude W., assignor of one-fourth to A. B. Eaton, Boise, Idaho. Stabilizing mechanism. No. 1,309,888; July 15; v. 264; p. 413.
- Gibson, Edward T., New York, N. Y. Copy-holder. No. 1,308,010; June 24; v. 263; p. 613.
- Gibson, Edward T., Brooklyn, N. Y. Line-guide for copy-holders. No. 1,306,960; June 17; v. 263; p. 388.
- Gibson, Emmett E., Gabbett, Ala. Mail-crane. No. 1,301,682; Apr. 22; v. 261; p. 753.
- Gibson, Francis W., assignor to H. D. Beach Company, Boston, Mass. Display-rack. No. 1,294,258; Feb. 11; v. 259; p. 330.
- Gibson, Francis W., West Roxbury, assignor to H. D. Beach Company, Boston, Mass. Display rack or stand. No. 1,293,752; Feb. 11; v. 259; p. 211.
- Gibson, Francis W., West Roxbury, Mass., assignor to H. D. Beach Company, Coshocton, Ohio. Display-rack. No. 1,314,796; Sept. 2; v. 266; p. 60.
- Gibson, George H., Montclair, N. J. Flow integrating and recording instrument. No. 1,290,170; Jan. 7; v. 258; p. 38.
- Gibson, Isaac N., Decatur, Miss. Thresher. No. 1,325,150; Dec. 16; v. 269; p. 470.
- Gibson, James, Chicago, Ill., assignor of one-half to L. Schiller, St. Louis, Mo. Furniture-caster. No. 1,305,276; June 3; v. 263; p. 9.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Fuel-heating system. No. 1,300,600; Apr. 15; v. 261; p. 496.
- Gibson, Jefferson C., Chicago, Ill. Hydrocarbon-burner. No. 1,318,549; Oct. 14; v. 267; p. 231.
- Gibson, Joseph R., Chicago, Ill. Fruit-eating shield. No. 1,324,659; Dec. 9; v. 269; p. 317.
- Gibson, Katherine E. (See Hardy and Gibson.)
- Gibson, Lewis L., Macon, Ga. Automobile-lock. No. 1,296,382; Mar. 4; v. 260; p. 128.
- Gibson Mon-Auto Company, The. (See Gibson, Arthur H. C., assignor.)
- Gibson, Percy C., Waukegan, Ill. Stop-cock. No. 1,293,753; Feb. 11; v. 259; p. 211.
- Gibson, Samuel, Woodrow, N. C. Wire-fence clamp. No. 1,321,818; Nov. 18; v. 268; p. 390.
- Gibson, Tillman N., Webster county, and A. O. Friday, Maben, Miss. Wheel-tightening device. No. 1,309,939; July 15; v. 264; p. 423.



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- Gibson, William A., Denver, Colo. Air-controlling attachment for carburetors. No. 1,323,044; Nov. 25; v. 268; p. 671.
- Gibson, William E. F., Seattle, Wash. Automobile-signal. No. 1,292,304; Jan. 21; v. 258; p. 604.
- Giddens, Kere W., Salem, Oreg. Clasp. No. 1,309,323; July 8; v. 264; p. 271.
- Giddens, Perry G., assignor to Curtis M. Bass, Columbus, Ga. Driving-rein support. No. 1,309,195; July 8; v. 264; p. 247.
- Giddings, Albert F., Chicago, Ill. Producing illustrations and reproducing same. No. 1,295,978; Mar. 4; v. 260; p. 36.
- Giddings, Fred M., Galesburg, Ill. Clothesline reel and tightener. No. 1,324,112; Dec. 9; v. 269; p. 211.
- Giddings, George H., Iliou, N. Y. Double-barrel gun. No. 1,302,909; May 6; v. 262; p. 82.
- Giddings, George H., Iliou, N. Y. Single-trigger device. No. 1,302,910; May 6; v. 262; p. 82.
- Giddings, George H., Iliou, N. Y. Ejecting device for double-barrel guns. No. 1,309,026; July 8; v. 264; p. 217.
- Giebelser-Wanke, Anna. (See Giebelser-Wanke, Christopher A. and A.)
- Giebelser-Wanke, Christoph A., New York, N. Y. Doll's limb and joint therefor. No. 1,321,028; Nov. 4; v. 268; p. 127.
- Giebelser-Wanke, Christopher A., New York, N. Y. Artificial limb. No. 1,319,471; Oct. 21; v. 267; p. 433.
- Giebelser-Wanke, Christopher A. and A., New York, N. Y. Eyes for dolls. No. 1,319,472; Oct. 21; v. 267; p. 433.
- Giebelser-Wanke, Christoph A., New York, N. Y. Phonetic doll. No. 1,325,013; Dec. 16; v. 269; p. 443.
- Giele, Walter S. (See Gamble and Giele.)
- Giertsen, Sigurd, Odda, Norway. Converting cyanamid into urea and ammonium compounds. No. 1,326,045; Dec. 23; v. 269; p. 653.
- Gieske, Joseph H., assignor to P. A. F. Smith, St. Paul, Minn. Superpress numbering-machine. No. 1,324,248; Dec. 9; v. 269; p. 237.
- Giesler, Jean V. (See Fulton, Giesler, and Patton.)
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Cooling system for internal-combustion engines. No. 1,311,809; July 29; v. 264; p. 831.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Fuel-heating system. No. 1,318,068; Oct. 7; v. 267; p. 78.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Cooling system for internal-combustion engines. No. 1,318,069; Oct. 7; v. 267; p. 78.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Cooling system for internal-combustion engines. No. 1,320,682; Nov. 4; v. 268; p. 60.
- Glessow, Paul H., St. Louis, Mo. Swinging baby-crib. No. 1,315,549; Sept. 9; v. 266; p. 206.
- Gifford, Bert L. and E. B., assignors to Gifford Manufacturing Company, Incorporated, Barker, N. Y. Fruit-grader. No. 1,310,394; July 15; v. 264; p. 504.
- Gifford, Edgar B. (See Gifford, Bert L. and E. B.)
- Gifford, Edward L., Alameda, Calif. Closing device. No. 1,304,471; May 20; v. 262; p. 439.
- Gifford, Frederick, Jamestown, N. Y. Graining process. No. 1,317,700; Oct. 7; v. 267; p. 8.
- Gifford, Harry E., Medford, Mass. Garment-protector. No. 1,295,022; Feb. 18; v. 259; p. 542.
- Gifford, Malcolm. (See Phillips and Gifford.)
- Gifford Manufacturing Company. (See Gifford, Bert L. and E. B., assignors.)
- Gifford, Percival F., New York, N. Y. Transmission-gearing for automobiles, &c. No. 1,299,700; Apr. 8; v. 261; p. 275.
- Gifford, Robert L., Pasadena, Calif., assignor to Illinois Engineering Company, Chicago, Ill. Heating system. No. 1,325,632; Dec. 23; v. 269; p. 576.
- Gifford, Thomas L. (See Stockstill, Herman A., assignor.)
- Gifford-Wood Company. (See Phillips and Gifford, assignors.)
- Gihon, Edward J., et al., trustees. (See Gray, Winfield H., assignor.)
- Gil, Francisco M., Mexico, Mexico. Phonographic clock. No. 1,305,596; June 3; v. 263; p. 71.
- Gilardini, Felice, Turin, Italy. Belt. No. 1,309,066; July 8; v. 264; p. 224.
- Gilardini, Felice, Turin, Italy. Tanning leather for belts. No. 1,321,730; Nov. 11; v. 268; p. 323.
- Gilbert, Albert P., Durham, N. C. Tobacco-hanging machine. No. 1,306,374; June 10; v. 263; p. 247.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy building construction. No. 1,302,652; May 6; v. 262; p. 32.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric switch. No. 1,307,094; June 17; v. 263; p. 412.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy gun. No. 1,310,613; July 22; v. 264; p. 576.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Playhouse. No. 1,315,628; Sept. 9; v. 266; p. 220.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy electric motor. No. 1,323,045; Nov. 25; v. 268; p. 672.
- Gilbert, Arthur, Terre Haute, Ind., assignor of one-third to H. Jemune and one-third to H. E. Boots, Greenup, Ill. Combined cigarette and match box. No. 1,297,931; Mar. 18; v. 260; p. 510.
- Gilbert, Austin, and C. E. Vander Hoof, assignors to The Fischer Can Company, Hamilton, Ohio. Sealing composition for cans. No. 1,323,752; Dec. 2; v. 269; p. 99.
- Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
- Gilbert & Barker Manufacturing Company. (See Kincaid, Charles W., assignor.)
- Gilbert, Battie B., Huntington, W. Va., assignor of one-half to W. J. Fields, Olive Hill, Ky. Box cooking kit. No. 1,302,911; May 6; v. 262; p. 83.
- Gilbert, Charles F., et al. (See Clyne, Robert G., assignor.)
- Gilbert, Clarence J., assignor to The Standard Optical Company, Geneva, N. Y. Lens-holder for lens centering, marking, and testing machines. No. 1,320,542; Nov. 4; v. 268; p. 35.
- Gilbert, Fred F., Draper, S. D. Staple. No. 1,310,908; July 22; v. 264; p. 630.
- Gilbert, George A. (See Hall, John L., assignor.)
- Gilbert, Harry A. (See Mitchell, George A., assignor.)
- Gilbert, John C., Grafton, Mass. Toy vehicle. No. 1,318,374; Oct. 14; v. 267; p. 197.
- Gilbert, Joseph B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Abrading device. No. 1,298,689; Apr. 1; v. 261; p. 15.
- Gilbert, Joseph M. (See Carlisle, Fred B., assignor.)
- Gilbert, Joseph M., Minneapolis, Minn. Electromagnetism. No. 1,323,747; Dec. 2; v. 269; p. 98.
- Gilbert, Lloyd D., P. S. Taylor, J. G. Dean, and L. E. Elder, Victorville, Calif. Apparatus for collecting and isolating soluble salts from flue-gases. No. 1,324,737; Dec. 9; v. 269; p. 331.
- Gilbert, Samuel S., South Weymouth, Mass. Toy house. No. 1,302,785; May 6; v. 262; p. 57.
- Gilbert, Walter R., London, England. Apparatus for reproducing the motions of the upper part of vessels in motion. No. 1,313,685; Aug. 19; v. 265; p. 396.
- Gilbertson, Charles, and K. W. Tanner, Camrose, Alberta, Canada. Automobile pull-out. No. 1,293,754; Feb. 11; v. 259; p. 212.
- Gilbertson, Gustav A., Benson, Minn. Engine-cylinder support. No. 1,294,787; Feb. 18; v. 259; p. 489.
- Gilbertson, Henry S., East Orange, N. J. Envelop. No. 1,319,525; Oct. 21; v. 267; p. 440.
- Gilbough, Benjamin G., Los Angeles, Cal. Pressure-gage for tires. No. 1,295,889; Mar. 4; v. 260; p. 16.
- Gilbough, Benjamin G., Los Angeles, Calif. Tire-pressure indicator. No. 1,309,517; July 8; v. 264; p. 307.
- Gilbough, Benjamin G., Los Angeles, Calif. Pressure-gage for tires. No. 1,322,782; Nov. 25; v. 268; p. 622.
- Gilchrist, Andrew L. K. (See Leadbetter, Gilchrist, and Tate.)
- Gilchrist, Clarence F. (See Kester and Gilchrist.)
- Gilchrist Company, The. (See Gilchrist, Raymond B., assignor.)
- Gilchrist, Haslup & Peacock. (See Haslup, Edward W., assignor.)
- Gilchrist, John F., Chicago, Ill. Dining-table connector. No. 1,309,406; July 8; v. 264; p. 286.
- Gilchrist, Peter S. (See Hechenbleikner and Gilchrist.)
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Chipper and making the same. No. 1,305,711; June 3; v. 263; p. 91.
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Straw-dispenser. No. 1,325,319; Dec. 16; v. 269; p. 502.
- Gilchrist, Robert. (See Haslup, Edward W., assignor.)
- Gilchrist, Robert. (See Peacock, Benjamin A., assignor.)
- Gilcrease, Leonard L., Reno, Nev. Support. No. 1,320,613; Nov. 4; v. 268; p. 48.
- Gildersleeve, Donald M., et al. (See Lamberson, George E., assignor.)
- Gildner, Henry H., Maplewood, N. J., assignor to F. R. Blair & Co., Inc., New York, N. Y. Flexible coupling. No. 1,323,046; Nov. 25; v. 268; p. 672.
- Giles, David J. and J. E. McKeesport, Pa. Extracting tungsten and similar metals from their ores. No. 1,293,402; Feb. 4; v. 259; p. 94.
- Giles, David J. and J. E. McKeesport, Pa. Extracting tungsten and similar metals from their ores. No. 1,293,403; Feb. 4; v. 259; p. 99.
- Giles, David J. and J. E. McKeesport, Pa. Extracting tungsten and similar metals from their ores. No. 1,293,404; Feb. 4; v. 259; p. 100.
- Giles, James E. (See Giles, David J. and J. E.)
- Giles, Julian A., assignor to The Acme Tool and Machine Co., Derby, Conn. Tool-holder. No. 1,324,809; Dec. 16; v. 269; p. 407.
- Giles, Robert, et al. (See Muir, David E., assignor.)
- Giletti, Quinto, New York, N. Y. Sanitary sugar-bowl. No. 1,326,131; Dec. 23; v. 269; p. 669.
- Giletti, Secondo, San Francisco, Cal. Concrete-ship mold. No. 1,297,143; Mar. 11; v. 260; p. 335.
- Giletti, Secondo, San Francisco, Calif. Concrete ship. No. 1,313,592; Aug. 19; v. 265; p. 379.



- Gillallan, Frederic C., Ebenezer, N. Y. Automatic pressure-regulator. No. 1,311,442; July 29; v. 264; p. 763.
- Gillallan, William A., Chillicothe, Ill. Tractor-plow. No. 1,319,063; Oct. 21; v. 267; p. 354.
- Gilkey, Sallie S., Marion, N. C. Rake attachment. No. 1,308,706; July 1; v. 264; p. 128.
- Gill, Charles H., assignor of one-fourth to H. W. Heegstra and one-fourth to N. L. Von Schill, Chicago, Ill. Silent-alarm watch. No. 1,322,500; Nov. 18; v. 268; p. 519.
- Gill-Cook Valve Co. (See Gill, William A., assignor.)
- Gill, Harry R., Ashland, Ohio. Valve for inflating bodies. No. 1,315,955; Sept. 16; v. 266; p. 294.
- Gill, Isaac, trustee. (See Nisbet, James, assignor.)
- Gill, John H., J. D. Rea, and L. Sanderson, Dunedin, New Zealand. Motor-tire cover. No. 1,300,601; Apr. 15; v. 261; p. 497.
- Gill, Philip L., Englewood, N. J., assignor to C. & H. Casting Co., New York, N. Y. Centrifugal casting-machine. No. 1,324,660; Dec. 9; v. 269; p. 317.
- Gill, Robert L., Platteville, Wis. Milk aerator, cooler, and protecting device. No. 1,320,543; Nov. 4; v. 268; p. 35.
- Gill, Rudolph P., Orange, Va. Soda-fountain. No. 1,321,731; Nov. 11; v. 268; p. 323.
- Gill, Samuel H. (See Brown, George S., assignor.)
- Gill, William A., assignor to Gill-Cook Valve Co., Portland, Oreg. Rotary valve. No. 1,292,597; Jan. 28; v. 258; p. 697.
- Gillam, Manly M., Flushing, N. Y. Device for burning vaporous or gaseous fuel. No. 1,311,443; July 29; v. 264; p. 763.
- Gillam, Manly M., Flushing, N. Y. Glove holding, stretching, and shaping device. No. 1,319,579; Oct. 21; v. 267; p. 453.
- Gillar, Henry, and S. W. Crouse, South River, N. J. Cutting-off machine for taffy or the like. No. 1,296,647; Mar. 11; v. 260; p. 222.
- Gilleland, James R., Baltimore, Md. Hoot-trimming machine. No. 1,304,761; May 27; v. 262; p. 532.
- Gillen, Daniel C., San Francisco, Calif. Automobile traffic-signal. No. 1,319,276; Oct. 21; v. 267; p. 395.
- Gilles, Pierre P., Springfield, Mass. Fuel-feeding device for carbureters. No. 1,317,919; Oct. 7; v. 267; p. 49.
- Gillespie, Alexander E., London, England. Sheet metal. No. 1,306,690; June 17; v. 263; p. 338.
- Gillespie, Alexander P., Wilkensburg, Pa. Staff holder and attaching device. No. 1,295,072; Mar. 4; v. 260; p. 58.
- Gillespie, Alexander W., Chicago Heights, assignor to Calumet Steel Company, Chicago, Ill. Former or shoe for tube-forming machines. No. 1,319,862; Oct. 28; v. 268; p. 530.
- Gille, Charles M., Denver, Colo. Power unit for farm-implements. No. 1,305,088; May 27; v. 262; p. 593.
- Gilespeie, Dean M., Denver, Colo. Truck-body. No. 1,320,131; Oct. 28; v. 267; p. 579.
- Gillespie, Edward L., Seattle, Wash. Counterbalancing device for wall-cabinet boards. No. 1,300,950; Apr. 15; v. 261; p. 570.
- Gillespie, William P., San Francisco, Calif. Shoe-sole. No. 1,305,459; June 3; v. 263; p. 44.
- Gilliet, Charles, Toronto, Ontario, Canada. Fuse control for multiphase-circuits. No. 1,309,027; July 8; v. 264; p. 217.
- Gillette, George R., Boston, assignor to F. M. Webster, Springfield, Mass. Double-indexed book. No. 1,290,171; Jan. 7; v. 258; p. 38.
- Gillette, Hallock N., Wilkensburg, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Valve. No. 1,315,828; Sept. 9; v. 266; p. 256.
- Gillette, Hugh N. (See Galentine and Gillette.)
- Gillette, John C., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Liquid cooled conveyer apparatus. No. 1,303,470; May 13; v. 262; p. 214.
- Gillette, Leroy D., Woodhull, Ill. Multiple-reel attachment for moving picture machines. No. 1,291,829; Jan. 21; v. 258; p. 486.
- Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
- Gillette Safety Razor Company. (See Parker, Riley H., assignor.)
- Gillette, William L., Flagtown, N. J. Funnel. No. 1,290,968; Jan. 14; v. 258; p. 255.
- Gillig, Chester and L., San Francisco, Cal. Automobile side curtain. No. 1,294,442; Feb. 18; v. 259; p. 410.
- Gillig, Leo. (See Gillig, Chester and L.)
- Gilligan, Bernhard C., Toledo, Ohio. Composition of matter for molds and making same. No. 1,319,151; Oct. 21; v. 267; p. 372.
- Gilliland, John B., Bellevue, Pa. Ash-remover for gas-producers. No. 1,319,328; Oct. 21; v. 267; p. 405.
- Gilliland, Orra L., Minneapolis, Minn. Loader. No. 1,304,307; May 20; v. 262; p. 406.
- Gillinder, Edgar A., Philadelphia, Pa. Jar for preserves, &c. No. 1,296,283; Mar. 4; v. 260; p. 106.
- Gillinger, Jeremiah J., Quitman, Mo. Combined support and water-deflector for water-wheels. No. 1,292,464; Jan. 28; v. 258; p. 661.
- Gillis & Geoghegan. (See Murdoch, Franklin P., assignor.)
- Gillis, Lyle N., Washington, D. C., assignor to Fibre Company of North America. Process and apparatus for treating fiber-bearing plants. No. 1,307,250; June 17; v. 263; p. 440.
- Gillmor, Horatio G., Washington, D. C. Rail-stay. No. 1,292,756; Jan. 28; v. 258; p. 734.
- Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,297,460; Mar. 18; v. 260; p. 431.
- Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,306,889; June 17; v. 263; p. 374.
- Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,307,490; June 24; v. 263; p. 518.
- Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,317,364; Sept. 30; v. 266; p. 643.
- Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,321,620; Nov. 11; v. 268; p. 302.
- Giloon Bros. (See Giloon, John, assignor.)
- Giloon, John, assignor to Giloon Bros., New York, N. Y. Printing-roller. No. 1,318,862; Oct. 14; v. 267; p. 290.
- Gilson, John R., St. John, N. D. Draft-regulating damper. No. 1,316,439; Sept. 16; v. 266; p. 385.
- Gilman, Albert E. (See Gilman, John H. and A. E.)
- Gilman, Arthur S., Cleveland, Ohio. Multiple form-sheet. No. 1,301,834; Apr. 29; v. 261; p. 813.
- Gilman, Frank L., and J. R. Wilson, Pasadena, Calif. Automatic gas-burner. No. 1,312,441; Aug. 5; v. 265; p. 111.
- Gilman, Frank L., and W. M. Baum, Los Angeles, Calif.; said Gilman assignor to said Baum. Underwater-mining machine. No. 1,321,302; Nov. 11; v. 268; p. 242.
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass. Drilling holes. No. 1,290,172; Jan. 7; v. 258; p. 38.
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass. Fluid-motor. No. 1,293,080; Feb. 4; v. 259; p. 25.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Drill-tool. No. 1,293,081; Feb. 4; v. 259; p. 25.
- Gilman, George H., assignor to Claremont Machinery Company, Claremont, N. H. Drilling apparatus. No. 1,303,790; May 13; v. 262; p. 273.
- Gilman, George H., assignor of one-half to H. M. Robertson, St. Paul, Minn. Body-bolster for railway-cars. No. 1,312,726; Aug. 12; v. 265; p. 195.
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company, Boston, Mass. Drilling apparatus. No. 1,313,859; Aug. 19; v. 265; p. 429.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Drilling-engine. No. 1,326,399; Dec. 30; v. 269; p. 756.
- Gilman, Harry K., Washington, D. C. Guitar-pick. No. 1,296,284; Mar. 4; v. 260; p. 107.
- Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Elevator for corn, &c. No. 1,303,552; May 13; v. 262; p. 229.
- Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Elevator for corn, &c. (Reissue.) No. 14,705; Aug. 12; v. 265; p. 297.
- Gilman, John H. and A. E., assignors to King & Hamilton Company, Ottawa, Ill. Belt-tightener for conveyers. No. 1,299,701; Apr. 8; v. 261; p. 275.
- Gilman, John H. and A. E., assignors to King & Hamilton Company, Ottawa, Ill. Corn-sheller. No. 1,322,303; Nov. 18; v. 268; p. 480.
- Gilmartin, Michael W., New York, N. Y. Projectile. No. 1,315,113; Sept. 2; v. 266; p. 117.
- Gilmer, Ludwell H., Philadelphia, Pa. Belt and band. No. 1,326,656; Dec. 30; v. 269; p. 804.
- Gilmer, Hamet C., and P. L. Rookledge, Hollister, Calif. Electric warming device. No. 1,319,927; Oct. 28; v. 267; p. 543.
- Gilmore, Allen R., St. Louis, Mo. Mechanism for operating flush-valves. No. 1,302,912; May 6; v. 262; p. 83.
- Gilmore, Allen R., St. Louis, Mo. Ball-cock. No. 1,320,132; Oct. 28; v. 267; p. 579.
- Gilmore, Benjamin V. (See Thayer and Gilmore.)
- Gilmore, Calvin L., Dallas, Tex. Combined roost and nest. No. 1,314,075; Aug. 26; v. 265; p. 504.
- Gilmore, Earl L., assignor to Vitastide Company, San Francisco, Calif. Projector. No. 1,303,193; May 6; v. 262; p. 136.
- Gilmore, Edward J., New York, N. Y. Game apparatus. No. 1,311,810; July 29; v. 264; p. 831.
- Gilmore, George D. (See Griffith, Ernest, assignor.)
- Gilmore, George E., Cleveland, and H. M. Hanes, Wellington, assignors to The Security Tire & Rubber Company, Cleveland, Ohio. Resilient wheel-tire. No. 1,311,163; July 29; v. 264; p. 711.
- Gilmore, Hiram N., Miles City, Mont. Suction-draft snow-fence. No. 1,309,889; July 15; v. 264; p. 413.
- Gilmore, James E., Prince Rupert, British Columbia, Canada. Oakum seam-calking tool. No. 1,296,948; Mar. 11; v. 260; p. 292.
- Gilmore, Steele F., Indianapolis, Ind. Anchorage for dental bridges and plates. No. 1,320,133; Oct. 28; v. 267; p. 579.
- Gilmore, William L. (See Curtiss and Gilmore.)



## Alphabetical list of patentees—Continued.

- Gilmore, William L., and W. E. Valk, Jr., Buffalo, N. Y., assignors to Curtiss Aeroplane and Motor Corporation. Radiator for aeroplanes. No. 1,296,790; Mar. 11; v. 260; p. 255.
- Gilpatrick, Ralph W., Pasadena, Cal. Wheel. No. 1,292,305; Jan. 21; v. 258; p. 605.
- Gilpin, Garth G., Riverside, Ill., assignor to W. P. Murphy, Chicago, Ill. Release-rigging. No. 1,290,969; Jan. 14; v. 258; p. 255.
- Gilpin, Garth G., Riverside, Ill., assignor to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,300,258; Apr. 15; v. 261; p. 424.
- Gilpin, William R. (See Druitt and Gilpin.)
- Gilsey, Harry, assignor to S. & H. Gilsey, Cincinnati, Ohio. Jewel. No. 1,308,011; June 24; v. 263; p. 613.
- Gilson, Carlos H. (See Malsch and Gilson.)
- Gilson, Clair A., Niles, Mich. Geometrical and drafting instrument. No. 1,291,476; Jan. 14; v. 258; p. 373.
- Gilson, Dayton H., Rushville, Ind. Attachment for seed-drills. No. 1,292,306; Jan. 21; v. 258; p. 605.
- Gilson, John E., Port Washington, Wis. Internal-combustion engine. No. 1,316,229; Sept. 16; v. 266; p. 345.
- Gilson, John E., Port Washington, Wis. Lawn-edge trimmer. No. 1,325,014; Dec. 16; v. 269; p. 444.
- Gilson, John E., assignor to Gilson Manufacturing Company, Port Washington, Wis. Gas-engine-controlling mechanism. No. 1,308,061; July 1; v. 264; p. 10.
- Gilson, Joshua, Nebraska City, Nebr. Brooder. No. 1,300,951; Apr. 15; v. 261; p. 571.
- Gilson Manufacturing Company. (See Elton, Olaf, assignor.)
- Gilson Manufacturing Company. (See Gilson, John E., assignor.)
- Gilson, Robert M. (See Coe and Gilson.)
- Gimperl, John E., Dayton, Ohio. Locking device. No. 1,318,443; Oct. 14; v. 267; p. 211.
- Gimson & Co. (Leicester) Limited. (See Bagshaw, Charles M., assignor.)
- Gimson & Co. (Leicester) Limited. (See Mills and Bagshaw, assignors.)
- Gimson Co. (Leicester), Limited. (See Spencer and Kelly, assignors.)
- Gindrat, Louis R., Baltimore, Md. Clutch. No. 1,314,260; Aug. 26; v. 265; p. 540.
- Ginger, Frank. (See Reynolds, Rector H., assignor.)
- Ginkel, Fred, Syracuse, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Fertilizer-distributor. No. 1,325,287; Dec. 16; v. 269; p. 496.
- Ginn, Buford D., Carnesville, Ga. Knockdown cab for automobile-trucks. No. 1,314,865; Sept. 2; v. 266; p. 72.
- Ginsbach, Frank P., Watertown, S. D. Agricultural machine. No. 1,296,648; Mar. 11; v. 260; p. 222.
- Ginter, John W., Eau Gallie, Fla. Automatic compressing-tank. No. 1,323,854; Dec. 2; v. 269; p. 118.
- Ginther, John H., Taylorville, Ill. Smoke-consumer. No. 1,311,224; July 29; v. 264; p. 722.
- Giolitti, Federico, Turin, assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Heat treatment of steel. No. 1,296,649; Mar. 11; v. 260; p. 223.
- Giordano, Anthony, San Antonio, Tex. Furniture. No. 1,297,144; Mar. 11; v. 260; p. 335.
- Giordano, Pedro, Buenos Aires, Argentina. Marker. No. 1,312,248; Aug. 5; v. 265; p. 74.
- Giovanelli, Cesare. (See Sabatini and Giovanelli.)
- Giovanna, George, New York, N. Y. Illuminated ornamental effect. No. 1,308,584; July 1; v. 264; p. 105.
- Gipple, Rebecca A., Nebraska City, Nebr. Water-wheel. No. 1,316,440; Sept. 16; v. 266; p. 385.
- Gipple, Roy E., Kenmore, N. Y. Aeroplane. No. 1,318,070; Oct. 7; v. 267; p. 78.
- Gipson, Charles L., Jarbridge, Nev. Clamp. No. 1,305,353; June 3; v. 263; p. 23.
- Girard, Albert G., Worcester, Mass. Furniture. No. 1,321,732; Nov. 11; v. 268; p. 323.
- Girard, Arthur A., New Haven, Conn. Spring-tire. No. 1,291,477; Jan. 14; v. 258; p. 373.
- Girard, Louis B., Los Angeles, assignor, by mesne assignments, to himself and J. P. Whitmore, South Pasadena, Cal. Staple. No. 1,290,173; Jan. 7; v. 258; p. 38.
- Girard, Louis B., assignor, by mesne assignments, to J. P. Whitmore, South Pasadena, and L. B. Girard, Los Angeles, Calif. Window-shade mounter. No. 1,318,321; Oct. 7; v. 267; p. 127.
- Girard, Louis B., assignor, by mesne assignments, to J. P. Whitmore, South Pasadena, and L. B. Girard, Los Angeles, Calif. Window-shade-winding mechanism. No. 1,318,322; Oct. 7; v. 267; p. 127.
- Girard, Max, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of the assimilable organic phosphorus compound contained in vegetable foodstuffs. No. 1,290,971; Jan. 14; v. 258; p. 255.
- Girardeau, Emile, and J. Bethenod, Paris, France. Device for auxiliary starting for high-power radiotelegraphic stations. No. 1,312,972; Aug. 12; v. 265; p. 244.
- Girardi, Frank. (See Basil and Girardi.)
- Girdler, Samuel B., East Orange, N. J. Catch for belts. No. 1,303,652; May 13; v. 262; p. 247.
- Girl, Christian, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Spring-testing machine. No. 1,308,410; July 1; v. 264; p. 74.
- Giro Motor Company. (See Moore, Robert S., assignor.)
- Girodo, Louis, London, assignor to Fallolits Limited, Westminster, England. Acetylene-generator. No. 1,313,810; Aug. 19; v. 265; p. 420.
- Girtanner Engineering Company. (See Girtanner, Frederick, assignor.)
- Girtanner, Frederick, St. Louis, Mo., assignor, by mesne assignments, to Girtanner Engineering Company. Vacuum-unloader for railway-cars and the like. No. 1,301,427; Apr. 22; v. 261; p. 704.
- Girth, Edward, Alton, Ill. Transfer-holder. No. 1,297,145; Mar. 11; v. 260; p. 335.
- Gitenstein, Israel, New York, N. Y. Garment. No. 1,223,748; Dec. 2; v. 269; p. 98.
- Githens, James V., Knoxville, Tenn. Heat-treating and forging furnace. No. 1,298,327; Mar. 25; v. 260; p. 641.
- Gits, Alphons H., Chicago, Ill. Oil-cup. No. 1,304,556; May 27; v. 262; p. 494.
- Gitterman, Kurt R., Brooklyn, N. Y. Pasteurizer. No. 1,301,428; Apr. 22; v. 261; p. 704.
- Giuliana, Joseph, Newark, N. J. Electroplating apparatus. No. 1,291,830; Jan. 21; v. 258; p. 487.
- Given, Guy C., and R. H. Barteaux, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Separating sodium nitrate and potassium nitrate. No. 1,294,788; Feb. 18; v. 259; p. 489.
- Givens, J. J., et al. (See Sartain, Louis M., assignor.)
- Givner, Abraham, Baltimore, Md. Chair. No. 1,301,429; Apr. 22; v. 261; p. 705.
- Gjelstad, Anton, Sandefjord, Norway. Frame for riveting-tools. No. 1,295,727; Feb. 25; v. 259; p. 728.
- Glackin, Daniel T., Chicago, Ill., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,319,064; Oct. 21; v. 267; p. 354.
- Gladding, McBean & Company. (See Pemberton, George F., assignor.)
- Gladish, Frank L., Detroit, Mich. Tractor. No. 1,314,391; Aug. 26; v. 265; p. 565.
- Glaeser, Walter, Brooklyn, N. Y. Flexible transparent material and making same. No. 1,303,053; May 6; v. 262; p. 109.
- Glaeser, Walter, Brooklyn, assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Treating potassium-bearing silicates. No. 1,323,464; Dec. 2; v. 269; p. 46.
- Glafcke, Paul E., Denver, Colo. Adjustable stilt. No. 1,312,904; Aug. 12; v. 265; p. 230.
- Glafcke, Walter G., assignor of one-fourth to E. M. Evans, Durant, Okla. Chute-spring. No. 1,316,441; Sept. 16; v. 266; p. 385.
- Glamzo, Paul, Brooklyn, N. Y. Bather's purse. No. 1,314,392; Aug. 26; v. 265; p. 565.
- Glasel, Charles J., assignor to M. Wolfert, New York, N. Y. Tanning apparatus. No. 1,310,749; July 22; v. 264; p. 601.
- Glaser, Adam F., Jersey City, and J. Olsen, Whippany, N. J. Plucking implement. No. 1,315,829; Sept. 9; v. 266; p. 256.
- Glaser, Adolph J., Comfort, Tex. Dental plate. No. 1,304,038; May 20; v. 262; p. 356.
- Glashower, John P., assignor to Whitin Machine Works, Whitinsville, Mass. Lap-machine. No. 1,300,159; Apr. 8; v. 261; p. 376.
- Glaspey, Warren E. (See Fredrick and Glaspey.)
- Glaspey, Warren E. (See Fredrick, Glaspey, and Cox.)
- Glass, Christopher C., Bessemer, Ala. Fish-spear. No. 1,297,344; Mar. 18; v. 260; p. 407.
- Glass, Frederick and J., Gulfport, Miss. Sanitary cuspidor. No. 1,315,717; Sept. 9; v. 266; p. 235.
- Glass, James A., Walkerville, Ontario, Canada. Ventilator. No. 1,308,236; July 1; v. 264; p. 42.
- Glass, John. (See Glass, Frederick and J.)
- Glass, Louine R., Passaic Park, N. J., assignor of one-third to H. H. Hull and sixteen one-hundredths to C. D. Young, New York, N. Y. Lock-nut. No. 1,299,702; Apr. 8; v. 261; p. 275.
- Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,294,443; Feb. 18; v. 259; p. 410.
- Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Eyeletting-machine. No. 1,303,194; May 6; v. 262; p. 136.
- Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Edge-inking machine. No. 1,311,164; July 29; v. 264; p. 711.
- Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Combined sole laying and nailing machine. No. 1,325,085; Dec. 16; v. 269; p. 457.
- Glass, Perley R., Brookline, assignor to P. R. Glass Company, Boston, Mass. Folding-machine. No. 1,304,472; May 20; v. 262; p. 439.
- Glass, Perley R., Brookline, assignor to P. R. Glass Company, Boston, Mass. Folding-machine. No. 1,312,532; Aug. 12; v. 265; p. 158.



- Glass, Perley R., Brookline, assignor to P. R. Glass Company, Boston, Mass. Folding-machine. No. 1,312,533; Aug. 12; v. 265; p. 158.
- Glass, Perley R., Brookline, assignor to P. R. Glass Company, Boston, Mass. Punching and folding machine. No. 1,315,223; Sept. 9; v. 266; p. 147.
- Glass, William C. (See Moore and Glass.)
- Glasscock, Carl R., Springfield, Ill. Tool for removing valves from explosive-engines. No. 1,326,858; Dec. 30; v. 269; p. 843.
- Glasser, Maurice M., Charleston, S. C. Revolver-clip. No. 1,326,721; Dec. 30; v. 269; p. 817.
- Glatz, Joseph, Philadelphia, Pa. Electric fuse-plug. No. 1,313,288; Aug. 19; v. 265; p. 322.
- Glauber Brass Manufacturing Company. (See Bowlzer and Fischer, assignors.)
- Glauber Brass Manufacturing Company. (See Bowlzer and Fischer, assignors.)
- Glauber Brass Manufacturing Company. (See Yelser, Leon B., assignor.)
- Glauber Brass Manufacturing Company. (See Yelser and Fischer, assignors.)
- Glaude, Leopold F., Chicago, Ill. Drill-press. No. 1,317,285; Sept. 30; v. 266; p. 628.
- Glaudel, George, Los Angeles, Calif. Automobile-curtain. No. 1,305,460; June 3; v. 263; p. 44.
- Glazebrook, Richard T., et al. (See Rosenbain and Rodd, assignors.)
- Glazner, Isaac W., Brooklyn, N. Y. Antiskid device for vehicle-wheels. No. 1,311,554; July 29; v. 264; p. 784.
- Gleason, James E., trustee. (See Derr, Charles E., assignor.)
- Gleason, James E., trustee. (See Williams, Harvey D., assignor.)
- Gleason, James E., assignor to Gleason Works, Rochester, N. Y. Gear-cutting machinery. No. 1,325,784; Dec. 23; v. 269; p. 605.
- Gleason, John L., Boston, Mass. Continuous-contact reel. No. 1,297,146; Mar. 11; v. 260; p. 335.
- Gleason, Kate. (See Hiller, George A., assignor.)
- Gleason Works. (See Gleason, James E., assignor.)
- Gleason Works. (See McCracken, Isaac E., assignor.)
- Gleason Works. (See O'Brien, Joseph C., assignor.)
- Gleason Works. (See Stewart, Arthur L., assignor.)
- Gleason Works. (See Stewart and McMullen, assignors.)
- Gleiche, Carl, assignor to Stock Motorpfug Gesellschaft mit beschränkter Haftung, Berlin, Germany. Traction-wheel. No. 1,308,062; July 1; v. 264; p. 10.
- Glenister, Albert, High Wycombe, England. Chair, couch, or the like. No. 1,301,835; Apr. 29; v. 261; p. 813.
- Glenister, Albert, High Wycombe, England. Chair, couch, or the like. No. 1,301,836; Apr. 29; v. 261; p. 813.
- Glenn, John C., Erie, Pa. Steam-engine. No. 1,291,478; Jan. 14; v. 258; p. 373.
- Glenn, John C., Erie, Pa. Valve-gear mechanism. No. 1,306,332; June 10; v. 263; p. 240.
- Glenn, Thomas F., Ardmore, Pa., assignor to The S. S. White Dental Manufacturing Company. Artificial tooth. No. 1,303,881; May 20; v. 262; p. 328.
- Glenn, Thomas F., Ardmore, Pa., assignor to The S. S. White Dental Manufacturing Company. Producing artificial teeth. No. 1,309,127; July 8; v. 264; p. 235.
- Glenn, Walter T., assignor of one-half to C. H. Murphy, Pine Bluff, Ark. Mounting for slasher-saws. No. 1,311,887; July 29; v. 264; p. 753.
- Glenn, William A., assignor of one-third to C. A. Rye, Washington, D. C. Auto attachment. No. 1,324,890; Dec. 16; v. 269; p. 421.
- Glennon, James, Rochester, Minn. Dirigible headlight. No. 1,300,720; Apr. 15; v. 261; p. 522.
- Glenzer, John C., Highland Park, Mich. Drill and tap driver. No. 1,304,473; May 20; v. 262; p. 439.
- Glickerman, Jacob I., Chicago, Ill. Sealing-strip-soldering guide. No. 1,312,818; Aug. 5; v. 265; p. 86.
- Glidden, Earl D. (See Goff, Glidden, and Mahana.)
- Glidden, Harry D., assignor of one-third to A. J. Schwartz and one-third to G. E. Roggensack, Waverly, Iowa. Steam-engine valve-gear. No. 1,324,661; Dec. 9; v. 269; p. 317.
- Glidden, Harvey L., Natick, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cut-sole rack. No. 1,313,289; Aug. 19; v. 265; p. 322.
- Glidden, Lester L., Natick, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,321,202; Nov. 11; v. 268; p. 222.
- Glidden, Raymond B., assignor to Kewanee Implement Company, Kewanee, Ill. Watering device. No. 1,314,585; Sept. 2; v. 266; p. 21.
- Glidle, Albert, Håkonsbol, Wärrland, Sweden, assignor to Drying Products Co. Ltd. A/S., Christiania, Norway. Machine for drying liquids. No. 1,302,786; May 6; v. 262; p. 57.
- Gilding Waltz Amusement Co. (See Miller, William E., assignor.)
- Glimpse, William A., Bloomington, Ill. Head-rule. No. 1,307,967; June 24; v. 263; p. 604.
- Glinka, John, Wilson, Pa. Ship-protector. No. 1,294,789; Feb. 18; v. 259; p. 490.
- Glinka, John, Wilson, Pa. Tractor attachment for motor-vehicles. No. 1,319,998; Oct. 28; v. 267; p. 555.
- Gliwski, Frank, et al. (See Krzyzanowski, Theodore R., assignor.)
- Globe Autographic Register Company, The. (See Boyd, Blanton M., assignor.)
- Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
- Globe Machine & Stamping Company, The. (See Abbott, Samuel, assignor.)
- Globe Machine & Stamping Company, The. (See Root, Ralph R., assignor.)
- Globe Machinery and Supply Company. (See Bristol, Cyrus J., assignor.)
- Globe Manufacturing Company. (See Pohl, Charles, assignor.)
- Globe Register Company, The. (See Konerman and Leimberger, assignors.)
- Globe Register Company, The. (See Konerman and Werges, assignors.)
- Globerman, Philip I., Brooklyn, N. Y. Garment. No. 1,292,307; Jan. 21; v. 258; p. 605.
- Glocker, Gustave, North East, Md. Knob-insulator. No. 1,290,540; Jan. 7; v. 258; p. 127.
- Glodowski, Stanly, Harwick, Pa. Railway-joint. No. 1,320,463; Nov. 4; v. 268; p. 20.
- Gloss, Marie P., St. Mandé, France. Drying plant. No. 1,322,428; Nov. 18; v. 268; p. 505.
- Gloetzner, Raymond A., Berlin-Schöneberg, Germany. Production of disk records. No. 1,311,342; July 29; v. 264; p. 744.
- Glosh, Frederick P. (See Drissner, Glosh, Henn, Smith, and Stern.)
- Glover, George H., assignor to H. P. Glover, Short Hills, N. J. Poisonous-vapor generator for aeroplanes. No. 1,300,160; Apr. 8; v. 261; p. 376.
- Glover, Harriet P. (See Glover, George H., assignor.)
- Glover, Harriet P. (See Lonergan, Edward F., assignor.)
- Glover, Irvin N., Bailey, N. C. Medicated salt brick. No. 1,314,076; Aug. 26; v. 265; p. 504.
- Glowack, Mike, Wilmington, Del. Floor-cleaning apparatus. No. 1,320,464; Nov. 4; v. 268; p. 20.
- Gluher Brass Manufacturing Company. (See Fischer, Arthur L., assignor.)
- Glunt, Omer M., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnet. No. 1,291,831; Jan. 21; v. 258; p. 487.
- Glynn, Stephen A., W. H. Wolpert, and C. J. Hanzel, Antigo, Wis. Hose-supporter. No. 1,294,649; Feb. 18; v. 259; p. 457.
- Gmelin, Eugene C., Chicago, Ill. Apparatus for forming glass articles. No. 1,325,785; Dec. 23; v. 269; p. 605.
- Gnifke, Paul, assignor to Railway Electric Manufacturing Co., Milwaukee, Wis. Call-box. No. 1,309,569; July 8; v. 264; p. 317.
- Godbold, Louis A., Houston, Tex. Rotary cutter for roller-drills. No. 1,325,086; Dec. 16; v. 269; p. 458.
- Godbold, Louis A., and H. W. Fletcher, Houston, Tex. Drill-cutter. No. 1,320,384; Nov. 4; v. 268; p. 5.
- Goddard, Alvin C., New York, N. Y. Fireproof door. No. 1,295,728; Feb. 25; v. 259; p. 728.
- Goddard, Archibald N., Detroit, Mich. Milling-cutter. No. 1,311,686; July 29; v. 264; p. 808.
- Goddard, George E., assignor to Packard Motor Car Company, Detroit, Mich. Vehicle-body. No. 1,305,089; May 27; v. 262; p. 593.
- Goddard, George E., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle fender and bracket construction. No. 1,305,090; May 27; v. 262; p. 593.
- Goddard, John O. (See Colvin and Goddard.)
- Goddard, Robert H., Worcester, Mass. Magazine-rocket. No. 1,311,885; Aug. 5; v. 265; p. 7.
- Goddard, Roscoe G., Outlook, Mont. Aero-gradometer. No. 1,300,602; Apr. 15; v. 261; p. 497.
- Goddard, Walter T., Victor, N. Y. Insulator-cap. No. 1,305,712; June 3; v. 263; p. 91.
- Goddard, Walter T., Victor, N. Y. Cable-clamping device. No. 1,305,713; June 3; v. 263; p. 91.
- Goddard, Walter T., Hamilton, Ontario, Canada. Insulator. No. 1,311,067; July 22; v. 264; p. 660.
- Goddard, Wilfred B., Salt Lake City, Utah. Spark-plug. No. 1,319,216; Oct. 21; v. 267; p. 384.
- Goddu, George, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Duplex fastener-setting machine. No. 1,291,832; Jan. 21; v. 258; p. 487.
- Goddu, George, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,301,120; Apr. 22; v. 261; p. 643.
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and apparatus for assorting materials. No. 1,301,683; Apr. 22; v. 261; p. 753.
- Godfrey, Alfred, Middlesex, England. Cigarette-packet forming and filling machine. No. 1,298,328; Mar. 25; v. 260; p. 642.
- Godfrey, Edward, assignor to Canadian Explosives Limited, Montreal, Quebec, Canada. Tool for miners' and blasters' use. No. 1,300,834; Apr. 15; v. 261; p. 546.
- Godfrey, Frank W., Portland, Oreg. Direction-indicator. No. 1,326,722; Dec. 30; v. 269; p. 817.



## Alphabetical list of patentees—Continued.

- Godfrey, Frederick A., Chicago, Ill. Fixture-support. No. 1,294,790; Feb. 18; v. 259; p. 490.
- Godfrey, Harold H., Los Angeles, Calif. Apparatus for distilling shale and the like. No. 1,309,890; July 15; v. 264; p. 413.
- Godfrey, John F., Elkhart, Ind. Reclaiming-bucket. No. 1,292,757; Jan. 28; v. 258; p. 734.
- Godfrey, John F., Elkhart, Ind. Self-dumping conveying-bucket. No. 1,306,758; June 17; v. 263; p. 350.
- Godfrey, Joseph H., assignor to The Godfrey Manufacturing Company, Chicago, Ill. Bottle-filling device. No. 1,306,890; June 17; v. 263; p. 375.
- Godfrey Manufacturing Company, The. (See Godfrey, Joseph H., assignor.)
- Godfrey, Truman M. (See Kohman, Godfrey, and Ashe.)
- Godfrey, Warren P. (See Watts, Ben, assignor.)
- Godley, Charles E., assignor to Edmunds and Jones Corporation, Detroit, Mich. Lamp. No. 1,308,012; June 24; v. 263; p. 613.
- Godley, Frank A., New York, N. Y. Envelop. No. 1,306,224; June 10; v. 263; p. 218.
- Godlove, Endel, Amistad, N. Mex. Gas and spark lever for the control of motor-vehicle engines. No. 1,303,653; May 13; v. 262; p. 247.
- Godward, Ernest R., Dunedin, New Zealand. Method of and apparatus for carburation. No. 1,291,833; Jan. 21; v. 258; p. 488.
- Godwin, William S., Baltimore, Md. Paving-guard. No. 1,324,391; Dec. 9; v. 269; p. 265.
- Goebler, Charles, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y. Spindle and bowl drive. No. 1,293,082; Feb. 4; v. 259; p. 26.
- Goecke, Rudolf F., assignor to The Elyria Enameled Products Company, Elyria, Ohio. Enameled kettle. No. 1,290,733; Jan. 7; v. 258; p. 174.
- Goeddertz, Henry, Denver, Colo. Cranking mechanism for internal-combustion engines. No. 1,325,842; Dec. 23; v. 269; p. 616.
- Goedecker, Adolph. (See Albrecht and Goedecker.)
- Goedhart, Gerrit L., The Hague, Netherlands. Means for protecting vessels from mines. No. 1,296,949; Mar. 11; v. 260; p. 292.
- Goedhart, Jan G. A., Amsterdam, assignor to Naamlooze Vennootschap "Pinlock" Mattschappij tot exploitatie van de veiligheidsmoer volgens de Buiten-Europese Patenten "Systeem van der Valk en van Eck," The Hague, Netherlands. Lock-nut. No. 1,315,934; Sept. 9; v. 266; p. 276.
- Goedike, George G., assignor of one-half to A. B. Sherwood, Chicago, Ill. End holder for the roll-covers of lithographing-presses. No. 1,324,738; Dec. 9; v. 269; p. 331.
- Goehring, Frank P., Richmond, Minn. Vehicle-wheel casing and tire-protector. No. 1,296,502; Mar. 4; v. 260; p. 153.
- Goehring, Phillip, Seattle, Wash. Toy. No. 1,296,179; Mar. 4; v. 260; p. 84.
- Goennel, Rudolph F., Brooklyn, N. Y. Automobile-body. No. 1,322,896; Nov. 25; v. 268; p. 643.
- Goergens, George R., Washington, D. C. Motion-picture camera. No. 1,299,323; Apr. 1; v. 261; p. 161.
- Goerner, George F., Los Angeles, Calif. Apparatus for treating fluids. No. 1,302,913; May 6; v. 262; p. 83.
- Goertz, Frederick, Newark, N. J., assignor to The Scoban Company, Inc., New York, N. Y. Smoker's pouch. No. 1,317,571; Sept. 30; v. 266; p. 683.
- Goes Lithographing Company. (See Krohmer, William F., assignor.)
- Goetter, Herman H., and J. Trupke, Milwaukee, Wis. Jack. No. 1,309,755; July 15; v. 264; p. 389.
- Goetz, Arthur H. (See Driver and Goetz.)
- Goetz, Frank C. A., Chicago, Ill. Wire-working machine. No. 1,297,461; Mar. 18; v. 260; p. 431.
- Goetz, George L., Chicago, Ill. Booklet-cover. No. 1,306,691; June 17; v. 263; p. 338.
- Goetz, William, Vancouver, British Columbia, Canada. Carriage for wire-rope tracks. No. 1,292,308; Jan. 21; v. 258; p. 605.
- Goetzelman, William, Chicago, Ill. Attachment-plug. No. 1,294,444; Feb. 18; v. 259; p. 411.
- Goewey, Philip W. (See Reed, Walter C., assignor.)
- Goff, Daniel, Millville, N. J. Distributor for comminuted or pulverulent fuel. No. 1,318,375; Oct. 14; v. 267; p. 198.
- Goff, Douglas C., Knoxville, Tenn. Axle-housing construction. No. 1,302,151; Apr. 29; v. 261; p. 873.
- Goff, Douglas C., Knoxville, Tenn. Motor-vehicle. No. 1,321,430; Nov. 11; v. 268; p. 266.
- Goff, Frank, Collingswood, N. J. Relief-valve. No. 1,305,597; June 3; v. 263; p. 71.
- Goff, Frank, Collingswood, N. J. Relief-valve. No. 1,305,598; June 3; v. 263; p. 71.
- Goff, Howard E., Auburn, N. Y. Attachment for pea and bean vipers. No. 1,303,195; May 6; v. 262; p. 137.
- Goff, Leo D., E. D. Gidden, and C. G. Mahana, Three Rivers, Mich., assignors, by mesne assignments, to Fairbanks, Morse & Co., Chicago, Ill. Internal-combustion engine. No. 1,308,237; July 1; v. 264; p. 42.
- Goforth, J. A., et al. (See Sartain, Louis M., assignor.)
- Gogay, Harry R., assignor to The Solar Metal Products Company, Columbus, Ohio. Metal door or window frame structure. No. 1,301,930; Apr. 29; v. 261; p. 832.
- Gogay, Henry R., Columbus, Ohio, assignor to Solar Metal Products Company, Inc. Hollow metal door. No. 1,323,753; Dec. 2; v. 269; p. 99.
- Gogay, Henry R., Columbus, Ohio, assignor to Solar Metal Products Company, Inc. Hollow metal door. No. 1,323,754; Dec. 2; v. 269; p. 99.
- Gogay, Henry R., Columbus, Ohio, assignor to Solar Metal Products Company, Inc. Hollow metal door-frame. No. 1,323,755; Dec. 2; v. 269; p. 99.
- Gogay, Henry R., Columbus, Ohio, assignor to Solar Metal Products Company, Inc. Hollow metal door. No. 1,323,756; Dec. 2; v. 269; p. 100.
- Gogay, Harry R., Columbus, Ohio, assignor to Solar Metal Products Company, Inc. Hollow metal door-frame. No. 1,323,757; Dec. 2; v. 269; p. 100.
- Gogay, Henry R., Columbus, Ohio, assignor to Solar Metal Products Company, Inc. Hollow metal door-frame. No. 1,323,758; Dec. 2; v. 269; p. 100.
- Goger, Mabel, San Francisco, Calif. Sanitary and protective cap. No. 1,304,960; May 27; v. 262; p. 568.
- Goggin, Thomas E., Boston, Mass. Folding umbrella. No. 1,316,478; Sept. 16; v. 266; p. 392.
- Goggles, Frame-edging for. H. F. Shindel. No. 1,306,357; June 10; v. 263; p. 244.
- Goggles, R. Malcom. No. 1,306,549; June 10; v. 263; p. 270.
- Gouffon, Paul, Lyon, France. Element for constructional purposes. No. 1,298,927; Apr. 1; v. 261; p. 71.
- Going, George G., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,305,091; May 27; v. 262; p. 593.
- Going, George G., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,308,411; July 1; v. 264; p. 74.
- Going, George G., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,326,657; Dec. 30; v. 269; p. 804.
- Going, William J., Amsterdam, N. Y., assignor to General Textile Machinery Company, Yardley, Pa. Dyeing apparatus. No. 1,295,155; Feb. 25; v. 259; p. 536.
- Golar, George A., Dorchester, Mass. Garment-supporter. No. 1,309,983; July 15; v. 264; p. 431.
- Golber, Hyman. (See Goldberg, Hyman E.)
- Gold, Benjamin, Hobart, Ind. Repairing furnace-roofs. No. 1,316,297; Sept. 16; v. 266; p. 358.
- Gold, Benjamin, Hobart, Ind. Hanger unit. No. 1,316,298; Sept. 16; v. 266; p. 358.
- Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Steam-admission valve. No. 1,291,834; Jan. 21; v. 258; p. 488.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Thermostatic system. No. 1,292,396; Jan. 21; v. 258; p. 626.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Steam-heating apparatus. No. 1,295,302; Feb. 25; v. 259; p. 629.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Hose coupling. No. 1,312,625; Aug. 12; v. 265; p. 177.
- Gold, Egbert H., Chicago, Ill. Railway-car and heating and ventilating system therefor. No. 1,303,882; May 20; v. 262; p. 328.
- Gold, Martin, Chicago, Ill. Electric advertising-sign. No. 1,324,810; Dec. 16; v. 269; p. 407.
- Gold Medal Camp Furniture Manufacturing Co. (See Rasmussen, Martin, assignor.)
- Gold, Samuel E., Independence, assignor to Weber Engine Company, Kansas City, Mo. Internal-combustion engine. No. 1,292,309; Jan. 21; v. 258; p. 605.
- Goldbeck, Martin, Kansas City, Mo. Internal-combustion engine. No. 1,304,039; May 20; v. 262; p. 356.
- Goldberg, Arthur, New York, N. Y. Drum cover and rain-protector. No. 1,321,029; Nov. 4; v. 263; p. 127.
- Goldberg Calculating Machine Company. (See Goldberg, Hyman E., assignor.)
- Goldberg, Davidson Co. (See Skolnick, Samuel, assignor.)
- Goldberg Display Fixtures. (See Lough, Hector V., assignor.)
- Goldberg, Elias T., Bridgeport, Conn. Artificial tooth. No. 1,310,237; July 15; v. 264; p. 476.
- Goldberg, Hyman E. (now by judicial change of name Hyman Golber,) assignor to Goldberg Calculating Machine Company, Chicago, Ill. Algebraic-total calculating-machine. No. 1,296,073; Mar. 4; v. 260; p. 59.
- Goldberg, Hyman E. (now by judicial change of name Hyman Golber,) assignor to Goldberg Calculating Machine Company, Chicago, Ill. Calculating-machine. No. 1,298,198; Mar. 25; v. 260; p. 615.
- Goldberg, I. W. (See Dilks, Charles F., assignor.)
- Goldberg, Isidore W. (See Dilks, Charles F., assignor.)
- Goldberg, John S., assignor to Alemite Die-Casting & Mfg. Co., Chicago, Ill. Die-casting machine. No. 1,322,501; Nov. 18; v. 263; p. 519.
- Goldberg, Louis. (See Fader, Schatman, and Goldberg.)
- Goldberg, Louis B. and N., Denver, Colo. Automatic hasp-latch. No. 1,322,105; Nov. 18; v. 263; p. 442.



- Goldberg, Maximilian M., Dayton, Ohio. Speed-transformer. No. 1,303,291; May 13; v. 262; p. 182.
- Goldberg, Maximilian M., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,325,195; Dec. 16; v. 269; p. 478.
- Goldberg, Nathan. (See Goldberg, Louis B. and N.)
- Goldberg, Samuel, assignor to Universal Fixture Corporation, New York, N. Y. Display-ixture. No. 1,314,958; Sept. 2; v. 266; p. 88.
- Goldberg, Solomon H. (See Hermsdorf, Walter H., assignor.)
- Goldberg, Solomon H. (See McEwen, Fred E., assignor.)
- Goldberg, Solomon H., assignor to The West Coast Roofing and Manufacturing Company, Chicago, Ill. Mechanism for producing roofing material. No. 1,298,690; Apr. 1; v. 261; p. 15.
- Goldberger, Ernest, Detroit, Mich. Spring-mounting for vehicles. No. 1,325,196; Dec. 16; v. 269; p. 479.
- Golden, Abraham H., New York, N. Y. Button. No. 1,297,345; Mar. 18; v. 260; p. 408.
- Golden Belt Manufacturing Company. (See Crews, Paul E., assignor.)
- Golden, Mortimer J., Brooklyn, N. Y. Watch. No. 1,294,895; Feb. 18; v. 259; p. 514.
- Golden, Mortimer J., Brooklyn, N. Y. Waterproof crown for watches. No. 1,295,023; Feb. 18; v. 259; p. 542.
- Golden, P. F. (See Beach, John, assignor.)
- Golden, Samuel, assignor to Hullfin Boat Company, Inc., New York, N. Y. Hull for vessels. No. 1,294,082; Feb. 11; v. 259; p. 289.
- Golden, Samuel, assignor to Hullfin Boat Company, Inc., New York, N. Y. Boat or vessel. No. 1,305,896; June 3; v. 263; p. 126.
- Goldenstein, Maurice M., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,307,858; June 24; v. 263; p. 584.
- Goldfarb, Nathan J. (See Mendelson and Goldfarb.)
- Goldfoot, George, Cork, Ireland. Artificial tooth. No. 1,302,152; Apr. 29; v. 261; p. 873.
- Goldie, William, Wilkensburg, Pa. Reinforcing means for concrete structures. No. 1,312,908; Aug. 12; v. 265; p. 231.
- Goldie, William, Wilkensburg, Pa. Reinforcing-bar for concrete construction. No. 1,315,661; Sept. 9; v. 266; p. 225.
- Golding, David H., Virden, Manitoba, Canada. Pulling device. No. 1,300,953; Apr. 15; v. 261; p. 571.
- Golding, Lorin S., Salt Lake City, Utah. Pipe-cutter. No. 1,322,007; Nov. 18; v. 268; p. 425.
- Golding, Samuel H. (See Miller and Golding.)
- Golding, William R., Brooklyn, N. Y. Combination skid and standard. No. 1,293,083; Feb. 4; v. 259; p. 26.
- Goldman, Barney, New York, N. Y. Unsinkable life-boat. No. 1,305,354; June 3; v. 263; p. 25.
- Goldman, Isaac, New York, N. Y. Doll and applying hair to dolls' heads. No. 1,311,066; July 22; v. 264; p. 660.
- Goldman, Isidore, Leeds, assignor to The Dental Manufacturing Company, Limited, London, England. Artificial tooth. No. 1,316,787; Sept. 23; v. 266; p. 499.
- Goldman, Isidore H., New York, N. Y. Piston-rod packing. No. 1,303,883; May 20; v. 262; p. 328.
- Goldman, Max M., Somerville, and M. J. Connelly, Boston, Mass. Cable-thimble. No. 1,311,555; July 29; v. 264; p. 784.
- Goldman, Samuel, Chicago, Ill. Heel. No. 1,310,614; July 22; v. 264; p. 577.
- Goldmerstein, Leon, (now by judicial change of name Leon Cammen,) New York, N. Y. Aeroplane. No. 1,294,083; Feb. 11; v. 259; p. 289.
- Goldschmidt, Victor M. (See Rayner and Goldschmidt.)
- Goldschmidt, Alfred N., New York, N. Y., assignor to General Electric Company. Wireless signaling system. No. 1,323,759; Dec. 2; v. 269; p. 100.
- Goldschmidt, Charles R., New York, N. Y. Mat. No. 1,304,474; May 20; v. 262; p. 440.
- Goldschmidt, Edwin M., assignor to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Contrivance for cleaning cooking utensils and other articles. No. 1,304,176; May 20; v. 262; p. 381.
- Goldschmidt, Emil B., Cincinnati, Ohio. Block-planer for clicking-machines. No. 1,318,492; Oct. 14; v. 267; p. 220.
- Goldschmidt, Harry, and J. T. Funda, Syracuse, N. Y. Attachment for wind-shields. No. 1,307,491; June 24; v. 263; p. 518.
- Goldschmidt, Harry H. (See Iser, George, assignor.)
- Goldschmidt & Harzberg. (See Maker, Ralph K., assignor.)
- Goldschmidt, John D., Indianapolis, Ind. Emergency-wheel for automobiles. No. 1,311,119; July 22; v. 264; p. 670.
- Goldschmidt, John N., Holborn, London, assignor to The British Emallite Company, Limited, Piccadilly Circus, London, England. Cellulose ester dope or varnish. No. 1,298,199; Mar. 25; v. 260; p. 615.
- Goldschmidt, Wolf T., Newark, N. J. Lock for hand-bags. No. 1,326,723; Dec. 30; v. 269; p. 817.
- Goldspink, Archibald E., Kentish Town, assignor to Chap-pell & Company, Limited, London, England. Pneumatic action for piano-players. No. 1,298,491; Mar. 25; v. 260; p. 677.
- Goldspink, Archibald E., Kentish Town, London, England. Piano-player control. No. 1,317,572; Sept. 30; v. 266; p. 683.
- Goldstein, Harry H., Hartford, Conn. Steering-wheel. No. 1,314,741; Sept. 2; v. 266; p. 30.
- Goldstein, Jacob, West Hazleton, Pa. Fountain-pen blot-ter. No. 1,291,835; Jan. 21; v. 253; p. 489.
- Goldstein, Joseph, Brooklyn, N. Y. Chair-seat. No. 1,302,536; May 6; v. 262; p. 11.
- Goldstein, William L., New York, N. Y. Automatic fender. No. 1,305,714; June 3; v. 263; p. 81.
- Goldsworthy, William J., San Francisco, Calif. Preparation of coffee. No. 1,324,662; Dec. 9; v. 269; p. 317.
- Goldthorpe, Edwin T., assignor of three-eighths to F. Von Nessen and three-eighths to W. H. Dicks, Chicago, Ill. Ore-roasting furnace. No. 1,295,729; Feb. 25; v. 259; p. 728.
- Goldthorpe, Edwin T., assignor of three-eighths to F. Von Nessen and three-eighths to W. H. Dicks, Chicago, Ill. Making paint-bodies. No. 1,295,730; Feb. 25; v. 259; p. 729.
- Golein, Mark, Brooklyn, N. Y. Vessel construction. No. 1,321,733; Nov. 11; v. 268; p. 323.
- Golemon, Robert B., Hineson, La. Hose-supporter. No. 1,298,691; Apr. 1; v. 261; p. 16.
- Golightly, William J. (See Hitchcock and Golightly.)
- Goljan, Wacław, Cosmopolis, Wash. Front-axle drive for dirigible vehicles. No. 1,311,343; July 29; v. 264; p. 744.
- Goll, Ernest. (See Walker, William H., assignor.)
- Gollan, Jose S., and O. C. Rohde, Buenos Aires, Argentina. Automatic electric controlling device. No. 1,319,065; Oct. 21; v. 267; p. 354.
- Golly, Edward V., et al. (See Stevenot, Louis N., assignor.)
- Goltra, Edward F., T. S. Maffitt, and J. D. Dana, St. Louis, Mo., and R. W. Erwin, Waukon, Iowa, assignors, by mesne assignments, to Mississippi Valley Iron Company, Wilmington, Del. Clearing clayey ores. No. 1,301,684; Apr. 22; v. 261; p. 753.
- Goltz, Magnus A., Winona, Minn. Recovery of thorium. No. 1,322,185; Nov. 18; v. 268; p. 458.
- Golubics, Stephen, assignor to The Fleetwood Metal Body Company, Fleetwood, Pa. Socket-joint for collapsible pillars of cabriolet-bodies of automobiles. No. 1,322,165; Nov. 18; v. 268; p. 454.
- Gomand, Gabriel, Barcelona, Spain. Balanced distributor for hydraulic machines. No. 1,294,650; Feb. 18; v. 259; p. 457.
- Gomber, George W., Conyngham, assignor to Standard Automatic Machine Company, Pittsburgh, Pa. Coin-controlled mechanism for vending-machines. No. 1,293,084; Feb. 4; v. 259; p. 26.
- Gomber, George W., Conyngham, assignor to Standard Automatic Machine Company, Pittsburgh, Pa. Vending mechanism. No. 1,297,677; Mar. 18; v. 260; p. 477.
- Gomes, Antonio V. M., Lisbon, Portugal, O. L. Heintz and E. C. Messersmith, Buffalo, N. Y.; said Gomes and said Messersmith assignors to said Heintz. Mounting for machine-guns. No. 1,315,718; Sept. 9; v. 266; p. 235.
- Gomez, Joseph, Jacksonville, Ill. Chair-truck. No. 1,304,677; May 27; v. 262; p. 516.
- Gomez, Miguel B., Mexico, Mexico. Vehicle-tire. No. 1,294,084; Feb. 11; v. 259; p. 289.
- Gonsoulard, Henry P., Oakland, Cal. Toilet for railway-cars. No. 1,297,147; Mar. 11; v. 260; p. 336.
- Gonzales, Miguel, New York, N. Y. Washstand-top. No. 1,300,378; Apr. 15; v. 261; p. 450.
- Gonzalez, Miguel, New York, N. Y. Collapsible refrigerator. No. 1,321,097; Nov. 11; v. 268; p. 203.
- Gooch, Bert, assignor of one-half to R. M. McMullin, Johnson City, Ill. Machine-skid. No. 1,291,836; Jan. 21; v. 258; p. 489.
- Gooch, Terry J., Lewisburg, N. C. Steam-cooker. No. 1,297,832; Mar. 18; v. 260; p. 510.
- Good, David D., Philadelphia, Pa. Automatic train-stopping device. No. 1,294,651; Feb. 18; v. 259; p. 457.
- Good, David D., Philadelphia, Pa. Portable door and window lock. No. 1,318,987; Oct. 14; v. 267; p. 315.
- Good, David D., Philadelphia, Pa. Door-adjuster. No. 1,318,988; Oct. 14; v. 267; p. 315.
- Good, David H., Kansas City, Mo. Self-adjusting traction device. No. 1,301,554; Apr. 22; v. 261; p. 728.
- Good, Ezra E., Minneapolis, Minn. Milking apparatus. No. 1,297,346; Mar. 18; v. 260; p. 408.
- Good Inventions Co. (See Good, John, assignor.)
- Good, Isadore, David City, Nebr. Brush. No. 1,322,166; Nov. 18; v. 268; p. 454.
- Good, John, Brooklyn, N. Y. Boat-balling means. No. 1,304,961; May 27; v. 262; p. 569.
- Good, John, New York, N. Y. Separator. No. 1,306,003; June 10; v. 263; p. 176.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Fuel-charge-supply apparatus. No. 1,314,056; Aug. 26; v. 265; p. 500.
- Goodactive, Nils E. (See Larson, Nils E.)
- Goodale, Frank B., Iola, Kans. Motor-stand. No. 1,296,074; Mar. 4; v. 260; p. 59.
- Goodale, Frank B., Iola, Kans. Adjustable vise or press. No. 1,317,439; Sept. 30; v. 266; p. 657.



## Alphabetical list of patentees—Continued.

- Goodale, Ward R., and M. L. Bullard, Manchester, assignors to Isothermal Carburetor Company, Portsmouth, N. H. Carburetor. No. 1,306,144; June 10; v. 263; p. 202.
- Goode, Edwin J., Saffron Walden, England. Motor plow and cultivator. No. 1,298,329; Mar. 25; v. 260; p. 642.
- Goode, Thomas A., Kansas City, Kans., assignor of one-third to C. M. Hinds, Kansas City, Mo., and one-third to J. Bragg, Huntington, Oreg. Gear-shift-locking mechanism. No. 1,307,354; June 24; v. 263; p. 492.
- Goode, Thomas A., Kansas City, Kans., assignor of one-third to C. M. Hinds, Kansas City, Mo., and one-third to J. Bragg, Huntington, Oreg. Combination-padlock. 1,307,582; June 24; v. 263; p. 534.
- Goodenow, Frederick J., Detroit, Mich. Furnace-door. No. 1,320,134; Oct. 28; v. 267; p. 580.
- Gooderham, George H., et al. (See McCullum, James H. K., assignor.)
- Goodfellow, Walter V., Los Angeles, Calif. Method and apparatus for administering anesthetics. No. 1,323,181; Nov. 25; v. 268; p. 698.
- Goodhart, Louis, and B. R. Parrott, assignors to One Wheel Truck Company, St. Louis, Mo. Tractor. No. 1,325,633; Dec. 23; v. 269; p. 576.
- Goodhue, Fred M., Buffalo, N. Y. Album leaf or leaves. No. 1,320,683; Nov. 4; v. 268; p. 60.
- Goodhue, Julian G., Chicago, Ill. Apparatus for treating food or other materials. No. 1,290,734; Jan. 7; v. 258; p. 175.
- Goodhue, Julian G., Chicago, Ill. Disinfectant apparatus. No. 1,293,405; Feb. 4; v. 259; p. 100.
- Goodhue, Julian G., Chicago, Ill. Disinfecting apparatus. No. 1,293,406; Feb. 4; v. 259; p. 100.
- Goodhue, Julian G., Chicago, Ill. Spraying or like apparatus. No. 1,293,407; Feb. 4; v. 259; p. 101.
- Goodhue, Julian G., Chicago, Ill. Disinfecting apparatus or like. No. 1,293,408; Feb. 4; v. 259; p. 101.
- Goodhue, Julian G., Chicago, Ill. Elbow or fitting. No. 1,293,409; Feb. 4; v. 259; p. 101.
- Goodhue, Julian G., assignor to The Universal Utilities Company of Illinois, Chicago, Ill. Disinfecting system. No. 1,309,028; July 8; v. 264; p. 217.
- Goodhue, Julian G., assignor to The Universal Utilities Company of Illinois, Chicago, Ill. Disinfecting apparatus. No. 1,309,029; July 8; v. 264; p. 217.
- Goodhue, Julian G., assignor to The Universal Utilities Company of Illinois, Chicago, Ill. Rotary valve. No. 1,326,046; Dec. 23; v. 269; p. 653.
- Gooding, Charles F., Lancaster, Calif. Fuel-vaporizer. No. 1,322,429; Nov. 18; v. 268; p. 505.
- Gooding, Charles S., Brookline, and S. E. Taft, Framingham, Mass. Machine for blanching nut-kernels. No. 1,322,800; Nov. 18; v. 268; p. 480.
- Gooding, William S., Chicago, Ill. Punch-press. No. 1,305,461; June 3; v. 263; p. 44.
- Goodknight, Alva L., Heavener, Okla. Air-brake mechanism. No. 1,322,783; Nov. 25; v. 268; p. 622.
- Goodlake, Frederick D., Memphis, Tenn. Vulcanizing apparatus. No. 1,318,273; Oct. 7; v. 267; p. 118.
- Goodlett, Edgar N., Los Angeles, and J. B. Goodwin, Long Beach, Cal. Separable core for concrete work. No. 1,290,972; Jan. 14; v. 258; p. 256.
- Goodman, Conrad C. (See Goodman, David and C. C.)
- Goodman, David and Conrad C., Philadelphia, Pa. Dancing and revolving figures and operating mechanism therefor. No. 1,318,071; Oct. 7; v. 267; p. 78.
- Goodman, Fred J. (See Brokenshire, Arthur R., assignor.)
- Goodman, Julius. (See Hamilton and Goodman.)
- Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
- Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)
- Goodman, Max P., et al. (See Burgert, Joseph, assignor.)
- Goodman, Nathan, and B. Grubman, New York, N. Y. Making resincol. No. 1,314,138; Aug. 26; v. 265; p. 516.
- Goodman, Nathan J., St. Louis, Mo., assignor to Modern Specialties Mfg. Co., Wilmington, Del. Apparel-collar. No. 1,294,085; Feb. 11; v. 259; p. 290.
- Goodman, Patrick, New York, N. Y. Excavating-machine. No. 1,326,337; Dec. 30; v. 269; p. 744.
- Goodman, Wade H., and E. A. Holden, Spokane, Wash., assignor to The Holt Manufacturing Company, Stockton, Calif. Steering-truck. No. 1,317,649; Sept. 30; v. 266; p. 698.
- Goodman, William T., Guanah, Tex. Cotton-chopper. No. 1,294,259; Feb. 11; v. 259; p. 330.
- Goodman, William T., Goodlet, Tex. Cultivator. No. 1,295,731; Feb. 25; v. 259; p. 729.
- Goodnight, Austin, Kingsburg, Calif. Clamp for attaching auxiliary rims to wheels. No. 1,322,301; Nov. 18; v. 268; p. 480.
- Goodnow, Charles F., Jr., South Sudbury, Mass. Sanitary tooth-brush holder. No. 1,303,884; May 20; v. 262; p. 328.
- Goodrich, B. F., The. (See Davidson, Elias E., assignor.)
- Goodrich, Clarence L., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Metal-working machine. No. 1,299,168; Apr. 1; v. 261; p. 125.
- Goodrich, Harry C., Fort Lee, N. J. Package-carrier. No. 1,291,479; Jan. 14; v. 258; p. 878.
- Goodrich, Rillie W., Wakefield, Va. Cultivator. No. 1,294,086; Feb. 11; v. 259; p. 290.
- Goodrich, William J., assignor of one-third to H. Helfman and one-third to S. M. Schott, Detroit, Mich. Oil-wiper. No. 1,316,707; Sept. 23; v. 266; p. 485.
- Goodridge, Gilbert W., assignor to Bryant Electric Company, Bridgeport, Conn. Electric-range switch. No. 1,323,047; Nov. 25; v. 268; p. 672.
- Goodrow, William, Chicago, Ill. Adjustable cornice. No. 1,304,678; May 27; v. 262; p. 516.
- Goodrum, Charles L. (See Clausen and Goodrum.)
- Goodrum, Charles L. (See McQuarrie and Goodrum.)
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Contact-bank. No. 1,298,330; Mar. 25; v. 260; p. 642.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,309,248; July 8; v. 264; p. 257.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,319,999; Oct. 28; v. 267; p. 555.
- Goodsell, Melvin A., Hopkinsville, Ky. Attachment for farm-machines. No. 1,324,663; Dec. 9; v. 269; p. 317.
- Goodspeed, Arthur B., Hadlyme, Conn., assignor to Industrial Development Company, New York, N. Y. Internal-combustion engine. No. 1,302,653; May 6; v. 262; p. 33.
- Goodwill, Jasper E., Omaha, Nebr. Locking means for motor-vehicles. No. 1,305,277; June 3; v. 263; p. 9.
- Goodwin, Alfred D., Ripon, Calif. Operating means for valve-grinding tools. No. 1,326,190; Dec. 30; v. 269; p. 717.
- Goodwin, Elias H., San Francisco, Cal. Salt and pepper shaker. No. 1,294,652; Feb. 18; v. 259; p. 457.
- Goodwin, George S., assignor to W. P. Murphy, Chicago, Ill. End reinforcement for box-cars. (Reissue.) No. 14,588; Feb. 4; v. 259; p. 158.
- Goodwin, Hall, Chicago, Ill. Fuel-saving appliance for internal-combustion engines. No. 1,323,048; Nov. 25; v. 268; p. 672.
- Goodwin, Harry B., Grand Junction, Colo., assignor to The Latimer Chemical Company, Arsenate of lead. No. 1,322,008; Nov. 18; v. 268; p. 425.
- Goodwin, James D., Richmond, Va. Safety-razor. (Reissue.) No. 14,748; Nov. 11; v. 268; p. 336.
- Goodwin, John B. (See Goodlett and Goodwin.)
- Goodwin, John F. and G. W. Caulkins, Boston, Mass. Governor for controlling the supply of liquid fuel to stoves or heaters. No. 1,297,557; Mar. 18; v. 260; p. 451.
- Goodwin, John O., Harrisburg, Pa. Liquid-fuel burner. No. 1,302,360; Apr. 29; v. 261; p. 912.
- Goodwin, Levi H., Crab Orchard, Ky. Cooled-bottle dispenser. No. 1,293,410; Feb. 4; v. 259; p. 101.
- Goodwin, Samuel T., New York, N. Y. Spring suspension for vehicles. No. 1,326,257; Dec. 30; v. 269; p. 730.
- Goodwin, William, Peterboro, assignor to T. A. Low Renfrew, Ontario, Canada. Valve. No. 1,325,087; Dec. 16; v. 269; p. 458.
- Goodyear, Charles W., Dudley, England. Means for conveying or transporting goods. No. 1,299,829; Apr. 8; v. 261; p. 305.
- Goodyear, Nelson, assignor to O. F. Perry, Sr., New York, N. Y. Pneumatic gun. No. 1,324,772; Dec. 9; v. 269; p. 338.
- Goodyear Tire and Rubber Company, The. (See Atkins, James B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Bedford, Clayton W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
- Goodyear Tire & Rubber Company, The. (See Day, Ralph B., assignor.)
- Goodyear Tire and Rubber Company, The. (See Hale, James E., assignor.)
- Goodyear Tire & Rubber Company, The. (See Hale and Brunner, assignors.)
- Goodyear Tire & Rubber Company, The. (See Harsel, William B., assignor.)
- Goodyear Tire & Rubber Company. (See Hartong, Robert C., assignor.)
- Goodyear Tire & Rubber Company, The. (See Hoover, Clair G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kilborn, Karl B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kuentzel, Curt, assignor.)
- Goodyear Tire & Rubber Company, The. (See Nall, Edward, assignor.)
- Goodyear Tire & Rubber Company, The. (See Orr, Clifford B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Replogle, Mark A., assignor.)
- Goodyear Tire & Rubber Company, The. (See Selberling, Frank A., assignor.)
- Goodyear Tire & Rubber Company, The. (See Shively and Kilborn, assignors.)
- Goodyear Tire & Rubber Company, The. (See Templeton, Edwin G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Troegner, Roland S., assignor.)



- Goodyear Tire & Rubber Company, The. (See Tyler, William C., assignor.)
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- Goodyear Tire & Rubber Company, The. (See Upson, Ralph H., assignor.)
- Goodyear Tire & Rubber Company, The. (See Wattleworth, Charles W., assignor.)
- Goodyear's India Rubber Company, The. (See Mahoney, Jeremiah L., assignor.)
- Goodyear's India Rubber Glove Manufacturing Co., The. (See Eggers, Anton C., assignor.)
- Goodyear's India Rubber Glove Manufacturing Company, The. (See Mahoney, Jeremiah L., assignor.)
- Goodyear's Metallic Rubber Shoe Company. (See Clark, Myron H., assignor.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Price, Raymond B., assignor.)
- Goodyear's Metallic Rubber Tire Company, The. (See Randall, Chester J., assignor.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Rieder and Wiegand, assignors.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Worley, Trowbridge, Wurttemberg, and Lee, assignors.)
- Goodykooztz, Frank A., Miami, Ariz. Scraper for belts. No. 1,299,324; Apr. 1; v. 261; p. 161.
- Goody, Katharine V., Fulton, Mo. Mop. No. 1,298,037; Mar. 25; v. 260; p. 580.
- Goolman, Eva S. (See Goolman, Fred R., assignor.)
- Goolman, Fred R., Binghamton, assignor to E. S. Goolman, Syracuse, N. Y. Toy automatic player-piano. No. 1,314,189; Aug. 26; v. 265; p. 526.
- Goordman, Elmer O., Stratford, Conn. Self-gripping mandrel. No. 1,323,855; Dec. 2; v. 269; p. 119.
- Gootee, James, Wilmington, Del. Coupling for hose of air-lines. No. 1,313,225; Aug. 12; v. 265; p. 294.
- Gozezy, Charles A., assignor to B. A. Ballou & Company Inc., Providence, R. I. Safety-catch. No. 1,321,621; Nov. 11; v. 268; p. 302.
- Goranson, Nels, Queensborough, New Westminster, British Columbia, Canada. Food product. No. 1,319,953; Oct. 28; v. 267; p. 546.
- Gorden, Isom A., Blue Mound, Ill. Nut-lock. No. 1,293,755; Feb. 11; v. 259; p. 212.
- Gordon, Abbie, Belvidere, Ill. Folding paper box. No. 1,302,361; Apr. 29; v. 261; p. 912.
- Gordon, Al C., Glens Falls, N. Y. Auxiliary steam-generator. No. 1,318,376; Oct. 14; v. 267; p. 198.
- Gordon, Alexander W., Crossfield, Alberta, Canada. Hanger for sliding doors. No. 1,312,973; Aug. 12; v. 265; p. 244.
- Gordon, Arckett, Niagara Falls, N. Y. Tool-maker's clamp. No. 1,321,734; Nov. 11; v. 268; p. 324.
- Gordon, Arthur, Johannesburg, Transvaal, South Africa. Precipitation of metals from solutions. No. 1,323,588; Dec. 2; v. 269; p. 69.
- Gordon, Beirne, Jr., Utica, N. Y. Weighing and marking device. No. 1,315,769; Sept. 9; v. 266; p. 244.
- Gordon, Claud S., Chicago, Ill. Pyrometer-switch. No. 1,320,544; Nov. 4; v. 268; p. 35.
- Gordon, David, et al. (See Pascal, Isreal, assignor.)
- Gordon, David D., assignor to Central West Electric Co., Chicago, Ill. Mechanical movement. No. 1,303,196; May 6; v. 262; p. 137.
- Gordon, David D., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plug. No. 1,320,135; Oct. 28; v. 267; p. 580.
- Gordon Electric and Manufacturing Co. (See Buchsbaum, Samuel, assignor.)
- Gordon, Fynis C., Cashmere, Wash. Fruit-sorting table. No. 1,317,573; Sept. 30; v. 266; p. 684.
- Gordon, Gurney, and C. A. Garrett, Reno, Nev. Water-bag holder. No. 1,294,653; Feb. 18; v. 259; p. 458.
- Gordon, Hayner H. (See Pierce and Gordon.)
- Gordon, John C., Birmingham, England. Socket or device for receiving or bearing screws such as are employed for fastening purposes. No. 1,311,646; July 29; v. 264; p. 801.
- Gordon, Robert L. (See Demers, Gordon, and Snow.)
- Gordon, Thomas, and H. W. Simpson, Parson's Bridge, Vancouver Island, British Columbia, Canada. Rock-drill. No. 1,301,121; Apr. 22; v. 261; p. 643.
- Gore, Herbert C., Takoma Park, Md. Producing a syrup and a feed. No. 1,310,012; July 15; v. 264; p. 436.
- Gore, Julia, Wilmington, N. C. Box-wrapper. No. 1,291,480; Jan. 14; v. 258; p. 373.
- Gore, Warren W., assignor to Fuller & Johnson M'fg Co., Madison, Wis. Fuel-feed device for engines. No. 1,293,756; Feb. 11; v. 259; p. 212.
- Gore, William M., et al. (See Byrne, David, assignor.)
- Goreau, Nelson G., New Orleans, La. Pilot-light. No. 1,302,914; May 6; v. 262; p. 83.
- Goreau, Nelson G., New Orleans, La. Water-heater. No. 1,303,054; May 6; v. 262; p. 109.
- Gorenkowski, Wilhelm F. K., La Salle, Ill. Switching means. No. 1,302,537; May 6; v. 262; p. 11.
- Görgey, William, assignor of one-half to J. Waculik, South Bethlehem, Pa. Snow-melting device. No. 1,298,200; Mar. 25; v. 260; p. 615.
- Gorham, Edwin T., assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Cutter-grinder. No. 1,295,156; Feb. 25; v. 259; p. 597.
- Gorham Manufacturing Company. (See Crocker, Elisha W., assignor.)
- Gorham Manufacturing Company. (See Peters, Richard E., assignor.)
- Gorham, William R., Alameda, Cal. Internal-combustion-engine structure. No. 1,291,837; Jan. 21; v. 258; p. 489.
- Gorham, William R., Alameda, Cal. Internal-combustion motor. No. 1,291,838; Jan. 21; v. 258; p. 489.
- Gorham, William R., Alameda, Cal. Internal-combustion motor. No. 1,291,839; Jan. 21; v. 258; p. 490.
- Gorinac, Joseph, Collinwood, Ohio. Railway-crossing. No. 1,322,238; Nov. 18; v. 268; p. 468.
- Gorius, Louis C., and F. B. Hays, Indianapolis, Ind. Cleaning compound. No. 1,322,009; Nov. 18; v. 268; p. 425.
- Gorman, James J., Durango, Colo. Valve-grinder. No. 1,295,303; Feb. 25; v. 259; p. 629.
- Gorman, James C., Jr., assignor to The Barnes Manufacturing Company, Mansfield, Ohio. Diaphragm-pump. No. 1,296,503; Mar. 4; v. 260; p. 153.
- Gorman, James C., Jr., assignor to Barnes Manufacturing Company, Mansfield, Ohio. Double-cylinder pump. No. 1,308,238; July 1; v. 264; p. 43.
- Gorman, James C., Jr., assignor to Barnes Manufacturing Company, Mansfield, Ohio. Double-acting single-cylinder pump. No. 1,323,749; Dec. 2; v. 269; p. 93.
- Gorman, John F., Portland, Oreg. Portable power-saw. No. 1,323,465; Dec. 2; v. 269; p. 46.
- Gorman, Max, Stellacom, Wash. Safety-hook. No. 1,307,251; June 17; v. 263; p. 440.
- Gormley, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Lifting-jack. No. 1,315,928; Sept. 9; v. 266; p. 275.
- Gormley, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Lifting-jack. No. 1,324,345; Dec. 9; v. 269; p. 256.
- Gormley, Frank L., Brookline, assignor to A. O. Norton, Inc., Boston, Mass. Governor. No. 1,324,346; Dec. 9; v. 269; p. 256.
- Gornicec, Emil, Youngstown, Ohio. Combination-lock. No. 1,326,191; Dec. 30; v. 269; p. 717.
- Gorseth, Erik A., Wall, S. D. Calf-weaner. No. 1,306,590; June 10; v. 263; p. 286.
- Gorton, George, and G. E. Gustafson, Racine, Wis.; said Gustafson assignor to said Gorton. Metal-working machine. No. 1,312,394; Aug. 5; v. 265; p. 101.
- Gorton, Paul, Remus, Mich. Cultivator attachment. No. 1,301,555; Apr. 22; v. 261; p. 728.
- Gorton, Robert, Brookline, Mass. Making garters. No. 1,325,716; Dec. 23; v. 269; p. 592.
- Gorton, Robert, Brookline, Mass. Garter. No. 1,325,717; Dec. 23; v. 269; p. 592.
- Gory, Gaston J., Chicago, Ill. Parcel-wrapper. No. 1,293,085; Feb. 4; v. 259; p. 26.
- Gorzelay, Thomas, Detroit, Mich. Grater and slicer. No. 1,308,668; July 1; v. 264; p. 121.
- Goshorn, Jno. F. (See Jones, Arthur S., assignor.)
- Gosiewski, Joseph, Utica, N. Y. Dough-cutting machine. No. 1,295,024; Feb. 18; v. 259; p. 542.
- Goss, Galen A., Durand, Wis. Highway-maintenance attachment for motor-trucks. No. 1,304,557; May 27; v. 262; p. 494.
- Goss, George C. W., West Englewood, N. J. Tool-holder. No. 1,290,541; Jan. 7; v. 258; p. 128.
- Goss, George C. W., West Englewood, N. J. Tool-holder. No. 1,290,542; Jan. 7; v. 258; p. 128.
- Goss, George W., Baltimore, Ohio. Combined plow and harrow. No. 1,320,851; Nov. 4; v. 268; p. 93.
- Goss, Jeff D., Lake City, Fla. Saw-handle. No. 1,316,479; Sept. 16; v. 266; p. 392.
- Goss Printing Press Company, The. (See Brueshaber, Martin W., assignor.)
- Goss Printing Press Company. (See Evensen, William M., assignor.)
- Goss Printing Press Company, The. (See Goss, Samuel G., assignor.)
- Goss Printing Press Company, The. (See Goss and Smith, assignors.)
- Goss Printing Press Company. (See Henzl, Albert A., assignor.)
- Goss Printing Press Company. (See Lang, Hubert, assignor.)
- Goss Printing Press Company. (See Seymour, Ralph C., assignor.)
- Goss Printing Press Company, The. (See Smith, Ernest J., assignor.)
- Goss Printing Press Company, The. (See Walser, Joseph J., assignor.)
- Goss Printing Press Company, The. (See Walser and Dresser, assignors.)
- Goss, Samuel G., Glencoe, assignor to The Goss Printing Press Company, Chicago, Ill. Change web-roll mechanism. No. 1,301,122; Apr. 22; v. 261; p. 644.
- Goss, Samuel G., Glencoe, assignor to The Goss Printing Press Company, Chicago, Ill. Change web-roll mechanism for printing-presses. No. 1,301,123; Apr. 22; v. 261; p. 644.
- Goss, Samuel G., Glencoe, Ill., assignor to Goss Printing Press Company. Sheet-handling machine. No. 1,311,886; Aug. 5; v. 265; p. 7.



## Alphabetical list of patentees—Continued.

- Goss, Samuel G., Glencoe, and E. J. Smith, assignors to The Goss Printing Press Company, Chicago, Ill. Roll-controlling mechanism for printing-presses. No. 1,301,124; Apr. 22; v. 261; p. 644.
- Goss, Samuel G., Glencoe, and E. J. Smith, assignors to The Goss Printing Press Company, Chicago, Ill. Web-roll mechanism for printing-presses. No. 1,301,125; Apr. 22; v. 261; p. 644.
- Goss, Samuel G., Glencoe, and E. J. Smith, assignors to The Goss Printing Press Company, Chicago, Ill. Change-web-roll mechanism. No. 1,316,708; Sept. 23; v. 266; p. 485.
- Goss, William C., Minneapolis, Minn. Locking-slide fastener. No. 1,320,385; Nov. 4; v. 268; p. 6.
- Goss, William H., Hammonton, Calif. Rodent-trap. No. 1,316,788; Sept. 23; v. 266; p. 499.
- Gossard, Sarah L., Chicago, Ill. Hospital-mattress. No. 1,302,915; May 6; v. 262; p. 83.
- Gosselin, Benoit J. X., San Sebastian, Spain. Astronomical reflecting instrument for the measurement of angles. No. 1,319,954; Oct. 28; v. 267; p. 546.
- Gossling, Walter E. (See Noble and Gossling.)
- Gosso, Alton E., Chicago, Ill. Bed. No. 1,325,320; Dec. 16; v. 269; p. 502.
- Gossom, Benjamin F., Brookline, Mass. Merchandise-package and making the same. No. 1,310,185; July 15; v. 264; p. 466.
- Goterch, Jozef, Lawrence, Mass. Filling-feeler. No. 1,290,973; Jan. 14; v. 258; p. 256.
- Gottesman, Herman, New York, N. Y. Lock-operated circuit-closer. No. 1,307,628; June 24; v. 263; p. 542.
- Gottfried, Conrad F., Brooklyn, N. Y. Ear air-douche. No. 1,323,466; Dec. 2; v. 269; p. 46.
- Gottlieb, Samuel. (See Katchem, Charles J., assignor.)
- Gottschalk Automatic Brick Oven Co. (See Gottschalk, Victor H., assignor.)
- Gottschalk, Charles F. (See Carr and Schoene, assignors.)
- Gottschalk, Esther, administratrix. (See Gottschalk, Louis.)
- Gottschalk, Felix, Hilton, N. J. Interchangeable transmitter-casing. No. 1,300,721; Apr. 15; v. 261; p. 522.
- Gottschalk, Frank, Steubenville, Ohio. Step-mold. No. 1,319,385; Oct. 21; v. 267; p. 415.
- Gottschalk, Henry L., Chicago, Ill. Artificial fish-bait. No. 1,318,072; Oct. 7; v. 267; p. 78.
- Gottschalk, Henry L., Chicago, Ill. Artificial fish-bait. No. 1,318,073; Oct. 7; v. 267; p. 79.
- Gottschalk, John J., Taunton, Mass. Device to prevent hens from setting. No. 1,321,819; Nov. 18; v. 268; p. 390.
- Gottschalk, Lionel J., U. S. Navy. Fire-extinguishing apparatus. No. 1,321,820; Nov. 18; v. 268; p. 391.
- Gottschalk, Louis, deceased, Rahway, N. J.; E. Gottschalk, administratrix. Synthetically producing rubber or like substances. No. 1,323,589; Dec. 2; v. 269; p. 69.
- Gottschalk, Victor H., assignor to Gottschalk Automatic Brick Oven Co., Reedsville, Pa. Oven mechanism. No. 1,295,478; Feb. 25; v. 259; p. 670.
- Gottshalk, Herman. (See Stajanovitz, Konstantin, assignor.)
- Gottwald, Christian, assignor to The Ric-Wil Company, Cleveland, Ohio. Underground-conduit construction. No. 1,314,866; Sept. 2; v. 266; p. 72.
- Gottwals, William O., Washington, D. C. Sheet-metal sectional cabinet. No. 1,294,087; Feb. 11; v. 259; p. 290.
- Gotty, John G., Jacksonville, Fla. Lining turpentine-barrels. No. 1,323,528; Dec. 2; v. 269; p. 57.
- Goubert, Auguste A., Englewood, N. J. Apparatus for dehydrating. No. 1,305,600; June 3; v. 263; p. 71.
- Goubert, Auguste A., Englewood, assignor to H. Bentz, Montclair, N. J. Drying various substances. No. 1,305,599; June 3; v. 263; p. 71.
- Goubert, Auguste A., Englewood, assignor to H. Bentz, Montclair, N. J. Gas-washer. No. 1,320,852; Nov. 4; v. 268; p. 93.
- Goubert, Floris, Paris, France. Snap-fastener. No. 1,299,325; Apr. 1; v. 261; p. 161.
- Gouchenour, John F., Greybull, Wyo. Oil and water separator. No. 1,315,662; Sept. 9; v. 266; p. 225.
- Goudet, Charles, assignor to the Firm of Societe d'Etudes Chimiques pour l'Industrie, Geneva, Switzerland. Process and apparatus for fractional distillation of liquids. No. 1,312,974; Aug. 12; v. 265; p. 245.
- Gough, Achilles C., Pocatello, Idaho. Separator. No. 1,311,811; July 29; v. 264; p. 832.
- Gough, John J., Benton, Ky. Auxiliary air-supply for internal-combustion engines. No. 1,312,975; Aug. 12; v. 265; p. 245.
- Gough, John J., and H. H. Strow, Benton, Ky. Cuspidor. No. 1,301,249; Apr. 22; v. 261; p. 670.
- Goughnour, Charles L., Pasadena, Calif., assignor to The United Electric Company, Canton, Ohio. Vacuum-cleaner. No. 1,316,442; Sept. 16; v. 266; p. 385.
- Gouinlock, Walter F., Toronto, Ontario, Canada. Greenhouse. No. 1,318,811; Aug. 19; v. 265; p. 420.
- Gould Coupler Company. (See Bouché, William F., assignor.)
- Gould Coupler Company. (See Bouché and Hartmann, assignors.)
- Gould Coupler Company. (See Crosby, Gorham, assignor.)
- Gould Coupler Company. (See Hartman, Carl, assignor.)
- Gould Coupler Company. (See Jepson, John W., assignor.)
- Gould Coupler Company. (See McGary, Alexander, assignor.)
- Gould Coupler Company. (See Milne, George G., assignor.)
- Gould Coupler Company. (See Richards and Davis, assignors.)
- Gould Coupler Company. (See Sauvage, William H., assignor.)
- Gould & Eberhardt. (See Jacobson, Hugo W., assignor.)
- Gould & Eberhardt. (See Zimmermann, William F., assignor.)
- Gould, Harry B., jr., assignor to The Merrow Machine Company, Hartford, Conn. Sewing-machine. No. 1,319,277; Oct. 21; v. 267; p. 395.
- Gould, Harry G., assignor to Gould Manufacturing Company, Oshkosh, Wis. Toy. No. 1,306,111; June 10; v. 263; p. 196.
- Gould, Henry W., San Francisco, Calif. Recovering quicksilver from its ores. No. 1,315,663; Sept. 9; v. 266; p. 225.
- Gould, Henry W., San Francisco, Calif. Apparatus for recovering quicksilver from its ores. No. 1,317,920; Oct. 7; v. 267; p. 49.
- Gould, Henry W., San Francisco, Calif. Roasting-furnace. No. 1,319,700; Oct. 28; v. 267; p. 498.
- Gould, John H., Detroit, Mich., and M. E. Konigsnow, Cleveland, Ohio, assignors to Pfanstiel Company, Inc., North Chicago, Ill. Valve for internal-combustion engines and making the same. No. 1,295,979; Mar. 4; v. 260; p. 36.
- Gould, John N., assignor to The F. B. Zieg Mfg. Company, Fredericktown, Ohio. Road-grader. No. 1,298,331; Mar. 25; v. 260; p. 642.
- Gould Manufacturing Company. (See Gould, Harry G., assignor.)
- Gould Storage Battery Company. (See Chamberlain, Rufus N., assignor.)
- Goulding, Albanus W., Trenton, N. J., assignor to E. S. Mead, Philadelphia, Pa. Artificial fuel and making the same. No. 1,305,209; May 27; v. 262; p. 616.
- Goulding, James, Surrey Hills, Victoria, Australia. Side-car attachment to motor-bicycles. No. 1,303,791; May 13; v. 262; p. 273.
- Gourdou, Charles E. P., assignor to himself and J. A. Leseurre, St.-Mandé, France. Monoplane with subsidiary planes. No. 1,305,534; June 3; v. 263; p. 57.
- Gourju, Alexandre, assignor to A. Lecomte, Lyon, France. Socket for incandescent electric-lamp holders. No. 1,302,787; May 6; v. 262; p. 57.
- Gourju, Alexandre, Villeurbanne, assignor to La Societe A Lecomte et Cie., Lyon, France. Electric switch. No. 1,310,474; July 22; v. 264; p. 550.
- Gourland Typewriter Corporation. (See Spiro, Charles, assignor.)
- Goussy, Emil C., South Saginaw, Mich. Fruit-picker. No. 1,303,885; May 20; v. 262; p. 328.
- Gove, Henry H., assignor of one-half to J. F. Dean, Biddeford, Me. Valve construction for internal-combustion engines. No. 1,303,654; May 13; v. 262; p. 247.
- Gove, Henry H., Biddeford, assignor of one-half to H. R. Whitehead, Saco, Me. Filling-end-extracting mechanism for looms. No. 1,303,886; May 20; v. 262; p. 329.
- Government of the United States. (See Boston and Patrick, assignors.)
- Government of the United States. (See Carpentier, Georges J. N., assignor.)
- Government of the United States. (See Corley, William A., assignor.)
- Government of the United States. (See Fullinwider and Minkler, assignors.)
- Government of the United States. (See Gowdy, Robert C., assignor.)
- Government of the United States. (See Halsey, Arthur S., assignor.)
- Government of the United States. (See Hibbs, Nelson W., assignor.)
- Government of the United States. (See McConnell, James W., assignor.)
- Government of the United States. (See Minkler, Chester T., assignor.)
- Government of the United States. (See Rockwell, Lea W., assignor.)
- Government of the United States et al. (See Sanders, George E., assignor.)
- Government of the United States. (See Stone and Rockwell, assignors.)
- Government of the United States. (See Taylor, Lyndon B., assignor.)
- Government of the United States, The. (See Wilkinson, Theodore S., assignor.)
- Government of the United States. (See Yoder and Longley, assignors.)
- Govers, Francis X., New York, N. Y. Apparatus for the heat treatment of chemical compounds and method for the operation thereof. No. 1,297,833; Mar. 18; v. 260; p. 511.
- Gow, Alexander M., Duluth, Minn. Dump-car. No. 1,290,735; Jan. 7; v. 258; p. 175.



## Alphabetical list of patentees—Continued.

- Gow, Alexander M., Duluth, Minn. Locking mechanism for dump-cars. No. 1,294,088; Feb. 11; v. 259; p. 290.
- Gow, Alexander M., Duluth, Minn. Ore-washer. No. 1,314,797; Sept. 2; v. 266; p. 61.
- Gow, Colin C., London, England. Maximum-demand controller and load-indicator for electric-power installations. No. 1,314,471; Aug. 26; v. 265; p. 580.
- Gowdey, Benjamin F., Englewood, N. J. Demountable rim. No. 1,318,274; Oct. 7; v. 267; p. 118.
- Gowdy, Robert C., Cincinnati, Ohio, assignor to the Government of the United States. Smoke-making compound for signal-rockets. No. 1,318,074; Oct. 7; v. 267; p. 79.
- Gowdy, Robert C., Cincinnati, Ohio, assignor to the Government of the United States. Smoke-making composition for signal-rockets. No. 1,319,329; Oct. 21; v. 267; p. 405.
- Gowdy, Robert C., Cincinnati, Ohio, assignor to the Government of the United States. Signal-rocket. No. 1,326,493; Dec. 30; v. 269; p. 774.
- Gowdy, Robert C., Cincinnati, Ohio, assignor to the Government of the United States. Signal-rocket. No. 1,326,494; Dec. 30; v. 269; p. 774.
- Grabe, Georg Nikolaassee, near Berlin, assignor to Siemens & Halske A.-G., Berlin, Germany. Telephone system. No. 1,303,655; May 13; v. 262; p. 248.
- Grabe, Georg, N. See, Berlin, F. Lubberger, Halensee, near Berlin, G. Frubing, Charlottenburg, near Berlin, Germany, and H. B. Ritter, Amsterdam, Netherlands, assignors to Siemens & Halske, A. G., Berlin, Germany. Semiautomatic telephone system. No. 1,323,265; Dec. 2; v. 269; p. 8.
- Grabe, Gustav L., Tompkinsville, N. Y. Washing device. No. 1,293,411; Feb. 4; v. 259; p. 102.
- Grabert, Gustave W., assignor of one-half to S. J. Miller, Mount Vernon, Ind. Grain-cleaner. No. 1,296,791; Mar. 11; v. 260; p. 255.
- Grabler, Peter, assignor to The Cleveland Flush Meter Company, Cleveland, Ohio. Valve mechanism. No. 1,320,465; Nov. 4; v. 268; p. 20.
- Grabler, Peter, Lakewood, and J. G. Phipps, assignors to The Youmans Machine Company, Cleveland, Ohio. Apparatus for mixing and dispensing heavy liquids. No. 1,323,361; Dec. 2; v. 269; p. 26.
- Grabowiecki, Joseph, Detroit, Mich. Vehicle-wheel. No. 1,305,535; June 3; v. 263; p. 57.
- Grabowiecki, Joseph, Detroit, Mich. Safety device for aeroplanes. No. 1,320,545; Nov. 4; v. 268; p. 36.
- Grabs, Virgil T., King, N. C. Hillside and roadside ditcher. No. 1,299,932; Apr. 8; v. 261; p. 327.
- Graca, Alexander S. (See Hasco and Graca.)
- Grace, Bertram B. (See Nash and Grace.)
- Grace, Charles J., Truro, England. Carbureter. No. 1,322,560; Nov. 25; v. 268; p. 581.
- Grace, Edwin B., Memphis, Tenn. Smoking-pipe. No. 1,304,475; May 20; v. 262; p. 440.
- Grace, Gordon B., Seattle, Wash. Combined pin and disk gage. No. 1,296,950; Mar. 11; v. 260; p. 292.
- Grace, Henry S., San Francisco, Cal. Resilient wheel-tire. No. 1,293,412; Feb. 4; v. 259; p. 102.
- Grace, Joseph R. (See Sullivan, Denis R., assignor.)
- Gracey, James G., assignor to Economic Propeller Company, St. Louis, Mo. Propeller and current-motor. No. 1,296,792; Mar. 11; v. 260; p. 255.
- Gracey, James G., assignor of one-half to E. C. Ganahl, St. Louis, Mo. Driving-gear for vehicles. No. 1,297,148; Mar. 11; v. 260; p. 336.
- Gracey, James G., assignor of one-half to E. C. Ganahl, St. Louis, Mo. Wind-motor. No. 1,319,766; Oct. 28; v. 267; p. 511.
- Gracey, James G., assignor of one-half to E. C. Ganahl, St. Louis, Mo. Water-motor. No. 1,319,767; Oct. 28; v. 267; p. 511.
- Gradolph, William F., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Pressure-regulator. No. 1,318,863; Oct. 14; v. 267; p. 290.
- Gradville, George, Havelock, Nebr. Thread-cutting die. No. 1,326,047; Dec. 23; v. 269; p. 653.
- Grady, George R., assignor of one-half to O. M. Wassing, Minneapolis, Minn. Direction-indicator for automobiles. No. 1,290,543; Jan. 7; v. 258; p. 128.
- Grady, Seymour, Palatka, Fla. Traction engine or vehicle. No. 1,294,791; Feb. 18; v. 259; p. 490.
- Graemiger, Benjamin, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co., Zurich, Switzerland. Device for balancing shafts. No. 1,296,180; Mar. 4; v. 260; p. 84.
- Graemiger, Benjamin, assignor to Firm of Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co., Zurich, Switzerland. Shaft for rotary compressors and pumps. No. 1,324,664; Dec. 9; v. 269; p. 317.
- Graf, Christopher, Charles City, Iowa, assignor to Graf Lens Corporation, South Bend, Ind. Lens. No. 1,293,086; Feb. 4; v. 259; p. 27.
- Graf, Fred, Jr. (See Gaisler, Fred, assignor.)
- Graf, Frederick, New York, N. Y. Emergency vehicle-brake. No. 1,303,553; May 13; v. 262; p. 229.
- Graf, Herman. (See Wolf and Graf.)
- Graf Lens Corporation. (See Graf, Christopher, assignor.)
- Graf, Max, New York, N. Y. Coal-hole cover. No. 1,312,395; Aug. 5; v. 265; p. 101.
- Graf, Sydney H., Humble, assignor to R. P. O'Brien, Lufkin, and W. E. Jones, Beaumont, Tex. Pump. No. 1,317,440; Sept. 30; v. 266; p. 657.
- Graf, Sydney H., Humble, Tex. Self-cleaning pump-valve. No. 1,317,441; Sept. 30; v. 266; p. 657.
- Graft, Edwin E., South Bend, Ind., assignor to The Studebaker Corporation. Vehicle-seat. No. 1,307,666; June 24; v. 263; p. 548.
- Grafton, William F., Glasgow, Scotland. Tensionometer. No. 1,306,891; June 17; v. 263; p. 375.
- Gragg, Benjamin F., assignor of one-half to J. R. Fisher, Louisville, Ky. Hose-coupling. No. 1,290,974; Jan. 14; v. 258; p. 256.
- Gragory, Vengard E., Adolphus, Ky. Automobile construction. No. 1,298,928; Apr. 1; v. 261; p. 72.
- Graham, Andrew W., Buffalo, N. Y. Ventilating garment shield or appliance. No. 1,317,489; Sept. 30; v. 266; p. 667.
- Graham, Andrew W., Buffalo, N. Y. Ventilating garment-shield. No. 1,317,490; Sept. 30; v. 266; p. 667.
- Graham, Andrew W., Buffalo, N. Y. Fountain shaving-brush. No. 1,321,907; Nov. 18; v. 268; p. 407.
- Graham, Archie H. (See Anderson and Graham.)
- Graham, Charles E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Scouring-roll. No. 1,326,495; Dec. 30; v. 269; p. 774.
- Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can. No. 1,306,809; June 17; v. 263; p. 359.
- Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Can-end and gasket assembling machine. (Reissue.) No. 14,708; Aug. 19; v. 265; p. 431.
- Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Applying gaskets or ring-liners. (Reissue.) No. 14,709; Aug. 19; v. 265; p. 432.
- Graham Copy-Holder Company, The. (See Graham, Elmer, assignor.)
- Graham, David F., Coudersport, Pa. Ball-bearing. No. 1,296,650; Mar. 11; v. 260; p. 223.
- Graham, Edinburgh, Aiken, S. C. Computing-scale. No. 1,294,089; Feb. 11; v. 259; p. 290.
- Graham, Edmund, and G. Bowman, Belfast, Ireland. Fluid-pressure jack. No. 1,323,688; Dec. 2; v. 269; p. 87.
- Graham, Elmer, assignor to The Graham Copy-Holder Company, Wray, Colo. Copy-holder. No. 1,313,812; Aug. 19; v. 265; p. 420.
- Graham, Frank A., Harbor Springs, Mich. Life-boat. No. 1,302,362; Apr. 29; v. 261; p. 913.
- Graham, Frank A., Harbor Springs, Mich. Distilling apparatus. No. 1,302,363; Apr. 29; v. 261; p. 913.
- Graham, George H., Jersey City, N. J. Printing mechanism. No. 1,308,628; July 1; v. 264; p. 114.
- Graham, Henry W. B., assignor to The Arnold-Creager Company, New London, Ohio. Apparatus for making bricks. No. 1,301,685; Apr. 22; v. 261; p. 754.
- Graham, Henry W. B., deceased; M. Graham, executrix; said inventor assignor to The Arnold-Creager Company, New London, Ohio. Brick-mold. No. 1,314,057; Aug. 26; v. 265; p. 500.
- Graham, Herbert J., Philadelphia, Pa. Universal joint. No. 1,315,604; Sept. 9; v. 266; p. 216.
- Graham, James H., assignor to Torrington Company, Torrington, Conn. Making spoke-nipples. No. 1,322,106; Nov. 18; v. 268; p. 443.
- Graham, James M., Maplewood, N. J., assignor to Elevator Supplies Company, Inc. Elevator-door closer. No. 1,309,130; July 8; v. 264; p. 236.
- Graham, John S., U. S. Navy. Steering apparatus for vessels. No. 1,295,732; Feb. 25; v. 259; p. 729.
- Graham, John W., Hinton, W. Va. Typographical or slug-casting machine. No. 1,298,492; Mar. 25; v. 260; p. 677.
- Graham, Lionel J., London, England. Sight and sighting guns. No. 1,294,445; Feb. 18; v. 259; p. 411.
- Graham, Margaret, executrix. (See Graham, Henry W. B.)
- Graham, Walter C., Hampton, Va. Window-cleaner. No. 1,305,278; June 3; v. 263; p. 9.
- Graham, William J., et al. (See Knoblock, William, assignor.)
- Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Agricultural implement. No. 1,290,174; Jan. 7; v. 258; p. 39.
- Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Gang-plow. No. 1,295,479; Feb. 25; v. 259; p. 670.
- Graham-Yooll, Frederick R., Leith, Scotland. Mouthpiece for feeding-bottles. No. 1,306,303; June 10; v. 263; p. 234.
- Grahn, Oscar, assignor to The Relay Automatic Telephone Company, Limited, London, England. Automatic and semi-automatic telephone system. No. 1,307,196; June 17; v. 263; p. 430.
- Grain, Jacob J., Grand Rapids, Wis. Grinding-wheel clamp. No. 1,300,161; Apr. 8; v. 261; p. 377.
- Grainger, James G., Centralia, Wash. Pallet setter-gage. No. 1,316,299; Sept. 16; v. 266; p. 358.



## Alphabetical list of patentees—Continued.

- Grammer, Allen L., assignor to Curtis Publishing Company, Philadelphia, Pa. Making signatures. No. 1,326,859; Dec. 30; v. 269; p. 843.
- Grammer, Allen L., assignor to Curtis Publishing Company, Philadelphia, Pa. Machine for making signatures. No. 1,326,860; Dec. 30; v. 269; p. 843.
- Gran, Otto G., Spring Grove, Minn. Spark-arrester. No. 1,291,840; Jan. 21; v. 258; p. 490.
- Granat, Elie, assignor of one-half to Benard-Barbier & Turenne, Paris, France. Search-light apparatus. No. 1,303,656; May 13; v. 262; p. 248.
- Granberg, Albert J., San Francisco, Calif. Pipe-wrench. No. 1,306,534; June 10; v. 263; p. 276.
- Granberg, Charles H., Dover, N. J. License-number-display device. No. 1,301,250; Apr. 22; v. 261; p. 670.
- Granberg, John G., Beckemeyer, Ill. Zinc-kettle. No. 1,298,692; Apr. 1; v. 261; p. 16.
- Granberry, Edgar H., Jacksonville, Ark. Excavating-machine. No. 1,308,351; July 1; v. 264; p. 63.
- Grand Detour Plow Company. (See Caughey, Robert C., assignor.)
- Grand Rapids Grinding Machine Company. (See De Konig, Jacob, assignor.)
- Grand Rapids Refrigerator Company. (See Whittier and Curran, assignors.)
- Grand Rapids Show Case Co. (See Reigersberg, Morris, assignor.)
- Grandmaison, Joseph, Brunswick, Me., assignor to Hope-dale Manufacturing Company, Milford, Mass. Automatic loom. No. 1,309,570; July 8; v. 264; p. 317.
- Grandy, Edward F., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Treadle-control mechanism. No. 1,290,175; Jan. 7; v. 258; p. 39.
- Grange, *née* Borel, Emilie. (See Borel and Grange, *née* Borel.)
- Grange, Emilie. (See Borel and Grange.)
- Granger, Bertha A. (See Granger Leo A. and B. A.)
- Granger, Danus D., New London, Ohio. Rubber heel. No. 1,314,393; Aug. 26; v. 265; p. 555.
- Granger, Francis, Greensburg, Pa. Vaporizer. No. 1,292,759; Jan. 28; v. 258; p. 734.
- Granger, Leo A. and B. A., Alameda, Calif. Concrete-post mold. No. 1,323,689; Dec. 2; v. 269; p. 87.
- Granichestädten, Emerich, Vienna, Austria. Manufacture of catalyzing agents of particular efficiency. No. 1,314,642; Sept. 2; v. 266; p. 32.
- Grannis, Laurence R., assignor of one-half to B. F. Hall, Chicago, Ill. Appliance for bathing infants. No. 1,296,075; Mar. 4; v. 260; p. 59.
- Grannis, William, Kewaunee, Wis. Can body and top. No. 1,312,626; Aug. 12; v. 265; p. 177.
- Grano, Luigi, assignor of one-half to A. Consoletti, New York, N. Y. Vegetable and fruit crusher and strainer. No. 1,323,750; Dec. 2; v. 269; p. 99.
- Gransaul, Eugene, New York, N. Y. Telephone attachment. No. 1,304,308; May 20; v. 262; p. 406.
- Grant, Albert C., Chicago, Ill., assignor to Grant Wire Wheel Manufacturing Company. Auto-wheel. No. 1,298,332; Mar. 25; v. 260; p. 642.
- Grant, Charles H., Freeport, N. Y. Horseshoe. No. 1,294,896; Feb. 18; v. 259; p. 514.
- Grant, Charles H., New York, N. Y. Toy aeroplane. No. 1,313,290; Aug. 19; v. 265; p. 322.
- Grant, Frank, Westfield, Mass. Holder for stick material. No. 1,306,179; June 10; v. 263; p. 209.
- Grant, Frederick C., Denver, Colo. Pedal attachment for automobiles. No. 1,292,760; Jan. 28; v. 258; p. 735.
- Grant, Frederick C., Chicago, Ill. Attachment for automobile-pedals. No. 1,310,186; July 15; v. 264; p. 467.
- Grant, George W., Lockport, N. Y. Moth and vermin proof garment-hanger. No. 1,295,480; Feb. 25; v. 259; p. 671.
- Grant, Henry F., Franklin, Pa. Manufacture of lubricating-oils. No. 1,303,292; May 13; v. 262; p. 182.
- Grant, Jesse R., Kokomo, Ind. Egg-candler. No. 1,310,750; July 22; v. 264; p. 602.
- Grant, Melville M., Alliance, Ohio. Draft device for furnaces. No. 1,312,319; Aug. 5; v. 265; p. 86.
- Grant, Reuben P., Manchester, N. H., assignor to W. H. McElwain Company. Counter-skiving machine. No. 1,309,407; July 8; v. 264; p. 286.
- Grant, Wilbur B., Elmhurst, N. Y. Hospital medicine-tray. No. 1,306,591; June 10; v. 263; p. 286.
- Grant Wire Wheel Manufacturing Company. (See Grant, Albert C., assignor.)
- Grantham, E. L., *et al.* (See Waller, Oen F., assignor.)
- Grantham, Frederick G., Kansas City, Mo. Submarine scouting apparatus. No. 1,324,961; Dec. 16; v. 269; p. 434.
- Grantland, John W., Cincinnati, Ohio. Compound valve. No. 1,305,715; June 3; v. 263; p. 92.
- Granville, Bernard, New York, N. Y. Apparatus for forming tire-molds. No. 1,299,456; Apr. 8; v. 261; p. 219.
- Granville, Harry, and F. Koch, Scranton, Pa. Stop mechanism for motion-picture machines. No. 1,318,203; Oct. 7; v. 267; p. 104.
- Grapho-Metal Products Company. (See Schlaegel, Albert H., assignor.)
- Graphoscope Company, The. (See Jenkins, Charles F., assignor.)
- Graphoscope Company. (See White, Joseph R., assignor.)
- Graser, Thomas T., Syracuse, N. Y. Kettle. No. 1,297,678; Mar. 18; v. 260; p. 477.
- Grass, Ernest, assignor to Eastman Kodak Company, Rochester, N. Y. Etching. No. 1,313,233; Aug. 12; v. 265; p. 296.
- Grass, Harry, Detroit, Mich. Bottle-washer brush. No. 1,306,478; June 10; v. 263; p. 267.
- Grassby, George A., Jr. (See La Bour and Grassby.)
- Grasselli Chemical Company, The. (See Lihme, lens P., assignor.)
- Grater, Katie, Sterling, Ill. Carpet-beating rack. No. 1,301,430; Apr. 22; v. 261; p. 705.
- Gratieux, Fernand. (See Hanriot and Gratieux.)
- Graton & Knight Manufacturing Company, The. (See Knoblock, Frederick B., assignor.)
- Gratsch, Marvin A., Cincinnati, Ohio. Machine for applying strap-ferrules. No. 1,311,556; July 29; v. 264; p. 785.
- Grau, Roxie P., New Orleans, La. Elbow-shield. No. 1,304,558; May 27; v. 262; p. 494.
- Graul, Otto, G. Hanschke, Ludwigshafen-on-the-Rhine, and F. Webel, Mannheim, Germany, assignors, by mesne assignments, to Alien Property Custodian. Producing isoprene. No. 1,298,929; Apr. 1; v. 261; p. 72.
- Graul, Walter L., Detroit, Mich., assignor to Somet-Solvay Company, Solvay, N. Y. Regulating the quality of coke. No. 1,308,754; July 8; v. 264; p. 165.
- Graumann, Edward and J. Granite, Okla. Ant-killing machine. No. 1,290,544; Jan. 7; v. 258; p. 128.
- Graumann, John. (See Graumann, Edward and J.)
- Graumann, John, Granite, Okla. Calif. weaner. No. 1,294,897; Feb. 18; v. 259; p. 515.
- Graumann, John, Granite, Okla. Bomb. No. 1,326,258; Dec. 30; v. 269; p. 730.
- Gravel, Abundius, Toledo, Ohio. Door-retainer. No. 1,292,310; Jan. 21; v. 258; p. 606.
- Gravel, David, Chattanooga, Tenn. Apparatus for singeing yarn. No. 1,325,891; Dec. 23; v. 269; p. 625.
- Gravell, James H., New York, N. Y. Preventing steel from rusting. No. 1,315,017; Sept. 2; v. 266; p. 100.
- Gravell, James H., Brooklyn, N. Y., assignor to Thomson Spot Welder Company, Boston, Mass. Securing together heavy steel plates. No. 1,296,651; Mar. 11; v. 260; p. 223.
- Gravell, James H., Brooklyn, N. Y., assignor to Thomson Electric Welding Company, Lynn, Mass. Electric welding apparatus. No. 1,300,603; Apr. 15; v. 261; p. 497.
- Gravell, James H., Brooklyn, N. Y., assignor to Thomson Electric Welding Company, Lynn, Mass. Electric welding apparatus. No. 1,308,778; July 8; v. 264; p. 169.
- Gravell, James H., Brooklyn, N. Y., assignor to Thomson Electric Welding Company, Lynn, Mass. Welding thin plates. No. 1,308,781; July 8; v. 264; p. 170.
- Gravell, James H., Brooklyn, N. Y., assignor to Thomson Electric Welding Company, Lynn, Mass. Transformer-secondary. No. 1,308,782; July 8; v. 264; p. 170.
- Gravell, James H., Brooklyn, N. Y., assignor to Thomson Spot Welder Company, Boston, Mass. Electric welding. No. 1,312,844; Aug. 12; v. 265; p. 219.
- Gravell, James H., Brooklyn, N. Y., assignor to Thomson Electric Welding Company, Lynn, Mass. Automatic switching device for electric metal-working apparatus. No. 1,314,515; Sept. 2; v. 266; p. 7.
- Gravell, James H., Philadelphia, Pa., assignor to Thomson Spot Welder Company, Boston, Mass. Electric welding machine. No. 1,312,845; Aug. 12; v. 265; p. 219.
- Gravelly, Julian S., assignor to Winchester Repeating Arms Co., New Haven Conn. Shot-shell. No. 1,304,962; May 27; v. 262; p. 569.
- Gravelly, Julian S., assignor to Winchester Repeating Arms Co., New Haven, Conn. Shot-shell. No. 1,320,754; Nov. 4; v. 268; p. 74.
- Gravelly, Julian S., assignor to Winchester Repeating Arms Co., New Haven, Conn. Purifying manganese dioxides. No. 1,323,690; Dec. 2; v. 269; p. 87.
- Graver, Philip S., Chicago, Ill. Punching-machine. No. 1,301,931; Apr. 29; v. 261; p. 832.
- Graves, Albert H. (See McBean, Duncan D., assignor.)
- Graves, Clarence L., Eland, Wis. Sawmill. No. 1,301,251; Apr. 22; v. 261; p. 670.
- Graves, Edward A., Jamestown, N. Y. Pants and shirt grip. No. 1,321,735; Nov. 11; v. 268; p. 324.
- Graves, Edwin B. (See Cady, Ulysses G., assignor.)
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Core-tramping machine. No. 1,304,559; May 27; v. 262; p. 494.
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Ejecting mechanism for core-making machines. No. 1,305,279; June 3; v. 263; p. 10.
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Single-lever locking-clamp. No. 1,306,426; June 10; v. 263; p. 257.
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Foot-operated ejecting mechanism for core-tramping machines. No. 1,319,863; Oct. 28; v. 267; p. 530.
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Can-heading tool. No. 1,324,447; Dec. 9; v. 269; p. 276.



- Graves, John S., Kansas City, Mo. Automatic stereopticon-machine. No. 1,309,358; July 8; v. 264; p. 277.
- Graves, McDowell, assignor, by mesne assignments, to R. A. Dalluge, Los Angeles, Calif. Vending-machine. No. 1,310,988; July 22; v. 264; p. 645.
- Graves, McDowell, assignor, by mesne assignments, to R. A. Dalluge, Los Angeles, Calif. Coin-controlled mechanism for vending-machines. No. 1,310,989; July 22; v. 264; p. 645.
- Graves, Randal, assignor to Independent Heating Company, Pittsburgh, Pa. Heating device. No. 1,324,502; Dec. 9; v. 269; p. 287.
- Gravis, James C., Laredo, Tex. Derailer. No. 1,301,556; Apr. 22; v. 261; p. 728.
- Gravity Carbureter Company, The. (See Costa, Anthony, assignor.)
- Gravity Pump and Power Co. (See Dayton, William L., assignor.)
- Grawitz, Alexis. (See Paban, Henri, assignor.)
- Gray, Alanson M., Elizabeth, N. J. Chill-plate. No. 1,296,652; Mar. 11; v. 260; p. 223.
- Gray, Alanson M., Elizabeth, N. J. Chill-plate. No. 1,322,897; Nov. 25; v. 268; p. 643.
- Gray, Albert, Cardiff, assignor of one-third to J. Gaskell and one-third to W. T. Wilkes, county of Glamorgan, Wales. Gaseous-fuel heater. No. 1,293,413; Feb. 4; v. 259; p. 102.
- Gray, Bertram P., Sutton Coalfield, England. Means for roughing horses and mules. No. 1,304,873; May 27; v. 262; p. 552.
- Gray, Bertram P., Sutton Coldfield, England. Hoof-pad for horseshoes. No. 1,320,000; Oct. 28; v. 267; p. 555.
- Gray, Budd D., Philadelphia, Pa. Means for centering rings on arbors, &c. No. 1,316,709; Sept. 23; v. 266; p. 485.
- Gray, Budd D., and E. W. Rubencame, Jr., Philadelphia, Pa., assignors to The Hess-Bright Manufacturing Company. Heating-furnace. No. 1,321,098; Nov. 11; v. 268; p. 203.
- Gray, Budd D., Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company. Device for securing parts to their supports. No. 1,294,792; Feb. 18; v. 259; p. 490.
- Gray, Carl C., Waynesfield, Ohio. Conveying mechanism. No. 1,292,761; Jan. 28; v. 258; p. 735.
- Gray, Charles B., Knoxville, Tenn. Machine for cutting sheet metal. No. 1,298,930; Apr. 1; v. 261; p. 72.
- Gray, Charles B., Knoxville, Tenn. Machine for cutting sheet-form material. No. 1,313,481; Aug. 19; v. 265; p. 358.
- Gray, Charles B., Knoxville, Tenn. Power-transmitting mechanism. No. 1,314,867; Sept. 2; v. 266; p. 72.
- Gray, Charles W., et al. (See Chilcott, William R., assignor.)
- Gray, Clarice E., Hamilton, New South Wales, Australia. Railway-switch oiling and cleaning means. No. 1,298,931; Apr. 1; v. 261; p. 73.
- Gray, Clinton, assignor of one-fourth to M. K. Boyajian, one-fourth to E. Boyajian, and one-fourth to E. Gray, Atlantic City, N. J. Parachute for aeroplanes. No. 1,324,392; Dec. 9; v. 269; p. 265.
- Gray, Clinton, assignor of one-fourth to M. K. Boyajian, one-fourth to E. Boyajian, and one-fourth to E. Gray, Atlantic City, N. J. Aeroplane. No. 1,324,393; Dec. 9; v. 269; p. 266.
- Gray, Cornelius, Walsall, England. Stair-carpet fastener. No. 1,300,214; Apr. 8; v. 261; p. 388.
- Gray, David E., assignor to Railway Utility Company, Chicago, Ill. Contractor. No. 1,299,457; Apr. 8; v. 261; p. 220.
- Gray & Davis. (See Moses, William B., assignor.)
- Gray & Davis Inc. (See Tichenor, Carl M., assignor.)
- Gray, Edwin T., assignor of one-half to Askewetz Brothers, New York, N. Y. Hospital-screen. No. 1,300,722; Apr. 15; v. 261; p. 522.
- Gray, Elizabeth, et al. (See Gray, Clinton, assignor.)
- Gray, Elmer E., Quincy, Mass. Machine for moistening envelopes. No. 1,326,496; Dec. 30; v. 269; p. 774.
- Gray, Elmer O., and N. E. Parks, Colebrook, N. H. Spring traction-wheel. No. 1,295,733; Feb. 25; v. 259; p. 730.
- Gray, Emmet P., Detroit, Mich. Muffler-valve. No. 1,299,326; Apr. 1; v. 261; p. 161.
- Gray, Gardner B., deceased; H. F. Gray, executrix, assignor, by mesne assignments, to A. G. Williamson, trustee, Pittsburgh, Pa. Power-actuated system of traffic control. No. 1,306,759; June 17; v. 263; p. 350.
- Gray, George M., Melrose, Mass. Signal-lantern. No. 1,304,560; May 27; v. 262; p. 495.
- Gray, Harry M., Los Angeles, Calif. Reusing previously-used soapsuds. No. 1,312,477; Aug. 5; v. 265; p. 117.
- Gray, Helen F., executrix. (See Gray, Gardner B.)
- Gray, Howard A., Godfrey, Ill. Pontoon dry-dock. No. 1,300,954; Apr. 15; v. 261; p. 571.
- Gray, Isaac C., La Fayette, Ind. Hinge. No. 1,294,793; Feb. 18; v. 259; p. 491.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Apparatus for re-forming can-bodies and uniting can ends to the same. No. 1,299,169; Apr. 1; v. 261; p. 126.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Can-end-liner cutting and assembling machine. No. 1,299,170; Apr. 1; v. 261; p. 126.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Apparatus for re-forming can-bodies. No. 1,306,810; June 17; v. 263; p. 360.
- Gray, James A., San Francisco, Calif., assignor to American Can Company. Can-end-sorting apparatus. No. 1,306,811; June 17; v. 263; p. 360.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Can-end-sorting apparatus. No. 1,308,063; July 1; v. 264; p. 10.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Apparatus for forming and flanging can-bodies. No. 1,315,114; Sept. 2; v. 266; p. 117.
- Gray, James G. (See Gray, John and J. G.)
- Gray, James H., New York, N. Y. Electric furnace. No. 1,313,890; Aug. 26; v. 265; p. 468.
- Gray, John, London, England, and J. G. Gray, Glasgow, Scotland. Gyroscopic apparatus. No. 1,308,783; July 8; v. 264; p. 170.
- Gray, John, London, England, and J. G. Gray, Glasgow, Scotland. Gyroscopic apparatus. No. 1,310,862; July 22; v. 264; p. 622.
- Gray, John, London, England, and J. G. Gray, Glasgow, Scotland. Gyrostatic apparatus. No. 1,311,768; July 29; v. 264; p. 823.
- Gray, John, London, England, and J. G. Gray, Glasgow, Scotland. Gyrostatic apparatus. No. 1,313,532; Aug. 19; v. 265; p. 368.
- Gray, Lester L., Warren, Ill. Computing weighing-scale. No. 1,320,853; Nov. 4; v. 268; p. 93.
- Gray, Lorenzo L., Northfield, Ohio. Music-chart. No. 1,295,025; Feb. 18; v. 259; p. 543.
- Gray, Mathias K., Odessa, Oreg. Artificial fish-bait. No. 1,299,703; Apr. 8; v. 261; p. 275.
- Gray, Matthias K., San Francisco, Calif. Artificial fish-bait. No. 1,314,868; Sept. 2; v. 266; p. 73.
- Gray National Telautograph Company. (See Tiffany, George S., assignor.)
- Gray, Rose A., Beloit, Kans. Safety mailing-case. No. 1,314,869; Sept. 2; v. 266; p. 73.
- Gray, Thomas F., Peekskill, N. Y. Skeleton hull for sea-going vessels. No. 1,297,558; Mar. 18; v. 260; p. 452.
- Gray, William B., Louisville, Ky. Conduit. No. 1,313,179; Aug. 12; v. 265; p. 285.
- Gray, William L., Champaign, Ill. Combined tissue and needle-extracting forceps. No. 1,292,455; Jan. 28; v. 258; p. 661.
- Gray, William R. (See Hollenbeck and Gray.)
- Gray, Winfield H., assignor to B. A. Hurd, Portsmouth, N. H., and E. J. Gihon, Wakefield, Mass., trustees. Tool adjustable in taper. No. 1,309,571; July 8; v. 264; p. 317.
- Graybeal, Winfield A., Lansing, N. C. Buggy-shaft support. No. 1,307,252; June 17; v. 263; p. 440.
- Graybeal, Winfield A., Lansing, N. C. Fire-screen. No. 1,307,817; June 24; v. 263; p. 576.
- Grazier, Doré W., Johnstown, Pa. Electric lamp. No. 1,318,377; Oct. 14; v. 267; p. 198.
- Grazier, Durbin H., Johnstown, Pa. Box-opener. No. 1,291,841; Jan. 21; v. 258; p. 490.
- Grear, David M., Chicago, Ill. Coal-car cover. No. 1,291,481; Jan. 14; v. 258; p. 374.
- Great Northern Paper Company. (See Pope, Charles E., assignor.)
- Greathouse, Fleming E., Terryton, Kans. Cultivator. No. 1,301,557; Apr. 22; v. 261; p. 728.
- Greaves, Abilio M. de S., Cambridge, Mass. Thermostatic circuit-closer. No. 1,291,842; Jan. 21; v. 258; p. 490.
- Greaves, Henry A., and H. Etchells, Sheffield, England. Electric furnace. No. 1,301,932; Apr. 29; v. 261; p. 832.
- Greaves, Henry A., and H. Etchells, Sheffield, England. Electric furnace. No. 1,302,788; May 6; v. 262; p. 58.
- Greaves, Walter, Alameda, Cal. Fountain-pen. No. 1,290,545; Jan. 7; v. 258; p. 128.
- Greb, William J., Easton, Pa. Air-brake signal. No. 1,325,288; Dec. 16; v. 269; p. 496.
- Grebe, Albert, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Draw-in periscope. No. 1,298,333; Mar. 25; v. 260; p. 642.
- Grebe, Albert, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Telescope-prism mounting. No. 1,308,283; July 1; v. 264; p. 51.
- Greibenstein, Charles, Brooklyn, N. Y. Runner attachment for wheeled vehicles. No. 1,326,724; Dec. 30; v. 269; p. 817.
- Greco, Joseph, assignor of one-half to H. E. Augenthaler, New York, N. Y. Releasing-penholder. No. 1,309,475; July 8; v. 264; p. 299.
- Greeley, Earl R., assignor to Pierce, Butler & Pierce Manufacturing Corporation, Syracuse, N. Y. Heater. No. 1,308,669; July 1; v. 264; p. 121.
- Greeley, George E., Hudson, Mass. Manufacturing shoes. No. 1,304,476; May 20; v. 262; p. 440.
- Green, Arthur, Coventry, England. Coöperating V-screw-threaded element. No. 1,325,669; Dec. 23; v. 269; p. 583.



## Alphabetical list of patentees—Continued.

- Green, Arthur B., Portland, Me. Apparatus for measuring the viscosity of paper-stock. No. 1,321,736; Nov. 11; v. 268; p. 324.
- Green, Arthur G., Leeds, England. Manufacture of plicric acid. No. 1,299,171; Apr. 1; v. 261; p. 127.
- Green, Austin E., Easton, Me. Automobile-drive. No. 1,293,757; Feb. 11; v. 259; p. 212.
- Green, Bessie M., administratrix. (See Green, Frank C.)
- Green, Charles J., Olean, N. Y. Carpet and rug beater. No. 1,294,090; Feb. 11; v. 259; p. 291.
- Green, Charles L., San Bernardino, Calif. Tractor-drive. No. 1,314,077; Aug. 26; v. 265; p. 504.
- Green, Charles W., Peoria, Ill. Internal-combustion engine. No. 1,295,026; Feb. 18; v. 259; p. 543.
- Green, Ella S., Trenton, N. J. Auxiliary stove-lid. No. 1,326,048; Dec. 23; v. 269; p. 653.
- Green Engineering Company. (See Marsh, Thomas A., assignor.)
- Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
- Green Engineering Company. (See Poppenhusen and Strong, assignors.)
- Green Engineering Company. (See Strong, Arthur P., assignor.)
- Green, Frank C., deceased, by B. M. Green, administratrix, Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,326,049; Dec. 23; v. 269; p. 654.
- Green, Frederick M., assignor to Siddeley-Deasy Motor Car Company Limited, Parkside, Coventry, England. Landing-chassis. No. 1,298,038; Mar. 25; v. 260; p. 580.
- Green, Furney F., Coalgate, Okla. Tire. No. 1,308,846; July 8; v. 264; p. 182.
- Green, Gordon C., Swift Current, Saskatchewan, Canada. Corset-fastener. No. 1,307,667; June 24; v. 263; p. 548.
- Green, Gustave A. (See Compton, Ness, Gausewitz, and Green.)
- Green, Harold J., Auckland, New Zealand. Penholder. No. 1,292,762; Jan. 28; v. 258; p. 735.
- Green, Harry E., St. John, New Brunswick, Canada. Toy. No. 1,306,592; June 10; v. 263; p. 287.
- Green, Henry W. (See Le Lempt and Green.)
- Green, Irving A., Worcester, Mass., assignor to Wire Goods Company. Extension strainer-holder. No. 1,304,762; May 27; v. 262; p. 532.
- Green, James M., Chicago, Ill. Machine for photographic lighting. No. 1,321,521; Nov. 11; v. 268; p. 283.
- Green, James W., Portland, Oreg. Rotary gas-engine. No. 1,305,966; June 3; v. 263; p. 140.
- Green, James W., Portland, Oreg. Rotary gas-engine. No. 1,308,352; July 1; v. 264; p. 63.
- Green, John C., Onaka, S. D. Combination form and sheet for bookkeeping-machines. No. 1,324,665; Dec. 9; v. 269; p. 318.
- Green, John C., Palmer, assignor to Draper Corporation, Hopedale, Mass. Clamping device for heddle bars or supports. No. 1,314,798; Sept. 2; v. 266; p. 61.
- Green, John R., Dalhart, Tex. Tail-end light for automobiles. No. 1,311,345; July 29; v. 264; p. 745.
- Green, Joseph R., Wakefield, assignor to The Phonograph Company, East Boston, Mass. Keyed zither. No. 1,299,704; Apr. 8; v. 261; p. 276.
- Green, Laura I. (See Thompson, Mary E., assignor.)
- Green, Leonard M., Perth Amboy, N. J., assignor to Chilo Exploration Company, New York, N. Y. Valve. No. 1,291,843; Jan. 21; v. 258; p. 491.
- Green, Morgan A., Rupert, Idaho. Beet-harvester. No. 1,300,955; Apr. 15; v. 261; p. 572.
- Green, Morgan A., Rupert, Idaho. Beet-topper. No. 1,321,737; Nov. 11; v. 268; p. 324.
- Green, Oscar D. (See Grotjohann and Green.)
- Green, Teddy A., assignor to Metal Auto Parts Company, Indianapolis, Ind. Hinge construction for automobile-hoods. No. 1,319,152; Oct. 21; v. 267; p. 372.
- Green, Thomas L., Indianapolis, Ind. Biscuit-cutting machine. No. 1,291,844; Jan. 21; v. 258; p. 491.
- Green, Thomas L., Indianapolis, Ind. Biscuit cutting and embossing machine. No. 1,292,311; Jan. 21; v. 258; p. 606.
- Green, Thomas L., Indianapolis, Ind. Cake-hanger. No. 1,304,309; May 20; v. 262; p. 407.
- Green, Thomas L., and C. H. Williams, Indianapolis, Ind. Mechanical movement. No. 1,291,845; Jan. 21; v. 258; p. 491.
- Green, Walter H., Chicago, Ill. Water-softener. No. 1,321,622; Nov. 11; v. 268; p. 302.
- Green, Walter R., Chicago, Ill. Bumper. No. 1,311,557; July 29; v. 264; p. 785.
- Green, Walter T., Galesburg, Ill. Cigar-bunch-making machine. No. 1,302,153; Apr. 29; v. 261; p. 873.
- Greenbaum, Alexander L. (See Ford, Richardson, Greenbaum, and Priest.)
- Greenamyre, Clarence V., Los Angeles, Calif. Boring-bar for lathes. No. 1,319,664; Oct. 21; v. 267; p. 469.
- Greenawalt, John E., New York, N. Y. Magnetic separator. No. 1,324,149; Dec. 9; v. 269; p. 218.
- Greenawalt, William E., Denver, Colo. Electrolytic process. No. 1,314,742; Sept. 2; v. 266; p. 50.
- Greenberg, Israel, Baltimore, Md. Pneumatic tire. No. 1,304,177; May 20; v. 262; p. 381.
- Greenberg, Jesse C., Peoria, Ill. Attachment for bathtubs. No. 1,290,736; Jan. 7; v. 258; p. 175.
- Greenberg, Louis, Indianapolis, Ind. Mechanical movement. No. 1,317,365; Sept. 30; v. 266; p. 643.
- Greenberg, Max, Cleveland, Ohio. Safeguard for vessels. No. 1,318,142; Oct. 7; v. 267; p. 91.
- Greenbowe, James W., Weehawken, N. J. Fibrous ink-eraser. No. 1,317,972; Oct. 7; v. 267; p. 59.
- Greene, Albert E., Seattle, Wash. Electric furnace. No. 1,297,149; Mar. 11; v. 260; p. 336.
- Greene, Andrew S., Whitman, Mass. Heading device. No. 1,294,091; Feb. 11; v. 259; p. 291.
- Greene, Arthur S., North Milwaukee, Wis. Concrete-mold. No. 1,324,811; Dec. 16; v. 269; p. 407.
- Greene, Benjamin F., Pittsburgh, Pa. Drop-molding attachment for machines. No. 1,299,327; Apr. 1; v. 261; p. 161.
- Greene, Charles A., Wilmington, Calif. Invalid-lifter. No. 1,299,933; Apr. 8; v. 261; p. 327.
- Greene, Charles E., Hastings, Fla. Lock-nut washer. No. 1,301,049; Apr. 15; v. 261; p. 593.
- Greene, Holdridge G., assignor to Triumph Trap Co., Oneida, N. Y. Spring-trap. No. 1,312,690; Aug. 12; v. 265; p. 188.
- Greene, Holdridge G., and F. E. Adams, assignors to Triumph Trap Co., Inc., Oneida, N. Y. Trap. No. 1,307,582; June 24; v. 263; p. 534.
- Greene, James G., and L. F. A. Buchner, deceased, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. (Reissue.) No. 14,608; Mar. 11; v. 260; p. 371.
- Greene, John A., Atascadero, Calif. Combined andirons, radiator, and ventilator. No. 1,313,085; Aug. 12; v. 265; p. 267.
- Greene, R. A. and W. G. (See Greene, William S., assignor.)
- Greene, Richard A., Brooklyn, N. Y., assignor to Jabez Burns & Sons. Nut-mill. No. 1,290,975; Jan. 14; v. 258; p. 256.
- Greene, Richard A., Brooklyn, N. Y., assignor to Jabez Burns & Sons. Mill. No. 1,290,976; Jan. 14; v. 258; p. 256.
- Greene, Saunders T., Dallas, Tex. Measuring-tool. No. 1,290,977; Jan. 14; v. 258; p. 257.
- Greene, Willard B., Boston, assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,306,535; June 10; v. 263; p. 276.
- Greene, William M., Troy, N. Y. Belt. No. 1,324,043; Dec. 9; v. 269; p. 198.
- Greene, William S., assignor to R. A. and W. G. Greene, Providence, R. I. Lingerie-clasp. No. 1,325,399; Dec. 16; v. 269; p. 516.
- Greenewald, Eugene L., Wilkinsburg, Pa. Can and the like. No. 1,320,466; Nov. 4; v. 268; p. 21.
- Greenfield, Albert, Chicago, Ill. Billiard-cue. No. 1,296,285; Mar. 4; v. 260; p. 107.
- Greenfield, Edwin T., Kiamasha, and J. G. V. Lang, New York, assignors to Greenfield Paper Bottle Company, New York, N. Y. Manufacturer of paper bottles. No. 1,310,117; July 15; v. 264; p. 454.
- Greenfield, Edwin T., Kiamasha, and J. G. V. Lang, New York, assignors to Greenfield Paper Bottle Company, New York, N. Y. Expanding rings by internal pressure. No. 1,310,118; July 15; v. 264; p. 454.
- Greenfield, Isidore and S., New York, N. Y. Face and ear shield. No. 1,291,846; Jan. 21; v. 258; p. 491.
- Greenfield Paper Bottle Company. (See Gelertsen, Otto E., assignor.)
- Greenfield Paper Bottle Company. (See Greenfield and Lang, assignors.)
- Greenfield, Samuel. (See Greenfield, Isidore and S.)
- Greenfield, Samuel S., Fairport, N. Y. Fluid transmission mechanism. No. 1,297,347; Mar. 18; v. 260; p. 408.
- Greenfield, Simon, New York, N. Y. Fountain-pen. No. 1,300,379; Apr. 15; v. 261; p. 450.
- Greenfield Tap and Die Corporation. (See Butler, Benjamin F., assignor.)
- Greenfield Tap and Die Corporation. (See Cook, Wallace A., assignor.)
- Greenfield Tap and Die Corporation. (See Wells, Frank O., assignor.)
- Greenleaf, Edward N., and G. T. Hansen, Salt Lake City, Utah, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Granulator. No. 1,309,800; July 15; v. 264; p. 396.
- Greenleaf, George E. (See Keefer and Greenleaf.)
- Greenleaf, George E., and H. L. Blood, Plainfield, assignors to Niles-Bement-Pond Company, Jersey City, N. J. Planer. No. 1,321,203; Nov. 11; v. 268; p. 223.
- Greenleaf, Joseph, assignor to Nunnally & McCrea Co., Atlanta, Ga. Garment. No. 1,326,446; Dec. 30; v. 269; p. 765.
- Greenleaf, Robert P. (See Billings and Greenleaf.)
- Greenleaf, Robert P., assignor to F. Billings, Cleveland, Ohio. Loading-machine. No. 1,297,150; Mar. 11; v. 260; p. 336.
- Greenlee, George. (See Ringling and Greenlee.)
- Greenlee, George, assignor to National Wire Wheel Works, Geneva, N. Y. Wire-spoked wheel. No. 1,302,467; Apr. 29; v. 261; p. 934.



- Greenlee, James A., Chicago, Ill., and H. Wegwart, Burlington, Wis., assignors to The G & W Package Company, Chicago, Ill. Shipping-basket. No. 1,294,092; Feb. 11; v. 259; p. 291.
- Greenlee, James A., Chicago, Ill., and H. Wegwart, Burlington, Wis., assignors to The G & W Package Company, Chicago, Ill. Basket. No. 1,294,093; Feb. 11; v. 259; p. 291.
- Greenlee, Warren R., Pasadena, Calif. Method of and system for pumping. No. 1,310,615; July 22; v. 264; p. 577.
- Greenlee, Warren R., Pasadena, Calif. Well equipment. No. 1,312,442; Aug. 5; v. 265; p. 111.
- Greenough, Warren E., and S. B. Davis, Spokane, Wash., and A. Kragtorp, Mullan, Idaho; said Davis and said Kragtorp assignors to said Greenough. Mine-hoisting apparatus. No. 1,317,366; Sept. 30; v. 266; p. 643.
- Greenstreet, Charles J., Webster Groves, Mo., assignor to Gasoline Corporation, New York, N. Y. Treating mineral oils. No. 1,299,172; Apr. 1; v. 261; p. 127.
- Greenstreet, Jason H., Indianapolis, Ind., assignor, by mesne assignments, to C. F. Yegge, trustee, Evanston, Ill. Box-blank machine. No. 1,291,482; Jan. 14; v. 258; p. 374.
- Greenstreet, Jason H., Indianapolis, Ind., assignor, by mesne assignments, to Wirebounds Corporation. Box-machine. No. 1,325,718; Dec. 23; v. 269; p. 592.
- Greenstreet, Jason H., Indianapolis, Ind., assignor, by mesne assignments, to Wirebounds Corporation. Box-blank machine. No. 1,325,719; Dec. 23; v. 269; p. 593.
- Greenstreet, Milfred L., assignor to Blokar Manufacturing Company, Maplewood, Mo. Rolling toy. No. 1,312,174; Aug. 5; v. 265; p. 60.
- Greenstreet, Milfred L., assignor of one-third to A. G. Hoppock and one-third to J. H. Wright, Joplin, Mo. Child's building-blocks. No. 1,294,446; Feb. 18; v. 259; p. 411.
- Greenstreet, Milfred L., and S. F. Lumm, assignors to G. L. Time Switch Company, Lebanon, Mo. Intermittent train mechanism. No. 1,299,328; Apr. 1; v. 261; p. 162.
- Greenstreet, Oliver P., Baxter Springs, Kans., assignor to Oklahoma Zinc Products Co., Quapaw, Okla. Lunch-bucket. No. 1,324,891; Dec. 16; v. 269; p. 421.
- Greenstreet, Oliver P., Baxter Springs, Kans., assignor to Oklahoma Zinc Products Co., Quapaw, Okla. Soldering flux. No. 1,324,892; Dec. 16; v. 269; p. 421.
- Greenwald, Jake. (See Phillips and Greenwald.)
- Greenwald, Louis, Woodlawn, Pa. Umbrella. No. 1,320,327; Oct. 28; v. 267; p. 616.
- Greenwalt, Leonard, Antioch, Nebr. Gun-sight. No. 1,311,963; Aug. 5; v. 265; p. 21.
- Greenwell, Hilary J., Belmont, Ky. Shield for grain-sacks. No. 1,322,167; Nov. 18; v. 268; p. 454.
- Greenwood, Fred H., assignor to Barber-Colman Company, Rockford, Ill. Automatic hobbing-machine. No. 1,304,874; May 27; v. 262; p. 553.
- Greenwood, Guyon F., Georgeville, Quebec, Canada. Method of and apparatus for extracting sugar from cane, &c. No. 1,299,458; Apr. 8; v. 261; p. 220.
- Greenwood, Guyon F., Georgeville, Quebec, Canada. Expanded-metal railway or track. No. 1,308,177; July 1; v. 264; p. 31.
- Greenwood, Harold C., Putney, London, England. Synthetic production of ammonia. No. 1,312,534; Aug. 12; v. 265; p. 158.
- Greenwood, Harry. (See Baron and Greenwood.)
- Greer, Erwin. (See Langdon, Jesse D. and M. V. B., assignors.)
- Greer, George T. (See Fontaine and Greer.)
- Greer, James K., Paris, Mo. Ring cutting and sizing machine. No. 1,324,666; Dec. 9; v. 269; p. 318.
- Greer, Jesse W., Cambridge, Mass. Conveyer. No. 1,321,520; Nov. 11; v. 268; p. 283.
- Greeves, Thomas J., Portadown, Ireland. Transparent flexible material or sheet applicable for aeroplane-wings and other purposes. No. 1,323,979; Dec. 2; v. 269; p. 142.
- Gregersen, William, St. Andrews Parish, S. C. Surf or wave motor. No. 1,307,095; June 17; v. 263; p. 412.
- Gregg, Arthur. (See Crompton, Samuel, assignor.)
- Gregg, Arthur. (See Tyrie and Gregg.)
- Gregg Company, The. (See Gregg, Louis D., assignor.)
- Gregg Company, The. (See Gregg, William B., assignor.)
- Gregg, George A., et al. (See Simms, Joseph A., assignor.)
- Gregg, Harriet L., Narberth, Pa. Blacking container and applicator. No. 1,321,738; Nov. 11; v. 268; p. 324.
- Gregg, James H., et al. (See Simms, Joseph A., assignor.)
- Gregg, Louis D., assignor to The Gregg Company, Limited, Hackensack, N. J. Dump-car. No. 1,298,039; Mar. 25; v. 260; p. 581.
- Gregg, Louis D., Hackensack, N. J., assignor to The Gregg Company, Limited, Newburgh, N. Y. Support and lock for gates. No. 1,318,550; Oct. 14; v. 267; p. 231.
- Gregg, Norris B., et al. (See Sabin, William W., assignor.) (Reissue.)
- Gregg, Walter M. (See Eastman and Gregg.)
- Gregg, William B., assignor to The Gregg Company, Limited, Hackensack, N. J. Side-dump-door latch for car and other doors. No. 1,291,847; Jan. 21; v. 258; p. 491.
- Gregg, William B., assignor to The Gregg Company, Limited, Hackensack, N. J. Car-door fastening. No. 1,308,779; July 8; v. 264; p. 169.
- Gregg, William C., Summerville, S. C. Propeller for ships. No. 1,306,892; June 17; v. 263; p. 375.
- Gregor, August W., Meriden, Conn., and T. H. French, assignors, by mesne assignments, to The Mantle Lamp Company of America, Chicago, Ill. Lamp-burner. No. 1,312,478; Aug. 5; v. 265; p. 118.
- Gregor, Jerry, Garfield, N. J. Smoker's utensil. No. 1,301,933; Apr. 29; v. 261; p. 832.
- Gregorovius, Ferdinand, West Hoboken, N. J. Bank. No. 1,325,197; Dec. 16; v. 269; p. 479.
- Gregory, Carl, Petaluma, Calif. Tractor. No. 1,307,904; June 24; v. 263; p. 592.
- Gregory, Carl W., Petaluma, Calif. Lug-plate. No. 1,315,299; Sept. 9; v. 266; p. 161.
- Gregory, Charley H. (See Gregory, Luther A. and C. H.)
- Gregory, George P., Boston, Mass. Gage. No. 1,307,546; June 24; v. 263; p. 528.
- Gregory, Luther A. and C. H., Edenwold, Tenn. Planter attachment for plows and cultivators. No. 1,290,978; Jan. 14; v. 258; p. 257.
- Gregory, Morton, Tacoma, Wash., assignor to Western Rubber Company. Rubber substitute and producing the same. No. 1,321,788; Nov. 11; v. 268; p. 334.
- Gregory, Ralph, Kansas City, Mo., assignor to Oil Well Reclamation Company, Chicago, Ill. Oil-well pump. No. 1,317,921; Oct. 7; v. 267; p. 49.
- Gregory, Ralph, Kansas City, Mo., assignor to Oil Well Reclamation Company, Chicago, Ill. Oil-well pump. No. 1,326,338; Dec. 30; v. 269; p. 744.
- Gregory, Walter D., Newark, N. J., assignor, by mesne assignments, to United Publishers Corporation, New York, N. Y. Catalogue. No. 1,319,386; Oct. 21; v. 267; p. 416.
- Greig, James A., and W. F. Balkenol, Lismore, Minn. Wrench. No. 1,309,727; July 15; v. 264; p. 383.
- Greil, Frederick H. (See Chakravarty and Greil.)
- Greiner, Alfred, and F. J. Farrelly, Hartford, Conn. Vacuum-tube. No. 1,295,481; Feb. 25; v. 259; p. 671.
- Greiner, Algine R., et al. (See Bauer, Otto V., assignor.)
- Greiner, Arno, Mount Vernon, N. Y., assignor to General Optical Company. Optical instrument. No. 1,324,448; Dec. 9; v. 269; p. 276.
- Greiner, Charles T. C. F., and L. Jacobson, New York, N. Y. Boat. No. 1,293,758; Feb. 11; v. 259; p. 213.
- Greising, Charles M., and W. E. Naylor, St. Paul, Minn., assignors, by mesne assignments, to International Harvester Company. Means for controlling fiber-treating machines. No. 1,291,644; Jan. 14; v. 258; p. 412.
- Greist Manufacturing Company, The. (See Lent, Wilmar F., assignor.)
- Greist Manufacturing Company, The. (See Russell, Herbert H., assignor.)
- Grelck, Bertha H. M. (See Grelck, William P. M., assignor.)
- Grelck, William P. M., assignor to B. H. Grelck, Lincoln, Nebr. Baking compound. No. 1,322,561; Nov. 25; v. 268; p. 581.
- Grenier, Henry J., Bridgeport, Conn. Sugar-dispensing device. No. 1,312,320; Aug. 5; v. 265; p. 87.
- Grenon, Arzidas J., New Haven, Conn. Smoke-hood for cooking utensils. No. 1,308,412; July 1; v. 264; p. 74.
- Grenzig, August J., Brooklyn, N. Y. Adjustable hammer-stand. No. 1,324,394; Dec. 9; v. 269; p. 266.
- Gresham Finance Corporation Limited, The. (See Scott, Bateman D., assignor.)
- Gressle, Albert C., and R. E. Asbury, Hamilton, Ohio. Air-driven implement. No. 1,322,107; Nov. 18; v. 268; p. 443.
- Gressle, Charles W., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,311,269; July 29; v. 264; p. 730.
- Gressle, Charles W., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Transversely-split demountable rim. No. 1,312,535; Aug. 12; v. 265; p. 158.
- Grether, William, Dayton, Ohio. Portable electric lanclamp. No. 1,300,956; Apr. 15; v. 261; p. 572.
- Grether, William, Dayton, Ohio. Portable electric lantern. No. 1,301,253; Apr. 22; v. 261; p. 670.
- Gretsch, Mark J., assignor of one-half to V. Gretsch and one-half to I. Leviton, New York, N. Y. Pull-socket. No. 1,294,794; Feb. 18; v. 259; p. 491.
- Gretsch, Vera, et al. (See Gretsch, Mark J., assignor.)
- Greubel, Michael J., Hoboken, N. J., assignor to Garwood Company. Expansion-bolt. No. 1,295,734; Feb. 25; v. 269; p. 730.
- Greuloch, Philip F., Toledo, Ohio. Concrete-wall mold. No. 1,322,784; Nov. 25; v. 268; p. 623.
- Greve, Edgar E., Bellevue, assignor to Oil Well Supply Company, Pittsburgh, Pa. Hose-coupling nozzle and p. 128.
- Grever, Joseph F., New York, N. Y. Printing and marking apparatus. No. 1,312,321; Aug. 5; v. 265; p. 87.
- Greville, Henry, Birkenhead, England. Treating flour. No. 1,300,604; Apr. 15; v. 261; p. 497.
- Greville, Henry, Liverpool, England. Treatment of flour. No. 1,306,333; June 10; v. 263; p. 240.



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- Grey, Charles R., Billings, Mont. Trash-separator for beets and beet-tailings. No. 1,296,383; Mar. 4; v. 260; tern. No. 1,291,433; Jan. 14; v. 258; p. 374.
- Grey, Charles R., Thermopolis, Wyo. Knife. No. 1,299,173; Apr. 1; v. 261; p. 127.
- Grey Iron Casting Company. (See Sander, Alfred H., assignor.)
- Grgec, Luke, Chicago, Ill. Bolt. No. 1,301,558; Apr. 22; v. 261; p. 728.
- Grice, Letcher O. (See Hale, Augustus S., assignor.)
- Gridley, Eben E., assignor to Minute Tapioca Company, Orange, Mass. Producing an alimentary substance and product thereof. No. 1,304,679; May 27; v. 262; p. 517.
- Grier, John M., Salt Lake City, Utah. Ornamental-cell-setting apparatus. No. 1,314,325; Aug. 26; v. 265; p. 552.
- Gries, William, Newark, N. J. Safety-guard for bolts and the like. No. 1,303,293; May 13; v. 262; p. 182.
- Griesbaum, Erwin, St. Louis, Mo. Wrench. No. 1,319,701; Oct. 28; v. 267; p. 498.
- Griesche, Gustav, Berkeley, Calif. Flushing device for drains. No. 1,314,261; Aug. 26; v. 265; p. 540.
- Grieshaber, Hugo E., New London, Conn., assignor to Electric Boat Company. Testing-tank for submarines. No. 1,309,728; July 15; v. 264; p. 383.
- Grieshaber, Hugo E., Groton, Conn., assignor to Electric Boat Company. Spray-shield for submarine boats. No. 1,314,058; Aug. 26; v. 265; p. 501.
- Grieshaber, Hugo E., Groton, Conn., assignor to Electric Boat Company. Spray-shield for submarine boats. No. 1,314,059; Aug. 26; v. 265; p. 501.
- Grieshaber, Hugo E., and R. C. Simpson, New London, Conn., assignors to Electric Boat Company. Testing-tank for submarines. No. 1,309,756; July 15; v. 264; p. 389.
- Grievess, Albert, Springfield, Ohio, assignor, by mesne assignments, to International Harvester Company. Mowing-machine. No. 1,310,616; July 22; v. 264; p. 577.
- Griffeth, Francis E., Athens, Ga. Antirattler attachment for vehicles. No. 1,317,017; Sept. 23; v. 266; p. 541.
- Griffin, Alvah M., Kansas City, Mo. Acetylene-gas generator. No. 1,311,270; July 29; v. 264; p. 731.
- Griffin, Alvah M., Kansas City, Mo. Gasolene-tower. No. 1,311,271; July 29; v. 264; p. 731.
- Griffin, Alvah M., assignor to Kansas City Metal Head Dishing Machine Company, Kansas City, Mo. Plate-shaping machine. No. 1,316,300; Sept. 16; v. 266; p. 358.
- Griffin, Eugene T. (See Dehuff and Griffin.)
- Griffin, Frank F., Monroe, N. Y. Grip-chain for tires. No. 1,324,395; Dec. 9; v. 269; p. 266.
- Griffin, Gordon, et al. (See Watkins, Joseph W., assignor.)
- Griffin, Henry W., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,298,693; Apr. 1; v. 261; p. 16.
- Griffin, Jesse G., et al. (See Bauer, Otto V., assignor.)
- Griffin, John P., Pearce, Alberta, Canada. Door-check. No. 1,326,050; Dec. 23; v. 269; p. 654.
- Griffin, Lilyan A., Chicago, Ill. Eye-shade and eye-protector. No. 1,295,980; Mar. 4; v. 260; p. 37.
- Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Fitting for pipe conveyor systems. No. 1,300,380; Apr. 15; v. 261; p. 450.
- Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Tank for ash-conveyor systems. No. 1,300,605; Apr. 15; v. 261; p. 497.
- Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Conveyor system. No. 1,304,763; May 27; v. 262; p. 532.
- Griffin, Lorne A., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Impact-elbow. No. 1,318,551; Oct. 14; v. 267; p. 231.
- Griffin, Maurice J. (See Hanscom and Griffin.)
- Griffin, Michael B., Pascoag, R. I. Picker-strap. No. 1,304,764; May 27; v. 262; p. 532.
- Griffin, Michael J., Hartford, Conn. Making horseshoe-calks. No. 1,324,192; Dec. 9; v. 269; p. 227.
- Griffin, William W., Atlanta, Ga. Building-block. No. 1,297,151; Mar. 11; v. 260; p. 337.
- Griffing, William A., Portland, Oreg. Differential gear for motorcycles. No. 1,322,689; Nov. 25; v. 268; p. 605.
- Griffith, A. J. (See Griffith, Jacob K., assignor.)
- Griffith, Albert B. (See Stahl, Benjamin, Griffith, and Loffland.)
- Griffith, Charles R., Portland, Oreg. Process and apparatus for manufacturing hose. No. 1,319,387; Oct. 21; v. 267; p. 416.
- Griffith, De Witt T., Memphis, Tenn. Switch and coil-box lock. No. 1,307,253; June 17; v. 263; p. 440.
- Griffith, Edward R., Stockton, Cal. Bean-saver. No. 1,294,898; Feb. 18; v. 259; p. 515.
- Griffith, Ernest, Long Beach, assignor of one-half to G. D. Gilmore, Los Angeles, Calif. Compound piston for internal-combustion engines and the like. No. 1,309,891; July 15; v. 264; p. 413.
- Griffith, Euclid C., Springville, Iowa. Automatic hog-feeder. No. 1,308,901; July 8; v. 264; p. 192.
- Griffith, George L., New York, N. Y. Motor-starting and safety device. No. 1,290,737; Jan. 7; v. 258; p. 175.
- Griffith, Graves, San Francisco, Cal. Range-finder. No. 1,291,848; Jan. 21; v. 258; p. 492.
- Griffith, Graves, San Francisco, Calif. Panoramic range-finder. No. 1,299,459; Apr. 8; v. 261; p. 220.
- Griffith, Israel L. (See Field and Griffith.)
- Griffith, Israel L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coll-insulating device. No. 1,308,064; July 1; v. 264; p. 10.
- Griffith, Jacob K., Pittston, Pa. Wearing-apparel. No. 1,299,329; Apr. 1; v. 261; p. 162.
- Griffith, Jacob K., assignor to A. J. Griffith, Pittston, Pa. Grinding-mill. No. 1,295,482; Feb. 25; v. 259; p. 671.
- Griffith, Jacob K., assignor to A. J. Griffith, Pittston, Pa. Art of casting. No. 1,313,593; Aug. 19; v. 265; p. 379.
- Griffith, Percy T., New York, N. Y. Balloon, airship, and other levitating bodies. No. 1,290,979; Jan. 14; v. 258; p. 257.
- Griffith, Richard, assignor to Miller Rubber Co., Akron, Ohio. Manufacturing water-bottles and the like. No. 1,317,442; Sept. 30; v. 266; p. 658.
- Griffith, Thomas A., Kansas City, Mo. Driving mechanism. No. 1,315,115; Sept. 2; v. 266; p. 117.
- Griffith, Thomas E., East Cleveland, assignor to The W. S. Tyler Company, Cleveland, Ohio. Folding gate. No. 1,290,176; Jan. 7; v. 258; p. 39.
- Griffith, William H., Worthington, Ind. Lifting-jack. No. 1,315,929; Sept. 9; v. 266; p. 276.
- Griffiths, Arthur E., Coffeyville, Kans. Weatherproof building. No. 1,302,789; May 6; v. 262; p. 58.
- Griffiths, Francis H., Handsworth, Birmingham, England. Manufacture of headed bolts, rivets, or the like. No. 1,308,629; July 1; v. 264; p. 114.
- Griffiths, William U., Philadelphia, Pa. Wall connection for plumbing-fixtures. No. 1,291,849; Jan. 21; v. 258; p. 492.
- Griffiths, William U., Philadelphia, Pa. Valve-controlling means for flush-tanks. No. 1,302,154; Apr. 29; v. 261; p. 873.
- Griffiths, William U., Philadelphia, Pa. Mechanism for water-closet apparatus. No. 1,306,058; June 10; v. 263; p. 186.
- Griffiths, William U., Philadelphia, Pa. Valve-actuating means for water-closet apparatus. No. 1,318,864; Oct. 14; v. 267; p. 291.
- Grigas, Anthony, Worcester, Mass. Railway-switch. No. 1,314,262; Aug. 26; v. 265; p. 540.
- Grigas, Anthony, Worcester, Mass. Railway-gate. No. 1,316,710; Sept. 23; v. 266; p. 485.
- Grigg, William S., Port Huron, Mich. Lubricant-retainer. No. 1,296,181; Mar. 4; v. 260; p. 84.
- Griggs, John O., Peoria, Ill. Shield or auxiliary wall for furnaces. No. 1,320,386; Nov. 4; v. 268; p. 6.
- Griggs, John O., Peoria, Ill. Open-hearth furnace. No. 1,320,387; Nov. 4; v. 268; p. 6.
- Griggs, Percy M., Fort Bridger, Wyo. Resilient wheel. No. 1,315,300; Sept. 9; v. 266; p. 161.
- Grigsby, Bertram J., Peoria, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lamp-clamping attachment for lamp-sockets. No. 1,316,711; Sept. 23; v. 266; p. 485.
- Grigsby, Bertram J., assignor to Anderson Electric Specialty Co., Chicago, Ill. Extensible spot-lamp. No. 1,319,473; Oct. 21; v. 267; p. 433.
- Grigsby, Earl J., Akron, Ohio. Shade-roller bracket. No. 1,291,850; Jan. 21; v. 258; p. 492.
- Grigsby, Earl J., Akron, Ohio. Tool. No. 1,291,851; Jan. 21; v. 258; p. 492.
- Grigsby, Earl J., Akron, Ohio. Direction-indicator for motor-vehicles. No. 1,323,049; Nov. 25; v. 268; p. 672.
- Grikschelt, William, Detroit, Mich. Automobile-radiator. No. 1,320,755; Nov. 4; v. 268; p. 74.
- Grilley, Ernest M. (See Neuberth and Grilley.)
- Grimberg, John, New York, N. Y. Garment-hanger. No. 1,320,388; Nov. 4; v. 268; p. 6.
- Grimeck, Andrew J., Brooklyn, N. Y. Door-bolt lock. No. 1,293,414; Feb. 4; v. 259; p. 103.
- Grimes, Oyvén A., Baatsvik, near Risør, Norway. Heating, cooking, &c., by means of electric energy. No. 1,318,746; Oct. 14; v. 267; p. 268.
- Grimes, Thaddeus S., assignor to Lummus Cotton Gin Company, Columbus, Ga. Ginning-rib. No. 1,300,162; Apr. 8; v. 261; p. 377.
- Grimes, William B., Opp, Ala. Plow. No. 1,314,394; Aug. 26; v. 265; p. 566.
- Grimm Balance Valve Company. (See Grimm, Chancia V., assignor.)
- Grimm, Chancia V., assignor to Grimm Balance Valve Company, Decatur, Ill. Steam-engine valve. No. 1,303,055; May 6; v. 262; p. 109.
- Grimm, Chiel L., Detroit, Mich. Pen and pencil holder. No. 1,299,174; Apr. 1; v. 261; p. 127.
- Grimm, George W., West Hoboken, N. J. Artificial teeth. No. 1,310,654; July 22; v. 264; p. 584.
- Grimshaw, William. (See Hall and Grimshaw.)
- Grimshaw, William, Glenellyn, Ill. Fire-extinguisher. No. 1,297,559; Mar. 18; v. 260; p. 452.
- Grimley, Charles O., Louisville, Ky. Coin-controlled fluid-dispenser. No. 1,325,786; Dec. 23; v. 269; p. 605.
- Grimley, L. F. (See Wolgamott, Samuel B., assignor.)



- Grimson, Samuel B., New York, N. Y. Stringed musical instrument. No. 1,290,177; Jan. 7; v. 258; p. 39.
- Grimwood, Charles P., Los Angeles, Calif. Laboratory filtering device. No. 1,316,789; Sept. 23; v. 266; p. 499.
- Grindeland, Bennie T., Mabel, Minn. Shoe-buckle. No. 1,311,120; July 22; v. 264; p. 670.
- Grinden Art Metal Company. (See Parish, Frank J., assignor.)
- Grindle, Aubrey J., assignor to Combustion Economy Corporation, Chicago, Ill. Apparatus for burning powdered coal. No. 1,315,719; Sept. 9; v. 266; p. 236.
- Grindle, Verlin P., Lincoln, Nebr. Multiple-wire connector. No. 1,295,304; Feb. 25; v. 259; p. 630.
- Grine, Harry A., Collinsville, Okla., assignor to Gas Power Machinery Company, Los Angeles, Calif. Making producer-gas. No. 1,313,180; Aug. 12; v. 265; p. 285.
- Grinnell, Harold D., assignor to The G. C. A. Manufacturing Company, Pittsfield, Mass. Incandescent-lamp-base remover. No. 1,319,028; Oct. 14; v. 267; p. 323.
- Grinnell, Harry M., Seattle, Wash. Traffic-signal for vehicles. No. 1,315,801; Sept. 9; v. 266; p. 161.
- Grip Nut Company. (See Sharp, William E., assignor.)
- Grismore, Jennings E., Jamesport, Mo. Keyless padlock. No. 1,306,427; June 10; v. 263; p. 257.
- Griscom, Leslie, Philadelphia, Pa., assignor to Fletcher Works Incorporated, Bearing for centrifugal machines. No. 1,305,796; June 3; v. 263; p. 107.
- Griscom-Russell Company, The. (See Jones, Russell C., assignor.)
- Grisham, Benjamin E., Memphis, Tenn. Holder for resistance-coils. No. 1,308,946; July 8; v. 264; p. 200.
- Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Wire-nail shingle-clamp. No. 1,320,136; Oct. 28; v. 267; p. 580.
- Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Twin-wire-nail shingle-clamp. No. 1,321,623; Nov. 11; v. 268; p. 303.
- Griswold, Albert A., Providence, R. I., assignor of one-half to J. F. Chevalier, Brookline, Mass. Flexible undercave. No. 1,321,624; Nov. 11; v. 268; p. 303.
- Griswold, Charles D. (See Pope, James H., assignor.)
- Griswold, George L., Brookfield, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Container for electrical apparatus. No. 1,296,653; Mar. 11; v. 260; p. 223.
- Griswold, James H., et al., special administrators. (See Bryant, Richard S.)
- Griswold, John L., Dodge Center, Minn. Shiftable silo-door. No. 1,322,690; Nov. 25; v. 268; p. 605.
- Griswold, Lester E., New York, N. Y., assignor to Macbeth-Evans Glass Company. Automobile-headlight lens. No. 1,317,872; Oct. 7; v. 267; p. 40.
- Griswold Manufacturing Company, The. (See Massing, Frank, assignor.)
- Griswold Manufacturing Company. (See Monihan, Daniel J., assignor.)
- Gruinas, John, Chicago, Ill. Cigar-lighter. No. 1,294,795; Feb. 18; v. 259; p. 491.
- Groat, Benjamin F., Pittsburgh, Pa. Method of and means for controlling the surface transporeivity of streams, &c. No. 1,314,743; Sept. 2; v. 266; p. 51.
- Grob, Armin, and J. Würler, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of chlorinated derivatives of the N-dihydro 1,2,2'-l' anthraquinonazin. No. 1,317,160; Sept. 30; v. 266; p. 605.
- Grob, Hugo, Fürsten Walde, Germany. Belt-tightener. No. 1,319,066; Oct. 21; v. 267; p. 355.
- Grobling, John, Detroit, Mich. Stove. No. 1,326,051; Dec. 23; v. 269; p. 654.
- Groch, Frank, Cobalt, Ontario, Canada. Apparatus for recovering pulp fibers, &c., from liquids containing them. No. 1,312,976; Aug. 12; v. 265; p. 245.
- Grode, Frank P. (See Treiber and Grode.)
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Means for attaching tools to spindles. No. 1,300,163; Apr. 8; v. 261; p. 377.
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Milling-machine. No. 1,316,230; Sept. 16; v. 266; p. 345.
- Groene, William F., and W. G. Hoelscher, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe. No. 1,314,744; Sept. 2; v. 266; p. 51.
- Groenenstein, Arnold G., Elvria, Ohio. Terminal clip for electric wires. No. 1,297,560; Mar. 18; v. 260; p. 452.
- Groetken, Henry J., Le Mars, Iowa. Lock-nut. No. 1,318,865; Oct. 14; v. 267; p. 291.
- Groetz, Alfred R. (See Verran and Groetz.)
- Groff, Giacomo, Denver, Colo. Disappearing window-screen. No. 1,294,094; Feb. 11; v. 259; p. 292.
- Groff, Howard M., Frankford, Pa. Mechanical time-fuse. No. 1,312,112; Aug. 5; v. 265; p. 49.
- Groh, Bernard C., assignor to Automatic Electric Company, Chicago, Ill. Telephone trunking system. No. 1,293,415; Feb. 4; v. 259; p. 103.
- Groh, John, Chicago, Ill. Pipe-cleaning machine. No. 1,313,850; Aug. 19; v. 265; p. 427.
- Grojean, Louis A., Camp Cody, N. Mex. Beef-harvester. No. 1,310,335; July 15; v. 264; p. 493.
- Grolle, Joseph V., Sunnyvale, Calif. Combined back-rest and table. No. 1,302,155; Apr. 29; v. 261; p. 873.
- Gröndal, Gustaf, Djursholm, Sweden, assignor to A/S. Norsk Staal, Trondhjem, Norway. Manufacture of iron sponge. No. 1,322,430; Nov. 18; v. 268; p. 505.
- Gronkwist, Oscar R., Katrineholm, Sweden. Lubricator for engines. No. 1,292,312; Jan. 21; v. 258; p. 606.
- Gronseth, Martin A., Superior, Wis. Display-trunk. No. 1,325,843; Dec. 23; v. 269; p. 616.
- Groot, Charles W., Rocheste, N. Y. Wind-shield cleaner. No. 1,293,759; Feb. 11; v. 259; p. 213.
- Gropper, Otto S., Long Island City, N. Y. Illuminated license-plate. No. 1,315,116; Sept. 2; v. 266; p. 117.
- Gros, Claude F., Puteaux, France. Six-wheeled motor-vehicle. No. 1,310,395; July 15; v. 264; p. 505.
- Groschopp, William F., assignor to Kampfe Bros., Brooklyn, N. Y. Safety-razor frame. No. 1,299,570; Apr. 8; v. 261; p. 245.
- Grosjean, Dieudonné, Verviers, Belgium. Carding-machine. No. 1,314,586; Sept. 2; v. 266; p. 21.
- Grosjean, James E., Lima, assignor of one-fourth to L. F. Montgomery, Fort Recovery, and one-fourth to F. L. Maire, Lima, Ohio. Sole for boots and shoes. No. 1,297,834; Mar. 18; v. 260; p. 511.
- Grosjean, James E., Lima, assignor of one-half to L. F. Montgomery, Fort Recovery, Ohio. Brake-lining. No. 1,301,686; Apr. 22; v. 261; p. 754.
- Grosner, Gerald D., assignor to Sharples Specialty Company, West Chester, Pa. Centrifugal machine. No. 1,302,031; Apr. 29; v. 261; p. 851.
- Gross, Allan J., assignor to J. L. Kennedy, Chicago, Ill. Dry-pipe valve. No. 1,311,388; July 29; v. 264; p. 753.
- Gross, Allan J., assignor to J. L. Kennedy, Chicago, Ill. Dry-pipe valve. No. 1,320,339; Nov. 4; v. 268; p. 6.
- Gross, Andrew, New York, N. Y. Sled. No. 1,318,747; Oct. 14; v. 267; p. 268.
- Gross, Bluma, Jersey City, N. J. Shirt. No. 1,301,252; Apr. 22; v. 261; p. 670.
- Gross, Charles E., Jr., Pittsburgh, Pa. Automatic tap. No. 1,308,902; July 8; v. 264; p. 192.
- Gross, Daniel N., South Fort Smith, Ark. Gas heating-stove. No. 1,313,813; Aug. 19; v. 265; p. 420.
- Gross, Edward L. (See Deutsch and Gross.)
- Gross, Elmer S. (See Gross, George H. and E. S.)
- Gross, Ernest A., Lamolite, Minn. Door-operating mechanism. No. 1,299,830; Apr. 8; v. 261; p. 305.
- Gross, George H., Denver, Colo., and E. S. Gross, Racine, Wis. Fender for motor-vehicles. No. 1,322,691; Nov. 25; v. 268; p. 606.
- Gross, George W., Seattle, Wash. Measuring instrument. No. 1,303,471; May 13; v. 262; p. 214.
- Gross, Herman, La Fayette, Ind. Carbureter-adjusting attachment. No. 1,308,707; July 1; v. 264; p. 128.
- Gross, John E., Walla Walla, Wash. Traction-belt. No. 1,305,280; June 3; v. 263; p. 10.
- Gross, Mannin, Council Grove, Kans. Burner. No. 1,315,802; Sept. 9; v. 266; p. 162.
- Gross, Milo D., Walla Walla, Wash. Joint. No. 1,307,122; June 17; v. 263; p. 417.
- Gross, Raphael. (See Isaac and Gross.)
- Grosse, Herman G., Chicago, Ill. Ironing-board. No. 1,291,484; Jan. 14; v. 258; p. 374.
- Grosse, Herman G., Chicago, Ill. Automobile-top. No. 1,294,447; Feb. 18; v. 259; p. 411.
- Grosshans, William, Rowena, Tex. Corn-harvester. No. 1,316,712; Sept. 23; v. 266; p. 485.
- Grossman, Harrison R., Philadelphia, Pa. Finger-ring. No. 1,307,398; June 24; v. 263; p. 501.
- Grossmann, Jacob, Manchester, England. Utilization of niter cake. No. 1,298,334; Mar. 25; v. 260; p. 643.
- Grossmann, Jacob, Manchester, England. Concentrating sewage-sludge. No. 1,325,787; Dec. 23; v. 269; p. 605.
- Grossman, Louis A., and R. Schimek, New York, N. Y. Wrapping-paper-dispensing apparatus. No. 1,301,837; Apr. 29; v. 261; p. 814.
- Grossman, Samuel. (See Sadowsky, Nathan, assignor.)
- Grossman, Samuel, New York, N. Y. Resilient wheel. No. 1,314,643; Sept. 2; v. 266; p. 32.
- Grossman, Simon. (See De Muth, Charles J., assignor.)
- Grossnickle, Jonas, North Manchester, Ind. Silo. No. 1,314,644; Sept. 2; v. 266; p. 32.
- Grosvenor, William M., Ridgewood, N. J., assignor to Perkins Glue Company. Mixing apparatus. No. 1,293,087; Feb. 4; v. 259; p. 27.
- Grosvenor, William M., Ridgewood, N. J., assignor to Perkins Glue Company. Adhesive. No. 1,311,964; Aug. 5; v. 265; p. 21.
- Grosvenor, William M., New York, N. Y., assignor to Perkins Glue Company. Gluing wood. No. 1,299,705; Apr. 8; v. 261; p. 276.
- Grosvenor, William M., New York, N. Y., assignor to Perkins Glue Company. Vegetable glue and making the same. No. 1,311,965; Aug. 5; v. 265; p. 21.
- Groszold, Fred E., Eau Claire, Wis. Floor-drain. No. 1,301,687; Apr. 22; v. 261; p. 754.
- Groszold, Fred E., Eau Claire, Wis. Roof-flashing. No. 1,317,574; Sept. 30; v. 266; p. 684.
- Groszold, Frederick E., Eau Claire, Wis. Coal-chute. No. 1,312,498; Aug. 5; v. 265; p. 121.
- Groth, John H., Beaver Falls, Pa. Die for glass-pressing machines. No. 1,290,738; Jan. 7; v. 258; p. 176.



## Alphabetical list of patentees—Continued.

- Groth, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Feeding and submerging device. No. 1,302,468; Apr. 29; v. 261; p. 934.
- Grothé, Armand A., Montreal, Quebec, Canada. Machine for marking cigars. No. 1,302,790. May 6; v. 262; p. 58.
- Grotjohann, Harry V., assignor to G. D. Rose, Chicago, Ill. Printing-telegraph receiver. No. 1,305,536; June 3; v. 263; p. 58.
- Grotjohann, Walter R., and O. D. Green, Baltimore, Md. Grip-latch. No. 1,299,460; Apr. 8; v. 261; p. 220.
- Grounds, George H., Chicago, Ill. Air-valve for gas-engines. No. 1,299,571; Apr. 8; v. 261; p. 243.
- Groupe, Andrew V. (See Brenizer, Orson W., assignor.)
- Grove, E. W. (See Carrier, Albert H., assignor.)
- Grove, Edwin W. (See Carrier, Albert H., assignor.)
- Grove, Frank H., E. M. McCurry, and G. R. Bilger, assignors to The Banner Machine Company, Columbiana, Ohio. Collapsible core. No. 1,325,670; Dec. 23; v. 269; p. 583.
- Grover, Albert D., New York, N. Y. Multiple-wrench tool. No. 1,321,625; Nov. 11; v. 268; p. 303.
- Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Slot-closing mechanism for coin-controlled vending-machines. No. 1,310,826; July 22; v. 264; p. 616.
- Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-controlled vending-machine. No. 1,310,863; July 22; v. 264; p. 622.
- Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Automatic slot-closer for coin-controlled vending-machines. No. 1,316,887; Sept. 23; v. 266; p. 516.
- Grover, Albert D., Malden, and E. E. Barber, Boston, Mass., assignors, by mesne assignments, to Autosales Corporation. Vending-machine. No. 1,300,259; Apr. 15; v. 261; p. 424.
- Grover, Charles W., Pleasant Pond, Me. Log-measuring wheel. No. 1,291,485; Jan. 14; v. 258; p. 374.
- Grover, George, assignor of one-half to F. W. Buchholz, South Norwalk, Conn. Cooking-basket. No. 1,312,075; Aug. 5; v. 265; p. 42.
- Grover, George B., assignor to W. J. Young Machinery Company, Lynn, Mass. Machine for holding and pressing heel-blanks. No. 1,314,587; Sept. 2; v. 266; p. 21.
- Grover, Ray, and W. A. Meyer, Milwaukee, Wis. Caterpillar-tractor. No. 1,316,092; Sept. 16; v. 266; p. 319.
- Groves, Charles M., Hudson, Wyo. Brick or tile apparatus. No. 1,296,793; Mar. 11; v. 260; p. 256.
- Groves, Frank L., Butte, Mont. Internal-combustion turbine. No. 1,299,330; Apr. 1; v. 261; p. 162.
- Groves, George S., assignor to S. H. Groves, Alexandria, Va. Wave-motor. No. 1,323,182; Nov. 25; v. 268; p. 698.
- Groves, Shelton H. (See Groves, George S., assignor.)
- Grozier, Thomas H., Longueville, near Sydney, New South Wales, Australia. Reclaiming of used printers' roller composition. No. 1,321,789; Nov. 11; v. 268; p. 334.
- Grubb, Orin A., Wichita Falls, Tex. Power-transmitting mechanism. No. 1,296,654; Mar. 11; v. 260; p. 224.
- Grubbe, Frank T. (See Morris and Grubbe.)
- Grubbs, Charles W., Summit, Miss. Kitchen-cabinet. No. 1,291,486; Jan. 14; v. 258; p. 375.
- Grubbs, Oren L., Independence, Kans. Phonograph-reproducer. No. 1,315,117; Sept. 2; v. 266; p. 117.
- Grube, John H., assignor to Airsafe Inner Tire Company, Los Angeles, Calif. Tire-liner. No. 1,309,249; July 8; v. 264; p. 257.
- Grube, John H., assignor to Airsafe Inner Tire Company, Los Angeles, Calif. Tire-liner mold. No. 1,312,627; Aug. 12; v. 265; p. 177.
- Gruber, Arthur H., Evanston, Ill. Reinforcing for tire-casings. No. 1,306,334; June 10; v. 263; p. 240.
- Gruber, Arthur H., Evanston, Ill., assignor of one-third to E. Hoffman, Racine, Wis. Tire fabric. No. 1,317,701; Oct. 7; v. 267; p. 8.
- Gruber, Joseph, Milwaukee, Wis. Window-ventilator. No. 1,310,475; July 22; v. 264; p. 550.
- Gruber, Max, Geneva, Switzerland. Arrangement for cooling high-speed dynamo-electric machines. No. 1,316,790; Sept. 23; v. 266; p. 499.
- Gruber, Paul R., Waterbury, Conn., and M. Selig, New York, N. Y. Separable fastener. No. 1,311,812; July 29; v. 264; p. 832.
- Gruber, Paul R., Waterbury, Conn., and M. Selig, New York, N. Y. Garment-fastener. No. 1,311,813; July 29; v. 264; p. 832.
- Grubman, Benjamin. (See Goodman and Grubman.)
- Gruel, Edgar M., Red Lodge, Mont. Dirigible headlight. No. 1,326,052; Dec. 23; v. 269; p. 654.
- Gruen, Frederick G., assignor to The D. Gruen Watch Company, Cincinnati, Ohio. Wrist-watch. No. 1,303,888; May 20; v. 262; p. 329.
- Gruen, John, Jr., Springfield, Mo. Combination-door. No. 1,314,959; Sept. 2; v. 266; p. 89.
- Gruendler, Gustav J., St. Louis, Mo. Refrigerator. No. 1,299,175; Apr. 1; v. 261; p. 128.
- Gruendling, Gustave A. (See Brewer and Gruendling.)
- Gruenfeld, Julius J., Jr., assignor to Massey Concrete Products Corporation, Chicago, Ill. Hollow-concrete-pole-making apparatus. No. 1,303,889; May 20; v. 262; p. 329.
- Gruenfeld, Julius J., Jr., and P. Kircher, assignors to Massey Concrete Products Corporation, Chicago, Ill. Mold-form. No. 1,300,381; Apr. 15; v. 261; p. 451.
- Gruenfeldt, Emil, assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Operating mechanism. No. 1,322,692; Nov. 25; v. 268; p. 606.
- Gruetter, John R. (See Loew and Gruetter.)
- Gruetter, John R., assignor to The Loew Manufacturing Company, Cleveland, Ohio. Bottle-cleaning apparatus. No. 1,313,814; Aug. 19; v. 265; p. 420.
- Grumbos, John, et al. (See Santacroce, Agostino, assignor.)
- Grundmann, William, assignor to Crescent Tool Manufacturing Company, St. Louis, Mo. Concrete-finishing tool. No. 1,295,735; Feb. 25; v. 259; p. 730.
- Grundmann, William, St. Louis, Mo. Patella-splint. No. 1,313,181; Aug. 12; v. 265; p. 285.
- Grundy, James A., assignor of one-half to John Bromley & Sons, Incorporated, Philadelphia, Pa. Jacquard-card-punching device. No. 1,318,662; Oct. 14; v. 267; p. 252.
- Grundy, Margaret C., et al. (See Dougherty, William, assignor.)
- Grüner, Wilhelm, New York, N. Y., assignor to Norsk Hydro-eltrisk Kvaelfakteselskab, Solligaten, Christiania, Norway. Electrolysis of solutions. No. 1,311,506; July 29; v. 264; p. 775.
- Grunnet, Martin, assignor of one-half to H. Seils, Chicago, Ill. Switch-lock. No. 1,312,977; Aug. 12; v. 265; p. 245.
- Grunwald, Bertrand B., assignor, by mesne assignments, to A. J. Merle, Alameda, Calif. Producing magnesium carbonate. No. 1,298,932; Apr. 1; v. 261; p. 73.
- Grunwald, Bertrand B., Redwood City, Calif., assignor to National Magnesia Manufacturing Company. Material for making monolithic structures. No. 1,318,075; Oct. 7; v. 267; p. 79.
- Grunwald, Bertrand B., Redwood City, Calif., assignor to National Magnesia Manufacturing Company. Material for closing off water in oil-wells. No. 1,318,076; Oct. 7; v. 267; p. 79.
- Grunwald, Carl, Brodeney, Germany. Fuel-injecting device for internal-combustion engines. No. 1,310,565; July 22; v. 264; p. 567.
- Grupe, William E., North Bergen, N. J., assignor to Endless Belt Corporation, Inc. Woven fabric. No. 1,319,768; Oct. 28; v. 267; p. 511.
- Grush, Charles E. (See Russell and Grush.)
- Grush, Elmer B., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last. No. 1,295,890; Mar. 4; v. 260; p. 16.
- Grush, Elmer B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,325,634; Dec. 23; v. 269; p. 576.
- Grüttenfien, Wilhelm, Elberfeld, Germany, assignor to Synthetic Patents Co., Inc., New York, N. Y. Yohimbin-arsenic pharmaceutical product. No. 1,305,462; June 3; v. 263; p. 44.
- Gryczeski, Jan, Bayonne, N. J. Turn-table device for automobiles. No. 1,303,554; May 13; v. 262; p. 229.
- Grylls, Horace B. (See Heape and Grylls.)
- Gryniwicz, Anna J., Chicago, Ill. Garment provided with a neckband. No. 1,299,572; Apr. 8; v. 261; p. 245.
- Guarantee Liquid Measure Company. (See Crowder, Raymond, assignor.)
- Guarantee Liquid Measure Company. (See MacKenzie, George W., Jr., assignor.)
- Guarantee Liquid Measure Company. (See MacKenzie and Crowder, assignors.)
- Guardian Savings & Trust Company, The, trustee. (See Cunningham, William P., assignor.)
- Guardian Savings & Trust Company, The, trustee. (See Deslauriers, Albert J., assignor.)
- Guardino, Diego, Brooklyn, N. Y. Container. No. 1,300,164; Apr. 8; v. 261; p. 377.
- Guay, Adélar, assignor of one-third to O. Letourneau and one-third to P. Belair, Montreal, Quebec, Canada. Grain-car. No. 1,316,713; Sept. 23; v. 266; p. 486.
- Guay, Adélar, assignor of one-third to O. Letourneau and one-third to P. Belair, Montreal, Quebec, Canada. Grain-car. No. 1,324,812; Dec. 16; v. 269; p. 407.
- Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Gear-wheel. No. 1,297,835; Mar. 18; v. 260; p. 511.
- Guay, Emil J., Lynn, Mass., assignor to General Electric Company. Lubricant for non-metallic gear-wheels. No. 1,304,477; May 20; v. 262; p. 440.
- Gubbins, John F., Chicago, Ill. Driving mechanism for washing-machines. No. 1,294,448; Feb. 18; v. 259; p. 411.
- Gubbins, John F., Chicago, Ill. Washing-machine. No. 1,303,294; May 13; v. 262; p. 182.
- Gudem, Trygve, Christiania, Norway. Electromagnetic current-limiter. No. 1,302,916; May 6; v. 262; p. 83.
- Gudge, Benjamin J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Preparing resinous compositions. No. 1,299,706; Apr. 8; v. 261; p. 276.
- Gudgell, Lycurgus, assignor to The Gudgell's Rubber Hub Company, Rock Island, Ill. Resilient wheel. No. 1,298,493; Mar. 25; v. 260; p. 678.



- Gudgell's Rubber Hub Company, The. (See Gudgell, Lycurgus, assignor.)
- Gudger, Fred, Cary, Ky. Non-refillable bottle. No. 1,300,165; Apr. 8; v. 261; p. 377.
- Gudka, E. E., et al. (See Williams, Frank P., assignor.)
- Gudmundsen, Abraham, Lehi, Utah. Gate-closer. No. 1,314,516; Sept. 2; v. 266; p. 7.
- Guenther, Arthur G., assignor to J. S. McChesney & Co., Chicago, Ill. Wire-tying machine. No. 1,324,590; Dec. 9; v. 269; p. 304.
- Guenther, Henry J., assignor to United Leather Goods Co., Newark, N. J. Brief bag or case. No. 1,322,785; Nov. 25; v. 268; p. 623.
- Guenther, John C., administrator. (See Garrigue, William E.)
- Guéret, André. (See de la Chevadière de la Grandville and Guéret.)
- Guerin, J. T., et al. (See Shoemaker, John F., assignor.)
- Guerrero, Jesus S., Tlajomulco, Mexico. Riding-saddle. No. 1,301,838; Apr. 29; v. 261; p. 814.
- Guerrlich, Frederick C., Stamford, Conn. Driving mechanism. No. 1,309,518; July 8; v. 264; p. 307.
- Guertin, Irénée M., Arctic Center, R. I. Trap-nest. No. 1,291,852; Jan. 21; v. 258; p. 493.
- Guest, Grace M., et al. (See Guest, John B. H., assignor.)
- Guest, John B. H., Oakland, assignor of one-half to R. S. Stark and one-fourth to G. M. Guest, San Francisco, Calif. Means for stabilizing and controlling the flight of aerial machines. No. 1,311,389; July 29; v. 264; p. 753.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,292,598; Jan. 28; v. 258; p. 697.
- Guett, Monroe, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Spacing-washer. No. 1,311,344; July 29; v. 264; p. 745.
- Guettler, Herbert. (See Hussey, William J., assignor.)
- Guettler, Herbert, Chicago, Ill., assignor to American Barking Drum Company. Barking-drum. No. 1,311,226; July 29; v. 264; p. 722.
- Guettler, Herbert W., assignor to American Barking Drum Company, Chicago, Ill. Barking-drum. No. 1,311,225; July 29; v. 264; p. 722.
- Guettler, Herbert, assignor, by mesne assignments, to American Barking Drum Company, Chicago, Ill. Barking apparatus. No. 1,324,193; Dec. 9; v. 269; p. 227.
- Guental, Ernest J., assignor of one-third to C. A. Chevrax and one-third to W. H. Mitchell, Richmond, Ind. Forming-machine for leaf-springs. No. 1,293,760; Feb. 11; v. 259; p. 213.
- Guental, Ernest J., and T. B. Jenkins, assignor to Jenkins Vulcan Spring Company, Richmond, Ind. Bending machine. No. 1,303,657; May 13; v. 262; p. 248.
- Guffey, George E. (See Rhodes, Guffey, and Sheehan.)
- Guggenheim, Harry F., New York, N. Y. Automobile cooling system. No. 1,294,449; Feb. 18; v. 259; p. 412.
- Guggenheim, Marcus, Basel, and E. Hug, Riehen, near Basel, Switzerland, assignors to The Hoffman-La Roche Chemical Works, New York, N. Y. Making ethanol-trialkyl-arsonium hydroxids. No. 1,308,413; July 1; v. 264; p. 74.
- Guggenheim, Marcus, Basel, and E. Hug, Riehen, near Basel, Switzerland, assignors to The Hoffman-La Roche Chemical Works, New York, N. Y. Ethanol-trialkyl-arsonium hydroxid and making the same. No. 1,308,414; July 1; v. 264; p. 74.
- Guider, Walter A., Linden Heights, Ohio. Carbureter. No. 1,307,665; June 24; v. 263; p. 548.
- Guider, Walter A., Linden Heights, Ohio. Float-valve. No. 1,318,989; Oct. 14; v. 267; p. 315.
- Guidoni, Alessandro. (See Ferrati, Pecoraro, and Guidoni.)
- Guignard, August, and F. Rosiger, Hood River, Oreg. Fruit-grader. No. 1,318,990; Oct. 14; v. 267; p. 315.
- Guilbaud, Henri J. F. (See Berthelot and Guilbaud.)
- Guild, Charles H., New York, N. Y. Suspensory. No. 1,319,580; Oct. 21; v. 267; p. 453.
- Guild, George R., U. S. Army, assignor of one-half to C. T. Payton, St. Louis, Mo. Relay. No. 1,305,092; May 27; v. 262; p. 594.
- Guildner, Walter, Kilbourn, Wis. Ice-cutting machine. No. 1,323,183; Nov. 25; v. 268; p. 699.
- Gulles, Charles H., Addison, N. Y. Rim-tool. No. 1,301,839; Apr. 29; v. 261; p. 814.
- Gulford, Frank A., Oak Park, assignor of one-third to W. J. Williams, La Grange, and one-third to J. C. Bowman, Chicago, Ill. Lifting-jack. No. 1,323,760; Dec. 2; v. 269; p. 100.
- Guillaume, Charles E., Sèvres, France. Compensating balance-spring for chronometers and watches. No. 1,313,291; Aug. 19; v. 265; p. 322.
- Gulimart, Celestin, Goshen, Conn. Sluice. No. 1,303,295; May 13; v. 262; p. 183.
- Guinee, Elias B., Schuylerville, N. Y. Lamp-chimney. No. 1,295,736; Feb. 25; v. 259; p. 730.
- Guinzburg, George K., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment-protector. No. 1,314,799; Sept. 2; v. 266; p. 61.
- Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Tobacco-pouch. No. 1,310,527; July 22; v. 264; p. 560.
- Guion, Chester P., assignor to John C. Moninger Company, Chicago, Ill. Greenhouse construction. No. 1,301,934; Apr. 29; v. 261; p. 832.
- Guise, Arthur E., Kenmore, Ohio. Switch-throwing device. No. 1,316,443; Sept. 16; v. 266; p. 385.
- Guterman, Kenneth S., New York, N. Y. Electrolytic process. No. 1,314,588; Sept. 2; v. 266; p. 22.
- Gulamerian, Ardashes M., Summit, N. J. Locking master-switch for electric systems. No. 1,294,899; Feb. 18; v. 259; p. 515.
- Gulbrandsen, Gulbrand, assignor to Streeter Amet Weighing & Recording Company, Chicago, Ill. Weighing and recording scale. No. 1,319,217; Oct. 21; v. 267; p. 384.
- Gulbrandsen, Michael A., New York, assignor of one-half to M. J. Lund, Brooklyn, N. Y. Closure for combined life-rafts and steamer-trunks. No. 1,295,737; Feb. 25; v. 259; p. 730.
- Gulbransen, Axel G. and C., assignors to Gulbransen-Dickinson Company, Chicago, Ill. Player-piano. No. 1,308,736; July 1; v. 264; p. 134.
- Gulbransen, Christian. (See Gulbransen, Axel G. and C.)
- Gulbransen-Dickinson Company. (See Gulbransen, Axel G. and C., assignors.)
- Gulbransen-Dickinson Company. (See Wallin, Gustav W., assignor.)
- Gulesian, Selden J., Boston, Mass. Adjustable rail-fitting. No. 1,304,561; May 27; v. 262; p. 495.
- Gulf Production Company. (See Seibert and Brady, assignors.)
- Gulf Refining Company. (See Hawxhurst, Timothy S. K., assignor.)
- Gulf Refining Company. (See King and Roberts, assignors.)
- Gulf Refining Company. (See McAfee, Almer M., assignor.)
- Gulf Refining Company. (See Miller, Albert E., assignor.)
- Gulf Refining Company. (See Prichard, George L., assignor.)
- Gulf Refining Company. (See Stockton, Abbott L., assignor.)
- Gulich, Gregor, New York, N. Y. Snow-plow. No. 1,326,658; Dec. 30; v. 269; p. 805.
- Gulick, David E., San Francisco, Calif. Flushing-valve. No. 1,297,836; Mar. 18; v. 260; p. 511.
- Gulick, David E., San Francisco, Calif. Ball-cock, otherwise known as float-valve. No. 1,302,538; May 6; v. 262; p. 11.
- Gulick, Edward J., Elkhart, Ind. Making wind-musical-instrument valves. No. 1,295,305; Feb. 25; v. 259; p. 630.
- Gulick, Edward J., Elkhart, Ind. Oiling mechanism for internal-combustion engines. No. 1,305,355; June 3; v. 263; p. 24.
- Gulick, Edward J., Elkhart, Ind., assignor to C. G. Conn, Ltd. Wind-musical-instrument valve. No. 1,300,382; Apr. 15; v. 261; p. 451.
- Gulick, Edward J., Elkhart, Ind., assignor to C. G. Conn, Ltd. Making valve-casings for wind musical instruments. No. 1,301,935; Apr. 29; v. 261; p. 833.
- Gulick, Edward J., assignor to C. G. Conn, Limited, Elkhart, Ind. Tuning attachment for wind musical instruments. No. 1,308,903; July 8; v. 264; p. 192.
- Gulick, William R., Jersey City, N. J. Liquid-fuel atomizer and induced-draft apparatus. No. 1,293,761; Feb. 11; v. 259; p. 213.
- Gulborg, Arthur V., Chicago, Ill. Indicator mechanism for spring-motors. No. 1,302,539; May 6; v. 262; p. 11.
- Gulborg, Arthur V., Chicago, Ill. Lubricating apparatus. No. 1,307,733; June 24; v. 263; p. 561.
- Gulborg, Arthur V., Chicago, Ill. Lubricating means. No. 1,307,734; June 24; v. 263; p. 561.
- Gulborg, Arthur V., Chicago, Ill. Lubricating apparatus. No. 1,316,714; Sept. 23; v. 266; p. 486.
- Gulborg, Arthur V., assignor to Commercial Utilities Manufacturing Company, Chicago, Ill. Illuminated advertising device. No. 1,308,416; July 1; v. 264; p. 74.
- Gulborg, John S., assignor to Alemite Die-Casting & Mfg. Co., Chicago, Ill. Die-casting machine. No. 1,322,502; Nov. 18; v. 268; p. 519.
- Gulledge, George W., Briartown, Okla. Tire-protector. No. 1,291,853; Jan. 21; v. 258; p. 493.
- Gullickson, Gustav A., Seattle, Wash. Mechanical toy. No. 1,309,572; July 8; v. 264; p. 317.
- Gullion, Russell R., Sheldon, Iowa. Egg-turner. No. 1,311,814; July 29; v. 264; p. 832.
- Gumm, Joseph R. (See Wood, Lorena M., assignor.)
- Gummerson, William, Los Angeles, Calif. Steering-gear attachment. No. 1,310,159; July 15; v. 264; p. 462.
- Gumpper, John K., Chicago, assignor of one-half to W. H. Woolums, Decatur, Ill. Wheel attachment. No. 1,306,004; June 10; v. 263; p. 176.
- Gumpper, John K., Chicago, assignor of one-half to W. H. Woolums, Decatur, Ill. Traction-wheel transmission mechanism. No. 1,306,005; June 10; v. 263; p. 176.
- Gumpper, John K., assignor of one-half to W. H. Woolums, Decatur, Ill. Wheel-removing tool. No. 1,311,272; July 29; v. 264; p. 731.
- Gumprecht, William L., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,302,032; Apr. 29; v. 261; p. 851.



## Alphabetical list of patentees—Continued.

- Gumprecht, William L., Hartford, Conn., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,305,537; June 3; v. 263; p. 58.
- Gund Manufacturing Company, The. (See Pieper, Chester R., assignor.)
- Gundersen, Gilbert S., Fort Wayne, Ind. Differential gear and lock for motor-vehicle-transmission systems. No. 1,317,286; Sept. 30; v. 266; p. 628.
- Gunderson, Harley J., *et al.* (See Shields, Nelson, assignor.)
- Güngerich, Paul, Berlin-Steglitz, Germany, assignor, by mesne assignments, to Alien Property Custodian. Means for safeguarding against fire and explosion. No. 1,321,799; Nov. 11; v. 268; p. 336.
- Gunn, Charles H., Sacramento, Calif. Lining for friction-surfaces. No. 1,298,335; Mar. 25; v. 260; p. 643.
- Gunn, Charles H., Lincoln, Calif. Flexible auxiliary tread for pneumatic tires. No. 1,299,707; Apr. 8; v. 261; p. 276.
- Gunn, Charles H., Emeryville, Calif. Tire construction for vehicle-wheels. No. 1,308,416; July 1; v. 264; p. 74.
- Gunn, Charles H., Emeryville, Calif. Sectional casing for pneumatic tires. No. 1,312,978; Aug. 12; v. 265; p. 246.
- Gunn, Charles H., Emeryville, Calif. Wrench. No. 1,320,137; Oct. 28; v. 267; p. 580.
- Gunn, Earl G., and A. L. Nelson, assignors to Premier Motor Corporation, Indianapolis, Ind. Internal-combustion engine. No. 1,301,254; Apr. 22; v. 261; p. 670.
- Gunn, Robert W., and W. A. S. Thompson, Los Angeles, Calif. Armored jam-joint sucker-rod. No. 1,326,259; Dec. 30; v. 269; p. 730.
- Gunn, Thomas M. (See Hibbs and Gunn.)
- Gunter, June U. (See Troup, Alexander M., assignor.)
- Gunther, Leon F., Piqua, Ohio. Rest-bar for lathes. No. 1,292,456; Jan. 28; v. 258; p. 661.
- Guntner, Frank G., White Plains, assignor to Samuel G. Supplee & Co., New York, N. Y. Attaching means for dentures. No. 1,297,561; Mar. 18; v. 260; p. 452.
- Guntton, Fred L., assignor of one-half to F. M. Stevens, Elyria, Ohio. Window-controlling apparatus. No. 1,298,336; Mar. 25; v. 260; p. 643.
- Gurevich, Louis J., and R. W. Woodward, Washington, D. C. Soldering-alloy. No. 1,301,688; Apr. 22; v. 261; p. 754.
- Gurgel, Paul F., Neillsville, Wis. Sawdust-conveying attachment. No. 1,321,031; Nov. 4; v. 268; p. 127.
- Guridi, Juan J., Mansavillagra, Florida, Uruguay. Harrow and locust-killing machine. No. 1,306,059; June 10; v. 263; p. 186.
- Gurney, Albert J., Canton, Ohio. Switch-controlling device for railway-tracks. No. 1,303,296; May 13; v. 262; p. 183.
- Gurney Ball Bearing Company. (See Baninger, John H., assignor.)
- Gurney Ball Bearing Company. (See Gurney, Frederick W., assignor.)
- Gurney, Edmund, Portland, Oreg. Ball-socket fastener. No. 1,314,645; Sept. 2; v. 266; p. 32.
- Gurney, Erving R., assignor to Knox Motors Company, Springfield, Mass. Tractor-trailer construction. No. 1,296,655; Mar. 11; v. 260; p. 224.
- Gurney, Frederick W., assignor to Gurney Ball Bearing Company, Jamestown, N. Y. Roller-bearing. No. 1,325,635; Dec. 23; v. 269; p. 577.
- Gurry, William, Leominster, Mass. Machine for shaping and polishing articles of celluloid and the like. No. 1,310,071; July 15; v. 264; p. 446.
- Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Tracking device for automatic musical instruments. No. 1,313,226; Aug. 12; v. 265; p. 294.
- Gustafson, Adolph P., assignor to M. Schulz Co., Chicago, Ill. Pneumatic motor. No. 1,325,500; Dec. 16; v. 269; p. 534.
- Gustafson, Carl, Södertelje, and K. Appelgren, Ljusne, Sweden. Force-feed lubricator. No. 1,308,417; July 1; v. 264; p. 75.
- Gustafson, Charles J., assignor to Stromberg Motor Devices Company, Chicago, Ill. Throttle mechanism for internal-combustion engines. No. 1,306,006; June 10; v. 263; p. 177.
- Gustafson, Ernst V., *et al.* (See Holmes, Henry H., assignor.)
- Gustafson, Floyd H., Mead, Nebr. Funnel. No. 1,303,890; May 20; v. 262; p. 329.
- Gustafson, George E. (See Gorton, George, assignor.)
- Gustin, Clyde V., Monett, Mo. Automobile-lock. No. 1,318,991; Oct. 14; v. 267; p. 315.
- Gustofson, Ernest B., Anoka, Minn. Gearing. No. 1,305,716; June 3; v. 263; p. 92.
- Gustus, John A., Chicago, Ill. Store-counter. No. 1,320,138; Oct. 28; v. 267; p. 580.
- Gut, Jacob, Cleveland, Ohio. Automatic train-stop. No. 1,323,627; Dec. 2; v. 269; p. 75.
- Guth, Albert, Perth Amboy, N. J. Outlet-box. No. 1,304,040; May 20; v. 262; p. 356.
- Guth, Anna, New York, N. Y. Pillow-sham holder. No. 1,322,186; Nov. 18; v. 268; p. 458.
- Guth, Anna, New York, N. Y. Curtain-pole. No. 1,324,591; Dec. 9; v. 269; p. 304.
- Guth, Edwin F., St. Louis, Mo. Lighting unit. No. 1,294,900; Feb. 18; v. 259; p. 515.
- Guth, Edwin F., assignor to Luminous Unit Company, St. Louis, Mo. Lighting-fixture. No. 1,304,963; May 27; v. 262; p. 569.
- Guth, Edwin F., assignor to Luminous Unit Company, St. Louis, Mo. Lighting-fixture. (Reissue.) No. 14,680; July 1; v. 264; p. 137.
- Guth, Edwin F., assignor to Luminous Unit Company, St. Louis, Mo. Street-lamp. No. 1,325,940; Dec. 23; v. 269; p. 633.
- Guth, Jacob, Salem, Ill. Agricultural tractor. No. 1,300,260; Apr. 15; v. 261; p. 424.
- Guthat, Albert W., Chicago, Ill. Dusting apparatus. No. 1,298,933; Apr. 1; v. 261; p. 73.
- Guthe, Olof D. M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Impulse-transmitter. No. 1,294,095; Feb. 11; v. 259; p. 292.
- Guthe, Olof D. M., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,322,010; Nov. 18; v. 268; p. 425.
- Gutknecht, Elmer H., Milwaukee, Wis. Plane. No. 1,322,011; Nov. 18; v. 268; p. 425.
- Gutmuehler, August G., Richmond Hill, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,300,723; Apr. 15; v. 261; p. 522.
- Guttinger, Oscar, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Direct-current-voltage transformer with series excitation. No. 1,326,477; Dec. 30; v. 269; p. 765.
- Guy, Ernest L., Atwood, Ind. Skin-stretcher. No. 1,320,223; Oct. 28; v. 267; p. 596.
- Guy, James, Kansas City, Mo. Mop. No. 1,325,636; Dec. 23; v. 269; p. 577.
- Guyot, Alfred, Salindres, assignor to Compagnie des Produits Chimiques d'Alais et de la Camargue, Paris, France. Preparation of monochloroacetic acid starting from trichlorethylene. No. 1,322,898; Nov. 25; v. 268; p. 644.
- Guyton, Tom, *et al.* (See Pecher, Daniel, assignor.)
- Guzel, Alexander A., Hot Springs, Va. Spark-plug. No. 1,315,935; Sept. 9; v. 266; p. 277.
- Gwatkin, Benjamin. (See Randall, Victor E., assignor.)
- Gwinn, George W., Brooklyn, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Measuring-pan. No. 1,310,655; July 22; v. 264; p. 584.
- Gwinn, George W., Brooklyn, N. Y., assignor to The Automatic Packing & Labeling Company, Durham, N. C. Reweighing-machine. No. 1,315,720; Sept. 9; v. 266; p. 236.
- Gwinn, George W., New York, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Machine for applying stamps to cans or other containers. No. 1,315,956; Sept. 16; v. 266; p. 294.
- Gwinn, Joseph M., Jr., New Orleans, La. Ground-speed indicator. No. 1,298,494; Mar. 25; v. 260; p. 678.
- Gwynn, Albert R., *et al.* (See Brown, Minnie H., assignor.)
- Gwynn, May B., *et al.* (See Brown, Minnie H., assignor.)
- Gydesen, Alfred M., Bridgeport, Conn. Lathe-chuck. No. 1,312,628; Aug. 12; v. 265; p. 177.
- Gydesen, Hans C., Brooklyn, N. Y. Combination furniture. No. 1,299,331; Apr. 1; v. 261; p. 162.
- Gynn, Hattie E. (See Reed, Lemon M., assignor.)
- Gyger, Jasper O., *et al.* (See Evans, Joseph E., assignor.)
- Györi, Janos, Reed, Pa. Automatic railway-switch. No. 1,297,837; Mar. 18; v. 260; p. 511.
- Gyp Steel Products Company. (See Shuman, Cleo G., assignor.)
- Gyro Pump Company, The. (See Simond, Walter A., assignor.)
- H. Brinton Company. (See Ames, Elmer U., assignor.)
- H. Brinton Company. (See Larkin, Walter, assignor.)
- H. Koppers Company. (See Darrin, Marc, assignor.)
- H. Koppers Company. (See Speer, Frederick W., Jr., assignor.)
- H. Koppers Company. (See Sperr and Darrin, assignors.)
- H. Maimin Co. (See Maimin, Hyman, assignor.)
- H. Maimin Co. (See Maimin and Marshall, assignors.)
- H. Maimin Co. (See Maimin and Marshall, assignors.)
- H. Maimin Company. (See Marshall, William J., assignor.)
- H. Ward Leonard Incorporated. (See Leonard, Harry W., assignor.)
- H. A. Weymann and Son. (See Weymann, Harry W., assignor.)
- H. B. Gibson Co. (See Antisell, Alfred B., assignor.)
- H. B. Smith Company, The. (See Reed, Richard D., assignor.)
- H. B. Wiggin's Sons Company. (See Wiggin, Rollin H., assignor.)
- H. C. Fry Glass Company. (See Nicols, Lowell W., assignor.)
- H. C. Fry Glass Company. (See Scholes, Samuel R., assignor.)
- H. C. Tack Company, The. (See Hill, Charles K., assignor.)
- H. D. Beach Company. (See Gibson, Francis W., assignor.)



- H. & D. Folsom Arms Co., The. (See Welles, Henry S., assignor.)
- H. D. Smith & Company, The. (See Thomson, William S., assignor.)
- H. E. Gleason Company. (See Bailey, Henry H., assignor.)
- H. G. Davis Manufacturing Company. (See Henry, George W., Jr., assignor.)
- H. H. Franklin Manufacturing Company. (See Wilkinson, John, assignor.)
- H. N. Cook Belting Co. (See Cook, Milton H., assignor.)
- H. P. Patents and Processes Company. (See Hochstetter, Frederick W., assignor.)
- H. P. Rawlings Wall Paper Co. (See Baldwin, Robert D., assignor.)
- H. P. Townsend Manufacturing Company, The. (See Townsend, Harry P., assignor.)
- H-R Manufacturing Company. (See Bernet, John, assignor.)
- H. R. Manufacturing Company. (See Saxton and Menard, assignors.)
- H. S. Earle Mfg. Co. (See Earle, Horatio S., assignor.)
- H. S. Motor Co. (See Shaw, James, assignor.)
- H. T. Rudisill, trustee. (See Macartney, John H. and J.) (Reissue.)
- H. W. Butterworth & Sons Company. (See Barton, George, assignor.)
- H. W. Butterworth & Sons Company. (See Wiegand, Hugo O., assignor.)
- H. W. Cooper Saddlery Hardware Mfg. Company. (See Cooper, Charles J., assignor.)
- H. W. Johns-Manville Co. (See Carroll, John S., assignor.)
- H. W. Johns-Manville Company. (See Carson, Clarence, assignor.)
- H. W. Johns-Manville Company. (See Christenson, George, assignor.)
- H. W. Johns-Manville Company. (See McClure, Benjamin C., assignor.)
- H. W. Johns-Manville Company. (See Wardell, Henry R., assignor.)
- H. W. Rountree & Brother Trunk and Bag Co. (See Cottrell, Henry W., assignor.)
- H. W. Rountree & Brother Trunk and Bag Co. (See Mull, Arthur L., assignor.)
- H. A. H. Tractors. (See Hatfield, Hubert A., assignor.)
- Haag, Alfred H., Newport News, Va., assignor to Haag Cabinet Company, Philadelphia, Pa. Phonographic-disk-record cabinet. No. 1,323,050; Nov. 25; v. 268; p. 673.
- Haag, Alfred H., Narberth, assignor to Haag Cabinet Company, Philadelphia, Pa. Phonographic-disk-record cabinet. No. 1,323,219; Nov. 25; v. 268; p. 706.
- Haag Cabinet Company. (See Haag, Alfred H., assignor.)
- Haahr, Anton A., Copenhagen, Denmark, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pegging-machine. No. 1,291,487; Jan. 14; v. 258; p. 375.
- Haarnagel, Georges, Neuilly-sur-Seine, France. Balance device for motor-car-door sash. No. 1,305,356; June 3; v. 263; p. 24.
- Haas, John H. (See Richards, Simon, and Haas.)
- Haas, Lottie, New York, N. Y. Mop. No. 1,319,702; Oct. 28; v. 267; p. 499.
- Haas, Lucian L., Buffalo, N. Y. Bed-guard. No. 1,295,483; Feb. 25; v. 259; p. 671.
- Haas, Paul C., assignor of one-half to J. C. Martin, Ann Arbor, Mich. Distributer. No. 1,305,093; May 27; v. 262; p. 594.
- Haas, Philip, Dayton, Ohio. Valve mechanism. No. 1,300,261; Apr. 15; v. 261; p. 424.
- Haas, Philip, Dayton, Ohio. Frost-proof valve mechanism. No. 1,303,472; May 13; v. 262; p. 214.
- Haas, Philip, Dayton, Ohio. Tank for water-closet valves. No. 1,316,715; Sept. 23; v. 266; p. 486.
- Haas, Walter G., Dayton, assignor to The Middletown Machine Company, Middletown, Ohio. Pneumatic control of various mechanisms. No. 1,291,488; Jan. 14; v. 258; p. 375.
- Haas, Walter G., Dayton, assignor to The Middletown Machine Company, Middletown, Ohio. Apparatus for pneumatic control. No. 1,303,297; May 13; v. 262; p. 183.
- Haas, William, assignor to The William Haas Company, Dayton, Ohio. Vent-pipe. No. 1,322,013; Nov. 18; v. 268; p. 426.
- Haas, William, and C. W. Ringelspaugh, assignors to The William Haas Company, Dayton, Ohio. Valve. No. 1,322,012; Nov. 18; v. 268; p. 426.
- Haberland, Oscar F., Philadelphia, Pa. Upsetting explosive toy. No. 1,311,887; Aug. 5; v. 265; p. 7.
- Haberman, Fannie, New York, N. Y. Imitation fur and making the same. No. 1,321,908; Nov. 18; v. 268; p. 407.
- Habisreiter, Max, Oakland, Calif. Water-closet high-pressure ball-cock. No. 1,299,708; Apr. 8; v. 261; p. 276.
- Hachmann, Frederick, assignor of one-half to F. C. Schoenthaler, St. Louis, Mo. Percolator. No. 1,290,546; Jan. 7; v. 258; p. 128.
- Hachmann, Frederick, assignor of fifty-one one-hundredths to H. C. Stifel, St. Louis, Mo. Container. No. 1,312,629; Aug. 12; v. 265; p. 178.
- Hachmann, Frederick, St. Louis, assignor of one-eighth to D. M. Hutchinson, Ferguson, Mo. Bottle-closure. No. 1,219,067; Oct. 21; v. 267; p. 355.
- Hachtmann, Andrew P., Allentown, Pa. Furnace. No. 1,320,614; Nov. 4; v. 268; p. 48.
- Hachtmann, Andrew P., Allentown, assignor to Lehigh Pulverizer Mill Company, Catasauqua, Pa. Tube-mill. No. 1,290,178; Jan. 7; v. 258; p. 39.
- Hack, Charles W., New York, N. Y. Thermostat. No. 1,306,007; June 10; v. 266; p. 177.
- Hack, Ernest, Detroit, Mich. Mail-box. No. 1,310,496; July 22; v. 264; p. 554.
- Hackbirt, Emil H., Cleveland, Ohio. Dispensing-container. No. 1,311,273; July 29; v. 264; p. 731.
- Hacker, Frederick J., Waterloo, Iowa. Gutter. No. 1,316,301; Sept. 16; v. 266; p. 359.
- Hacker, Horace W., Chicago, Ill. Measuring instrument. No. 1,307,775; June 24; v. 263; p. 568.
- Hacker, Horace W., Chicago, Ill. Measuring instrument. No. 1,307,776; June 24; v. 263; p. 569.
- Hacker, Horace W., Chicago, Ill. Correcting the working thickness of a printing element. No. 1,316,888; Sept. 23; v. 266; p. 516.
- Hacker, Max, Brooklyn, N. Y. Tool-holder. No. 1,298,201; Mar. 25; v. 260; p. 615.
- Hackerson, Thomas, Chicago, Ill. Auto-kitchenette. No. 1,293,416; Feb. 4; v. 259; p. 103.
- Hackett, Charles W., Atlanta, Ga., assignor of one-half to F. D. Hackett, Northwicksboro, N. C. Combination tie-plate and rail-brace. No. 1,312,905; Aug. 12; v. 265; p. 231.
- Hackett, Ephraim R. (See Jordon, Fred D., assignor.)
- Hackett, Frank D. (See Hackett, Charles W., assignor.)
- Hackett, William, assignor of one-half to J. McPhee, Portland, Oreg. Bolt. No. 1,310,909; July 22; v. 264; p. 631.
- Hackney, Fay S., Topeka, Kans. Insulated or non-conducting container. No. 1,297,152; Mar. 11; v. 260; p. 337.
- Hackney, Louise W., Glencoe, Ill. Hat-protector. No. 1,305,357; June 3; v. 263; p. 24.
- Hackstedde, Herbert, assignor to The Century Machine Company, Cincinnati, Ohio. Mixing-machine. No. 1,290,980; Jan. 14; v. 258; p. 257.
- Hackstedde, Herbert H., assignor to The Century Machine Company, Cincinnati, Ohio. Flour storing, elevating, and sifting apparatus. No. 1,320,684; Nov. 4; v. 268; p. 61.
- Hadaway, John B., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-beating machine. No. 1,290,179; Jan. 7; v. 258; p. 40.
- Hadaway, John B., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,293,762; Feb. 11; v. 259; p. 214.
- Hadaway, John B., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing insoles. No. 1,293,763; Feb. 11; v. 259; p. 214.
- Hadaway, John B., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Channel-closing machine. No. 1,295,891; Mar. 4; v. 260; p. 16.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Vamp-trimming machine. No. 1,316,716; Sept. 23; v. 266; p. 486.
- Hadaway, William S., Jr., New Rochelle, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Fluid-meter. No. 1,291,489; Jan. 14; v. 258; p. 375.
- Hadaway, William S., Jr., New Rochelle, N. Y. Heater for linotype-pots. No. 1,321,071; Nov. 4; v. 268; p. 134.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric drying or finishing press. No. 1,326,588; Dec. 30; v. 269; p. 792.
- Hadcock, Albert G., assignor to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Shield for use with gun-carriages. No. 1,298,040; Mar. 25; v. 260; p. 581.
- Hadden Automatic Sprinkler Company. (See Johnson, Frederick H., assignor.)
- Haddon, Walter. (See Constantinesco, George, assignor.) (Reissue.)
- Haddorf, Sigfred E., Irene, S. D. Non-skid attachment. No. 1,321,032; Nov. 4; v. 268; p. 127.
- Haderer, Carl E., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tiller. No. 1,309,801; July 15; v. 264; p. 397.
- Hadfield, George H., Mitchan, and A. E. Bawtree, Sutton, England. Treating porous vessels. No. 1,306,375; June 10; v. 263; p. 248.
- Hadfield, Robert A., Westminster, England. Casting ingots. No. 1,310,072; July 15; v. 264; p. 446.
- Hadfield, Robert A., Westminster, England. Manufacture of manganese steel. No. 1,310,528; July 22; v. 264; p. 560.



## Alphabetical list of patentees—Continued.

- Hadfield, Robert A., Westminster, England. Manufacture of metal rolls. No. 1,318,748; Oct. 14; v. 267; p. 268.
- Hadfield, Robert A., Westminster, England. Toughening projectiles. No. 1,325,987; Dec. 23; v. 269; p. 642.
- Hadfield, Robert A., Westminster, England. Melting of iron and steel turnings, scrap, and the like. No. 1,326,861; Dec. 30; v. 269; p. 843.
- Hadfield, Robert A., Westminster, London, and A. G. M. Jack, Sheffield, England. Cap for armor-piercing projectiles. No. 1,310,073; July 15; v. 264; p. 446.
- Hadfield, Robert A., Westminster, and A. G. M. Jack, Sheffield, England. Capped armor-piercing projectile and cap therefor. No. 1,310,076; July 15; v. 264; p. 447.
- Hadfield, Robert A., Westminster, and A. G. M. Jack, Sheffield, England. Manufacture of steel ingots. No. 1,323,628; Dec. 2; v. 269; p. 76.
- Hadfield, Robert A., London, A. G. M. Jack, Sheffield, and I. B. Milne, Totley, England. Manufacture of armor-piercing projectiles. No. 1,310,075; July 15; v. 264; p. 447.
- Hadfield, Robert A., Westminster, A. G. M. Jack, Sheffield, I. B. Milne, Totley, and W. E. Parker, Sheffield, England. Tempering of projectiles and apparatus therefor. No. 1,310,074; July 15; v. 264; p. 446.
- Hadfields (Merton) Limited. (See Bawtree, Alfred E., assignor.)
- Hadler, Christian, Washington, D. C. Scaffold-bracket. No. 1,299,176; Apr. 1; v. 261; p. 128.
- Hadley, Art, Providence, R. I. Bracelet-link. No. 1,292,763; Jan. 28; v. 258; p. 735.
- Hadley, Bert E., Los Angeles, Calif. Gas-maker and combustion apparatus. No. 1,300,230; Apr. 8; v. 261; p. 392.
- Hadley, Charles R., assignor to Charles R. Hadley Company, Los Angeles, Calif. Loose-leaf binder. No. 1,301,085; Apr. 15; v. 261; p. 602.
- Hadley Company, The. (See Tost, Charles R., assignor.)
- Hadley Mfg. Company, The. (See Johnson, Sylvester A., assignor.)
- Hadley, William W., Los Angeles, Calif. Storage-case for pneumatic tires. No. 1,319,388; Oct. 21; v. 267; p. 416.
- Haeblerlein, Max, Brooklyn, N. Y. Oil-brake for speed-governors. No. 1,318,749; Oct. 14; v. 267; p. 268.
- Haefely, Emil, Basel, Switzerland. Manufacture of insulating fibrous webs for electric insulation purposes. No. 1,311,121; July 22; v. 264; p. 670.
- Haentjens, Otto, Hazlet, Pa. Centrifugal pump. No. 1,312,979; Aug. 12; v. 265; p. 246.
- Haertel, Georg, Berlin, Germany. Artificial arm and hand. No. 1,322,108; Nov. 18; v. 268; p. 443.
- Haertel, Hans R., Franklin, Mass. Reclaiming rubber. No. 1,310,013; July 15; v. 264; p. 436.
- Haeseler, Charles H., Philadelphia, Pa. Pneumatic tool. No. 1,297,679; Mar. 18; v. 260; p. 477.
- Häfel, Oscar. (See Müller, Theodor, assignor.)
- Hafer, Edward C., Chambersburg, Pa. Shaking-grate. No. 1,293,417; Feb. 4; v. 259; p. 103.
- Hafer, Edward C., Chambersburg, Pa. Fire-tube-boiler blower. No. 1,301,255; Apr. 22; v. 261; p. 671.
- Haffner, Edwin, et al. (See Loder, Charles C., assignor.)
- Haffner, Gustav, et al. (See Loder, Charles C., assignor.)
- Haffner, Jacob P., Howardsville, Va. Valve for domestic and farm water-tanks. No. 1,302,033; Apr. 29; v. 261; p. 851.
- Haffner, Leopold C., assignor of one-half to H. de Boischevalier, Detroit, Mich. Hydraulic transmission. No. 1,318,143; Oct. 7; v. 267; p. 92.
- Haffner, Louis, et al. (See Loder, Charles C., assignor.)
- Hafford, Roscoe A. (See Rowden and Hafford.)
- Hafner, Edward P., and J. T. Robert, St. Louis, Mo. Brake-band. No. 1,310,617; July 22; v. 264; p. 577.
- Hagadone, Clinton A., Western Springs, Ill., assignor, by mesne assignments, to International Harvester Company. Corn-harvester. No. 1,303,298; May 13; v. 262; p. 182.
- Hagadone, Ray, Coeur d'Alene, Idaho. Saw-tooth gage. No. 1,317,873; Oct. 7; v. 267; p. 40.
- Hagan, Calvin H., assignor to C. F. Whittlesey, Seattle, Wash. Fireplace-furnace. No. 1,298,495; Mar. 25; v. 260; p. 678.
- Hagan Corporation, The. (See Ellman, Louis, assignor.)
- Hagan, Joseph B., Louisville, Ky. Spark-plug. No. 1,319,330; Oct. 21; v. 267; p. 405.
- Hagar, George D., Alton, Iowa. Grip-chain coupling. No. 1,295,738; Feb. 25; v. 259; p. 731.
- Hage, Frank J., assignor of one-half to A. A. Joseph, Goldsboro, N. C. Fastening device. No. 1,321,368; Nov. 11; v. 268; p. 254.
- Hagel, John, Goldfield, Nev. Rotary engine. No. 1,301,689; Apr. 22; v. 261; p. 754.
- Hagelstein, Christian H. T., assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,326,659; Dec. 30; v. 269; p. 805.
- Hagelstein, William, New York, N. Y. Clothespin. No. 1,326,497; Dec. 30; v. 269; p. 774.
- Hagemeyer, Henry F. (See Corl and Hagemeyer.)
- Hagen, Albert O., assignor of one-half to C. Bennett, Detroit, Mich. Stabilizer for airplanes. No. 1,314,395; Aug. 26; v. 265; p. 566.
- Hagen, G. H. (See Arnold, Henry, assignor.)
- Hagen, Harold F., assignor to B. F. Sturtevant Company, Boston, Mass. Centrifugal fan. No. 1,319,331; Oct. 21; v. 267; p. 405.
- Hagen, Herman N., Wilbur, Wash. Revolving-bar harrow. No. 1,319,955; Oct. 28; v. 267; p. 547.
- Hagen, Karl, Christiania, Norway. Apparatus for shooting band-grenades. No. 1,290,981; Jan. 14; v. 258; p. 258.
- Hagenbuch, Walter, Martinez, Calif., assignor to Shell Company of California. Wharf. No. 1,300,606; Apr. 15; v. 261; p. 497.
- Hager, William A., Texhoma, Okla. Chain. No. 1,305,897; June 3; v. 263; p. 126.
- Hagerman, Linus T., Sullivan, Ill. Radiator-humidifier. No. 1,309,519; July 8; v. 264; p. 307.
- Hagerstown Novelty Company. (See Demory, Alexander F., assignor.)
- Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Paper-guide for type-writing machines. No. 1,294,901; Feb. 18; v. 259; p. 515.
- Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Case-shift mechanism. No. 1,304,041; May 20; v. 262; p. 357.
- Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Paper-guide. No. 1,311,687; July 29; v. 264; p. 808.
- Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Paper-feeding device. No. 1,311,688; July 29; v. 264; p. 808.
- Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Ribbon-attaching means for typewriters. No. 1,311,689; July 29; v. 264; p. 809.
- Hagerstrom, John A., Scranton, Pa., assignor to Victor Typewriter Company, New York, N. Y. Type-writer ribbon-spool and mount therefor. No. 1,313,631; Aug. 19; v. 265; p. 386.
- Hagerstrom, John A., assignor to Victor Typewriter Company, Scranton, Pa. Carriage-truck. No. 1,315,490; Sept. 9; v. 266; p. 196.
- Hagerstrom, John A., assignor to Technical Supply Company, Scranton, Pa. Ruling-pen. No. 1,305,538; June 3; v. 263; p. 58.
- Hagerstrom, John A., assignor to Technical Supply Company, Scranton, Pa. Mathematical instrument and the like. No. 1,309,131; July 8; v. 264; p. 236.
- Hagerstrom, John A., assignor to Technical Supply Company, Scranton, Pa. Disappearing edge strip for drafting-tables and the like. No. 1,314,060; Aug. 26; v. 265; p. 501.
- Hagg, Carl J. J., Stockholm, Sweden. Teat-working mechanism of milking-machines. No. 1,298,694; Apr. 1; v. 261; p. 17.
- Hagg, Erik L. (See Westad and Hagg.)
- Haggengos, Frank. (See Ragland, Richard H., assignor.)
- Haggerty, Joseph A., Philadelphia, Pa. Hair curler and waver. No. 1,322,899; Nov. 25; v. 268; p. 644.
- Hagin Estate, Inc. (See Kendall, Edward D., assignor.)
- Hagstrom, Charles J., Warren, Pa. Liquid-sampler. No. 1,296,794; Mar. 11; v. 260; p. 256.
- Haglund, George W. (See Adix and Haglund.)
- Hagman, Edwin V., assignor to A. A. Ziegler, trustee, Boston, Mass. Electric motor. No. 1,301,650; Apr. 15; v. 261; p. 593.
- Hagman, Theodor, Syracuse, N. Y. Safety-clutch. No. 1,321,626; Nov. 11; v. 268; p. 303.
- Hagman, William J., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Planer and attachment therefor. No. 1,296,795; Mar. 11; v. 260; p. 256.
- Hagner, Frederick H., Houston, Tex. Foldable stool. No. 1,310,566; July 22; v. 264; p. 567.
- Hagstrom, Albert G., East Hartford, assignor to The Spafford Tool Works, Stanley E. Spafford, proprietor, Hartford, Conn. Quick-opening vise. No. 1,321,627; Nov. 11; v. 268; p. 303.
- Hagstrom, Joel E., Brooklyn, N. Y., assignor to Independent Filter Press Co., Inc., New York, N. Y. Construction of presses. No. 1,309,682; July 15; v. 264; p. 376.
- Hague, Alfred E., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,303,056; May 6; v. 262; p. 110.
- Hague, Floyd T., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Damping device for dynamo-electric machines. No. 1,298,695; Apr. 1; v. 261; p. 17.
- Hahl, Augustus L., Chicago, Ill. Transmission mechanism for clocks. No. 1,300,262; Apr. 15; v. 261; p. 425.
- Hahl, Augustus L., Chicago, Ill. Spring-motor for clocks. No. 1,321,821; Nov. 18; v. 268; p. 391.
- Hahl, Edgar J., New York, N. Y. Record-holder. No. 1,303,299; May 13; v. 262; p. 183.
- Hahn, Clement M., Valentine, Nebr. Identification-tag. No. 1,314,745; Sept. 2; v. 266; p. 51.
- Hahn, John H., Sauk City, Wis. Counter display case and cabinet. No. 1,313,865; Aug. 19; v. 265; p. 430.
- Hahn, William H., Minneapolis, Minn. Shock-absorber. No. 1,315,664; Sept. 9; v. 266; p. 225.
- Hahnemann, Paul R., Southington, Conn. Hand-punch. No. 1,305,898; June 3; v. 263; p. 126.



- Hahnemann, Paul R., assignor to The Peck, Stow & Wilcox Company, Southington, Conn. Metal-working tool. No. 1,322,109; Nov. 18; v. 268; p. 443.
- Hahnemann, Paul R., assignor to The Peck, Stow & Wilcox Company, Southington, Conn. Gage for metal-working machines. No. 1,322,110; Nov. 18; v. 268; p. 443.
- Haigh, Albert W., White Plains, N. Y. Apparatus for recording and promoting transactions. No. 1,290,739; Jan. 7; v. 258; p. 176.
- Haigh, Harry J., Stapleton, N. Y. Baking-pan. No. 1,290,982; Jan. 14; v. 258; p. 258.
- Haigh, Harry J., New York, N. Y. Baking-pan. No. 1,291,490; Jan. 14; v. 258; p. 376.
- Haigh, Harry J., New York, N. Y. Baking-pan. No. 1,291,491; Jan. 14; v. 258; p. 376.
- Haigh, Harry J., New York, N. Y. Baking-pan. No. 1,291,492; Jan. 14; v. 258; p. 376.
- Haigh, Harry J., New Brighton, N. Y. Baking-pan. No. 1,321,204; Nov. 11; v. 268; p. 223.
- Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Unloader for compressors. No. 1,291,854; Jan. 21; v. 258; p. 493.
- Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Unloader for compressors. (Reissue.) No. 14,662; June 10; v. 263; p. 304.
- Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-operated percussive drill. No. 1,317,874; Oct. 7; v. 267; p. 41.
- Haight, William H., Northfield, Minn. Knockdown furniture. No. 1,298,496; Mar. 25; v. 260; p. 678.
- Hain, Veit A., Chicago, Ill., assignor to General Electric Company. Substation apparatus. No. 1,315,830; Sept. 9; v. 266; p. 256.
- Haine, Eugene W. (See Haiss, Hugo, assignor.)
- Hainer, Whitfield J., assignor to Virginia Maritime Company, Providence, R. I. Calking-machine. No. 1,326,660; Dec. 30; v. 269; p. 805.
- Haines, Edward P., Philadelphia, Pa. Apparatus for distributing cars. No. 1,324,113; Dec. 9; v. 269; p. 212.
- Haines, Harry B. (See King, Joseph F., assignor.)
- Haines, John H. J., New York, N. Y. Phonographic reproducer. No. 1,310,946; July 22; v. 264; p. 637.
- Haines, Kendall S., Jacksonville, Fla. Take-down stanchion. No. 1,297,838; Mar. 18; v. 260; p. 512.
- Haines, Le Roy, Colchester, Ill. Sharpener for disk harrows. No. 1,303,057; May 6; v. 262; p. 110.
- Haines, Lewis B. and M. E., Tar River, Okla. Quilting-frame. No. 1,300,724; Apr. 15; v. 261; p. 523.
- Haines, Mary E. (See Haines, Lewis B. and M. E.)
- Haines, Stephen R., North Lewisburg, Ohio. Ironing-board. No. 1,306,893; June 17; v. 263; p. 375.
- Hairgrove, Francis M., assignor of one-half to I. J. Hairgrove, Brownville, Nebr. Ice-cutting device. No. 1,302,917; May 6; v. 262; p. 84.
- Hairgrove, Ira J. (See Hairgrove, Francis M., assignor.)
- Haiss, Hugo, Alliance, Ohio. Means for heating steering-wheels. No. 1,296,286; Mar. 4; v. 260; p. 107.
- Haiss, Hugo, assignor to The Morgan Engineering Company, Alliance, Ohio. Hydraulic intensifier. No. 1,312,322; Aug. 5; v. 265; p. 87.
- Haiss, Hugo, Alliance, assignor of one-half to E. W. Haine, Cleveland, Ohio. Means for heating the steering-wheels of automobiles, aeroplanes, motor-boats, and the like. No. 1,317,491; Sept. 30; v. 266; p. 667.
- Haist, Charles A., Oxnard, Calif. Paper-clip. No. 1,326,725; Dec. 30; v. 269; p. 817.
- Hajok, Joseph, East Pittsburgh, Pa. Phonograph. No. 1,308,065; July 1; v. 264; p. 10.
- Hakanson, John. (See Weber, Albert, assignor.)
- Hakanson, John, and A. Weber, Seattle, Wash. Manually-operated circular saw. No. 1,299,831; Apr. 8; v. 261; p. 305.
- Hake, Edward W. (See Kahn and Hake.)
- Hake, George, St. Louis, Mo. Garment-supporter. No. 1,319,703; Oct. 28; v. 267; p. 499.
- Hake, George, St. Louis, Mo. Garment-supporter. No. 1,324,347; Dec. 9; v. 269; p. 257.
- Hakius, George, Toledo, Ohio. Trombone-whistle. No. 1,311,690; July 29; v. 264; p. 809.
- Hal, Everett J., assignor to Metals Disintegrating Company, Inc., New York, N. Y. Method and apparatus for reducing metal to a finely-divided condition. No. 1,306,060; June 10; v. 263; p. 186.
- Halbert, August E., Battle Creek, Mich. Spraying device. No. 1,315,831; Sept. 9; v. 266; p. 257.
- Halleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Spacer. No. 1,290,180; Jan. 7; v. 258; p. 40.
- Halleib, Edward A., and F. H. Banner, assignors to North East Electric Company, Rochester, N. Y. Circuit-controller. No. 1,322,431; Nov. 18; v. 268; p. 505.
- Hallbreich, Charles, Maywood, N. J. Portable drill. No. 1,316,027; Sept. 16; v. 266; p. 307.
- Hallbreich, Charles, Maywood, N. J. Portable drill. No. 1,316,028; Sept. 16; v. 266; p. 307.
- Hald, Christian O., Dell Rapids, S. D. Harrow. No. 1,295,484; Feb. 25; v. 259; p. 672.
- Haldeman, Frederick, Portland, Oreg. Heating apparatus. No. 1,314,396; Aug. 26; v. 265; p. 566.
- Haldeman, Paul C., assignor to Lukens Steel Company, Coatesville, Pa. Table for rolling-mills and other conveyers of similar general construction. No. 1,321,303; Nov. 11; v. 268; p. 242.
- Hale, Arthur, Baltimore, Md., and R. H. Newell, Medina, N. Y. Washable slipper. No. 1,290,547; Jan. 7; v. 258; p. 129.
- Hale, Augustus S., Atlanta, Ga., assignor to L. O. Grice, Washington, D. C. Adjustable shade-bracket. No. 1,298,337; Mar. 25; v. 260; p. 643.
- Hale, Charles B., Park Ridge, Ill., assignor to Time-Systems Company, Portland, Me. Needle-valve. No. 1,305,539; June 3; v. 263; p. 58.
- Hale, Charles B., Park Ridge, Ill., assignor to Time-Systems Company, Portland, Me. Clock-case. No. 1,308,947; July 8; v. 264; p. 200.
- Hale, Clyde C., Pontiac, Mich. Spring-lifter. No. 1,298,934; Apr. 1; v. 261; p. 73.
- Hale, Frank R., Terre Haute, Ind. Tile or block. No. 1,290,740; Jan. 7; v. 258; p. 176.
- Hale, Fred E., and R. A. Dull, Omaha, Nebr., assignors by mesne assignments, to United States Carburetor Company. Float-valve for carbureters. No. 1,295,306; Feb. 25; v. 259; p. 630.
- Hale, Frederick M., Bromley, England. Explosive shell or similar body. No. 1,301,126; Apr. 22; v. 261; p. 645.
- Hale, Frederick M., Bromley, England. Explosive shell or similar body. No. 1,303,197; May 6; v. 262; p. 137.
- Hale, James E., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Cushion or solid tire for vehicle-wheels and making the same. No. 1,319,864; Oct. 28; v. 267; p. 530.
- Hale, James E., and E. F. Brunner, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Reinforcement for cushion-tires. No. 1,319,865; Oct. 28; v. 267; p. 512.
- Hale & Kilburn Corporation. (See Lambert, Albert L., assignor.)
- Hale & Kilburn Corporation. (See Ruchmann, Louis E., assignor.)
- Hale, Patrick, Lexington, Ky. Oiling device. No. 1,311,068; July 22; v. 264; p. 660.
- Hale, William T., Dodge City, Kans. Vulcanized composition. No. 1,300,263; Apr. 15; v. 261; p. 425.
- Halenar, Frank, Clayville, N. Y. Printing-machine. No. 1,302,034; Apr. 29; v. 261; p. 851.
- Haley, John S. (See Mulligan, Francis M., assignor.)
- Halinka, George, Detroit, Mich. Lock. No. 1,299,177; Apr. 1; v. 261; p. 128.
- Halivèges, Gustave A., Tarbes, France. Wick-holder. No. 1,312,536; Aug. 12; v. 265; p. 158.
- Hall, Albert E. (See Breyer, Hall, and Waltz.)
- Hall, Albert E. (See Breyer, Singmaster, and Hall.)
- Hall, Alfred. (See Kendall, Hazel C., assignor.)
- Hall, Arthur J. (See Simmon and Hall.)
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,292,599; Jan. 28; v. 258; p. 697.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,298,696; Apr. 1; v. 261; p. 17.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,300,383; Apr. 15; v. 261; p. 451.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay device. No. 1,302,035; Apr. 29; v. 261; p. 852.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rail-sander. No. 1,303,300; May 13; v. 262; p. 184.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,306,536; June 10; v. 263; p. 276.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,306,537; June 10; v. 263; p. 277.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,317,287; Sept. 30; v. 266; p. 628.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,321,522; Nov. 11; v. 268; p. 283.
- Hall, Arthur J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,324,813; Dec. 16; v. 269; p. 407.
- Hall, Arthur J., and L. M. Perkins, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,324,814; Dec. 16; v. 269; p. 408.
- Hall, Arthur J. (See Mardis and Hall.)
- Hall, Beverly F. (See Grannis, Laurence R., assignor.)
- Hall, Bordman, Brookline, Mass. Aerial railway or tramway. No. 1,295,485; Feb. 25; v. 259; p. 672.
- Hall, Burton P., Fanwood, N. J., and W. Grimshaw, Glenellyn, Ill., said Hall assignor to said Grimshaw. Fire-extinguisher. No. 1,294,260; Feb. 11; v. 259; p. 331.
- Hall, Carl A., Carthage, N. Y. Wire-stretcher. No. 1,311,390; July 29; v. 264; p. 753.



## Alphabetical list of patentees—Continued.

- Hall, Charles B., Oakland, Calif. Davenport-bed. No. 1,303,473; May 13; v. 262; p. 214.
- Hall, Charles H., assignor of one-half to M. Troutmann, Chicago, Ill. Hobby-horse. No. 1,295,739; Feb. 25; v. 259; p. 731.
- Hall, Charles S. (See Matthews and Hall.)
- Hall, Charles W., Keystone, W. Va. Shaker-grate. No. 1,307,777; June 24; v. 263; p. 569.
- Hall, Charles W., Youngstown, Ohio. Heater. No. 1,326,589; Dec. 30; v. 269; p. 792.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Charging system for storage batteries. No. 1,312,980; Aug. 12; v. 265; p. 246.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Constant-speed device. No. 1,323,761; Dec. 2; v. 269; p. 101.
- Hall, Clarence F., Atlanta, Ga. Traction attachment for motor-vehicles. No. 1,325,088; Dec. 16; v. 269; p. 458.
- Hall, Clement A. C., Valentine, Nebr. Brake mechanism for automobiles. No. 1,322,432; Nov. 18; v. 268; p. 505.
- Hall, Clyde A., Canonsburg, Pa. Indicator. No. 1,291,493; Jan. 14; v. 258; p. 376.
- Hall, David, Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regulating means for dynamo-electric machinery. No. 1,293,764; Feb. 11; v. 259; p. 214.
- Hall, Elbert J., Berkeley, Calif. Internal-combustion engine. No. 1,299,709; Apr. 8; v. 261; p. 276.
- Hall, Ernest L. (See Sadler and Hall.)
- Hall, Everett E. (See Merrill and Hall.)
- Hall, Everett J., assignor to Metals Disintegrating Company, Inc., New York, N. Y. Manufacture of metallic dust. No. 1,290,181; Jan. 7; v. 258; p. 40.
- Hall, Frederick N. (See Howe, Henry, and Hall.)
- Hall, George L., Oakland, Calif. Internal-combustion engine. No. 1,322,488; Nov. 18; v. 268; p. 516.
- Hall, Harry Y., San Francisco, Calif. Electric booster system. No. 1,324,348; Dec. 9; v. 269; p. 257.
- Hall, Henry L., and C. A. Sharp, Crickewood, England. Building and fitment of same for the application of finishes to surfaces. No. 1,313,376; Aug. 19; v. 265; p. 338.
- Hall, Holmes. (See Kelly, James G., assignor.)
- Hall, Holmes, et al. (See May, Harry E., assignor.)
- Hall, Isaiah, Birmingham, England. Means for melting and casting metal. No. 1,306,376; June 10; v. 263; p. 248.
- Hall, James C., Seattle, Wash. Life-saving rocket and grapnel. No. 1,315,721; Sept. 9; v. 266; p. 236.
- Hall, John H., Wellington, Colo. Safety parachute attachment for aeroplanes. No. 1,303,474; May 13; v. 262; p. 215.
- Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Signaling system for transmitting information from a sending-station to one or more receiving-stations. No. 1,306,593; June 10; v. 263; p. 287.
- Hall, John L. L., San Diego, Cal., assignor of one-half to G. A. Gilbert, Chicago, Ill. Illuminating door-knob. No. 1,291,494; Jan. 14; v. 258; p. 376.
- Hall, John W., London, England. Fuel-feeding device for internal-combustion engines. No. 1,290,182; Jan. 7; v. 258; p. 40.
- Hall, Julius R., Oak Park, assignor to Booth-Hall Company, Chicago, Ill. Electrode-holder. No. 1,318,992; Oct. 14; v. 267; p. 316.
- Hall, Lee, assignor to Andrew A. Kramer, Kansas City, Mo. Wagon-tank construction. No. 1,316,949; Sept. 23; v. 266; p. 528.
- Hall, Lewis M. M., Ealing, London, England. Aeroplane. No. 1,298,338; Mar. 25; v. 260; p. 643.
- Hall, Lewis S. (See Meeder, Herbert L., assignor.)
- Hall, Louis B., London, England. Fuel-feed-governing device. No. 1,290,183; Jan. 7; v. 258; p. 41.
- Hall, Louis B., London, England. Pump-operating mechanism. No. 1,292,457; Jan. 28; v. 258; p. 662.
- Hall, Mabel H., et al. (See Pons, Eugene, assignor.)
- Hall, Max R. and O. P., Atlanta, Ga. Fireless cooker. No. 1,298,202; Mar. 25; v. 260; p. 615.
- Hall, Menden L., Leesville, S. C. Nut-lock. No. 1,323,467; Dec. 2; v. 269; p. 46.
- Hall, Milan W., assignor to Hall-Seeley Motor Corporation, Baltimore, Md. Internal-combustion engine. No. 1,295,486; Feb. 25; v. 259; p. 672.
- Hall, Newton L., Anaconda, Mont. Ball or tube mill. No. 1,315,770; Sept. 9; v. 266; p. 245.
- Hall, Norman B., Norfolk, Va. Speed-measuring instrument. No. 1,307,629; June 24; v. 263; p. 542.
- Hall, Olin P. (See Hall, Max R. and O. P.)
- Hall, Olin P., Atlanta, Ga. Food-preserving apparatus. No. 1,294,096; Feb. 11; v. 259; p. 292.
- Hall, Peter, Pasadena, Calif. Hinge. No. 1,318,663; Oct. 14; v. 267; p. 253.
- Hall, Peter P.-G., Philadelphia, Pa. Combination of machine and stop device used therewith. No. 1,316,717; Sept. 23; v. 266; p. 486.
- Hall, Peter P.-G., Philadelphia, Pa. Planetary metal-working machine. No. 1,316,718; Sept. 23; v. 266; p. 486.
- Hall, Richard N., White Stone, Va. Attachment for cultivators. No. 1,318,144; Oct. 7; v. 267; p. 92.
- Hall, Robert G., Portland, Oreg. Device for human locomotion. No. 1,323,629; Dec. 2; v. 269; p. 76.
- Hall, Robert G., Portland, Oreg. Trench-pick. No. 1,323,630; Dec. 2; v. 269; p. 76.
- Hall, Roy B., Chicago, Ill. Battery-plate. No. 1,325,015; Dec. 16; v. 269; p. 444.
- Hall, Samuel N., Memphis, Tenn. Pipe-wrench. No. 1,320,615; Nov. 4; v. 268; p. 48.
- Hall-Seeley Motor Corporation. (See Hall, Milan W., assignor.)
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal-separator bowl-shell. No. 1,290,983; Jan. 14; v. 258; p. 258.
- Hall, Sidney Z., London, England. Internal-combustion engine. No. 1,298,497; Mar. 25; v. 260; p. 679.
- Hall Switch & Signal Co. (See Blake, Eli J., assignor.)
- Hall Switch & Signal Co. (See Buttridge, James H., assignor.)
- Hall Switch & Signal Co. (See Kendall and Field, assignors.)
- Hall Switch & Signal Co. (See Taylor, Herbert B., assignor.)
- Hall Switch & Signal Co. (See Thullen, Louis H., assignor.)
- Hall, Thomas C., et al. (See Anderson, John L., assignor.)
- Hall, William A. S., Muscatine, Iowa. Foldable steps or step-ladder. No. 1,305,281; June 3; v. 263; p. 10.
- Hall, William B., assignor to Union Railway Equipment Co., Chicago, Ill. Refrigerator-car. No. 1,290,548; Jan. 7; v. 258; p. 129.
- Hall, William H., Cicero, assignor to The American Hotel Register Co., Chicago, Ill. Loose-leaf hotel-register device. No. 1,302,654; May 6; v. 262; p. 33.
- Hall, William H., Cicero, assignor to Kohler Die & Specialty Company, De Kalb, Ill. Card-file. No. 1,316,719; Sept. 23; v. 266; p. 487.
- Hall, William L. (See Smith, Louis, assignor.)
- Hall, William R. D., Narberth, Pa. Treating artificial-silk waste for spinning into yarn. No. 1,303,301; May 13; v. 262; p. 184.
- Hall, William R. D., Narberth, Pa., assignor to S. Feather Company. Spinning imitation-mohair yarn. No. 1,303,302; May 13; v. 262; p. 184.
- Halladay, Lewis P., Streator, Ill. Automobile-bumper. No. 1,314,800; Sept. 2; v. 266; p. 61.
- Halladay, Lewis P., Streator, Ill. Shock-absorber for road-vehicles. No. 1,316,029; Sept. 16; v. 266; p. 308.
- Halladay, Lewis P., Streator, Ill. Bumper-bracket. No. 1,316,030; Sept. 16; v. 266; p. 308.
- Hallauer, Carl, Los Angeles, Cal. Combined centrifugal and air-lift pump. No. 1,295,981; Mar. 4; v. 260; p. 37.
- Halbauer, Ernest H. (See Ford and Halbauer.)
- Hallden, Karl W., Waterbury, Conn. Cutting-off machine. No. 1,302,791; May 6; v. 262; p. 58.
- Halleck, William C. (See Le Fevre, George A., assignor.)
- Hallenbeck, George E., assignor to Baker Brothers, Toledo, Ohio. Variable-speed gearing. No. 1,297,462; Mar. 18; v. 260; p. 432.
- Hallenbeck, George E., assignor to Baker Brothers, Toledo, Ohio. Machine-tool structure. No. 1,297,463; Mar. 18; v. 260; p. 432.
- Haller, Auguste, Casablanca, Morocco, Africa. Flooring in armored concrete without the use of false work or mold. No. 1,304,964; May 27; v. 262; p. 569.
- Haller, Carl T., managing director, Smögen, assignor to L. Laurin, Lysekil, Sweden. Muffler. No. 1,309,132; July 8; v. 264; p. 236.
- Hallett, Fred N., Seattle, assignor to Construction Appliance Company, King county, Wash. Plate-tightener. No. 1,320,225; Oct. 28; v. 267; p. 596.
- Hallin, Frank W., Cristobal, Canal Zone. Conduit-vice. No. 1,317,973; Oct. 7; v. 267; p. 59.
- Hallock, Eugene D., assignor to The Republic Metalware Company, Buffalo, N. Y. Muffle-charger. No. 1,308,013; June 24; v. 263; p. 613.
- Hallowell, Howard T., Philadelphia, Pa. Metal bench structure. No. 1,313,182; Aug. 12; v. 265; p. 285.
- Hallowell, Howard T., Philadelphia, Pa. Shaft-hanger. No. 1,320,045; Oct. 28; v. 267; p. 563.
- Hallowell, Howard T., Philadelphia, Pa. Shaft-hanger. No. 1,320,046; Oct. 28; v. 267; p. 564.
- Hallum, Henry A., Seattle, Wash. Electrolytic cells. No. 1,318,993; Oct. 14; v. 267; p. 316.
- Halper, Leo, Chicago, Ill. Composition of matter for manufacturing building-bricks. No. 1,317,288; Sept. 30; v. 266; p. 629.
- Halseth, Edwin A., assignor of one-half to E. Roe, Clearbrook, Minn. Composition of matter for tempering steel. No. 1,296,951; Mar. 11; v. 260; p. 293.
- Halsey, Arthur S., Washington, D. C., assignor to the Government of the United States. Ordinance. No. 1,295,740; Feb. 25; v. 259; p. 731.
- Halsey, Edward S., Yonkers, N. Y. Individual thermostat control for radiators. No. 1,312,113; Aug. 5; v. 265; p. 49.
- Halsey, Norman W., assignor to A. G. Spalding & Bros., New York, N. Y. Line-marking machine. No. 1,326,726; Dec. 30; v. 269; p. 817.



- Halstead, Arnold S., assignor to J. P. Reilly, Los Angeles, Calif. Automobile-headlight. No. 1,320,546; Nov. 4; v. 268; p. 36.
- Halstead, Frederick H., Worcester, assignor to Rivett Lathe and Grinder Company, Faneuil, Mass. Lathe-tool. No. 1,299,710; Apr. 8; v. 261; p. 277.
- Halstead, Frederick H., Worcester, assignor to Rivett Lathe and Grinder Company, Faneuil, Mass. Oscillating grinder. No. 1,299,711; Apr. 8; v. 261; p. 277.
- Halstead, Frederick H., Worcester, assignor to Rivett Lathe and Grinder Company, Faneuil, Mass. Lathe-tool. No. 1,299,712; Apr. 8; v. 261; p. 277.
- Halstead, Frederick H., Worcester, assignor to Rivett Lathe and Grinder Company, Faneuil, Mass. Grinder. No. 1,299,713; Apr. 8; v. 261; p. 278.
- Halstead, Frederick H., Boston, assignor to Rivett Lathe and Grinder Company, Faneuil, Mass. Grinder. No. 1,299,714; Apr. 8; v. 261; p. 278.
- Halstead, Frederick H., Boston, assignor to Rivett Lathe and Grinder Company, Faneuil, Mass. Grinder. No. 1,299,715; Apr. 8; v. 261; p. 278.
- Halstead, Frederick H., Boston, assignor to Rivett Lathe and Grinder Company, Faneuil, Mass. Feed mechanism. No. 1,299,716; Apr. 8; v. 261; p. 278.
- Halstead, Frederick H., Boston, assignor to Rivett Lathe and Grinder Company, Faneuil, Mass. Feed mechanism. No. 1,299,717; Apr. 8; v. 261; p. 278.
- Haltman, John K. (See Mott, Meyer, Haltman, and Wheawill.)
- Haltman, Lee E. (See Folsom and Haltman.)
- Haltman, Adolf, assignor of one-half to A. Labounty, Topeka, Kans. Chuck. No. 1,321,739; Nov. 11; v. 268; p. 324.
- Halvorsen, Birger F., assignor to Norsk Hydro-elektrisk Kvaelfstofaktieselskab, Christiania, Norway. Producing concentrated nitrous gases. No. 1,316,950; Sept. 23; v. 266; p. 528.
- Halvorsen, Birger F., and C. Hørbye, Christiania, Norway. Manufacture of sulfur dyes. No. 1,310,751; July 22; v. 264; p. 602.
- Halverson, Hellick G. (See Lee and Halverson.)
- Halverson, William H., F. Wilcock, and H. Treichel, Merced, Calif. Constructing concrete buildings. No. 1,326,400; Dec. 30; v. 269; p. 756.
- Ham, Edwin W., Worcester, Mass. Cable-conduit. No. 1,315,550; Sept. 9; v. 266; p. 206.
- Hamachek, Frank, Kewaunee, Wis. Bearing. No. 1,298,697; Apr. 1; v. 261; p. 18.
- Hamachek, Frank, Kewaunee, Wis. Pea-separator. No. 1,304,765; May 27; v. 262; p. 533.
- Haman, Howard H., and W. E. Schmidt, assignors to The Warren Featherbone Co., Three Oaks, Mich. Belting. No. 1,325,788; Dec. 23; v. 269; p. 605.
- Haman, John D., Wilmington, Del. Pipe-wrench. No. 1,308,353; July 1; v. 264; p. 63.
- Hamann, Henry, Chicago, Ill. Ear-trumpet. No. 1,302,036; Apr. 29; v. 261; p. 852.
- Hamann, William, Irondequoit, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for marking shoe-uppers. No. 1,317,702; Oct. 7; v. 267; p. 8.
- Hambay, James T., New York, N. Y. Railway-signal. No. 1,299,718; Apr. 8; v. 261; p. 279.
- Hambek, Frank M., Lidgerwood, N. D. Change-speed gearing. No. 1,312,981; Aug. 12; v. 265; p. 246.
- Hamblin & Russell Manufacturing Company. (See Ryserson, Eugene H., assignor.)
- Hambuechen, Carl, Belleville, Ill., assignor, by mesne assignments, to Burgess Battery Company, Madison, Wis. Dry cell and its manufacturing. No. 1,292,764; Jan. 28; v. 258; p. 735.
- Hamburger, Aron, Mayfair, London, England. Color photography. No. 1,308,708; July 1; v. 264; p. 128.
- Hamburger, Aron, Mayfair, London, England. Treating cinematograph-films. No. 1,308,709; July 1; v. 264; p. 128.
- Hamburger, Aron, Mayfair, London, England. Developing, coloring, and washing tank for two-sided photographic films. No. 1,308,710; July 1; v. 264; p. 129.
- Hamburger, Lodewijk, and D. Lely, Jr., Eindhoven, Netherlands. Electric incandescent lamp. No. 1,317,492; Sept. 30; v. 266; p. 667.
- Hamburger, Mark, Baltimore, Md. Clear-vision and glaroscope attachment for wind-shields. No. 1,304,766; May 27; v. 262; p. 533.
- Hamburger, Mark, Baltimore, Md. Clear-vision and glaroscope attachment for wind-shields. No. 1,326,448; Dec. 30; v. 269; p. 765.
- Hamel, Albert H. (See Shepherd, Arthur W., assignor.)
- Hamel, Matilda, Waterloo, Ontario, Canada. Cream-bottle. No. 1,300,607; Apr. 15; v. 261; p. 498.
- Hamel, Matilda, Waterloo, Ontario, Canada. Sewing-machine leaf. No. 1,316,720; Sept. 23; v. 266; p. 487.
- Hamel Shoe Machinery Company. (See Angell, Otis R., assignor.)
- Hamel Shoe Machinery Company. (See Scarlett and Adams, assignors.)
- Hamelin, Joseph, Blenville, Quebec, Canada. Rotary steam-engine. No. 1,321,369; Nov. 11; v. 268; p. 254.
- Hamélius, Edouard, Marseille, France. Forming sand foundry-cores and substance for use therein. No. 1,308,524; July 1; v. 264; p. 94.
- Hamill, Patrick J., Boswell, Pa. Wheel. No. 1,299,332; Apr. 1; v. 261; p. 163.
- Hamill, Patrick J., Boswell, Pa. Tire. No. 1,299,333; Apr. 1; v. 261; p. 163.
- Hamilton, Belton T., London, England. Gun-mounting. No. 1,300,264; Apr. 15; v. 261; p. 425.
- Hamilton, Cameron G., assignor of one-half to C. K. Sturtevant, Seattle, Wash. Indicator for vehicles. No. 1,292,765; Jan. 28; v. 258; p. 735.
- Hamilton, Clifford C. (See Hutchinson and Hamilton.)
- Hamilton, De Forest. (See Dickerson and Hamilton.)
- Hamilton, Ernest L., assignor of one-half to J. N. Collins, Minneapolis, Minn. Candy-sanding machine. No. 1,315,665; Sept. 9; v. 266; p. 226.
- Hamilton, Harry D., Kenosha, and J. Goodman, Racine, Wis. Demountable rim. No. 1,302,156; Apr. 29; v. 261; p. 874.
- Hamilton, Harry G. (See Medley, Harry L., assignor.)
- Hamilton, Harry W., Detroit, Mich., assignor to Hamilton Manufacturing Company, Indianapolis, Ind. Fuel-feed system. No. 1,306,377; June 10; v. 263; p. 248.
- Hamilton, Henry M., assignor of one-half to H. H. Engsborg, Lakemills, Wis. Propelling mechanism for vessels. No. 1,321,304; Nov. 11; v. 268; p. 242.
- Hamilton, Herbert G. (See Hewston and Hamilton.)
- Hamilton, Jacob S., Harlan, Iowa. Feed-agitator for feed-troughs. No. 1,311,691; July 29; v. 264; p. 809.
- Hamilton, John E., Harrow, England. Electric controller particularly for use in connection with electrically-propelled vehicles. No. 1,322,562; Nov. 25; v. 268; p. 581.
- Hamilton, John H., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,319,278; Oct. 21; v. 267; p. 395.
- Hamilton, John M., and P. A. Buoy, Los Angeles, Calif. Roller-bearing spring-insert. No. 1,313,183; Aug. 12; v. 265; p. 286.
- Hamilton, John R., Yonkers, assignor to Sypho-Chemical Sprinkler Corporation, Croton-on-Hudson, N. Y. Emergency shut-off device for chemical extinguishing apparatus. No. 1,298,203; Mar. 25; v. 260; p. 615.
- Hamilton, John R., Yonkers, N. Y., assignor to Sypho-Chemical Sprinkler Corporation, Croton-on-Hudson, N. Y. Chemical fire-extinguishing apparatus. No. 1,303,058; May 6; v. 262; p. 110.
- Hamilton, John R., Yonkers, assignor to Sypho-Chemical Sprinkler Corporation, Croton-on-Hudson, N. Y. Automatic fire-extinguishing apparatus. No. 1,313,292; Aug. 19; v. 265; p. 322.
- Hamilton, Karl M., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Composite car end. No. 1,297,153; Mar. 11; v. 260; p. 337.
- Hamilton Manufacturing Company, The. (See Geimer, Anthony P., assignor.)
- Hamilton Manufacturing Company. (See Hamilton, Harry W., assignor.)
- Hamilton, Paul H., Fort Worth, Tex., assignor, by mesne assignments, to Esda Manufacturing Company, Wilmington, Del. Automatic control for gas water-heaters. No. 1,306,812; June 17; v. 263; p. 360.
- Hamilton, Paul H., Fort Worth, Tex., assignor, by mesne assignments, to Esda Manufacturing Company, Wilmington, Del. Automatic gas control for gas water-heaters. No. 1,317,785; Oct. 7; v. 267; p. 24.
- Hamilton, Paul H., assignor to The Augmore Manufacturing Co., Cleveland, Ohio. Fuel-oil burner. No. 1,324,815; Dec. 16; v. 269; p. 408.
- Hamilton, Paul H., assignor to The Augmore Manufacturing Co., Cleveland, Ohio. Holder for oil-burners. No. 1,324,816; Dec. 16; v. 269; p. 408.
- Hamilton, Sill, Carrollton, Ala. Hammer. No. 1,303,792; May 13; v. 262; p. 273.
- Hamilton, Thomas S., Portland, Oreg., assignor of one-half to W. E. Merrill, Kansas City, Mo. Lubricating-strip for leaf-springs. No. 1,323,856; Dec. 2; v. 269; p. 119.
- Hamilton, Walter B., Yorkshire, England. Manufacture of gray cast-iron. No. 1,296,384; Mar. 4; v. 260; p. 129.
- Hamilton, Wilbur F., et al. (See Eckenroth, Philip, assignor.)
- Hamilton, William E., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining apparatus. No. 1,303,303; May 13; v. 262; p. 184.
- Hamilton, William L., Tottenville, N. Y. Envelop. No. 1,306,061; June 10; v. 263; p. 187.
- Hamilton, William R., Dewey, Okla. Turbine-governing mechanism. No. 1,295,027; Feb. 18; v. 259; p. 543.
- Hamilton, William R., and F. W. Berney, Dewey, Okla., assignors, by mesne assignments, to said Hamilton, Governor-controlled valve-operating mechanism. No. 1,293,765; Feb. 11; v. 259; p. 214.
- Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. System of automatic control for motors. No. 1,295,487; Feb. 25; v. 259; p. 672.
- Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. Electrical system of power transmission. No. 1,304,178; May 20; v. 262; p. 381.
- Hamler, Peter J., Chicago, Ill. Fertilizer-drier. No. 1,321,628; Nov. 11; v. 268; p. 303.



## Alphabetical list of patentees—Continued.

- Hamlin, Alfred J., Baltimore, Md. Deep-well pumping-head. No. 1,320,467; Nov. 4; v. 268; p. 21.
- Hamlin, Allen L. (See Rose and Hamlin.)
- Hamlin, Ben M., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Hatbox for trunks. No. 1,313,223; Aug. 12; v. 265; p. 294.
- Hamlin, Fred J., Kansas City, Mo. Deep-well pump. No. 1,294,654; Feb. 18; v. 259; p. 458.
- Hamlin, John. (See Lindstrom and Makela, assignors.)
- Hamlin, Marston L., Bloomfield, N. J., assignor to American Synthetic Dyes Incorporated. Recovering benzene monosulfonic acid and producing phenol. No. 1,309,683; July 15; v. 264; p. 376.
- Hamm, Peter, Milwaukee, Wis. Making electromagnets. No. 1,315,365; Sept. 9; v. 266; p. 173.
- Hamm, Phillip T., assignor of one-third to F. C. Hossie and H. Wild, Detroit, Mich. Tire-chain. No. 1,325,321; Dec. 16; v. 269; p. 502.
- Hamm, Phillip T., assignor of one-third to F. C. Hossie and H. Wild, Detroit, Mich. Non-skid chain. No. 1,325,322; Dec. 16; v. 269; p. 502.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Lamp-burner. No. 1,309,089; July 8; v. 264; p. 228.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Co. Lamp-chimney holder. No. 1,311,888; Aug. 5; v. 265; p. 7.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Co. Lamp-chimney holder. No. 1,319,389; Oct. 21; v. 267; p. 417.
- Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Co., Chicago, Ill. Lamp-chimney holder. No. 1,319,390; Oct. 21; v. 267; p. 417.
- Hamm, William S., Hubbard Woods, and W. F. Stewart, assignors to The Adams & Westlake Company, Chicago, Ill. Solder cutter and feeder. No. 1,296,656; Mar. 11; v. 260; p. 224.
- Hamm, William S., Hubbard Woods, and W. F. Stewart, assignors to The Adams & Westlake Company, Chicago, Ill. Device for forming, assembling, and holding sheet-metal forms. No. 1,309,088; July 8; v. 264; p. 228.
- Hammark, William H., Hagerstown, Md. Violin breast-rest. No. 1,323,468; Dec. 2; v. 269; p. 46.
- Hamman, George. (See Carmichael, Robert E., assignor.)
- Hammarstrom, Erik, Brooklyn, N. Y. Pressure safety-trippler. No. 1,304,965; May 27; v. 262; p. 569.
- Hammell, John O., Chicago, Ill. Steam-trap. No. 1,304,562; May 27; v. 262; p. 495.
- Hammell, John O., Chicago, Ill. Steam-trap. No. 1,304,563; May 27; v. 262; p. 495.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Scallop jar-closure. No. 1,293,088; Feb. 4; v. 259; p. 27.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Scallop cap. No. 1,308,745; July 1; v. 264; p. 135.
- Hammer, Charles, Queens, assignor, by direct and mesne assignments, to American Metal Cap Co., Brooklyn, N. Y. Scallop cap. No. 1,308,746; July 1; v. 264; p. 135.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Jar-closure. No. 1,316,231; Sept. 16; v. 266; p. 345.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Process-closure for jars. No. 1,321,205; Nov. 11; v. 268; p. 223.
- Hammer, Edwin B. (See Knott, Jungbluth, and Hammer.)
- Hammer, Frederick W. E. T. (See Elerick, Fred J., assignor.)
- Hammer, Gustaf, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Twine tension for binders. No. 1,290,984; Jan. 14; v. 258; p. 258.
- Hammer, Hans O., assignor to Samuel Olson & Co., Chicago, Ill. Automatic screw-machine. No. 1,324,249; Dec. 9; v. 269; p. 237.
- Hammer, Lloyd R., Gaines, W. Va. Mail-box. No. 1,316,837; Sept. 23; v. 266; p. 508.
- Hammer, Wilbur J., Kansas City, Mo. Base-ball game-board. No. 1,297,839; Mar. 18; v. 260; p. 512.
- Hammermill Paper Company. (See Finster and Wilson, assignors.)
- Hammers, Anton, Dent, Minn. Motor-cycle sleigh. No. 1,306,428; June 10; v. 263; p. 257.
- Hammers, Henry A., Arlington, Minn. Equalizer shock-absorber for gang and sulky plows. No. 1,294,655; Feb. 18; v. 259; p. 458.
- Hammers, Morgan J., Detroit, Mich. Auxiliary seat for vehicles. No. 1,320,854; Nov. 4; v. 268; p. 93.
- Hammerschmidt, Louis M., trustee. (See Wescott, Dana E., assignor.)
- Hammersmith, Oscar. (See McKee, Raymond E., assignor.)
- Hammesfahr, Julius, assignor to The R. Neumann Hardware Co., Newark, N. J. Bag-frame fastener. No. 1,293,418; Feb. 4; v. 259; p. 104.
- Hammett, Edward, Sheboygan, Wis. Bedstead. No. 1,291,855; Jan. 21; v. 258; p. 493.
- Hammetter, August H., et al. (See Schloerb, Albert P., assignor.)
- Hammitt, Marvin L., Carbonite, Idaho. Surveyor's transit. No. 1,298,498; Mar. 25; v. 260; p. 679.
- Hammond, Alice R. (See Cunningham and Hammond.)
- Hammond, Amil R. (See Carswell and Hammond.)
- Hammond, Benjamin R., Beloit, assignor to M. E. Rasmussen, Janesville, Wis. Railway safety device. No. 1,324,893; Dec. 16; v. 269; p. 421.
- Hammond, Edward A., Burbank, S. D. Strawberry-plant support. No. 1,319,769; Oct. 28; v. 267; p. 512.
- Hammond, Elmer C., Crawfordsville, Ind., and C. F. Nelson, Minneapolis, Minn. Tractor. No. 1,297,154; Mar. 11; v. 260; p. 387.
- Hammond, Frank S., Cleveland, Ohio. Internal-combustion engine. No. 1,293,766; Feb. 11; v. 259; p. 215.
- Hammond, Grant, Hartford, Conn., assignor to Dalton Arms Corporation, New York, N. Y. Magazine for firearms. No. 1,290,833; Jan. 7; v. 258; p. 197.
- Hammond, Grant, Hartford, Conn., assignor to Dalton Arms Corporation, New York, N. Y. Extractor mechanism for firearms. No. 1,290,834; Jan. 7; v. 258; p. 197.
- Hammond, Grant, Hartford, Conn., assignor to Dalton Arms Corporation, New York, N. Y. Firearm. No. 1,294,451; Feb. 18; v. 259; p. 412.
- Hammond, Grant, Hartford, Conn., assignor to Dalton Arms Corporation, New York, N. Y. Firearm. No. 1,294,452; Feb. 18; v. 259; p. 412.
- Hammond, Grant, Hartford, Conn., assignor to Dalton Arms Corporation, New York, N. Y. Means for attaching gun-sights to firearms. No. 1,294,453; Feb. 18; v. 259; p. 412.
- Hammond, Grant, Hartford, Conn., assignor to The Dalton Arms Corporation, New York, N. Y. Firearm. No. 1,294,454; Feb. 18; v. 259; p. 413.
- Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Magazine catch and release. No. 1,307,492; June 24; v. 263; p. 518.
- Hammond, Ira A. (See Sopher and Hammond.)
- Hammond, John H., Gloucester, Mass. War game. No. 1,292,766; Jan. 28; v. 258; p. 736.
- Hammond, John H., Jr., Gloucester, Mass. System of telydynamic control. No. 1,295,741; Feb. 25; v. 259; p. 731.
- Hammond, John H., Jr., Gloucester, Mass. System of telydynamic control. No. 1,295,742; Feb. 25; v. 259; p. 731.
- Hammond, John H., Jr., Gloucester, Mass. Radio telegraphy and telephony. No. 1,296,504; Mar. 4; v. 260; p. 153.
- Hammond, John H., Jr., Gloucester, Mass. System of telydynamic control. No. 1,301,690; Apr. 22; v. 261; p. 754.
- Hammond, John H., Jr., Gloucester, Mass. Aerial for automobile torpedoes. No. 1,306,145; June 10; v. 263; p. 202.
- Hammond, John H., Jr., Gloucester, Mass. Electric-wave-relaying system. No. 1,313,860; Aug. 19; v. 265; p. 429.
- Hammond, John H., Jr., Gloucester, Mass. Radioselective system. No. 1,318,342; Oct. 7; v. 267; p. 131.
- Hammond, John H., Jr., Gloucester, Mass. System of radiodirective control. No. 1,319,068; Oct. 21; v. 267; p. 355.
- Hammond, John H., Jr., Gloucester, Mass. System of telydynamic control. No. 1,319,678; Oct. 21; v. 267; p. 472.
- Hammond, John H., Jr., Gloucester, Mass. Radio telegraphy and telephony. No. 1,320,685; Nov. 4; v. 268; p. 61.
- Hammond, John H., Jr., Gloucester, Mass. System of acoustic signaling. No. 1,320,686; Nov. 4; v. 268; p. 61.
- Hammond, John H., Jr., Gloucester, Mass. Selective wave-transmission system. No. 1,326,727; Dec. 30; v. 269; p. 818.
- Hammond, Mary M., Kansas City, Mo. Display device. No. 1,324,349; Dec. 9; v. 269; p. 257.
- Hammond, Robert S., assignor to American Steel Foundries, Chicago, Ill. Centering device. No. 1,323,266; Dec. 2; v. 269; p. 8.
- Hammond, Theodore A., assignor of one-half to W. P. Hammond, Passaic, N. J. Pressure-regulator. No. 1,296,657; Mar. 11; v. 260; p. 224.
- Hammond, Thomas C., et al. (See Ambrose, Jennings G., assignor.)
- Hammond, Wilberforce B., Auburndale, Mass. Combined heating and sprinkler system. No. 1,316,541; Sept. 16; v. 266; p. 405.
- Hammond, William P. (See Hammond, Theodore A., assignor.)
- Hammond, William P. (See Moses, Edmund Q., assignor.)
- Hammond, William P., Passaic, N. J. Connector. No. 1,294,656; Feb. 18; v. 259; p. 458.
- Hammond, William P., Passaic, N. J. Glass-covered dashboard for automobiles. No. 1,296,182; Mar. 4; v. 260; p. 84.
- Hammond, William P., Passaic, N. J., assignor to A. Schrader's Son, Inc., New York, N. Y. Dust-cap for valves of pneumatic tires. No. 1,302,792; May 6; v. 262; p. 53.
- Hammond, William P., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation. Stock-box. No. 1,316,572; Sept. 23; v. 266; p. 459.



- Hammrich, Joseph F., Cleveland, Ohio. Self-locking bolt. No. 1,321,033; Nov. 4; v. 268; p. 127.
- Hamond, Matthew. (See Simmons, Ben, assignor.)
- Hamor, William A., and C. W. Trigg, Pittsburgh, Pa., assignors to J. E. King, Detroit, Mich. Preserving fugacious components of foods. No. 1,292,458; Jan. 28; v. 258; p. 662.
- Hampe, George S., Alhambra, Calif. Rotary tooth-brush. No. 1,320,616; Nov. 4; v. 268; p. 48.
- Hampe, Honoré, Neuilly-sur-Seine, France. Backing-off lathe. No. 1,320,468; Nov. 4; v. 268; p. 21.
- Hampden Cloncurry Copper Mines, The. (See Huntley, Earle S., assignor.)
- Hampsher, Wallace S., Chicago, Ill. Curtain-fixture. No. 1,313,237; Aug. 12; v. 265; p. 296.
- Hampson, John J., London, England. Machine for filling or loading fabrics. No. 1,313,686; Aug. 19; v. 265; p. 396.
- Hampton, Arlie. (See Bailey, John F., assignor.)
- Hampton, Armstu P., et al. (See Love, Sandy H., assignor.)
- Hampton, Frank H. F., Sewell, Chile, assignor of one-half to W. W. Stenning, London, England. Smelting process and apparatus. No. 1,315,551; Sept. 9; v. 266; p. 206.
- Hampton, Homer J. P., Jersey City, N. J. Register. No. 1,301,691; Apr. 22; v. 261; p. 755.
- Hamrick, Alfred N., Crawford, Kans. Tractor. No. 1,309,684; July 15; v. 264; p. 376.
- Hamrick, Walter, Emory, Tex. Cotton-sack hanger. No. 1,310,947; July 22; v. 264; p. 637.
- Hanahan, James L., Columbia, S. C. Starting-crank for motor-vehicles. No. 1,300,384; Apr. 15; v. 261; p. 451.
- Hanak, Edward, Houston, Tex. Conveyor system. No. 1,297,680; Mar. 18; v. 260; p. 478.
- Hanak, Edward, Houston, Tex. Cable-gripping mechanism for overhead conveyor systems. No. 1,297,681; Mar. 18; v. 260; p. 478.
- Hanau, Rudolph L., assignor to Hydrex Engineering Corp., Buffalo, N. Y. Flow-indicator. No. 1,325,514; Dec. 23; v. 269; p. 554.
- Hance, Isaac I., West Newton, Mass. Aisle-lighting device. No. 1,295,488; Feb. 25; v. 259; p. 673.
- Hancher, Harry H. (See Daellenbach, Carl R., assignor.)
- Hancock, Charles E., assignor of one-third to L. Larrabee, Liberal, Kans. Sleeping-trailer. No. 1,318,994; Oct. 14; v. 267; p. 316.
- Hancock, Harry H., Swampscott, assignor of one-half to A. S. Webster, Halifax, Mass. Lining apparatus. No. 1,297,840; Mar. 18; v. 260; p. 512.
- Hancock, Harry H., Swampscott, assignor of one-half to A. S. Webster, Halifax, Mass. Printing. No. 1,297,841; Mar. 18; v. 260; p. 512.
- Hancock, Horace G. (See Carpmill and Hancock.)
- Hancock, Lee B. (See Jenkins, Charles W., assignor.)
- Hancock, Thomas F., Seymour, Conn. Feed-gate for platen-presses. No. 1,322,563; Nov. 25; v. 268; p. 582.
- Hancock, Willard A., Summitville, Iowa. Hand-plow. No. 1,323,184; Nov. 25; v. 268; p. 699.
- Hancock, William D., Springville, Tenn. Lifter. No. 1,309,324; July 8; v. 264; p. 271.
- Hand, Emilie. (See Rushton and Hand.)
- Hand, Ernest A., and F. A. Wygant, assignors to The A. J. Deer Company, Incorporated, Hornell, N. Y. Feed mechanism for slicing-machines. No. 1,310,752; July 22; v. 264; p. 602.
- Hand, Jay A. (See Kuhn and Hand.)
- Hand, Jay A. (See Kuhn, Hand, and Spiess.)
- Hand, Thomas W., assignor to Davy Brothers Limited, Sheffield, England. Hydraulic press, shears, and the like. No. 1,310,795; July 22; v. 264; p. 611.
- Hand, Thomas W., assignor to Davy Brothers Limited, Sheffield, England. Steam hydraulic intensifier. No. 1,323,590; Dec. 2; v. 269; p. 69.
- Hand, Townsend, Orlando, Fla. Shoe-heel. No. 1,295,892; Mar. 4; v. 260; p. 17.
- Handel, Sender, St. Louis, Mo. Fleshing-machine. No. 1,325,988; Dec. 23; v. 269; p. 642.
- Handler, Eugene, Newark, N. J., assignor to General Lead Batteries Company. Storage-battery grid. No. 1,293,419; Feb. 4; v. 259; p. 104.
- Handley Page Limited. (See Page, Frederick H., assignor.)
- Handley, Samuel E., Chicago, Ill. Machinist's testing device. No. 1,313,086; Aug. 12; v. 265; p. 267.
- Handley, William, Providence, assignor to Tubular Woven Fabric Company, Pawtucket, R. I. Electric conduit. No. 1,296,952; Mar. 11; v. 260; p. 293.
- Handley, William, Providence, assignor to Tubular Woven Fabric Company, Pawtucket, R. I. Tubular electrical conductor. No. 1,300,265; Apr. 15; v. 261; p. 425.
- Handschiegl, Max. (See Wyckoff and Handschiegl.)
- Handschiegl, Max, Los Angeles, Cal. Cinematographic-film-coloring machine. No. 1,295,028; Feb. 18; v. 259; p. 543.
- Handschiegl, Max, Los Angeles, Calif. Producing colored moving-picture films. No. 1,316,791; Sept. 23; v. 266; p. 499.
- Handshy, Charles F. (See Potter and Handshy.)
- Handy, James O., assignor to Pittsburgh Testing Laboratory, Pittsburgh, Pa. Treating used lubricants. No. 1,295,308; Feb. 25; v. 259; p. 631.
- Handy, John P., Long Prairie, Minn. Steering-wheel control. (Reissue.) No. 14,613; Mar. 18; v. 260; p. 544.
- Handy, John R. (See Davidson and Handy.)
- Handy, Lucien H., Oakland, Cal. Flushing apparatus. No. 1,292,313; Jan. 21; v. 258; p. 607.
- Handy Manufacturing Co., The. (See Schaumburg, Charles, assignor.)
- Haneberg, Louis, Bullrun, Ore. Plane. No. 1,291,856; Jan. 21; v. 258; p. 493.
- Hanes, Harvey M. (See Gilmore and Hanes.)
- Haney, Adam H., Chillicothe, Ohio. Combined costumer and wardrobe. No. 1,323,469; Dec. 2; v. 269; p. 46.
- Haney, Burton E., Medford, Ore. Auto-bed. No. 1,304,966; May 27; v. 262; p. 569.
- Haney, Oliver A., Cleveland, Okla. Combination tubing-rig and casing-head. No. 1,297,562; Mar. 18; v. 260; p. 453.
- Hanfig, Harris, Charlestown, Mass. Combination-lock. No. 1,320,139; Oct. 28; v. 267; p. 581.
- Hangliger, Edward R., Washington, D. C. Bathtub-cock. No. 1,318,204; Oct. 7; v. 267; p. 104.
- Hanig, Ernst, Union, assignor to A. T. Huser, North Bergen, N. J. Double-lift jacquard-machine. No. 1,299,461; Apr. 8; v. 261; p. 221.
- Hanish, Richard D., Columbus, Ohio. Machine for renovating picture-films. No. 1,324,350; Dec. 9; v. 269; p. 257.
- Hankammer, John F., Des Moines, Iowa. Screen and window. No. 1,325,089; Dec. 16; v. 269; p. 458.
- Hankar, Raoul E., Washington, D. C. Apparatus for separating liquids. No. 1,291,857; Jan. 21; v. 258; p. 494.
- Hanke, August, Chicago, Ill. Toy vehicle. No. 1,293,420; Feb. 4; v. 259; p. 104.
- Hanker, Frederic C. (See Moss, Hanker, Travers, and Conrad.)
- Hanker, Frederick C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of regulation. No. 1,306,894; June 17; v. 263; p. 375.
- Hanks, George S., Atchison, Kans. Telescoping clothes-prop. No. 1,310,336; July 15; v. 264; p. 494.
- Hanks, Walter W., Eunice, assignor of one-eighth to C. B. Stagg, Church Point, La. Music-leaf turner and rack. No. 1,296,385; Mar. 4; v. 260; p. 129.
- Hankwitz, Herman, Ouachita, Ark. Combined garment and hat rack. No. 1,305,210; May 27; v. 262; p. 616.
- Hanlan, Angus A., Gary, Ind. Ingot-tongs. No. 1,306,255; June 10; v. 263; p. 226.
- Hanlon, John A. (See Horan, John B., assignor.)
- Hanlon, John H., Somerville, Mass. Drifting-valve for locomotives. No. 1,312,906; Aug. 12; v. 265; p. 231.
- Hanman, John, Bayswater, assignor to Price Service & Company, London, England. Auxiliary air-valve for internal-combustion engines. No. 1,298,935; Apr. 1; v. 261; p. 73.
- Hanna, Carl M., Del Norte, Colo. Antifreezing hydrant. No. 1,322,014; Nov. 18; v. 268; p. 426.
- Hanna, David H. (See White and Hanna.)
- Hanna Engineering Works. (See Krause, William P., assignor.)
- Hanna, Robert, Woodbridge, Ontario, Canada. Binder. No. 1,326,192; Dec. 30; v. 269; p. 717.
- Hanna, Troy E., assignor of one-half to G. F. Schulenburg, St. Louis, Mo. Signaling device. No. 1,291,858; Jan. 21; v. 258; p. 494.
- Hannah, James E., et al. (See Bussler, Thomas, assignor.)
- Hannah, Mary H., Chicago, Ill. Means for fastening rugs on carpets. No. 1,312,323; Aug. 5; v. 265; p. 87.
- Hannah, Walter H., et al. (See Bussler, Thomas, assignor.)
- Hanner, William B., and J. W. Adams, Sikeston, Mo. Package-tie. No. 1,322,168; Nov. 18; v. 268; p. 455.
- Hannigan, John B. (See Coburn, Edward B., assignor.)
- Hannon, Joseph J., Maynard, Mass. Milk-bottle container. No. 1,311,966; Aug. 5; v. 265; p. 21.
- Hannum, Philip L., Dalhart, Tex. Beet-harvester. No. 1,309,940; July 15; v. 264; p. 423.
- Hanovia Chemical & Manufacturing Company. (See Quimby and Robinson, assignors.)
- Hanriot, René, Neuilly-sur-Seine, and F. Gratieux, Paris, assignors to Societe R. Hanriot et Cie., Billancourt, France. Aeroplane. No. 1,311,967; Aug. 5; v. 265; p. 21.
- Hanriot, René, Neuilly-sur-Seine, and F. Gratieux, Paris, assignors to Societe R. Hanriot et Cie., Billancourt, France. Aeroplane. No. 1,311,968; Aug. 5; v. 265; p. 22.
- Hans Renold Limited. (See Renold and Carter, assignors.)
- Hans, Samuel R., Manila, Philippine Islands. Car-fender. No. 1,320,001; Oct. 28; v. 267; p. 555.
- Hansburg, George B., and E. M. Lyons, New York, N. Y. Self-propelled wheeled toy. No. 1,321,206; Nov. 11; v. 268; p. 223.
- Hanschke, Gottfried. (See Graul, Hanschke, and Webel.)
- Hanscom, Ralph E., and M. J. Griffin, Manchester, N. H. Roving-holder. No. 1,305,540; June 3; v. 263; p. 58.
- Hanscotte, Jules E., Colombes, France. Brake-car. No. 1,325,151; Dec. 16; v. 269; p. 470.



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- Hanscotte, Jules E., Colombes, France. Locomotive. No. 1,325,870; Dec. 23; v. 269; p. 621.
- Hansell, John B., Sutton, Thirsk, England, assignor to Westinghouse Electric and Manufacturing Company. Centrifugal starting-switch. No. 1,305,094; May 27; v. 262; p. 594.
- Hansen, Aaron A., Rexburg, Idaho. Wire-stretcher. No. 1,325,090; Dec. 16; v. 269; p. 458.
- Hansen, Augie L., Evanston, Ill. Acetylene-lamp. No. 1,310,529; July 22; v. 264; p. 560.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene-lamp. No. 1,295,743; Feb. 25; v. 259; p. 732.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene-lamp. No. 1,295,744; Feb. 25; v. 259; p. 732.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Fire-extinguisher. No. 1,296,505; Mar. 4; v. 260; p. 153.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Burner-tip for acetylene and similar hydrocarbon gases. No. 1,296,506; Mar. 4; v. 260; p. 154.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Burning acetylene and similar hydrocarbon gases for illuminating purposes. No. 1,296,507; Mar. 4; v. 260; p. 154.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Crochet-frame. No. 1,317,367; Sept. 30; v. 266; p. 643.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Oil-cup. No. 1,317,368; Sept. 30; v. 266; p. 644.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Pointing-machine. No. 1,318,378; Oct. 14; v. 267; p. 198.
- Hansen, Augie L., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene-lamp. No. 1,303,658; May 13; v. 262; p. 248.
- Hansen, Bernhard, Parkwater, assignor of one-half to J. L. Wynn, Spokane, Wash. Feed-water heater. No. 1,325,289; Dec. 16; v. 269; p. 496.
- Hansen, Carl T. P., Glen Olden, assignor of one-half to F. Berman, Chester, Pa. Explosive and making same. No. 1,311,274; July 29; v. 264; p. 731.
- Hansen, Charles C., assignor to Refrigerating Specialties Company, Chicago, Ill. Automatic control. No. 1,311,346; July 29; v. 264; p. 745.
- Hansen, Charles C., assignor to Thermal Appliance Company, Inc., New York, N. Y. Water-heater. No. 1,311,391; July 29; v. 264; p. 754.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Feeding means for core-drills. No. 1,317,875; Oct. 7; v. 267; p. 41.
- Hansen, Charles F., Seattle, Wash. Fireless cooker. No. 1,320,002; Oct. 28; v. 267; p. 555.
- Hansen, Edward, Seattle, Wash. Combination chair and bed. No. 1,297,683; Mar. 18; v. 260; p. 479.
- Hansen, Edward H. (See Lee and Hansen.)
- Hansen, Edward J., Faxe Ladeplads, Denmark. Plant for utilizing wave-power. No. 1,315,629; Sept. 9; v. 266; p. 220.
- Hansen, Eigil A., Frederiksberg, near Copenhagen, Denmark. Low-water-alarm apparatus for steam-boilers. No. 1,312,175; Aug. 5; v. 265; p. 61.
- Hansen-Ellehammer, Jacob C., Copenhagen, Denmark. Steam-engine. No. 1,313,278; Aug. 19; v. 265; p. 320.
- Hansen-Ellehammer, Jacob C. H., Copenhagen, Denmark. Controlling device for engine distributing-valves. No. 1,318,664; Oct. 14; v. 267; p. 253.
- Hansen, Frank, Breslau, Nebr. Ship-protector. No. 1,294,097; Feb. 11; v. 259; p. 292.
- Hansen, Fred E. (See Frazier and Hansen.)
- Hansen, Frederick C., assignor of one-half to E. Best, Quincy, Ill. Transmission device for motor-vehicles. No. 1,292,767; Jan. 28; v. 258; p. 736.
- Hansen, George T. (See Greenleaf and Hansen.)
- Hansen, Gustave A., St. Louis, Mo. Steamboat and barge loading and unloading system. No. 1,298,499; Mar. 25; v. 260; p. 679.
- Hansen, Hans, Christiania, Norway. Lubricating apparatus. No. 1,309,685; July 15; v. 264; p. 376.
- Hansen, Jens P., Copenhagen, Denmark. Apparatus for developing, fixing, and washing photographic films and plates. No. 1,305,095; May 27; v. 262; p. 594.
- Hansen, Jens P., Copenhagen, Denmark. Packing photographic raw films. No. 1,305,096; May 27; v. 262; p. 594.
- Hansen, Jens P., Copenhagen, Denmark. Photographic camera. No. 1,305,097; May 27; v. 262; p. 595.
- Hansen, Jens P., Copenhagen, Denmark. Combined printing, enlarging, and diminishing apparatus for photographic use. No. 1,313,815; Aug. 19; v. 265; p. 421.
- Hansen, Jens P., Copenhagen, Denmark. Magnesium-lamp for photographic use. No. 1,315,118; Sept. 2; v. 266; p. 118.
- Hansen, Jens P., Copenhagen, Denmark. Shutter for photographic cameras. No. 1,317,575; Sept. 30; v. 266; p. 684.
- Hansen, Lars, Kansas City, Mo. Molding-machine. No. 1,306,538; June 10; v. 263; p. 277.
- Hansen, Ole, Lorenzo, Idaho. Fly-trap. No. 1,292,459; Jan. 28; v. 258; p. 662.
- Hansen, Ole, assignor of one-half to T. C. Shippen, Lorenzo, Idaho. Beet-harvesting machine. No. 1,319,069; Oct. 21; v. 267; p. 355.
- Hansen, Oswald H., Port Washington, assignor to United Phonographs Corporation, Sheboygan, Wis. Sound-reproducing machine. No. 1,318,866; Oct. 14; v. 267; p. 291.
- Hansen, Oswald H., assignor to The Wisconsin Chair Company, Port Washington, Wis. Measuring and feeding device. No. 1,318,867; Oct. 14; v. 267; p. 291.
- Hansen, Otto W., Chicago, Ill. Barrier-gate. No. 1,296,658; Mar. 11; v. 260; p. 225.
- Hansen, Peter. (See Joest, Anders J., assignor.)
- Hansen, Robert C. (See Temple, Russell R., assignor.)
- Hansgen, Rose C., Philadelphia, Pa. Latch-key carrier. No. 1,313,851; Aug. 19; v. 265; p. 427.
- Hansen, Victor, Wallace, Idaho. Boiler safety-tube. No. 1,301,692; Apr. 22; v. 261; p. 755.
- Hansen, Viggo N., Winnetka, assignor to Standex Manufacturing Corporation, Chicago, Ill. Crank-case oiler. No. 1,323,631; Dec. 2; v. 269; p. 76.
- Hansen, William A., et al. (See Silbernagel, Fred, assignor.)
- Hansen, William L., Princeton, Ind. Compound magnet. No. 1,292,460; Jan. 28; v. 258; p. 662.
- Hansmann, Paul, Long Prairie, Minn. Automatic coupling. No. 1,298,698; Apr. 1; v. 261; p. 18.
- Hansmann, Paul, Long Prairie, Minn. Coupling mechanism. No. 1,298,699; Apr. 1; v. 261; p. 18.
- Hanson, Albert O., Opheim, Mont. Flax-harvester. No. 1,311,347; July 29; v. 264; p. 745.
- Hanson, Bengt M. W., Hartford, Conn. Metal-working machine. No. 1,295,157; Feb. 25; v. 259; p. 597.
- Hanson, Bengt M. W., Hartford, Conn. Antifriction-bearing. No. 1,307,493; June 24; v. 263; p. 518.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Method of and apparatus for generating formers for milling-machines. No. 1,302,540; May 6; v. 262; p. 12.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Contour-cutter milling-machine. No. 1,302,541; May 6; v. 262; p. 12.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Precision boring-machine. No. 1,323,267; Dec. 2; v. 269; p. 8.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lubricating system. No. 1,323,268; Dec. 2; v. 269; p. 8.
- Hanson, Bennie P., Bancroft, Iowa. Disinfectant attachment for poultry-roosts. No. 1,325,360; Dec. 16; v. 269; p. 509.
- Hanson, Carl W., Coaticook, Quebec, Canada. Target apparatus. No. 1,316,792; Sept. 23; v. 266; p. 499.
- Hanson, Charles A., Chicago, Ill. Spacer and tie in continuous strip for concrete construction. No. 1,293,421; Feb. 4; v. 259; p. 104.
- Hanson, Charles G., Wichita, Kans. Hanger. No. 1,302,793; May 6; v. 262; p. 59.
- Hanson, Clyde F. (See La Boissiere, Hanson, and Chalcker.)
- Hanson, Earl C. (See Carlson and Hanson.)
- Hanson, Earl C., Los Angeles, Calif. Wireless transmission of signals. No. 1,320,140; Oct. 28; v. 267; p. 581.
- Hanson, Earl C., Los Angeles, Calif., assignor to Title Insurance and Trust Company. Wireless transmission of energy. No. 1,315,197; Sept. 2; v. 266; p. 132.
- Hanson, Earl C., Los Angeles, Calif., assignor to Title Insurance and Trust Company. Loud-speaking wireless phonograph. No. 1,320,141; Oct. 28; v. 267; p. 581.
- Hanson, Earl C., Los Angeles, Calif., assignor to Title Insurance and Trust Company. Audio-frequency-controlled torpedo. No. 1,320,142; Oct. 28; v. 267; p. 581.
- Hanson, Earl C., Washington, D. C. Lifeboat radiosignaling system. No. 1,320,390; Nov. 4; v. 268; p. 6.
- Hanson, Edwin R., Redstone, Mont. Tractor attachment for automobiles. No. 1,305,717; June 3; v. 263; p. 92.
- Hanson, Hans, Hartford, Conn., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,291,859; Jan. 21; v. 258; p. 494.
- Hanson, Hans C., Litchfield, Minn. Barrel-holder. No. 1,323,185; Nov. 25; v. 268; p. 699.
- Hanson, Harry, Watertown, assignor of one-half to L. E. Cadieux, Boston, Mass. Hat, coat, and cane holding device. No. 1,308,670; July 1; v. 264; p. 121.
- Hanson, Harry C., St. Paul, Minn. Shocking-machine. No. 1,316,362; Sept. 16; v. 266; p. 370.
- Hanson, Herbert S., and C. M. Upham, assignors to Avery Company, Peoria, Ill. Gang-plow. No. 1,314,870; Sept. 2; v. 266; p. 73.
- Hanson, Hugo H., Boston, Mass., and H. K. Moore, assignors to Berlin Mills Company, Berlin, N. H. Magnesia brick and making the same. No. 1,307,197; June 17; v. 263; p. 430.
- Hanson, Johannes, Montevideo, Minn. Treating standing grain. No. 1,297,684; Mar. 18; v. 260; p. 479.



- Hanson, Johannes, Montevideo, Minn. Apparatus for treating standing grain. No. 1,303,659; May 13; v. 262; p. 249.
- Hanson, John Z., Muscle Shoals, Ala. Pivot-hinge. No. 1,324,667; Dec. 9; v. 269; p. 318.
- Hanson, Lewis, assignor to Trussed Concrete Steel Company of Canada, Ltd., Walkerville, Ontario, Canada. Casement-window stay. No. 1,312,727; Aug. 12; v. 265; p. 196.
- Hanson, Samuel L., Albert Lea, Minn. Rope-carried trip device. No. 1,299,334; Apr. 1; v. 261; p. 163.
- Hanson, T. S. (See Nelson, Henry, assignor.)
- Hanson, Victor R., Minneapolis, Minn. Tractor. No. 1,299,178; Apr. 1; v. 261; p. 128.
- Hanton, Archibald N., Indianapolis, Ind., assignor, by mesne assignments, to W. Bartlett. Device for positioning tools to be dressed. No. 1,295,982; Mar. 4; v. 260; p. 37.
- Hanzel, Charles J. (See Glynn, Wolpert, and Hanzel.)
- Hanzlik, Henry J., assignor to Kerr Turbine Company, Wellsville, N. Y. Turbine-bucket construction. No. 1,310,864; July 22; v. 264; p. 623.
- Hanzlik, Herman N., Wonevot, Wis. Gun. No. 1,314,801; Sept. 2; v. 266; p. 61.
- Haon, Harry J., Newburgh, N. Y., assignor to Du Pont Fabrikoid Company, Wilmington, Del. Coated product. No. 1,322,786; Nov. 25; v. 268; p. 623.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Scale-bearing. No. 1,294,450; Feb. 18; v. 259; p. 412.
- Hapgood, Clarence H., assignor of one-half to M. A. Duquette, Toledo, Ohio. Toilet apparatus. No. 1,305,358; June 3; v. 263; p. 24.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,310,948; July 22; v. 264; p. 638.
- Happensack, Edward F., assignor to The O. P. Schriver Company, Cincinnati, Ohio. Pliers. No. 1,320,547; Nov. 4; v. 268; p. 36.
- Hara, Rikwo, Honolulu, Hawaii. Bread-slicing machine. No. 1,323,591; Dec. 2; v. 269; p. 69.
- Harasta, Joseph N. (See Burns, John W., assignor.)
- Harb, Alfred, assignor to L. Harb, New York, N. Y. Flying-machine. No. 1,304,967; May 27; v. 262; p. 570.
- Harb, Louisa. (See Harb, Alfred, assignor.)
- Harbaugh, Dell F., Chicago, Ill. Electrolytic deposition of lead. No. 1,306,479; June 10; v. 263; p. 267.
- Harbaugh, Dell F., Chicago, Ill. Recovering metals from their ores. No. 1,306,480; June 10; v. 263; p. 267.
- Harbaugh, Dell F., Chicago, Ill. Cleaning device for phonograph-records. No. 1,318,145; Oct. 7; v. 267; p. 92.
- Harbaugh, Harvey L., and F. Harwood, Seattle, Wash. Valve. No. 1,316,302; Sept. 16; v. 266; p. 359.
- Harbaugh, Josephine A. (See Barber and Harbaugh.)
- Harbeck, Jervis R., New York, N. Y., and E. G. Norton, Chicago, Ill. Electric furnace and operating the same. No. 1,295,309; Feb. 25; v. 259; p. 631.
- Harbord, Rolla C., Spokane, Wash. Grain-testing device. No. 1,310,567; July 22; v. 264; p. 568.
- Harburger, Samuel E., Kansas City, Mo. Toy pounding-box. No. 1,291,495; Jan. 14; v. 258; p. 377.
- Harcos, Aladar S., San Francisco, Calif. Drawing instrument. No. 1,299,179; Apr. 1; v. 261; p. 129.
- Harcourt, Stillwell R., Chicago, Ill. Player-piano mechanism. No. 1,316,573; Sept. 23; v. 266; p. 459.
- Hard, Charles O. (See Shroyer, Jacob L., assignor.)
- Hard, Malcolm, assignor to Nathan Manufacturing Company, Flushing, N. Y. Lubricator. No. 1,320,548; Nov. 4; v. 268; p. 36.
- Hard, Merrill W., assignor, by mesne assignments, to Copeman Development Company, Flint, Mich. Shank and handle. No. 1,314,078; Aug. 26; v. 265; p. 504.
- Hardebeck, Leo C., Butte, Mont. Pie-trimmer. No. 1,326,260; Dec. 30; v. 269; p. 731.
- Hardel, Jean A., Paris, France. Charge-torpedo. No. 1,298,500; Mar. 25; v. 260; p. 679.
- Harden, Charles H., Camden, N. Y. Latching device for doors. No. 1,326,193; Dec. 30; v. 269; p. 717.
- Harden, Clyde, Z. (See Bohannon and Harden.)
- Harden, Harry, London, Ohio. Airship. No. 1,290,549; Jan. 7; v. 258; p. 129.
- Hardesty, Blair, Savannah, Ga. Shoe-heel wear-resisting and antislipping device. No. 1,322,015; Nov. 18; v. 268; p. 426.
- Hardie, Elgin S., Hensall, Ontario, Canada. Accident-brake. No. 1,201,496; Jan. 14; v. 258; p. 377.
- Hardie, James G., Canton, N. Y. Sheet-carrying mechanism. No. 1,310,618; July 22; v. 264; p. 577.
- Hardie, Robert W., White Plains, N. Y. Air-moistener. No. 1,295,983; Mar. 4; v. 260; p. 37.
- Hardies, Paul. (See Peters and Hardies.)
- Hardin, Andrew J., Chattahoochee, Fla. Insect-trap. No. 1,313,986; Aug. 26; v. 265; p. 487.
- Hardin, May P., Harrodsburg, Ky. Sleeve-pattern and method of producing the same. No. 1,303,477; May 13; v. 262; p. 215.
- Harding, Charles E. (See Davis and Harding.)
- Harding, Charles E., assignor of one-third to H. R. Lane, Sioux Falls, S. D. Transmission gear lock. No. 1,312,728; Aug. 12; v. 265; p. 196.
- Harding, Charles K., Chicago, Ill. Electric spark-plug. No. 1,296,076; Mar. 4; v. 260; p. 59.
- Harding, Charles K., Chicago, Ill. Apparatus for burning gas. No. 1,304,042; May 20; v. 262; p. 357.
- Harding, Clark J., Pittsfield, Mass. Account deposit-book. No. 1,294,657; Feb. 18; v. 259; p. 459.
- Harding Conical Mill Company. (See Lawler, Edward W., assignor.)
- Harding, Henry L., Loughton, England. Resilient tire for vehicle-wheels. No. 1,294,796; Feb. 18; v. 259; p. 491.
- Harding, L. E., assignor of three-fourths to H. Schmitt, Jr., Sioux City, Iowa. Motor-vehicle jack. No. 1,307,859; June 24; v. 263; p. 584.
- Harding, Marcelle J. (See Von Tobel, Fritz O.)
- Harding, Marcelle J. (See Vontobel, Friedrich O.)
- Hardinge Brothers. (See Hardinge, Franklin, assignor.)
- Hardinge, Franklin, assignor to Hardinge Brothers, Chicago, Ill. Cross-slide mechanism for lathes. No. 1,290,550; Jan. 7; v. 258; p. 129.
- Hardinge, Franklin, Oak Park, assignor to Hardinge Brothers, Chicago, Ill. Counter-shaft. No. 1,311,969; Aug. 5; v. 265; p. 22.
- Hardinge, Franklin, assignor to Hardinge Brothers, Chicago, Ill. Seal for fastening devices. No. 1,315,832; Sept. 9; v. 266; p. 257.
- Hardinge, Franklin, assignor to Hardinge Brothers, Chicago, Ill. Watchman's clock. No. 1,322,564; Nov. 25; v. 268; p. 582.
- Hardisty, Henry, Oak Grove, Oreg., assignor to The Nut Lock Company. Nut-lock. No. 1,319,279; Oct. 21; v. 267; p. 396.
- Hardman, Cornelius B., Columbus, Ohio. Hay-press. No. 1,324,962; Dec. 16; v. 269; p. 434.
- Hardman, Glenn. (See Harrington, Claude B., assignor.)
- Hardman, John R., Columbus, Ohio. Combined table and robe-rail for automobiles. No. 1,302,542; May 6; v. 261; p. 12.
- Hardonecourt, Arthur, Jr., Brooklyn, N. Y. Wall construction. No. 1,299,180; Apr. 1; v. 261; p. 129.
- Hardonecourt, Arthur, Jr., Brooklyn, N. Y. Wall construction and channel brick block therefor. No. 1,311,069; July 22; v. 264; p. 661.
- Hardsoeg Wonder Drill Company. (See Turner, Thomas, assignor.)
- Hardtke, Alfred O., Utica, Minn. Post-hole auger. No. 1,294,093; Feb. 11; v. 259; p. 293.
- Hardware Specialty Co. (See Abbott, Percy C., assignor.)
- Hardy, Betty, Charleston, W. Va. Stove. No. 1,320,003; Oct. 28; v. 267; p. 556.
- Hardy, Charles S., San Diego, Cal. Method and apparatus for cleaning tripe. No. 1,294,455; Feb. 18; v. 259; p. 413.
- Hardy, Clara B., and K. E. Gibson, Los Angeles, Calif. Mechanical manipulating mechanism. No. 1,303,475; May 13; v. 262; p. 215.
- Hardy, Clyde V. (See Robinson and Hardy.)
- Hardy, E. E., Brooklyn, N. Y. Can-opener. No. 1,291,860; Jan. 21; v. 258; p. 494.
- Hardy, Edward J., Warwickshire, England. Universal joint. No. 1,290,551; Jan. 7; v. 258; p. 129.
- Hardy, Edward J., Coventry, England. Universal joint. No. 1,296,796; Mar. 11; v. 260; p. 256.
- Hardy, Francis I. (See Southworth and Hardy.)
- Hardy, George, Portneuf Station, Quebec, assignor to Mills Works & Machinery Limited, Pont Rouge, Canada. Regulator for paper-making machines. No. 1,322,016; Nov. 18; v. 268; p. 426.
- Hardy, Homer L., assignor of one-half to H. G. Duerfeldt, Spokane, Wash. Automatic self-closing flush-valve for toilets. No. 1,297,563; Mar. 18; v. 260; p. 453.
- Hardy, Isaac A., Evansville, Ind. Cigar-banding machine. No. 1,292,409; Jan. 21; v. 258; p. 628.
- Hardy, Johnson, Washington, D. C. Furnace-door. No. 1,321,034; Nov. 4; v. 268; p. 128.
- Hardy, Thomas. (See Wilson, John A., assignor.)
- Hardy, Willoughby D., New York, N. Y. Shoulder and body brace. No. 1,293,089; Feb. 4; v. 259; p. 27.
- Hare, Asbery T., Baileytown, Ala. Grain-grinding mill. No. 1,296,797; Mar. 11; v. 260; p. 256.
- Hare, John A., New York, N. Y. Continuous-rail railway-crossing. No. 1,305,211; May 27; v. 262; p. 616.
- Hare, Lee W., Anoka, Minn. Transmission-gearing. No. 1,290,184; Jan. 7; v. 258; p. 41.
- Hare, William I., New York, N. Y. Trowel. No. 1,323,980; Dec. 2; v. 269; p. 142.
- Harger, John S., Nyack, N. Y. Transmission-gearing. No. 1,303,660; May 18; v. 262; p. 249.
- Harger, Rolla N., Washington, D. C. Manufacturing N-methyl p-amino phenol. No. 1,297,685; Mar. 18; v. 260; p. 479.
- Hargett, Peter L. (See Houff, Jacob M., assignor.)
- Hargraves, Albert, Akron, Ohio. Expandable core for vulcanizing tires. No. 1,319,770; Oct. 28; v. 267; p. 512.
- Hargraves, Edwin, et al., executors. (See Royle, John J. and G. E.)
- Hargreaves, Albert. (See Hargreaves, George W., A., and R.)
- Hargreaves, George W., A., and R., Blackburn, England. Carding-engine. No. 1,310,827; July 22; v. 264; p. 616.
- Hargreaves, Robert. (See Hargreaves, George W., A., and R.)



*Alphabetical list of patentees—Continued.*

- Harkness, Albert E., Bradford, Pa. Well-reamer. No. 1,320,226; Oct. 28; v. 267; p. 596.
- Harkom, John W., Melbourne, Quebec, Canada. Sight for firearms and the like. No. 1,314,472; Aug. 26; v. 265; p. 580.
- Harlan, Ralph P., Chicago, Ill. Top. No. 1,321,035; Nov. 4; v. 268; p. 128.
- Harlan, Wilson P., Yuma, Ariz. Flume-gate. No. 1,298,936; Apr. 1; v. 261; p. 73.
- Harland and Wolff. (See Marks, Arthur, assignor.)
- Harlé & Co. (See Harlé, Frédéric A. H., assignor.)
- Harlé, Frédéric A. H., Paris, France. Control apparatus. No. 1,292,768; Jan. 28; v. 258; p. 736.
- Harlé, Frédéric A. H., assignor to Harlé & Co., Paris, France. Submarine mine. No. 1,298,937; Apr. 1; v. 261; p. 74.
- Harlé, Jean, Rouen, France. Detonating-fuse. No. 1,306,895; June 17; v. 263; p. 376.
- Harlem Contracting Company. (See Shortell, William H., assignor.)
- Harley-Davidson Motor Company. (See Harley, William S., assignor.)
- Harley-Davidson Motor Company. (See Lewis, Henry J., assignor.)
- Harley-Davidson Motor Company. (See Zetterlund, Theodor, assignor.)
- Harley, Glen L. (See Sidney and Harley.)
- Harley, Leon J., Jr. (See Rodgetts, Harold W., assignor.)
- Harley, William S., assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Motor-cycle-frame structure for V-type motors. No. 1,293,643; Feb. 4; v. 259; p. 155.
- Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Compression-relieving mechanism. No. 1,301,256; Apr. 22; v. 261; p. 671.
- Harley, William S., assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Side-car body and packing the same. No. 1,301,257; Apr. 22; v. 261; p. 671.
- Harley, William S., assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Motor-cycle-lubrication system. No. 1,301,258; Apr. 22; v. 261; p. 671.
- Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Case-hardening materials. No. 1,308,239; July 1; v. 264; p. 43.
- Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Magneto-circuit breaker. No. 1,319,332; Oct. 21; v. 267; p. 406.
- Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Magneto-circuit breaker. No. 1,325,016; Dec. 16; v. 269; p. 444.
- Harlie, Ella S., Tampa, Fla. Mouth-guard for children and infants. No. 1,297,842; Mar. 18; v. 260; p. 513.
- Harlow, Clarence B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Signaling device. No. 1,304,968; May 27; v. 262; p. 570.
- Harlow, Clarence B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Circuit-closer. No. 1,308,711; July 1; v. 264; p. 129.
- Harlow, George, Eltrincham, England, assignor to Westinghouse Electric and Manufacturing Company. Transformer. No. 1,311,507; July 29; v. 264; p. 775.
- Harlow, John B., Upper Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective signaling system. No. 1,291,861; Jan. 21; v. 258; p. 494.
- Harman, Arthur C., Delta, Iowa. Farm-gate latch. No. 1,312,479; Aug. 5; v. 265; p. 118.
- Harman, James R., Port Angeles, Wash. Egg-carton. No. 1,321,740; Nov. 11; v. 268; p. 325.
- Harmon, Christopher C. (See Wooten and Harmon.)
- Harmon, Frank L., Beverly, Mass., assignor to Singer Manufacturing Company, Elizabeth, N. J. Duplex feeding mechanism for eyelets, &c. No. 1,302,794; May 6; v. 262; p. 59.
- Harmon, Paul V. (See Wooten and Harmon.)
- Harmon, Stanford. (See Robinson, Frank A., assignor.)
- Harmon, Willis E., Worcester, Mass. Attaching and detaching device for automobile-bodies. No. 1,293,090; Feb. 4; v. 259; p. 28.
- Harmony, John M., Des Arc, Ark. Belt-hook. No. 1,313,818; Aug. 19; v. 265; p. 421.
- Harms, Otto W., Chicago, Ill. Cigar-box. No. 1,310,949; July 22; v. 264; p. 638.
- Harmsley, John W., Waterloo, Iowa. Transportation-ticket. No. 1,322,017; Nov. 18; v. 268; p. 426.
- Harmuth, Gustave A., Drumright, Okla. Tire-boot. No. 1,318,077; Oct. 7; v. 267; p. 79.
- Harnden, Charles H., Hudson, Wis. Rein-guard. No. 1,321,431; Nov. 11; v. 268; p. 267.
- Harned, Mark L., Washington, D. C. Fluid-pressure-actuated valve. No. 1,291,862; Jan. 21; v. 258; p. 495.
- Harnett, John T., Philadelphia, Pa. Cast-iron pipe and coupling therefor. No. 1,299,934; Apr. 8; v. 261; p. 327.
- Harnish, Harry E., Philadelphia, Pa. Assorting-conveyer. No. 1,305,900; June 3; v. 263; p. 126.
- Harold A. Wilson Company of Toronto, The. (See Mitchell, William, assignor.)
- Harper, Charles L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Strap-fastener. No. 1,310,119; July 15; v. 264; p. 455.
- Harper, Charles W., Spring Valley, N. Y. Spoon-holding clip. No. 1,312,396; Aug. 5; v. 265; p. 101.
- Harper, Frederick, Chicago, Ill. Mold for making garbage-receptacles and the like. No. 1,295,489; Feb. 25; v. 259; p. 673.
- Harper, Martin A. J. (See Myers and Harper.)
- Harper, Stephen C., Hampton, Miss. Hoisting and conveying apparatus. No. 1,311,692; July 29; v. 264; p. 731.
- Harper, Walter L., Birmingham, Ala. Envelop. No. 1,292,769; Jan. 28; v. 258; p. 736.
- Harper, William G., Carlisle, Ky. Motor assembling and testing stand. No. 1,322,787; Nov. 25; v. 268; p. 623.
- Harpham, George L., Maupin, Oreg. Foldable bed-frame. No. 1,307,399; June 24; v. 263; p. 501.
- Harpmann, Charles A., Youngstown, Ohio. Direction-indicator for vehicles. No. 1,312,537; Aug. 12; v. 265; p. 159.
- Harrah, Hillis A., Kansas City, Mo. Tractor. No. 1,309,408; July 8; v. 264; p. 286.
- Harrah, Philip J., Bloomfield, Ind. Lifting-jack. No. 1,307,968; June 24; v. 263; p. 605.
- Harraison, J. C., et al. (See Sabin, William W., assignor.) (Reissue.)
- Harrell, John A. (See Bunnell, Morton G., assignor.)
- Harries, Herbert J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,324,194; Dec. 9; v. 269; p. 227.
- Harrigan, C. P. (See Rowell, Walden T., assignor.)
- Harrigan, John, Joilet, Ill. Brake safety means. No. 1,303,064; May 6; v. 262; p. 111.
- Harriman, David R., Jr. (See Redmond, Harriman, and Richardson.)
- Harrington, Albert H., Fall River, assignor to Non Skid Company of America, Boston, Mass. Antiskid for wheels. No. 1,297,155; Mar. 11; v. 260; p. 338.
- Harrington, Claude B., assignor of one-fourth to G. Hardman, McMechen, W. Va. Motion-picture machine. No. 1,321,629; Nov. 11; v. 268; p. 304.
- Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote-control means. No. 1,298,700; Apr. 1; v. 261; p. 18.
- Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Magnetic device. No. 1,298,701; Apr. 1; v. 261; p. 19.
- Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Method and apparatus for adjusting armatures of electromagnetic devices. No. 1,308,585; July 1; v. 264; p. 105.
- Harrington, Clinton O., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 1,298,938; Apr. 1; v. 261; p. 74.
- Harrington, Glen D. (See Fish, Albert E., assignor.)
- Harrington, Joseph, Riverside, Ill. Stoker. No. 1,326,590; Dec. 30; v. 269; p. 793.
- Harrington, Joseph, Riverside, Ill. Stoker. No. 1,326,591; Dec. 30; v. 269; p. 793.
- Harrington, Ralph M., assignor to E. A. Sperry, Brooklyn, N. Y. Producing lead salts. No. 1,308,948; July 8; v. 264; p. 201.
- Harris, Adams O., Goble, Oreg. Net-float. No. 1,296,386; Mar. 4; v. 260; p. 129.
- Harris, Albert O., Winnsboro, Tex. Hand-operated balling-press. No. 1,321,036; Nov. 4; v. 268; p. 128.
- Harris, Alfred A., San Francisco, Calif. Auxiliary seat for children. No. 1,305,463; June 3; v. 263; p. 44.
- Harris, Alfred E., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Printing-press. No. 1,307,969; June 24; v. 263; p. 605.
- Harris, Alfred W., Peoria, assignor to Hill-Harris Company, Galesburg, Ill. Reflector for headlights or search-lights. No. 1,300,725; Apr. 15; v. 261; p. 523.
- Harris, Arthur W., Sleepy Eye, Minn. Plant-guard. No. 1,324,668; Dec. 9; v. 269; p. 318.
- Harris Automatic Press Company, The. (See Anderson, Nels A., assignor.)
- Harris Automatic Press Company, The. (See Niles, Irving F., assignor.)
- Harris Automatic Press Company, The. (See Harris, Alfred F., assignor.)
- Harris Automatic Press Company, The. (See Harrold, Charles W., assignor.)
- Harris Automatic Press Company, The. (See Pritchard, Carl G., assignor.)
- Harris, Charles C., and N. L. McLeod, Seattle, Wash. Automatic stop device. No. 1,298,939; Apr. 1; v. 261; p. 74.
- Harris, Charles E., Brooklyn, N. Y. Display-box. No. 1,324,669; Dec. 9; v. 269; p. 318.
- Harris, Christopher, assignor to Ceylon Hardware and Furniture Company, Ceylon, Minn. Poultry feeder and exerciser. No. 1,299,719; Apr. 8; v. 261; p. 279.
- Harris, Clarence E., Milwaukee, Wis. Stencil-holding apparatus. No. 1,324,044; Dec. 9; v. 269; p. 199.
- Harris, Dorothy J. (See Rutter, Sydney E., assignor.)
- Harris, Ebenezer D., Jr., Lander, Wyo. Mechanical movement. No. 1,297,156; Mar. 11; v. 260; p. 338.
- Harris, Ebenezer D., Jr., Lander, Wyo. Collapsible crate. No. 1,297,564; Mar. 18; v. 260; p. 453.



- Harris, Edward, *et al.* (See Kimmel, Ozro F., assignor.)  
Harris, Edward, Los Angeles, Calif. Retread vulcanizer. No. 1,301,431; Apr. 22; v. 261; p. 705.  
Harris, Edward E., Sand Springs, Okla. Condiment-receptacle. No. 1,316,480; Sept. 16; v. 266; p. 392.  
Harris, Frank L., Lancaster, N. H. Plow. No. 1,294,902; Feb. 18; v. 259; p. 516.  
Harris, Ford W. (See Bardeen and Harris.)  
Harris, Ford W. (See Sherman, Willis D., assignor.)  
Harris, Fred F., Los Angeles, Calif. Gas-generator. No. 1,299,935; Apr. 8; v. 261; p. 327.  
Harris, George D., *et al.* (See Andrix, Harry, assignor.)  
Harris, George D., Jr., *et al.* (See Andrix, Harry, assignor.)  
Harris, George H. (See Waltz, Herbert E., assignor.)  
Harris, George H., assignor to Utica Valve and Fixture Company, Utica, N. Y. Safety gas-cock. No. 1,324,817; Dec. 16; v. 269; p. 408.  
Harris, Gordon D., Bayonne, N. J. Evaporating moisture-containing materials. No. 1,296,508; Mar. 4; v. 260; p. 154.  
Harris, Gordon D., Bayonne, N. J. Evaporating system for moisture-containing materials. No. 1,296,510; Mar. 4; v. 260; p. 155.  
Harris, Gordon D., Freeport, N. Y. Apparatus for evaporating moisture-containing materials. No. 1,296,509; Mar. 4; v. 260; p. 154.  
Harris, Grace, Monterey, Calif. Combined seat and bed. No. 1,309,520; July 8; v. 264; p. 307.  
Harris, Harry E., Bridgeport, Conn. Angle and lead testing machine. No. 1,303,198; May 6; v. 262; p. 137.  
Harris, Harvey L., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,298,339; Mar. 25; v. 260; p. 643.  
Harris, Harvey L., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone-exchange system. No. 1,324,739; Dec. 9; v. 269; p. 331.  
Harris, Henry H., Peru, Ind. Dispensing-refrigerator. No. 1,300,608; Apr. 15; v. 261; p. 498.  
Harris, Henry K., Westminster, London, England. Recording apparatus for use in connection with advertising devices and the like. No. 1,291,863; Jan. 21; v. 258; p. 495.  
Harris, Henry K., Westminster, London, England. Advertising device. No. 1,313,816; Aug. 19; v. 265; p. 421.  
Harris, Henry K., London, England. Advertising device. No. 1,313,817; Aug. 19; v. 265; p. 421.  
Harris, Hubert E., Atlanta, Ga. Railway-rail-fastening device. No. 1,290,185; Jan. 7; v. 258; p. 41.  
Harris, Hugh W., Pittsburgh, Pa. Paper-feeding mechanism. No. 1,294,456; Feb. 18; v. 259; p. 413.  
Harris, Irvin F., Waxahachie, Tex. Cranking device. No. 1,307,400; June 24; v. 263; p. 501.  
Harris, James, Wyoming, and R. D. Bogue, assignors to The Aromint Company, Cincinnati, Ohio. Display device. No. 1,308,949; July 8; v. 264; p. 201.  
Harris, James H., Ashland, Va. Tooth-brush holder. No. 1,298,041; Mar. 25; v. 260; p. 581.  
Harris, James O. (See Lundberg and Harris.)  
Harris, Joe. (See Suck, Charles M., assignor.)  
Harris, John, Cleveland, Ohio. Blowpipe-burner. No. 1,311,815; July 29; v. 264; p. 832.  
Harris, John, Cleveland, Ohio. Valve. No. 1,315,018; Sept. 2; v. 266; p. 100.  
Harris, John, Cleveland, Ohio, assignor to The Carbo Hydrogen Company of America, Pittsburgh, Pa. Welding-torch. No. 1,291,864; Jan. 21; v. 258; p. 495.  
Harris, John, Cleveland, Ohio, assignor to Carbo Hydrogen Company of America, Pittsburgh, Pa. Cutting-torch. No. 1,302,157; Apr. 29; v. 261; p. 874.  
Harris, John, Lakewood, Ohio. Gas for cutting and welding purposes. No. 1,303,891; May 20; v. 262; p. 329.  
Harris, John, Lakewood, Ohio. Welding. No. 1,303,892; May 20; v. 262; p. 329.  
Harris, John, Lakewood, Ohio, assignor of one-half to J. R. Rose, Pittsburgh, Pa. Gage. No. 1,291,497; Jan. 14; v. 258; p. 377.  
Harris, John, Lakewood, Ohio, assignor of one-half to J. R. Rose. Electrolytic cell. No. 1,297,157; Mar. 11; v. 260; p. 338.  
Harris, John, Lakewood, Ohio, assignor to Carbo-Hydrogen Company of America, Pittsburgh, Pa. Machine for cutting and welding with fluid fuel. No. 1,320,687; Nov. 4; v. 268; p. 61.  
Harris, John F., assignor to Cement Products Company, Wilmington, N. C. Mold. No. 1,311,122; July 22; v. 264; p. 670.  
Harris, John J. B., Broadheath, England, assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Stereotyper's matrix and vertical mold for casting stereotype-plates from it. No. 1,313,632; Aug. 19; v. 265; p. 387.  
Harris, John R., Chartiers township, Allegheny county, Pa. Insulator. No. 1,302,158; Apr. 29; v. 261; p. 874.  
Harris, John S. (See Senton and Harris.)  
Harris, Joseph, Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car draft-rigging. No. 1,293,422; Feb. 4; v. 259; p. 104.  
Harris, Margaret M. (See Dysinger and Harris.)  
Harris, Marion M., *et al.* (See Simpson, Norman R., assignor.)  
Harris, Mark, New York, N. Y. Combination letter-sheet and envelop. No. 1,313,293; Aug. 19; v. 265; p. 323.  
Harris, Mary E., Modesto, Cal. Bread-raiser. No. 1,296,387; Mar. 4; v. 260; p. 129.  
Harris, Milo, Jamestown, N. Y. Metallic packing. No. 1,290,985; Jan. 14; v. 258; p. 258.  
Harris, Morris C., San Jose, Calif. Interlocking reinforcing-bar for concrete construction. No. 1,301,259; Apr. 22; v. 261; p. 671.  
Harris, Noah, Indianapolis, Ind. Heel-support. No. 1,325,845; Dec. 23; v. 269; p. 616.  
Harris, Ralph G., Salida, Colo. Trap-nest. No. 1,296,388; Mar. 4; v. 260; p. 130.  
Harris, Robert H., assignor of one-fourth to J. Wade and one-fourth to N. W. Wilson, Oakland, Calif. Shackle. No. 1,305,098; May 27; v. 262; p. 595.  
Harris, Robert L., and G. B. Smith, Jacksonville, Fla. Railway-crossing signal. No. 1,311,970; Aug. 5; v. 265; p. 22.  
Harris, Sam H., New York, N. Y. Fastening device. No. 1,302,918; May 6; v. 262; p. 84.  
Harris, Stanley W., assignor to The Akron Rubber Mold & Machine Company, Akron, Ohio. Vulcanizer. No. 1,306,008; June 10; v. 263; p. 177.  
Harris Suspender Company. (See Silvermann, Edwin M., assignor.)  
Harris, Thaddeus N. (See Shannon and Harris.)  
Harris, Thaddeus S., Waverly, Ill. Combined tractor and gang-plow. No. 1,305,099; May 27; v. 262; p. 595.  
Harris, Varian M., assignor, by mesne assignments, to Klix Manufacturing Company, Chicago, Ill. Combined motion-picture camera and projector. No. 1,291,865; Jan. 21; v. 258; p. 495.  
Harris, Varian M., assignor to Klix Manufacturing Company, Chicago, Ill. Film-magazine for cameras. No. 1,318,552; Oct. 14; v. 267; p. 231.  
Harris, Varian M., assignor to Klix Manufacturing Company, Chicago, Ill. Film holding and advancing means. No. 1,318,868; Oct. 14; v. 267; p. 291.  
Harris, Varian M., assignor to Klix Manufacturing Company, Chicago, Ill. Shutter-support for cameras. No. 1,323,762; Dec. 2; v. 269; p. 101.  
Harris, William, Silver City, N. Mex. Silt-gate. No. 1,297,843; Mar. 18; v. 260; p. 513.  
Harris, William A., Greenville, S. C. Low-pressure alarm for pneumatic tubes. No. 1,313,533; Aug. 19; v. 265; p. 368.  
Harris, William G. (See Rutter, Sydney E., assignor.)  
Harrison, Albert D., Marple, England. Heat-exchanging apparatus. No. 1,325,637; Dec. 23; v. 269; p. 577.  
Harrison Balancing Machine Company, The. (See Harrison, John P., Jr., assignor.)  
Harrison, Charles L., Richmond, Va. Car-ventilator. No. 1,308,737; July 1; v. 264; p. 134.  
Harrison, Crockett J., administrator. (See Harrison, John F., Jr.)  
Harrison, Edith. (See Mundy and Harrison.)  
Harrison, George L., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Culinary vessel. No. 1,298,940; Apr. 1; v. 261; p. 74.  
Harrison, George L., assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Culinary utensil. No. 1,310,015; July 15; v. 264; p. 436.  
Harrison, Harry W., and G. W. Frazier, Detroit, Mich. Pipe-rail fitting. No. 1,316,155; Sept. 16; v. 266; p. 331.  
Harrison, Herbert C., Lockport, N. Y. Apparatus for sherardizing articles. No. 1,291,886; Jan. 21; v. 258; p. 496.  
Harrison, Herbert C., Lockport, N. Y. Radiator construction. No. 1,314,263; Aug. 26; v. 265; p. 540.  
Harrison, John F., Jr., deceased, Laddonia, Mo.; C. J. Harrison, administrator. Incubator-tray. No. 1,300,957; Apr. 15; v. 261; p. 572.  
Harrison, John P., Jr., assignor to The Harrison Balancing Machine Company, Hamilton, Ohio. Adding and subtracting machine. No. 1,319,070; Oct. 21; v. 267; p. 355.  
Harrison, John P., Jr., assignor to The Harrison Balancing Machine Company, Hamilton, Ohio. Positive and negative total-adding machine. No. 1,323,857; Dec. 2; v. 269; p. 119.  
Harrison, Joshua B., Detroit, Mich. Anti-skidding device. No. 1,318,553; Oct. 14; v. 267; p. 232.  
Harrison, Mary R., Boston, Mass. Machine and making reinforced sheet material. No. 1,325,091; Dec. 16; v. 269; p. 459.  
Harrison, Nathan C., Newtonville, Mass. Abrasive material and making same. No. 1,314,061; Aug. 26; v. 265; p. 501.  
Harrison, Ralph H., Detroit, Mich. Electrolytic process for making stencils. No. 1,311,275; July 29; v. 264; p. 809.  
Harrison, Robert J., Chicopee Falls, Mass. Joining tubes. No. 1,311,392; July 29; v. 264; p. 754.  
Harrison Safety Boiler Works. (See Anderson, Peter M., assignor.)  
Harrison Safety Boiler Works. (See Gamble, Joseph W., assignor.)



*Alphabetical list of patentees—Continued.*

- Harrison Safety Boiler Works. (See Gamble and Giele, assignors.)
- Harrison Safety Boiler Works. (See Wright, Raymond D. B., assignor.)
- Harrison, Victor B., Toronto, Ontario, Canada. Sharpening device. No. 1,312,538; Aug. 12; v. 265; p. 159.
- Harrison, Ward, East Cleveland, Ohio, assignor to General Electric Company. Lighting unit. No. 1,299,936; Apr. 8; v. 261; p. 327.
- Harrison, William H., New York, N. Y. Device for use in playing pool or billiards. No. 1,299,720; Apr. 8; v. 261; p. 279.
- Harrold, Charles W., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Sheet-feeder. No. 1,312,539; Aug. 12; v. 265; p. 159.
- Harrold, Charles W., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Sheet-feeder. No. 1,312,540; Aug. 12; v. 265; p. 159.
- Harrold, Elmer, assignor to The Crescent Machine Company, Leontia, Ohio. Saw-guard. No. 1,311,508; July 29; v. 264; p. 775.
- Harrold, George, Los Angeles, Calif. Adjustable curtain for wind-shields. No. 1,309,133; July 8; v. 264; p. 236.
- Harrop, James T. Jr., Chicago, Ill. Fire-extinguisher. No. 1,299,721; Apr. 8; v. 261; p. 279.
- Harry, Elmer H., assignor of one-half to G. Whitehead, Gibson City, Ill. Cleaning device. No. 1,299,181; Apr. 1; v. 261; p. 129.
- Harry, Samuel J., and W. E. Kelly, Connellsville, Pa. Form for concrete structures. No. 1,298,941; Apr. 1; v. 261; p. 75.
- Harry Vissering & Company. (See Russell, Thomas N., assignor.)
- Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Stitcher apparatus for tire-making machinery. No. 1,319,333; Oct. 21; v. 267; p. 406.
- Harsel, William B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Marker for tires. No. 1,324,016; Dec. 2; v. 269; p. 149.
- Harsh, Howard, Osakis, Minn. Foldable crate. No. 1,325,323; Dec. 16; v. 269; p. 502.
- Harsh, Samuel E., Wabash, Ind. Automobile. No. 1,313,869; Oct. 14; v. 267; p. 292.
- Harshaw, Fuller & Goodwin Company, The. (See Butler, Matthew W., assignor.)
- Harshaw, John H., Atkins, Ark. Grapple. No. 1,298,702; Apr. 1; v. 261; p. 19.
- Harshberger, Harry J., assignor to The Tipp Whip Company, Tippecanoe City, Ohio. Coating for soap. No. 1,325,361; Dec. 16; v. 269; p. 509.
- Harshman, Jennings B., Davenport, Iowa. Direction-indicator. No. 1,303,476; May 13; v. 262; p. 215.
- Harsley, John W. and M. P. Apgar, New York, N. Y. Valve-lifter. No. 1,322,433; Nov. 18; v. 268; p. 505.
- Hart, Carl O. (See Gerrard, Frederick J., assignor.)
- Hart, Clarence B. (See Hinck, Henry M., assignor.)
- Hart, Edward, Easton, Pa. Chemical apparatus. No. 1,293,423; Feb. 4; v. 259; p. 105.
- Hart, Edward, Easton, Pa. Utilization of greensand. No. 1,322,900; Nov. 25; v. 268; p. 644.
- Hart, Edward, Easton, Pa. Treatment of greensand, marl, and glauconite. No. 1,323,228; Nov. 25; v. 268; p. 708.
- Hart, Edwin J., Philadelphia, Pa. Automatic stoker. No. 1,312,397; Aug. 5; v. 265; p. 101.
- Hart, Frank B., Poplar Bluff, Mo. Portable lifting device and carrier for automobiles. No. 1,304,680; May 27; v. 262; p. 517.
- Hart, Fred A., New Brunswick, N. J. Attachment for violin-bridges. No. 1,306,663; June 10; v. 263; p. 300.
- Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Type-writing machine. No. 1,293,091; Feb. 4; v. 259; p. 28.
- Hart, Frederick A., Newark, N. J., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,296,659; Mar. 11; v. 260; p. 225.
- Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,296,953; Mar. 11; v. 260; p. 293.
- Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,302,159; Apr. 29; v. 261; p. 874.
- Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,315,303; Sept. 9; v. 266; p. 162.
- Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,325,469; Dec. 16; v. 269; p. 528.
- Hart, George H., Hartford, Conn. Electric switch. No. 1,297,348; Mar. 18; v. 260; p. 408.
- Hart Grain Weigher Co. (See Steele, Benjamin M., assignor.)
- Hart, Harry S., Chicago, Ill. Hopper-dump-car construction. No. 1,300,959; Apr. 15; v. 261; p. 573.
- Hart, Harry S., Chicago, Ill. Dump-car construction. No. 1,300,960; Apr. 15; v. 261; p. 573.
- Hart, Harry S., Chicago, Ill. Hopper dump-car. No. 1,300,961; Apr. 15; v. 261; p. 573.
- Hart, Harry S., Chicago, Ill. Dump-car. No. 1,300,962; Apr. 15; v. 261; p. 573.
- Hart, Harry S., Chicago, Ill. Dump-car. No. 1,304,969; May 27; v. 262; p. 570.
- Hart, Harry S., Chicago, Ill. Locking mechanism for car-doors. No. 1,308,418; July 1; v. 264; p. 75.
- Hart, Harry S., assignor to National Dump Car Company, Chicago, Ill. General-service railway-car. No. 1,300,958; Apr. 15; v. 261; p. 572.
- Hart, Harry S., assignor to National Dump Car Co., Chicago, Ill. Door-operating mechanism. No. 1,318,444; Oct. 14; v. 267; p. 211.
- Hart, Harry S., assignor to National Dump Car Co., Chicago, Ill. Door-operating mechanism. No. 1,318,445; Oct. 14; v. 267; p. 211.
- Hart & Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
- Hart & Hegeman Manufacturing Company, The. (See Stirling, Clarence C., assignor.)
- Hart & Hegeman Manufacturing Company, The. (See Vossler, Henry, assignor.)
- Hart, Homer C., J. O. Jevne, and C. M. Staff, La Crosse, Wis. Plow-hoist. No. 1,294,261; Feb. 11; v. 259; p. 331.
- Hart, Hubert C., Unionville, Conn. Mathematical instrument. No. 1,320,689; Nov. 4; v. 268; p. 62.
- Hart, Loren D., Dickens, Iowa. Silo. No. 1,301,051; Apr. 15; v. 261; p. 593.
- Hart, Louis F., Groton, N. Y. Illuminated writing instrument. No. 1,310,476; July 22; v. 264; p. 550.
- Hart, Mildred L., administratrix. (See Lowry, Frederick S.)
- Hart, Miller H., Pittsburgh, Pa. Soil cultivation. No. 1,302,543; May 6; v. 262; p. 12.
- Hart, Orlando W., Fall River, Mass. Roller-bearing. No. 1,290,552; Jan. 7; v. 258; p. 130.
- Hart, Orlando W., Fall River, Mass. Roller-bearing. No. 1,300,385; Apr. 15; v. 261; p. 451.
- Hart, Orlando W., Fall River, Mass. Roller-bearing. No. 1,300,386; Apr. 15; v. 261; p. 452.
- Hart, Seth, and R. I. Eustis, Los Angeles, Calif. Adjustable propeller. No. 1,301,052; Apr. 15; v. 261; p. 593.
- Hart, Walter L., Milwaukee, Wis. Method of and apparatus for handling and storing coal. No. 1,319,704; Oct. 28; v. 267; p. 499.
- Hart, William E., San Jose, Calif. Automobile signal device. No. 1,315,185; Sept. 2; v. 266; p. 130.
- Hartburg, Herman L., Denver, Colo. Adjustable interlocking clamp. No. 1,302,544; May 6; v. 262; p. 12.
- Hartdorn, Louis G., New York, N. Y. Petcock-wrench. No. 1,311,889; Aug. 5; v. 265; p. 7.
- Hartenberger, Robert, Sheboygan Falls, Wis. Hip-ring. No. 1,326,862; Dec. 30; v. 269; p. 843.
- Hartenheim, Max, assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Protective means for bridge-type phase-splitters. No. 1,293,767; Feb. 11; v. 259; p. 215.
- Hartenheim, Max, assignor to Standard Chemical Company, Pittsburgh, Pa. Radioactive device. No. 1,317,082; Sept. 23; v. 266; p. 553.
- Harter, Charles, assignor of one-half to J. E. O'Brien, St. Louis, Mo. Adjustable thrust device for locomotive-wheels. No. 1,295,490; Feb. 25; v. 259; p. 673.
- Harter, Daniel M., Sacramento, Calif. Railroad-tie. No. 1,319,956; Oct. 28; v. 267; p. 547.
- Harter, Edward, Chicago, Ill. Telephone attachment. No. 1,291,499; Jan. 14; v. 258; p. 377.
- Harter, Frank E., Seattle, Wash. Micrometer-scale gage. No. 1,311,602; July 29; v. 264; p. 793.
- Harter Manufacturing Company. (See Worrell, Dwight E., assignor.)
- Hartford Automotive Parts Company, The. (See McCombe, George A., assignor.)
- Hartford, Edward V., Deal, N. J. Shock-absorber for vehicle suspension-springs. No. 1,304,970; May 27; v. 262; p. 570.
- Hartford, Edward V., Deal, N. J. Impulse-sender. No. 1,316,574; Sept. 23; v. 266; p. 459.
- Hartford-Fairmont Company. (See Lorenz, William, assignor.)
- Hartford-Fairmont Company. (See Peiler, Karl E., assignor.)
- Hartford-Fairmont Company. (See Peiler and Lorenz, Hartford Machine Gun Company, The. (See Reising, Eugene G., assignor.)
- Hartford Rubber Works Company, The. (See Lough, Hector V., assignor.)
- Hartford Rubber Works Company, The. (See Shea, John J., assignor.)
- Hartford Special Machinery Company, The. (See Avis, Samuel W., assignor.)
- Harth, August, Chatham, N. J. Electric heater. No. 1,307,198; June 17; v. 263; p. 430.
- Harth, August, Chatham, N. J., assignor to Redtop Electric Company, Inc. Electric heater. No. 1,318,554; Oct. 14; v. 267; p. 232.
- Hartig, Dora, Sooke, British Columbia, Canada. Sadrion-support. No. 1,316,031; Sept. 16; v. 266; p. 308.



- Hartley, Arthur J., Peoria, Ill. Friction-brake mechanism. No. 1,322,304; Nov. 18; v. 268; p. 480.
- Hartley, Bernard W., Haileybury, Ontario, Canada. Tire-chain. No. 1,302,364; Apr. 29; v. 261; p. 913.
- Hartley, John W., Stone, assignor of one-half to W. & T. Avery, Limited, Smethwick, England. Cupola-charging device. No. 1,322,169; Nov. 18; v. 268; p. 455.
- Hartman, Alfred C. (See Hockman, Ashby J., assignor.)
- Hartman, Carl, Rosemont, Nebr. Harness-buckle. No. 1,316,611; Sept. 23; v. 266; p. 466.
- Hartman, Carl H., Toledo, Ohio. Sheet-cutter. No. 1,306,009; June 10; v. 263; p. 177.
- Hartman, Elles E., New York, N. Y. Outing equipment for automobilists. No. 1,319,071; Oct. 21; v. 267; p. 355.
- Hartman, Elles E., New York, N. Y. Collapsible suitcase. No. 1,319,072; Oct. 21; v. 267; p. 356.
- Hartman, Elles E., New York, N. Y. Hinge. No. 1,320,143; Oct. 28; v. 267; p. 581.
- Hartman, Hans, New York, N. Y. Toilet-powder dispenser. No. 1,311,227; July 29; v. 264; p. 722.
- Hartman, Hans, and J. Erdoes, New York, N. Y. Autographic time-recorder. No. 1,306,481; June 10; v. 263; p. 267.
- Hartman, Jacob, and L. Joy, Indianapolis, Ind. Fountain tooth-brush. No. 1,314,646; Sept. 2; v. 266; p. 33.
- Hartman, James F., East Boston, Mass. Filling-feeler motion for looms. No. 1,318,665; Oct. 14; v. 267; p. 263.
- Hartman, Joseph M., Yardley, Pa. Seed-planter. No. 1,293,092; Feb. 4; v. 259; p. 28.
- Hartman, Louis. (See Lammert and Hartman.)
- Hartman, Rudolph B., Milwaukee, Wis. Mold for concrete columns. No. 1,295,310; Feb. 25; v. 259; p. 631.
- Hartman, Rudolph B., Milwaukee, Wis. Concrete building construction. No. 1,295,311; Feb. 25; v. 259; p. 632.
- Hartman, Rudolph B., Milwaukee, Wis. Combined floor and beam mold for concrete work. No. 1,295,312; Feb. 25; v. 259; p. 632.
- Hartman, Rudolph B., Milwaukee, Wis. Concrete floor construction. No. 1,318,995; Oct. 14; v. 267; p. 316.
- Hartman, Thomas J., Chicago, Ill. Shoulder-pad. No. 1,310,477; July 22; v. 264; p. 551.
- Hartmann, Carl. (See Bouché and Hartmann.)
- Hartmann, Carl, Lancaster, N. Y., assignor to Gould Coupler Company. Dynamo suspension. No. 1,302,037; Apr. 29; v. 261; p. 852.
- Hartmann, Helmut, West New York, N. J. Can. No. 1,325,515; Dec. 23; v. 269; p. 554.
- Hartmann, John H., Houston, Tex. Scraper. No. 1,292,461; Jan. 28; v. 258; p. 662.
- Hartmann, Julius F. G. P., Copenhagen, Denmark. Alternating-current rectifier. No. 1,306,335; June 10; v. 263; p. 240.
- Hartmann, Julius F. G. P., Copenhagen, Denmark. Arrangement in rectifiers for electric alternating currents. No. 1,322,187; Nov. 18; v. 268; p. 458.
- Hartnett, Michael, Milton, Pa. Railway-tie. No. 1,315,304; Sept. 9; v. 266; p. 162.
- Hartog, Stephen D., St. Louis, Mo. Vehicle-tire. No. 1,307,123; June 17; v. 263; p. 417.
- Harton, Mary J., executrix. (See Harton, Pembroke D.)
- Harton, Pembroke D., deceased. Philadelphia, Pa.; M. J. Harton, executrix. Cake-coating machine. No. 1,304,043; May 20; v. 262; p. 357.
- Hartong, Robert C., assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Producing rubber compositions and vulcanization product thereof. No. 1,301,693; Apr. 22; v. 261; p. 755.
- Hartridge, Clifford W. (See Vail, Robert W., assignor.)
- Hartshorn, Carr. (See Robertson, Holdman, assignor.)
- Hartshorn, Stewart H., Short Hills, N. J. Magnet. No. 1,317,786; Oct. 7; v. 267; p. 24.
- Hartshorne, Percy H. (See Wilks and Hartshorne.)
- Hartshorne, William D., Methuen, Mass., assignor to The Textet Corporation, Lawrence, Mass. Textile art. No. 1,313,594; Aug. 19; v. 265; p. 380.
- Hartssock, Sherman C., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Fertilizer-distributor. No. 1,313,595; Aug. 19; v. 265; p. 380.
- Hartsough, Ralph B., Minneapolis, Minn. Steering mechanism for tractors. No. 1,323,051; Nov. 25; v. 268; p. 673.
- Hartsough, Walter W., Minneapolis, Minn. Machine for plowing the soil. No. 1,290,986; Jan. 14; v. 258; p. 259.
- Hartsough, Walter W., Minneapolis, Minn. Excavating-truck. No. 1,315,666; Sept. 9; v. 266; p. 226.
- Hartung, Felix C. (See Pihfeldt and Hartung.)
- Hartung, Felix C., Chicago, Ill. Flag-holder. No. 1,319,334; Oct. 21; v. 267; p. 406.
- Hartung, Harry H., Boston, Mass. Antiskidding device. No. 1,293,424; Feb. 4; v. 259; p. 105.
- Hartung, Henry, Baltimore, Md. Sofa-bed. No. 1,301,936; Apr. 29; v. 261; p. 833.
- Hartt Boot and Shoe Company, The. (See Reid, John A., assignor.)
- Hartwell, Benjamin F., Revere, Mass. Machine for grading soles, &c. No. 1,320,227; Oct. 28; v. 267; p. 597.
- Hartwick, Ernest F., assignor to Fruehauf Trailer Company, Detroit, Mich. Supporting-jack. No. 1,313,087; Aug. 12; v. 265; p. 267.
- Hartwig, Hugo E. and T. A. Thompson, Hutchinson, Minn. Oar-lock. No. 1,324,020; Dec. 2; v. 269; p. 150.
- Hartwig, William G., assignor to A. Frantzen, Chicago, Ill. Thermo-electric regulator. No. 1,300,215; Apr. 8; v. 261; p. 389.
- Hartz, Henry V., deceased, Cleveland; W. G. Metzger, administrator, Painesville, Ohio. Life-boat. No. 1,295,893; Mar. 4; v. 260; p. 17.
- Harvey, Amasa. (See Causey and Harvey.)
- Harvey, Ashton, Greenwich, Conn. Drying machinery. No. 1,319,391; Oct. 21; v. 267; p. 417.
- Harvey, Charles, Somerville, Mass. Oil vaporizer and burner. No. 1,317,289; Sept. 30; v. 266; p. 629.
- Harvey, George L., Chicago, Ill. Exposure-meter. No. 1,292,600; Jan. 28; v. 258; p. 697.
- Harvey, George L., Chicago, Ill. Tandem draft-rigging. No. 1,294,797; Feb. 18; v. 259; p. 491.
- Harvey, George L., Chicago, Ill. Body-dumping vehicle. No. 1,294,798; Feb. 18; v. 259; p. 492.
- Harvey, George L., Chicago, Ill. Dumping-vehicle. No. 1,294,799; Feb. 18; v. 259; p. 492.
- Harvey, George L., Port Huron, Mich. Wheel attachment. No. 1,204,478; May 20; v. 262; p. 440.
- Harvey, Horace B., Cleveland, Ohio. Running-gear for automobiles. No. 1,298,204; Mar. 25; v. 260; p. 616.
- Harvey, Harold C., Milwaukee, Wis. Paper-feeding mechanism. No. 1,326,194; Dec. 30; v. 269; p. 717.
- Harvey, Harold C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Nesting-machine. No. 1,323,632; Dec. 2; v. 269; p. 76.
- Harvey Hubbell, Inc. (See Knapp, George P., assignor.)
- Harvey Hubbell, Incorporated. (See Newton, William J., assignor.)
- Harvey, Kenneth E. (See Larsen, Arnold, assignor.)
- Harvey, Leo M. (See Taubert, Edmund E., assignor.)
- Harvey, Louis B., Stockton, Calif. Tractor. No. 1,312,982; Aug. 12; v. 265; p. 244.
- Harvey, Louis B., assignor to Interlocking Auto Rim Company, Stockton, Cal. Combination wheel and rim. No. 1,292,601; Jan. 28; v. 258; p. 698.
- Harvey, Louis B., assignor to Interlocking Rim and Wheel Company, San Francisco, Calif. Disk-wheel. No. 1,307,005; June 17; v. 263; p. 396.
- Harvey, Richard S., Washington, D. C. Projectile. No. 1,312,114; Aug. 5; v. 265; p. 49.
- Harvey, Roy H. (See Rodgers and Harvey.)
- Harvey, Stuart. (See Rayson, Russell, assignor.)
- Harvey, Walter G. E., North Bergen, N. J. Casting-machine. No. 1,320,228; Oct. 28; v. 267; p. 597.
- Harvey, Walter J., Columbus, Ohio. Luxostat. No. 1,293,768; Feb. 11; v. 259; p. 215.
- Harwood, Frank. (See Harbaugh and Harwood.)
- Harwood, Sumpter L., Uniontown, Ala. Shaving-cup. No. 1,323,858; Dec. 2; v. 269; p. 119.
- Hasbrouck, Charles H., Binghamton, N. Y. Machine for protecting checks and the like. No. 1,296,511; Mar. 4; v. 260; p. 155.
- Hasbrouck, Charles H., Binghamton, N. Y. Machine for protecting checks and the like. No. 1,301,127; Apr. 22; v. 261; p. 645.
- Hasbrouck, Charles H., Binghamton, N. Y. Machine for protecting checks and the like. No. 1,302,655; May 6; v. 262; p. 33.
- Haselhurst, Samuel R., Meadville, Pa. Combined cleaning and beading tool. No. 1,323,052; Nov. 25; v. 268; p. 673.
- Haseltine, Alfred E., Greene county, Mo. Automatic train-stop. No. 1,300,963; Apr. 15; v. 261; p. 573.
- Hashimoto, Koforo, New York, N. Y. Game of fortunes. No. 1,305,100; Mar. 27; v. 262; p. 595.
- Hashimoto, Shuzo, Kobe, assignor to Nippon Yusen Kwaisha Ltd., Tokyo, Japan. Thrust-meter. No. 1,297,686; Mar. 18; v. 260; p. 479.
- Haskel, Fred, Detroit, Mich. Universal card-holder. No. 1,303,661; May 13; v. 262; p. 249.
- Haskelite Manufacturing Corporation. (See Haskell, Henry L., assignor.)
- Haskell, Henry A., South Braintree, Mass. Nut-clamp. No. 1,322,434; Nov. 18; v. 268; p. 506.
- Haskell, Henry L., Ludington, assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Boat and canoe. No. 1,298,042; Mar. 25; v. 260; p. 581.
- Haskell, Henry L., Ludington, Mich., assignor to Haskelite Manufacturing Corporation. Hinge. No. 1,309,730; July 15; v. 264; p. 384.
- Haskell, James B., F. Brueske and C. C. Palmer, assignors to Crosby Automatic Door Company, Minneapolis, Minn. Automatic door-opener. No. 1,323,529; Dec. 2; v. 269; p. 53.
- Haskell, Sidney B., assignor to Soil Improvement Committee of the National Fertilizer Association, Baltimore, Md. Automatic formula-finder. No. 1,323,763; Dec. 2; v. 269; p. 101.
- Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Pneumatic switch. No. 1,297,687; Mar. 18; v. 260; p. 479.



## Alphabetical list of patentees—Continued.

- Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Starting and stopping mechanism for automatically-played musical instruments. No. 1,304,971; May 27; v. 262; p. 570.
- Haskell, William E., assignor to Estey Organ Company, Brattleboro, Vt. Organ. No. 1,323,530; Dec. 2; v. 269; p. 58.
- Haskell, William W., Ord, Nebr. Attachment for eveners. No. 1,320,229; Oct. 28; v. 267; p. 597.
- Haskett, Joe D. (See Scott and Haskett.)
- Haskins, Butler J., assignor to E. S. Cowie Electric Co., Kansas City, Mo. Holding and driving device for testing purposes. No. 1,310,396; July 15; v. 264; p. 505.
- Haskins, Butler J., assignor of three-fourths to A. Josephson, R. Finkelstein, Kansas City, Co., and A. H. Rabin. Chicago, Ill. Electrical block train-stoppage and signal-setting system. No. 1,312,249; Aug. 5; v. 265; p. 74.
- Haskins, George W., and E. H. Kellogg, Lovell, Okla. Air-pressure regulator for pneumatic tires. No. 1,303,893; May 20; v. 262; p. 330.
- Haskins, William A., West Somerville, Mass. Fountain-pen. No. 1,307,630; June 24; v. 263; p. 542.
- Hasko, John P., and A. S. Graca, Lakewood, Ohio. Ship-retarder. No. 1,292,770; Jan. 28; v. 258; p. 737.
- Hassler, James, *et al.* (See Pearson, James H., assignor.)
- Haslup, Dodson, Grafton, Va. Cap-remover. No. 1,294,658; Feb. 18; v. 259; p. 459.
- Haslup, Edward W., Bronxville, assignor to Gilchrist, Haslup & Peacock, Inc., New York, N. Y. Making magnesium carbonitride in blast-furnaces. No. 1,291,498; Jan. 14; v. 258; p. 377.
- Haslup, Edward W., assignor to R. Gilchrist, New York, N. Y. Recovering fixed nitrogen. No. 1,310,478; July 22; v. 264; p. 551.
- Haslup, Edward W., Bronxville, assignor to R. Gilchrist, New York, N. Y. Making ammonia from atmospheric nitrogen. No. 1,310,479; July 22; v. 264; p. 551.
- Haslup, Edward W., Bronxville, assignor to R. Gilchrist, New York, N. Y. Recovering combined nitrogen from blast-furnaces. No. 1,310,480; July 22; v. 264; p. 551.
- Haslup, Edward W., Bronxville, N. Y., and B. A. Peacock, Philadelphia, Pa.; said Peacock assignor to said Haslup. Extracting values from manganese and other ores. No. 1,291,867; Jan. 21; v. 258; p. 496.
- Hass, Joe, Pittsburgh, Pa. Lamp-burner. No. 1,306,010; June 10; v. 263; p. 177.
- Hassall, William, Woodville, Burton-on-Trent, England. Refractory gas-burning block for flues. No. 1,321,822; Nov. 18; v. 268; p. 391.
- Hassel, Nels H., Los Angeles, Calif. Riveting device. No. 1,309,134; July 8; v. 264; p. 236.
- Hassel, Nels H., Pasadena, Calif. Menu-holder. No. 1,313,377; Aug. 19; v. 265; p. 338.
- Hasselknippe, Lars, Gjøvik, Norway. Motor-sled. No. 1,291,500; Jan. 14; v. 258; p. 377.
- Hasselquist, Hugo S., Chicago, Ill., assignor to Wahl Company, Wilmington, Del. Fountain-pen. No. 1,325,844; Dec. 23; v. 269; p. 616.
- Hassinger, Adolph T., Chicago, Ill. Apparatus for determining the specific gravity of liquids. No. 1,290,553; Jan. 7; v. 258; p. 130.
- Hassler, Robert H., Indianapolis, Ind. Spring suspension. No. 1,293,425; Feb. 4; v. 259; p. 105.
- Hast, Emma W., Louisville, Ky. Sanitary appliance. No. 1,294,099; Feb. 11; v. 259; p. 293.
- Hastey, William M., *et al.* (See Loveless, Fred H., assignor.)
- Hastings, Cornelius G., Glendale, Calif., assignor of one-half to B. T. Walters, Lancaster, Ohio. Machine for spacing and spiking rails to ties. No. 1,321,909; Nov. 18; v. 268; p. 407.
- Hastings, Donald T. (See Holley and Hastings.)
- Hastings, Donald T., assignor to Holley Brothers Company, Detroit, Mich. Carbureter. No. 1,305,464; June 3; v. 263; p. 44.
- Hastings, Harold P. (See Bissell and Hastings.)
- Hastings, Harold P., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electric switch. No. 1,307,006; June 17; v. 263; p. 396.
- Hastings, Herbert, Brighton, N. Y. Fluid-gage. No. 1,305,719; June 3; v. 263; p. 92.
- Hastings, Herbert, assignor to Art in Buttons, Incorporated, Rochester, N. Y. Turning-machine. No. 1,303,199; May 6; v. 262; p. 137.
- Hastings, Herbert, Rochester, N. Y., assignor to Art in Buttons, Incorporated. Backing and extracting tool for button-turning machines. No. 1,321,910; Nov. 18; v. 268; p. 407.
- Hastings, Horace H., New York, N. Y. Hydrocarbon-burner. No. 1,303,662; May 13; v. 262; p. 249.
- Hastings, Leroy C. (See Hastings, William E., assignor.)
- Hastings, William E., assignor of one-half to L. C. Hastings, Sandusky, Ohio. Seesaw and merry-go-round. No. 1,319,073; Oct. 21; v. 267; p. 356.
- Hasty, Charles E., assignor of sixty-six and two-thirds per cent. to A. Newman and W. O. Conger, Cleveland, Ohio. Tube-heading device. No. 1,326,195; Dec. 30; v. 269; p. 718.
- Hasty, John B., San Bernardino, Calif. Drill-feed mechanism. No. 1,307,547; June 24; v. 263; p. 528.
- Haswell, John C. (See Brien, James T., assignor.)
- Haszinger, George E., Galveston, Tex. Pump. No. 1,321,630; Nov. 11; v. 268; p. 304.
- Hatashita, Sezo. (See Kedzierski and Hatashita.)
- Hatch, Austin S., Detroit, Mich. Electric welder. No. 1,291,501; Jan. 14; v. 258; p. 378.
- Hatch, Delford, Alta, Iowa. Adjustable level-stand. No. 1,308,630; July 1; v. 264; p. 114.
- Hatch, Edward, assignor to F. A. Douty, Portland, Oreg. Bundling-machine. No. 1,300,166; Apr. 8; v. 261; p. 378.
- Hatch, Edwin G., New York, N. Y. Lifting-jack. No. 1,321,823; Nov. 18; v. 268; p. 391.
- Hatch, Fred W., Barronett, Wis. Funnel. No. 1,311,393; July 29; v. 264; p. 754.
- Hatch, Harry W. (See Welt and Whitehouse, assignors.)
- Hatch, Nathan, Albany, N. Y. Garment. No. 1,303,663; May 13; v. 262; p. 249.
- Hatcher, Abraham L., Texola, Okla. Combination corn and pea planter. No. 1,324,045; Dec. 9; v. 269; p. 199.
- Hately, Charles F., assignor to National Surface Guard Company, Chicago, Ill. Cattle-guard. No. 1,294,659; Feb. 18; v. 259; p. 459.
- Hately, Charles F., assignor to National Surface Guard Company, Chicago, Ill. Cattle-guard. No. 1,299,462; Apr. 8; v. 261; p. 221.
- Hathfield, Andrew L., Hillside, N. J. Water-gage. No. 1,324,046; Dec. 9; v. 269; p. 199.
- Hathfield, Charles N., Fountain City, Ind. Grain and seed cleaner. No. 1,323,691; Dec. 2; v. 269; p. 87.
- Hathfield, Hubert A., London, assignor to H. A. H. Tractors Limited, Birmingham, England. Endless track. No. 1,296,512; Mar. 4; v. 260; p. 155.
- Hathfield, Hubert A., London, assignor to H. A. H. Tractors Limited, Birmingham, England. Endless track. No. 1,297,844; Mar. 18; v. 260; p. 513.
- Hathfield, Hubert A., London, assignor to H. A. H. Tractors Limited, Birmingham, England. Motor-driven vehicle having endless tracks. No. 1,299,937; Apr. 8; v. 261; p. 328.
- Hathfield, Schuyler C., Baltimore, Md. Elastic wheel. No. 1,324,114; Dec. 9; v. 269; p. 212.
- Hathaway, Charles F., Fairport, assignor to Angular Drill and Machine Corporation, New York, N. Y. Square-hole drill-chuck. No. 1,299,938; Apr. 8; v. 261; p. 328.
- Hathaway, Edgar F., assignor to American Warp Drawing Machine Company, Boston, Mass. Thread-uniting machine. No. 1,305,706; June 3; v. 263; p. 90.
- Hathaway, Edgar F., and C. Lea, Boston, Mass., assignors to American Warp Drawing Machine Company. Warp-replenishing machine. No. 1,304,875; May 27; v. 262; p. 553.
- Hathaway, Edgar F., and C. Lea, Boston, Mass., assignors to American Warp Drawing Machine Company. Textile-machine. No. 1,313,294; Aug. 19; v. 265; p. 323.
- Hathaway, Joseph D., Montreal, Quebec, Canada. Cover for fuses of projectiles. No. 1,313,088; Aug. 12; v. 265; p. 267.
- Hathcox, Alvis J., Durant, Okla. Door-closer. No. 1,294,903; Feb. 18; v. 259; p. 516.
- Hatmaker, William T., Dayton, Ohio. Gasolene-dispensing pump. (Reissue.) No. 14,702; Aug. 5; v. 265; p. 123.
- Hatmaker, William T., Dayton, Ohio. Liquid-dispensing pump. No. 1,316,032; Sept. 16; v. 266; p. 308.
- Hatt, Joseph A. H., Brooklyn, N. Y. Producing printing-plates. No. 1,302,919; May 6; v. 262; p. 84.
- Hatt, Joseph A. H., Brooklyn, N. Y. Machine for making printing-plates. No. 1,302,920; May 6; v. 262; p. 84.
- Hatt, Joseph A. H., Brooklyn, N. Y. Photo-mechanical screen and making same. No. 1,317,493; Sept. 30; v. 266; p. 668.
- Hatt, Lemuel J., St. Louis, Mo. Bucket. No. 1,298,340; Mar. 25; v. 260; p. 644.
- Hatton, R. D., *et al.*, trustees. (See Hoover, Charles O., assignor.)
- Hatton, Rudolph R., New York, N. Y. Resilient wheel. No. 1,315,491; Sept. 9; v. 266; p. 196.
- Hattori, Sanroku, Tokyo, Japan. Carbon-paper. No. 1,292,404; Jan. 21; v. 258; p. 627.
- Hatz, George J. (See Fuller, Charles E., assignor.)
- Hauber, Mathias, Jr., West Haverstraw, N. Y. Recovery of potassium and aluminum compounds. No. 1,323,764; Dec. 2; v. 269; p. 101.
- Hauck, Arthur E., New York, N. Y. Kerosene-vapor burner. No. 1,324,115; Dec. 9; v. 269; p. 212.
- Hauerwas, John J. (See Schweinle and Hauerwas.)
- Haug, Anton J., Nashua, N. H. Mechanical starter for explosive-engines. No. 1,305,720; June 3; v. 263; p. 93.
- Haug, Anton J., assignor to Improved Paper Machinery Company, Nashua, N. H. Machine for and process of working paper-stock. No. 1,302,469; Apr. 29; v. 261; p. 934.
- Haug, Anton J., assignor to Improved Paper Machinery Company, Nashua, N. H. Pulp-screening. No. 1,319,705; Oct. 28; v. 267; p. 499.
- Haug, Nils C., Drammen, Norway. Machine for taking up potatoes, &c. No. 1,309,196; July 8; v. 264; p. 247.
- Hauge, Oscar, and W. A. England, San Francisco, Calif. Machine for making pastry-shells. No. 1,310,990; July 22; v. 264; p. 645.



- Haugen, Carl K., Portland, N. D. Toy. No. 1,290,987; Jan. 14; v. 258; p. 259.
- Haughton, R. B. G. (See Lacerda, Harry A., assignor.)
- Hauk, Joseph, assignor to Interstate Iron and Steel Company, Chicago, Ill. Wire-hoop machine. No. 1,307,735; June 24; v. 263; p. 562.
- Haulter, Merl I., Shippensburg, Pa. Cushion wheel and tire. No. 1,299,722; Apr. 8; v. 261; p. 280.
- Hauman, Frank J., Bay Shore, N. Y. Airplane-engine muffler. No. 1,318,996; Oct. 14; v. 267; p. 316.
- Haumesser, Thodore. (See Lindahl, Erick P., assignor.)
- Hau, Wallace F., Meadville, Pa. Locomotive-grate. No. 1,312,031; Aug. 5; v. 265; p. 34.
- Haupt, Mathias, Spokane, Wash. Driving-axle. No. 1,316,232; Sept. 16; v. 266; p. 345.
- Haupt, Mathias P., Spokane, Wash. Motor-vehicle. No. 1,302,545; May 6; v. 262; p. 13.
- Hauptman, Herman, Beaver, Pa. Displaying device. No. 1,322,435; Nov. 18; v. 268; p. 506.
- Haus, Henry, Pope Valley, Cal. Joint for drill-bits and other purposes. No. 1,296,954; Mar. 11; v. 260; p. 293.
- Hausam, Albert G. (See Tonkinson and Hausam.)
- Häuselmann, Christian, Sumiswald, Switzerland. Device for securing the correct holding of the hand when writing and for facilitating such writings. No. 1,303,304; May 13; v. 262; p. 184.
- Hauser, Bonner B., San Francisco, Calif. Fence-post. No. 1,303,894; May 20; v. 262; p. 330.
- Hauser, Frank J. (See Simon, Gauthier, and Hauser.)
- Hauser, Gustav W., Jackson, Tenn. Awning-arm. No. 1,312,846; Aug. 12; v. 265; p. 219.
- Hauser, Jacob, assignor to Hauser Machine & Manufacturing Co., Inc., Rochester, N. Y. Air-pump. No. 1,324,894; Dec. 16; v. 269; p. 422.
- Hauser, Leopold, New York, N. Y. Toilet article. No. 1,316,303; Sept. 16; v. 266; p. 359.
- Hauser Machine & Manufacturing Co. (See Hauser, Jacob, assignor.)
- Hauser, Martin, Kansas City, Mo. Ventilator. No. 1,319,526; Oct. 21; v. 267; p. 443.
- Hauser Printing Company. (See Rogers, Hugh, Sr., assignor.) (Reissue.)
- Hauser, Richard J., assignor of one-half to G. K. Henderson, Indianapolis, Ind. Multicolor-printing machine. No. 1,307,007; June 17; v. 263; p. 397.
- Hausinger, Lawrence, Alhambra, Cal. Baby-chair. No. 1,295,984; Mar. 4; v. 260; p. 37.
- Hauss, Barbara, administratrix. (See Hauss, David J.)
- Hauss, David J., deceased, Aurora, Ind.; B. Hauss, administratrix, assignor to F. W. Galbraith, Alloy. No. 1,293,426; Feb. 4; v. 259; p. 105.
- Hausmann, Herman, and G. C. Kiesling, Chicago, Ill. Electric-lamp holder. No. 1,303,555; May 13; v. 262; p. 230.
- Hausmann, John F., assignor of one-half to Badger Packard Machinery Co., Milwaukee, Wis. Motor-cycle. No. 1,302,656; May 6; v. 262; p. 33.
- Hausmann, John F., assignor of one-half to Badger Packard Machinery Co., Milwaukee, Wis. Motor-cycle-clutch. No. 1,317,290; Sept. 30; v. 266; p. 629.
- Hautala, Emil, Bruce Crossing, Mich. Speed-indicator for separators. No. 1,308,671; July 1; v. 264; p. 121.
- Havemeyer, John F., Ardsley-on-Hudson, N. Y. Tie-piece for metallic reinforces. No. 1,296,513; Mar. 4; v. 260; p. 156.
- Havener, Arthur R., Wayland, Mass., assignor to American Lacing Hook Co. Lacing-stud-setting machine. No. 1,301,432; Apr. 22; v. 261; p. 705.
- Havens, Ira C., Kalamazoo, Mich. Auxiliary propeller for motor-vehicles. No. 1,298,703; Apr. 1; v. 261; p. 19.
- Havens, Joseph D. (See Salter, William A., assignor.)
- Havens, Neil F., Alexandria, Va. Hoisting mechanism. No. 1,312,115; Aug. 5; v. 265; p. 50.
- Havens, Raymond M., administrator. (See Salter, William A., assignor.)
- Haviland, Henry B., Ferry Road, New Brunswick, Canada. Acid-valve structure. No. 1,325,846; Dec. 23; v. 269; p. 616.
- Havlina, Joseph, Mosinee, Wis. Water-motor. No. 1,304,972; May 27; v. 262; p. 571.
- Hawes, Robert W., Brunswick, Ga. Scaffold. No. 1,312,398; Aug. 5; v. 265; p. 102.
- Hawes, Russell M., Jersey City, N. J. Bending-tool. No. 1,324,670; Dec. 9; v. 269; p. 319.
- Hawk, Roscoe C., Pittsburgh, Pa., assignor to R. Hoe and Co., New York, N. Y. Web-roll support. No. 1,309,621; July 15; v. 264; p. 363.
- Hawk, Ruby R., Chicago, Ill. Meat rail and hook. No. 1,294,457; Feb. 18; v. 259; p. 413.
- Hawken, Darcy A., Awakino Point, Auckland, New Zealand. Bomb for flying-machines. No. 1,306,664; June 10; v. 263; p. 301.
- Hawker, William, Edmonton, Alberta, Canada. Smoke-stack. No. 1,322,565; Nov. 25; v. 268; p. 582.
- Hawkes, Frederic W., New York, N. Y. Thread cutter and holder. No. 1,298,501; Mar. 25; v. 260; p. 680.
- Hawkes, Le Grande S. (See Russell and Hawkes.)
- Hawkesworth, Arthur L., Butte, Mont. Oil-pump. No. 1,296,077; Mar. 4; v. 260; p. 59.
- Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,296,078; Mar. 4; v. 260; p. 60.
- Hawkesworth, Arthur L., Butte, Mont. Ventilator. No. 1,318,750; Oct. 14; v. 267; p. 269.
- Hawkey, Bertha, London, England. Garment. No. 1,304,179; May 20; v. 262; p. 381.
- Hawkins, Alda F., Fort Worth, Tex. Molding device. No. 1,323,592; Dec. 2; v. 269; p. 69.
- Hawkins, Alfred J., Montreal, Quebec, Canada. Treating leather. No. 1,326,261; Dec. 30; v. 269; p. 731.
- Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-shoe-key lock. No. 1,304,044; May 20; v. 262; p. 357.
- Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Car-ladder. No. 1,311,348; July 29; v. 264; p. 745.
- Hawkins, Charles E. (See Macy, Charles B., assignor.)
- Hawkins, Charles W., Zeus, Va. Brace for leaf-springs. No. 1,294,338; Feb. 11; v. 259; p. 349.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Safety operating mechanism. No. 1,296,798; Mar. 11; v. 260; p. 257.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Box-covering machine. No. 1,302,546; May 6; v. 262; p. 13.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Shear mechanism. No. 1,321,207; Nov. 11; v. 268; p. 223.
- Hawkins, Edwin C., Noblesville, Ind. Waterproofed paper container. No. 1,301,840; Apr. 29; v. 261; p. 814.
- Hawkins, Edwin C., Noblesville, Ind. Coating paper containers. No. 1,301,841; Apr. 29; v. 261; p. 814.
- Hawkins, Elbert E., Unadilla, N. Y. Tension-lug for silos, &c. No. 1,315,119; Sept. 2; v. 266; p. 118.
- Hawkins, Elbert E., Unadilla, N. Y. Tension-lug for silos and tanks. No. 1,315,120; Sept. 2; v. 266; p. 118.
- Hawkins, Elwood, Atlantic City, N. J. Toy. No. 1,319,581; Oct. 21; v. 267; p. 453.
- Hawkins, Frank D., Mitchell, S. D. Recoil-pad. No. 1,325,152; Dec. 16; v. 269; p. 470.
- Hawkins, Frank L., Tarkio, Mo. Stock-feeder. No. 1,316,838; Sept. 23; v. 266; p. 508.
- Hawkins Invisible Belt Company. (See Hawkins, Norment D., Jr., assignor.)
- Hawkins, John W., Mumfordsville, Ky. Gate. No. 1,294,339; Feb. 11; v. 259; p. 349.
- Hawkins, John W., Kokomo, Ind. Staple-binder. No. 1,309,731; July 15; v. 264; p. 384.
- Hawkins, Julius, Seattle, Wash. Combined davenport and bed. No. 1,321,911; Nov. 18; v. 268; p. 407.
- Hawkins, Mason A., Baltimore, Md. Box for player-piano music-rolls. No. 1,309,030; July 8; v. 264; p. 217.
- Hawkins, Norment D., Jr., assignor to Hawkins Invisible Belt Company, Pittsburgh, Pa. Belt. No. 1,297,158; Mar. 11; v. 260; p. 338.
- Hawkins, Owen, Globe, Ariz. Ore-separator. No. 1,312,324; Aug. 5; v. 265; p. 87.
- Hawkins, Robert H., Crocker. Road-machine. No. 1,318,555; Oct. 14; v. 267; p. 232.
- Hawkins, Wilford J., Montclair, N. J., assignor to International Arms and Fuze Company, New York, N. Y. Finishing the exterior of fuse-closing caps. No. 1,294,337; Feb. 11; v. 259; p. 349.
- Hawks, Edward A., Detroit, Mich. Explosive shell. No. 1,305,967; June 3; v. 263; p. 140.
- Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,299,939; Apr. 8; v. 261; p. 328.
- Hawley, Amos H. (See Mann and Hawley.)
- Hawley, Amos H., Norwood, Ohio, assignor to International Money Machine Company, Terre Haute, Ind. Platen mechanism for accounting-machines. No. 1,295,307; Feb. 25; v. 259; p. 630.
- Hawley, Amos H., Norwood, Ohio, assignor to International Money Machine Company, Reading, Pa. Accounting-machine handle. No. 1,311,394; July 29; v. 264; p. 754.
- Hawley, Charles G. (See Baker, Erle K., assignor.)
- Hawley Pulp and Paper Company. (See Swick, Clyde E., assignor.)
- Hawley, Royal A., assignor of one-third to J. Driver and one-third to J. Rubenkoenig, Graham, Tex. Steering mechanism for road-graders. No. 1,308,847; July 8; v. 264; p. 182.
- Hawley, William G., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Fire-pump motor-cooling system. No. 1,291,502; Jan. 14; v. 258; p. 378.
- Hawley, William G., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Friction-clutch. No. 1,294,800; Feb. 18; v. 259; p. 492.
- Hawley, William G., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Automobile fire-engine. No. 1,306,760; June 17; v. 263; p. 351.
- Hawley, William G., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Shut-off nozzle. No. 1,309,732; July 15; v. 264; p. 384.
- Hawrylasz, Nikyfor, assignor of one-half to N. Jurach, Southington, Conn. Nut-lock. No. 1,297,845; Mar. 18; v. 260; p. 513.
- Haws, Frank R., Monmouth, Ill. Window attachment. No. 1,204,479; May 20; v. 262; p. 440.
- Hawthorn, Louis A. (See Frelinghuysen and Hawthorne.)



*Alphabetical list of patentees—Continued.*

- Hawthorne, Charles W., Hamilton, Ontario, Canada, assignor to Morgan Construction Company, Worcester, Mass. Rod-switching mechanism. No. 1,291,868; Jan. 21; v. 258; p. 496.
- Hawthorne, Charles W., Buffalo, N. Y., assignor to Morgan construction Company, Worcester, Mass. Handling and rolling billets. No. 1,292,462; Jan. 28; v. 258; p. 662.
- Hawthorne, Charles W., Hamilton, Ontario, Canada, assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 1,302,921; May 6; v. 262; p. 84.
- Hawthorne, Charles W., Buffalo, N. Y., assignor to Morgan Construction Company, Worcester, Mass. Billet-handling device for rolling-mills. No. 1,308,986; July 8; v. 264; p. 208.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Mounting for framed elements. No. 1,299,723; Apr. 8; v. 261; p. 280.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Electric switch. No. 1,304,564; May 27; v. 262; p. 495.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Combined battery and tool box for vehicles. No. 1,306,146; June 10; v. 263; p. 202.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,314,589; Sept. 2; v. 266; p. 22.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,314,590; Sept. 2; v. 266; p. 22.
- Hawthorne, Louis A., Newark, and B. S. Pero, Jersey City, N. J., assignors to Steel Utilities, Incorporated. Metal-working machine. No. 1,311,276; July 29; v. 264; p. 731.
- Hawthorne Manufacturing Company. (See Gervais, Stanislaus, assignor.)
- Hawxburst, Clarence O., St. Louis, Mo. Indicator. No. 1,290,988; Jan. 14; v. 258; p. 259.
- Hawxburst, Timothy S. K., Bayonne, N. J., assignor to Gulf Refining Company, Pittsburgh, Pa. Tank-car. No. 1,307,494; June 24; v. 263; p. 518.
- Hay, Glen W., assignor of one-half to G. B. Mann, Spokane, Wash. Sterilizing apparatus. No. 1,316,612; Sept. 23; v. 266; p. 466.
- Hay, John T., Lackawanna, N. Y. Innersole, arch-support, shoe-cushion, and ventilator. No. 1,317,161; Sept. 30; v. 266; p. 605.
- Hay, Robert K., Chopwell, assignor to himself and Underfeed Stoker Company Limited, London, England. Removal of ash and clinker falling from the grates of boilers. No. 1,324,671; Dec. 9; v. 269; p. 319.
- Hay, William, Holyoke, Mass. Automobile-signal. No. 1,301,842; Apr. 29; v. 261; p. 814.
- Hayashi, Toyokichi, New York, N. Y. Match retaining and dispensing device. No. 1,292,463; Jan. 28; v. 258; p. 663.
- Hayden, Arthur C., assignor to Hayden & Clemons, Inc., Brockton, Mass. Mat-fitting. No. 1,306,336; June 10; v. 263; p. 240.
- Hayden, Arthur C., assignor to Hayden & Clemons, Inc., Brockton, Mass. Machine for assembling sole-leather and like mats. No. 1,306,337; June 10; v. 263; p. 240.
- Hayden & Clemons. (See Hayden, Arthur C., assignor.)
- Hayden, Clyde C., Okmulgee, Okla. Pulley. No. 1,314,190; Aug. 26; v. 265; p. 526.
- Hayden, David H., New York, N. Y. Reinforcement for the composition covering of structural shapes. No. 1,300,835; Apr. 15; v. 261; p. 546.
- Hayden, Don H., Cleveland, Ohio. Switch-box or outlet-box. No. 1,326,498; Dec. 30; v. 269; p. 774.
- Hayden, Henry A., assignor to Hayden Inventions Corporation, Westfield, N. J. Cleaning implement. No. 1,313,184; Aug. 12; v. 265; p. 286.
- Hayden, Henry A., assignor to Hayden Inventions Corporation, Westfield, N. J. Brush. No. 1,313,185; Aug. 12; v. 265; p. 286.
- Hayden, Henry A., assignor to Hayden Inventions Corporation, Westfield, N. J. Cleaning implement. No. 1,315,121; Sept. 2; v. 266; p. 118.
- Hayden Inventions Corporation. (See Hayden, Henry A., assignor.)
- Hayden, John H., Pelham Manor, N. Y. Stabilized projectile. No. 1,316,033; Sept. 16; v. 266; p. 308.
- Hayden, John H., Pelham Manor, N. Y. Stabilized projectile. No. 1,316,363; Sept. 16; v. 266; p. 370.
- Hayden, Oscar S., Oklahoma, Okla. Mail-bag catching and delivering apparatus. No. 1,326,449; Dec. 30; v. 269; p. 765.
- Hayden, Royal C., Oakes, N. D. Combination-tool. No. 1,306,896; June 17; v. 263; p. 376.
- Hayden, Zerah G., Eldora, Iowa. Combined scissors and square. No. 1,296,660; Mar. 11; v. 260; p. 225.
- Haydenville Company, The. (See Dunphy, Thomas F., assignor.)
- Haydock, Robert S., Cranford, N. J. Swaging-machine. No. 1,324,150; Dec. 9; v. 269; p. 218.
- Hayes, Delbert R., Detroit, Mich. Adjustable scale-holder. No. 1,324,963; Dec. 16; v. 269; p. 435.
- Hayes, Fred L., Rockland, Mass. Shoe. (Reissue.) No. 14,744; Oct. 28; v. 267; p. 624.
- Hayes, George B. and W. A., Denver, Colo. Beet-harvesting machine. No. 1,294,801; Feb. 18; v. 259; p. 492.
- Hayes, George H., Hazelton, Kans. Fuel-heater for explosive-engines. No. 1,307,124; June 17; v. 263; p. 418.
- Hayes, George H., Hazelton, Kans. Sickle attachment. No. 1,326,339; Dec. 30; v. 269; p. 744.
- Hayes, Hugh, Mapleton Depot, Pa. Hose-clamp. No. 1,293,093; Feb. 4; v. 259; p. 28.
- Hayes, James, Cleveland, Ohio. Toilet accessory. No. 1,302,038; Apr. 29; v. 261; p. 852.
- Hayes, John P., and J. E. Barnhart, Pittsburgh, Pa. Rotary snap-switch. No. 1,305,541; June 3; v. 263; p. 59.
- Hayes, Loren, and L. D. McKenzie, Los Angeles, Cal. Shoe-buckle holder. No. 1,295,985; Mar. 4; v. 260; p. 38.
- Hayes Pump & Planter Company. (See Hayes, Ralph W. E., assignor.)
- Hayes, Ralph W. E., assignor of one-half to Hayes Pump & Planter Company, Galva, Ill. Cultivator. No. 1,293,769; Feb. 11; v. 259; p. 215.
- Hayes, Ralph W. E., assignor of one-half to Hayes Pump & Planter Company, Galva, Ill. Pump-regulator or relief-valve. No. 1,314,746; Sept. 2; v. 266; p. 51.
- Hayes, Robert D., assignor to Index Visible, Incorporated, New Haven, Conn. Index or file. No. 1,304,180; May 20; v. 262; p. 382.
- Hayes, Robert D., assignor to Index Visible, Incorporated, New Haven, Conn. Index or file. No. 1,308,586; July 1; v. 264; p. 106.
- Hayes, Rollie R., Peoria, Ill. Paint-bucket hanger. No. 1,308,066; July 1; v. 264; p. 11.
- Hayes, Stanley W., Richmond, Ind. Derrail. No. 1,306,961; June 17; v. 263; p. 388.
- Hayes, Stanley W., Richmond, Ind. Derrail. No. 1,309,434; July 8; v. 264; p. 291.
- Hayes, Stanley W., Richmond, Ind. Switch-stand. No. 1,312,691; Aug. 12; v. 265; p. 189.
- Hayes, Stanley W., Richmond, Ind. Connection for track appliances. No. 1,314,062; Aug. 26; v. 265; p. 501.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Straightaway blindstitch sewing-machine. No. 1,291,503; Jan. 14; v. 258; p. 378.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Feeding mechanism for blindstitch sewing-machines. No. 1,294,660; Feb. 18; v. 259; p. 459.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Bobbin-case for sewing-machines. No. 1,316,444; Sept. 16; v. 266; p. 386.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Work-presenting mechanism for blindstitch sewing-machines. No. 1,319,218; Oct. 21; v. 267; p. 384.
- Hayes, Thomas J., Alameda, Cal., assignor to Arbetter Felling Machine Company, Boston, Mass. Blindstitch sewing-machine. No. 1,296,514; Mar. 4; v. 260; p. 156.
- Hayes, Walter A. (See Hayes, George B. and W. A.)
- Hayhurst, Walter, Woodlands Accrington, England. Vessel for containing acids and other liquids. No. 1,313,819; Aug. 19; v. 265; p. 421.
- Hayman, Edward C. (See Schierse, Emil, assignor.)
- Haymond, Wirt L., Webster Groves, assignor of one-half to H. A. Morsman, St. Louis, Mo. Attachment for desk-telephones. No. 1,303,305; May 13; v. 262; p. 184.
- Hayne, John T., Buffalo, N. Y. Supplemental running-board for automobiles. No. 1,294,904; Feb. 18; v. 259; p. 516.
- Haynes, Elwood, Kokomo, Ind., assignor to The American Stainless Steel Company, Pittsburgh, Pa. Wrought-metal article. No. 1,299,404; Apr. 1; v. 261; p. 179.
- Haynes, Frank S., Robinson, Ill. Power-driven clutch for belts. &c. No. 1,323,362; Dec. 2; v. 269; p. 26.
- Haynes, George P., Jersey City, N. J., assignor to Patterson-Allen Engineering Company, Valve. No. 1,324,351; Dec. 9; v. 269; p. 257.
- Haynes, Jackson C., Mountpleasant, assignor of one-third to C. H. Butler, Jr., Nashville, and one-third to A. A. Smith, Mountpleasant, Tenn. Fore-truck. No. 1,324,047; Dec. 9; v. 269; p. 199.
- Haynes, William G., Coffeyville, Kans. Plug foundation for wells. No. 1,322,436; Nov. 18; v. 268; p. 506.
- Hays, Charles F., Cottagegrove, Tenn. Display-stand. No. 1,292,314; Jan. 21; v. 258; p. 607.
- Hays, Donald S., Washington, D. C. Powder-bag clamp. No. 1,296,515; Mar. 4; v. 260; p. 156.
- Hays, Donald S., U. S. Army. Bailing-scoop. No. 1,302,365; Apr. 29; v. 261; p. 913.
- Hays, Franklin B. (See Gorius and Hays.)
- Hays, Louis H. and A. R. Curtis, Cleveland, Ohio. Card-printing attachment for marking-machines. No. 1,295,745; Feb. 25; v. 259; p. 732.
- Hays Manufacturing Co. (See Hitchcock, Otto G., assignor.)
- Hays, Patrick H. (See Vincent, Bee E., assignor.)
- Hays, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Seam for sewed articles. No. 1,305,542; June 3; v. 263; p. 59.
- Hayward, Albert W., assignor to D. S. Hayward, Cincinnati, Ohio. Tire-protector device. No. 1,305,101; May 27; v. 262; p. 595.
- Hayward, Clarence B., New Haven, Conn. Indicating-valve. No. 1,294,458; Feb. 18; v. 259; p. 413.



- Hayward Company, The. (See Atkinson, Herbert S., assignor.)
- Hayward, Dora S. (See Hayward, Albert W., assignor.)
- Hayward, Henry S., Jr., Spring Lake, N. J. Reinforced battery-box. No. 1,311,558; July 29; v. 264; p. 785.
- Hazard, Allen E., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for measuring electrical resistance. No. 1,324,818; Dec. 16; v. 269; p. 408.
- Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Air-pump. No. 1,291,504; Jan. 14; v. 258; p. 378.
- Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Automobile-tire pump. No. 1,295,491; Feb. 25; v. 259; p. 673.
- Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Automobile-tire pump. No. 1,311,693; July 29; v. 264; p. 809.
- Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Automobile-driven tire-pump. No. 1,323,053; Nov. 25; v. 268; p. 673.
- Hazaravartian, Garabed, Brooklyn, N. Y. Projecting device. No. 1,311,694; July 29; v. 264; p. 810.
- Hazel-Atlas Glass Company. (See Stenhouse, Thomas, assignor.)
- Hazel, George W., Camden, N. J., assignor, by mesne assignments, to Hazel Safety Nut Company, Philadelphia, Pa. Hand-tool. No. 1,305,899; June 3; v. 263; p. 126.
- Hazel Safety Nut Company. (See Hazel, George W., assignor.)
- Hazelett, Clarence W., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Storage-battery connector. No. 1,303,311; May 13; v. 262; p. 185.
- Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Storage-battery connection. No. 1,316,034; Sept. 16; v. 266; p. 308.
- Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Storage-battery-filling vent. No. 1,316,035; Sept. 16; v. 266; p. 309.
- Hazelett, Clarence W., Lakewood, Ohio, assignor, to National Carbon Company, Inc. Dry cell. No. 1,316,233; Sept. 16; v. 266; p. 346.
- Hazelett, Clarence W., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Casting apparatus. No. 1,318,379; Oct. 14; v. 267; p. 198.
- Hazelett, Clarence W., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Casting apparatus. No. 1,318,380; Oct. 14; v. 267; p. 199.
- Hazeltine, Benjamin P., Wheeling, W. Va., assignor to National Tube Company, Pittsburgh, Pa. Method of and means for preventing oxidation of rolled material. No. 1,295,986; Mar. 4; v. 260; p. 38.
- Hazeltine, Reginald, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Trimming-machine. No. 1,299,335; Apr. 1; v. 261; p. 163.
- Hazelton, Charles N., Morrison, Ill. Rolling-chair. No. 1,322,788; Nov. 25; v. 268; p. 623.
- Hazelton, Fred S., et al. (See Van Meter, John N., assignor.)
- Hazelton, Robert T., Cincinnati, assignor to The Cincinnati Milling Machine Company, Oakley, Ohio. Vertical miller. No. 1,295,746; Feb. 25; v. 259; p. 732.
- Hazelton, Robert T., assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. Machine-tool. No. 1,315,722; Sept. 9; v. 266; p. 236.
- Hazen Manufacturing Company. (See Worden, Frederic E., assignor.)
- Head, Ralph B., Moline, Ill. Sighting device for aeroplanes. No. 1,311,277; July 29; v. 264; p. 732.
- Head, Robert, New York, N. Y., assignor to The Aeolian Company. Making sound-records. No. 1,318,997; Oct. 14; v. 267; p. 315.
- Head, Robert, New York, N. Y., assignor to The Aeolian Company. Sound-record and making same. No. 1,321,912; Nov. 18; v. 268; p. 408.
- Head, Robert, New York, N. Y., assignor to The Aeolian Company. Making phonograph-records. No. 1,326,728; Dec. 30; v. 269; p. 818.
- Head, Robert, New York, N. Y., assignor to The Aeolian Company. Phonograph with extensible horn. No. 1,326,729; Dec. 30; v. 269; p. 818.
- Head, Wrightson & Company. (See Wrightson, Thomas, assignor.)
- Head, Wrightson and Company. (See Wrightson and Ringquist, assignors.)
- Headland, Nestor, Chicago, Ill. Machine for pasting, trimming, and folding wall-paper. No. 1,303,895; May 20; v. 262; p. 330.
- Headrick, James O., Humble, Tex. Break-out pin. No. 1,319,335; Oct. 21; v. 267; p. 406.
- Headrick, James O., J. M. Winfrey, Humble, Tex. Well-boring apparatus. No. 1,314,960; Sept. 2; v. 266; p. 89.
- Headson, Frank A., Milwaukee, Wis. Heat-insulating composition and articles made therefrom. No. 1,307,548; June 24; v. 263; p. 528.
- Headson, Frank A., Milwaukee, Wis. Heat-insulating composition and articles made therefrom. No. 1,307,549; June 24; v. 263; p. 528.
- Heady, William H., et al. (See Evans, Newton, assignor.)
- Heaford, Edwin V., Denver, Colo. Eye-protector. No. 1,310,077; July 15; v. 264; p. 447.
- Heagany, Dennis J., Chicago, Ill. Massage device. No. 1,310,950; July 22; v. 264; p. 638.
- Heald, James N., and A. M. Drake, Worcester, Mass., assignors to Heald Machine Company. Belt-tightener. No. 1,301,937; Apr. 29; v. 261; p. 833.
- Heald, John, assignor to Chatfield and Sharp, Jamestown, N. Y. Range-boiler stand. No. 1,321,305; Nov. 11; v. 268; p. 243.
- Heald Machine Company. (See Heald and Drake, assignor.)
- Healey, Clinton A., Westfield, Mass. Card for animals. No. 1,290,554; Jan. 7; v. 258; p. 130.
- Healey, Patrick J., Jersey City, N. J. Sewer-cleaning device. No. 1,313,378; Aug. 19; v. 265; p. 338.
- Healey, Patrick J., Jersey City, N. J. Cleaning apparatus for catch-basins. No. 1,325,638; Dec. 23; v. 269; p. 577.
- Healey, Patrick J., San Francisco, Cal. Water-tube boiler. No. 1,293,644; Feb. 4; v. 259; p. 155.
- Healy, Daniel L., San Francisco, Cal. Endless-tread tractor. No. 1,295,093; Feb. 18; v. 259; p. 558.
- Healy, James H. (See Healy, John A. and J. H.)
- Healy, John A., Langdon, and J. H. Healy, St. Paul, Minn. Radiator-hanger. No. 1,315,492; Sept. 9; v. 266; p. 196.
- Healy, Joseph A., Saugus, Mass. Garbage-receptacle attachment. No. 1,301,694; Apr. 22; v. 261; p. 755.
- Healy, Maurice F., Watertown, Mass. Weight hoisting and releasing mechanism. No. 1,320,688; Nov. 4; v. 268; p. 61.
- Heaney, John A., Martinez, Calif. Belt-tightener. No. 1,320,044; Oct. 28; v. 267; p. 563.
- Heany, John A., Jersey City, N. J., assignor to Lindsay Auto Parts Company, Indianapolis, Ind. Ignition device for motor-vehicles. No. 1,301,053; Apr. 15; v. 261; p. 594.
- Heany, John A., New Haven, Conn., assignor to Lindsay Auto Parts Company, Indianapolis, Ind. Ignition device for motor-vehicles. No. 1,305,601; June 3; v. 263; p. 72.
- Heap, Arthur C., Woking, and A. B. Field, Marple, England. Acoustically-operated electric-contact-actuating mechanism and system employing the same. No. 1,310,568; July 22; v. 264; p. 568.
- Heap, Jesse J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing-machines. No. 1,308,631; July 1; v. 264; p. 114.
- Heape, Walter, London, and H. B. Grylls, Weybridge, England. Manufacture of carbons for electric-arc lamps. No. 1,302,795; May 6; v. 262; p. 59.
- Heard, Thomas J., Wilson, Kans. Insulator. No. 1,302,796; May 6; v. 262; p. 59.
- Hearing, Samuel D., Zanesville, Ohio. Valve-tool. No. 1,295,159; Feb. 25; v. 259; p. 597.
- Hearn, Elary L., Pueblo, Colo., assignor to The Hearn Toy Company. Toy gun. No. 1,319,392; Oct. 21; v. 267; p. 417.
- Hearn, John F. (See Reynolds and Hearn.)
- Hearn Toy Company, The. (See Hearn, Elary L., assignor.)
- Hearst, William, Spokane, Wash., assignor of one-half to A. W. Wilde, Portland, Oreg. Window attachment. No. 1,321,741; Nov. 11; v. 268; p. 325.
- Heartsill, Isaac N., Austin, Tex. Head or tail light for automobiles. No. 1,305,282; June 3; v. 263; p. 10.
- Hearttgen, John, Allentown, assignor of one-half to E. F. Worman, Copely, Pa. Occupant-protected vehicle. No. 1,304,310; May 20; v. 262; p. 407.
- Heaslet, James G., Detroit, Mich., assignor to The Studebaker Corporation. Controlling device of motor-vehicles. No. 1,318,146; Oct. 7; v. 267; p. 92.
- Heath, Clarence W., and W. P. Conlin, Bellevue borough, Pa. Railway fare-receipt ticket. No. 1,325,941; Dec. 23; v. 269; p. 633.
- Heath, Frank, National City, Cal. Synchronizer. No. 1,292,315; Jan. 21; v. 258; p. 607.
- Heath, Frederick, Tacoma, Wash. Hollow corner-block. No. 1,294,905; Feb. 18; v. 259; p. 516.
- Heath, Frederick, Tacoma, Wash. Reinforced building-wall. No. 1,319,336; Oct. 21; v. 267; p. 406.
- Heath, Harry C., San Francisco, Calif. Lubricator. No. 1,324,396; Dec. 9; v. 269; p. 266.
- Heath, Howard T., Elgin, Ill. Float-valve mechanism. No. 1,295,987; Mar. 4; v. 260; p. 38.
- Heath, John S. (See Scheffler, Joseph, assignor.)
- Heath, Samuel, Philadelphia, Pa. Ash-sifter. No. 1,294,262; Feb. 11; v. 259; p. 331.
- Heath, Samuel, Roxborough, Pa. Combustible smokeless gas and air chamber for gas-burners. No. 1,295,313; Feb. 25; v. 259; p. 632.
- Heath, Samuel, Roxborough, Pa. Lamp-canopy. No. 1,306,062; June 10; v. 263; p. 187.
- Heath, Samuel, Roxborough, Pa. Air-distributor. No. 1,310,991; July 22; v. 264; p. 646.
- Heath, Samuel, Roxborough, Pa. Reflector for gas-fixtures. No. 1,317,494; Sept. 30; v. 266; p. 668.
- Heath, Spencer, Baltimore, Md. Propeller-forming machine. No. 1,325,671; Dec. 23; v. 269; p. 584.
- Heath, Spencer, Baltimore, Md. Propeller and making same. No. 1,325,672; Dec. 23; v. 269; p. 584.
- Heath, William R. (See Tallmadge, Charles H., assignor.)



## Alphabetical list of patentees—Continued.

- Heatherbell, Gordon G. (See Heatherbell, Percy E. and G. G.)
- Heatherbell, Percy E., Deep Bay, and G. G., Port Cygnet, Tasmania, Australia. Air-induction apparatus. No. 1,323,981; Dec. 2; v. 269; p. 142.
- Heaton, Alexander B., Casper, Wyo. Fishing-tool. No. 1,295,492; Feb. 25; v. 259; p. 674.
- Heaton, Herman C. (See Sargent and Heaton.)
- Heaton Peninsular Button Fastener Company. (See Perkins, George W., assignor.)
- Hebbard, Charles C., Joplin, Mo. Ore-concentrator. No. 1,323,470; Dec. 2; v. 269; p. 46.
- Hebbard, Charles C., Joplin, Mo. Concentrating-table. No. 1,324,250; Dec. 9; v. 269; p. 238.
- Heber, Benjamin E., San Francisco, Cal. Street-indicator. No. 1,295,493; Feb. 25; v. 259; p. 674.
- Heber, James E., assignor to Trussed Concrete Steel Company of Canada, Limited, Walkerville, Ontario, Canada. Reinforced-concrete girder. No. 1,318,870; Oct. 14; v. 267; p. 292.
- Hebern, William. (See Rial and Hebern.)
- Hebert, Ubald, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for automatic looms. No. 1,302,039; Apr. 29; v. 261; p. 852.
- Hebert, Ubald, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Filling clamping and parting means for looms. No. 1,317,787; Oct. 7; v. 267; p. 24.
- Hebert, Ulric, Edmonton, Alberta, Canada. Swing. No. 1,319,582; Oct. 21; v. 267; p. 454.
- Hébrard, Henri F., Paris, France. Device for transmitting motion to gyroscopic bodies. No. 1,311,509; July 29; v. 264; p. 776.
- Hechenbleikner, Ingenuin, assignor to Chemical Construction Company, Charlotte, N. C. Recovery process for waste gases. No. 1,297,464; Mar. 18; v. 260; p. 432.
- Hechenbleikner, Ingenuin, Charlotte, N. C., assignor to Southern Electro-Chemical Company, New York, N. Y. Electric-furnace apparatus for ores or minerals. No. 1,299,336; Apr. 1; v. 261; p. 163.
- Hechenbleikner, Ingenuin, Charlotte, N. C., assignor to Southern Electro-Chemical Company, New York, N. Y. Treating gases. No. 1,299,337; Apr. 1; v. 261; p. 164.
- Hechenbleikner, Ingenuin, assignor to Chemical Construction Company, Charlotte, N. C. Exhauster. No. 1,308,756; July 8; v. 264; p. 166.
- Hechenbleikner, Ingenuin, assignor to Chemical Construction Company, Charlotte, N. C. Electric furnace. No. 1,310,079; July 15; v. 264; p. 447.
- Hechenbleikner, Ingenuin, assignor to Chemical Construction Company, Charlotte, N. C. Cooling and oxidation apparatus. No. 1,311,395; July 29; v. 264; p. 754.
- Hechenbleikner, Ingenuin, assignor to Chemical Construction Company, Charlotte, N. C. Making phosphoric acid, &c. No. 1,313,379; Aug. 19; v. 265; p. 339.
- Hechenbleikner, Ingenuin, assignor to Chemical Construction Company, Charlotte, N. C. Absorption or concentrating plant. No. 1,314,802; Sept. 2; v. 266; p. 61.
- Hechenbleikner, Ingenuin, and P. S. Gilchrist, assignors to Chemical Construction Co., Charlotte, N. C. Distilling apparatus. No. 1,310,078; July 15; v. 264; p. 447.
- Heckhovech, Paul, Burnham, Pa. Brake for sleds. No. 1,299,338; Apr. 1; v. 261; p. 164.
- Hecht, John S., and A. T. Dowdell, St. Albans, England. Manufacture of obturator-rings. No. 1,303,896; May 20; v. 262; p. 330.
- Hecht, Joseph L., assignor to French & Hecht, Davenport, Iowa. Demountable rim for wheels. No. 1,299,463; Apr. 8; v. 261; p. 221.
- Hecht, Joseph L., assignor to French & Hecht, Davenport, Iowa. Metal wheel. No. 1,299,464; Apr. 8; v. 261; p. 221.
- Hecht, Joseph L., assignor to French & Hecht, Davenport, Iowa. Traction-wheel. No. 1,312,176; Aug. 5; v. 265; p. 61.
- Hecht, Louis E. (See Hilton, George A., assignor.)
- Heck, Augustus, assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,295,988; Mar. 4; v. 260; p. 38.
- Heck, Charles M., Raleigh, N. C. Incubator. No. 1,314,473; Aug. 26; v. 265; p. 580.
- Heckerman, Gerhart, San Diego, Calif. Wave-motor. No. 1,303,897; May 20; v. 262; p. 331.
- Heckethorn, William N., Fairfield, Iowa. Railway-signal. No. 1,320,391; Nov. 4; v. 268; p. 7.
- Hecklinger, George B., assignor of one-half to L. D. Curtis, Chicago, Ill. Reinforcement for the edges of cards and the like. No. 1,325,470; Dec. 16; v. 269; p. 528.
- Heckman, James, Clarendon, Tex. Pipe-puller. No. 1,317,291; Sept. 30; v. 266; p. 629.
- Heckmann, Oscar L., St. Charles, Mo. File handle or holder. No. 1,305,283; June 3; v. 263; p. 10.
- Heco Envelope Company. (See Brown, Claude F., assignor.)
- Hecox, George, Springfield Center, N. Y. Shovel-handle. No. 1,291,505; Jan. 14; v. 258; p. 379.
- Hecox, Seward W., Zeeland, Mich. Cabinet-phonograph. No. 1,324,311; Dec. 9; v. 269; p. 250.
- Hedberg, Carl W. J., New Britain, Conn., assignor to Research Corporation, New York, N. Y. Electric separator. No. 1,297,159; Mar. 11; v. 260; p. 338.
- Hedberg, Carl W. J., New Britain, Conn., assignor to Research Corporation, New York, N. Y. Apparatus for electrical treatment of gases. No. 1,319,706; Oct. 28; v. 267; p. 499.
- Hedberg, Georg J., assignor of one-half to A. Lindahl, Stockholm, Sweden. Escapement. No. 1,326,499; Dec. 30; v. 269; p. 775.
- Hedberg, Peter L., Chicago, Ill. Window ventilator and screen. No. 1,304,767; May 27; v. 262; p. 533.
- Heden, Gustaf, Brooklyn, N. Y. Flying-machine. No. 1,307,047; June 17; v. 263; p. 404.
- Hedenskoog, Ernest, Muskegon, Mich. Ball-rack. No. 1,324,116; Dec. 9; v. 269; p. 212.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Brake-beam. No. 1,301,433; Apr. 22; v. 261; p. 705.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Brake-beam spring-clip. No. 1,315,493; Sept. 9; v. 266; p. 196.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Brake-beam-fulcrum connection. No. 1,323,269; Dec. 2; v. 269; p. 9.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Brake-head and hanger connection. No. 1,323,270; Dec. 2; v. 269; p. 9.
- Hedgcock, William C., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. No. 1,325,516; Dec. 23; v. 269; p. 555.
- Hedges, Abraham D., Long Beach, Calif. Signaling device. No. 1,316,481; Sept. 16; v. 266; p. 393.
- Hedges, Abraham D., Long Beach, Calif. Automobile-top. No. 1,321,913; Nov. 18; v. 268; p. 408.
- Hedges, Abraham D., Long Beach, Calif. Automobile-top. No. 1,321,914; Nov. 18; v. 268; p. 408.
- Hedges, Geo. T. (See Evans, Cleye E., assignor.)
- Hedges, George L., Los Angeles, Cal., assignor, by mesne assignments, to The P. A. Geier Co., Cleveland, Ohio. Mechanism for washing-machines. No. 1,295,029; Feb. 18; v. 259; p. 543.
- Hedges, Perley L., Mattoon, Ill. Tire. No. 1,295,494; Feb. 25; v. 259; p. 674.
- Hedglin, Daniel A., San Francisco, Cal. Railway-spike driver. No. 1,294,100; Feb. 11; v. 259; p. 293.
- Hedly, Arthur H., Chicago, Ill., assignor to The Ludlow Typograph Company, Cleveland, Ohio. Making typograph-matrices. No. 1,308,067; July 1; v. 264; p. 11.
- Hedly, Arthur H., assignor to The Ludlow Typograph Company, Chicago, Ill. Punch for making typograph-matrices and the like. No. 1,318,381; Oct. 14; v. 267; p. 199.
- Hedrich, William, and W. Stock, Trochu, Alberta, Canada. Poison-containing trap. No. 1,302,160; Apr. 29; v. 261; p. 874.
- Hedrich, William, and W. Stock, Trochu, Alberta, Canada. Poison-containing trap. (Reissue.) No. 14,782; Dec. 30; v. 269; p. 851.
- Hedrick, William K., Pasadena, Calif. Hydraulic sprayer. No. 1,321,037; Nov. 4; v. 268; p. 128.
- Hedrick, William M., and E. G. Ervin, Fort Logan, Colo. Exhibiting device for certificates, pictures, and the like. No. 1,323,982; Dec. 2; v. 269; p. 143.
- Hedstrom, Bernard. (See Wilkinson and Hedstrom.)
- Hedstrom, Gus, assignor to Cameron Can Machinery Co., Chicago, Ill. Blank-feeding mechanism. No. 1,325,720; Dec. 23; v. 269; p. 593.
- Hedstrom, Peter, Minneapolis, Minn. Autotruck-dump. No. 1,302,797; May 6; v. 262; p. 60.
- Heegstra, H. Walton, et al. (See Gill, Charles H., assignor.)
- Heeley, George, assignor to Compagnie Pour La Fabrication Des Compteurs et Matériel d'Usines à Gaz, Paris, France. Gas-tight joint. No. 1,291,869; Jan. 21; v. 258; p. 497.
- Heeren, Reinhard L., Brooklyn, N. Y. Detachable reversible cuff. No. 1,314,326; Aug. 26; v. 265; p. 552.
- Heffelfinger, Charles S., Lebanon, Pa. Fuel-feeding device. No. 1,304,973; May 27; v. 262; p. 571.
- Heffelfinger, Glen B. (See McClenathan and Heffelfinger.)
- Heffernan, Edward, Sydney, New South Wales, Australia. Holder for hinge-hung doors. No. 1,295,747; Feb. 25; v. 259; p. 733.
- Heffernan, Jeremiah W. (See Ormiston, John A., assignor.)
- Heffner, Benjamin F., et al. (See Whitcomb, James, assignor.)
- Heffron, Isaac, Galveston, Tex. Cargo-sling. No. 1,314,397; Aug. 26; v. 265; p. 566.
- Hegardt, Axel E., Philadelphia, Pa. Flexible rule. No. 1,313,482; Aug. 19; v. 265; p. 358.
- Hegelman, Theodore, Oak Park, Ill. Ball-bearing. No. 1,301,843; Apr. 29; v. 261; p. 815.
- Hegelman, Theodore, Oak Park, Ill. Roller-bearing for shafts. No. 1,319,866; Oct. 28; v. 267; p. 530.
- Hegeman, Benjamin A., Jr. (See Hillman, Edward D., assignor.)
- Hegeman, Henry F. (See Wubbens, Hupp, and Hegeman.)



## Alphabetical list of patentees—Continued.

- Hegerhorst, John, Chicago, Ill., assignor of one-half to J. S. Bricknell, Hammond, Ind. Satchel-handle. No. 1,317,922; Oct. 7; v. 267; p. 50.
- Hegerhorst, John, assignor of one-half to J. S. Bricknell, Hammond, Ind. Satchel-handle. No. 1,317,923; Oct. 7; v. 267; p. 50.
- Heggen, John, Seattle, Wash. Planer and cutter head. No. 1,305,650; June 3; v. 263; p. 80.
- Heggie, Cornelius. (See Yates and Heggie.)
- Heginbottom, Walter G. (See Richard and Heginbottom.)
- Hegland, William, Plentywood, Mont. Stamp and envelop moistener. No. 1,315,305; Sept. 9; v. 266; p. 162.
- Hegner, Lawrence G., Man, W. Va. Clinical thermometer. No. 1,299,339; Apr. 1; v. 261; p. 164.
- Hehman, Gerard F. (See Thieh and Hehman.)
- Heidbrink, Jay A., Minneapolis, Minn. Anesthetic apparatus. No. 1,309,686; July 15; v. 264; p. 376.
- Heiddeston, William E. (See Kellum and Heiddeston.)
- Heidelberg, Paul, Paris, France. Lamp. No. 1,321,915; Nov. 18; v. 268; p. 408.
- Heidelberger, Michael. (See Jacobs, Brown, Heidelberger, and Pearce.)
- Heidell, Irving. (See Henriot, Maurice, assignor.)
- Heidenreich, Erynd L., Kansas City, Mo. Piping system for concrete ships and tankers. No. 1,302,547; May 6; v. 262; p. 13.
- Heider, Henry J., assignor to Heider Mfg. Company, Carroll, Iowa. Axle-fastening. No. 1,292,771; Jan. 28; v. 258; p. 737.
- Heider Mfg. Company. (See Heider, Henry J., assignor.)
- Heidman, George, et al. (See Blood, Burr B., assignor.)
- Heidtmann, Ernst A., Richmond Hill, N. Y. Fishing-line support. No. 1,304,876; May 27; v. 262; p. 553.
- Heier, Sigurd, Rjukan, Norway, assignor to Norsk Hydro-elektrisk Kvaestofaktieselskab, Christiania, Norway. Electrode. No. 1,317,576; Sept. 30; v. 266; p. 684.
- Heig, Charles M., Omaha, Nebr. Flying-machine. No. 1,310,619; July 22; v. 264; p. 577.
- Heilbrun, Henry E., Dubois, Pa. Rat-trap. No. 1,315,833; Sept. 9; v. 266; p. 257.
- Heiligenstein, Gus, Altamont, Ill. Railway-crossing signal. No. 1,312,630; Aug. 12; v. 265; p. 178.
- Heilner, Genevieve, New York, N. Y. Corset. No. 1,311,444; July 29; v. 264; p. 763.
- Heilner, Genevieve, New York, N. Y. Corset. No. 1,317,623; Sept. 30; v. 266; p. 693.
- Heilner, Julius E., New York, N. Y. Corset. No. 1,293,427; Feb. 4; v. 259; p. 105.
- Heimann, Leon, New York, N. Y., assignor, by mesne assignments, to Live Leather Belt Co., Inc. Belt and belting material. No. 1,319,337; Oct. 21; v. 267; p. 406.
- Heimann, Morris A., St. Louis, Mo. Necktie-display holder. No. 1,291,870; Jan. 21; v. 258; p. 497.
- Heimbecker, Roland. (See de Laval and Heimbecker.)
- Heimerdinger, Harry M., Blackfoot, Idaho. Food product. No. 1,295,160; Feb. 25; v. 259; p. 597.
- Heimerdinger, Harry M., Blackfoot, Idaho. Apparatus for producing food product. No. 1,295,161; Feb. 25; v. 259; p. 598.
- Heimerdinger, Harry M., Blackfoot, Idaho. Producing food product. No. 1,295,162; Feb. 25; v. 259; p. 598.
- Heimerdinger, William G., Louisville, Ky. Attachment for shears. No. 1,321,825; Nov. 18; v. 268; p. 391.
- Hein, Adam, Liberty, Ind. Fence-anchor. No. 1,321,824; Nov. 18; v. 268; p. 391.
- Hein, George N. (See Platt, Hein, and Impey.)
- Hein, Paul P., New York, N. Y. Safety gas-tip. No. 1,295,495; Feb. 25; v. 259; p. 674.
- Hein, William, Ansley, Nebr. Transmission mechanism. No. 1,291,871; Jan. 21; v. 258; p. 497.
- Heindel, David H., Huntington, Ind. Elevator. No. 1,318,556; Oct. 14; v. 267; p. 232.
- Heine, John, Jr., Leichhardt, near Sydney, New South Wales, Australia. Machine for soldering seams of can-bodies. No. 1,318,871; Oct. 14; v. 267; p. 292.
- Heine Safety Boiler Company. (See Hinman, John H., assignor.)
- Heine Safety Boiler Company. (See Meier, Edward C., assignor.)
- Heineke, Carl. (See Heineke, Gustave A. and C.)
- Heineke, Gustave A. and C., Chicago, Ill. Cleaning furs. No. 1,294,459; Feb. 18; v. 259; p. 414.
- Heineke, Gustave A. and C., Chicago, Ill. Cleaning furs. No. 1,317,130; Sept. 23; v. 266; p. 563.
- Heinel, Harry A. (See Pierce and Heinel.)
- Heinemann, Ernest, Alma, Wis. Automatic latch for doors. No. 1,301,260; Apr. 22; v. 261; p. 672.
- Heinkel, Christian F., Cleveland, Ohio. Cotter-pin. No. 1,300,609; Apr. 15; v. 261; p. 498.
- Heinkel, George W., Sandusky, Ohio. Spindle-head. No. 1,326,863; Dec. 30; v. 269; p. 844.
- Heinlein, Charles, Sr., Cincinnati, Ohio. Wardrobe display-trunk. No. 1,322,901; Nov. 25; v. 268; p. 644.
- Heinonen, Gus, Worcester, Mass. Filing-machine. No. 1,295,496; Feb. 25; v. 259; p. 674.
- Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Time-controlled mechanism. No. 1,299,340; Apr. 1; v. 261; p. 164.
- Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Reflector. No. 1,315,494; Sept. 9; v. 266; p. 197.
- Heinrichs, Cleveland J., assignor of one-half to F. W. Arnold, St. Louis, Mo. Lock for motor-vehicles and the like. No. 1,313,891; Aug. 26; v. 265; p. 468.
- Heins, Ernest F., New York, N. Y. Means for preventing the theft of motor-vehicles. No. 1,309,197; July 8; v. 264; p. 247.
- Heins, Otto, C. M. Wild, Southwick, and W. E. Schwarzmunn, Springfield, Mass., assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electrical condenser and mounting therefor. No. 1,312,983; Aug. 12; v. 265; p. 247.
- Heinss, Christian F., Point Pleasant, W. Va. Motor-plow. No. 1,302,657; May 6; v. 262; p. 33.
- Heintz, Otto L. (See Gomes, Heintz, and Messersmith.)
- Heintz, Otto L., Buffalo, N. Y. Vehicle attachment for motor and other cycles. No. 1,311,816; July 29; v. 264; p. 832.
- Heinz, Adam. (See Rose and Heinz.)
- Heinz, Edward N., Chicago, Ill. Computing-calendar. No. 1,294,460; Feb. 18; v. 259; p. 414.
- Heinz, Nicholas L., La Salle, Ill. Niter-decomposing apparatus. No. 1,315,834; Sept. 9; v. 266; p. 257.
- Heinze, Edward L., Jr., Ashland, Pa. Pipe-hanger. No. 1,291,872; Jan. 21; v. 258; p. 497.
- Heinze, John O., Springfield, Ohio, assignor of one-half to A. F. Knobloch, Indianapolis, Ind. Turbine. No. 1,316,234; Sept. 16; v. 266; p. 346.
- Heinze, John O., Boyne City, Mich. Tractor. No. 1,318,557; Oct. 14; v. 267; p. 232.
- Heinzelman, Reginald, assignor to Koupet Auto Top Company, Belleville, Ill. Closed top for vehicles. No. 1,298,942; Apr. 1; v. 261; p. 75.
- Heiron and Smith Limited. (See Pogonowski, Alexander, assignor.)
- Heiser, Charles J., assignor to Pacific Manufacturing & Electric Company, Los Angeles, Calif. Filament type of heating elements. No. 1,323,220; Nov. 25; v. 268; p. 706.
- Heiser, Charles J., assignor to Pacific Manufacturing and Electric Company, Los Angeles, Calif. Protective device for electrically-heated utensils. No. 1,323,471; Dec. 2; v. 269; p. 47.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency-carrier telephony. No. 1,313,483; Aug. 19; v. 265; p. 358.
- Heisler, Aaron, Pittsburgh, Pa. Safety appliance for cranes. No. 1,315,495; Sept. 9; v. 266; p. 197.
- Heisler, Charles L., Schenectady, N. Y. Nut-slotting machine. No. 1,321,370; Nov. 11; v. 268; p. 255.
- Heithaus, Joseph A., Norwood, Ohio. Display-card support. No. 1,303,306; May 13; v. 262; p. 184.
- Heitler, George, New York, N. Y. Antislipping device. No. 1,319,074; Oct. 21; v. 267; p. 356.
- Heitler, Kurt, New York, N. Y. Jar-lifter. No. 1,296,889; Mar. 4; v. 260; p. 130.
- Heitman, Edwin J., assignor to The Brown Instrument Company, Philadelphia, Pa. Electric meter. No. 1,301,434; Apr. 22; v. 261; p. 706.
- Heitman, Ernest, West Hoboken, N. J. Washline-support. No. 1,312,541; Aug. 12; v. 265; p. 159.
- Heitman, John, assignor of one-half to R. Lomen, Nome, Alaska. Graphophone and disk record holder. No. 1,297,160; Mar. 11; v. 260; p. 339.
- Heitmann, John H. (See Rawdon and Heitmann.)
- Heitz, John J., Chicago, Ill. Therapeutic lamp. No. 1,318,751; Oct. 14; v. 267; p. 269.
- Heitzman, Anthony L., La Grande, Oreg. Dirigible autolamp. No. 1,294,906; Feb. 18; v. 259; p. 516.
- Heizer, Levi L., and J. H. Will, Nichols, Iowa. Bundle-carrier for grain-binders. No. 1,314,591; Sept. 2; v. 266; p. 22.
- Helander, Ernst G., Youngstown, Ohio. Condenser. No. 1,319,647; Oct. 21; v. 267; p. 466.
- Helbig, Max, Fredriksstad, Norway. Extraction of sulfur from metal sulfides. No. 1,315,496; Sept. 9; v. 266; p. 197.
- Held, Louis, San Francisco, Cal. Attachment for cooking utensils. No. 1,290,186; Jan. 7; v. 258; p. 42.
- Held, Max O., North Milwaukee, Wis. Casting-machine. No. 1,318,558; Oct. 14; v. 267; p. 233.
- Helderman, Charles F., assignor of one-third to R. J. Moore and one-third to D. F. King, Jr., Leaksville, N. C. Stop-motion for looms. No. 1,326,262; Dec. 30; v. 269; p. 731.
- Heldrich, Andrew, Philadelphia, Pa. Shock-absorber. No. 1,304,311; May 20; v. 262; p. 407.
- Helen P. Singer Co. (See Mackeown, Ida C., assignor.)
- Helfenbein, Harry, Cleveland, Ohio. Signal device for automobiles or other vehicles. No. 1,298,205; Mar. 25; v. 260; p. 616.
- Helfinger, Charles F., Durham, Wash. Coal-drill. No. 1,311,396; July 29; v. 264; p. 755.
- Helfman, Harry, et al. (See Goodrich, William J., assignor.)
- Helfrich, Elmer E., Phoenix, Ariz. Music-leaf turner. No. 1,306,482; June 10; v. 263; p. 267.
- Helgeson, Thomas O., Minneapolis, Minn. Grain-separator. No. 1,299,341; Apr. 1; v. 261; p. 165.
- Helguera, Ignacio, Trenton, N. J. Shaftless propeller. No. 1,326,730; Dec. 30; v. 269; p. 818.



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- Hellawell, Thorp, assignor to Hellawell Warping & Winding Company, Paterson, N. J. Feed-carriage for warping-frames. No. 1,321,631; Nov. 11; v. 268; p. 304.
- Hellawell Warping & Winding Company. (See Hellawell, Thorp, assignor.)
- Hellberg, Helge. (See Redpath and Hellberg.)
- Heller, Eugene H., and E. Reich, assignors to The Hill Pump Valve Company, Chicago, Ill. Heater. No. 1,301,261; Apr. 22; v. 261; p. 672.
- Heller, Frank J. (See Webner and Heller.)
- Heller, Henry, Winona, Minn. Anti-skid device. No. 1,312,729; Aug. 12; v. 265; p. 196.
- Heller, Herman S., and J. Jorgenson, San Francisco, Cal.; said Jorgenson assignor to said Heller. Tailpiece for stringed instruments. No. 1,296,183; Mar. 4; v. 260; p. 85.
- Heller, Lydia C., Chambersburg, Pa. Button-fastener. No. 1,301,435; Apr. 22; v. 261; p. 706.
- Heller, Samuel, New York, N. Y. Brilliant. No. 1,291,506; Jan. 14; v. 258; p. 379.
- Heller, Samuel, New York, N. Y. Jewelry-clasp. No. 1,314,803; Sept. 2; v. 266; p. 61.
- Helliwell, John O., Pasadena, Calif. Reflector. No. 1,318,205; Oct. 7; v. 267; p. 104.
- Hellmund, Rudolf E. (See Eaton and Hellmund.)
- Hellmund, Rudolf E. (See Starker and Hellmund.)
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,291,507; Jan. 14; v. 258; p. 379.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,292,602; Jan. 28; v. 258; p. 698.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Phase-converting system. No. 1,296,287; Mar. 4; v. 260; p. 107.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,298,704; Apr. 1; v. 261; p. 19.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Armature-winding. No. 1,298,705; Apr. 1; v. 261; p. 19.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,298,706; Apr. 1; v. 261; p. 20.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical apparatus. No. 1,298,707; Apr. 1; v. 261; p. 20.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,300,387; Apr. 15; v. 261; p. 452.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,300,388; Apr. 15; v. 261; p. 452.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,301,845; Apr. 29; v. 261; p. 815.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,302,040; Apr. 29; v. 261; p. 853.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,303,307; May 13; v. 262; p. 185.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,303,308; May 13; v. 262; p. 185.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,303,309; May 13; v. 262; p. 185.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,303,310; May 13; v. 262; p. 185.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,306,539; June 10; v. 263; p. 277.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,308,068; July 1; v. 264; p. 11.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,311,510; July 29; v. 264; p. 776.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,311,511; July 29; v. 264; p. 776.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,311,512; July 29; v. 264; p. 776.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Field-controlling means for dynamo-electric machines. No. 1,315,957; Sept. 16; v. 266; p. 295.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,315,958; Sept. 16; v. 266; p. 295.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,315,959; Sept. 16; v. 266; p. 295.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,317,292; Sept. 30; v. 266; p. 629.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Phase-converting system. No. 1,318,752; Oct. 14; v. 267; p. 267.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,320,047; Oct. 28; v. 267; p. 564.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of alternating-current recuperative control. No. 1,320,048; Oct. 28; v. 267; p. 564.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,320,049; Oct. 28; v. 267; p. 564.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,320,050; Oct. 28; v. 267; p. 564.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,321,523; Nov. 11; v. 268; p. 283.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,326,340; Dec. 30; v. 269; p. 744.
- Hellmund, Rudolf E., Pittsburgh, and J. V. Dobson, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,318,756; Oct. 14; v. 267; p. 270.
- Hellmund, Rudolf E., Pittsburgh, and H. T. Morris, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,311,859; July 29; v. 264; p. 840.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,291,508; Jan. 14; v. 258; p. 379.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator-cylinder for dynamo-electric machines. No. 1,293,770; Feb. 11; v. 259; p. 216.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,295,894; Mar. 4; v. 260; p. 17.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive. No. 1,300,389; Apr. 15; v. 261; p. 452.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,302,041; Apr. 29; v. 261; p. 853.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,308,069; July 1; v. 264; p. 11.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,308,070; July 1; v. 264; p. 11.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,309,733; July 15; v. 264; p. 384.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Field-control system for dynamo-electric machines. No. 1,311,513; July 29; v. 264; p. 776.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,311,514; July 29; v. 264; p. 777.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,312,785; Aug. 12; v. 265; p. 207.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,312,786; Aug. 12; v. 265; p. 208.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,314,517; Sept. 2; v. 266; p. 8.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,317,293; Sept. 30; v. 266; p. 629.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,318,753; Oct. 14; v. 267; p. 269.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,318,754; Oct. 14; v. 267; p. 269.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,318,755; Oct. 14; v. 267; p. 270.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,320,051; Oct. 28; v. 267; p. 565.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,320,052; Oct. 28; v. 267; p. 565.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,320,053; Oct. 28; v. 267; p. 565.
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- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,320,055; Oct. 28; v. 267; p. 565.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,320,057; Oct. 28; v. 267; p. 566.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,320,058; Oct. 23; v. 267; p. 566.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,321,524; Nov. 11; v. 268; p. 284.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-converting system with inherent balancing means. No. 1,323,271; Dec. 2; v. 269; p. 9.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,326,341; Dec. 30; v. 269; p. 744.
- Hellmund, Rudolf E., Pittsburgh, and R. E. Ferris, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,298,943; Apr. 1; v. 261; p. 75.
- Hellmund, Rudolf E., Pittsburgh, and R. E. Ferris, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,301,844; Apr. 29; v. 261; p. 815.
- Hellmund, Rudolf E., and R. E. Ferris, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,323,272; Dec. 2; v. 269; p. 9.
- Hellmund, Rudolf E., Swissvale, and S. G. Nottage, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Coil-retaining device for dynamo-electric machines. No. 1,320,056; Oct. 28; v. 267; p. 566.
- Hellmund, Rudolf E., Swissvale, and C. W. Starker, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,305,102; May 27; v. 262; p. 595.
- Hellstrom, Frank O., Bismarck, N. D. Building-block mold. No. 1,312,631; Aug. 12; v. 265; p. 178.
- Hellstrom, Oscar B., Neutral Bay, near Sydney, New South Wales, Australia. Trousers-stretching attachment to chairs. No. 1,308,755; July 8; v. 264; p. 165.
- Hellweg, Henry, Milwaukee, Wis. Carbureting apparatus. No. 1,314,872; Sept. 2; v. 266; p. 74.
- Hellweg, Henry, assignor of one-half to L. Schlesinger, Milwaukee, Wis. Trunk-fastening. No. 1,313,687; Aug. 19; v. 265; p. 396.
- Hellweg, Henry, assignor of one-half to L. Schlesinger, Milwaukee, Wis. Piston. No. 1,321,525; Nov. 11; v. 268; p. 284.
- Helm, Clyde D., assignor to Oil Mill Machinery & Manufacturing Co., Fort Worth, Tex. Saw-gummer. No. 1,313,238; Aug. 12; v. 265; p. 297.
- Helm, Clyde D., assignor to Oil Mill Machinery & Manufacturing Co., Fort Worth, Tex. Automatic continuous hydraulic oil-press. No. 1,316,036; Sept. 16; v. 266; p. 309.
- Helm, John, St. Louis, Mo. Evaporator. No. 1,311,890; Aug. 5; v. 265; p. 7.
- Helman, Calvin C., Cleveland, and C. E. Beard, Columbiana, Ohio. Bumper. No. 1,290,187; Jan. 7; v. 258; p. 42.
- Helman, John A. (See Houston and Helman.)
- Helmer, Nicolas A., Cincinnati, Ohio. Separating device. No. 1,304,681; May 27; v. 262; p. 517.
- Helmick, Frank C., Philadelphia, Pa. Suction cleaning device. No. 1,303,059; May 6; v. 262; p. 110.
- Helmick Foundry Machine Company. (See Helmick, Frederic, assignor.)
- Helmick, Frederic, assignor to Helmick Foundry Machine Company, Fairmont, W. Va. Car-wheel-bearing retainer. No. 1,325,153; Dec. 16; v. 269; p. 470.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,302,161; Apr. 29; v. 261; p. 875.
- Helms, Arthur J., Portland, Ore. Miter-tool. No. 1,295,748; Feb. 25; v. 259; p. 733.
- Helms, Arthur, assignor, by direct and mesne assignments, to Inventors Development Company, Portland, Ore. Miter-box. No. 1,290,188; Jan. 7; v. 258; p. 42.
- Helps, George, Nuneaton, England. Bunsen burner. No. 1,320,004; Oct. 28; v. 267; p. 556.
- Helsel, Reuben H., Long Island City, assignor, by mesne assignments, to The Automatic Ticket Selling and Cash Register Company, New York, N. Y. Coin-controlled ticket-machine. No. 1,304,974; May 27; v. 262; p. 571.
- Helsel, Reuben H., Long Island City, assignor, by mesne assignments, to The Automatic Ticket Selling and Cash Register Company, New York, N. Y. Ticket-dispensing machine. No. 1,304,975; May 27; v. 262; p. 571.
- Helsel, Reuben H., Long Island City, assignor, by mesne assignments, to The Automatic Ticket Selling and Cash Register Company, New York, N. Y. Ticket-issuing mechanism. No. 1,304,976; May 27; v. 262; p. 572.
- Helsel, Reuben H., Long Island City, assignor, by mesne assignments, to The Automatic Ticket Selling and Cash Register Company, New York, N. Y. Ticket-issuing machine. No. 1,304,977; May 27; v. 262; p. 572.
- Helsley, Charles H., Rogerson, Idaho. Brace for radius-rods. No. 1,315,552; Sept. 9; v. 266; p. 206.
- Heltzel, John N., assignor to The Heltzel Steel Form & Iron Co., Warren, Ohio. Car-unloading chute. No. 1,308,950; July 8; v. 264; p. 201.
- Heltzel, Joseph W., Warren, Ohio. Welding-clamp. No. 1,309,067; July 8; v. 264; p. 224.
- Heltzel, Joseph W., Warren, Ohio. Concrete-form. No. 1,309,068; July 8; v. 264; p. 224.
- Heltzel Steel Form & Iron Co., The. (See Heltzel, John N., assignor.)
- Hem, Halvor O., Kansas City, Mo., assignor to Toledo Scale Company, Jersey City, N. J. Automatic weighing-scale. No. 1,318,559; Oct. 14; v. 267; p. 233.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Automatic weighing-scale. No. 1,324,151; Dec. 9; v. 269; p. 219.
- Hemen, Catherine M., et al. (See Smith, John F., assignor.)
- Hemenway, John F., New York, N. Y. Pressure-release for clothes-wringers. No. 1,322,437; Nov. 18; v. 268; p. 506.
- Hemfing, John, Sr., New Germany, Minn. Wrecking-tool. No. 1,309,734; July 15; v. 264; p. 384.
- Heminger, Isaac N., Findlay, Ohio. Dross-mold. No. 1,306,761; June 17; v. 263; p. 351.
- Hemingway, Francis L., Bridgeport, Conn. Curtain-fixture. No. 1,323,692; Dec. 2; v. 269; p. 87.
- Hemje, John, Hildreth, Nebr. Fender-regulator for cultivators. No. 1,325,471; Dec. 16; v. 269; p. 528.
- Hemleb, Martin. (See Dosch and Hemleb.)
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Cover-plate for sewing-machines. No. 1,323,363; Dec. 2; v. 269; p. 27.
- Hemmer, Albert. (See Hemmer, Frederick L., assignor.)
- Hemmer, Frederick L., assignor of one-third to A. Hemmer, Lincoln, N. J. Folding table. No. 1,302,042; Apr. 29; v. 261; p. 853.
- Hemmerly, Kenneth R., South Bethlehem, Pa. Supporting structure. No. 1,308,419; July 1; v. 264; p. 75.
- Hemming, Otto L., New Haven, Conn. Pocket-cutlery. No. 1,298,944; Apr. 1; v. 261; p. 75.
- Hemming, Otto L., New Haven, Conn. Knife-blade-hardening device. No. 1,303,200; May 6; v. 262; p. 137.
- Hemp, Joseph L., St. Louis, Mo. Stovepipe. No. 1,313,633; Aug. 19; v. 265; p. 387.
- Hempel, Carl E., Pasadena, Calif. Twine-cutter. No. 1,324,672; Dec. 9; v. 269; p. 319.
- Hempel, Henry, Gage, Okla., assignor to two-thirds to A. S. Batrick, Kansas City, Mo. Cone-waffle machine. No. 1,300,390; Apr. 15; v. 261; p. 452.
- Hemphill, Eli M., assignor of one-half to G. W. McCracken, Moundsville, W. Va. Valve-cage-lifting tool. No. 1,314,264; Aug. 26; v. 265; p. 541.
- Hemphill, Henry B., Eldorado, Ill. Petroleum-oil stove. No. 1,307,583; June 24; v. 263; p. 534.
- Hemphill Manufacturing Co. (See Bosworth, George P., assignor.)
- Hemphill Manufacturing Company. (See Fisher, Raymond, assignor.)
- Hemphill Manufacturing Company. (See Lawson, John, assignor.)
- Hempy, George L., Truro township, Franklin county, assignor of one-half to O. H. Mosier, Columbus, Ohio. Traction-wheel. No. 1,309,521; July 8; v. 264; p. 307.
- Hemstreet, George P., Hastings-upon-Hudson, assignor to International Pavement Company, New York, N. Y. Press. No. 1,319,075; Oct. 21; v. 267; p. 356.
- Henba, Joseph, Brooklyn, N. Y. Motor-propelled balloon. No. 1,294,661; Feb. 18; v. 259; p. 460.
- Hench & Dromgold Company. (See Birnstock, William W., assignor.)
- Hench, Martin K., Camden, N. J. Forging-machine. No. 1,290,741; Jan. 7; v. 258; p. 176.
- Hencken, John K., New York, N. Y. Tunneling-machine. No. 1,320,144; Oct. 28; v. 267; p. 582.
- Hendee Manufacturing Company. (See Ellingham, Robert W., assignor.)
- Hendee Manufacturing Company. (See Loose, Theron L., assignor.)
- Henderson, Albert H., Baltimore, Md. Manufacture of steel. No. 1,322,496; Nov. 18; v. 268; p. 518.
- Henderson, Alfred J., Dallas, Tex. Puzzle. No. 1,296,955; Mar. 11; v. 260; p. 294.
- Henderson, Carl, Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Gripper device. No. 1,300,610; Apr. 15; v. 261; p. 498.
- Henderson, Carl, Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-registering mechanism. No. 1,324,251; Dec. 9; v. 269; p. 238.
- Henderson, Carl, Oak Park, and B. D. Stevens, Evanston, assignors to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Gripper-pad adjustment. No. 1,303,793; May 13; v. 262; p. 273.
- Henderson, Charles F., Madisonville, assignor to The Kemper-Thomas Company, Norwood, Ohio. School-bag. No. 1,305,797; June 3; v. 263; p. 107.
- Henderson, Charles F., San Francisco, Calif. Automatic spark-advancing coupling. No. 1,304,768; May 27; v. 262; p. 533.



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- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Automatic regulator. No. 1,293,428; Feb. 4; v. 259; p. 106.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Winding mechanism. No. 1,304,565; May 27; v. 262; p. 495.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,306,897; June 17; v. 263; p. 376.
- Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,313,688; Aug. 19; v. 265; p. 396.
- Henderson, Edward E., Hallowell, Kans. Aeroplane guiding and bomb-dropping appliance. No. 1,294,907; Feb. 18; v. 259; p. 517.
- Henderson, Edward K. (See Ray and Henderson.)
- Henderson, Edwin L., assignor to The Kemper-Thomas Company, Norwood, Ohio. Apron. No. 1,323,859; Dec. 2; v. 269; p. 119.
- Henderson, Elvies, Nashville, Tenn. Rail-joint. No. 1,295,314; Feb. 25; v. 259; p. 632.
- Henderson, Finis J., Moreland, Ark. Door-check. No. 1,296,184; Mar. 4; v. 260; p. 85.
- Henderson, George K. (See Hauser, Richard J., assignor.)
- Henderson, George L., Yellowstone Park, Wyo. Rifle. No. 1,322,438; Nov. 18; v. 268; p. 506.
- Henderson, Harry and A. E. Case, assignors to Delta Electric Company, Marion, Ind. Portable electric lamp. No. 1,295,497; Feb. 25; v. 259; p. 675.
- Henderson, Henry, Halstad, Minn. Distributing-apron for shock-loaders. No. 1,310,016; July 15; v. 264; p. 436.
- Henderson, Isaac, Vancouver, British Columbia, Canada. Sailing-craft. No. 1,303,839; May 13; v. 262; p. 282.
- Henderson, James B., Lee, England. Gyro-compass. No. 1,309,409; July 8; v. 264; p. 287.
- Henderson, James H., et al. (See Routson, Arthur J., assignor.)
- Henderson, Jerry, assignor of two-fifths to J. A. Tomb, Madelia, Minn. Boat-propeller. No. 1,295,315; Feb. 25; v. 259; p. 632.
- Henderson, John, Chicago, Ill. Fuselage. No. 1,313,689; Aug. 19; v. 265; p. 397.
- Henderson, John A., Portland, Ore. Weather-strip. No. 1,317,974; Oct. 7; v. 267; p. 60.
- Henderson, John C., Washington, D. C. Mold. No. 1,321,306; Nov. 11; v. 268; p. 243.
- Henderson, John H., Oakland, Calif. Egg-carrier. No. 1,316,304; Sept. 16; v. 266; p. 359.
- Henderson, John J., Topeka, Kans. Invalid-bed. No. 1,307,668; June 24; v. 263; p. 549.
- Henderson, John M. (See Martyn and Henderson.)
- Henderson, Lucy R., Phoebus, Va. Fire-escape. No. 1,292,772; Jan. 28; v. 258; p. 737.
- Henderson, Morris. (See Shilling and Henderson.)
- Henderson, Morris O., near Story City, Iowa. Traction-wheel. No. 1,316,951; Sept. 23; v. 266; p. 528.
- Henderson, Morris O., Story City, Iowa. Tractor-wheel. No. 1,326,500; Dec. 30; v. 269; p. 775.
- Henderson, Robert H., East Orange, N. J. Conduit-bender. No. 1,309,849; July 15; v. 264; p. 405.
- Henderson, Robert I. (See Watson and Henderson.)
- Henderson, Rufus C., Kankakee, Ill. Seed-hoot for corn-planters. No. 1,304,312; May 20; v. 262; p. 407.
- Henderson, William. (See Robertson, William A., assignor.)
- Henderson, William A., Larchmont, assignor to Holbrook Company, New York, N. Y. Folding seat for vehicles. No. 1,323,693; Dec. 2; v. 269; p. 88.
- Henderson, William A., Larchmont, assignor to Holbrook Company, New York, N. Y. Concealed hinge. No. 1,291,873; Jan. 21; v. 258; p. 497.
- Henderson, William J., Burwood, New South Wales, Australia. Soap stick for shaving purposes. No. 1,320,855; Nov. 4; v. 268; p. 94.
- Henderson, William T., Oklahoma, Okla. Ophthalmic mounting. No. 1,302,043; Apr. 29; v. 261; p. 853.
- Hendler, Max. (See Eishler and Hendler.)
- Hendley, John J., Brunswick, Ga. Starter for internal-combustion engines. No. 1,316,889; Sept. 23; v. 266; p. 517.
- Hendrick, Charles, New York, N. Y. Hand-loom. No. 1,313,596; Aug. 19; v. 265; p. 380.
- Hendrick, Foscolo O., East Orange, N. J., assignor to Pullclean Manufacturing Co., Inc., New York, N. Y. Roller-towel cabinet. No. 1,297,688; Mar. 18; v. 260; p. 480.
- Hendricks, Allan B., Jr., Pittsfield, Mass., assignor to General Electric Company, Transformer. No. 1,297,161; Mar. 11; v. 260; p. 339.
- Hendricks, Augustin, Grand Rapids, Mich. Wheel. No. 1,322,693; Nov. 25; v. 268; p. 606.
- Hendricks, Emmett L., Pasadena, Calif. Luggage-carrier. No. 1,321,742; Nov. 11; v. 268; p. 325.
- Hendrickson, Abram A., Westwood, N. J. Exerciser. No. 1,307,905; June 24; v. 263; p. 593.
- Hendrickson, Adolph H., Orland, Calif. Folding tooth-brush. No. 1,304,769; May 27; v. 262; p. 533.
- Hendrickson, David. (See Ray and Hendrickson.)
- Hendrickson, Jacob, Mullan, Idaho. Wagon-tongue. No. 1,291,509; Jan. 14; v. 258; p. 380.
- Hendrickson, William A., assignor to McWhorter Manufacturing Company, Riverton, N. J. Potato-picker mechanism for potato-planters. No. 1,312,984; Aug. 12; v. 265; p. 247.
- Hendrickson, William A., assignor to McWhorter Manufacturing Company, Riverton, N. J. Potato-picker mechanism for potato-planters. No. 1,314,398; Aug. 26; v. 265; p. 566.
- Hendrickson, Robert O. (See Eason and Hendrickson.)
- Hendrix, Granville L., Santa Rosa, Calif. Necktie. No. 1,324,740; Dec. 9; v. 269; p. 332.
- Hendrix, John D., Bremerton, Wash. Reversible coffee-urn. No. 1,315,198; Sept. 2; v. 266; p. 132.
- Hendron, James J., Chicopee Falls, Mass. Game apparatus. No. 1,313,484; Aug. 19; v. 265; p. 358.
- Hendry, James R., assignor to Acme Card System Company, Chicago, Ill. Card-filing system. No. 1,296,956; Mar. 11; v. 260; p. 294.
- Hendry, Samuel D., Columbus, Ohio. Jewelry-case having interchangeable cover. No. 1,305,241; May 27; v. 262; p. 622.
- Henemer, Robert H., New York, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Tire-valve. No. 1,296,516; Mar. 4; v. 260; p. 156.
- Henemer, Robert H., New York, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Tire-valve. No. 1,296,517; Mar. 4; v. 260; p. 157.
- Henemer, Robert H., New York, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pillow valve. No. 1,300,611; Apr. 15; v. 261; p. 498.
- Henes, Alfred A. (See Henes and Nelson.)
- Henes, John E. and A. A., and A. Nelson, assignors to Henes and Keller Company, Menominee, Mich. Automatic clamping mechanism for bottle-filling machines. No. 1,321,916; Nov. 18; v. 268; p. 408.
- Henes and Keller Company. (See Henes and Nelson, assignors.)
- Hengel, Mike. (See Tucker, Philander K., assignor.)
- Hengli, Lewis O., Oakmont, Pa. Anticreep. No. 1,300,612; Apr. 15; v. 261; p. 498.
- Hengli, Lewis O., Oakmont, Pa. Forming-tool. No. 1,313,380; Aug. 19; v. 265; p. 339.
- Henig Engine Co. (See Henig, Frank L., assignor.)
- Henig, Frank L., Chicago, Ill. assignor to Henig Engine Co. Rotary engine. No. 1,309,735; July 15; v. 264; p. 385.
- Henkel, Christian C. (See Burton, Elisha L., assignor.)
- Henkel, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Apparatus for testing lens systems. No. 1,305,980; June 3; v. 263; p. 142.
- Henkle, Willard G., Garrison, Iowa. Mold for concrete posts. No. 1,298,341; Mar. 25; v. 260; p. 644.
- Henkle, Willard G., Garrison, Iowa. Cleat for traction-wheels. No. 1,315,723; Sept. 9; v. 266; p. 236.
- Henle, John. (See Jensen and Henle.)
- Henley, Albert, Rural, Ala. Nut-lock. No. 1,323,187; Nov. 25; v. 268; p. 699.
- Henley, Harry F., Richmond, Ind. Toy aeroplane. No. 1,299,465; Apr. 8; v. 261; p. 222.
- Henn, Edwin C. (See Mebane, Charles P., assignor.)
- Henn, Edwin C. (See Drissner, Glosch, Henn, Smith, and Stern.)
- Henne, Isabelle, Brooklyn, N. Y. Top lift for shoe-heels. No. 1,293,429; Feb. 4; v. 259; p. 106.
- Henneböhle, Frank, Chicago, Ill. Two-fluid-control valve. No. 1,294,461; Feb. 18; v. 259; p. 414.
- Henner, George W. (See Decker, Frederick J., assignor.)
- Hennessy, Daniel E., Holyoke, Mass., assignor to Cowan Truck Company, trustees. Steering-column. No. 1,302,044; Apr. 29; v. 261; p. 853.
- Hennessy, Daniel E., Holyoke, Mass., assignor to Cowan Truck Company. Truck. No. 1,311,165; July 29; v. 264; p. 711.
- Hennessy, John J., New Kensington, Pa. Nut-lock. No. 1,308,672; July 1; v. 264; p. 122.
- Hennig, Adolph C. J., Seattle, Wash. Steam-boiler. No. 1,296,799; Mar. 11; v. 260; p. 257.
- Henning, Bessie, Chicago, Ill. Splash-guard for kitchen-sinks and the like. No. 1,302,658; May 6; v. 262; p. 33.
- Henning, Chester E., Bradner, Ohio. Gas-engine starter. No. 1,318,446; Oct. 14; v. 267; p. 211.
- Henning, Frederick C., assignor to The Miracle Artificial Arm Co., Chicago, Ill. Artificial hand. No. 1,298,502; Mar. 25; v. 260; p. 680.
- Henning, Henry M., Hinkley, Calif. Inner tire. No. 1,298,945; Apr. 1; v. 261; p. 76.
- Henninger, Frederick W., Detroit, Mich. Recording device for dispensing apparatus. No. 1,291,874; Jan. 21; v. 258; p. 498.
- Hennings, Marius, San Francisco, Calif. Incinerating-furnace. No. 1,318,666; Oct. 14; v. 267; p. 253.
- Henrichsen, Fritz R., Rosenberg, Tex. Barn-door lock. No. 1,307,401; June 24; v. 263; p. 501.
- Henrici, Fritz W. A., Boston, Mass. Reversing mechanism. No. 1,316,093; Sept. 16; v. 266; p. 320.
- Henrici Washing Machine Company. (See Henrici, William A. E., assignor.)
- Henrici, William A. E., Dorchester, assignor, by mesne assignments to L. F. Buff, Jamaica Plain, Mass. Driving and reversing mechanism. No. 1,309,410; July 8; v. 264; p. 287.



- Henrici, William A. E., Boston, Mass., assignor to Henrici Washing Machine Company. Washing, disinfecting, and dyeing machine. No. 1,309,411; July 8; v. 264; p. 287.
- Henrici, William A. E., Roxbury, Mass., assignor to Henrici Washing Machine Company. Washing-machine. No. 1,309,412; July 8; v. 264; p. 287.
- Henricks, Arthur G., Milwaukee, assignor to Pawling and Harnischfeger Company, West Milwaukee, Wis. Grapple. No. 1,295,163; Feb. 25; v. 259; p. 598.
- Henrikson, Frank W., and T. Davison, Mulberry, Kans. Adjustable valve mechanism. No. 1,292,464; Jan. 28; v. 258; p. 663.
- Henrikson, Gregor S., Fort Ransom, N. D. Stock-releaser. No. 1,294,101; Feb. 11; v. 259; p. 293.
- Henrikson, Otto T., Chicago, Ill. Davit. No. 1,316,542; Sept. 16; v. 266; p. 405.
- Henriot, Maurice, Arlington, N. J., assignor to I. Heidell, New York, N. Y. Cigar-cutter. No. 1,294,358; Feb. 11; v. 259; p. 353.
- Henry, Aaron B., Brown Valley, Minn. Planing-stand. No. 1,308,673; July 1; v. 264; p. 122.
- Henry, Charles A., Chicago, Ill. Counterpoising mechanism. No. 1,309,198; July 8; v. 264; p. 247.
- Henry, Charles S. B., assignor of one-half to O. J. Lovering, Raymond, Wash. Saw-handle. No. 1,301,436; Apr. 22; v. 261; p. 706.
- Henry Disston & Sons. (See Carter, Albert S., assignor.)
- Henry Doherty Silk Company. (See Robbins, John W., assignor.)
- Henry, Ernest J., Cedar Rapids, Iowa. Window-bed. No. 1,300,266; Apr. 15; v. 261; p. 425.
- Henry, Ferdinand G., Philadelphia, Pa., assignor to Burkhart Corporation, Buffalo, N. Y. Spray measuring device. No. 1,316,721; Sept. 23; v. 266; p. 487.
- Henry, Frederick D., Portland, Oreg. Tooth-powder can and other can for powder. No. 1,326,053; Dec. 23; v. 269; p. 655.
- Henry, George D., Kansas City, Mo. Fly-swatter. No. 1,315,186; Sept. 2; v. 266; p. 130.
- Henry, George E. (See Wampler and Henry.)
- Henry, George W., Jr., assignor to H. G. Davis Manufacturing Company, Philadelphia, Pa. Pin-ticketing machine. No. 1,300,726; Apr. 15; v. 261; p. 523.
- Henry, George W., assignor to E. Boissier, New York, N. Y. Tool-holder. No. 1,311,445; July 29; v. 264; p. 764.
- Henry Hughes and Son Ltd. (See Starling and Hughes, assignors.)
- Henry Hyman & Co. (See Drufva, John T., assignor.)
- Henry, James T. (See Amende, Kuhnhehn, and Henry.)
- Henry L. Hughes Co. (See Sherman, William T., assignor.)
- Henry, Miguel, Manila, Philippine Islands. Roofing-tile. No. 1,297,162; Mar. 11; v. 260; p. 339.
- Henry, Patrick J., Burlington, Vt., assignor, by mesne assignments, to Auto License Holder Co., Inc. Automobile-box fastener. No. 1,322,188; Nov. 18; v. 268; p. 459.
- Henry R. Worthington. (See De Laval, Carl G., assignor.)
- Henry R. Worthington. (See De Laval and Heimbecker, assignors.)
- Henry R. Worthington. (See Worden, Euclid P., assignor.)
- Henry, Rufus V. (See Estep, Waldron S., assignor.)
- Henry Schmidt & Bro. (See Stortz, John H., assignor.)
- Henry, Stanley, and R. O. Ralston, Seaside, Oreg. Riving splitter and jack. No. 1,303,060; May 6; v. 262; p. 110.
- Henry T. Adams Mfg. Co. (See Adams, Henry T., assignor.)
- Henry, Thomas B., Northville, Mich. Speculum or vaginal syringe. No. 1,326,342; Dec. 30; v. 269; p. 745.
- Henry, Virginia B., Montgomery, Ala. Dropping-stopper for medicine-bottles. No. 1,313,987; Aug. 26; v. 265; p. 488.
- Henry Vogt Machine Company. (See Thurstensen, Soren, assignor.)
- Henry, William J., Akron, Ohio. Automobile- semaphore. No. 1,303,312; May 13; v. 262; p. 186.
- Henry William S. (See Howe, Henry, and Hall.)
- Hensal, Elmer A., Panora, Iowa. Truck-scoop. No. 1,297,163; Mar. 11; v. 260; p. 339.
- Henschel, Lipman, New York, N. Y. Hat-covering. No. 1,293,645; Feb. 4; v. 259; p. 156.
- Hensel, Otto W., Linn Grove, Iowa. Self-feeder for saws. No. 1,321,917; Nov. 18; v. 268; p. 408.
- Henselman, Otto, Canton, Ohio. Wire-tightening device. No. 1,305,798; June 3; v. 263; p. 107.
- Henshaw, Erle N. R., et al. (See Henshaw, Fred M., assignor.)
- Henshaw, Fred M., assignor of one-half to G. W. Cline, Lake Charles, La., and one-half to E. N. R. Henshaw, Houston, Tex. Spring-cushion. No. 1,325,092; Dec. 16; v. 269; p. 459.
- Henshaw, Fred M., assignor of one-half to G. W. Cline, Sr., Lake Charles, La., and one-half to E. N. R. Henshaw, Houston, Tex. Automatic locking laundry-pin. No. 1,325,093; Dec. 16; v. 269; p. 459.
- Henslee, Conrad S., North Chattanooga, Tenn. Submarine-destroying apparatus. No. 1,315,122; Sept. 2; v. 266; p. 118.
- Hensley, Arthur F., Muncie, Ind. Collar. No. 1,296,185; Mar. 4; v. 260; p. 85.
- Henson, Alford B., Franklin, Ky. Demountable rim. No. 1,301,695; Apr. 22; v. 261; p. 755.
- Henson, George S., Rushville, Mo. Feeding device. No. 1,309,090; July 8; v. 264; p. 228.
- Henstridge, William, Sorrento, British Columbia, Canada. Tread device for shoes. No. 1,299,182; Apr. 1; v. 261; p. 129.
- Hentschke, Paul, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Cylinder-head. No. 1,326,501; Dec. 30; v. 269; p. 775.
- Hentzell, Arthur L., Paw Paw, Mich. Liquid-fuel burner. No. 1,305,465; June 3; v. 263; p. 44.
- Hentzell, Hervey, Gary, Ind. Electric motor having improved side frames. No. 1,326,502; Dec. 30; v. 269; p. 775.
- Henwood, Abraham, Cynwyd, Pa. Oxidation of ammonia to nitric acid. No. 1,309,622; July 15; v. 264; p. 364.
- Henwood, Abraham, Cynwyd, Pa. Catalyzer. No. 1,309,623; July 15; v. 264; p. 364.
- Henwood, Abraham, Cynwyd, Pa. Manufacture of phosphate fertilizers. No. 1,310,080; July 15; v. 264; p. 447.
- Henzi, Albert A., Chicago, Ill., assignor to Goss Printing Press Company. Stereotype-plate-finishing machine. No. 1,293,430; Feb. 4; v. 259; p. 106.
- Hepfinger, William, Birmingham, Mich. Letter-drafting instrument. No. 1,307,736; June 24; v. 263; p. 562.
- Hepler, Irvin F., Narberth, Pa., assignor to General Refractories Company, New York, N. Y. Measuring and mixing apparatus. No. 1,313,892; Aug. 26; v. 265; p. 468.
- Heppes, Ernest H., assignor to H. B. Lederer Co., New York, N. Y. Display-cabinet. No. 1,317,162; Sept. 30; v. 266; p. 605.
- Heppes, Otto A., La Grange, Ill. Machine for making roofing-strips. No. 1,290,555; Jan. 7; v. 258; p. 131.
- Heppes, Otto A., La Grange, Ill. Waterproof and air-proof cardboard and making the same. No. 1,320,549; Nov. 4; v. 268; p. 36.
- Hepworth, Cecil M., London, England. Apparatus for exposing cinematograph positive films. No. 1,310,337; July 15; v. 264; p. 494.
- Hepworth, Harry, Cleckheaton, England. Hardening and tempering of wire. No. 1,315,835; Sept. 9; v. 266; p. 257.
- Herbert, Albert H., et al. (See Connor and Miles, assignors.)
- Herbert, Arthur W., Youngstown, Ohio, assignor to The General Fireproofing Company. Lathing material. No. 1,303,313; May 13; v. 262; p. 186.
- Herbert B. Lederer Co. (See Heppes, Ernest H., assignor.)
- Herbert, Charles C., San Jose, Calif. Combination exhaust and intake manifold. No. 1,306,898; June 17; v. 263; p. 376.
- Herbert, Frederick H., Nashua, N. H. Attachment for looms. No. 1,323,186; Nov. 25; v. 268; p. 699.
- Herbert, Harold, Liscard, England. Sewing-machine. No. 1,318,275; Oct. 7; v. 267; p. 118.
- Herbert, John W. (See Andrews and Herbert.)
- Herbert, John W., and J. A. Andrews, Biddeford, Me. Pick-stick check for looms. No. 1,305,799; June 3; v. 263; p. 108.
- Herbert, John W., and J. A. Andrews, Biddeford, Me. Pick-stick check. No. 1,322,789; Nov. 25; v. 268; p. 624.
- Herbert, John W., and J. A. Andrews, Biddeford, Me. Check-strap for pick-sticks. No. 1,322,790; Nov. 25; v. 268; p. 624.
- Herbert, Michael E., Chicago, Ill. Boiler. No. 1,320,690; Nov. 4; v. 268; p. 62.
- Herbert, Pitt H., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,302,548; May 6; v. 262; p. 13.
- Herbert, Pitt H., assignor to The American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,306,540; June 10; v. 263; p. 277.
- Herbert, Thomas. (See Peacock and Herbert.)
- Herbert, William J. S., Orrville, Ohio. Bedstead. No. 1,308,674; July 1; v. 264; p. 122.
- Herbst, Robert, Mount Vernon, N. Y. Adding-machine. No. 1,293,094; Feb. 4; v. 259; p. 28.
- Herbst, Robert L. and L. Morack, Hortonville, Wis.; said Morack assignor to said Herbst. Post-clamp. No. 1,309,941; July 15; v. 264; p. 423.
- Herbst, William B., Columbus, Ind. Screen for inclosed automobile bodies. No. 1,312,542; Aug. 12; v. 265; p. 159.
- Herby, Wilbur R., Dayton, Ohio. Antirattle door-latch. No. 1,318,382; Oct. 14; v. 267; p. 199.
- Hercules Electric Company. (See Baker, Arthur R., assignor.)
- Hercules Manufacturing Company. (See Berkeley, Laurence J., assignor.)
- Hercules Powder Company. (See Barab, Jacob, assignor.)
- Hercules Powder Company. (See Bierbauer and Finch, assignors.)
- Hercules Powder Company. (See Finch, Leon S., assignor.)
- Hercules Powder Company. (See Nash, William F., assignor.)



## Alphabetical list of patentees—Continued.

- Herd, Adolph, Youngstown, Ohio. Garment-maker. No. 1,316,613; Sept. 23; v. 266; p. 466.
- Herdman, William J., Toronto, Ontario, Canada. High-frequency-discharge apparatus. No. 1,323,472; Dec. 2; v. 269; p. 47.
- Herrf, Adolph P., San Antonio, Tex. Oil-retaining internal-gear drive. No. 1,305,103; May 27; v. 262; p. 596.
- Hering, Louie. (See Wardlow, Hays, assignor.)
- Herle, Chester A., Rochester, assignor to D. H. Wright, Webster, N. Y. Dust-cap for tire-valves. No. 1,301,938; Apr. 29; v. 261; p. 833.
- Herlihy, Robert, New York, N. Y. Door-bolt lock. No. 1,294,462; Feb. 18; v. 259; p. 414.
- Herman, Bernadette M. (See Herman, Joseph F., assignor.)
- Herman, Henry F., Pleasantville, assignor to Imperial Piano Player Company, New York, N. Y. Selective controlling apparatus for electric circuits. No. 1,326,864; Dec. 30; v. 269; p. 844.
- Herman, Jacob W. (See Hyle and Herman.)
- Herman, John, Los Angeles, Cal. Projectile. No. 1,293,431; Feb. 4; v. 259; p. 106.
- Herman, John, Easton, Pa. Drafting or measuring instrument. No. 1,294,263; Feb. 11; v. 259; p. 331.
- Herman, John E., Cincinnati, Ohio. Vehicle-seat cover. No. 1,317,369; Sept. 30; v. 266; p. 644.
- Herman, Joseph E., Washington, D. C., assignor to B. M. Herman. Antiskidding chain for wheels. No. 1,315,366; Sept. 9; v. 266; p. 173.
- Herman, Maer, Chicago, Ill. Trestle. No. 1,294,264; Feb. 11; v. 259; p. 331.
- Herman, Raymond L., Newark, N. J., assignor, by mesne assignments, to The Sperry Gyroscope Company, Brooklyn, N. Y. Shears. No. 1,321,918; Nov. 18; v. 268; p. 409.
- Herman, Reinhold, Pittsburgh, Pa. Adjustable display device. No. 1,290,189; Jan. 7; v. 258; p. 42.
- Herman, Reinhold, and J. L. Morris, Crafton, Pa. Automatic switch-operating attachment and receiver-holder for telephones. No. 1,320,005; Oct. 28; v. 267; p. 556.
- Herman Scheuer & Sons. (See Holland, Frederick W., assignor.)
- Herman, Urban, Marshfield, Wis. Crank-holder. No. 1,325,564; Dec. 23; v. 269; p. 564.
- Hermann, Caspar, Baltimore, Md. Design plate or cylinder for lithographic-printing machines. No. 1,319,076; Oct. 21; v. 267; p. 356.
- Hermann, Joseph W., Chicago, Ill., assignor to Splitdorf Electrical Co., Newark, N. J. Automatic impulse-starter. No. 1,318,206; Oct. 7; v. 267; p. 104.
- Hermann, Louis, Chicago, Ill. Sharpening-tool. No. 1,305,602; June 3; v. 263; p. 72.
- Hermann, Olof, Burlington, Wash. Beet-puller. No. 1,298,708; Apr. 1; v. 261; p. 20.
- Hermann, Seymour M., New York, N. Y. Mordanting by means of calcium antimony tartrate. No. 1,307,860; June 24; v. 263; p. 584.
- Hermansen, George H., Sacramento, Cal. Finger-exerciser. No. 1,290,742; Jan. 7; v. 258; p. 176.
- Hermesdorf, Walter H., assignor, by mesne assignments, to The Hump Hairpin Manufacturing Company, Chicago, Ill. Machine for making coated articles. No. 1,301,559; Apr. 22; v. 261; p. 729.
- Hermesdorf, Walter H., assignor to S. H. Goldberg, Chicago, Ill. Retreading apparatus. No. 1,318,383; Oct. 14; v. 267; p. 199.
- Hermesdorf, Walter H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Machine for coating articles. No. 1,319,867; Oct. 28; v. 267; p. 531.
- Herndon, S. L. (See Evans, Purd, assignor.)
- Herod, Charles H., assignor to Brantford Computing Scale Company, Limited, Brantford, Ontario, Canada. Meat-slicer. No. 1,323,054; Nov. 25; v. 268; p. 673.
- Herpst, Harold D., and O. J. Larson, Jamestown, N. Y. Knockdown sheet-metal drawer. No. 1,290,743; Jan. 7; v. 258; p. 177.
- Herr, Abram B., assignor of one-third to E. M. Royer and one-third to J. H. Moseman, Lancaster, Pa. Can-holding device for can-washing machines. No. 1,322,439; Nov. 18; v. 268; p. 506.
- Herr, Herbert T., Pittsburgh, Pa. Compressor-controlling means. No. 1,291,875; Jan. 21; v. 258; p. 498.
- Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine propulsion. No. 1,291,876; Jan. 21; v. 258; p. 498.
- Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Steam-turbine. No. 1,298,206; Mar. 25; v. 260; p. 616.
- Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Geared-turbine installation. No. 1,312,907; Aug. 12; v. 265; p. 231.
- Herr, John, near Lebanon, Ind. Seed harvester and cleaner. No. 1,297,349; Mar. 18; v. 260; p. 408.
- Herrbold, William J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,291,877; Jan. 21; v. 258; p. 499.
- Herrbold, William J., and C. Keelan, Kalamazoo, Mich. Machine for treating paper-stock. No. 1,298,207; Mar. 25; v. 260; p. 617.
- Herrenbruck, Herman, and F. Andreas, assignors to Bridge & Beach Mfg. Co., St. Louis, Mo. Stove-door. No. 1,311,891; Aug. 5; v. 265; p. 8.
- Herres, Michael P., Peola, Wash. Wood-saw. No. 1,324,117; Dec. 9; v. 269; p. 212.
- Herres, Michael P., Pomeroy, Wash. Adjustable tightening-connector. No. 1,326,401; Dec. 30; v. 269; p. 756.
- Herreshoff, Alexander G., assignor to International Motor Company, New York, N. Y. Shaft-coupling. No. 1,306,541; June 10; v. 263; p. 277.
- Herreshoff, Alexander G., assignor to International Motor Company, New York, N. Y. Brake-band carrier. No. 1,306,899; June 17; v. 263; p. 376.
- Herreshoff, Alexander G., assignor to International Motor Company, New York, N. Y. Mounting for engine accessories. No. 1,317,703; Oct. 7; v. 267; p. 8.
- Herrick, Albert B., Cleveland, Ohio, assignor to M. C. Messler, Pawtucket, R. I. Generating mechanism. No. 1,290,190; Jan. 7; v. 258; p. 43.
- Herrick, Albert B., Brooklyn, N. Y., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Apparatus for increasing the resistance of electric arcs. No. 1,318,147; Oct. 7; v. 267; p. 92.
- Herrick, Charles G., Independence, Iowa. Spectacle-cabinet. (Reissue.) No. 14,592; Feb. 18; v. 259; p. 559.
- Herrick, Gerardus P., New York, N. Y. Lens-mounting. No. 1,317,131; Sept. 23; v. 266; p. 563.
- Herring, Henry, Kouts, Ind. Dipper or bucket. No. 1,296,800; Mar. 11; v. 260; p. 257.
- Herrman, Charles, New York, N. Y. Nut and bolt-head wrench. No. 1,297,846; Mar. 18; v. 260; p. 513.
- Herrman, Charles, New York, N. Y. Tap. No. 1,317,624; Sept. 30; v. 266; p. 693.
- Herrman, Edmund. (See Fraenkel and Herrman.)
- Herrmann, Joseph C., Milwaukee, Wis. Gate-operating mechanism. No. 1,298,709; Apr. 1; v. 261; p. 20.
- Herrmann, Wenzel H., Norheim, Mont. Machine for treating seed-grain. No. 1,324,312; Dec. 9; v. 269; p. 250.
- Herrold, Harry L., Cleveland, Ohio. Crutch. No. 1,304,978; May 27; v. 262; p. 572.
- Herschede Hall Clock Company, The. (See Cohan, Charles, assignor.)
- Herschede Hall Clock Company, The. (See Herschede and Cohan, assignors.)
- Herschede, Walter J., and C. Cohan, assignors to The Herschede Hall Clock Company, Cincinnati, Ohio. Hammer-arrest for clock-chimes. No. 1,323,390; Dec. 2; v. 269; p. 32.
- Hersee, Frederick C., Waltham, Mass. Timer-casing. No. 1,312,985; Aug. 12; v. 265; p. 247.
- Hershey, Elias H., Lancaster, Pa. Means for preserving wooden posts and poles from decay. No. 1,293,771; Feb. 11; v. 259; p. 216.
- Hershey, Grant W., assignor of one-half to O. V. Burkett, Fremont, Ohio. Starting-crank lock. No. 1,313,485; Aug. 19; v. 265; p. 358.
- Hershey, Harry E. (See Yanochowski and Hershey.)
- Hershey, Harry E., White Water, Kans., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,292,465; Jan. 28; v. 258; p. 663.
- Hershman, Paul R. (See MacDowell and Hershman.)
- Herskovitz, Max, Chicago, Ill. Lamp-shade. No. 1,291,510; Jan. 14; v. 258; p. 380.
- Herskovitz, Max, Chicago, Ill. Electric-lighting fixture. No. 1,298,208; Mar. 25; v. 260; p. 617.
- Herskovitz, Max, Chicago, Ill. Shade-holder. No. 1,303,898; May 20; v. 262; p. 331.
- Hertel, Otto H., Glenellyn, assignor to Consumers Company, Chicago, Ill. Furnace. No. 1,306,180; June 10; v. 263; p. 209.
- Herter, Rudolph B., assignor to Jones and Baker, New York, N. Y. Folding mailing-card. No. 1,311,397; July 29; v. 264; p. 755.
- Hertz, Hjalmar, and G. C. Marx, assignors to Diehl Manufacturing Co., Elizabeth, N. J. Universal support. No. 1,324,895; Dec. 16; v. 269; p. 422.
- Hertzberg, Harry. (See Eckelmann and Hertzberg.)
- Hertzberg, Harry, New York, N. Y., assignor to Pyrene Manufacturing Company. Electrothermal device. No. 1,292,773; Jan. 28; v. 258; p. 737.
- Hervey, Barber & McKee. (See Cochrane, Albert P., assignor.)
- Hervey, Barber & McKee. (See Sessions, George W., assignor.)
- Herwig, Jr., William D., Chicago, Ill. Portable lamp-stand. No. 1,303,061; May 6; v. 262; p. 111.
- Herwig, William D., Jr., Chicago, Ill. Universal joint. No. 1,318,148; Oct. 7; v. 267; p. 93.
- Herz, Alfred, Chicago, Ill. Illuminated sign. No. 1,303,556; May 13; v. 262; p. 230.
- Herz, Gustave L., New York, N. Y. Spark-plug. No. 1,306,304; June 10; v. 263; p. 234.
- Herz, Gustave L., New York, N. Y. Combined spark indicator and intensifier. No. 1,317,924; Oct. 7; v. 267; p. 50.
- Herzog, John, Saginaw, Mich. Cabinet for talking-machines. No. 1,308,420; July 1; v. 264; p. 75.
- Hesjedal, Andrew, Fertile, Minn. Wire-stretcher. No. 1,320,856; Nov. 4; v. 268; p. 94.
- Hess-Bright Manufacturing Company, The. (See Gray, Budd D., assignor.)



- Hess-Bright Manufacturing Company, The. (See Gray and Rubencame, assignors.)
- Hess, Edward B., and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Type-writing machine. No. 1,290,989; Jan. 14; v. 258; p. 259.
- Hess, Edward B., New York, and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Ribbon-spool. No. 1,301,696; Apr. 22; v. 261; p. 756.
- Hess, Edward B., New York, and L. C. Myers, Brooklyn, assignors to Royal Typewriter Company, Inc., New York, N. Y. Type-writing machine. No. 1,304,682; May 27; v. 262; p. 517.
- Hess, Francis E., Blackwell, Okla. Straw-toothpick-making machine. No. 1,313,820; Aug. 19; v. 265; p. 422.
- Hess, Fred F., and W. W. Scott, assignors of one-third to O. J. Albers, Chehalis, Wash. Attachment for motor-vehicles. No. 1,295,895; Mar. 4; v. 260; p. 17.
- Hess, Henry, Philadelphia, Pa. Soldering-pack. No. 1,291,878; Jan. 21; v. 258; p. 499.
- Hess, Henry, Philadelphia, Pa. Pencil. No. 1,294,802; Feb. 18; v. 259; p. 493.
- Hess, Henry, assignor to Hess-Ives Corporation, Philadelphia, Pa. Photographic-camera-exposing mechanism. No. 1,300,613; Apr. 15; v. 261; p. 499.
- Hess, Henry K., Syracuse, N. Y. Building unit. No. 1,291,879; Jan. 21; v. 258; p. 499.
- Hess-Ives Corporation. (See Hess, Henry, assignor.)
- Hess, John G., Adamston, W. Va. Gas-burner for furnaces. No. 1,311,515; July 29; v. 264; p. 777.
- Hess, Maximuss, assignor of one-half to F. A. Leatherman, Nashville, Tenn. Pipe-organ. No. 1,314,327; Aug. 26; v. 265; p. 552.
- Hess, Simon B., New York, N. Y. Burglar-alarm system. No. 1,298,710; Apr. 1; v. 261; p. 21.
- Hess, Simon B., New York, N. Y. Electric distribution system. No. 1,298,711; Apr. 1; v. 261; p. 21.
- Hess, Simon B., New York, N. Y. Battery arrangement. No. 1,306,147; June 10; v. 263; p. 202.
- Hess, Simon B., New York, N. Y. Electric burglar-alarm. No. 1,320,857; Nov. 4; v. 268; p. 94.
- Hess, Simon B., New York, N. Y. Electric signaling system. No. 1,324,449; Dec. 9; v. 269; p. 277.
- Hess, Thomas, *et al.* (See McLaughlin, William D., assignor.)
- Hess, Wendell, Jr., assignor to W. & L. E. Gurley, Troy, N. Y. Sender for water-stage recorders. No. 1,313,690; Aug. 19; v. 265; p. 397.
- Hess, William A., Perry, Okla. Post-mold. No. 1,313,893; Aug. 26; v. 265; p. 469.
- Hesse, Gustaf E., Brooklyn, assignor of one-half to G. H. Robinson, New York, N. Y. Torpedo. No. 1,302,162; Apr. 29; v. 261; p. 875.
- Hessel, Albert C., New York, N. Y. Conveyor system for steam and other substances. No. 1,308,072; July 1; v. 264; p. 12.
- Hessel, Albert C., New York, N. Y. Conduit. No. 1,317,495; Sept. 30; v. 266; p. 668.
- Hessel, William F., New York, N. Y. Electrical switch device. No. 1,296,801; Mar. 11; v. 260; p. 257.
- Hessick, Delbert A., *et al.* (See Tolles and Ernsberger, assignors.)
- Hessler, John D., Villa Grove, Ill. Lock. No. 1,307,971; June 24; v. 263; p. 605.
- Hessler, Sone A., Jamestown, N. Y. Duplex float for fishing-lines. No. 1,317,496; Sept. 30; v. 266; p. 668.
- Hestand, Rue S., Howe, Tex. Ratchet pipe-cutter. No. 1,304,770; May 27; v. 262; p. 533.
- Hestand, Rue S., Howe, Tex. Ratchet die-stock. No. 1,310,620; July 22; v. 264; p. 578.
- Hester, George C., Chicago, Ill. Corner and division bar. No. 1,307,972; June 24; v. 263; p. 605.
- Hester, George C., Chicago, Ill. Corner and division bar. No. 1,307,973; June 24; v. 263; p. 606.
- Hester, George C., Chicago, Ill. Corner and division bar for store-front constructions. No. 1,311,398; July 29; v. 264; p. 755.
- Hester, George C., assignor to Brasco Manufacturing Company, Chicago, Ill. Store-front construction. No. 1,291,511; Jan. 14; v. 258; p. 380.
- Hester, George C., Portland, Oreg., assignor to Hester Manufacturing Company, Chicago, Ill. Ventilated glass-setting for windows. No. 1,303,062; May 6; v. 262; p. 111.
- Hester, James, Dinkins, Tex. Railway-switch. No. 1,326,263; Dec. 30; v. 269; p. 731.
- Hester Manufacturing Company. (See Hester, George C., assignor.)
- Hettinger, Charles, Anita, Iowa. Splicing-tool for barbed wire and other wires. No. 1,318,078; Oct. 7; v. 267; p. 79.
- Hettinger, Irma M., Center Hall, Pa. Stone crock or jar. No. 1,324,896; Dec. 16; v. 269; p. 422.
- Hettinger, John, London, England. Aerial conductor for wireless signaling and other purposes. No. 1,309,031; July 8; v. 264; p. 217.
- Hettinger, John, London, England. Telegraphic and other instruments and installations. No. 1,322,566; Nov. 25; v. 268; p. 582.
- Hettinger, Julius E., Chicago, Ill. Cooking utensil. No. 1,323,473; Dec. 2; v. 269; p. 47.
- Hetts, Charles V., Detroit, Mich. Sash-center. No. 1,299,183; Apr. 1; v. 261; p. 230.
- Hetzel, William H., Syracuse, N. Y. Number-plate. No. 1,323,694; Dec. 2; v. 269; p. 88.
- Heuberger, Harry H., Sheffield, Iowa. Wire-splicing tool. No. 1,314,079; Aug. 26; v. 265; p. 505.
- Heudebert, Charles A., Nanterre, France. Manufacture of concentrated bread. No. 1,293,772; Feb. 11; v. 259; p. 216.
- Heulings, Samuel M., Haddonfield, N. J. Apparatus for pasteurizing fluids. No. 1,310,017; July 15; v. 264; p. 436.
- Heumann, Henry F., Marissa, Ill. Adjustable clamp for slide-rails in mines. No. 1,298,946; Apr. 1; v. 261; p. 76.
- Heuser, Herman, Chicago, Ill. Manufacture of extracts of beer and other fermented beverages. No. 1,290,191; Jan. 7; v. 258; p. 43.
- Heuser, Herman, Chicago, Ill. Manufacture of liquid-condensed yeast-treated extracts from beverages. No. 1,290,192; Jan. 7; v. 258; p. 43.
- Heuser, Herman, Chicago, Ill. Brewing beer. No. 1,302,549; May 6; v. 262; p. 13.
- Heuser, Herman, Chicago, Ill. Manufacture of non-intoxicating hopped beverages. No. 1,302,550; May 6; v. 262; p. 13.
- Heuser, Herman, Chicago, Ill. Manufacture of alcohol-reduced beer. No. 1,302,551; May 6; v. 262; p. 14.
- Heuser, Herman, Chicago, Ill. Manufacture of alcohol-reduced beverages. No. 1,302,552; May 6; v. 262; p. 14.
- Heuser, Herman, Chicago, Ill. Apparatus for making carbonated beverages. No. 1,308,587; July 1; v. 264; p. 106.
- Heuser, Herman, Chicago, Ill. Preparation of alcohol-reduced beer. No. 1,308,588; July 1; v. 264; p. 106.
- Heuser, Leonard, New York, N. Y. Combination stropping device and safety-razor. No. 1,301,437; Apr. 22; v. 261; p. 706.
- Heusser, Wilfrid, Salt Lake City, Utah. Precision-level. No. 1,299,940; Apr. 8; v. 261; p. 328.
- Heusser, Wilfrid, Salt Lake City, Utah. Mechanical pan-extractor for balances. No. 1,316,890; Sept. 23; v. 266; p. 517.
- Hewes, Walter H., assignor to one-half to C. H. Imes, Saco, Me. Grate for ovens. No. 1,300,964; Apr. 15; v. 261; p. 573.
- Hewett, Isaac O., Berkeley Springs, W. Va. Folding inside and outside calipers and compasses. No. 1,305,284; June 3; v. 263; p. 11.
- Hewett, Robert J., Westfield, N. J. Cab signal system. No. 1,295,896; Mar. 4; v. 260; p. 18.
- Hewitt, Edward R., Midvale, N. J. Means to measure the suction in manifolds of internal-combustion engines. No. 1,323,531; Dec. 2; v. 269; p. 58.
- Hewitt, Edward R., Midvale, N. J., and A. H. Leipert, Brooklyn, N. Y., assignors to International Motor Company, New York, N. Y. Motor. No. 1,326,661; Dec. 30; v. 269; p. 805.
- Hewitt, Frank M., Butte, Mont. Shovel-machine. No. 1,304,683; May 27; v. 262; p. 518.
- Hewitt, Frank W., Arlington, assignor to Simplex Electric Heating Company, Boston, Mass. Electric range. No. 1,307,048; June 17; v. 263; p. 404.
- Hewitt, Peter C., Ringwood Manor, N. J. System of electrical distribution. No. 1,295,499; Feb. 25; v. 259; p. 675.
- Hewitt, Peter C., Ringwood Manor, N. J. Antenna for wireless distribution systems. No. 1,305,104; May 27; v. 262; p. 596.
- Hewitt, Peter C., Ringwood Manor, N. J. Directive wireless transmission. No. 1,314,593; Sept. 2; v. 266; p. 23.
- Hewitt, Peter C., Ringwood Manor, N. J. Method of and apparatus for transforming electrical energy. No. 1,321,432; Nov. 11; v. 268; p. 267.
- Hewitt, Peter C., Ringwood Manor, N. J. Gas or vapor lamp and operating the same. No. 1,321,433; Nov. 11; v. 268; p. 267.
- Hewitt, Peter C., Ringwood Manor, N. J. Apparatus for regulating electric circuits. No. 1,321,434; Nov. 11; v. 268; p. 267.
- Hewitt, Peter C., Ringwood Manor, N. J. Method of and means for creating in a portion of an electric circuit a falling electromotive-force characteristic. No. 1,321,435; Nov. 11; v. 268; p. 268.
- Hewitt, Peter C., Ringwood Manor, N. J. Method of and means for varying the frequency of an oscillating current. No. 1,321,436; Nov. 11; v. 268; p. 268.
- Hewitt, Peter C., Ringwood Manor, N. J. Means for producing periodic or alternating currents and controlling the frequency of the same. No. 1,321,437; Nov. 11; v. 268; p. 268.
- Hewitt, Peter C., Ringwood Manor, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. System of electrical distribution. No. 1,314,592; Sept. 2; v. 266; p. 22.
- Hewitt, Peter C., Ringwood Manor, assignor, by mesne assignments, to Cooper Hewitt Electric Company, Hoboken, N. J. Method of and apparatus for transforming electrical energy. No. 1,321,438; Nov. 11; v. 268; p. 268.



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- Hewitt, Thomas, Bridgeport, Conn. Keyless padlock. No. 1,316,037; Sept. 16; v. 266; p. 309.
- Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,291,512; Jan. 14; v. 258; p. 380.
- Hewlett, Edward M., Schenectady, N. Y., and C. I. Burkholder, Charlotte, N. C., assignors to General Electric Company. System of electrical distribution. No. 1,295,498; Feb. 25; v. 259; p. 675.
- Hewston, Charles E., and H. G. Hamilton, Portland, Oreg. Non-skid attachment for automobiles. No. 1,326,343; Dec. 30; v. 269; p. 745.
- Hey, Edmund A., La Grange, Ill., assignor to The Williams Sealing Corporation, Waterbury, Conn. Feeding device for bottle-capping machines. No. 1,311,892; Aug. 5; v. 265; p. 8.
- Heydon, Edward, Indianapolis, Ind. Cross-arm support for poles. No. 1,316,952; Sept. 23; v. 266; p. 528.
- Heyer, Carl D., Council Bluffs, Iowa. Adjustable chute construction. No. 1,307,199; June 17; v. 263; p. 430.
- Heyer, William A., Milwaukee, Wis. Whistle. No. 1,315,019; Sept. 2; v. 266; p. 100.
- Heyermans, Charles L., West Kensington, London, England. Self-propelled vehicle. No. 1,305,105; May 27; v. 262; p. 596.
- Heyermans, Charles L., assignor of one-half to C. H. A. Edye, London, England. Steering mechanism for motor-vehicles. No. 1,312,909; Aug. 12; v. 265; p. 231.
- Heyl, Firm Cornelius. (See Schulz, Heinrich, assignor.)
- Heyl & Patterson. (See Bickley, Ross M., assignor.)
- Heyl & Patterson. (See Brown, Raymond E., assignor.)
- Heyl & Paterson, Inc. (See Patterson and Bickley, assignors.)
- Heylman, Daniel W., assignor of one-half to O. C. Schoenfeld, Oshkosh, Wis. Sash-adjuster. No. 1,303,794; May 13; v. 262; p. 273.
- Heylman, Edward M. (See Roberts and Heylman.)
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Disk plow. No. 1,298,209; Mar. 25; v. 260; p. 617.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Planter. No. 1,302,922; May 6; v. 262; p. 84.
- Heyman, David, New York, N. Y., assignor to Mohawk Metal Toy Co., Inc. Liquid-pistol. No. 1,321,099; Nov. 11; v. 268; p. 203.
- Heymann, Bernhard, Wiesdorf-on-the-Rhine, O. Dressel, Mülheim-on-the-Rhine, R. Kothe, Vohwinkel, near Elberfeld, and A. Ossenbeck, Cologne-on-the-Rhine, Germany, assignors to Synthetic Patents Co., Inc., New York, N. Y. Ureids of substituted aminonaphthol substances. No. 1,308,071; July 1; v. 264; p. 12.
- Heymann, Enrique, Habana, Cuba. Automobile-wheel. No. 1,319,957; Oct. 28; v. 267; p. 547.
- Heys, John J., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation; Paterson, N. J. Sole-molding machine. No. 1,291,880; Jan. 21; v. 258; p. 499.
- Heys, John J., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Molding sheets of leather and analogous material. No. 1,296,518; Mar. 4; v. 260; p. 157.
- Heys, John J., Lynn, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Last. No. 1,312,543; Aug. 12; v. 265; p. 160.
- Heyser, George E., Manchester, Ga. Locomotive-tank hose connection and strainer. No. 1,299,466; Apr. 8; v. 261; p. 222.
- Heyward, Julius H., Greenville, S. C. Type-written desk. No. 1,321,439; Nov. 11; v. 268; p. 269.
- Heywood Brothers and Wakefield Company. (See Hill, Calvin H., assignor.)
- Heywood Brothers and Wakefield Company. (See Watkins and Brown, assignors.)
- Heywood, Fannie B., administratrix. (See Heywood, Henry H.)
- Heywood, Henry H., deceased; F. B. Heywood, administratrix, Atlanta, Ga. Device for climbing steel columns. No. 1,312,399; Aug. 5; v. 265; p. 102.
- Heywood, Vincent E., Worcester, Mass. Window-envelope. No. 1,304,877; May 27; v. 262; p. 553.
- Heywood, Vincent E., Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass. Envelope machinery. No. 1,308,354; July 1; v. 264; p. 63.
- Hi-Glo Sign Co. (See Smith, Frederick A., assignor.)
- Hlatt, Ernest B., Winterset, Iowa. Combined leveling and self-computing cross-section rod. No. 1,295,749; Feb. 25; v. 259; p. 733.
- Hibbard, Lloyd J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,298,712; Apr. 1; v. 261; p. 21.
- Hibbard, Louis R., assignor to J. B. Clover, Los Angeles, Cal. Faucet. No. 1,295,500; Feb. 25; v. 259; p. 675.
- Hibbert, Harold, Mount Vernon, N. Y., assignor to The Commercial Research Company. Purification of acetyl-salicylic acid. No. 1,321,307; Nov. 11; v. 268; p. 243.
- Hibbs, Cassell D., Fort Worth, Tex. Core for tire-casings. No. 1,300,391; Apr. 15; v. 261; p. 453.
- Hibbs, Cassell D., Fort Worth, Tex. Machine for buffing inner tubes and the like. No. 1,319,338; Oct. 21; v. 267; p. 407.
- Hibbs, Cassell D., Fort Worth, Tex. Fabric-stripping machine. No. 1,321,790; Nov. 11; v. 268; p. 334.
- Hibbs, Frank W., and T. M. Gunn, New London, Conn., assignors to Electric Boat Company. Testing-tank for submarines. No. 1,309,736; July 15; v. 264; p. 385.
- Hibbs, Nelson W., U. S. Navy, assignor to the Government of the United States. Soldering-iron apparatus. No. 1,295,750; Feb. 25; v. 259; p. 733.
- Hibler, William E., Honolulu, Hawaii. Attachment for corn-planters. No. 1,297,847; Mar. 18; v. 260; p. 514.
- Hibner, Frank, North Platte, Nebr. Can-opener. No. 1,301,128; Apr. 22; v. 261; p. 645.
- Hick, Harry J. (See Pollock and Hick.)
- Hick, Harry J., assignor to The McCaskey Register Company, Incorporated in 1914, Alliance, Ohio. Filing appliance. No. 1,291,881; Jan. 21; v. 258; p. 499.
- Hick, Harry J., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,293,773; Feb. 11; v. 259; p. 216.
- Hick, Harry J., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,299,573; Apr. 8; v. 261; p. 245.
- Hick, Harry J., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,299,724; Apr. 8; v. 261; p. 280.
- Hick, Harry J., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,299,725; Apr. 8; v. 261; p. 281.
- Hick, Harry J., assignor to The McCaskey Register Company, Alliance, Ohio. Combination-lock. No. 1,301,846; Apr. 29; v. 261; p. 815.
- Hickcox, Roy R., Baltimore, Md. Rotary drier. No. 1,319,077; Oct. 21; v. 267; p. 357.
- Hickey, James C. and O. J. Cantrelle, New Orleans, La. Truck. No. 1,297,164; Mar. 11; v. 260; p. 339.
- Hickey, John F., Everett, Mass. Truss. No. 1,316,614; Sept. 23; v. 266; p. 466.
- Hickey, John F., assignor of thirty per cent. to T. I. Hickey and thirty per cent. to L. W. Burmans, Fort Henry, N. Y. Hoisting-bucket. No. 1,314,328; Aug. 26; v. 265; p. 553.
- Hickey, Joseph A., Philadelphia, Pa., assignor of one-half to F. Bancroft, Merchantville, N. J. Abrading-disk. No. 1,290,990; Jan. 14; v. 258; p. 259.
- Hickey, Joseph A., Philadelphia, Pa., assignor of one-half to F. Bancroft, Merchantville, N. J. Machine for manufacturing abrading-disks. No. 1,291,513; Jan. 14; v. 258; p. 380.
- Hickey, Thomas L., et al. (See Hickey, John F., assignor.)
- Hickey, Thomas F., Shrewsbury, Mass. Leather-cutting machine. No. 1,319,219; Oct. 21; v. 267; p. 384.
- Hickling, Richard W. (See Sumner and Hickling.)
- Hicklingbottom, William, Toronto, Ontario, Canada. Composition of matter for preventing static electrical effects in printing. No. 1,314,191; Aug. 26; v. 265; p. 526.
- Hickling, Frederick G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,323,273; Dec. 2; v. 269; p. 9.
- Hickling, Frederick G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,324,819; Dec. 16; v. 269; p. 409.
- Hickman, Francis, assignor of one-half to Bound Brook Oil-Less Bearing Company, Bound Brook, N. J. Wheel-rim attachment. No. 1,304,878; May 27; v. 262; p. 553.
- Hickok Construction Co. (See Hull, George E., assignor.)
- Hicks, Elmer. (See Kirkpatrick, Robert S., assignor.)
- Hicks, George C., Jr., Connersville, Ind. Pump. No. 1,303,795; May 13; v. 262; p. 274.
- Hicks, George J., Saginaw, Mich. Dough-proofing machine. No. 1,290,193; Jan. 7; v. 258; p. 43.
- Hicks, Harold H., assignor to Donahue-Stratton Company, Milwaukee, Wis. Method and apparatus for bleaching grain. No. 1,324,048; Dec. 9; v. 269; p. 199.
- Hicks Improved Engine Brake Company. (See Hicks, James A., assignor.)
- Hicks, James A., assignor to Hicks Improved Engine Brake Company, Atlanta, Ga. Fluid-pressure-brake system. No. 1,306,665; June 10; v. 263; p. 301.
- Hicks, Linzy, assignor of one-half to G. Vansant, Omaha, Nebr. Wall-lining. No. 1,326,054; Dec. 23; v. 269; p. 655.
- Hicks, Patrick H., Statesville, N. C. Horse-collar. No. 1,316,891; Sept. 23; v. 266; p. 517.
- Hicks, Rex P., assignor to Hicks Tractor Company, Milwaukee, Wis. Power-transmission mechanism. No. 1,324,592; Dec. 9; v. 269; p. 304.
- Hicks, Richard W., Bronxville, assignor to Benson & Hedges, Inc., New York, N. Y. Container. No. 1,314,399; Aug. 26; v. 265; p. 567.
- Hicks, Thomas W., assignor to Scientific Farming Machinery Company, Minneapolis, Minn. Tiller. No. 1,320,469; Nov. 4; v. 268; p. 21.
- Hicks Tractor Company. (See Hicks, Rex P., assignor.)
- Hicks, William A., Chillicothe, Ill. Seed-planter. No. 1,291,882; Jan. 21; v. 258; p. 500.
- Hicks, William D., assignor of one-fourth to R. M. Dovie, Los Angeles, Calif. Automobile-engine starter. No. 1,298,947; Apr. 1; v. 261; p. 76.



- Hickson, Joseph, Mount Gilead, Ohio. Concrete pipe. No. 1,302,553; May 6; v. 262; p. 14.
- Hidden, Charles P., Brookline, assignor to The Lamson Company, Boston, Mass. Carrier-despatch apparatus. No. 1,311,647; July 29; v. 264; p. 801.
- Hidden, Charles P., assignor to Nitrogen Products Company, Providence, R. I. Hydrolyzing cyanid to ammonia. No. 1,312,116; Aug. 5; v. 265; p. 50.
- Hides, Machine for cutting. C. F. Klein. No. 1,306,261; June 10; v. 263; p. 227.
- Hieatzman, Arthur H., Baltimore, Md., assignor to U. S. Slicing Machine Company, Laporte, Ind. Attachment for meat-slicers. No. 1,293,774; Feb. 11; v. 259; p. 217.
- Hieber, John G. F., Spokane, Wash. Treating fruit-juices. No. 1,325,094; Dec. 16; v. 269; p. 459.
- Hiebert, Peter J., Oklahoma, Okla. Thermostatic valve. No. 1,323,593; Dec. 2; v. 269; p. 69.
- Hien, Phillip, Chicago, Ill. Shock-absorber. No. 1,291,514; Jan. 14; v. 258; p. 380.
- Hiergesell, Frederick, New York, N. Y. Burette. No. 1,314,265; Aug. 26; v. 265; p. 541.
- Hiering, William C., Newark, N. J. Collapsible tube. No. 1,290,991; Jan. 14; v. 258; p. 260.
- Higbee, Charlie D., assignor of one-half to E. W. Dickie, Dallas, Tex. Internal-combustion engine. No. 1,311,603; July 29; v. 264; p. 793.
- Higbee, George C., Tekoa, Wash. Air-brake for automobiles. No. 1,297,165; Mar. 11; v. 260; p. 340.
- Higbee, Jesse P., assignor of one-third to L. Stoesser and one-third to J. Sullivan, Louisville, Ky. Radiator for fireplaces. No. 1,297,964; Mar. 18; v. 260; p. 539.
- Higdon, Eddie O., and A. J. Coleman, Chicago, Ill. Portable beach dressing-room. No. 1,315,497; Sept. 9; v. 266; p. 197.
- Higginbotham, Robert D., San Francisco, Calif. Clutch. No. 1,300,965; Apr. 15; v. 261; p. 574.
- Higgins, Edward A. (See Hodapp, Henry, assignor.)
- Higgins, Eugene, assignor to Jackson Machine Tool Co., Jackson, Mich. Die-sinking machine. No. 1,310,656; July 22; v. 264; p. 584.
- Higgins, Eugene, assignor of one-half to D. G. Kimball, Jackson, Mich. Garage or storage building. No. 1,321,100; Nov. 11; v. 268; p. 203.
- Higgins, James F., assignor, by mesne assignments, to The Rogers-Higgins Co., Inc., New Orleans, La. Oil-heater. No. 1,301,262; Apr. 22; v. 261; p. 672.
- Higgins, Joseph E., Grand Island, Nebr. Nose-mounting for eyeglasses. No. 1,319,868; Oct. 28; v. 267; p. 531.
- Higgins, Joseph F., Brooklyn, N. Y. Pasting device. No. 1,320,550; Nov. 4; v. 268; p. 36.
- Higgins, Martin G., Dunmore, Pa. Pressure-brake system. No. 1,310,951; July 22; v. 264; p. 638.
- Higgins, Philip J., Philadelphia, Pa. Thread-cutting tool. No. 1,293,432; Feb. 4; v. 259; p. 107.
- Higgins, Richard L. (See Plattner, David E., assignor.)
- Higgins, William H. C., Jr., assignor, by mesne assignments, to Advance-Rumely Company, Laporte, Ind. Plow-lift. No. 1,300,392; Apr. 15; v. 261; p. 455.
- Higginson, James, New Bedford, assignor of one-half to A. S. Fuller, Newton, Mass. Stop-motion for textile-machines. No. 1,303,664; May 13; v. 262; p. 249.
- Higginson, Joseph and H. Arundel, Stockport, England. Liquid fuel supply system of internal-combustion engines. No. 1,299,941; Apr. 8; v. 261; p. 329.
- Higginson, Joseph, and H. Arundel, Stockport, England. Apparatus for raising liquids. No. 1,304,313; May 20; v. 262; p. 407.
- Higginson, Joseph, and H. Arundel, Stockport, England. Liquid-fuel-supply apparatus for internal-combustion engines. No. 1,306,762; June 17; v. 263; p. 351.
- Higginson, Joseph, and H. Arundel, Stockport, England. Liquid-fuel-supply system of internal-combustion engines. No. 1,311,695; July 29; v. 264; p. 810.
- Higgs, George N., and A. J. Job, London, England. Test-square. No. 1,321,038; Nov. 4; v. 268; p. 128.
- Higgs, Wallace J., Lehi, Utah. Nut-lock. No. 1,320,006; Oct. 28; v. 267; p. 556.
- High, Harry. (See Neidhart and High.)
- High, Luther W. (See Perryclear, William E., assignor.)
- High Speed Hammer Company, The. (See Leckinger, Philip H., assignor.)
- High-tension discharges. Obtaining of unidirectional. O. J. and L. Lodge. No. 1,307,742; June 24; v. 263; p. 563.
- High, William. (See Barsby and High.)
- Highland, Jacob B., assignor to Waterloo Gasoline Engine Company, Waterloo, Iowa. Friction-clutch. No. 1,291,883; Jan. 21; v. 258; p. 500.
- Highmark, Peter E., Duluth, Minn. Rotary internal-combustion engine. No. 1,291,884; Jan. 21; v. 258; p. 500.
- Hight, Bertha G. (See Hight, Leslie R. and B. G.)
- Hight, Leslie R. and B. G., Neodesha, Kans. Sad-iron handle. No. 1,298,210; Mar. 25; v. 260; p. 617.
- Highway Trailer Company. (See Menhall and Clement, assignors.)
- Higinbotham, Arthur O., assignor to Charles B. Foster and Company, Worcester, Mass. Motor-vehicle driving mechanism. No. 1,297,465; Mar. 18; v. 260; p. 432.
- Higley, John P., assignor of one-fourth to J. Ruggaber and one-fourth to G. Flannery, St. Louis, Mo. Piston-ring. No. 1,301,438; Apr. 22; v. 261; p. 706.
- Higley, Lyman O., Williston, N. D. Automatic door-actuating hinge. No. 1,300,267; Apr. 15; v. 261; p. 426.
- Higley, Walter C., Toledo, Ohio. Aeroplane. No. 1,305,466; June 3; v. 263; p. 45.
- Highway Trailer Company. (See Menhall and Clement, assignors.)
- Hilbish, John E., La Grange, assignor to Kellogg Switch-board and Supply Company, Chicago, Ill. Telephone system. No. 1,314,804; Sept. 2; v. 266; p. 62.
- Hilbish, John E., La Grange, assignor to Kellogg Switch-board and Supply Company, Chicago, Ill. Two-way trunk-circuits. No. 1,316,892; Sept. 23; v. 266; p. 517.
- Hild, Frederic W., Denver, Colo. Motor-vehicle. No. 1,292,774; Jan. 28; v. 258; p. 737.
- Hildebrand, Benjamin F., San Francisco, Calif. Sterilizer. No. 1,298,631; Mar. 25; v. 260; p. 706.
- Hildebrand, Edward P., Seattle, Wash. Metallic packing. No. 1,317,294; Sept. 30; v. 266; p. 630.
- Hildebrand, William R., Chicago, Ill. Metal-protected rubber heel. No. 1,307,737; June 24; v. 263; p. 562.
- Hildebrand, William R., Chicago, Ill. Rubber-heel protector. No. 1,326,503; Dec. 30; v. 269; p. 775.
- Hildreth, Henry A., Boston, assignor, by mesne assignments, to Clinton-Wright Wire Company, Worcester, Mass. Folding jar-rack. No. 1,317,443; Sept. 30; v. 266; p. 658.
- Hileman, Lem H. (See Hoffman and Hileman.)
- Hilgenberg, Carl G., Baltimore, Md. Bottle. No. 1,296,288; Mar. 4; v. 260; p. 107.
- Hilgenfeld, Samuel F., San Francisco, Calif. Bracket. No. 1,320,329; Oct. 28; v. 267; p. 616.
- Hilger, Adam. (See Twyman, Frank, assignor.)
- Hilger, George, Chicago, Ill. Valve. No. 1,315,020; Sept. 2; v. 266; p. 100.
- Hill, Agnes B., executrix. (See Hill, Arthur A.)
- Hill, Arthur A., deceased; A. B. Hill, executrix, New York, N. Y. Bread-toaster. No. 1,297,848; Mar. 18; v. 260; p. 514.
- Hill, Arthur J., Castlemaine, Victoria, Australia. Electric-circuit-closing device. No. 1,323,860; Dec. 2; v. 269; p. 119.
- Hill, Beulah C., Chicago, Ill. Curtain-fixture. No. 1,296,289; Mar. 4; v. 260; p. 107.
- Hill, Calvin H., Oak Park, Ill., assignor to Heywood Brothers and Wakefield Company, Gardner, Mass. Seat-hinge for articles of furniture. No. 1,290,557; Jan. 7; v. 258; p. 131.
- Hill, Charles H., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,323,765; Dec. 2; v. 269; p. 101.
- Hill, Charles K., assignor to The H. C. Tack Company, Cleveland, Ohio. Tack or nail. No. 1,325,721; Dec. 23; v. 269; p. 593.
- Hill, Charles S., Boston, Mass. Spliced sole and other articles. No. 1,326,264; Dec. 30; v. 269; p. 731.
- Hill, Claude H., Quincy, Ill. Wireless-controlled flying-torpedo. No. 1,304,314; May 20; v. 262; p. 408.
- Hill, Daniel L., et al. (See Scott, Harry R., assignor.)
- Hill, David, and J. A. Meroney, Sr., assignors to F. E. Tiscornia, San Francisco, Cal. Drier and evaporator. No. 1,296,519; Mar. 4; v. 260; p. 157.
- Hill, Earl M., Dayton, Ohio. Speed-regulator for graphophones. No. 1,325,673; Dec. 23; v. 269; p. 584.
- Hill, Earl V., Chicago, Ill. Ventilator for cavs. No. 1,312,177; Aug. 5; v. 265; p. 61.
- Hill, Elijah R., New Albany, Miss. Flush-tank valve. No. 1,294,908; Feb. 18; v. 259; p. 517.
- Hill, Elwin K., Cleveland, Ohio. Tire-deflating tool. No. 1,319,280; Oct. 21; v. 267; p. 396.
- Hill, Ernest N., assignor to Hill Pump Company, Anderson, Ind. Rotary pump. No. 1,314,647; Sept. 2; v. 266; p. 33.
- Hill, Frank O. (See Fink and Hill.)
- Hill, Frank R., Keeler, assignor to W. W. Watterson, Bishop, Calif. Furnace. No. 1,317,295; Sept. 30; v. 266; p. 630.
- Hill, George H., deceased; H. T. Hill, administratrix, Schenectady, N. Y., assignor to General Electric Company. Control for electric heating devices. No. 1,306,542; June 10; v. 263; p. 278.
- Hill, George R. (See Rook, William H., Jr., assignor.)
- Hill, George S., Stratford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. No. 1,291,885; Jan. 21; v. 258; p. 501.
- Hill, George S., Stratford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,309,575; July 8; v. 264; p. 318.
- Hill, George S., Stratford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,309,576; July 8; v. 264; p. 318.
- Hill, Harriet, New York, N. Y., assignor to Paper Utilities Corporation. Paper or similar cup. No. 1,310,698; July 22; v. 264; p. 592.



*Alphabetical list of patentees—Continued.*

- Hill, Harriet, New York, N. Y., assignor to Paper Utilities Corporation. Paper-vessel-making machinery. No. 1,314,192; Aug. 26; v. 265; p. 526.
- Hill-Harris Company. (See Harris, Alfred W., assignor.)
- Hill, Harry M., St. Louis, Mo. Motion-picture-projecting machine. No. 1,315,224; Sept. 9; v. 266; p. 147.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,321,440; Nov. 11; v. 268; p. 269.
- Hill, Harry W., E. D. Tillyer, and H. H. Styll, assignors to American Optical Company, Southbridge, Mass. Ophthalmic lens. No. 1,315,667; Sept. 9; v. 266; p. 226.
- Hill, Hazel T., administratrix. (See Hill, George H.)
- Hill, Herbert M., New York, N. Y. Paper-cup machine. No. 1,293,775; Feb. 11; v. 259; p. 217.
- Hill, Herbert M., New York, N. Y., assignor to Paper Utilities Corporation. Die. No. 1,310,697; July 22; v. 264; p. 592.
- Hill, Homer A., Lebanon, Tenn. Flying-machine. No. 1,308,632; July 1; v. 264; p. 114.
- Hill, Howard H., Montclair, N. J. Detachable handle. No. 1,300,836; Apr. 15; v. 261; p. 547.
- Hill, Howard H., assignor of one-half to M. Maybury, Montclair, N. J. Brush-suspending device. No. 1,312,178; Aug. 5; v. 265; p. 61.
- Hill, Iver G., Brooklyn, assignor to Speed Key Mfg. Company, Inc., New York, N. Y. Type-writer key. No. 1,324,964; Dec. 16; v. 269; p. 435.
- Hill, Jackson J. (See Lyon and Hill.)
- Hill, James F., Billings, Mont. Running-gear for vehicles. No. 1,297,166; Mar. 11; v. 260; p. 340.
- Hill, Joe H., assignor of one-third to J. S. Inlow, Oklahoma, Okla. Lock for automobiles. No. 1,314,329; Aug. 26; v. 268; p. 553.
- Hill, John, Worcester, Mass. Stock-releasing device. No. 1,307,355; June 24; v. 263; p. 493.
- Hill, John L., Texas City, Tex. Spark-plug. No. 1,314,961; Sept. 2; v. 266; p. 89.
- Hill, John L., Seattle, Wash. Vehicle-spring. No. 1,322,440; Nov. 18; v. 268; p. 507.
- Hill, Joseph, Windom, Minn. Aeroplane-bomb. No. 1,302,554; May 6; v. 262; p. 14.
- Hill, Joseph B., Evans Mills, N. Y. Clothes-line support. No. 1,301,263; Apr. 22; v. 261; p. 672.
- Hill, Leroy W., Wichita Falls, Tex. Card-holder. No. 1,296,390; Mar. 4; v. 260; p. 130.
- Hill, Lewis C., assignor to Packard Motor Car Company, Detroit, Mich. Wind-shield and wiper construction. No. 1,325,017; Dec. 16; v. 269; p. 444.
- Hill, Myron F., New York, N. Y., assignor of one-half to E. E. Clement, Washington, D. C. Telephone-exchange system and apparatus therefor. No. 1,322,170; Nov. 18; v. 268; p. 455.
- Hill, Norman N., assignor to The N. N. Hill Brass Co., East Hampton, Conn. Toy. No. 1,301,439; Apr. 22; v. 261; p. 706.
- Hill, Perley J., Chatham, N. Y. Sawing-carriage. No. 1,317,132; Sept. 23; v. 266; p. 563.
- Hill Pump Company. (See Hill, Ernest N., assignor.)
- Hill Pump Valve Company. (See Reich, Ernest, assignor.)
- Hill Pump Valve Company, The. (See Heller and Reich, assignors.)
- Hill, Raymond T., Detroit, Mich. Screen-door catch. No. 1,291,886; Jan. 21; v. 258; p. 501.
- Hill, Roy L., and A. J. Strane, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Explosive mixture. No. 1,299,942; Apr. 8; v. 261; p. 329.
- Hill, Roy L., and A. J. Strane, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Explosive compound. No. 1,307,495; June 24; v. 263; p. 519.
- Hill, Thomas, New York, N. Y. Hose-clamp. No. 1,309,476; July 8; v. 264; p. 299.
- Hill, Wakeman B., Fairfield, Conn. Automobile-lock. No. 1,293,095; Feb. 4; v. 259; p. 29.
- Hill, Walter H., Columbus, Ohio. Finger-exercising device. No. 1,301,560; Apr. 22; v. 261; p. 729.
- Hill, William K., San Francisco, Cal. Projecting-screen. No. 1,293,433; Feb. 4; v. 259; p. 107.
- Hill, William P. (See Butts, Frederick H., assignor.)
- Hill, William P., St. Louis, Mo. Burner-tip. No. 1,304,045; May 20; v. 262; p. 357.
- Hill, Willoughby F., New York, N. Y. Paper-vessel package. No. 1,310,699; July 22; v. 264; p. 592.
- Hilliard, Frederic W., Tottenville, N. Y., assignor of one-half to M. R. Hillard, Middlebury, Conn. Type-writing machine. No. 1,296,957; Mar. 11; v. 260; p. 294.
- Hilliard, Mary R. (See Hillard, Frederic W., assignor.)
- Hille, Henry W., New Orleans, La. Ironing-table. No. 1,322,441; Nov. 18; v. 268; p. 507.
- Hillenbrand, Louis J., Rutherford, N. J. Clinical thermometer. No. 1,321,743; Nov. 11; v. 268; p. 325.
- Hiller, George A., East Rochester, assignor to K. Gleason, Pittsford, N. Y. Draft-bar. No. 1,313,381; Aug. 19; v. 265; p. 339.
- Hiller, George A., East Rochester, assignor to K. Gleason, Pittsford, N. Y. Draft-gear for trailers. No. 1,313,382; Aug. 19; v. 265; p. 339.
- Hiller, Joseph L., Mattapoisett, Mass. Tailings-deflector for coal-breakers. No. 1,322,568; Nov. 25; v. 268; p. 582.
- Hiller, Joseph L., Mattapoisett, Mass., assignor to Pennsylvania Crusher Company, New York, N. Y. Coal breaker and cleaner. No. 1,322,567; Nov. 25; v. 268; p. 582.
- Hillestad, Ben R., Kendall, Wis. Electric igniter-collar. No. 1,323,274; Dec. 2; v. 269; p. 10.
- Hilliard, Harry D. F., Kansas City, Kans., assignor to F. N. Winslow, Carmen, Okla. Auxiliary leaf-spring for motor-vehicles. No. 1,297,167; Mar. 11; v. 260; p. 340.
- Hillin, Harry C., El Paso, Tex. Adjustable spring-clamp. No. 1,303,557; May 13; v. 262; p. 230.
- Hillinger, John, Chicago, Ill. Fountain-pen attachment. No. 1,311,516; July 29; v. 264; p. 777.
- Hillman, Edward D., Larchmont, N. Y., assignor to B. A. Hegeman, Jr., North Plainfield, N. J. Hopper-car. No. 1,308,073; July 1; v. 264; p. 12.
- Hillman, Edward D., Larchmont, N. Y., assignor to B. A. Hegeman, Jr., North Plainfield, N. J. Hopper-car. No. 1,308,421; July 1; v. 264; p. 75.
- Hillman, Leroy T., Watertown, Mass. Firearm. No. 1,293,776; Feb. 11; v. 259; p. 217.
- Hillman, Otto. (See Davidson and Hillman.)
- Hillman, Victor E., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Connecting-rod. No. 1,323,391; Dec. 2; v. 268; p. 32.
- Hills Brothers Company, The. (See Eastman and Gentel, assignors.)
- Hills, Harry B., Riverton, N. J., assignor to Marine Decking & Supply Co., Philadelphia, Pa. Deck construction. No. 1,292,466; Jan. 28; v. 258; p. 663.
- Hills, Harry B., Riverton, N. J., assignor to Steward Davit and Equipment Corporation, New York, N. Y. Boat-launching carriage. No. 1,311,446; July 29; v. 264; p. 764.
- Hills, Henry A., Grand Rapids, Mich. Upright multi-stage filter. No. 1,294,463; Feb. 18; v. 259; p. 414.
- Hills, Leon B., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Storage-battery grid. No. 1,303,478; May 13; v. 262; p. 215.
- Hills, Richard C., assignor of one-half to O. Newell, Denver, Colo. Extracting alkalis from silicates. No. 1,321,632; Nov. 11; v. 268; p. 304.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Co., Torrington, Conn. Agitating-machine. No. 1,302,923; May 6; v. 262; p. 85.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Co., Torrington, Conn. Bracket for curtain-rods. No. 1,320,007; Oct. 28; v. 267; p. 556.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Co., Torrington, Conn. Curtain-fixture. No. 1,324,450; Dec. 9; v. 269; p. 277.
- Hilyer, Ernest E., Port Richmond, N. Y. Headlight-lens. No. 1,298,342; Mar. 25; v. 260; p. 644.
- Hilpert, Meier G., Harrisburg, Pa. Pocket-humidor. No. 1,305,467; June 3; v. 263; p. 45.
- Hilpert, Meier G., Harrisburg, assignor to Bethlehem Steel Bridge Corporation, Bethlehem, Pa. Single turntable construction. No. 1,324,820; Dec. 16; v. 269; p. 409.
- Hilpert, Meier G., Harrisburg, assignor to Bethlehem Steel Bridge Corporation, Bethlehem, Pa. Turn-table center. No. 1,324,821; Dec. 16; v. 269; p. 409.
- Hilpert, Willis S. (See Sweetland, Manning, and Hilpert.)
- Hilton, Clement E., West Collingswood, N. J. Resilient arch-support. No. 1,316,156; Sept. 16; v. 266; p. 331.
- Hilton, George A., assignor of one-half to L. E. Hecht, Irvington, N. J. Hanger for brushes. No. 1,308,074; July 1; v. 264; p. 13.
- Hilton, Henry, Victoria, British Columbia, Canada. Saw setting and filing tool. No. 1,297,565; Mar. 18; v. 260; p. 453.
- Hilton, John, Wood Side, Beaconsfield, England. Apparatus for sowing seeds. No. 1,317,133; Sept. 23; v. 266; p. 563.
- Hilton, Robert W., Smethport, Pa. Glass apparatus. No. 1,309,199; July 8; v. 264; p. 247.
- Hilton, Thomas, Hammersmith, London, England. Bedstead, settee, and the like. No. 1,312,443; Aug. 5; v. 265; p. 111.
- Hiltz, George S., New York, N. Y. Inking mechanism for printing-telegraph receivers. No. 1,313,295; Aug. 19; v. 265; p. 323.
- Himes Cohen Tractor Co. (See Himes, Walter H., assignor.)
- Himes, Orville J., Oswego, N. Y. Umbrella. No. 1,310,481; July 22; v. 264; p. 551.
- Himes, Walter H., assignor to Himes Cohen Tractor Co., Grove City, Pa. Tractor-plow. No. 1,316,235; Sept. 16; v. 266; p. 346.
- Himmel, Solomon. (See Holmes, William T., assignor.)
- Himmel, Solomon, Baltimore, Md. Display-rack. No. 1,300,167; Apr. 8; v. 261; p. 378.
- Hinchley, John W., London, and C. S. Drew, Harper, Stockton-upon-Tees, England. Expressing liquid from materials. No. 1,311,070; July 22; v. 264; p. 661.
- Hinchliffe, George H., Boston, Mass. Internal-combustion engine. No. 1,297,350; Mar. 18; v. 260; p. 408.
- Hinchman, Charles C., Pottstown, Pa. Floor-joint for water-closet bowls. No. 1,302,163; Apr. 29; v. 261; p. 875.



- Hinck, Henry M., assignor to C. B. Hart, Brooklyn, N. Y. Mold for the formation of candied sticks. No. 1,312,325; Aug. 5; v. 265; p. 88.
- Hinckley, Arthur T., Niagara Falls, N. Y., assignor, by mesne assignments, to National Carbon Company, Inc. Baked carbon article. No. 1,307,738; June 24; v. 263; p. 562.
- Hinckley, Arthur T., Niagara Falls, N. Y., assignor to National Carbon Company, Inc. Graphitized electrode and making the same. No. 1,317,497; Sept. 30; v. 266; p. 668.
- Hinckley, Arthur T., Niagara Falls, N. Y., assignor to National Carbon Company, Inc. Carbonaceous material and making same. No. 1,317,498; Sept. 30; v. 266; p. 668.
- Hinckley, Frank C., assignor to American Graphophone Company, Bridgeport, Conn. Recording attachment. No. 1,291,515; Jan. 14; v. 258; p. 381.
- Hinckley, Frank C., assignor to American Graphophone Company, Bridgeport, Conn. Mandrel for sound recording or reproducing machines. No. 1,291,516; Jan. 14; v. 258; p. 381.
- Hinckley, Livingston S., Newark, N. J. Lacing-terminal. No. 1,314,805; Sept. 2; v. 266; p. 62.
- Hindahl, David, Chicago, Ill. Railway-car-door-control mechanism. No. 1,308,422; July 1; v. 264; p. 76.
- Hinde, Frank, and W. H. Kewell, assignors of one-third to S. Rutledge, Early, Iowa. Auxiliary cooling system for internal-combustion engines. No. 1,299,467; Apr. 8; v. 261; p. 222.
- Hinderman, Carl, Philadelphia, Pa. Turnbuckle. No. 1,305,359; June 3; v. 263; p. 24.
- Hindle, Bessie, *et al.* (See Light, Claus H., assignor.)
- Hindman, Isaiah E., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,316,575; Sept. 23; v. 266; p. 458.
- Hindman, Isaiah E., Bellevue, Pa., assignor to The Duff Manufacturing Company, Lathe. No. 1,323,633; Dec. 2; v. 269; p. 76.
- Hindmarsh, Percy J., Lincoln, Nebr. Fire-extinguisher. No. 1,309,624; July 15; v. 264; p. 364.
- Hinds, Calvin M., *et al.* (See Goode, Thomas A., assignor.)
- Hineman, Jacob, Syracuse, N. Y. Automatic direction-indicator. No. 1,321,526; Nov. 11; v. 268; p. 284.
- Hiner, Hugh M., Fort Smith, Ark. Potassium-compound-recovering apparatus. No. 1,290,194; Jan. 7; v. 258; p. 43.
- Hines, Bascom L., and M. G. Johnson, Mount Pleasant, Tex. Box-cabinet. No. 1,293,434; Feb. 4; v. 259; p. 107.
- Hines, C. C., *et al.* (See Velo, Anthony, assignor.)
- Hines, George H. (See Downer, Basil G., assignor.)
- Hines, Harry, Lancaster, S. C. Spring-wheel. No. 1,295,316; Feb. 25; v. 259; p. 632.
- Hines, John J., Halifax, Nova Scotia, Canada. Boiler-alarm. No. 1,295,501; Feb. 25; v. 259; p. 676.
- Hines, M. A., *et al.* (See Dodge, James, assignor.)
- Hines, Martin, Brooklyn, N. Y. Emergency-tire. No. 1,299,342; Apr. 1; v. 261; p. 165.
- Hines, Roy A., Columbia, Mo. Planting attachment for cultivators. No. 1,306,900; June 17; v. 263; p. 376.
- Hines, William J., New Britain, assignor to The Fuller Brush Company, Hartford, Conn. Tooth-brush. No. 1,296,186; Mar. 4; v. 260; p. 85.
- Hinkens, Arnold, Chicago, Ill. Bank-vault. No. 1,311,399; July 29; v. 264; p. 755.
- Hinkle, Jonathan G. E., Bethany, Mo. Anesthetic-machine. No. 1,312,117; Aug. 5; v. 265; p. 50.
- Hinkle, Joseph R., *et al.* (See Lamar, Alexis L., assignor.)
- Hinkle, Matison E., Winters, Tex. Saw-gage. No. 1,297,689; Mar. 18; v. 260; p. 480.
- Hinkley, Carl C., Detroit, Mich., assignor, by mesne assignments, to Chalmers Motor Corporation, New York, N. Y. Balancing crank-shafts and apparatus for the same. No. 1,321,308; Nov. 11; v. 268; p. 243.
- Hinkly, Frank L., Pittsburgh, Pa. Rectangular museum-jar. No. 1,307,356; June 24; v. 263; p. 493.
- Hinks, Leonard S., Knowle, England. Internal-combustion engine. No. 1,294,102; Feb. 11; v. 259; p. 293.
- Hinman, John H., assignor, by mesne assignments, to Heine Safety Boiler Company, Phoenixville, Pa. Super-heater construction for boilers. No. 1,304,480; May 20; v. 262; p. 441.
- Hinman, Rollie L., Elkhart, Ill. Automatic chimney-sweep. No. 1,305,543; June 3; v. 263; p. 59.
- Hinnershitz, Charles W., Reading, Pa. Cable-ring compressor. No. 1,321,208; Nov. 11; v. 268; p. 224.
- Hino, Kumazo, Tokyo, Japan. Cycle-car. No. 1,306,483; June 10; v. 263; p. 267.
- Hino, Seth M., Oilton, Okla. Adjustable hanger. No. 1,307,669; June 24; v. 263; p. 549.
- Hinricher, Gerhard A., Kansas City, Mo. Dumping device. No. 1,291,517; Jan. 14; v. 258; p. 381.
- Hinrichsen, Edward E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,305,981; June 3; v. 263; p. 142.
- Hirsch, Johannes, Spandau, near Berlin, assignor to Siemens Schuckert-Werke G. m. b. H., Berlin, Germany. Rotary pump or blower. No. 1,304,046; May 20; v. 262; p. 358.
- Hinsdale, George G., Somerville, Mass. Yielding unit. No. 1,317,788; Oct. 7; v. 267; p. 24.
- Hinsdale, Winfield E., Trenton, N. J. Lavatory. No. 1,300,268; Apr. 15; v. 261; p. 426.
- Hinsdale, Winfield E., assignor to The Trenton Potteries Company, Trenton, N. J. Flush-tank mechanism. No. 1,296,520; Mar. 4; v. 260; p. 157.
- Hinsdill, Charles A., Troy, N. Y. Adjustable fixture for electric lamps. No. 1,305,285; June 3; v. 263; p. 11.
- Hinton, George W., assignor of one-third to E. C. Renaud and one-third to R. R. Poteet, St. Joseph, Mo. Gun-pointing and automatic gun-discharging mechanism, combined. No. 1,309,091; July 8; v. 264; p. 228.
- Hinton, U. S. G. (See Wagniere, August L., assignor.)
- Hinton, Vachel O., Bartlesville, Okla. Hat. No. 1,303,796; May 13; v. 262; p. 274.
- Hintz, Henry R., Detroit, Mich. Key-retainer. No. 1,297,168; Mar. 11; v. 260; p. 340.
- Hinz, Leo, Perth Amboy, N. J., and R. Koch, New York, N. Y. Flying-machine. No. 1,295,751; Feb. 25; v. 259; p. 733.
- Hinze, William J., C. D. Katterheirrich, and S. B. Katterheirrich, New Knoxville, Ohio. Bracket. No. 1,326,731; Dec. 30; v. 269; p. 819.
- Hinzke, Albert G., Toronto, Ontario, Canada, assignor, by mesne assignments, to A. G. McIntyre, New York, N. Y. Manufacture of bisulfite liquors. No. 1,303,314; May 13; v. 262; p. 186.
- Hinzke, Albert G., Toronto, Ontario, Canada, assignor, by mesne assignments, to A. G. McIntyre, New York, N. Y. Bleaching apparatus. No. 1,303,315; May 13; v. 262; p. 186.
- Hipp, J. C. (See Dalitz, Harry, assignor.)
- Hipple, Oliver. (See Lohr and Hipple.)
- Hipple, Oliver P., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. No. 1,323,275; Dec. 2; v. 269; p. 10.
- Hipwell, Harry T., Pittsburgh, Pa. Battery-cell. No. 1,303,558; May 13; v. 262; p. 230.
- Hipwell, Harry T., Pittsburgh, Pa. Measuring-can. No. 1,315,724; Sept. 9; v. 266; p. 237.
- Hipwood, George, Boston, Mass. Arm-rest attachment for crutches. No. 1,298,211; Mar. 25; v. 260; p. 617.
- Hipwood, George, Boston, Mass. Crutch. No. 1,298,713; Apr. 1; v. 261; p. 22.
- Hipwood, George, Boston, Mass. Arm-rest attachment for crutches. No. 1,298,714; Apr. 1; v. 261; p. 22.
- Hipwood, George, New York, N. Y. Crutch. No. 1,314,193; Aug. 26; v. 265; p. 526.
- Hirakawa, Harue, San Diego, Calif. String-cutting ring. No. 1,309,325; July 8; v. 264; p. 271.
- Hirlinger, August, Cincinnati, Ohio. Folding crate. No. 1,306,338; June 10; v. 263; p. 241.
- Hiro, Tsuchitaro. (See Horikawa, Shibata, and Hiro.)
- Hirsch, Augusta. (See Hirsch, Carl F., assignor.)
- Hirsch, Carl F., assignor to A. Hirsch, Philadelphia, Pa. Float control for oil-tanks. No. 1,294,265; Feb. 11; v. 259; p. 332.
- Hirsch, Harry. (See Hirsch, Lester S. and H.)
- Hirsch, Herman, San Antonio, Tex. Cattle and poultry food and producing same. No. 1,291,518; Jan. 14; v. 258; p. 381.
- Hirsch, Joseph H. (See Borbauer, Lucien, assignor.)
- Hirsch, Lester S. and H., New York, N. Y. Liquid-dispenser. No. 1,296,391; Mar. 4; v. 260; p. 130.
- Hirsch, Max, Philadelphia, Pa. Spectacle-case. No. 1,318,998; Oct. 14; v. 267; p. 317.
- Hirsch, Morris A., Cleveland, Ohio. Safety-envelop. No. 1,322,569; Nov. 25; v. 268; p. 583.
- Hirsch, Nicholas E., San Francisco, Calif. Uncoupling-lever. No. 1,303,316; May 13; v. 262; p. 186.
- Hirsch, Paul W., Redford, Mich. Chair. No. 1,324,503; Dec. 9; v. 269; p. 287.
- Hirsch, Samuel, New York, N. Y. Snap. No. 1,326,055; Dec. 23; v. 269; p. 655.
- Hirschhorn, Benjamin, assignor to National Urn Bag Manufacturing Co., New York, N. Y. Tea-cartridge. No. 1,310,796; July 22; v. 264; p. 611.
- Hirschkind, Wilhelm. (See Watson and Hirschkind.)
- Hirschman, William F., Buffalo, N. Y. Shoe-polishing cabinet. No. 1,320,392; Nov. 4; v. 268; p. 7.
- Hirschmann, Joseph, assignor of one-half to C. R. Allen, Charleston, S. C. Check for picker-sticks of looms. No. 1,323,055; Nov. 25; v. 268; p. 674.
- Hirschthal, Meyer, assignor of one-third to F. D. Hyde, New York, N. Y. Method and apparatus for providing concrete structures. No. 1,301,561; Apr. 22; v. 261; p. 729.
- Hirsh, Allan M. (See Mitchell, Bartram, and Hirsh.)
- Hirshbein, Helen, New York, N. Y. Compound box or container. No. 1,318,999; Oct. 14; v. 267; p. 317.
- Hirshfield, Morris, New York, N. Y. Resilient tread for shoes. No. 1,296,802; Mar. 11; v. 260; p. 258.
- Hirshstein, Joseph, St. Louis, Mo. Coupling. No. 1,304,979; May 27; v. 262; p. 572.
- Hirshstein, Joseph, St. Louis, Mo. Coupling. No. 1,304,980; May 27; v. 262; p. 572.
- Hirst, Franklin G., Philadelphia, Pa. Grease-cup. No. 1,318,667; Oct. 14; v. 267; p. 253.
- Hirst, Franklin G., Philadelphia, Pa. Grease-cup. No. 1,318,668; Oct. 14; v. 267; p. 254.



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- Hirst, Franklin G., Philadelphia, Pa. Grease-cup. No. 1,318,669; Oct. 14; v. 267; p. 254.
- Hirst, James, Melrose, Mass., assignor to Charnack Manufacturing Company, Pawtucket, R. I. Warp-delivering means for looms. No. 1,312,847; Aug. 12; v. 265; p. 219.
- Hirst-Roger Company, The. (See Browning, Andrew, assignor.)
- Hirt, Louis J., Yonkers, N. Y. Turbine construction. No. 1,314,806; Sept. 2; v. 266; p. 62.
- Hitch, Harold C., Cleveland, Ohio, assignor to R. M. Hitch, Chicago, Ill. Container. No. 1,320,858; Nov. 4; v. 268; p. 94.
- Hitch, Rufus M. (See Hitch, Harold C., assignor.)
- Hitchcock, Albert W., Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Combined fire-alarm and watchman's service signal system. No. 1,295,502; Feb. 25; v. 259; p. 676.
- Hitchcock Experiment Company. (See Hitchcock, Halbert K., assignor.)
- Hitchcock, Halbert K., Pittsburgh, Pa. Method of and apparatus for applying finely-divided material to grinding and smoothing mechanism. No. 1,311,517; July 29; v. 264; p. 777.
- Hitchcock, Halbert K., Pittsburgh, Pa. Method of and apparatus for applying finely-divided material to grinding and smoothing mechanism. No. 1,311,518; July 29; v. 264; p. 778.
- Hitchcock, Halbert K., Pittsburgh, Pa. Method of and apparatus for applying finely-divided material to grinding and smoothing mechanism. No. 1,311,519; July 29; v. 264; p. 778.
- Hitchcock, Halbert K., Pittsburgh, Pa. Method and apparatus for grading finely-divided material. No. 1,319,771; Oct. 28; v. 267; p. 512.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Vacuum lifting device. No. 1,294,103; Feb. 11; v. 259; p. 294.
- Hitchcock, Halbert K., assignor of one-half to J. F. Johnson, Pittsburgh, Pa. Door-holding device. No. 1,305,212; May 27; v. 262; p. 617.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor of one-half to Hitchcock Experiment Company. Apparatus for the manufacture of plate-glass. No. 1,307,357; June 24; v. 263; p. 493.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-drawing apparatus. No. 1,309,942; July 15; v. 264; p. 423.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor, by mesne assignments, of one-half to Hitchcock Experiment Company. Glass-drawing apparatus. No. 1,324,965; Dec. 16; v. 269; p. 435.
- Hitchcock, Halbert K., Pittsburgh, Pa., and W. J. Go-lightly, Kokomo, Ind., assignors to Pittsburgh Plate Glass Company. Vacuum lifting apparatus. No. 1,296,079; Mar. 4; v. 260; p. 60.
- Hitchcock, Joseph F. (See Hitchcock, William F. and J. F.)
- Hitchcock, Otto G., assignor to Hays Manufacturing Co., Erie, Pa. Compression stop and waste cock. No. 1,310,838; July 15; v. 264; p. 494.
- Hitchcock, Robert B. (See Underwood, Lawrence H., assignor.)
- Hitchcock, William F. and J. F., Rochester, N. Y.; said J. F. Hitchcock assignor to said William F. Hitchcock. Sound-reproducing machine. No. 1,295,164; Feb. 25; v. 259; p. 598.
- Hitchings, Samuel, South Pasadena, Calif. Polishing apparatus for tin or sheet mills. No. 1,301,440; Apr. 22; v. 261; p. 707.
- Hite, Charles E., Philadelphia, Pa., assignor, by mesne assignments, to American Briquet Company, Briquet and manufacturing the same. No. 1,290,992; Jan. 14; v. 258; p. 260.
- Hitner, Harry F., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Device for splitting glass. No. 1,296,661; Mar. 11; v. 260; p. 226.
- Hitt, Maurice V., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing pyroxylin bodies. No. 1,321,633; Nov. 11; v. 268; p. 304.
- Hitt, Maurice V., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Solvent for pyroxylin bodies. No. 1,321,634; Nov. 11; v. 268; p. 305.
- Hitze, Edward C., assignor to Edward Valve and Manufacturing Company, Chicago, Ill. Relief-valve. No. 1,321,527; Nov. 11; v. 268; p. 284.
- Hively, Ossian, and J. Kloos, assignors to The Morgan Engineering Company, Alliance, Ohio. Hoisting mechanism. No. 1,315,124; Sept. 2; v. 266; p. 118.
- Hives, Ernest W. (See Royce and Hives.)
- Hixson, Calvin D., Hiawatha, Kans. Coop. No. 1,313,691; Aug. 19; v. 265; p. 397.
- Hjorth, David, assignor to The General Machine and Manufacturing Company, Bridgeport, Conn. Electric-wire-outlet box. No. 1,309,625; July 15; v. 264; p. 364.
- Hjorth, Henrik J., Woburn, Mass. Grinding attachment. No. 1,293,435; Feb. 4; v. 259; p. 107.
- Hoag, Frank J., Cortland, N. Y., and R. M. Smith, Washington, D. C.; said Smith assignor to said Hoag. Manifold-heater for internal-combustion engines. No. 1,303,559; May 13; v. 262; p. 230.
- Hoag, Norman J., Skaneateles, N. Y. Combined tool. No. 1,318,079; Oct. 7; v. 267; p. 79.
- Hoag, William H. (See Campbell and Hoag.)
- Hoag, Willis M., Kirwin, Kans. Mail-box support. No. 1,299,343; Apr. 1; v. 261; p. 165.
- Hoagland, Frank O., Bridgeport, Conn. Milling-cutter. No. 1,326,865; Dec. 30; v. 269; p. 844.
- Hoagland, Frank O., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Drill. No. 1,304,981; May 27; v. 262; p. 573.
- Hoagland, Frank O., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Limit-gage. No. 1,311,349; July 29; v. 264; p. 746.
- Hoagland, Frank O., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine and method. No. 1,323,276; Dec. 2; v. 269; p. 10.
- Hoagland, Frank O., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine. No. 1,323,277; Dec. 2; v. 269; p. 10.
- Hoagland, Frank O., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Barrel-reamer. No. 1,323,278; Dec. 2; v. 269; p. 10.
- Hoagland, Frank O., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Barrel-straightening mechanism. No. 1,323,279; Dec. 2; v. 269; p. 10.
- Hoagland, Frank O., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Limit-gage. No. 1,323,280; Dec. 2; v. 269; p. 11.
- Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Shaft-coupling. No. 1,325,639; Dec. 23; v. 269; p. 577.
- Hol, George W., Waltham, Mass. Drawn-metal shell with reinforced end and making the same. No. 1,323,532; Dec. 2; v. 269; p. 58.
- Hoar, John A., Oskaloosa, Iowa. Valve construction for water distribution. No. 1,317,789; Oct. 7; v. 267; p. 24.
- Hoar, Samuel, Virginia, Minn. Mechanical shovel. No. 1,322,570; Nov. 25; v. 268; p. 583.
- Horse, Henry W. (See Shirlow and Horse.)
- Hoban, Anthony, et al. (See Zartman, Charles M., assignor.)
- Hoban, Edward F., Madison, N. J. Heating device for vehicle steering-wheels. No. 1,304,047; May 20; v. 262; p. 358.
- Hobart, Augustus A. (See Bates and Hobart.)
- Hobart, Cleveland W., Brooksville, Fla. Oar. No. 1,324,397; Dec. 9; v. 269; p. 266.
- Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,304,181; May 20; v. 262; p. 382.
- Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Method of and means for controlling induction-motors. No. 1,315,771; Sept. 9; v. 266; p. 245.
- Hobart M. Cable Company, The. (See Cooper, Simon, assignor.)
- Hobart Manufacturing Company, The. (See Johnston, Herbert L., assignor.)
- Hobbs, Albert E., Chicago, Ill. Cleaning device. No. 1,303,201; May 6; v. 262; p. 138.
- Hobbs, Elbert R., Buhl, Idaho. Rotary valve-gear. No. 1,295,165; Feb. 25; v. 259; p. 598.
- Hobbs, John C., et al. (See Duryea, William C., assignor.)
- Hobbs, Robert F., Great Neck, N. Y. Toilet article. No. 1,326,265; Dec. 30; v. 269; p. 731.
- Hobbs, Robert F., Great Neck, N. Y. Toilet article. (Re-issue.) No. 14,710; Aug. 19; v. 265; p. 432.
- Hobbs, Samuel T. (See Lee and Hobbs.)
- Hoben, Edward F., Muskogee, Okla. Spike-puller. No. 1,300,952; Apr. 15; v. 261; p. 571.
- Hoberg, Frank H., Green Bay, Wis. Paper-towel container. No. 1,319,281; Oct. 21; v. 267; p. 396.
- Hobley, Frederick R. (See Hooper and Hobley.)
- Hobson, Charles E., and J. Vannoy, Fremont, Iowa. Lock for doors and the like. No. 1,299,726; Apr. 8; v. 261; p. 281.
- Hobson, Jay G., Martinsville, Ind. Metal-grinding machine. No. 1,320,859; Nov. 4; v. 268; p. 94.
- Hobson & Motzer Co., The. (See Sattler, Henry W., assignor.)
- Hobson, Ota O., assignor of one-half to W. E. Fry, Vinton, Iowa. Resilient wheel. No. 1,323,235; Nov. 25; v. 268; p. 709.
- Hobson, Thomas J., Birmingham, England. Divisible wheel-rim for pneumatic tires. No. 1,299,943; Apr. 8; v. 261; p. 329.
- Hoch, Otto M. (See Seymour and Hoch.)
- Hoch, Otto M., assignor to M. D. Knowlton Company, Rochester, N. Y. Sheet-trip. No. 1,296,803; Mar. 11; v. 260; p. 258.
- Hoch, Otto M., assignor to M. D. Knowlton Company, Rochester, N. Y. Shear mechanism. No. 1,321,039; Nov. 4; v. 268; p. 129.
- Hochmuth, Richard. (See Matheus, Karl, assignor.)
- Hochstadter, Irving. (See Axelrad and Hochstadter.)
- Hochstein, Luis B., Endicott, N. Y. Gun-action. No. 1,325,400; Dec. 16; v. 269; p. 516.



- Hochstetter, Frederick W., New York, N. Y., assignor to H. P. Patents and Processes Company, Inc. Light-regulator for projecting moving-pictures. No. 1,301,264; Apr. 22; v. 261; p. 673.
- Hochstetter, Frederick W., New York, N. Y., assignor to H. P. Patents and Processes Company, Inc. Color-filter for moving-picture machines. No. 1,301,265; Apr. 22; v. 261; p. 673.
- Hochstetter, Frederick W., New York, assignor of one-half to P. M. Pierson, Scarborough-on-the-Hudson, N. Y. Apparatus for printing and producing moving pictures. No. 1,325,198; Dec. 16; v. 269; p. 479.
- Hocking, J. Preston, Kenosha, Wis. Photograph-container. No. 1,316,615; Sept. 23; v. 266; p. 467.
- Hockman, Ashby J., assignor of fifty one-hundredths to A. C. Hartman, Las Animas, Colo. Automatic gage-glass valve. No. 1,302,045; Apr. 29; v. 261; p. 853.
- Hodapp, Henry, Seymour, assignor of one-half to E. A. Higgins, North Vernon, Ind. Cutter-head. No. 1,301,129; Apr. 22; v. 261; p. 646.
- Hodel, John S. (See Eisenmann, Hodel, and Baier.)
- Hodge, Arthur J., and H. B. Ruggles, Pasadena, Calif., assignors to American Products Company, St. Louis, Mo. Machine for producing either solid or hollow fibrous pulp articles of various forms. No. 1,300,966; Apr. 15; v. 261; p. 574.
- Hodge, Karl, Sidney, Ohio. Making steering-wheels. No. 1,296,958; Mar. 11; v. 260; p. 294.
- Hodge, Robert J., assignor to The American Buckle Co., West Haven, Conn. Wire-utter. No. 1,317,444; Sept. 30; v. 266; p. 658.
- Hodge, Thomas D., Duluth, Minn. Switch for roll-passes. No. 1,307,125; June 17; v. 263; p. 418.
- Hodges, Allan R., assignor of one-half to C. A. McAllister, Memphis, Tenn. Back-tube-sheet structure. No. 1,292,775; Jan. 28; v. 258; p. 738.
- Hodges, Allan R., assignor of one-half to C. A. McAllister, Memphis, Tenn. Boiler stay-sheet. No. 1,299,344; Apr. 1; v. 261; p. 165.
- Hodges, Austin L., Charleston, S. C. Target-sighting device. No. 1,295,897; Mar. 4; v. 260; p. 18.
- Hodges, Charles, and H. Jackson, Waimate, New Zealand. Flushing of water-closet basins and the like. No. 1,292,776; Jan. 28; v. 258; p. 738.
- Hodges, Chauncey W., Galesburg, Mich. Chain. No. 1,314,747; Sept. 2; v. 266; p. 51.
- Hodges, Chauncey W., Grand Rapids, Mich. Tire-chain. No. 1,293,436; Feb. 4; v. 259; p. 107.
- Hodges, Chauncey W., Grand Rapids, Mich. Antislip device for vehicle-wheels. No. 1,325,245; Dec. 16; v. 269; p. 488.
- Hodges, Edward G., Marshalltown, Iowa. Throttle-controlled auxiliary air-supply device. No. 1,293,437; Feb. 4; v. 259; p. 108.
- Hodges, Edward G., Marshalltown, Iowa. Automatic auxiliary air-supply device for internal-combustion engines. No. 1,301,054; Apr. 15; v. 261; p. 594.
- Hodges, Edward G., Marshalltown, Iowa. Automatic air and vapor device for internal-combustion engines. No. 1,316,953; Sept. 23; v. 266; p. 529.
- Hodges, Edward G., Marshalltown, Iowa. Means for controlling fuel mixtures for explosive-engines. No. 1,323,766; Dec. 2; v. 269; p. 102.
- Hodges, Edward R., Irvington, assignor to Splittorf Electrical Company, Newark, N. J. Timer-distributor mechanism. No. 1,311,893; Aug. 5; v. 265; p. 8.
- Hodges, Jesse E., Covington, Ky. Clamp. No. 1,291,519; Jan. 14; v. 258; p. 381.
- Hodges, Jesse E., Covington, Ky. Adjustable shore. No. 1,299,345; Apr. 1; v. 261; p. 166.
- Hodges, Jesse E., Covington, Ky. Column-form. No. 1,300,393; Apr. 15; v. 261; p. 453.
- Hodges, Jesse E., Cincinnati, Ohio. Device for applying stucco. (Reissue.) No. 14,721; Sept. 9; v. 266; p. 277.
- Hodgetts, Harold W., assignor to L. J. Harley, Jr., Springfield, Mass. Casket-box handle. No. 1,319,339; Oct. 21; v. 267; p. 407.
- Hodgkins, Reginald, and S. Clifton, assignors to H. H. Fulton, Los Angeles, Cal. Carbureter. No. 1,290,195; Jan. 7; v. 258; p. 44.
- Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Stern-tube for ships. No. 1,323,474; Dec. 2; v. 269; p. 47.
- Hodgman Rubber Co. (See Stindt, Frederick L. A., assignor.)
- Hodgman, Willis K., Jr., Taunton, Mass. Mechanical movement and printing-press involving the same. No. 1,302,366; Apr. 29; v. 261; p. 913.
- Hodgson, Arthur V., Cecil, Oreg. Return-spring for dumping-rakes. No. 1,303,899; May 20; v. 262; p. 331.
- Hodgson, Arthur V., Cecil, Oreg. Hay-loader. No. 1,310,187; July 15; v. 264; p. 467.
- Hodgson, George F., Thornton, assignor to S. and F. Seidenfeld, Spokane, Wash. Gate. No. 1,307,126; June 17; v. 263; p. 418.
- Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Canning. No. 1,306,813; June 17; v. 263; p. 360.
- Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Construction of cans. No. 1,316,237; Sept. 16; v. 266; p. 346.
- Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Can-body. No. 1,316,238; Sept. 16; v. 266; p. 346.
- Hodgson, William, New York, N. Y. Regulator. No. 1,305,603; June 3; v. 263; p. 73.
- Hodschar, Frederick, Brooklyn, N. Y. Mop. No. 1,310,910; July 22; v. 264; p. 631.
- Hoe, Robert. (See MacConnell, Hugh C., assignor.)
- Hoerber, Sietze, Seattle, Wash. Fruit-picker. No. 1,300,168; Apr. 8; v. 261; p. 378.
- Hoecker, Albert, Collinsville, Ill. Tire-rim. No. 1,299,727; Apr. 8; v. 261; p. 281.
- Hoehn, John, et al. (See Reese, David W., assignor.)
- Hoehn, Martha, et al. (See Reese, David W., assignor.)
- Hoelmann, Richard, New York, N. Y. Spring safety-latch. No. 1,310,018; July 15; v. 264; p. 436.
- Hoelmann, Richard, New York, N. Y. Safety-latch for presses. No. 1,319,078; Oct. 21; v. 267; p. 357.
- Hoelscher, W. G. (See Groene and Hoelscher.)
- Hoenninger, John F., Jr., Lancaster, Pa. Baker's-oven light. No. 1,296,804; Mar. 11; v. 260; p. 258.
- Hoepf, Frank X., Tiffin, Ohio. Fence-post. No. 1,297,169; Mar. 11; v. 260; p. 340.
- Hoerl, Conrad, Newark, N. J. Rotary compressor. No. 1,291,520; Jan. 14; v. 258; p. 382.
- Hoerr, Louis A., St. Louis, Mo. Carline. No. 1,322,694; Nov. 25; v. 268; p. 606.
- Hoeschen, Henry A., assignor of one-half to Baker Ice Machine Company, Omaha, Nebr. Automatic electric switch. No. 1,316,905; Sept. 16; v. 266; p. 359.
- Hoeschen, Henry A., J. A., and W., Omaha, Nebr., assignors to Hoeschen Manufacturing Company. Electric railway-signal. No. 1,321,635; Nov. 11; v. 268; p. 305.
- Hoeschen, Joseph A. (See Hoeschen, Henry A., J. A., and W.)
- Hoeschen Manufacturing Company. (See Carlson, George H., assignor.)
- Hoeschen Manufacturing Company. (See Hoeschen, Henry A., J. A., and W., assignors.)
- Hoeschen, William. (See Hoeschen, Henry A., J. A., and W.)
- Hoey, John, deceased, San Francisco, Cal.; M. Hoey, administratrix. Mattress and cushion. No. 1,295,030; Feb. 18; v. 259; p. 544.
- Hoey, Margaret, administratrix. (See Hoey, John.)
- Hoey, Samuel C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,303,317; May 13; v. 262; p. 186.
- Hofer, Charles, Newark, N. J. Artificial limb. No. 1,305,721; June 3; v. 263; p. 93.
- Hofer, Frank J., Effingham, Ill. Convertible cart. No. 1,305,106; May 27; v. 262; p. 596.
- Hoff, Franklin J. (See Beil and Hoff.)
- Hoff, Franklin J., Youngstown, Ohio. Vehicle-signal. No. 1,290,993; Jan. 14; v. 258; p. 260.
- Hoff, Gustav, Amot, Sweden. Automatic pressing-machine. No. 1,316,793; Sept. 23; v. 266; p. 500.
- Hoff, John D., Oakland, Calif. Kiln. No. 1,307,974; June 24; v. 263; p. 606.
- Hoffay, Joseph, New York, N. Y. Phonograph sound-box. No. 1,291,887; Jan. 21; v. 258; p. 501.
- Hoffeldt, Andrew, Harbor, Oreg. Receptacle. No. 1,305,544; June 3; v. 263; p. 59.
- Hoffer, John, Marianna, Pa. Safety device for elevator-cars and mine-cages. No. 1,324,451; Dec. 9; v. 269; p. 277.
- Hoffman, Addison F., Pittsburgh, Pa. Pickling ferrous articles and electrically regenerating the pickling-bath. No. 1,305,213; May 27; v. 262; p. 617.
- Hoffman, Addison F., Pittsburgh, Pa. Treating mine-water and product thereof. No. 1,315,836; Sept. 9; v. 266; p. 257.
- Hoffman, Alfred, and L. H. Hileman, Leadville, Colo. Sprayer attachment for rock-drills. No. 1,290,196; Jan. 7; v. 258; p. 44.
- Hoffman, Edmund. (See Gruber, Arthur H., assignor.)
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Sifter-top for talcum-powder cans and the like. No. 1,301,847; Apr. 29; v. 261; p. 815.
- Hoffman, George E., Pensacola, Fla. Submarine vessel. No. 1,313,534; Aug. 19; v. 265; p. 368.
- Hoffman, George L., Plainview, Tex. Disk plow. No. 1,321,040; Nov. 4; v. 268; p. 129.
- Hoffman, Harry A. (See Juve and Hoffman.)
- Hoffman, Henry A., Brooklyn, N. Y. Flagpole. No. 1,317,445; Sept. 30; v. 266; p. 658.
- Hoffman, John H., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y. Gumming the edges of ribbons. No. 1,300,394; Apr. 15; v. 261; p. 453.
- Hoffman, John R., Philadelphia, Pa. Music-roll. No. 1,296,392; Mar. 4; v. 260; p. 130.
- Hoffman, Joseph L., Portland, Oreg. Automatic feed control for oil-burners. No. 1,314,807; Sept. 2; v. 266; p. 62.
- Hoffman, Louis, assignor to F. A. Patrick & Company, Duluth, Minn. Pressing-machine. (Reissue.) No. 14,590; Feb. 11; v. 259; p. 355.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-heater. No. 1,292,316; Jan. 21; v. 258; p. 608.



## Alphabetical list of patentees—Continued.

- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Company, Chicago, Ill. Cook-stove. No. 1,318,560; Oct. 14; v. 267; p. 233.
- Hoffman, William F. (See Moore, George T., assignor.)
- Hoffman, William M., Toronto, Ontario, Canada. Boring-machine. No. 1,316,236; Sept. 16; v. 266; p. 346.
- Hoffmann, Clarence O., Detroit, Mich. Fire-extinguishing device. No. 1,295,166; Feb. 25; v. 259; p. 599.
- Hoffmann, Henry. (See Busacker, John, assignor.)
- Hoffmann, Ignatz, Ford City, Pa. Machine for the manufacture of paper excelsior. No. 1,312,986; Aug. 12; v. 265; p. 247.
- Hoffmann, Jacob J., Beachwood, N. J. Collar-button dispenser. No. 1,290,197; Jan. 7; v. 258; p. 44.
- Hoffmann-La Roche Chemical Works, The. (See Guggenheim and Hug, assignors.)
- Hoffmann-La Roche Chemical Works, The. (See Kubli, Heinrich, assignor.)
- Hoffmann-La Roche Chemical Works, The. (See Müller, Emil, assignor.)
- Hoffmann-La Roche Chemical Works, The. (See Preiwerk, Ernst, assignor.)
- Hoffmann, Rudolph, Romanshorn, Switzerland. Arrangement of wheel-gearings for electrically-driven vehicles. No. 1,317,499; Sept. 30; v. 266; p. 668.
- Hofmann, John L., Elizabeth, N. J. Combined tool. No. 1,323,056; Nov. 25; v. 268; p. 674.
- Hofmann, Josef, Baumaroché, Switzerland. Shock-absorber mechanism. No. 1,297,849; Mar. 18; v. 260; p. 514.
- Hofmann, Josef, Baumaroché, Switzerland. Pneumatic spring. No. 1,300,727; Apr. 15; v. 261; p. 523.
- Hofmann, Josef, Baumaroché, Switzerland. Cushioning mechanism for vehicle-bodies. No. 1,304,982; May 27; v. 262; p. 573.
- Hofstad, Nels, Chicago, Ill., assignor to Johnson Service Company. Control device. (Reissue.) No. 14,671; June 24; v. 263; p. 615.
- Hofstatter, Ernest W., Nyack, N. Y. Shock-absorber. No. 1,314,266; Aug. 26; v. 265; p. 541.
- Hofstetter, Moritz N., New York, N. Y. Surgical appliance. No. 1,318,872; Oct. 14; v. 267; p. 292.
- Hoffo, Theone K., Grand Forks, N. D. Leg-protector. No. 1,299,574; Apr. 8; v. 261; p. 246.
- Hogan, George F., Chicago, Ill. Envelop. No. 1,306,378; June 10; v. 263; p. 248.
- Hogan, George F., Chicago, Ill. Coupon-envelop. No. 1,310,188; July 15; v. 264; p. 467.
- Hogan, George L. (See Walker, James W., assignor.)
- Hogan, Harvey, assignor to M. I. Morley, Rockford, Ill. Ladder. No. 1,305,107; May 27; v. 262; p. 596.
- Hogan, William T., assignor of one-half to H. L. Reynolds, Seattle, Wash. Bolting-up device. No. 1,303,665; May 13; v. 262; p. 250.
- Hogander, John E., Minneapolis, Minn. Truck. No. 1,316,239; Sept. 16; v. 266; p. 347.
- Hoge, John A., New York, N. Y. Bellows-operating mechanism for player-pianos. No. 1,295,989; Mar. 4; v. 260; p. 38.
- Hoge, Joseph F. D. (See Johnson and Hoge.)
- Hoge Manufacturing Company, The. (See Reid, Malcolm M., assignor.)
- Hogg, Frederic W., Hillsdale, assignor of one-fourth to P. A. Getz and one-fourth to D. M. Dunne, Portland, Ore. Pneumatically-operated elevating mechanism. No. 1,294,266; Feb. 11; v. 259; p. 332.
- Hogge, Clinton M., Richmond, Va. Ash-receptacle. No. 1,296,521; Mar. 4; v. 260; p. 157.
- Hogue, William J., Kansas City, Mo. Oil-well-cleaning appliance. No. 1,293,777; Feb. 11; v. 259; p. 218.
- Hohaus, George E., Forman, N. D. Portable fence. No. 1,316,893; Sept. 23; v. 266; p. 518.
- Hohman, Joseph, East Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Valve-sealing means. No. 1,292,603; Jan. 28; v. 258; p. 698.
- Hohmann, Richard K., Sioux City, Iowa. Rotary-hook sewing mechanism. No. 1,299,468; Apr. 8; v. 261; p. 222.
- Hohmann, Richard K., Sioux City, Iowa. Oiling system for sewing-machines. No. 1,311,817; July 29; v. 264; p. 833.
- Hohner, William, Woodhaven, and L. R. Manville, Yonkers, N. Y. Apparatus for repairing worn pin-bearings of pin-connected trusses. No. 1,306,901; June 17; v. 263; p. 377.
- Hohnbach, Robert, Chicago, Ill. Sliding curtain for vehicles. No. 1,319,958; Oct. 28; v. 267; p. 547.
- Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Dispenser. No. 1,293,438; Feb. 4; v. 259; p. 108.
- Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Face-plate for vise-jaws. No. 1,307,049; June 17; v. 263; p. 404.
- Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Face-plate for vise-jaws. No. 1,307,050; June 17; v. 263; p. 404.
- Hohorst, William F., San Diego, Cal. Dry-dock. No. 1,296,662; Mar. 11; v. 260; p. 226.
- Holland, Albert, Fargo, N. D. Automatic reversible fan for explosive-engines. No. 1,304,048; May 20; v. 262; p. 358.
- Holland, Albert, Fargo, N. D., assignor of one-tenth to A. M. Carlsen, St. Paul, Minn. Flying-machine. No. 1,308,784; July 8; v. 264; p. 170.
- Holland, Alfred. (See Struble, Alfred, assignor.)
- Holland, John, et al. (See Newbauer, Faltine, assignor.)
- Holgaard, Anders C. E., Copenhagen, Denmark. Electric contact device. No. 1,315,306; Sept. 9; v. 266; p. 162.
- Hokanson, Emanuel, Crookston, Minn. Pocket-book. No. 1,294,267; Feb. 11; v. 259; p. 332.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Line-lock. No. 1,307,051; June 17; v. 263; p. 405.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Variable line-spacer. No. 1,310,828; July 22; v. 264; p. 617.
- Hokanson, Otto A., and A. O. H. Ebert, assignors to Woodstock Typewriter Company, Woodstock, Ill. Paper-finger. No. 1,310,829; July 22; v. 264; p. 617.
- Hoke, Harry A., Altoona, Pa. Valve. No. 1,290,558; Jan. 7; v. 258; p. 131.
- Hoke, Harry A., Altoona, Pa. Crosshead wrist-pin for locomotives. No. 1,312,987; Aug. 12; v. 265; p. 247.
- Hoke, Henry E., Hanover, Pa. Can-opener. No. 1,317,134; Sept. 23; v. 266; p. 563.
- Holbein, Joseph E., Fombell, Pa. Machine for presenting tubes to grinders. No. 1,319,000; Oct. 14; v. 267; p. 317.
- Holberg, Frank C., Jr., assignor to Jenkins Interlock Manufacturing Company, Inc., Philadelphia, Pa. Elevator interlocking device. No. 1,298,948; Apr. 1; v. 261; p. 76.
- Holbourns, John G., assignor to Linotype and Machinery Limited, London, England. Mechanically-cast typebar. No. 1,306,902; June 17; v. 263; p. 376.
- Holbrook Company. (See Henderson, William A., assignor.)
- Holcomb, Augustus H., Seattle, Wash. Changeable sign. No. 1,292,467; Jan. 28; v. 258; p. 663.
- Holcomb & Hoke Manufacturing Company. (See Tripp, Charles A., assignor.)
- Holcomb, Noble R., Keystone, Okla. Antiskidding device. No. 1,301,266; Apr. 22; v. 261; p. 673.
- Holcomb, Noble R., Eldorado, Kans. Key-fastener. No. 1,307,496; June 24; v. 263; p. 519.
- Holcombe, Joseph R., New York, N. Y. Tire-mounting and clamp therefor. No. 1,306,814; June 17; v. 263; p. 360.
- Holdaway, William S., Salt Lake City, Utah. Pump. No. 1,317,370; Sept. 30; v. 266; p. 644.
- Holden, Artemas E. F., Centalla, W. Va. Churn-dasher. No. 1,296,663; Mar. 11; v. 260; p. 226.
- Holden, Edward R., Los Angeles, Cal. Apparatus for the electric dissolution and precipitation of metals. No. 1,295,752; Feb. 25; v. 259; p. 733.
- Holden, Edwin B., and G. L. Clark, assignors to A. W. White, Syracuse, N. Y. Pinless hinge. No. 1,326,344; Dec. 30; v. 269; p. 745.
- Holden, Ernest A. (See Goodman and Holden.)
- Holden, Frankus S., Oakland, Cal. Insulating and protecting glove. No. 1,294,105; Feb. 11; v. 259; p. 295.
- Holden, George A. (See Finnigan, George P., assignor.)
- Holden, Harry W., and H. M. Pendleton, Durham Center, assignor of one-half to F. Frazier, Hunting Hill, Md. Sight for firearms. No. 1,316,482; Sept. 16; v. 266; p. 393.
- Holden, Maria E., Yonkers, N. Y. Toy hoop. No. 1,307,096; June 17; v. 263; p. 412.
- Holder, Sherman F., Dugger, Ind. Sanitary milk-bucket. No. 1,298,503; Mar. 25; v. 260; p. 680.
- Holderman, Charles E., assignor to Packard Motor Car Company, Detroit, Mich. Cutting-off machine. No. 1,305,108; May 27; v. 262; p. 597.
- Holdford, John M., Bald Knob, Ark. Snap-hook guard and liner. No. 1,290,198; Jan. 7; v. 258; p. 44.
- Holding, Henry, New York, N. Y. Tennis-racket. No. 1,292,317; Jan. 21; v. 258; p. 608.
- Holdred, Frank R., assignor to The Warren Featherbone Company, Three Oaks, Mich. Machine for treating quills. No. 1,294,803; Feb. 18; v. 259; p. 493.
- Holdsworth, Arthur J., assignor of one-half to C. Schneider, Detroit, Mich. Cover-holder for jars. No. 1,296,959; Mar. 11; v. 260; p. 294.
- Holdsworth, Arthur J., assignor of one-half to C. Schneider, Detroit, Mich. Cover-holder for glass jars. No. 1,298,212; Mar. 25; v. 260; p. 618.
- Holdsworth, Arthur J., assignor of one-half to C. Schneider, Detroit, Mich. Cover-holder. No. 1,299,832; Apr. 8; v. 261; p. 306.
- Holdsworth, Marmaduke, assignor to A. Thomas, Worcester, Mass. Mirror-support for use in closed cars. No. 1,311,278; July 29; v. 264; p. 732.
- Holek, John, Milwaukee, Wis. Dish-washing machine. No. 1,325,246; Dec. 16; v. 269; p. 488.
- Holford, Howard, Huron, S. D. Root-cutting implement. No. 1,310,569; July 22; v. 264; p. 568.
- Hollaender, Walter S., Jr., Cincinnati, Ohio. Roof-flash ing. No. 1,317,446; Sept. 30; v. 266; p. 658.
- Holland, Charles A., New York, N. Y., assignor, by mesne assignments, to Track-Back Trailer Company. Carry-all trailer-vehicle. No. 1,315,498; Sept. 9; v. 266; p. 197.
- Holland, Curtis. (See Davidson and Holland.)



- Holland, Daniel M., and F. P. Sweeden, Council Bluffs, Iowa. Poultry-watering fountain. No. 1,325,640; Dec. 23; v. 269; p. 578.
- Holland, Edward A., Southend-on-Sea, London, England. Coating with metal of lace and other similar goods and woven or other fabrics. No. 1,309,032; July 8; v. 264; p. 218.
- Holland, Frederick W., Brooklyn, assignor to Herman Scheuer & Sons, New York, N. Y. Letter-case. No. 1,310,621; July 22; v. 264; p. 578.
- Holland, Homer, Center, Colo. Stock salting and feeding device. No. 1,324,593; Dec. 9; v. 269; p. 305.
- Holland, James M., Temple, Tex. Combined water gage and recorder. No. 1,300,967; Apr. 15; v. 261; p. 574.
- Holland, Jesse M., Nashville, Tenn. Car-coupling. No. 1,307,254; June 17; v. 263; p. 440.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Controlling device for phonographs. No. 1,290,199; Jan. 7; v. 258; p. 45.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Speaking-tube support for phonographs. No. 1,297,466; Mar. 18; v. 260; p. 432.
- Holland, Thomas M., Yuma, Ariz. Rope or cable clamp. No. 1,320,691; Nov. 4; v. 268; p. 62.
- Hollander, Aladar, New London, Conn., assignor to Electric Boat Company, New York, N. Y. Periscope. No. 1,290,744; Jan. 7; v. 258; p. 177.
- Hollander, Aladar, New London, Conn., assignor to Electric Boat Company, New York, N. Y. Periscope. No. 1,290,745; Jan. 7; v. 258; p. 177.
- Hollander, Aladar, New London, Conn., assignor to Electric Boat Company, New York, N. Y. Periscope. No. 1,290,746; Jan. 7; v. 258; p. 177.
- Hollander, Jacob H., assignor of one-third to S. J. Unger and one-third to O. N. Pollak, Newark, N. J. Oversuit. No. 1,298,043; Mar. 25; v. 260; p. 581.
- Hollar, William H., Philadelphia, Pa. Vault. No. 1,309,200; July 8; v. 264; p. 248.
- Hollenback, George M., Lewistown, Mont. Centrifugal-pressure casting apparatus. No. 1,310,865; July 22; v. 264; p. 623.
- Hollenbeck, George A., Sault Ste. Marie, Mich. Grate for heating apparatus. No. 1,302,164; Apr. 29; v. 261; p. 375.
- Hollenbeck, George L., Jamestown, N. Y. Light-control for automobile-lamps. No. 1,309,626; July 15; v. 264; p. 364.
- Hollenbeck, Wilbur E., and W. R. Gray, Lentner, Mo. Engine-tester. No. 1,311,228; July 29; v. 264; p. 722.
- Hollenberger, John A., Hagerstown, Md. Pencil. No. 1,298,343; Mar. 25; v. 260; p. 644.
- Hollenhorst, August, Greenwald, Minn. Plowshare-frame. No. 1,302,555; May 6; v. 262; p. 14.
- Holleran, Patrick. (See Charles and Holleran.)
- Hollerith, Herman, Washington, D. C., assignor to The Tabulating Machine Company, East Orange, N. J. Registering and recording apparatus for tabulating systems. No. 1,295,167; Feb. 25; v. 259; p. 599.
- Holley, Alfred E., and O. E. Mott, Woolwich, assignors to themselves, and Chance and Hunt, Limited, Oldbury, England. Nitration process. No. 1,297,170; Mar. 11; v. 260; p. 341.
- Holley, Alfred E., and O. E. Mott, Woolwich, assignors to themselves, and Chance and Hunt, Limited, Oldbury, England. Apparatus for the treatment of one liquid with another. No. 1,297,171; Mar. 11; v. 260; p. 341.
- Holley Brothers Company. (See Hastings, Donald T., assignor.)
- Holley Brothers Company. (See Holley, George M., assignor.)
- Holley, Clarence M., assignor to Utility Compressor Company, Detroit, Mich. Compressor for refrigerating systems. No. 1,290,994; Jan. 14; v. 258; p. 260.
- Holley, Everett, Walton, N. Y. Plate or pan lifter. No. 1,295,317; Feb. 25; v. 259; p. 633.
- Holley, George M., assignor to Holley Brothers Company, Detroit, Mich. Manifold construction for explosion-engines. No. 1,300,395; Apr. 15; v. 261; p. 454.
- Holley, George M., and D. T. Hastings, Detroit, Mich.; said Hastings assignor to said Holley. Primer. No. 1,300,396; Apr. 15; v. 261; p. 454.
- Holley, Henry E., Otisville, N. Y. Demountable wheel. No. 1,320,551; Nov. 4; v. 268; p. 37.
- Holliday, John S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signal. No. 1,306,181; June 10; v. 263; p. 209.
- Holliday, John S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric relay and motor for use therein. No. 1,310,622; July 22; v. 264; p. 578.
- Holliday, John S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,324,152; Dec. 9; v. 269; p. 219.
- Holliday, John S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,325,324; Dec. 16; v. 269; p. 502.
- Holliday, Minor T., Bozeman, Mont. Tooth-brush. No. 1,323,057; Nov. 25; v. 268; p. 674.
- Holliday, William M., Penrith, assignor to A. J. Bert, Sydney, New South Wales, Australia. Combined box and press for pneumatic-tire-repair outfits. No. 1,294,464; Feb. 18; v. 259; p. 415.
- Hollifield, Horatio B., Washington, D. C. Automobile attachment. No. 1,307,402; June 24; v. 263; p. 501.
- Hollings, Ernest, Cleveland, Ohio. Nut-machine. No. 1,319,708; Oct. 28; v. 267; p. 500.
- Hollins, De Ruyter M., New York, N. Y. Roller writing guide and rest. No. 1,308,355; July 1; v. 264; p. 64.
- Hollinshead, George. (See Moncaster and Hollinshead.)
- Hollingshead, Harold, Pasadena, Calif. Power-driven socket-wrench. No. 1,298,504; Mar. 25; v. 260; p. 680.
- Hollingsworth, Jephtha G., Kansas City, Mo. Dental-plate cleaner. No. 1,315,499; Sept. 9; v. 266; p. 197.
- Hollis, George F., Pittsburgh, Pa. Brake-lining. No. 1,304,481; May 20; v. 262; p. 441.
- Hollis, George F., Pittsburgh, Pa. Brake-lining. No. 1,319,001; Oct. 14; v. 267; p. 317.
- Hollis, Harry, Lebanon, Pa., assignor to Westinghouse Electric & Manufacturing Company, Arc-regulating system. No. 1,298,715; Apr. 1; v. 261; p. 22.
- Hollis, Joseph, Canton, assignor to J. E. McLain, Massillon, Ohio. Lamp-bracket. No. 1,319,393; Oct. 21; v. 267; p. 417.
- Hollis, Joseph, assignor to J. E. McLain, Canton, Ohio. Trolley-stand. No. 1,324,049; Dec. 9; v. 269; p. 199.
- Hollis, Otis A., Pittsburgh, Pa. Running-gear. No. 1,302,489; Apr. 29; v. 261; p. 938.
- Hollis, William H., Philadelphia, Pa. Guide-meter. No. 1,320,470; Nov. 4; v. 268; p. 21.
- Hollister, Bertram K., Chicago, Ill. Surgical package. No. 1,309,201; July 8; v. 264; p. 248.
- Hollister, Clarence P., New York, N. Y. Lubrication of internal-combustion engines. No. 1,323,861; Dec. 2; v. 269; p. 119.
- Hollister, Harry E., Irvington, assignor to Kalbperry Corporation, Elizabeth, N. J. Method of and apparatus for drying materials. No. 1,301,130; Apr. 22; v. 261; p. 646.
- Hollister, Harry E., Irvington, assignor to Kalbperry Corporation, Elizabeth, N. J. Apparatus for drying materials. No. 1,304,182; May 20; v. 262; p. 382.
- Hollister, Mortimer C., Elgin, Ill. Automobile-radiator. No. 1,298,505; Mar. 25; v. 260; p. 681.
- Hollman, Louis, Chicago, Ill. Rug and carpet cleaning machine. No. 1,308,785; July 8; v. 264; p. 170.
- Hollnagel, Herbert P. (See Conklin and Hollnagel.)
- Hollnagel, Herbert P., West Newton, and O. E. Conklin, Boston, Mass. Light projection. No. 1,502,924; May 6; v. 262; p. 85.
- Hollnagel, Theodore C., Milwaukee, Wis. Truck. No. 1,325,517; Dec. 23; v. 269; p. 555.
- Hollo, Joseph. (See Drexler and Hollo.)
- Hollomon, Casey B., Kenton, Tenn. Mower cutter-bar. No. 1,310,339; July 15; v. 264; p. 494.
- Holloway, George. (See Lawson, Jasper C., assignor.)
- Holloway, William H., Denver, Colo. System and apparatus for the control of electric-circuit breakers. No. 1,310,081; July 15; v. 264; p. 447.
- Hollowell, Howard T., Philadelphia, Pa. Shaft-hanger. No. 1,309,729; July 15; v. 264; p. 383.
- Holm, Adolph H., Wolbach, Nebr. Foldable-seat attachment for benches. No. 1,293,778; Feb. 11; v. 259; p. 218.
- Holm, Charles A., Tigerton, Wis. Clamp for feed-cutter sharpeners. No. 1,309,984; July 15; v. 264; p. 431.
- Holm, Svante V., Stockholm, Sweden. Device for the carrying of curtain-rods and the like. No. 1,315,553; Sept. 9; v. 266; p. 206.
- Holman, Walter W., et al. (See Anderson, Otis W., assignor.)
- Holmberg, William M., Millbury, Mass. Switch-operating mechanism. No. 1,300,968; Apr. 15; v. 261; p. 574.
- Holmboe, Laurence S., Oklahoma, Okla. Talking-machine. No. 1,312,250; Aug. 5; v. 265; p. 74.
- Holmboe, Lawrence S., Oklahoma, Okla. Phonograph-recorder. No. 1,316,894; Sept. 23; v. 266; p. 518.
- Holme, Edward M., Manchester, England. Electrically-operated crane or other raising and lowering machinery. No. 1,326,732; Dec. 30; v. 269; p. 819.
- Holmes, Abram G., Pittsburgh, Pa. Wet-gas meter. No. 1,305,800; June 3; v. 263; p. 108.
- Holmes, Arnold H., assignor to Perfelitone Corporation, Philadelphia, Pa. Reproducer for talking-machines. No. 1,310,753; July 22; v. 264; p. 602.
- Holmes, Arthur, Canton, Ohio. Piston. No. 1,311,124; July 22; v. 264; p. 671.
- Holmes, Arthur, Syracuse, N. Y., assignor to The Holmes Automobile Company, Canton, Ohio. Internal-combustion engine. No. 1,314,648; Sept. 2; v. 266; p. 33.
- Holmes Automobile Company, The. (See Holmes, Arthur, assignor.)
- Holmes, Clara H. B. and O. G., Cleveland, Ohio. Testing device for ignition systems. No. 1,290,995; Jan. 14; v. 258; p. 260.
- Holmes, Edward C., Norwood, Ohio. Screw-spike. No. 1,294,268; Feb. 11; v. 259; p. 332.
- Holmes, Ernest, Chattanooga, Tenn. Derrick-truck. (Reissue.) No. 14,720; Sept. 2; v. 266; p. 133.
- Holmes, Frank E., Philadelphia, Pa. Automatic feed for internal-combustion motors. No. 1,315,125; Sept. 2; v. 266; p. 119.
- Holmes, Ferdinand M. (See Coulson and Holmes.)



## Alphabetical list of patentees—Continued.

- Holmes, Fletcher B., Woodbury, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Obtaining nitro compounds. No. 1,309,577; July 8; v. 264; p. 319.
- Holmes, Gwyllym R., et al. (See Norwood, Harry G., assignor.)
- Holmes, Gwyllym R., Baltimore, Md. Marine torch. No. 1,296,664; Mar. 11; v. 260; p. 226.
- Holmes, Harvey L. (See Leese, Thaddeus S., assignor.)
- Holmes, Henry H., assignor of one-third to C. F. Nelson and one-third to E. V. Gustafson, Council Bluffs, Iowa. Broom-holder. No. 1,299,575; Apr. 8; v. 261; p. 246.
- Holmes, Henry S., Brooklyn, assignor to T. E. Murray, New York, N. Y. Electric welding-machine. No. 1,290,996; Jan. 14; v. 258; p. 261.
- Holmes, Henry S., Brooklyn, assignor to T. E. Murray, New York, N. Y. Method of and apparatus for electric welding. No. 1,290,997; Jan. 14; v. 258; p. 261.
- Holmes, Joseph R., London, England. Means of attachment for life-buoy lights. No. 1,322,902; Nov. 25; v. 268; p. 644.
- Holmes, Louis W., Minneapolis, assignor to M. O. Shoop, St. Paul, Minn. Wire-fence-stay-forming machine. No. 1,292,604; Jan. 28; v. 258; p. 699.
- Holmes, Major E., Lakewood, Ohio, assignor to National Carbon Company, Inc. Electric battery. No. 1,314,594; Sept. 2; v. 266; p. 23.
- Holmes, Morris P., assignor to Sullivan Machinery Company, Claremont, N. H. Electric controller. No. 1,292,777; Jan. 28; v. 258; p. 738.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Braking mechanism. No. 1,303,219; May 6; v. 262; p. 141.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,302,925; May 6; v. 262; p. 85.
- Holmes, Morris P., assignor to Sullivan Machinery Company, Claremont, N. H. Mining-machine. No. 1,303,797; May 13; v. 262; p. 274.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Cutter-chain. No. 1,320,552; Nov. 4; v. 268; p. 37.
- Holmes, Oscar G. (See Holmes, Clara H. B. and O. G.)
- Holmes, Oscar J. (See Larsen, Holmes, and Larsen.)
- Holmes, Oscar J., Chicago, Ill. Film and film-sprocket. No. 1,299,469; Apr. 8; v. 261; p. 222.
- Holmes, Owen, Huntington, Ind. Automatic train-stop. No. 1,315,500; Sept. 9; v. 266; p. 197.
- Holmes, Robert E. L., Chicago, Ill. Shock-absorber for deep-well pumps. No. 1,292,778; Jan. 28; v. 258; p. 739.
- Holmes, Samuel A., Storm Lake, Iowa. Seed-corn drier. No. 1,325,290; Dec. 16; v. 269; p. 496.
- Holmes, Thomas E., Glasgow, Scotland. Means for securing and aligning mill head-stocks, gables, and like machine parts upon their sole or foundation plates. No. 1,291,521; Jan. 14; v. 258; p. 382.
- Holmes, Thomas E., Glasgow, Scotland. Steam-hydraulic intensifier. No. 1,319,583; Oct. 21; v. 267; p. 454.
- Holmes, Thomas E., Glasgow, Scotland. Means for securing columns in hydraulic presses and like machines and analogous purposes. No. 1,322,442; Nov. 18; v. 268; p. 507.
- Holmes, Thomas J., Chicago, Ill. Lubricator. No. 1,297,850; Mar. 18; v. 260; p. 515.
- Holmes, William, Williamson, W. Va. Wrench. No. 1,303,666; May 13; v. 262; p. 250.
- Holmes, William K., Brooklyn, N. Y. Pencil. No. 1,321,636; Nov. 11; v. 268; p. 305.
- Holmes, William T. (See Whittingham and Holmes.)
- Holmstead, Francis K., Charleston, W. Va. Conveying and loading mechanism. No. 1,290,200; Jan. 7; v. 258; p. 45.
- Holmsted, Francis K., Charleston, W. Va. Conveying and loading mechanism. No. 1,291,522; Jan. 14; v. 258; p. 382.
- Holmgren, Julius H., San Antonio, Tex. Construction of the hulls of concrete ships. No. 1,303,667; May 13; v. 262; p. 250.
- Holmgren, August, et al. (See Bergren, John A., assignor.)
- Holmquist, John A., Woodlawn, Pa. Stripping apparatus. No. 1,317,500; Sept. 30; v. 266; p. 669.
- Holmquist, Peter O., Chicago, Ill. Curtain-stretcher. No. 1,326,196; Dec. 30; v. 269; p. 718.
- Holmquist-Swanson Company, The. (See Swanson, Axel W., assignor.)
- Holmström, Gustaf E., Gefle, Sweden. Producing prints with colors on papers, leather, or similar material. No. 1,300,397; Apr. 15; v. 261; p. 454.
- Holownia, Boleslaw, Syracuse, N. Y. Knife. No. 1,296,805; Mar. 11; v. 260; p. 258.
- Holsey, Arthur, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Cultivator. No. 1,319,474; Oct. 21; v. 267; p. 433.
- Holsey, Walter R., Corsicana, Tex. Knee-pad. No. 1,296,522; Mar. 4; v. 260; p. 158.
- Holslag, Claude J., Peekskill, N. Y. Alternating-current welding-transformer. No. 1,305,360; June 3; v. 263; p. 25.
- Holslag, Claude J., Peekskill, N. Y. Alternating-current welding-transformer. No. 1,305,361; June 3; v. 263; p. 25.
- Holslag, Claude J., Peekskill, N. Y. Electric-arc welding, cutting, and repairing. No. 1,305,362; June 3; v. 263; p. 25.
- Holslag, Claude J., Peekskill, N. Y. Alternating-current metallic-arc cutting and welding apparatus. No. 1,305,363; June 3; v. 263; p. 25.
- Holslag, Claude J., South Orange, N. J. Mask for use in arc-welding or allied work. No. 1,305,364; June 3; v. 263; p. 25.
- Holslag, Claude J., South Orange, N. J. Electric-arc perforating, cutting, or reducing electrode. No. 1,321,309; Nov. 11; v. 268; p. 243.
- Holst, Lodewyk, J. R. (See Brock and Holst.)
- Holst, Lodewyk J. R., assignor to A. Brock, Jr., Philadelphia, Pa. Film-support for cameras. No. 1,315,307; Sept. 9; v. 266; p. 162.
- Holst, Lodewyk J. R., and N. Pedersen, assignors to A. Brock, Jr., Philadelphia, Pa. Camera mechanism. No. 1,311,447; July 29; v. 264; p. 764.
- Holstein, John V. (See Paul and Holstein.)
- Holt Auto Devices Company. (See Holt, Edward E., assignor.)
- Holt, Benjamin, Stockton, Calif. Endless-chain track for tractors. No. 1,314,649; Sept. 2; v. 266; p. 33.
- Holt, Benjamin, Stockton, Calif. Tractor-truck mechanism. No. 1,317,650; Sept. 30; v. 266; p. 698.
- Holt, Charles L., assignor to Holt Roof Connection Co., Lawrence, Mass. Roof connection. No. 1,322,189; Nov. 18; v. 268; p. 459.
- Holt, Clarence T., Middlesex borough, assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Positioning device for metal-working machines. No. 1,293,096; Feb. 4; v. 259; p. 29.
- Holt, Daniel S., assignor to Strathmore Paper Company, Mittleague, Mass. Weighing apparatus. No. 1,317,135; Sept. 23; v. 266; p. 564.
- Holt, Daniel S., assignor to Strathmore Paper Company, Mittleague, Mass. Timing apparatus. No. 1,326,895; Dec. 30; v. 269; p. 849.
- Holt, Edward E., Chicago, Ill. Tire-valve and the like. No. 1,321,701; Nov. 11; v. 268; p. 334.
- Holt, Edward E., assignor to Holt Auto Devices Company, Chicago, Ill. Tire-valve and the like. No. 1,314,650; Sept. 2; v. 266; p. 33.
- Holt, Edward E., assignor to Holt Auto Devices Company, Chicago, Ill. Valve-cap and the like. No. 1,318,873; Oct. 14; v. 267; p. 292.
- Holt, Frank A., Rochdale, and G. Kershaw, Whitworth, England. Thread or yarn tension device and clearer. No. 1,311,448; July 29; v. 264; p. 764.
- Holt, Harold E. S., Farnborough, England. Safety-razor. No. 1,296,080; Mar. 4; v. 260; p. 60.
- Holt, Harold E. S., Farnborough, England. Aerial illuminating device. No. 1,312,499; Aug. 5; v. 265; p. 121.
- Holt, Henry S. A., and G. Steimmig, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing substances resembling caoutchouc. No. 1,294,662; Feb. 18; v. 259; p. 460.
- Holt, Herbert, and A. Seeley, Rochdale, England. Spindle or holder for cones for winding-machines. No. 1,306,256; June 10; v. 263; p. 226.
- Holt, John W. (See Sahler, Emil, assignor.)
- Holt, John W. (See Sahler and Holt.)
- Holt, Josephine L., Portland, Oreg. Corset. No. 1,322,018; Nov. 18; v. 268; p. 427.
- Holt Manufacturing Company, The. (See Goodman and Holden, assignors.)
- Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)
- Holt Manufacturing Company, The. (See Norelius, Emil F., assignor.)
- Holt Manufacturing Company, The. (See Norelius and Turner, assignors.)
- Holt Manufacturing Company, The. (See Turnbull, William.)
- Holt Manufacturing Company, The. (See White, Harold C., assignor.)
- Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
- Holt, Pliny E., Stockton, Calif. Traction-engine. No. 1,309,578; July 8; v. 264; p. 319.
- Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Auto-tractor. No. 1,314,651; Sept. 2; v. 266; p. 34.
- Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Truck-adaptor. No. 1,317,651; Sept. 30; v. 266; p. 698.
- Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Chain track tractor. No. 1,317,652; Sept. 30; v. 266; p. 698.
- Holt, Robert D. R., Rushville, Ind. Animal-catcher. No. 1,297,468; Mar. 18; v. 260; p. 433.
- Holt Roof Connection Co. (See Holt, Charles L., assignor.)
- Holt, Rufus A. (See Burns, John W., assignor.)
- Holt, Samuel E., Bernalillo, N. Mex. Coffee-strainer. No. 1,317,447; Sept. 30; v. 266; p. 658.
- Holt, William B., Rosemary, N. C. Shuttle-binder. No. 1,316,551; Sept. 16; v. 266; p. 407.



- Holthoff, Henry C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Liquid rheostat. No. 1,309,802; July 15; v. 264; p. 396.
- Holton, Birchard E., Los Angeles, Cal. Air-brush. No. 1,292,318; Jan. 21; v. 258; p. 608.
- Holton, Edward, Calgary, Alberta, Canada. Automobile-hood clip. No. 1,310,286; July 15; v. 264; p. 485.
- Holton, F. E., et al., trustees. (See Chalmers, Charles H., assignor.)
- Holtsinger, Francis A., Ottumwa, Iowa. Laundry-machine. No. 1,310,657; July 22; v. 264; p. 584.
- Holtzhauser, Charles, assignor to La Societe de Construction des Batignolles, Paris, France. Smooth-bore gun. No. 1,309,202; July 8; v. 264; p. 248.
- Holtzman, George H., assignor of one-fourth to J. J. Bulger, Wichita, Kans. Automobile-door handle. No. 1,314,400; Aug. 26; v. 265; p. 567.
- Holtzman, John. (See Kover and Holtzman.)
- Holub, Alexander, New York, N. Y. Wrench. No. 1,322,240; Nov. 18; v. 268; p. 469.
- Holub, Charles J., assignor to The Lamneck Company, Columbus, Ohio. Means for uniting pipe-sections. No. 1,324,897; Dec. 16; v. 269; p. 422.
- Holub, Walter, La Salle, Ill. Shoe-stretcher. No. 1,307,778; June 24; v. 263; p. 569.
- Holveck, Joseph E., Pittsburgh, Pa. Valve loading and unloading device. No. 1,316,794; Sept. 23; v. 266; p. 500.
- Holwick, Daniel L., Canton, Ohio. Combined stool and stepladder. No. 1,320,008; Oct. 28; v. 267; p. 557.
- Holy, George H. F. (See Eaton and Holy.)
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Core member for dynamo-electric machines. No. 1,305,604; June 3; v. 263; p. 73.
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Resilient driving connection. No. 1,306,543; June 10; v. 263; p. 278.
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Bearing. No. 1,314,518; Sept. 2; v. 266; p. 8.
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 1,317,296; Sept. 30; v. 266; p. 630.
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Journal-box for dynamo-electric machines. No. 1,323,281; Dec. 2; v. 269; p. 11.
- Holyoke Machine Company. (See Frink, Herbert J., assignor.)
- Holyoke Machine Company. (See Lombard, Nathaniel, assignor.)
- Holyoke Truck Company. (See Whalley, Enoch, assignor.)
- Holzhausen, John H., Milwaukee, Wis. Spring-motor. No. 1,308,712; July 1; v. 264; p. 129.
- Holzwarth, Edward, Miller, S. D. Multiple gun. No. 1,311,860; July 29; v. 264; p. 840.
- Homan, F. J. (See Doughty, Charles, assignor.)
- Homan, Louis V., South Dartmouth, Mass. Door-operating mechanism. No. 1,315,308; Sept. 9; v. 266; p. 162.
- Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Casting mechanism for typographical machines. No. 1,290,201; Jan. 7; v. 258; p. 45.
- Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,321,744; Nov. 11; v. 268; p. 325.
- Home, John G., St. Augustine, Fla. Hat, bag, and program holder. No. 1,292,779; Jan. 28; v. 258; p. 739.
- Hominuk, Andrew, Lethbridge, Alberta, Canada. Washstand. No. 1,320,553; Nov. 4; v. 268; p. 37.
- Hominuke, James W., Lethbridge, Alberta, Canada. Foldable table and valise. No. 1,292,468; Jan. 28; v. 258; p. 664.
- Homme, Andrew K., Warroad, Minn. Bear-trap. No. 1,295,318; Feb. 25; v. 259; p. 633.
- Hommel, Joseph M., Detroit, Mich. Leaf-spring spreader. No. 1,294,663; Feb. 18; v. 259; p. 460.
- Homrig, George, Denver, Colo. Paper-cutter for office use. No. 1,322,571; Nov. 25; v. 268; p. 583.
- Homrighausen, William F., San Leandro, Calif. Wrench. No. 1,320,230; Oct. 28; v. 267; p. 597.
- Honea, Walter C. (See Currie, Emerson, assignor.)
- Honeywell, Newall A., and C. O. McKaig, Inglewood, Calif. Ignition and starter control for automobiles. No. 1,309,135; July 8; v. 264; p. 236.
- Honhorst, William C., Newport, Ky. Steel alloy. No. 1,313,894; Aug. 26; v. 265; p. 469.
- Honig, Gustav, Dallas, Tex. Mail-box. No. 1,293,439; Feb. 4; v. 259; p. 108.
- Honigman, Hans, Duluth, Minn. Amusement device. No. 1,326,592; Dec. 30; v. 269; p. 793.
- Hons, Henry F., Jr., San Francisco, Calif. Transmission-band. No. 1,322,111; Nov. 18; v. 268; p. 444.
- Hook, Emmett H., St. Louis, Mo. Envelop. No. 1,303,063; May 6; v. 262; p. 111.
- Hood, Charles F., Connellsville, Pa. Fumigator. No. 1,325,291; Dec. 16; v. 269; p. 496.
- Hood, Dewitt. (See Simpson and Hood.)
- Hood, Ernest K. (See Wolf and Hood.)
- Hood, Ernest K., Indianapolis, Ind., assignor to The American Machine Co., Chicago, Ill. Slicing-machine. No. 1,311,847; July 29; v. 264; p. 838.
- Hood, Ernest K., Indianapolis, Ind., and W. B. Wolf, assignors to The American Slicing Machine Co., Chicago, Ill. Sharpener for slicing-machine knives. No. 1,310,700; July 22; v. 264; p. 592.
- Hood, George J., Lawrence, Kans., assignor to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for recording designations on photographic elements. No. 1,323,364; Dec. 2; v. 269; p. 27.
- Hood, George M. (See Liggett and Hood.)
- Hood, Matt E. (See Franklin, Henry T., assignor.)
- Hood, Grover C., Dilworth, Okla. Clearing-rod for firearms. No. 1,325,292; Dec. 16; v. 269; p. 496.
- Hood, Henry, Philadelphia, Pa. Band-puller. No. 1,325,942; Dec. 23; v. 269; p. 634.
- Hood, James B., Sheffield, England. Locking-nut for bolts. No. 1,324,822; Dec. 16; v. 269; p. 409.
- Hooghiemstra, Jurgen S., Delft, Netherlands. Electro-pneumatic acoustic apparatus. No. 1,318,874; Oct. 14; v. 267; p. 293.
- Hooker, Duncan C., Farmington, assignor to The Johns-Pratt Company, Hartford, Conn. Knock-out for electrical boxes. No. 1,295,168; Feb. 25; v. 259; p. 599.
- Hooker Electrochemical Company. (See Townsend, Clinton P., assignor.)
- Hooker, Rufus B., Stephenville, Tex. Knee-protector. No. 1,309,627; July 15; v. 264; p. 365.
- Hooker, Thomas E., Dos Palos, Calif. Cream-cooler. No. 1,308,357; July 1; v. 264; p. 64.
- Hooker, William T., New York, N. Y. Packaging bricks for transportation. No. 1,307,255; June 17; v. 263; p. 441.
- Hookless Fastener Company. (See Sundback, Gideon, assignor.)
- Hoon, Levi S., assignor of one-half to G. C. Bellis, Butler, Pa. Cleaning oil-wells. No. 1,325,293; Dec. 16; v. 269; p. 497.
- Hooper, Edward J., Stoughton, Mass., assignor, by mesne assignments, to B. W. Cary, Winchester, Mass. Rubber heel. (Reissue.) No. 1,4596; Feb. 25; v. 259; p. 753.
- Hooper, Frederick E. (See White and Hooper.)
- Hooper, James G., and F. R. Hobley, Van, near Llanidloes, Wales. Electrical indicator and like apparatus. No. 1,308,590; July 1; v. 264; p. 106.
- Hooper, John C., and A. Knell, Jr., Baltimore, Md. Hose-pipe coupling. No. 1,295,503; Feb. 25; v. 259; p. 676.
- Hooper, Thomas D., Jr., Philadelphia, Pa. Lettering-machine. No. 1,292,319; Jan. 21; v. 258; p. 608.
- Hooper, Thomas D., Jr., Philadelphia, Pa. Lettering-machine. No. 1,292,320; Jan. 21; v. 258; p. 609.
- Hooper, William H., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on and moistening parts of shoes. No. 1,291,888; Jan. 21; v. 258; p. 502.
- Hoopes, Russell, West Chester, Pa. Wheel. No. 1,310,189; July 15; v. 264; p. 467.
- Hoops, Emmett G., deceased, Tacoma, Wash.; J. W. Hoops, administrator. Indicator. No. 1,321,441; Nov. 11; v. 268; p. 269.
- Hoops, Herman H., New York, N. Y. Portable potato-bin. No. 1,317,577; Sept. 30; v. 266; p. 684.
- Hoops, J. W., administrator. (See Hoops, Emmett G.)
- Hoops, Walter W., Chicago, Ill. Automobile-body. No. 1,297,467; Mar. 18; v. 260; p. 432.
- Hooven Radiator Co. (See Sperry, Charles F., assignor.)
- Hoover, Charles R. (See Lamb and Hoover.)
- Hoover, Charles E., assignor to A. M. Dellinger, Lancaster, Pa. Washing-machine. No. 1,292,780; Jan. 28; v. 258; p. 739.
- Hoover, Charles O., Denver, Colo., assignor, by mesne assignments, to J. D. and L. F. Lumaghi and R. D. Hutton, trustees. Apparatus for treating material containing condensable volatile matter. No. 1,305,109; May 27; v. 262; p. 597.
- Hoover, Clair G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Bead-anchorage. No. 1,320,617; Nov. 4; v. 268; p. 49.
- Hoover, David B., Pottstown, Pa. Screen for stone, slag, or the like. No. 1,314,194; Aug. 26; v. 265; p. 526.
- Hoover, Edgar B., Pasco, Wash. Ore-separator. No. 1,317,790; Oct. 7; v. 267; p. 25.
- Hoover, Frank E., Gebo, Wyo. Dam for irrigating-ditches. No. 1,315,726; Sept. 9; v. 266; p. 237.
- Hoover, George A., Sallisaw, Okla. Spring-mounting. No. 1,298,716; Apr. 1; v. 261; p. 22.
- Hoover, George A., Sallisaw, Okla. Phonograph arm and horn attachment. No. 1,306,182; June 10; v. 263; p. 209.
- Hoover, Herbert W. (See Hoover, Howard E. and H. W.)
- Hoover, Herbert W., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Brush-supporting device for suction-cleaners. No. 1,309,092; July 8; v. 264; p. 228.
- Hoover, Herbert W., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Brush-driving device for suction-cleaners. No. 1,309,093; July 8; v. 264; p. 229.



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- Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Brush-support for suction-cleaners. No. 1,324,195; Dec. 9; v. 269; p. 227.
- Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Fiber bearing. No. 1,325,849; Dec. 23; v. 269; p. 617.
- Hoover, Howard E., Chicago, Ill., and H. W. Hoover, assignor to Hoover Suction Sweeper Company, New Berlin, Ohio. Bag and attachment for suction-cleaners. No. 1,319,079; Oct. 21; v. 267; p. 357.
- Hoover, Jacob B., Columbus, Ohio. Diestock. No. 1,320,756; Nov. 4; v. 268; p. 74.
- Hoover, Onal D. (See Hoover, Von W. and O. D.)
- Hoover Suction Sweeper Company, The. (See Hoover, Herbert W., assignor.)
- Hoover Suction Sweeper Company, The. (See Hoover, Howard E., assignor.)
- Hoover Suction Sweeper Company. (See Hoover, Howard E. and H. W., assignors.)
- Hoover, Von W. and O. D., Markle, Ind. Combined latch and lock. No. 1,296,393; Mar. 4; v. 260; p. 131.
- Hopcraft, Lewis, London, England. Handle for lifting-jacks. No. 1,324,898; Dec. 16; v. 269; p. 422.
- Hope, Carl A., Everett, Mass. Sleeping-case. No. 1,324,009; Dec. 2; v. 269; p. 148.
- Hope, Henry D., Birmingham, England. Pivot for swinging casements. No. 1,321,442; Nov. 11; v. 268; p. 269.
- Hope, Herbert J., Sanford, Me. Pile-fabric loom. No. 1,295,898; Mar. 4; v. 260; p. 18.
- Hope, Herbert J., Sanford, Me. Pile-fabric loom. No. 1,298,949; Apr. 1; v. 261; p. 77.
- Hope, Herbert J., Sanford, Me. Pile-fabric loom. No. 1,304,879; May 27; v. 262; p. 553.
- Hope, Herbert J., Sanford, Me. Pile fabric and making the same. No. 1,317,704; Oct. 7; v. 267; p. 9.
- Hope, Herbert J., Sanford, Me. Making pile fabrics. No. 1,319,709; Oct. 28; v. 267; p. 500.
- Hope, Herbert J., Sanford, Me. Pile fabric and making same. No. 1,319,710; Oct. 28; v. 267; p. 500.
- Hope, John B., Bedford, England. Bomb-fuse. No. 1,326,266; Dec. 30; v. 269; p. 731.
- Hope, John F. (See Hope, John T., assignor.)
- Hope, John T., assignor to J. F. Hope, Kansas City, Mo. Drying apparatus. No. 1,299,470; Apr. 8; v. 261; p. 223.
- Hope-Jones, Cecil, administratrix. (See Hope-Jones, Robert.)
- Hope-Jones, Robert, deceased; C. Hope-Jones, temporary administratrix, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Expressive action for musical instruments. No. 1,292,321; Jan. 21; v. 258; p. 609.
- Hope-Jones, Robert, deceased; C. Hope-Jones, temporary administratrix, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Piano-key mechanism. No. 1,301,267; Apr. 22; v. 261; p. 673.
- Hope-Jones, Robert, deceased; C. Hope-Jones, temporary administratrix, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Mechanism for producing sforzando effects in organ-playing. No. 1,325,294; Dec. 16; v. 269; p. 497.
- Hope Natural Gas Company. (See Cooper, Howell C., assignor.)
- Hope Natural Gas Company. (See Garner, James B., assignor.)
- Hope Natural Gas Company. (See Garner and Cooper, assignors.)
- Hope Natural Gas Company. (See Zimmers, Jessop, Koenig, and Garner, assignors.)
- Hope, William H., Providence, R. I. Cloth or paper printing machine. No. 1,310,658; July 22; v. 264; p. 584.
- Hope, William H., Providence, R. I. Preparing rolls for cloth-printing. No. 1,310,659; July 22; v. 264; p. 585.
- Hope, William H., Providence, R. I. Machine for cutting markings on scale-beams. No. 1,321,637; Nov. 11; v. 268; p. 305.
- Hopedale Manufacturing Company. (See Draper and Northrop, assignors.)
- Hopedale Manufacturing Company. (See Grandmaison, Joseph, assignor.)
- Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
- Hopedale Manufacturing Company. (See Roper, Walter F., assignor.)
- Hopedale Manufacturing Company. (See Roper and Conant, assignors.)
- Hopfgarten, Phillip B., Spokane, Wash. Hood clamp and holder. No. 1,314,595; Sept. 2; v. 266; p. 23.
- Hopfield, Lewis D., Natoma, assignor of one-half to G. E. Sibbert, San Francisco, Calif. Dredge-bucket lip. No. 1,310,570; July 22; v. 264; p. 568.
- Hopkins, Arthur C., Minneapolis, Minn., assignor to Mid-West Manufacturing Company, Sioux Falls, S. D. Combined automobile jack and ambulance. No. 1,303,318; May 13; v. 262; p. 187.
- Hopkins, Arthur C., assignor to Mid-West Manufacturing Company, Minneapolis, Minn. Commutator. No. 1,311,894; Aug. 5; v. 265; p. 8.
- Hopkins, Arthur G., Springfield, Ill. Cleaning and polishing composition. No. 1,319,475; Oct. 21; v. 267; p. 433.
- Hopkins, Charles E., New York, N. Y. Stereotype-metal conveyor. No. 1,313,895; Aug. 26; v. 265; p. 469.
- Hopkins, Charles E., Washington, D. C. Resilient tire. No. 1,315,837; Sept. 9; v. 266; p. 257.
- Hopkins, Charles E., Washington, D. C. Cigarette-maker. No. 1,315,838; Sept. 9; v. 266; p. 258.
- Hopkins, Edwin S., Jr., New York, N. Y. Modified vli-graphic record and process. No. 1,302,367; Apr. 29; v. 261; p. 914.
- Hopkins, Frank H., Somerville, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Pressure-regulating device. No. 1,305,365; June 3; v. 263; p. 25.
- Hopkins, Frank H., Somerville, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Fluid-regulator. No. 1,309,203; July 8; v. 264; p. 248.
- Hopkins, Frank H., Somerville, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Intermittent-grip device. No. 1,312,787; Aug. 12; v. 265; p. 208.
- Hopkins, John E., et al. (See Watkins, Joseph W., assignor.)
- Hopkins, John H., Pomona, Calif. Multiplying-key for adding-machines. No. 1,320,618; Nov. 4; v. 268; p. 49.
- Hopkins, Julius W., Cleveland, Ohio. Electric oven. No. 1,294,269; Feb. 11; v. 259; p. 333.
- Hopkins, Mark, and C. Brunkhurst, Middletown, assignors to Borden's Condensed Milk Company, New York, N. Y. Method of aerating liquescent material and machine for the purpose. No. 1,308,004; July 8; v. 264; p. 192.
- Hopkins, Milton S., Chicago, Ill. Toy aeroplane. No. 1,318,447; Oct. 14; v. 267; p. 211.
- Hopkins, Morton K., assignor to J. L. Kennedy, Chicago, Ill. Fusible link. No. 1,308,075; July 1; v. 264; p. 13.
- Hopkins, Peter J. (See La Mar and Hopkins.)
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Recording system and apparatus. No. 1,309,287; July 8; v. 264; p. 264.
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Recording system and apparatus. No. 1,309,413; July 8; v. 264; p. 286.
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Signaling system. No. 1,311,649; July 29; v. 264; p. 801.
- Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Recording system and apparatus. No. 1,308,772; July 8; v. 264; p. 168.
- Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Detector device. No. 1,309,286; July 8; v. 264; p. 264.
- Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Relay. No. 1,311,648; July 29; v. 264; p. 801.
- Hopkins, Robert E., et al. (See Duryea, William C., assignor.)
- Hopkins, Roy S., Washington, D. C. Automatic-focus camera-support. No. 1,325,154; Dec. 16; v. 269; p. 470.
- Hopkins, Roy V., Lamoni, Iowa. Combined envelop and letter-sheet. No. 1,291,889; Jan. 21; v. 258; p. 502.
- Hopkins, Walter I., Washington, D. C. Rim-lock. No. 1,324,252; Dec. 9; v. 269; p. 238.
- Hopkins, William A. (See Stebbins and Hopkins.)
- Hopkinson, Alfred, Hyde, England. Apparatus for milling screw-threads. No. 1,292,781; Jan. 28; v. 258; p. 739.
- Hopkinson, Ernest, East Orange, N. J. Manufacturing sheet-glass. No. 1,305,286; June 3; v. 263; p. 11.
- Hopkinson, Ernest, New York, N. Y. Making pneumatic tires. No. 1,305,801; June 3; v. 263; p. 108.
- Hopkinson, Ernest, New York, N. Y. Machine for building pneumatic-tire casings. No. 1,310,701; July 22; v. 264; p. 592.
- Hopkinson, Ernest, New York, N. Y. Tire-making and apparatus therefor. No. 1,312,505; Aug. 5; v. 265; p. 123.
- Hopkinson, Ernest, New York, N. Y. Apparatus for manufacturing pneumatic tires for vehicles. No. 1,317,637; Sept. 30; v. 266; p. 699.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Scale. No. 1,291,890; Jan. 21; v. 258; p. 502.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Grinder device for meat-slicers. No. 1,308,786; July 8; v. 264; p. 171.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Pendulum-scale. No. 1,316,576; Sept. 23; v. 266; p. 459.
- Hoppe, George O., Charlotte, Ill. Means for locking marker-arms of seed-plotters. No. 1,294,270; Feb. 11; v. 259; p. 333.
- Hoppel, Edward F. (See Brewer and Hoppel.)



- Hoppe, Alfred G., *et al.* (See Greenstreet, Milfred L., assignor.)
- Hopson, William T., Lexington, Miss. Bridle. No. 1,296,806; Mar. 11; v. 260; p. 259.
- Hopwood, John M., Dormont, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Grate-bar. No. 1,302,368; Apr. 29; v. 261; p. 914.
- Hopwood, John M., Dormont, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Fuel-support for furnaces. No. 1,319,584; Oct. 21; v. 267; p. 454.
- Hopwood, John M., Dormont, assignor to D. S. Wolcott, trustee, Sewickley, Pa. Boiler-furnace. No. 1,326,197; Dec. 30; v. 269; p. 718.
- Hoque, James V., Long Beach, Calif. Direction-indicator for motor-driven vehicles. No. 1,322,239; Nov. 18; v. 268; p. 468.
- Horák, Jeremiah, Chicago, Ill. Automatic life-saving device. No. 1,306,011; June 10; v. 263; p. 177.
- Horan, John B., assignor to J. A. Hanlon, Pittsburgh, Pa. Work-holder for coated articles. No. 1,290,202; Jan. 7; v. 258; p. 46.
- Horan, Maurice, assignor to Waterbury Mfg. Co., Waterbury, Conn. Buffing-machine attachment. No. 1,295,031; Feb. 18; v. 259; p. 544.
- Horan, Timothy E., Ilion, N. Y. Firearm. No. 1,318,080; Oct. 7; v. 267; p. 79.
- Hörbye, Christian. (See Halvorsen and Hörbye.)
- Horgan, James P., Littleton, N. H. Gas-generating oil-burner. No. 1,300,728; Apr. 15; v. 261; p. 523.
- Horioka, Hidesaku, K. Shibata, and T. Hiro, Denver, Colo. Cooker for use on boats. No. 1,292,782; Jan. 28; v. 258; p. 740.
- Horii, Kazuo, Hokkaido, Japan. Resuscitating spent dry cells. No. 1,311,559; July 29; v. 264; p. 785.
- Horine, Karl, Evanston, Ill. Computer. No. 1,306,379; June 10; v. 263; p. 248.
- Horiuchi, Hirotsuke, Taiwan, Japan. Vertical cylindrical water-tube boiler. No. 1,313,692; Aug. 19; v. 265; p. 397.
- Horix, Carl, Chicago, Ill., assignor to The Ludlow Typograph Company, Cleveland, Ohio. Cabinet for typograph-matrices and the like. No. 1,306,257; June 10; v. 263; p. 226.
- Hormel, August. (See Wagner and Hormel.)
- Hormel, August. (See Wagner, Hormel, and Vieau.)
- Hormes, William T., Govans, Md., assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,304,771; May 27; v. 262; p. 534.
- Hormes, William T., Govans, assignor to S. Himmel, Baltimore, Md. Spacing device for display-trays. No. 1,322,791; Nov. 25; v. 268; p. 624.
- Horn, Emil, assignor of one-half to P. E. Carroll, Marcus, Wash. Rod-packing. No. 1,321,919; Nov. 18; v. 268; p. 409.
- Horn, Harry, Brooklyn, N. Y. Stylus-guiding device. No. 1,303,900; May 20; v. 262; p. 331.
- Horn, Harry, Brooklyn, N. Y. Window-glass protector. No. 1,309,136; July 8; v. 264; p. 237.
- Horn, Hugh, San Francisco, Calif. Rotary gas-engine. No. 1,302,659; May 6; v. 262; p. 34.
- Horn, Hugo, Milwaukee, Wis. Spark-plug. No. 1,290,559; Jan. 7; v. 258; p. 132.
- Horn, Lloyd R., Little Rock, Ark. Engine-valve. No. 1,312,730; Aug. 12; v. 265; p. 196.
- Hornback, Ross W., Gardner, Colo. Rotary steam-engine. No. 1,311,818; July 29; v. 264; p. 833.
- Hornbeck, William M., Peoria, Ill. Automatic stock-feeding machine. No. 1,311,696; July 29; v. 264; p. 810.
- Hornbostel, Frederick, Brooklyn, N. Y. Pool-ball triangle. No. 1,299,471; Apr. 8; v. 261; p. 223.
- Hornbrook, Philip R., Chicago, Ill. Hydraulic transmission. No. 1,304,566; May 27; v. 262; p. 496.
- Hornby, Albert E., Rhyl, Wales. Flushing apparatus for water-closets and the like. No. 1,304,482; May 20; v. 262; p. 441.
- Horne, James. (See Dawson and Horne.)
- Horne, James A., Philadelphia, Pa. Propeller control. No. 1,293,097; Feb. 4; v. 259; p. 29.
- Horne, James A., Denver, Colo. Aeroplane. No. 1,300,969; Apr. 15; v. 261; p. 574.
- Horne, James A., Washington, D. C. Resilient tire. No. 1,308,633; July 1; v. 264; p. 114.
- Horne, James B., St. Charles, Ill. Shock-absorber. No. 1,109,850; July 15; v. 264; p. 406.
- Horne, Lawrence W., Woodridge, and W. N. Crane, Ridgefield Park, N. J. Means for controlling the speed of trains. No. 1,293,779; Feb. 11; v. 259; p. 218.
- Horner, Frank G., Ruby, Alaska. Motor-sled. No. 1,314,666; Sept. 2; v. 266; p. 37.
- Horner, Frank G., Ruby, Alaska. Tractor-sled. No. 1,314,667; Sept. 2; v. 266; p. 37.
- Horner, Leon H., assignor to Whitin Machine Works, Whitinsville, Mass. Tension device. No. 1,298,044; Mar. 25; v. 260; p. 582.
- Horner, Lorenzo B., Hammond, Ind. Attachment for mowing-machines. No. 1,309,522; July 8; v. 264; p. 308.
- Horner, Lorenzo B., Hammond, Ind. Rail-splcee. No. 1,320,231; Oct. 28; v. 267; p. 598.
- Horney, Odus C. (See Jackson, Louis L., assignor.)
- Horni, Edward C., Dayton, Ohio. Demountable tire-rim. No. 1,299,472; Apr. 8; v. 261; p. 223.
- Hornick, Frank, Johnstown, Pa. Auto attachment. No. 1,315,126; Sept. 2; v. 266; p. 119.
- Horning, Frederick H., assignor to Swiss Magneto Company, Chicago, Ill. Starting-coupling for high-tension magnetos. No. 1,308,076; July 1; v. 264; p. 13.
- Hornik, Joseph, and J. Trautner, Milwaukee, Wis. Street-indicator. No. 1,315,501; Sept. 9; v. 266; p. 198.
- Hornsey, John W., Summit, N. J., assignor to General Reduction Gas and By-Products Company. Apparatus for treating materials. No. 1,293,780; Feb. 11; v. 259; p. 218.
- Hornung, John C., Chicago, Ill. Motion-transmitting apparatus. No. 1,312,692; Aug. 12; v. 265; p. 189.
- Horr, John V. (See Ripich and Horr.)
- Horton, Bryson D. (See Blumberg and Horton.)
- Horton, Bryson D., Detroit, Mich. Connecting device for electrical switches. No. 1,320,619; Nov. 4; v. 268; p. 49.
- Horseley, Sherman, Richmond, Mo. Lamp. No. 1,312,731; Aug. 12; v. 265; p. 196.
- Horsey, Edgar T., Cleveland, Ohio. Vulcanizer. No. 1,311,560; July 29; v. 264; p. 785.
- Horsley, Robert L., Memphis, Tenn., assignor to Compress Buckle Company, Port Worth, Tex. Insect-swatter. No. 1,290,998; Jan. 14; v. 258; p. 261.
- Horst, Emil, Co., San Francisco, Cal. Drier. No. 1,291,891; Jan. 21; v. 258; p. 503.
- Horst, Emil C., San Francisco, Cal. Drier. No. 1,294,804; Feb. 18; v. 259; p. 493.
- Horst, Emil C., San Francisco, Cal. Drier. No. 1,294,805; Feb. 18; v. 259; p. 493.
- Horst, Emil C., San Francisco, Calif. Peeling food products. No. 1,325,847; Dec. 23; v. 269; p. 617.
- Horst, Emil C., San Francisco, Calif. Drier. No. 1,325,848; Dec. 23; v. 269; p. 616.
- Horstmann, Frederick W., Kearney, N. J. Indicating-caliper. No. 1,300,837; Apr. 15; v. 261; p. 547.
- Horter, Charles M. (See Pierce, Robert F., assignor.)
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,292,605; Jan. 28; v. 258; p. 699.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Resistance. No. 1,293,440; Feb. 4; v. 259; p. 108.
- Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,303,319; May 13; v. 262; p. 187.
- Horton, Allen A., Highland Park, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,308,787; July 8; v. 264; p. 171.
- Horton, Allen A., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,323,475; Dec. 2; v. 269; p. 48.
- Horton, Allen A., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,326,504; Dec. 30; v. 269; p. 776.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,308,423; July 1; v. 264; p. 76.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,308,424; July 1; v. 264; p. 76.
- Horton, Bryson, Detroit, Mich. Fastening device for conduits and the like. No. 1,310,190; July 15; v. 264; p. 467.
- Horton, Floyd H., Atlanta, Ind. Broom-holder. No. 1,297,351; Mar. 18; v. 260; p. 409.
- Horton, George T., Chicago, Ill. Water-tank. (Reissue.) No. 14,775; Dec. 23; v. 269; p. 674.
- Horton, Howard L., Pompton Lakes, N. J. Sash-holder. No. 1,326,345; Dec. 30; v. 269; p. 745.
- Horton, James A., Belmont, assignor to Clinton Wire Cloth Company, Boston, Mass. Inverted drum for wire-drawing machines. No. 1,291,892; Jan. 24; v. 258; p. 503.
- Horton, James A., Belmont, Mass., assignor, by mesne assignments, to Clinton-Wright Wire Company. Wire-drawing machine. No. 1,323,282; Dec. 2; v. 269; p. 11.
- Horton, Ralph D. (See Tewsley and Horton.)
- Horton, William M., assignor to Adams-Bagnall Electric Company, Cleveland, Ohio. Making cups or casings for electric-light fixtures. No. 1,298,717; Apr. 1; v. 261; p. 22.
- Horton, William M., assignor to The Adams-Bagnall Electric Co., Cleveland, Ohio. Electric signaling device. No. 1,303,901; May 20; v. 262; p. 331.
- Horton, William M., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Electrically-operated reflector for automobile-headlights. No. 1,321,443; Nov. 11; v. 268; p. 269.
- Horton, William M., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Automobile-headlight. No. 1,321,444; Nov. 11; v. 268; p. 270.
- Horton, William M., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Automobile-headlight. No. 1,321,445; Nov. 11; v. 268; p. 270.
- Horton, William M., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Electric horn. No. 1,321,446; Nov. 11; v. 268; p. 270.



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- Horton, William M., assignor to Adams-Bagnall Electric Company, Cleveland, Ohio. Lamp. No. 1,321,447; Nov. 11; v. 268; p. 270.
- Horvath, Geza, Highland Park, Mich. Radiator-tubing. No. 1,294,465; Feb. 18; v. 259; p. 415.
- Horvath, Joseph, Detroit, Mich. Filler cap and lubricator. No. 1,290,999; Jan. 14; v. 258; p. 261.
- Horvath, Joseph, Detroit, Mich. Lubricator. No. 1,291,000; Jan. 14; v. 258; p. 262.
- Horwitz, David L., New York, N. Y. Toilet-seat cover and container. No. 1,291,001; Jan. 14; v. 258; p. 262.
- Hosbein, Louis H., assignor to M. H. Detrick Co., Chicago, Ill. Furnace-arch construction. No. 1,309,435; July 8; v. 264; p. 291.
- Hosceit, William J., Chicago, Ill. Door-lock mechanism. No. 1,311,561; July 29; v. 264; p. 785.
- Hosceit, William J., Chicago, Ill. Locking mechanism for doors. No. 1,311,562; July 29; v. 264; p. 786.
- Hosceit, William J., Chicago, Ill. Convertible car. No. 1,324,966; Dec. 16; v. 269; p. 435.
- Hosch, Annie M., administratrix. (See Hosch, Walter E.)
- Hosch, Walter E., assignor to The Measuregraph Company, St. Louis, Mo. Cloth measuring and computing machine. No. 1,298,162; Mar. 25; v. 260; p. 607.
- Hosch, Walter E., deceased; A. M. Hosch, administratrix; assignor to The Measuregraph Company, St. Louis, Mo. Counter attachment. No. 1,312,693; Aug. 12; v. 265; p. 189.
- Hosch, Walter E., deceased, A. M. Hosch, administratrix, assignor to The Measuregraph Company, St. Louis, Mo. Measuring or computing machine. No. 1,323,862; Dec. 2; v. 269; p. 120.
- Hoschek, Achille J. O., Brooklyn, N. Y. Truss. No. 1,302,369; Apr. 29; v. 261; p. 914.
- Hose, Henry G., Brooklyn, N. Y. Butt-end composition shingles for roofing and the like. No. 1,310,082; July 15; v. 264; p. 448.
- Hosea, Luzena, Indianapolis, Ind. Athletic belt. No. 1,312,400; Aug. 5; v. 265; p. 102.
- Hosfeldt, Arthur D., Portland, Oreg. Paper-roll fixture. No. 1,310,019; July 15; v. 264; p. 437.
- Hosford, William F., Oak Park, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated. Electric welding-machine for forming electrical contacts. No. 1,292,892; Jan. 28; v. 258; p. 766.
- Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine for metal-working. No. 1,298,718; Apr. 1; v. 261; p. 23.
- Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming electrical contacts. No. 1,309,523; July 8; v. 264; p. 308.
- Hoshida, Seijiro, Seattle, Wash. Ice-cream-cone machine. No. 1,301,697; Apr. 22; v. 261; p. 756.
- Hosinger, George N., Jersey City, N. J. Stylographic pen. No. 1,299,576; Apr. 8; v. 261; p. 246.
- Hosken, William H., Warland, Mont. Slaughtering apparatus. No. 1,313,383; Aug. 19; v. 265; p. 339.
- Hoskins, Frank E., *et al.* (See Franklin, George E., assignor.)
- Hoskins, William, Chicago, Ill., assignor to The Best Brothers Keene's Cement Company, Medicine Lodge, Kans. Manufacture of quick-setting Keene's cement. No. 1,300,269; Apr. 15; v. 261; p. 426.
- Hoskins, William, Chicago, Ill. Art of recovering potash. No. 1,307,127; June 17; v. 263; p. 418.
- Hosley, Bert F., Syracuse, N. Y. Non-skid-chain-fastening means. No. 1,318,081; Oct. 7; v. 267; p. 80.
- Hosman, Arley L., Cartersville, Mo. Combined hoeing and cotton-chopping machine. No. 1,299,346; Apr. 1; v. 261; p. 166.
- Hossfeld, Albert, Lewistown, Minn. Tongs for picking up potatoes and the like. No. 1,316,157; Sept. 16; v. 266; p. 331.
- Hossie, Frank C., *et al.* (See Hamm, Phillip T., assignor.)
- Hostad, Olaf, Detroit, Mich. Shoe-cleaning machine. No. 1,307,670; June 24; v. 263; p. 549.
- Hostetler, Claude B., Ostrander, Ohio. Dental tool. No. 1,297,352; Mar. 18; v. 260; p. 409.
- Hotchkin, Paul M., assignor to National X-Ray Reflector Co., Chicago, Ill. Lighting-fixture. No. 1,318,757; Oct. 14; v. 267; p. 270.
- Hotchkin, Paul M., Chicago, Ill., assignor to Curtis-Leger Fixture Co. Leg attachment for forms. No. 1,318,758; Oct. 14; v. 267; p. 270.
- Hotchkin, Paul M., Chicago, Ill., assignor to Curtis-Leger Fixture Co. Attitude-figure for use in displaying garments and wearing-apparel. No. 1,318,759; Oct. 14; v. 267; p. 271.
- Hotchkiss, Wallace J., Alpena, S. D. Food-container or lunch-box. No. 1,310,571; July 22; v. 264; p. 568.
- Hotchner, Joseph, San Francisco, Cal. Illuminated sign. No. 1,295,826; Feb. 25; v. 259; p. 752.
- Hotchner, Joseph, San Francisco, Calif. Illuminated sign. No. 1,315,187; Sept. 2; v. 266; p. 130.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Cover-seal. No. 1,295,032; Feb. 18; v. 259; p. 544.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. No. 1,304,772; May 27; v. 262; p. 534.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Friction-top can. No. 1,309,628; July 15; v. 264; p. 365.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Burner-stand. No. 1,310,830; July 22; v. 264; p. 617.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Lunch-box. No. 1,316,240; Sept. 16; v. 266; p. 347.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Bucket-bail. No. 1,318,384; Oct. 14; v. 267; p. 199.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Sheet-metal container. No. 1,320,757; Nov. 4; v. 268; p. 75.
- Hoting, Hans C., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Driving mechanism. No. 1,323,392; Dec. 2; v. 268; p. 32.
- Hoting, Hans C., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Fluid-conveying swinging joint. No. 1,324,967; Dec. 16; v. 269; p. 435.
- Hottell, David C., near Meeker, Colo. Ditching-machine. No. 1,317,371; Sept. 30; v. 266; p. 644.
- Hottenstein, George E., Miami, Ariz. Tire-casing. No. 1,298,213; Mar. 25; v. 260; p. 618.
- Hottinger, Robert, São Paulo, and O. Bromberg, Rio de Janeiro, Brazil. Purifying and sterilizing water. No. 1,324,118; Dec. 9; v. 269; p. 213.
- Hottmann, Charles W., Philadelphia, Pa. Drying apparatus. No. 1,302,165; Apr. 29; v. 261; p. 875.
- Hottmann, Charles W., Philadelphia, Pa. Cutting and mixing machine. No. 1,314,962; Sept. 2; v. 266; p. 89.
- Hottmann, Paul A., assignor to Freihofer Baking Company, Philadelphia, Pa. Machine for making spaghetti or similar products. No. 1,319,080; Oct. 21; v. 267; p. 357.
- Hotz, John P., Watertown, Mass. Electric fan and casing. No. 1,301,939; Apr. 29; v. 261; p. 834.
- Houchin, Alfred W., and C. E. Luburg, assignors to Shockless Electric Corporation, Kirkwood, N. J. Coil. No. 1,306,815; June 17; v. 263; p. 361.
- Houck, John C., Jr., assignor of one-half to W. J. Smith, Dorranceton, Pa. Flier wire traveler. No. 1,323,594; Dec. 2; v. 269; p. 70.
- Houck, Leo H., Wenatchee, Wash. Machine for forming concrete conduits. No. 1,302,370; Apr. 29; v. 261; p. 914.
- Houff, Jacob M., Madison, Va., assignor of one-half to P. L. Hargett, Frederick, Md. Silo-bracing system. No. 1,316,895; Sept. 23; v. 266; p. 518.
- Hough, Arthur, Dragon, Quebec, Canada. Condenser. No. 1,291,893; Jan. 21; v. 258; p. 504.
- Hough, Arthur, New York, N. Y. Condenser. No. 1,312,118; Aug. 5; v. 265; p. 50.
- Hough, Arthur, New York, N. Y. Apparatus for nitration of organic liquids. No. 1,312,119; Aug. 5; v. 265; p. 50.
- Hough, Arthur, New York, N. Y. Condenser for nitric acid vapors. No. 1,326,267; Dec. 30; v. 269; p. 732.
- Hough, Azel C., Janesville, Wis. Apparatus for attaching shades, screens, or the like. No. 1,323,393; Dec. 2; v. 268; p. 32.
- Hough, Herbert D., Cranston, assignor to Wightman & Hough Company, Providence, R. I. Cigarette-case. No. 1,301,698; Apr. 22; v. 261; p. 756.
- Hough, Samuel, Atco, N. J. Automatic feed for lathes. No. 1,297,690; Mar. 18; v. 260; p. 480.
- Hough, Samuel, Atco, N. J. Adjustable cutting-head for lathes. No. 1,301,699; Apr. 22; v. 261; p. 756.
- Houghton, Alexis C., Fayetteville, N. Y., assignor to Somet-Solvay Company, Solvay, N. Y. Manufacture of phenol. No. 1,308,757; July 8; v. 264; p. 166.
- Houghton, George W., Walsall, England. Leather bag or case. No. 1,318,276; Oct. 7; v. 267; p. 118.
- Houghton, Lewis T., Worcester, Mass. Yarn-tension mechanism. No. 1,306,148; June 10; v. 263; p. 203.
- Houghton, Lewis T., Worcester, Mass. Yarn-tension device. No. 1,303,202; May 6; v. 262; p. 138.
- Houghton, Lewis T., Worcester, Mass. Yarn-tension device. No. 1,303,320; May 13; v. 262; p. 187.
- Houghton, Nathaniel V., Alameda, Calif. Excavating-machine. No. 1,320,328; Oct. 23; v. 267; p. 615.
- Houghton, Orley C., assignor to F. C. Austin, Chicago, Ill. Transmission for motor-vehicles. No. 1,317,297; Sept. 30; v. 266; p. 630.
- Houghton, Stephen C., Pacific Grove, assignor of one-half to J. E. Bean, San Jose, Cal. Railway-signal for grade-crossings. No. 1,295,033; Feb. 18; v. 259; p. 544.
- Houghton, William M. (See Smith, Brantley, assignor.)
- Houk, Richard, assignor of one-half to M. S. Rollins, Los Angeles, Cal. Hydraulic motor for hay-presses. No. 1,290,203; Jan. 7; v. 258; p. 46.
- Houlehan, Arthur E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Apparatus for the manufacture of diphenylamin. No. 1,308,356; July 1; v. 264; p. 64.
- House, Albert B., Brooklyn, assignor to International Motor Company, New York, N. Y. Gage system for fire-engines. No. 1,316,616; Sept. 23; v. 266; p. 467.
- House, Bryan E., assignor to Pan Motor Company, St. Cloud, Minn. Brake-operating mechanism. No. 1,304,315; May 20; v. 262; p. 408.



- House Hardware Company. (See House, Thomas M., assignor.)
- House, Henry A., Jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Wheel. No. 1,313,988; Aug. 26; v. 265; p. 488.
- House, Nettie D., Modale, Iowa. Corn-shield for horses' heads. No. 1,321,448; Nov. 11; v. 268; p. 270.
- House, Thomas M., Richmond, assignor to Seward Trunk and Bag Company, Petersburg, Va. Drawer-lock. No. 1,312,032; Aug. 5; v. 265; p. 34.
- House, Thomas M., assignor to House Hardware Company, Richmond, Va. Paper-roll holder. No. 1,314,267; Aug. 26; v. 265; p. 541.
- Housekeeper, William G., Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Optiphone. No. 1,320,366; Oct. 28; v. 267; p. 623.
- Houseman, George A., El Paso, Tex. Tatting-shuttle. No. 1,306,692; June 17; v. 263; p. 339.
- Houseman, Harold E., assignor to Standard Machine Company, Philadelphia, Pa. Take-up for circular-knitting machines. No. 1,307,358; June 24; v. 263; p. 493.
- Houseman, Isaac D., Conde, S. D. Cooling device for engines. No. 1,322,443; Nov. 18; v. 268; p. 507.
- Houser, Francis W., Gering, Nebr. Trailer. No. 1,320,554; Nov. 4; v. 268; p. 37.
- Houser, Orville E., Chillicothe, Ohio. Air-compressor. No. 1,321,920; Nov. 18; v. 268; p. 409.
- Housholder, William, assignor to Robertshaw Manufacturing Company, Youngwood, Pa. Thermostatic valve. No. 1,292,469; Jan. 28; v. 258; p. 664.
- Houskeeper, William G., Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Combined metal and glass structure and forming same. No. 1,293,441; Feb. 4; v. 259; p. 109.
- Houskeeper, William G., Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Combined metal and glass structure and making same. No. 1,294,466; Feb. 18; v. 259; p. 415.
- Housman, Wilson, Elkhart, Ind. Spark-plug. No. 1,301,562; Apr. 22; v. 261; p. 729.
- Houston, Edmund M., Minneapolis, Minn., and W. A. Houston, Sioux City, Iowa. Fountain-pen. No. 1,320,393; Nov. 4; v. 268; p. 7.
- Houston, George B., and J. A. Helman, Bridgeport, Conn., assignors to The Locomobile Company of America, New York, N. Y. Bonnet for motor-cars. No. 1,299,944; Apr. 8; v. 261; p. 329.
- Houston, George D., Rushville, Ill. Three-horse evener. No. 1,305,366; June 3; v. 263; p. 26.
- Houston, George D., Rushville, Ill. Four-horse evener. No. 1,321,638; Nov. 11; v. 268; p. 305.
- Houston, Moses H., Highland Park, Ky. Revolving and folding table. No. 1,306,666; June 10; v. 263; p. 301.
- Houston, William A. (See Houston, Edmund M. and W. A.)
- Housum, Chenoweth, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Condenser. No. 1,309,803; July 15; v. 264; p. 397.
- Hovas, John N., Chicago, Ill. Shock-absorber. No. 1,294,467; Feb. 18; v. 259; p. 415.
- Hovenden, George E., *et al.* (See Pfeifer, Frank, assignor.)
- Hover, Charles F., Conrad, Mont. Mechanical movement and device. No. 1,299,184; Apr. 1; v. 261; p. 130.
- Hover, Fred S., Hyde Park, N. Y. Detector for wireless telegraphy and telephony. No. 1,318,277; Oct. 7; v. 267; p. 119.
- Hovey, Edward P., East Quogue, N. Y. Wind-shield. No. 1,298,719; Apr. 1; v. 261; p. 23.
- Hovey, Mark H. (See Clark and Hovey.)
- Hovland, Abraham N., Christiania, Norway. Relay. No. 1,293,098; Feb. 4; v. 259; p. 30.
- Hovland, Henry, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Registering system. No. 1,291,894; Jan. 21; v. 258; p. 504.
- Howard, Alexander R., *et al.* (See Eubanks, Sayers D., assignor.)
- Howard, Allen B., Staten Island, N. Y. Door-fastener. No. 1,290,560; Jan. 7; v. 258; p. 132.
- Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Reinforced paper fabric. No. 1,314,519; Sept. 2; v. 266; p. 8.
- Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,316,241; Sept. 16; v. 266; p. 347.
- Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,318,149; Oct. 7; v. 267; p. 93.
- Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,318,150; Oct. 7; v. 267; p. 93.
- Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper-reinforcing machine. No. 1,318,151; Oct. 7; v. 267; p. 93.
- Howard, Charles P. (See Howard, Frank E. and C. P.)
- Howard, Eldon C., The Plains, Ohio. Swimming device. No. 1,298,344; Mar. 25; v. 260; p. 645.
- Howard, Frank A. (See Losee and Howard.)
- Howard, Frank A., Chicago, Ill. Carburetor-valve. No. 1,315,727; Sept. 9; v. 266; p. 237.
- Howard, Frank E., assignor to James L. Howard & Company, Hartford, Conn. Manufacture of hollow metallic doors. No. 1,301,790; Apr. 22; v. 261; p. 775.
- Howard, Frank E., assignor to James L. Howard & Company, Hartford, Conn. Hollow door and fittings therefor. No. 1,316,896; Sept. 23; v. 266; p. 518.
- Howard, Frank E., assignor to James L. Howard & Company, Hartford, Conn. Fitting for metallic doors. No. 1,316,897; Sept. 23; v. 266; p. 519.
- Howard, Frank E. and C. P., assignors to James L. Howard & Company, Hartford, Conn. Lock mechanism for sliding doors. No. 1,301,789; Apr. 22; v. 261; p. 775.
- Howard, Frank E. and C. P., assignors to James L. Howard & Company, Hartford, Conn. Hollow door and fittings therefor. No. 1,326,450; Dec. 30; v. 269; p. 765.
- Howard, Frank M., *et al.* (See Kennedy, James W., assignor.) (Reissue.)
- Howard, Frank W., New York, N. Y. Umbrella. No. 1,297,469; Mar. 18; v. 260; p. 433.
- Howard, Frank W., New York, N. Y. Umbrella. No. 1,297,471; Mar. 18; v. 260; p. 433.
- Howard, Frank W., New York, N. Y. Raincoat. No. 1,316,364; Sept. 16; v. 266; p. 370.
- Howard, Frank W., New York, and F. D. Ammen, Flushing, N. Y. Umbrella rib and runner. No. 1,297,470; Mar. 18; v. 260; p. 433.
- Howard, George E., Butler, Pa. Feeding glass. No. 1,315,668; Sept. 9; v. 266; p. 226.
- Howard, Guy C., Tacoma, Wash. Process and apparatus for treating paper-pulp. No. 1,322,489; Nov. 18; v. 268; p. 516.
- Howard, Harry L., Lansing, Mich. Shears attachment for pliers. No. 1,321,745; Nov. 11; v. 268; p. 326.
- Howard, John S., Bristol, England. Valve mechanism for internal-combustion engines. No. 1,292,783; Jan. 28; v. 258; p. 740.
- Howard, Merton W., assignor to A. E. Little Company, Lynn, Mass. Peripheral-size-indicating machine. No. 1,325,943; Dec. 23; v. 269; p. 634.
- Howard, Otis W., assignor to Deere and Company, Moline, Ill. Wheeled plow. No. 1,296,081; Mar. 4; v. 260; p. 61.
- Howard, Thomas, and W. R. Williams, Owensboro, Ky.; said Williams assignor to M. E. Williams, Cincinnati, Ohio. Toy. No. 1,295,504; Feb. 25; v. 259; p. 677.
- Howard, Wallace E., Chicago, Ill. Automobile-inclosure. No. 1,313,186; Aug. 12; v. 265; p. 286.
- Howard, William R., Newport, R. I. Syringe for injecting cement in teeth. No. 1,306,816; June 17; v. 263; p. 361.
- Howarth, Mark, Padgate, England. Setting of wire, or wire-rod, drawing plates or dies. No. 1,293,442; Feb. 4; v. 259; p. 109.
- Howath, Ferdinand, Jr. (See Schulz, A. Steven, assignor.)
- Howe and Davidson Company. (See Davidson, Frank B., assignor.)
- Howe, Eugene L., Muskegon, Mich. Apparatus for use in molding. No. 1,319,869; Oct. 28; v. 267; p. 531.
- Howe, Frank D., Akron, Ohio, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Brake. No. 1,295,505; Feb. 25; v. 259; p. 677.
- Howe, Frank D., Akron, Ohio, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Brake. No. 1,295,506; Feb. 25; v. 259; p. 677.
- Howe, Frederick J., Aurora, Ill. Beading-tool. No. 1,301,940; Apr. 29; v. 261; p. 834.
- Howe, Glenn A., Portland, Oreg. Indicating-valve. No. 1,297,851; Mar. 18; v. 260; p. 615.
- Howe, Grant W., Hornepayne, Ontario, Canada. Animal-trap. No. 1,310,340; July 15; v. 264; p. 494.
- Howe, Joseph B., Worcester, assignor to G. S. Harwood & Son, Boston, Mass. Automatic feeder. No. 1,290,747; Jan. 7; v. 258; p. 177.
- Howe, Lyman H., *et al.* (See Jones, Robert W., assignor.)
- Howe Manufacturing Company. (See Bessey and Beiers, assignors.)
- Howe, Olaf L., Missoula, Mont. Water-motor. No. 1,312,326; Aug. 5; v. 265; p. 88.
- Howe, Samuel P., Merchantville, N. J., and W. D. Kerlin, Camden, N. J. Internal-combustion engine. No. 1,301,441; Apr. 22; v. 261; p. 704.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Safety device for automatic train-control systems. No. 1,291,523; Jan. 14; v. 258; p. 382.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train control. No. 1,299,945; Apr. 8; v. 261; p. 329.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system. No. 1,302,371; Apr. 29; v. 261; p. 914.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,306,380; June 10; v. 263; p. 249.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. No. 1,308,543; July 1; v. 264; p. 97.



## Alphabetical list of patentees—Continued.

- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Contact-shoe for automatic train-control systems. No. 1,308,544; July 1; v. 264; p. 97.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train control. No. 1,316,543; Sept. 16; v. 266; p. 406.
- Howe, Winthrop K., W. S. Henry, and F. N. Hall, Rochester, assignors to General Railway Signal Company, Gates, N. Y. Switch-machine. No. 1,307,200; June 17; v. 263; p. 431.
- Howell, Albert S., assignor to Bell & Howell Company, Chicago, Ill. Apparatus for perforating cinematographic films. No. 1,291,524; Jan. 14; v. 258; p. 383.
- Howell, Arthur E., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,300,216; Apr. 8; v. 261; p. 389.
- Howell, Charles B., Los Angeles, Calif. Rim expanding and contracting tool. No. 1,317,136; Sept. 23; v. 266; p. 564.
- Howell, Charles E., Yonkers, N. Y. Novelty card. No. 1,304,773; May 27; v. 262; p. 534.
- Howell, Kenneth B., East Orange, N. J., assignor to The Barrett Company. Centrifugal process and device. No. 1,294,909; Feb. 18; v. 259; p. 517.
- Howell, Robert B., Omaha, Nebr. Pipe-culking composition. No. 1,290,204; Jan. 7; v. 258; p. 46.
- Howell, Robert B., Omaha, Nebr. Pipe-joint and producing same. No. 1,290,205; Jan. 7; v. 258; p. 46.
- Howell, Samuel D., Oklahoma, Okla. Signal device. No. 1,299,473; Apr. 8; v. 261; p. 223.
- Howell, Thomas M. (See Kenley, William, assignor.)
- Howell, William C. (See Smith, Newton H., assignor.)
- Hower, John F., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Butt-end inner tube. No. 1,317,976; Oct. 7; v. 267; p. 60.
- Howerton, Rany N., Tacoma, Wash. Trolling device. No. 1,304,983; May 27; v. 262; p. 573.
- Howes, Albert A., Christchurch, New Zealand. Apparatus for making clothes-pegs. No. 1,300,614; Apr. 15; v. 261; p. 499.
- Howey, Harvey E., Granite City, Ill. Safety appliance for electrically-driven machines. No. 1,294,664; Feb. 18; v. 259; p. 460.
- Howk, Charles P., Worcester, Mass. Adjustable reamer. No. 1,290,206; Jan. 7; v. 258; p. 46.
- Howland, Harry W., Nacogdoches, Tex. Crosscut band-saw. No. 1,291,002; Jan. 14; v. 258; p. 262.
- Howland-Shearman, Charles H., Indianapolis, assignor to The United Broom Company, Kokomo, Ind. Broom-press. No. 1,324,153; Dec. 9; v. 269; p. 219.
- Howlett, Clarence W., Kokomo, Ind., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated fabric. No. 1,324,154; Dec. 9; v. 269; p. 219.
- Howlett, William E., Moline, Ill. Load-breaker. No. 1,291,895; Jan. 21; v. 258; p. 504.
- Howorth, Frederick A., et al. (See Dean, John D., assignor.)
- Howorth, Thomas E., Nashua, N. H. Picker-waste-separating machine. No. 1,299,185; Apr. 1; v. 261; p. 130.
- Howorth, Thomas E., Nashua, N. H. Process and machine for preparing fiber for dyeing. No. 1,322,695; Nov. 25; v. 268; p. 606.
- Howse, Paul D., Los Angeles, Calif. Lamp-housing. No. 1,322,490; Nov. 18; v. 268; p. 517.
- Hoy, John E., and R. P. Place, Detroit, Mich. Dirt-proof bearing. No. 1,314,748; Sept. 2; v. 266; p. 51.
- Hoy, Walter G., Chicago, Ill. Radius-rod. No. 1,302,166; Apr. 29; v. 261; p. 875.
- Hoye, Homer F., Heber Springs, Ark. Lubricator. No. 1,295,319; Feb. 25; v. 259; p. 633.
- Hoyer, Albert M., Akron, Ohio. Obstetrical saddle. No. 1,295,753; Feb. 25; v. 259; p. 734.
- Hoyle, Archie G., Decatur, Tex. Copy-holder for stenographed notes. No. 1,295,169; Feb. 25; v. 259; p. 599.
- Hoyle, Ralph A., Worcester, Mass. Apparatus for the fusion of refractory materials. No. 1,314,871; Sept. 2; v. 266; p. 73.
- Hoyt, Ezra S., Los Angeles, Calif. Automatic water-heater. No. 1,310,160; July 15; v. 264; p. 462.
- Hoyt, Homer J. (See Welton and Hoyt.)
- Hoyt, Homer J., Detroit, Mich., assignor to Morgan & Wright. Operating device for mixing-machines. No. 1,317,298; Sept. 30; v. 266; p. 630.
- Hoyt, Homer J., Detroit, Mich., assignor to Morgan & Wright. Machine for treating plastic materials. (Re-issue.) No. 14,663; June 10; v. 263; p. 305.
- Hoyt, Jackson C., Denver, Colo. Automobile-signal. No. 1,308,284; July 1; v. 264; p. 51.
- Hoyt Metal Company. (See Osborn, George W., assignor.)
- Hoyt, Milton A., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Incandescent electric lamp. No. 1,293,781; Feb. 11; v. 259; p. 218.
- Hoyt, Richard F., Philadelphia, Pa., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,298,720; Apr. 1; v. 261; p. 23.
- Hoyt, Richard H., Buffalo, N. Y. Curtain-drier. No. 1,306,693; June 17; v. 263; p. 339.
- Hoyt, Worthington. (See Seigfried, Clarence E., assignor.)
- Hozier, Charles F., Memphis, Tenn. Calculating-machine attachment. No. 1,291,525; Jan. 14; v. 258; p. 383.
- Irabovsky, Andrej, Philadelphia, Pa. Automobile-wheel. No. 1,296,665; Mar. 11; v. 260; p. 227.
- Iren, Joseph, Kingston, N. Y., and C. Eisenlohr, Newark, N. J. Machine for making paper-box blanks. No. 1,293,782; Feb. 11; v. 259; p. 219.
- Iruby, Charles C. (See Iruby, Joseph J. and C. C.)
- Iruby, Joseph J., St. Joseph, Mo. Hose-supporter. No. 1,317,876; Oct. 7; v. 267; p. 41.
- Iruby, Joseph J. and C. C., St. Joseph, Mo. Rim for automobile-tires. No. 1,291,896; Jan. 21; v. 258; p. 504.
- Hsieh, Zen, and G. Chow, Wilkesburg, Pa. Type-writer attachment. No. 1,326,346; Dec. 30; v. 269; p. 745.
- Hubbard, Alexander, London, England. Projectile. No. 1,302,167; Apr. 29; v. 261; p. 876.
- Hubbard, Arthur O., assignor to Puffer-Hubbard Manufacturing Co., Minneapolis, Minn. Folding box. No. 1,320,758; Nov. 4; v. 268; p. 75.
- Hubbard, Cecil R. (See Knoderer and Hubbard.)
- Hubbard, Cecil R., Baden, and D. M. Cooper, Ambridge, assignors to National Metal Molding Company, Pittsburgh, Pa. Electrical fitting. No. 1,310,191; July 15; v. 264; p. 468.
- Hubbard, Charles H., and G. Ruppert, assignors to A. H. Kerr, Sand Springs, Okla. Faucet for delivering molten glass. (Reissue.) No. 14,745; Oct. 28; v. 267; p. 625.
- Hubbard, Eber J., Berwyn, Ill. Spool. No. 1,293,443; Feb. 4; v. 259; p. 109.
- Hubbard, James W., Eau Claire, Wis. Ticket-printing machine. No. 1,324,673; Dec. 9; v. 269; p. 319.
- Hubbard, Joseph D. (See Ashenhurst, Harold S., assignor.)
- Hubbard, Moses G., Summit, N. J., assignor, by mesne assignments, to Moline Heat, Moline, Ill. Ventilator unit. No. 1,296,394; Mar. 4; v. 260; p. 131.
- Hubbard, Prevost, assignor to The Iroline Company of America, Washington, D. C. Producing low-boiling hydrocarbons. No. 1,326,056; Dec. 23; v. 269; p. 655.
- Hubbard, Richard W., Ashtabula, Ohio. Hinge. No. 1,309,629; July 15; v. 264; p. 365.
- Hubbard, William S., Leicester, England. Machine for affixing measurement tickets or other tickets to fabrics and the like. No. 1,309,069; July 8; v. 264; p. 224.
- Hubbard, Winfred W., Prole, Iowa. Detachable combined end-gate and scoop-board. No. 1,294,665; Feb. 18; v. 259; p. 461.
- Hubbell, Benjamin F., assignor to Worcester Metal Goods Company, Waterbury, Conn. Bag-fastener. No. 1,324,155; Dec. 9; v. 269; p. 219.
- Hubbell, Clarence Z., assignor to Hull Construction Company, Spokane, Wash. Form for concrete hull construction. No. 1,299,728; Apr. 8; v. 261; p. 282.
- Hubbell, Clarence Z., assignor to Hull Construction Company, Spokane, Wash. Concrete ship. No. 1,299,729; Apr. 8; v. 261; p. 282.
- Hubbell, Harvey. (See Newton, William J., assignor.)
- Hubbell, Isaac, Peoria, Ill. Mining-bit. No. 1,312,732; Aug. 12; v. 265; p. 197.
- Hubbs, Henry E. (See Malone and Hubbs.)
- Huber, Earl, Cleveland, Ohio, assignor to Chicago Railway Equipment Company, Chicago, Ill. Locking-key for brake-shoes. No. 1,304,049; May 20; v. 262; p. 358.
- Huber, Emil, Chester, Pa. Machine for straightening the web-threads of textile piece goods. No. 1,326,657; Dec. 23; v. 269; p. 655.
- Huber, George, Philadelphia, Pa. Playing-disk. No. 1,299,833; Apr. 8; v. 261; p. 306.
- Huber, George T., assignor of one-half to A. S. Coffin, Gloucester, Mass. Spring for exhaust-valves and the like. No. 1,302,556; May 6; v. 262; p. 14.
- Huber, James, Philadelphia, Pa. Firing-gear for depth-mines. No. 1,314,665; Sept. 2; v. 266; p. 36.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, England. Locking device for submarine-mine firing-gears. No. 1,314,652; Sept. 2; v. 266; p. 34.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, England. Locking device for submarine-mine firing-gears. No. 1,314,653; Sept. 2; v. 266; p. 34.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, England. Locking device for submarine-mine firing-gears. No. 1,314,654; Sept. 2; v. 266; p. 34.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, England. Submarine mine. No. 1,314,655; Sept. 2; v. 266; p. 34.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,314,656; Sept. 2; v. 266; p. 35.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, England. Sounding-ball for submarine mines. No. 1,314,657; Sept. 2; v. 266; p. 35.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, London, England. Depth-setting reel for sounding-balls for submarine mines. No. 1,314,658; Sept. 2; v. 266; p. 35.



*Alphabetical list of patentees—Continued.*

- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, England. Automatic brake for submarine-mine-anchor cable-drums. No. 1,314,659; Sept. 2; v. 266; p. 35.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,314,661; Sept. 2; v. 266; p. 36.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, London, England. Depth-mine firing-gear and safety device therefor. No. 1,314,662; Sept. 2; v. 266; p. 36.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, London, England. Means for preventing the premature explosion of depth-mine firing-gears. No. 1,314,663; Sept. 2; v. 266; p. 36.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, London, England. Firing-gear for depth-mines. No. 1,314,664; Sept. 2; v. 266; p. 36.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, London, England. Contact-mine firing-gear. No. 1,319,153; Oct. 21; v. 267; p. 372.
- Huber, James, Philadelphia, Pa., assignor to Vickers Limited, Westminster, England. Firing-gear for depth-mines. No. 1,319,282; Oct. 21; v. 267; p. 396.
- Huber, James, and M. C. Indahl, Philadelphia, Pa.; said Huber, assignor to Vickers Limited, Westminster, England. Automatic control for cable-drums of mine-anchors. No. 1,314,660; Sept. 2; v. 266; p. 35.
- Huber, Otto C., Yankton, S. D. Water-wheel. No. 1,296,082; Mar. 4; v. 260; p. 61.
- Huber, Samuel J., Newark, and E. J. Schwanhauser, Jersey City, N. J. Process and mechanism for melting borings. No. 1,309,851; July 15; v. 264; p. 406.
- Huber, William E., East Cleveland, assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Apparatus for bonding rails and the like. No. 1,312,401; Aug. 5; v. 265; p. 102.
- Hubers, Albert W., assignor to H. F. Hubers, New York, N. Y. Controlling mechanism for elevator-cars. No. 1,302,557; May 6; v. 262; p. 14.
- Hubers, Henry F. (See Hubers, Albert W., assignor.)
- Hubert, Conrad. (See O'Neill, Henry G., assignor.)
- Hubert, Conrad. (See Sokolow and Polinsky, assignors.)
- Hubert, Henry J., assignor to J. T. Milliken, St. Louis, Mo.: National Bank of Commerce in St. Louis, Mo.: J. G. Lonsdale, and H. W. Loeb, executors. Capsule-machine. No. 1,302,372; Apr. 29; v. 261; p. 915.
- Hubert, Leonard F., Ogden, Kans. Barb-wire-reeling device. No. 1,320,232; Oct. 28; v. 267; p. 598.
- Hubig, Simon, Fort Worth, Tex. Pie-carrier. No. 1,310,403; July 15; v. 264; p. 506.
- Hubler, John, Brandon, Wis. Collecting short tow and flyings from hurds. No. 1,293,444; Feb. 4; v. 259; p. 110.
- Hubler, John, Brandon, Wis. Pneumatic attachment for scutching-machines. No. 1,299,946; Apr. 8; v. 261; p. 330.
- Hubler, John, Brandon, Wis. Baling-press. No. 1,315,969; Sept. 16; v. 266; p. 295.
- Hubschmitt, Henry A., Jr., Passaic, and R. D. Spain, Montclair, N. J. School furniture. No. 1,292,470; Jan. 28; v. 258; p. 665.
- Huck, Joseph, Jersey City, N. J. Engine control for power-vehicles. No. 1,325,018; Dec. 16; v. 269; p. 444.
- Huckelbery, Elvin V., Erie, Pa. Composition-roof-layer machine. No. 1,324,050; Dec. 9; v. 269; p. 200.
- Hucks, Bentfield C., London, assignor to The Aircraft Manufacturing Company Limited, Westminster, London, England. Means for starting the engines of aeroplanes. No. 1,313,693; Aug. 19; v. 265; p. 397.
- Huda, Frank, Perth Amboy, N. J. Non-skid for trucks. No. 1,302,373; Apr. 29; v. 261; p. 915.
- Hudack, Stephen, Dannemora, N. Y. Blotter. No. 1,303,902; May 20; v. 262; p. 332.
- Hudak, Mary. (See Margo, John, assignor.)
- Huddleston, Le Roy B., Lakewood, assignor to The Ribbon Life Company, Cleveland, Ohio. Moistening attachment for type-writer ribbons. No. 1,298,045; Mar. 25; v. 260; p. 582.
- Huddleston, Robert M., San Francisco, Calif. Machine for removing can ends. No. 1,319,394; Oct. 21; v. 267; p. 417.
- Huddleston, Robert M., San Francisco, Calif. Can-end-removing machine. No. 1,319,395; Oct. 21; v. 267; p. 418.
- Hudgens, George T., Lufkin, Tex. Tractor. No. 1,290,748; Jan. 7; v. 258; p. 178.
- Hudgins, Iverson D., Chamblee, Ga. Fluid-motor. No. 1,295,170; Feb. 25; v. 259; p. 600.
- Hudry, John, Hazleton, Pa. Velocipede. No. 1,326,148; Dec. 23; v. 269; p. 672.
- Hudson, Albert E., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,319,283; Oct. 21; v. 267; p. 396.
- Hudson, Allen. (See Osterberg, Carl T., assignor.)
- Hudson, Charles H., Kansas City, Mo. Fishing-reel. No. 1,295,754; Feb. 25; v. 259; p. 734.
- Hudson, Charles N., Seattle, Wash. Power-transmission device. No. 1,300,169; Apr. 8; v. 261; p. 378.
- Hudson, Charles N., Seattle, Wash. Grader. No. 1,319,665; Oct. 21; v. 267; p. 469.
- Hudson, Edward J., and H. C. Merriam, Marquette, Mich., assignor of one-half to The Cleveland-Cliffs Iron Company, Cleveland, Ohio. Process of distillation and apparatus therefor. No. 1,303,321; May 13; v. 262; p. 187.
- Hudson, James W., San Francisco, Cal. License-display tag. No. 1,293,099; Feb. 4; v. 259; p. 30.
- Hudson Motor Car Company. (See Baits and Fekete, assignors.)
- Hudson, Oswald F. (See Bengough and Hudson.)
- Hudson Scott & Sons. (See Knight and Thackray, assignors.)
- Hudson, Thomas F., North English, Iowa. Double drag. No. 1,318,561; Oct. 14; v. 267; p. 233.
- Hudson, Warren R., assignor to The Troy Wagon Works Company, Troy, Ohio. Trailing vehicle. No. 1,321,449; Nov. 11; v. 268; p. 270.
- Hudson, William F., assignor of one-half to B. J. Bostick, Rockingham, N. C. Automatic fire-kindler. No. 1,298,214; Mar. 25; v. 260; p. 618.
- Hudzinski, Felix J., Darien Center, N. Y. Portable grain elevator and stacker. No. 1,297,852; Mar. 18; v. 260; p. 515.
- Huebner-Bleistein Patents Co. (See Huebner, William C., assignor.)
- Huebner-Bleistein Patents Company. (See Huebner, William C., assignor.)
- Huebner, Joseph W. (See Huebner, William J. and J. W.)
- Huebner, Julius. (See Clayton, Huebner, and Williams.)
- Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Apparatus for positioning the printing-plates on the plate-holders of photographic-printing apparatus. No. 1,291,897; Jan. 21; v. 258; p. 505.
- Huebner, William C., assignor to Huebner-Bleistein Patents Co., Buffalo, N. Y. Preparing grained tone photographic negatives and positives and producing printing plates therefrom. No. 1,300,729; Apr. 15; v. 261; p. 524.
- Huebner, William J. and J. W., Milwaukee, Wis. Automobile direction-indicator. No. 1,308,240; July 1; v. 264; p. 43.
- Hueller, Walter, Weehawken, and M. Krapp, Union Hill, N. J. Embroidery-machine. No. 1,300,838; Apr. 15; v. 261; p. 547.
- Huening, William T., Chicago, Ill. Display refrigerator-case. No. 1,295,507; Feb. 25; v. 259; p. 677.
- Huerta, Hilario, St. Louis, Mo. Advertising device. No. 1,312,632; Aug. 12; v. 265; p. 178.
- Huestis, Charles A., Elmhurst, N. Y. Solution for and process of hardening steel. No. 1,310,020; July 15; v. 264; p. 437.
- Huether, Jacob, Brooklyn, N. Y., assignor to The Paper Working Machines Company. Corrugated-paper-board machine. No. 1,294,348; Feb. 11; v. 259; p. 351.
- Huey, George W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,308,589; July 1; v. 264; p. 106.
- Huey, Jefferson D., St. Louis, Mo. Rail-joint chair. No. 1,317,163; Sept. 30; v. 266; p. 605.
- Huff, Albert J. (See Dohmer and Huff.)
- Huff, Clifford F., Havana, Ill. Apparatus for hoisting and lowering paint-receptacles, &c. No. 1,315,502; Sept. 9; v. 266; p. 198.
- Huff, Edward S., Detroit, Mich., assignor, by mesne assignments, to The Simms Magneto Company, Engine-starter. No. 1,300,970; Apr. 15; v. 261; p. 575.
- Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Gear-shifting mechanism. No. 1,293,783; Feb. 11; v. 259; p. 219.
- Huff, Slaughter W., Brooklyn, N. Y. Indicator for cartridge-fuses. No. 1,301,848; Apr. 29; v. 261; p. 816.
- Huff, Spencer E. (See Taylor, George R., assignor.)
- Huff, Thomas F., Pizarro, Va. Pick. No. 1,321,371; Nov. 11; v. 268; p. 255.
- Huff, Thomas W. (See Phillips and Huff.)
- Huff, Wellman K., Guy, N. Mex. Attachment for planters. No. 1,298,046; Mar. 25; v. 260; p. 582.
- Huff, William D., La Fayette, La., assignor of one-half to J. J. Connolly, Roanoke, Va. Process and apparatus for extracting sulfur. No. 1,317,625; Sept. 30; v. 266; p. 693.
- Huffman, Blaine, et al. (See Rettig, Clarence N., assignor.)
- Huffman, Charles C., assignor to Sunbeam Chemical Company, Chicago, Ill. Universal gray dye and producing the same. No. 1,315,961; Sept. 16; v. 266; p. 296.
- Huffman, Edwin B., St. Louis, Mo. Depth-indicating device. (Reissue.) No. 14,728; Sept. 23; v. 266; p. 566.
- Huffman, Verne A., Roanoke, Ind. Farm-tractor. No. 1,292,606; Jan. 28; v. 258; p. 699.
- Huffman, Verne A., Roanoke, Ind. Power-transmission and steering mechanism for tractors. No. 1,292,607; Jan. 28; v. 258; p. 699.
- Hug, Alexander G. (See Scott and Hug.)
- Hug, Ernst. (See Guggenheim and Hug.)
- Hugotz, Edward, New York, N. Y. Fountain-pen. No. 1,307,359; June 24; v. 263; p. 493.
- Hugan, William P., Victoria, British Columbia, Canada. Guide-rail lubricator. No. 1,321,041; Nov. 4; v. 268; p. 129.



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- Huggins, Merion J., New York, N. Y. Automobile. No. 1,293,100; Feb. 4; v. 259; p. 30.
- Huggins, Merion J., assignor to Automotive Development Co., Inc., New York, N. Y. Speed-controlling mechanism for automobiles. No. 1,313,535; Aug. 19; v. 265; p. 368.
- Huggins, Merion J., assignor to Automotive Development Co., Inc., New York, N. Y. Speed-controlling mechanism for automobiles. No. 1,314,063; Aug. 26; v. 265; p. 501.
- Huggins, Merion J., assignor to Automotive Development Co., Inc., New York, N. Y. Gear-shifting mechanism for automobiles. No. 1,314,139; Aug. 26; v. 265; p. 516.
- Huggins, Merion J., assignor to Automotive Development Co., Inc., New York, N. Y. Speed-controlling mechanism for automobiles. No. 1,316,954; Sept. 23; v. 266; p. 529.
- Huggins, Mingus C., Hendersonville, N. C. Saw-clamp. No. 1,324,594; Dec. 9; v. 269; p. 305.
- Huggins, Murray J., Bridgeport, Conn., and R. B. Huggins, Middletown, N. Y. Counterboring-tool. No. 1,312,033; Aug. 5; v. 265; p. 34.
- Huggins, Richard B. (See Huggins, Murray J. and R. B.)
- Hughes, Arthur J. (See Starling and Hughes.)
- Hughes, Arthur S., Mansfield, Ohio. Toilet partition. No. 1,311,229; July 29; v. 264; p. 723.
- Hughes, Chester B., assignor to Mineral Electric Company, Chicago, Ill. Cable-hanger. No. 1,315,225; Sept. 9; v. 266; p. 147.
- Hughes, David D. (See Hughes and Davis.)
- Hughes, Edward J., Bloomfield, N. J. Flange-joint member and producing flange-joint members. No. 1,291,645; Jan. 14; v. 258; p. 412.
- Hughes, Edward J., Bloomfield, N. J. Flange-joint member and producing same. No. 1,291,646; Jan. 14; v. 258; p. 412.
- Hughes, Everett B., North Vernon, Ind. Bank-vault. No. 1,326,058; Dec. 23; v. 269; p. 655.
- Hughes, Fred T., assignor of one-half to J. J. Bannon, Los Angeles, Cal. Pedal extension. No. 1,293,101; Feb. 4; v. 259; p. 30.
- Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Antifriction-bearing and separator therefor. No. 1,299,474; Apr. 8; v. 261; p. 224.
- Hughes, Garfield J., Toronto, Ontario, Canada. Crutch, walking-stick, and the like. No. 1,298,721; Apr. 1; v. 261; p. 23.
- Hughes, Grover A. (See Pool and Hughes.)
- Hughes, Henry B., et al. (See Huntley, Stephen A., assignor.)
- Hughes, Henry J., Ottawa, Ill. Water-heater. No. 1,305,110; May 27; v. 262; p. 597.
- Hughes, Howard R., assignor to Hughes Tool Company, Houston, Tex. Rotary boring-drill. No. 1,292,608; Jan. 28; v. 258; p. 700.
- Hughes, Howard R., assignor to Sharp-Hughes Tool Company, Houston, Tex. Roller-boring drill. No. 1,306,694; June 17; v. 263; p. 339.
- Hughes, Howard R., Houston, Tex. Rotary boring-drill. No. 1,316,094; Sept. 16; v. 266; p. 320.
- Hughes, Howard R., Houston, Tex. Cross-roller bit. No. 1,320,394; Nov. 4; v. 268; p. 7.
- Hughes, Howard R., Houston, Tex. Rotary boring-drill. No. 1,322,696; Nov. 25; v. 268; p. 606.
- Hughes, Howard R., Houston, Tex. Rotary boring-drill. No. 1,325,944; Dec. 23; v. 269; p. 634.
- Hughes, James, Galilee, Moose Jaw, Saskatchewan, Canada. Sod-turning attachment for plows. No. 1,316,722; Sept. 23; v. 266; p. 487.
- Hughes, James M., and C. H. Lyons, Winnfield, La. Storage house and bin. No. 1,322,019; Nov. 18; v. 268; p. 427.
- Hughes, James W., Narberth, Pa., assignor to Hughes Lippincott Company. Liquid-dispensing mechanism. No. 1,295,508; Feb. 25; v. 259; p. 678.
- Hughes, James W., Haddon Heights, N. J. Time-recording apparatus. No. 1,323,058; Nov. 25; v. 268; p. 674.
- Hughes, John, London, W. O. Travis, Hampton, England, and R. A. Sturgeon, Bodeuron, Wales. Method of and means for the centrifugal separation of solid substances from liquids. No. 1,303,203; May 6; v. 262; p. 138.
- Hughes, John L., assignor of one-third to I. Shuler, Tulsa, Okla., and one-third to C. L. Bruce, Sedalia, Mo. Feed-water apparatus. No. 1,307,403; June 24; v. 263; p. 501.
- Hughes, John W., Cambria, Pa. Self-operating fire-extinguisher. No. 1,297,172; Mar. 11; v. 260; p. 341.
- Hughes-Lippincott Company. (See Hughes, James W., assignor.)
- Hughes, Llewellyn, Pasadena, Cal. Fender. No. 1,295,034; Feb. 18; v. 259; p. 545.
- Hughes, Naomi D., Prineville, Oreg. Nursery-chair. No. 1,291,898; Jan. 21; v. 258; p. 505.
- Hughes Peace Lumber Co. (See Peace, William H., assignor.)
- Hughes, Robert B., Portland, Oreg. Awning-arm. No. 1,307,201; June 17; v. 263; p. 431.
- Hughes, Robert R., Jr., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Shell-stitch sewing-machine. No. 1,291,526; Jan. 14; v. 258; p. 383.
- Hughes, Robert R., Jr., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Cutting attachment for sewing-machines. No. 1,292,784; Jan. 28; v. 258; p. 740.
- Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Tape throw-out for edging-machines. No. 1,293,445; Feb. 4; v. 259; p. 110.
- Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Stitch-forming mechanism for sewing-machines. No. 1,326,593; Dec. 30; v. 269; p. 793.
- Hughes, Rupert U. S. Army. Trench-knife. No. 1,315,503; Sept. 9; v. 266; p. 198.
- Hughes, Stanley K., Hereford, Tex. Door-catch. No. 1,302,168; Apr. 29; v. 261; p. 876.
- Hughes, Thomas B., W. J. Davis, and D. D. Hughes, Granite City, Ill. Cold-roll-feeder mechanism. No. 1,304,050; May 20; v. 262; p. 358.
- Hughes Tool Company. (See Childs, William L., assignor.)
- Hughes Tool Company. (See Hughes, Howard R., assignor.)
- Hughes, William D., Condon, Oreg. Oil-cup. No. 1,302,798; May 6; v. 262; p. 60.
- Hughes, William D., Condon, Oreg. Fly-paper holder. No. 1,318,562; Oct. 14; v. 267; p. 233.
- Hughes, William D., Condon, Oreg. Sifter. No. 1,322,241; Nov. 18; v. 268; p. 469.
- Hughes, William H. (See Dover and Hughes.)
- Hughes, Thomas M., San Jose, Calif. Hose attachment. No. 1,310,866; July 22; v. 264; p. 623.
- Hughes, William A., and J. P. Pantages, Chicago, Ill. Beverage-mixing device. No. 1,318,152; Oct. 7; v. 267; p. 93.
- Hugill, Ashton C., Fordham, N. Y., assignor, by mesne assignments, to Alliance Co. Inc., Boston, Mass. Automatic air-valve for gas-engine manifolds. No. 1,303,817; May 13; v. 262; p. 278.
- Hugo, Emil J., Philadelphia, Pa. Fuel-supply regulator for steam-boilers. No. 1,293,446; Feb. 4; v. 259; p. 110.
- Huhn, Anton. (See Stebbins and Hopkins, assignors.)
- Huhn, Anton, Minneapolis, Minn. Process and apparatus for drying materials. No. 1,318,385; Oct. 14; v. 267; p. 199.
- Huhn, John H., assignor of one-fifth to M. Huhn, Fairmont, W. Va. Loading apparatus. No. 1,293,447; Feb. 4; v. 259; p. 110.
- Huhn, Mary. (See Huhn, John H., assignor.)
- Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Can-closure. No. 1,319,081; Oct. 21; v. 267; p. 357.
- Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Machine for securing vessel-closures. No. 1,319,082; Oct. 21; v. 267; p. 358.
- Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Securing vessel-closures. No. 1,319,083; Oct. 21; v. 267; p. 358.
- Hulbert, John L., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine pulsator. No. 1,321,372; Nov. 11; v. 268; p. 255.
- Hulbert, Prescott M., Detroit, Mich. Electric heater. No. 1,319,002; Oct. 14; v. 267; p. 317.
- Huldt, Sven. (See Berglund, Edward S., assignor.)
- Huldt, Sven, Stockholm, Sweden. Refining volatile metals. No. 1,298,722; Apr. 1; v. 261; p. 23.
- Huldt, Sven, Stockholm, Sweden, assignor to Norsk Elektrisk Metalindustri Aktieselskap, Sarpsborg, Norway. Condenser for zinc vapors. No. 1,311,604; July 29; v. 264; p. 793.
- Huldt, Sven, Stockholm, Sweden, assignor to Norsk Elektrisk Metalindustri Aktieselskap, Sundlökken, Sarpsborg, Norway. Refining zinc. No. 1,312,480; Aug. 5; v. 265; p. 118.
- Hulett, Everett W., Chicago, Ill. Motion-picture-strip-reel alarm. No. 1,323,863; Dec. 2; v. 269; p. 120.
- Hulett, George H., Cleveland, Ohio. Warehouse-crane. No. 1,305,802; June 3; v. 263; p. 108.
- Hulin, Paul L., Grenoble, France. Preparation of anhydrous metallic chlorides. No. 1,304,567; May 27; v. 262; p. 496.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Wireless receiving system. No. 1,291,527; Jan. 14; v. 258; p. 384.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Method of and means for amplifying electrical variations. No. 1,313,187; Aug. 12; v. 265; p. 287.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Means for producing alternating currents. No. 1,313,188; Aug. 12; v. 265; p. 287.
- Hull Construction Company. (See Hubbell, Clarence Z., assignor.)
- Hull, George E., assignor to Hickok Construction Co., Minneapolis, Minn. Circuit-closer. No. 1,298,950; Apr. 1; v. 261; p. 77.
- Hull, George T., Tulsa, Okla. Fumigating-rack. No. 1,326,505; Dec. 30; v. 269; p. 776.
- Hull, Henry H., et al. (See Glass, Louine R., assignor.)



- Hull, Herbert L., and T. N. Lofgren, assignors to Central Electric Company, Chicago, Ill. Suspension device. No. 1,293,448; Feb. 4; v. 259; p. 111.
- Hull, Horace, Denver, Colo. Selective signaling apparatus. No. 1,318,670; Oct. 14; v. 267; p. 254.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Double-range regulating sets for controlling speed of induction-motors. No. 1,306,594; June 10; v. 263; p. 286.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Speed-regulating set. No. 1,321,042; Nov. 4; v. 268; p. 129.
- Hull, Nathaniel D., assignor to Hull Pump and Tank Company, Owensboro, Ky. Measuring-pump. No. 1,291,528; Jan. 14; v. 258; p. 384.
- Hull Pump and Tank Company. (See Hull, Nathaniel D., assignor.)
- Hull, Samuel G., Apopka, Fla. Fruit chute or conveyer. No. 1,297,353; Mar. 18; v. 260; p. 409.
- Hull, Samuel P., Yonkers, N. Y. Adjustable socket-bearing. No. 1,326,268; Dec. 30; v. 269; p. 732.
- Hullin Boat Company. (See Golden, Samuel, assignor.)
- Hulscher, Frank H., Atlanta, Ga. Manufacture of sheet-metal blanks. No. 1,301,700; Apr. 22; v. 261; p. 757.
- Hulscher, Frank H., Atlanta, Ga. Picker-stick. No. 1,301,701; Apr. 22; v. 261; p. 757.
- Hulse, Benjamin F., assignor to T. J. Potter, Los Angeles, Calif. Gas-radiator. No. 1,322,444; Nov. 18; v. 268; p. 507.
- Hulse, Edison G., Akron, Ohio, assignor to Kelly-Springfield Tire Company, Jersey City, N. J. Machine for making pneumatic-tire flaps. No. 1,302,660; May 6; v. 262; p. 34.
- Hulse, Frank W., Augusta, Ga. Cotton-picker. No. 1,324,549; Dec. 9; v. 269; p. 296.
- Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Lamp construction. No. 1,309,630; July 15; v. 264; p. 365.
- Hulse, John O., Flint, Mich. Internal-combustion engine. No. 1,326,733; Dec. 30; v. 269; p. 819.
- Hulse, William H., Brooklyn, N. Y. Stay-strip. No. 1,320,692; Nov. 4; v. 268; p. 62.
- Hult, Charles F., Chicago, Ill. Flange-wrench. No. 1,307,128; June 17; v. 263; p. 418.
- Hultberg, Gottfrid, Chicago, Ill., assignor to The Barrett Company. Shingle-machine. No. 1,313,224; Aug. 12; v. 265; p. 294.
- Hultgren, Charles, assignor to S. Karpen & Bros., Chicago, Ill. Sofa-bed. No. 1,293,784; Feb. 11; v. 259; p. 219.
- Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Means for removing hardened annular bodies from the hardening liquid. No. 1,308,077; July 1; v. 264; p. 13.
- Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Hardening solids of revolution. No. 1,309,137; July 8; v. 264; p. 237.
- Hultgren, Axel G. E., and P. S. Rybeck, assignors to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-retainer for double-row radial ball-bearings. No. 1,303,479; May 13; v. 262; p. 216.
- Hultgren, William H. (See Lindquist and Hultgren.)
- Hultin, Enoch P., Elkhart, Ind. Air-pump. No. 1,321,209; Nov. 11; v. 268; p. 224.
- Hulting, Charles E. (See Perry and Hulting.)
- Human, Arnold H., Gerrards Cross, assignor of one-half to Kestner Evaporator & Engineering Company, Limited, Westminster, England. Apparatus for pumping liquids. No. 1,323,864; Dec. 2; v. 269; p. 120.
- Humason, Granville A., assignor of one-half to J. W. Parker, Houston, Tex. Apparatus for vaporization and distillation of petroleum and other hydrocarbon oils. No. 1,291,899; Jan. 21; v. 258; p. 505.
- Humason, Granville A., Shreveport, La., assignor, by mesne assignments, to C. E. Reed, Houston, Tex. Drill-bit. No. 1,294,106; Feb. 11; v. 259; p. 295.
- Humason, Granville A., and W. L. Childs, Houston, Tex. Core-barrel. No. 1,318,493; Oct. 14; v. 267; p. 220.
- Humason, Granville A., Houston, Tex. Pump. No. 1,325,565; Dec. 23; v. 269; p. 564.
- Humason, Granville A., assignor, of one-half to J. W. Parker, Houston, Tex. Pump. No. 1,326,508; Dec. 30; v. 269; p. 777.
- Humason, Granville A., assignor of one-half to J. W. Parker, Houston, Tex. Rotary boring-drill. No. 1,326,509; Dec. 30; v. 269; p. 777.
- Humason, Granville A., Shreveport, La., assignor of one-third to E. B. Bierce and one-third to J. W. Parker, Harris county, Tex. Drill-bit. No. 1,326,506; Dec. 30; v. 269; p. 776.
- Humason, Granville A., Shreveport, La., assignor of one-third to E. B. Bierce and one-third to J. W. Parker, Harris county, Tex. Combination drill-bit and drill-shank. No. 1,326,507; Dec. 30; v. 269; p. 776.
- Humberger, Alonzo, Chicago, Ill., Washing-machine. No. 1,301,055; Apr. 15; v. 261; p. 595.
- Hume, Frank M., Vegreville, Alberta, Canada. Vending-machine. No. 1,319,084; Oct. 21; v. 267; p. 358.
- Hume, Nelson A., Black Creek, N. Y. Hook. No. 1,314,963; Sept. 2; v. 266; p. 89.
- Hume, Walter R., Adelaide, South Australia, Australia. Reinforcement for pipes and conduits. No. 1,326,594; Dec. 30; v. 269; p. 793.
- Humes, Guy B., Chicago, Ill. Control-lever detent. No. 1,311,400; July 29; v. 264; p. 755.
- Humidity Control Company, The. (See Krick, Arthur E., assignor.)
- Humiston, Frederick L. (See Johnson and Humiston.)
- Humm, Hans, Brooklyn, N. Y. Firearm. No. 1,315,504; Sept. 9; v. 266; p. 198.
- Hummel, Frank J., Pittsburgh, Pa. Toy railway. No. 1,303,668; May 13; v. 262; p. 250.
- Hummel, John J., Spokane, Wash. Type setting and distributing machine. No. 1,291,900; Jan. 21; v. 258; p. 505.
- Hump Hairpin Manufacturing Company, The. (See Hermsdorf, Walter H., assignor.)
- Hump Hairpin Manufacturing Company, The. (See Sisson, Isaac H., assignor.)
- Humphrey, Alfred H., New York, N. Y. Gas-stove. No. 1,311,895; Aug. 5; v. 265; p. 8.
- Humphrey, David, Cleveland, Ohio. Elevated railway. No. 1,306,225; June 30; v. 263; p. 218.
- Humphrey, E. A., trustee. (See Flowers, Thomas W., assignor.)
- Humphrey, Effingham P., Wilkes-Barre, Pa. Car hoisting and dumping device. No. 1,321,826; Nov. 18; v. 268; p. 392.
- Humphrey, Ernest N., New Britain, Conn. Fastener for curtains and the like. No. 1,308,545; July 1; v. 264; p. 98.
- Humphrey Gas Pump Company. (See Humphrey, Herbert A., assignor.)
- Humphrey Gas Pump Company. (See Humphrey and Russell, assignors.)
- Humphrey, Herbert A., London, England, assignor to Humphrey Gas Pump Company. Apparatus for utilizing an expansive force. No. 1,315,772; Sept. 9; v. 266; p. 245.
- Humphrey, Herbert A., London, and W. J. Russell, Dudley, England, assignors to Humphrey Gas Pump Company. Method and apparatus for raising or forcing liquids. No. 1,294,271; Feb. 11; v. 259; p. 333.
- Humphrey, Herbert A., London, and W. J. Russell, Wolverhampton, England, assignors to Humphrey Gas Pump Company. Apparatus for pumping fluid. No. 1,309,943; July 15; v. 264; p. 424.
- Humphrey, Herbert A., London, and W. J. Russell, Wolverhampton, England, assignors to Humphrey Gas Pump Company. Pump. No. 1,311,166; July 29; v. 264; p. 712.
- Humphrey, Herbert A., London, and W. J. Russell, Wolverhampton, England, assignor to Humphrey Gas Pump Company. Internal-combustion engine. No. 1,318,760; Oct. 14; v. 267; p. 271.
- Humphrey, Herbert S., Kalamazoo, Mich., assignor to Ruud Manufacturing Company, Pittsburgh, Pa. Instantaneous water-heater. No. 1,292,609; Jan. 28; v. 258; p. 700.
- Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 1,308,078; July 1; v. 264; p. 13.
- Humphrey, Jerry G., Jacksonville, Fla. Device for propelling vessels. No. 1,315,505; Sept. 9; v. 266; p. 198.
- Humphrey, John D., Waterbury, assignor of one-half to G. H. Clark, Waterville, Conn. Time-controlled mechanism. No. 1,293,102; Feb. 4; v. 259; p. 31.
- Humphrey, John T., Gouverneur, N. Y. Folding clothes-rack. No. 1,326,059; Dec. 23; v. 269; p. 656.
- Humphreys, Edward C. (See Archer and Humphreys.)
- Humphreys, George W., Kansas City, Mo. Curtain-adjuster. No. 1,325,401; Dec. 16; v. 269; p. 516.
- Humphreys, Walter G., Omaha, Nebr. Fuel-vaporizer. No. 1,325,850; Dec. 23; v. 269; p. 617.
- Humphries, Joseph P., Milwaukee, Wis., assignor to Stamp Loading Machine Company. Loader. No. 1,304,774; May 27; v. 262; p. 534.
- Humphries, Ralph, Vancouver, British Columbia, Canada. Tractor-drive. No. 1,292,471; Jan. 28; v. 258; p. 665.
- Humphris, Frank, Boscombe, England. Spring-locking washer. No. 1,323,188; Nov. 25; v. 268; p. 699.
- Humphris, Frank, Boscombe, England. Adjustable spanner, pipe-wrench or pipe-cutter. No. 1,325,402; Dec. 16; v. 269; p. 516.
- Humphries, James H., London, England. Apparatus for driving pipes and the like. No. 1,295,320; Feb. 25; v. 259; p. 633.
- Humphries, James H., London, England. Tank and like receptacle. No. 1,307,584; June 24; v. 263; p. 534.
- Hundhausen, Joseph, and W. Trantow, assignors to J. A. Wiener, Wausau, Wis. Truck. No. 1,323,865; Dec. 2; v. 269; p. 120.
- Hunke, John, Melrose Park, assignor to Cox Multi-Mailer Co., Chicago, Ill. Stenciling apparatus. No. 1,312,481; Aug. 5; v. 265; p. 118.
- Hungate, C. A. (See Wake, Charles E., assignor.)
- Hungerford, Henry H. (See Tomlinson and Hungerford.)
- Hungerford, Warren H. (See Peters and Hungerford.)
- Huning, Louis B., Philadelphia, Pa. Adjustable coffee-percolator. No. 1,309,414; July 8; v. 264; p. 288.
- Hunkeler, Julius J., Fond du Lac, Wis. Life-boat-securing device. No. 1,321,746; Nov. 11; v. 268; p. 326.
- Hunnleutt, James G., Atlanta, Ga. Rail-cleaning device. No. 1,314,330; Aug. 26; v. 265; p. 553.
- Hunnleutt, Walter A., near Greensfork, Ind. Cornstalk-turner. No. 1,297,173; Mar. 11; v. 260; p. 341.



## Alphabetical list of patentees—Continued.

- Hunsaker, Andrew J. See Cronkright, Wesley G., assignor.)
- Hunsberger, Neville, *et al.* (See Meredith, Oscar G., assignor.)
- Hunsicker, Clyde L., San Francisco, Calif. Fruit-stemming machine. No. 1,302,374; Apr. 29; v. 261; p. 915.
- Hunsicker, Emma, Milwaukee, Wis. Motor-driven suction-sweeper. No. 1,294,468; Feb. 18; v. 259; p. 415.
- Hunt, Albert H., Wellington, New Zealand. Fishing-reel. No. 1,296,395; Mar. 4; v. 260; p. 131.
- Hunt, Charles, Manchester, N. H. Fruit-jar cover. No. 1,318,671; Oct. 14; v. 267; p. 254.
- Hunt, Christian G., Dunellen, and J. H. Coyle, Plainfield, N. J. Electric gas-detecting safety-lamp. No. 1,294,806; Feb. 18; v. 259; p. 493.
- Hunt, Dorothy Z. (See Loomis and Hunt.)
- Hunt, Edgar L., Edmonds, Wash. Tool-holder for lathes. No. 1,304,051; May 20; v. 262; p. 359.
- Hunt, Edward J., West Orange, N. J. Advertising lamp and radiometer. No. 1,290,749; Jan. 7; v. 258; p. 178.
- Hunter, Harry S., assignor to Hunter Saw & Machine Company, Pittsburgh, Pa. Adjustment for inserted milling-saw teeth. No. 1,295,171; Feb. 25; v. 259; p. 600.
- Hunt-Helm-Ferris & Company. (See Ferris, Howard J. and H. L., assignors.)
- Hunt, Herbert A., Wandsworth, London, England. Means for boarding tram-cars. No. 1,315,840; Sept. 9; v. 266; p. 258.
- Hunt, John R., Indianapolis, Ind. Moving-picture-printing machine. No. 1,320,145; Oct. 28; v. 267; p. 582.
- Hunt, John R., Indianapolis, Ind. Moving-picture-projecting machine. No. 1,320,860; Nov. 4; v. 268; p. 94.
- Hunt, John R., Indianapolis, Ind. Machine for printing films for colored motion pictures. No. 1,323,767; Dec. 2; v. 269; p. 102.
- Hunt, Jonathan A., Salem, Mass. Needle for sound-reproducing machines. No. 1,312,848; Aug. 12; v. 265; p. 220.
- Hunt, Jonathan A., Salem, Mass. Needle for sound-reproducing machines. No. 1,312,849; Aug. 12; v. 265; p. 220.
- Hunt, Joseph H. (See Allen, Sherman T., assignor.)
- Hunt, Ludovic E., Springfield, Mo. Lathe-tool. No. 1,319,585; Oct. 21; v. 267; p. 454.
- Hunt, Mary J. (See Crossley, Noel, assignor.)
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Headlight. No. 1,321,827; Nov. 18; v. 268; p. 392.
- Hunt, Ozzello R., assignor of one-half to Charles W. Snell Company, Chicago, Ill. Spring structure. No. 1,291,003; Jan. 14; v. 258; p. 262.
- Hunt, Sylvester H., Ressemer, Mich. Ore-loader. No. 1,302,046; Apr. 29; v. 261; p. 854.
- Hunt, Wilfred, Glasgow, Scotland. Rotary mechanism for the transmission of power at varying speeds. No. 1,298,506; Mar. 25; v. 260; p. 681.
- Hunt, William H., National City, Cal. Valve mechanism for two-cycle gas-engines. No. 1,292,322; Jan. 21; v. 258; p. 609.
- Hunter, Albert, Vancouver, Wash. Tool-holder. No. 1,313,597; Aug. 19; v. 265; p. 380.
- Hunter, Albert, Vancouver, Wash. Woodworking-tool. No. 1,322,572; Nov. 25; v. 268; p. 583.
- Hunter, Albert, Portland, Ore. Holder-on. No. 1,323,059; Nov. 25; v. 268; p. 674.
- Hunter, Cal. F. (See Barker, John P., assignor.)
- Hunter, Charles D., Newport News, Va. Combined motor-cycle and aeroplane. No. 1,307,097; June 17; v. 263; p. 413.
- Hunter, Charles H., assignor to Elliott-Fisher Company, Harrisburg, Pa. Combined type-writing and computing machine. No. 1,323,283; Dec. 2; v. 269; p. 11.
- Hunter, Della R. (See Hunter, William A., assignor.)
- Hunter, George D., Bloomington, Ind., assignor to Sullivan Machinery Company, Claremont, N. H. Stone-channeling machine. No. 1,313,821; Aug. 19; v. 265; p. 422.
- Hunter, James D., *et al.* (See Joyce, James M., assignor.)
- Hunter, James H. C. (See Isbester, Arthur G. S., assignor.)
- Hunter, John, Barrow-in-Furness, England. Gas-burner. No. 1,313,694; Aug. 19; v. 265; p. 398.
- Hunter, Percy E., Pittsburgh, Pa. Annealing-box. No. 1,305,605; June 3; v. 263; p. 73.
- Hunter, Percy E., Pittsburgh, Pa. Annealing-box. No. 1,321,043; Nov. 4; v. 268; p. 129.
- Hunter, Richard B., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,306,484; June 10; v. 263; p. 267.
- Hunter, Ross, Milwaukee, Wis. Tray-lifting device. No. 1,299,475; Apr. 8; v. 261; p. 224.
- Hunter, Ross, assignor of one-half to C. F. Natzger, Chicago, Ill. Shoe. No. 1,317,975; Oct. 7; v. 267; p. 60.
- Hunter, Rudolph M., Philadelphia, Pa., assignor, by mesne assignments, to Everlasting Valve Co. Valve. (Reissue.) No. 14,687; July 15; v. 264; p. 507.
- Hunter Saw & Machine Company. (See Hunter, Harry S., assignor.)
- Hunter, Thomas C. (See West, Edward F., assignor.)
- Hunter, Thomas F., assignor to E. W. Sproul Company, Chicago, Ill. Hoisting means. No. 1,303,322; May 13; v. 262; p. 187.
- Hunter, Thomas W., *et al.* (See Baker, James S., assignor.)
- Hunter, Walter L., Roanoke, Tex. Fruit-jar and bottle cleaner. No. 1,296,290; Mar. 4; v. 260; p. 108.
- Hunter, William A., assignor to D. R. Hunter, Terre Haute, Ind. Storm-top for motor-vehicles. No. 1,323,695; Dec. 2; v. 269; p. 88.
- Hunter, William B., Fitchburg, Mass. Piston-ring remover. No. 1,318,494; Oct. 14; v. 267; p. 220.
- Hunter, William F., Arcata, assignor of one-half to C. L. Koster, San Francisco, Calif. Gaseous-fuel mixer. No. 1,311,071; July 22; v. 264; p. 661.
- Huntington, Heberlein and Company, Limited. (See Bingham, Henry C., assignor.)
- Huntley, Erle S., Friesland, Queensland, assignor to The Hampden Cloncurry Copper Mines Limited, Melbourne, Australia. Gas-producer. No. 1,300,839; Apr. 15; v. 261; p. 547.
- Huntley, John F., *et al.* (See Huntley, Stephen A., assignor.)
- Huntley Manufacturing Co. (See Morse, Theodore F., assignor.)
- Huntley, Stephen A., Riverton, assignor of one-half to H. B. Hughes, Fremont county, and one-half to J. F. Huntley, Lander, Wyo. Automatic lamp for automobiles and the like. No. 1,292,785; Jan. 28; v. 258; p. 740.
- Huntoon, William C., Providence, R. I. Collapsible tube. No. 1,310,083; July 15; v. 264; p. 448.
- Huntoon, William C., Providence, R. I. Puncture-plug. No. 1,310,831; July 22; v. 264; p. 617.
- Huntoon, William C., Providence, R. I. Collapsible tube. No. 1,313,189; Aug. 12; v. 265; p. 287.
- Hunting, Henry R. (See Ralek, John J., assignor.)
- Hupfel, Adolph G., New York, N. Y. Feed connection for hop-strainers and the like. No. 1,296,187; Mar. 4; v. 260; p. 85.
- Hupp, Incorporated. (See Hupp, Irvin, assignor.)
- Hupp, Irvin, Chicago, Ill., assignor to Hupp, Incorporated. Flexible coupling. No. 1,314,331; Aug. 26; v. 265; p. 553.
- Hupp, Irvin, Chicago, Ill., assignor to Hupp, Incorporated. Shock-absorbing device. No. 1,316,483; Sept. 16; v. 266; p. 393.
- Hupp Motor Car Corporation. (See Watts, Frank E., assignor.)
- Hupp, William F. (See Wubbens, Hupp, and Hegeman.)
- Hurd, Ben A., *et al.*, trustees. (See Gray, Winfield H., assignor.)
- Hurd, Benjamin W., Sierra Madre, Cal. Air-gage. No. 1,291,901; Jan. 21; v. 258; p. 506.
- Hurd, Fred W., Fort Wayne, Ind. Rain-shield for automobiles. No. 1,295,035; Feb. 18; v. 259; p. 545.
- Hurd, Hubbard F., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Soft fold-collar. No. 1,311,520; July 29; v. 264; p. 778.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Casement-window adjuster. No. 1,323,595; Dec. 2; v. 269; p. 70.
- Hurd, Samuel D. (See Pinckney and Hurd.)
- Hurd, Sylvester L., Springfield, La. Stump removing and clearing machine. No. 1,321,044; Nov. 4; v. 268; p. 129.
- Hurlbrink, Ernst, Friedenau, Berlin, Germany. Container for inflammable liquids. No. 1,295,321; Feb. 25; v. 259; p. 633.
- Hurlburt, David M., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic exposure mechanism. No. 1,298,723; Apr. 1; v. 261; p. 24.
- Hurley Machine Company. (See Fisher, Alva J., assignor.)
- Hurni, Henry B., assignor to Waterbury Clock Co., Waterbury, Conn. Watch. No. 1,293,449; Feb. 4; v. 259; p. 111.
- Hursey, William R., Birmingham, Ala. Flush-valve. No. 1,314,873; Sept. 2; v. 266; p. 74.
- Hurst, Albert E., New York, N. Y. Window flower-box. No. 1,293,785; Feb. 11; v. 259; p. 219.
- Hurst, Clyde, Tupelo, Ark. Tobacco-pipe. No. 1,302,047; Apr. 29; v. 261; p. 854.
- Hurt, George F., assignor to Pratt Engineering & Machine Company, Atlanta, Ga. Exhauster. No. 1,323,533; Dec. 2; v. 269; p. 59.
- Hurt, William N., Shawnee, Okla. Oil-gas burner. No. 1,319,870; Oct. 28; v. 267; p. 531.
- Hurt, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane-crushing apparatus. No. 1,297,691; Mar. 18; v. 260; p. 481.
- Hurtig, Carl A., and G. R. Taylor, St. Paul, Minn. Change-speed device. No. 1,304,052; May 20; v. 262; p. 359.
- Hurtley, Emil A., Nezauee, Mich., assignor to R. S. Walker, Duluth, Minn. Mining and tunnel-shoveling machine. No. 1,319,220; Oct. 21; v. 267; p. 385.
- Hurt, Frank L., and A. S. Wright, Cleveland, Ohio. Water-motor fan. No. 1,301,056; Apr. 15; v. 261; p. 595.
- Hurt, Spencer M., Ridley Park, Pa., assignor to The Mynol Chemical Company. Point for nerve-canals of teeth. No. 1,312,120; Aug. 5; v. 265; p. 51.



- Hurwitz, Abraham, assignor to L. Rosenberg, New York, N. Y. Searf-pin clutch. No. 1,319,340; Oct. 21; v. 267; p. 407.
- Huseby, Albert A., Chicago, Ill. Music-roll carton. No. 1,290,750; Jan. 7; v. 258; p. 178.
- Huseby, Albert A., Chicago, Ill. Reproducer for talking-machines. No. 1,308,358; July 1; v. 264; p. 64.
- Huseby, Albert A., Chicago, Ill. Music-roll carton. No. 1,317,501; Sept. 30; v. 266; p. 669.
- Huseby, Albert A., Chicago, Ill. Tone-arm adjustment for talking-machines. No. 1,318,153; Oct. 7; v. 267; p. 94.
- Husebye, Helmer. (See Olavessen, Johan A., assignor.)
- Huser, Adolf T. (See Haning, Ernst, assignor.)
- Husher, John N., Monessen, Pa. Valve-controlling mechanism. No. 1,326,402; Dec. 30; v. 269; p. 756.
- Huss, William C., Cincinnati, Ohio. Illustrative phonograph. No. 1,307,550; June 24; v. 263; p. 528.
- Hussa, Theodore F., Montclair, N. J. Element for singing apparatus. No. 1,321,828; Nov. 18; v. 268; p. 392.
- Hussa, Theodore F., Montclair, N. J. Element for singing apparatus. No. 1,324,051; Dec. 9; v. 269; p. 200.
- Hussander, Arthur F., Chicago, Ill. Power-gearing. No. 1,315,962; Sept. 16; v. 266; p. 296.
- Hussey, Charles A., Battle Creek, Mich. Relief-valve for pneumatic tires. No. 1,325,019; Dec. 16; v. 269; p. 445.
- Hussey, Percival M., and C. E. Irvine, Winnipeg, Manitoba, Canada. Bomb-dropping machine. No. 1,305,214; May 27; v. 262; p. 617.
- Hussey, William A., Oakland, assignor, by mesne assignments, of three-fourths to J. H. Alling and one-fourth to F. M. Wright, San Francisco, Calif. Electrolytic cyaniding process. No. 1,324,852; Dec. 9; v. 269; p. 257.
- Hussey, William J., Sturgeon Falls, Ontario, Canada, assignor to H. Gnetter, Chicago, Ill. Barking apparatus. No. 1,312,633; Aug. 12; v. 265; p. 178.
- Husted, Clifford M., Jersey City, N. J., assignor to Standard Oil Company. Apparatus for treating fullers' earth and similar materials. No. 1,317,372; Sept. 30; v. 266; p. 644.
- Husted, Harry A., assignor to The Husted Manufacturing Co., Youngstown, Ohio. Automobile-steering-wheel lock. No. 1,324,823; Dec. 16; v. 269; p. 409.
- Husted Manufacturing Co., The. (See Husted, Harry A., assignor.)
- Hustinx, Rene. (See Dyuenss, Tossauu, assignor.)
- Huston, Frederick T., Fort Wayne, Ind. Apparatus for electrically welding boiler-tubes to flue-sheets thereof. No. 1,318,495; Oct. 14; v. 267; p. 221.
- Huston, John T., Columbus, Ga. Bean-hulling machine. No. 1,325,989; Dec. 23; v. 269; p. 642.
- Hutchcraft, David K., assignor to Indiana Air Pump Company, Indianapolis, Ind. Air-lift-pump control. No. 1,322,305; Nov. 18; v. 268; p. 481.
- Hutchings, Albin H., Buffalo, N. Y. Sash-fastener. No. 1,299,834; Apr. 8; v. 261; p. 306.
- Hutchings, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-camera back. No. 1,291,004; Jan. 14; v. 258; p. 262.
- Hutchings, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. No. 1,321,101; Nov. 11; v. 268; p. 203.
- Hutchings, George B. (See Burgess, John A., assignor.)
- Hutchings, Herbert H., Arlington, N. J. Flash-light. No. 1,321,639; Nov. 11; v. 268; p. 305.
- Hutchings, Olin E. (See Chase and Hutchings.)
- Hutchins Car Roofing Company. (See Hawksworth, David W., assignor.)
- Hutchins Car Roofing Company. (See Thompson and Wilson, assignors.)
- Hutchins Car Roofing Company. (See Whyte, Frederick M., assignor.)
- Hutchins, Edward, Montclair, N. J., assignor to International Paper Company. Barking-drum. No. 1,300,730; Apr. 15; v. 261; p. 524.
- Hutchins, Frank E., et al. (See Rosentreter, Albert J., assignor.)
- Hutchins, George F., and G. Crossland, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Double-pile fabric and making the same. No. 1,207,008; June 17; v. 263; p. 396.
- Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Electric furnace. No. 1,310,341; July 15; v. 264; p. 494.
- Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Purifying aluminous materials. No. 1,310,342; July 15; v. 264; p. 495.
- Hutchins, Otis, assignor to The Carborundum Company, Niagara Falls, N. Y. Treating diaspor. No. 1,326,595; Dec. 30; v. 269; p. 793.
- Hutchins, Otis, and A. W. Olver, assignors to The Carborundum Company, Niagara Falls, N. Y. Electrical resistance material and making. No. 1,322,573; Nov. 25; v. 268; p. 583.
- Hutchins, Thomas W. S., Middlewich, England. Manufacture of carbon blocks. No. 1,304,053; May 20; v. 262; p. 359.
- Hutchins, Thomas W. S., Middlewich, England. Manufacture of lampblack. No. 1,309,070; July 8; v. 264; p. 224.
- Hutchins, Thomas W. S., Middlewich, England. Muffle-furnace. No. 1,325,674; Dec. 23; v. 269; p. 584.
- Hutchins, William H., assignor to North East Electric Company, Rochester, N. Y. Dynamo-casing. No. 1,306,695; June 17; v. 263; p. 339.
- Hutchinson, Cecil O. (See Hutchinson, William F., Sr., assignor.)
- Hutchinson, Charles W., Milwaukee, Wis. Traction attachment for motor-vehicles. No. 1,319,221; Oct. 21; v. 267; p. 385.
- Hutchinson, David M. (See Hachmann, Frederick, assignor.)
- Hutchinson, Edson L., Honolulu, Hawaii. Attachment for shaving-brushes. No. 1,295,899; Mar. 4; v. 260; p. 18.
- Hutchinson, George, Chicago, Ill. Cutting or pressing tool. No. 1,298,951; Apr. 1; v. 261; p. 77.
- Hutchinson, Henry G., Cleveland, Ohio. Heater for automobile bodies. No. 1,318,875; Oct. 14; v. 267; p. 293.
- Hutchinson, Job, Brooklyn, N. Y. Opposed revolving-cylinder internal-combustion motor. No. 1,321,045; Nov. 4; v. 268; p. 130.
- Hutchinson, Job, Brooklyn, N. Y. Revolving-cylinder internal-combustion motor. No. 1,321,046; Nov. 4; v. 268; p. 130.
- Hutchinson, Job, Brooklyn, N. Y. Internal-combustion engine. No. 1,321,047; Nov. 4; v. 268; p. 130.
- Hutchinson, Joseph, and C. C. Hamilton, Gull Lake, Saskatchewan, Canada. Damper for stove-pipes. No. 1,308,492; July 1; v. 264; p. 88.
- Hutchinson, Morton C., Woodbury, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Portable driving and speed-reducing device for reamers, drills, and the like. No. 1,305,111; May 27; v. 262; p. 597.
- Hutchinson, Morton C., Woodbury, N. J., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic-tool handle. No. 1,315,554; Sept. 9; v. 266; p. 207.
- Hutchinson, Morton C., Woodbury, N. J., assignor to Southwark Foundry & Machine Co., Philadelphia, Pa. Gag and stock-release for punching-machines. No. 1,317,373; Sept. 30; v. 266; p. 644.
- Hutchinson, Thomas H. (See Peacock and Hutchinson.)
- Hutchinson, Warren B. (See Le Fevre and Hutchinson.)
- Hutchinson, William A., Charleston, S. C. Drier. No. 1,308,241; July 1; v. 264; p. 43.
- Hutchinson, William S., Bethlehem, Pa. Mill-building roof-system support and crane-column. No. 1,291,529; Jan. 14; v. 258; p. 385.
- Hutchinson, William S., Oyster Bay, N. Y. Drum-brake. No. 1,310,992; July 22; v. 264; p. 646.
- Hutchison, Miller R., West Orange, N. J. Staple forming and setting machine. No. 1,296,960; Mar. 11; v. 260; p. 295.
- Hutchison, Miller R., West Orange, N. J. Motor-starting mechanism. No. 1,306,183; June 10; v. 263; p. 209.
- Hutchison, Miller R., and C. W. Norton, assignors to Edison Storage Battery Company, West Orange, N. J. Battery-supporting device. No. 1,313,384; Aug. 19; v. 265; p. 339.
- Hutchison, Miller R., West Orange, N. J., assignor to Lovell-McConnell Manufacturing Company, Diaphragm-horn. No. 1,320,759; Nov. 4; v. 268; p. 75.
- Hutchison, William F., Sr., assignor of one-third to J. Plescia and one-half to C. O. Hutchison, Fort Worth, Tex. Indicator for vehicles. No. 1,326,510; Dec. 30; v. 269; p. 777.
- Huth, Max, Berlin-Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Making anodes of solid manganese peroxid. No. 1,296,188; Mar. 4; v. 260; p. 86.
- Hutt, Arthur C., Wellington, England. Soot-cleaning appliance for boilers. No. 1,315,839; Sept. 9; v. 266; p. 258.
- Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Means for controlling the circuits of electric motors. No. 1,306,544; June 10; v. 263; p. 278.
- Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Contactor. No. 1,316,955; Sept. 23; v. 266; p. 529.
- Hutto, Beecher C., Pelion, S. C. Lamp-chimney. No. 1,295,322; Feb. 25; v. 259; p. 634.
- Hutton, Ernest, Wayland, Ky. Rail-bond. No. 1,321,373; Nov. 11; v. 268; p. 255.
- Hutton, Thomas L. (See Murphy, Nelson, assignor.)
- Hutton, William, and W. Jorgensen, Omaha, Nebr. Storm sewer-inlet. No. 1,311,819; July 29; v. 264; p. 833.
- Hutty, Harry F., et al. (See Lamberson, George E., assignor.)
- Huxford, Jere O., Wainwright, Ala. Ascending, descending, and driving means for dirigible airships. No. 1,302,048; Apr. 29; v. 261; p. 854.
- Huxford, William, South English, Iowa. Stock-feeder. No. 1,324,595; Dec. 9; v. 269; p. 305.
- Iveem, John J., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Slide bearing for railway-cars. No. 1,290,207; Jan. 7; v. 258; p. 47.
- Ivid, Marinus, Chicago, Ill. Open-hearth furnace. No. 1,296,189; Mar. 4; v. 260; p. 86.
- Hyatt, Charles M., assignor to The Embossing Company, Albany, N. Y. Manufacture of tops for bottle-stoppers. No. 1,322,792; Nov. 25; v. 268; p. 624.
- Hyatt, Frank S., Brooklyn, N. Y. Vanity-box. No. 1,321,450; Nov. 11; v. 268; p. 271.



## Alphabetical list of patentees—Continued.

- Hyatt Ignition Company. (See Hyatt, Samuel W., assignor.)
- Hyatt, John W., Newark, N. J. Automatic punch. No. 1,292,323; Jan. 21; v. 258; p. 610.
- Hyatt, John W., East Orange, N. J. Apparatus for cold-rolling shaft-bars. No. 1,302,558; May 6; v. 262; p. 15.
- Hyatt, John W., Newark, N. J. Shaft-feeding device. No. 1,305,112; May 27; v. 262; p. 597.
- Hyatt, Nelson L. and H. Lloyd, Dresden, Ontario, Canada. Aeroplane-propelling device. No. 1,298,724; Apr. 1; v. 261; p. 24.
- Hyatt Roller Bearing Division, United-Motor Corporation. (See Lockwood, Charles S., assignor.)
- Hyatt Roller Bearing Division, United Motors Corporation. (See Weiss and Koth, assignors.)
- Hyatt, Samuel W., Columbus, Ohio, assignor to Hyatt Ignition Company. Spark-plug. No. 1,325,403; Dec. 16; v. 269; p. 517.
- Hyatt, Valentine G., Jr., Welby, Utah. Air-motor. No. 1,294,910; Feb. 18; v. 259; p. 518.
- Hyde, Augustus C., Perivale, England. Means to be employed in the electric welding of iron or steel or alloys thereof. No. 1,323,768; Dec. 2; v. 269; p. 102.
- Hyde, Edward B., Crofton, Nebr. Riding attachment for harrows. No. 1,295,990; Mar. 4; v. 260; p. 39.
- Hyde, Frank, Sioux Falls, S. D. Razor-blade-honing handle. No. 1,326,596; Dec. 30; v. 269; p. 793.
- Hyde, Frank D. (See Hirschthal, Meyer, assignor.)
- Hyde, James M., Palo Alto, Cal. Apparatus for the concentration of ores. No. 1,296,190; Mar. 4; v. 260; p. 86.
- Hyde, Joseph, Providence, R. I. Breech-block-operating device. No. 1,291,677; Jan. 14; v. 258; p. 420.
- Hyde, Robert, Mechanicsburg, Ohio. Railway-switch. No. 1,291,005; Jan. 14; v. 258; p. 262.
- Hydesaburo, Ohashi & Co. (See Ohashi, Hydesaburo, assignor.)
- Hydraulic Oil Systems Corporation. (See Farr, Frederick G., assignor.)
- Hydraulic Pressed Steel Company, The. (See Culhane, Patrick J., Jr., assignor.)
- Hydraulic Pressed Steel Company, The. (See Davidson, Harry O., assignor.)
- Hydraulic Pressed Steel Company, The. (See Davidson and Hillman, assignors.)
- Hydraulic Pressed Steel Company. (See Foster, Henry J., assignor.)
- Hydrex Engineering Corp. (Hanau, Rudolph L., assignor.)
- Hydrogenated Oil Company. (See Ellis, Carleton, assignor.) (Relssue.)
- Hydrogenation Company, The. (See Morrison, Harley J., assignor.)
- Hyer, John R., Albany, N. Y. Bag-holder. No. 1,322,445; Nov. 18; v. 268; p. 508.
- Hyland, Charles. (See Dodds and Hyland.)
- Hyland, Charles. (See Dodds, Stafford, and Hyland.)
- Hyland, Charles, St. Albans, England. Motor-vehicle for roads or rails. No. 1,322,903; Nov. 25; v. 268; p. 645.
- Hyland, Charles, assignor to Flannery Bolt Company, Pittsburgh, Pa. Flexible staybolt connection for boilers. No. 1,319,772; Oct. 28; v. 267; p. 512.
- Hyland, John L., St. Paul, Minn. Boat-launching apparatus. No. 1,304,316; May 20; v. 262; p. 408.
- Hyland, John V., New York, N. Y. Egg-container. No. 1,323,189; Nov. 25; v. 268; p. 700.
- Hyle, Jacob A., St. Louis, Mo., and J. W. Herman, Philadelphia, Pa., assignors to Tri-City Steel Company, St. Louis, Mo. Metallic railway-tie. No. 1,296,396; Mar. 4; v. 260; p. 131.
- Hyle, Jacob A., St. Louis, Mo., assignor to Tri-City Steel Company. Metallic railway-tie. No. 1,322,446; Nov. 18; v. 268; p. 508.
- Hyman, Charles H., and J. F. Moeller, Chicago, Ill., assignors to 4 in. 1 Safety Razor Company, Bismarck, N. D. Razor. No. 1,324,010; Dec. 2; v. 269; p. 148.
- Hymans, Frederick, Glen Ridge, N. J. Bell-hoist. No. 1,309,632; July 15; v. 264; p. 366.
- Hymans, Frederick, Glen Ridge, assignor to Otis Elevator Company, Jersey City, N. J. Governor. No. 1,309,631; July 15; v. 264; p. 365.
- Hynek, Frederic I. S., Chicago, Ill. Portable shower-bath. No. 1,302,559; May 6; v. 262; p. 15.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Thermostat. No. 1,293,786; Feb. 11; v. 259; p. 220.
- Hynes, Lee P., assignor to Thermo Electric Regulator Co., Chicago, Ill. Resistance unit. No. 1,297,472; Mar. 18; v. 260; p. 433.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Heater system. No. 1,303,323; May 13; v. 262; p. 188.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Heater system. No. 1,303,669; May 13; v. 262; p. 251.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Heater system. No. 1,303,670; May 13; v. 262; p. 251.
- Hynes, Lee P., Albany, N. Y., assignor to Consolidated Car Heating Company. Push-button. No. 1,316,158; Sept. 16; v. 266; p. 331.
- Hypes, Layman S., Bluefield, W. Va. Adjustable clevis attachment for plows. No. 1,311,230; July 29; v. 264; p. 723.
- I. B. Kleinert Rubber Company. (See Guinzburg, George K., assignor.)
- I. B. Kleinert Rubber Company. (See Guinzburg, Victor, assignor.)
- I. D. Wolfson, Inc. (See Wolfson, Isadore D., assignor.)
- I. H. Dexter Company. (See Dexter, Irven H., assignor.)
- Iacono, Joseph, New Brunswick, N. J. Spark-plug. No. 1,306,817; June 17; v. 263; p. 361.
- Iams, Abraham M., Gary, Ind. Furnace. No. 1,311,896; Aug. 5; v. 265; p. 9.
- Ibach, Emil, assignor to Budd Wheel Corporation, Philadelphia, Pa. Hub structure. No. 1,302,049; Apr. 29; v. 261; p. 854.
- Ibershoff, Adolph E., Cleveland, Ohio. Oculist's testing-frame. No. 1,293,450; Feb. 4; v. 259; p. 111.
- Ibusuki, Kiyoshi, Kansas City, Mo. Auto-engine-valve-spring tool. No. 1,324,052; Dec. 9; v. 269; p. 200.
- Ibusuki, Kiyoshi, Kansas City, Mo. Clasp-fastener. No. 1,324,053; Dec. 9; v. 269; p. 200.
- Icove, Aaron E., et al. (See Urdang, Jacob S., assignor.)
- Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
- Ide, Arthur W. (See Whitney and Ide.)
- Ide, Harry H. (See Currier and Ide.)
- Ide, Harry L. (See Maurer, Henry E., Jr., assignor.)
- Ide, Joseph A., Palmerton, Pa. Rack. No. 1,325,472; Dec. 16; v. 269; p. 529.
- Ide Patents Corporation. (See Ide, Roy W., assignor.)
- Ide, Peter, McCook, Nebr. Automobile-lifter. No. 1,299,730; Apr. 8; v. 261; p. 282.
- Ide, Roy W., assignor to Ide Patents Corporation, Springfield, Ill. Internal-combustion engine. No. 1,324,824; Dec. 16; v. 269; p. 409.
- Ide, Tsukasa, Bingham, Utah. Station-indicator. No. 1,316,795; Sept. 23; v. 266; p. 500.
- Ideal Coated Paper Company. (See Miller, Henry J., assignor.)
- Ideal Continuous Cyaniding Process Company. (See Tanner, Albert F., assignor.)
- Ideal Removable Body Co. (See Avery, Irving E., assignor.)
- Ideal Roller Co. (See Wolever, Franklin H., assignor.)
- Ideal Roller Company. (See Linder, Oscar, assignor.)
- Ideal Roller Company. (See Wolever and Price, assignors.)
- Ideal Stencil Machine Company. (See Geist, Burnett P., assignor.)
- Ideal Wheel Company, The. (See Strietelmeier, John E., assignor.)
- Identigraph Company, The. (See Flak, Peter A., assignor.)
- Idle, Walter W., St. Paris, Ohio. Currycomb. No. 1,324,899; Dec. 16; v. 269; p. 423.
- Idone, Ralph C., Cleveland, Ohio. Bath-tub attachment. No. 1,298,215; Mar. 25; v. 260; p. 618.
- Iglehart, Charles A., Oak Park, Ill. Silo. No. 1,292,472; Jan. 28; v. 258; p. 665.
- Igou, Dennis T., assignor to The Igou Manufacturing Company, Springfield, Ohio. Machine for making stick-candy. No. 1,315,963; Sept. 16; v. 266; p. 296.
- Igou Manufacturing Company, The. (See Igou, Dennis T., assignor.)
- Ihde, Frederick H. (See Young and Ihde.)
- Ihrmark, Charles G., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Tool-holder. No. 1,311,897; Aug. 5; v. 265; p. 9.
- Ike, Hiyakumatsu, Buena Park, Calif. Garden implement. No. 1,301,442; Apr. 22; v. 261; p. 707.
- Ike, Hiyakumatsu, Buena Park, Calif. Combined harrow and pulverizer. No. 1,301,443; Apr. 22; v. 261; p. 707.
- Ikeda, Etsutaro, Tokyo, Japan. Manufacturing tires. No. 1,319,003; Oct. 14; v. 267; p. 317.
- Ilczuk, Dmytre. (See Wytrwal, Stanley, assignor.)
- Ile, William, Toronto, Ontario, Canada. Electric-plug receptacle. No. 1,300,270; Apr. 15; v. 261; p. 426.
- Ile, William, New York, N. Y. Attachment-plug. No. 1,313,089; Aug. 12; v. 265; p. 267.
- Iles, Albert S., Birmingham, England. Apparatus for playing table and like games. No. 1,310,482; July 22; v. 264; p. 551.
- Ilford Limited. (See Renwick and Bloch, assignors.)
- Ilg Electric Ventilating Company. (See Frank, John M., assignor.)
- Ilg, Robert A., Chicago, Ill. Air washer and humidifier. No. 1,309,737; July 15; v. 264; p. 385.
- Ilitz, Michael, assignor to Buzzacott Camp and Field Equipment Co., Chicago, Ill. Rolling kitchen. No. 1,291,006; Jan. 14; v. 258; p. 263.
- Illas, José, Habana, Cuba. Amplification of linseed-oil. No. 1,303,671; May 13; v. 262; p. 251.
- Illemann, Robert, Port Dundas, Glasgow, Scotland. Bituminous composition. No. 1,296,083; Mar. 4; v. 260; p. 61.
- Ilgen, Mary A., Des Moines, Iowa. Summer automobilehood. No. 1,316,956; Sept. 23; v. 266; p. 529.
- Illias, Albert, assignor of one-half to C. Schmidt, Newark, N. J. Valve-cooling device. No. 1,294,911; Feb. 18; v. 259; p. 518.



- Illinger, Benjamin G., Brooklyn, N. Y. Vegetable-cutter. No. 1,321,640; Nov. 11; v. 268; p. 306.
- Illingworth, William H., Halifax, England. Electrical cut-out. No. 1,316,095; Sept. 16; v. 266; p. 320.
- Illinois Engineering Company. (See Gifford, Robert L., assignor.)
- Illinois Glass Company. (See Seabold, Walter G., assignor.)
- Illinois Motor Company. (See Roehl, Richard F., assignor.)
- Illinois-Pacific Glass Company. (See McCauley, Robert E., assignor.)
- Illinois Tool Works. (See Olson, Carl G., assignor.)
- Illinois Watch Company. (See De Long, Charles E., assignor.)
- Illy, Armand. (See Clarke and Illy.)
- Ittis, Alphonse, Rochester, N. Y. Machine for cutting noodles. No. 1,310,343; July 15; v. 264; p. 495.
- Ittis, Alphonse, Rochester, N. Y. Miter-box. No. 1,316,306; Sept. 16; v. 266; p. 359.
- Imaizumi, Tatsujiro, Seattle, Wash. Ship-stabilizer. No. 1,299,186; Apr. 1; v. 261; p. 130.
- Imaizumi, Tatsujiro, Seattle, Wash. Uterine syringe. No. 1,304,054; May 20; v. 262; p. 359.
- Imaizumi, Tatsujiro, Seattle, Wash. Life-buoy. No. 1,305,606; June 3; v. 263; p. 73.
- Imaizumi, Tatsujiro, Seattle, Wash. Pencil-sharpener. No. 1,306,903; June 17; v. 263; p. 377.
- Imaizumi, Tatsujiro, Seattle, Wash. Canteen-filter. No. 1,308,242; July 1; v. 264; p. 43.
- Imaizumi, Tatsujiro, Seattle, Wash. Life-raft. No. 1,326,866; Dec. 30; v. 269; p. 844.
- Imes, Charles H. (See Hewes, Walter H., assignor.)
- Imhoff, Harry G., Waterloo, Iowa. Pneumatic tire. No. 1,312,482; Aug. 5; v. 265; p. 118.
- Immer, Samuel N. (See Upton and Immer.)
- Imperial Brass Manufacturing Company, The. (See Pettis, John G., assignor.)
- Imperial Piano Player Company. (See Herman, Harry E., assignor.)
- Imperial Trust for the Encouragement of Scientific and Industrial Research, The, *et al.* (See Bengough and Hudson, assignors.)
- Imperial Trust for the Encouragement of Scientific and Industrial Research, The, *et al.* (See Rosenhain and Rodd, assignors.)
- Impey, Robert R. (See Platt, Hein, and Impey.)
- Import and By Products Company, The. (See Appelbaum, Alan I., assignor.)
- Import Sales Company. (See Kahn, Walter D., assignor.)
- Improved Manufacturing Company. (See Enck, Herbert E., assignor.)
- Improved Paper Machinery Company. (See Haug, Anton J., assignor.)
- Imus, James H., assignor to The Ohio Rake Company, Dayton, Ohio. Potato-planter. No. 1,322,574; Nov. 25; v. 268; p. 583.
- Indahl, Mauritz C. (See Bancroft and Indahl.)
- Indahl, Mauritz C. (See Huber and Indahl.)
- Indahl, Mauritz C., Philadelphia, Pa. Driving mechanism. No. 1,308,634; July 1; v. 264; p. 115.
- Indahl, Mauritz C., Philadelphia, Pa. Differential mechanism. No. 1,324,253; Dec. 9; v. 269; p. 238.
- Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Typographic casting-machine. No. 1,300,271; Apr. 15; v. 261; p. 426.
- Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix-holder for type-casting machines. No. 1,307,671; June 24; v. 263; p. 549.
- Independent Cracker & Biscuit Co. (See Schendel, William E., assignor.)
- Independent Filter Press Co. (See Hagstrom, Joel E., assignor.)
- Independent Heating Company. (See Graves, Randel, assignor.)
- Independent Lamp & Wire Company. (See Weiger, Joseph A., assignor.)
- Independent Non-Freezing Powder Company. (See Walker, Charles E., assignor.)
- Independent Pneumatic Tool Company. (See Nelson, John T., assignor.)
- Inderrleden, A. Henry, Sr., St. Bernard, Ohio. Collar-shape retainer. No. 1,316,577; Sept. 23; v. 266; p. 461.
- Index Visible. (See Hayes, Robert D., assignor.)
- Indian Packing Company. (See Beecher, Edward, assignor.)
- Indiana Air Pump Company. (See Hutchcraft, David K., assignor.)
- Indiana Lamp Company. (See De Martin, Charles L., assignor.)
- Indiana Manufacturing Company, The. (See Baker, Abner D., assignor.)
- Indiana Manufacturing Company, The. (See Carter, Frank B., assignor.)
- Indiana Manufacturing Company, The. (See MacGregor Wallace F., assignor.)
- Indianapolis Manufacturing Company. (See Nordyke, Horace W., assignor.)
- Indianapolis Manufacturing Company. (See Nordyke and Norris, assignors.)
- Individual Drinking Cup Company. (See Luellen, Lawrence W., assignor.)
- Industrial Apparatus Corporation. (See Williamson, George B., assignor.)
- Industrial Appliance Company. (See Logan, John I., assignor.)
- Industrial Controller Company. (See Van Valkenburg, Hermon L., assignor.)
- Industrial Development Company. (See Goodspeed, Arthur B., assignor.)
- Industrial Electric Furnace Company. (See Snyder, Frederick T., assignor.)
- Industrial Inventions Limited. (See Perry, Frank, assignor.)
- Industrial Manufacturing Company, The. (See Du Bois and Payne, assignors.)
- Industrial Research Corporation. (See Belden, Edward H., assignor.)
- Industrial Research Laboratories, The. (See Gerlach and Lihme, assignors.)
- Industrial Service Company. (See Jaeger, Otto, assignor.)
- Ingalls, Alton W., Redlands, Calif. Direction-indicator for motor-vehicles. No. 1,323,866; Dec. 2; v. 269; p. 121.
- Ingalls, Frank C., Newark, N. J. Heating device. No. 1,295,509; Feb. 25; v. 259; p. 678.
- Ingalls, William A., Omaha, Nebr. Wrench. No. 1,315,506; Sept. 9; v. 266; p. 198.
- Ingalls, Willis A., Troy, N. Y. Knitting-machine. No. 1,309,288; July 8; v. 264; p. 264.
- Ingeberg, Henry C. M., Sandviken, near Christiania, Norway, assignor to Morsk Hydro-Elektrisk Kvaelfaktieselskab, Christiania, Norway. Electrolysis of fused electrolytes. No. 1,299,947; Apr. 8; v. 261; p. 330.
- Ingells, James, Muskegon, Mich. Propeller-wheel. No. 1,313,598; Aug. 19; v. 265; p. 380.
- Ingells, James, Muskegon, Mich. Aeroplane propeller and tractor. No. 1,313,599; Aug. 19; v. 265; p. 380.
- Ingersoll, Howard L., White Plains, N. Y. Draft-arm for railway-cars. No. 1,318,448; Oct. 14; v. 267; p. 212.
- Ingersoll, Howard L., White Plains, N. Y. Car-underframing. No. 1,318,449; Oct. 14; v. 267; p. 212.
- Ingersoll-Rand Company. (See Abrams, Herbert T., assignor.)
- Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
- Ingersoll-Rand Company. (See Bayles and Slater, assignors.)
- Ingersoll-Rand Company. (See Gibson, Arthur H., assignor.)
- Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
- Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
- Ingersoll-Rand Company. (See Ihrmark, Charles G., assignor.)
- Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
- Ingersoll-Rand Company. (See Peters, Arthur E., assignor.)
- Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
- Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
- Ingersoll-Rand Company. (See Smith, William A., assignor.)
- Ingle, Arthur H. (See Putnam, Salmon W., 3d, assignor.)
- Ingle, Arthur H., Rochester, N. Y. Power-operated tail-stock for lathes. No. 1,326,597; Dec. 30; v. 269; p. 794.
- Ingram, Alfred, *et al.* (See Kettler, Carl W., assignor.)
- Ingram, Alfred and H., Brooklyn, N. Y. Closure for bottles, jars, and other receptacles. No. 1,292,473; Jan. 28; v. 258; p. 665.
- Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,324,254; Dec. 9; v. 269; p. 238.
- Ingram, David R., Elkins, W. Va. Furnace construction. No. 1,326,060; Dec. 23; v. 269; p. 656.
- Ingram, George W., Houston, Tex. Valve-remover. No. 1,323,476; Dec. 2; v. 269; p. 48.
- Ingram, Harry. (See Ingram, Alfred and H.)
- Ingram, Harry, *et al.* (See Kettler, Carl W., assignor.)
- Ingram, Joseph D., Amarillo, Tex. Motor-vehicle. No. 1,312,733; Aug. 12; v. 265; p. 197.
- Ingram, Monroe M. (See Doak, John H., assignor.)
- Ingram, Oscar L., Walla Walla, Wash., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,302,050; Apr. 29; v. 261; p. 854.
- Ingram, Robert L., Lilesville, N. C. Cotton-chopper. No. 1,325,566; Dec. 23; v. 269; p. 564.
- Ingram, Walter L., Snowdown, assignor of one-half to M. Moore, Montgomery, Ala. Signal for Motor-vehicles. No. 1,321,374; Nov. 11; v. 268; p. 255.
- Ingram, Walter M., Baltimore, assignor to A. W. Fuss, Glyndon, Md. Seal-making machine. No. 1,293,787; Feb. 11; v. 259; p. 220.
- Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)



## Alphabetical list of patentees—Continued.

- Ingrassia, Anthony, Rockford, Ill. Toy cannon. No. 1,315,841; Sept. 9; v. 266; p. 258.
- Inland Machine Works. (See Flammang, John, assignor.)
- Inland Machine Works. (See Frank, Harry S., assignor.)
- Inlow, John S. (See Hill, Joe H., assignor.)
- Inman, David W., Versailles, Ohio. Combination paddle and tongs. No. 1,308,359; July 1; v. 264; p. 64.
- Inman, Earl B., Portland, Oreg. Wood-splitting machine. No. 1,310,660; July 22; v. 264; p. 585.
- Inman, Edward R. (See Cameron and Inman.)
- Inman, Gilbert H., assignor of one-fifth to L. D. Wood, Taunton, Mass. House-wiring apparatus. No. 1,305,968; June 3; v. 263; p. 140.
- Inman, John F., Colorado, Colo. Wire-fence fastener. No. 1,314,808; Sept. 2; v. 266; p. 62.
- Inman Manufacturing Company. (See Joslin, Frank M., assignor.)
- Inman, William H., Keokuk, Iowa. Garden implement. No. 1,320,861; Nov. 4; v. 268; p. 95.
- Inoue, Hisaburo, Kyoto, assignor to G. Nakamura, Kobe, Japan. Manufacturing asphaltic plates and asphaltic articles of a similar nature. No. 1,304,483; May 20; v. 262; p. 441.
- Insel Company, The. (See Da Costa, Arthur V., assignor.)
- Inshaw, George R., Lockwood House, near Gartcosh, Scotland. Packing for rotary engines. No. 1,292,324; Jan. 21; v. 258; p. 610.
- Insinger, Alfred H., deceased; C. L. M. Insinger, executrix, assignor to The Insinger Company, Philadelphia, Pa. Dish-holding basket. No. 1,298,725; Apr. 1; v. 261; p. 24.
- Insinger, Catharine L. M., executrix. (See Insinger, Alfred H.)
- Insinger Company, The. (See Insinger, Alfred H., assignor.)
- Insko, Walter D., Anselmo, Nebr. Forcing-bed. No. 1,297,853; Mar. 18; v. 260; p. 515.
- Insley Manufacturing Company. (See Insley and Rasmussen, assignors.)
- Insley, William H. and A. C. Rasmussen, assignors to Insley Manufacturing Company, Indianapolis, Ind. Boom-skip gravity plant for concrete distribution. No. 1,324,900; Dec. 16; v. 269; p. 423.
- Institute of Metals, The, et al. (See Bengough and Hudson, assignors.)
- Insulation Development Corporation. (See Cook, William E., assignor.)
- Intercontinental Company. (See Bullard, Herbert A., assignor.)
- Intercontinental Company. (See Saliger, Alois B., assignor.)
- Interlocking Auto Rim Company. (See Harvey, Louis B., assignor.)
- Interlocking Rim and Wheel Company. (See Harvey, Louis B., assignor.)
- International Arms and Fuze Company. (See Hawkins, Wilford J., assignor.)
- International Arms and Fuze Company. (See Roberts, Abel H., assignor.)
- International Box Wrapper Corporation. (See Schneider, Conrad, assignor.)
- International Callophone Corporation. (See Kurman, Nathan A., assignor.)
- International Cap and Sealing Machine Company. (See Levey, Thomas J., assignor.)
- International Clay Machinery Co. (See Cite, Joseph D., assignor.)
- International Clay Machinery Company. (See McElroy, Roy H., assignor.)
- International Conveyor Corporation. (See Stuart, Francis L., assignor.)
- International Cork Company. (See Alberti, Emilio, assignor.)
- International Cork Company. (See Allatt, Thomas, assignor.)
- International Cork Company. (See Binder and Alberti, assignors.)
- International Cork Company. (See Jackson, William, assignor.)
- International Cork Company. (See Marsa, Melchor, assignor.)
- International Corset Company. (See Gardner, Marshall B., assignor.)
- International Crude Oil Storage Company. (See Bowles, William M., assignor.)
- International Earth-Boring Machine Company. (See Meyers, William A., assignor.)
- International Harvester Company. (See Benjamin, Bert R., assignor.)
- International Harvester Company. (See Bunting, Norman E., assignor.)
- International Harvester Company. (See Burgess, Edward W., assignor.)
- International Harvester Company. (See Charles, Edward S., assignor.)
- International Harvester Company. (See Dennis, Samuel K., assignor.)
- International Harvester Company. (See Ford, Ralph L., assignor.)
- International Harvester Company. (See Greising and Naylor, assignors.)
- International Harvester Company. (See Grieves, Albert, assignor.)
- International Harvester Company. (See Hagadone, Clinton A., assignor.)
- International Harvester Company. (See Hammer, Gustaf, assignor.)
- International Harvester Company. (See Holsey, Arthur, assignor.)
- International Harvester Company. (See Howe, Frank D., assignor.)
- International Harvester Company. (See Johnston and Kano, assignors.)
- International Harvester Company. (See Lindgren, Alexis C., assignor.)
- International Harvester Company. (See MacDonald, Howard D., assignor.)
- International Harvester Company. (See Merwin, George M., assignor.)
- International Harvester Company. (See Mott, Carl W., assignor.)
- International Harvester Company. (See Mowry, Edward, assignor.)
- International Harvester Company. (See Moxey, James A., assignor.)
- International Harvester Company. (See Osterholm, William C., assignor.)
- International Harvester Company. (See Pearson, Charles, assignor.)
- International Harvester Company. (See Peterson, Walter R., assignor.)
- International Harvester Company. (See Raad, Charles A. A., assignor.)
- International Harvester Company. (See Raney, Clemma R., assignor.)
- International Harvester Company. (See Rice, George L., assignor.)
- International Harvester Company. (See Robinson, Charles W., assignor.)
- International Harvester Company. (See Schrock, Edgar E. and E. M., assignors.)
- International Harvester Company. (See Sharp, Charles S., assignor.)
- International Harvester Company. (See Sharp, James A., assignor.)
- International Harvester Company. (See Sperry, Herbert B., assignor.)
- International Harvester Company. (See Sperry, Leonard B., assignor.)
- International Harvester Company. (See Sturrock, John, assignor.)
- International Instrument Company. (See Kendrick, Arthur, assignor.)
- International Mastentype Company. (See Masten, Matthew L., assignor.)
- International Money Machine Company. (See Hawley, Amos H., assignor.)
- International Money Machine Company. (See Mann, Miles H., assignor.)
- International Money Machine Company. (See Mann and Hawley, assignors.)
- International Motor Company. (See Frins, Maximilian C., assignor.)
- International Motor Company. (See Herreshoff, Alexander G., assignor.)
- International Motor Company. (See Hewitt and Leipert, assignors.)
- International Motor Company. (See House, Albert B., assignor.)
- International Motor Company. (See Masury, Alfred F., assignor.)
- International Moving Picture and Film Company. (See Killman, Thomas A., assignor.)
- International Munitions Co. (See Nichols, Frank L., assignor.)
- International Munitions Company. (See Farrell, Joseph E., Jr., assignor.)
- International Munitions Company. (See Knight and Nichols, assignors.)
- International Munitions Company. (See Nichols, Frank L., assignor.)
- International Munitions Company Inc. of Delaware. (See Nichols, Frank L., assignor.)
- International Nitrogen Company. (See Reid, James H., assignor.)
- International Paper Company. (See Dugas, Frederic, assignor.)
- International Paper Company. (See Hutchins, Edward, assignor.)
- International Paper Company. (See Lombard, Nathaniel, assignor.)
- International Paper Company. (See McAulay, George, assignor.)
- International Paper Company. (See Parks, George H., assignor.)
- International Paper Company. (See White, Ambrose H., assignor.)
- International Patent Licensing Corporation. (See Peters, William A., assignor.)
- International Pavement Company. (See Hemstreet, George P., assignor.)



- International Pavement Company. (See Whitney, George E., assignor.)
- International Precipitation Company. (See Anderson, Evald, assignor.)
- International Precipitation Company. (See Nestell, Raymond J., assignor.)
- International Precipitation Company. (See Schmidt, Arthur A., assignor.)
- International Precipitation Company. (See Schmidt, Walter A., assignor.)
- International Precipitation Company. (See Schmidt and Wolcott, assignors.)
- International Signal Company. (See Ballard, William C., Jr., assignor.)
- International Signal Company. (See Kroger and Powers, assignors.)
- International Time Recording Company of New York. (See Bryce, James W., assignor.)
- International Time Recording Company, of New York. (See Krautter, William F., assignor.)
- International Time Recording Company of New York. (See Larrabee, Clinton E., assignor.)
- Interstate Elastic Braid Company. (See Schaffer, Theodore A., assignor.)
- Interstate Iron and Steel Company. (See Hauk, Joseph, assignor.)
- Intertype Corporation. (See Homans, Thomas S., assignor.)
- Intertype Corporation. (See Johns, Thomas W., assignor.)
- Intertype Corporation. (See Rapprich, Gustave, assignor.)
- Introwitz, Anna, administratrix. (See Introwitz, Benjamin.)
- Introwitz, Benjamin, deceased, Chippewa Falls, Wis.; A. Introwitz administratrix. Auto direction-signal. No. 1,305,901; June 3; v. 263; p. 126.
- Inventions Specialty Company, The. (See Brouillette, Peter A., assignor.)
- Inventors Development Company. (See Helms, Arthur, assignor.)
- Invisible Stopper Company. (See Porter, George A., assignor.)
- Invisible Roll Screen Co., The. (See Berg, Charles I., assignor.)
- Iodice, Domenick, Watertown, Mass. Soil-pulverizer. No. 1,305,215; May 27; v. 262; p. 617.
- Iovino, Anthony. (See Crino, Domenico, assignor.)
- Iowa Gate Company. (See Stevens, Charles M., assignor.)
- Iowa Steel Post Company. (See Slade, Arthur R., assignor.)
- Ipsen, Carl J., Jamestown, N. Y. Carbureter. No. 1,307,975; June 24; v. 263; p. 606.
- Ireland, A Bertsell, F. L., and H. A., Norwich, N. Y. Winding-machine. No. 1,318,672; Oct. 14; v. 267; p. 254.
- Ireland, Frank L. (See Ireland, A Bertsell, F. L., and H. A.)
- Ireland, Harvey, North Emporia, Va. Crop cap or cover. No. 1,321,747; Nov. 11; v. 268; p. 326.
- Ireland, Harvey, North Emporia, Va. Milking-stool. No. 1,321,748; Nov. 11; v. 268; p. 326.
- Ireland, Herbert A. (See Ireland, A Bertsell, F. L., and H. A.)
- Ireland, Hugh. (See Webster, Walter G., assignor.)
- Ireland, John, Edinburgh, Scotland. Ship-davit. No. 1,291,902; Jan. 21; v. 258; p. 506.
- Ireland, Robert H., Brooklyn, N. Y. Game. No. 1,299,731; Apr. 8; v. 261; p. 282.
- Ireland, Robert H., New York, N. Y. Headlight-hood. No. 1,317,578; Sept. 30; v. 266; p. 684.
- Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Type-writing machine. No. 1,292,786; Jan. 28; v. 258; p. 741.
- Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Type-writing machine. No. 1,292,787; Jan. 28; v. 258; p. 741.
- Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Type-writing machine. No. 1,292,788; Jan. 28; v. 258; p. 741.
- Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Shorthand-machine. No. 1,296,191; Mar. 4; v. 260; p. 86.
- Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Shorthand-machine. No. 1,296,192; Mar. 4; v. 260; p. 86.
- Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Shorthand-machine. No. 1,318,323; Oct. 7; v. 267; p. 127.
- Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Shorthand-machine. No. 1,324,550; Dec. 9; v. 269; p. 296.
- Ireland, Ward S., assignor to National Shorthand Machine Company, St. Louis, Mo. Shorthand-machine. No. 1,324,551; Dec. 9; v. 269; p. 296.
- Ireland, Ward S., St. Louis, Mo., and W. E. Lippert, Cincinnati, Ohio, assignors to National Shorthand Machine Company, St. Louis, Mo. Type-writing machine. No. 1,310,832; July 22; v. 264; p. 617.
- Ireland, Ward S., St. Louis, Mo., and W. E. Lippert, Cincinnati, Ohio, assignors to National Shorthand Machine Company, St. Louis, Mo. Type-writing machine. No. 1,312,179; Aug. 5; v. 265; p. 62.
- Ireland, Ward S., St. Louis, Mo., and W. E. Lippert, Cincinnati, Ohio, assignors to National Shorthand Machine Company, St. Louis, Mo. Type-writing machine. No. 1,316,839; Sept. 23; v. 266; p. 508.
- Ireland, Ward S., St. Louis, Mo., and W. E. Lippert, Cincinnati, Ohio, assignors to National Shorthand Machine Company, St. Louis, Mo. Type-writing machine. No. 1,316,840; Sept. 23; v. 266; p. 508.
- Irey, Ralph G., Abilene, Kans. Barrel-closure. No. 1,320,862; Nov. 4; v. 268; p. 95.
- Irina, Ieremie, Dayton, Ohio. Smoke-dispenser. No. 1,301,563; Apr. 22; v. 261; p. 729.
- Irish, David J., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Liquid atomizer. No. 1,300,615; Apr. 15; v. 261; p. 499.
- Irlmeier, Joseph, Jr., Templeton, Iowa. Tractor-coupling. No. 1,304,055; May 20; v. 262; p. 359.
- Iroline Company of America, The. (See Hubbard, Prevost, assignor.)
- Iron City Products Company. (See Arnold, Edwin E., assignor.)
- Irsen, Jacob, New York, N. Y. Amusement device. No. 1,312,988; Aug. 12; v. 265; p. 248.
- Irvin, Archibald L., and W. E. Sidell, New York, N. Y. Combination unit way-bill system. No. 1,294,912; Feb. 18; v. 259; p. 518.
- Irvin, Henry B., Durant, Okla. Shipping-crate for cotton. No. 1,293,451; Feb. 4; v. 259; p. 111.
- Irvin, Henry B., and P. M. Bonneau, Durant, Okla. Attachment for cotton-compressors. No. 1,293,452; Feb. 4; v. 259; p. 111.
- Irvin, John C. (See Palmer and Irvin.)
- Irvin, Leslie L., Kenmore, N. Y. Safety parachute-pack. No. 1,323,983; Dec. 2; v. 269; p. 143.
- Irvin, Leslie L., Kenmore, N. Y. Safety-pack parachute device. No. 1,323,984; Dec. 2; v. 269; p. 143.
- Irvin, Ralph M., and A. P. Curtis, Granby, Colo. Telegraph-sounder. No. 1,319,773; Oct. 28; v. 267; p. 512.
- Irvin, Roy. (See Kohman, Irvin, and Cross.)
- Irvine, Catherine E. (See Hussey and Irvine.)
- Irvine, Richard, Detroit, Mich. Window-lock. No. 1,298,507; Mar. 25; v. 260; p. 681.
- Irvine, Richard S., San Francisco, Cal. Winding and re-winding mechanism for double tracker-board musical instruments. No. 1,294,666; Feb. 18; v. 259; p. 461.
- Irving, Ernest C., Westminster, London, England. Apparatus for controlling railway-trains in motion. No. 1,304,775; May 27; v. 262; p. 534.
- Irving, George H., Hayward, and B. F. Durphy, San Francisco, Calif. Burner. No. 1,315,188; Sept. 2; v. 266; p. 130.
- Irving, George H., Hayward, and B. F. Durphy, assignors to Fordzone Manufacturing Company, San Francisco, Calif. Oil-burner. No. 1,317,448; Sept. 30; v. 266; p. 659.
- Irving, James A., New York, N. Y. Smoking-pipe. No. 1,310,404; July 15; v. 264; p. 506.
- Irving, Joseph, Bisbee, Ariz. Treating ores. No. 1,296,523; Mar. 4; v. 260; p. 158.
- Irving-Pitt Manufacturing Company. (See Pitt, William P., assignor.)
- Irving, Walter E., Glenbrook, Conn. Bracket for stair-treads. No. 1,304,056; May 20; v. 262; p. 360.
- Irwin, Alexander G. and W. G., Winnipeg, Manitoba, Canada. Door-latch. No. 1,314,268; Aug. 26; v. 265; p. 541.
- Irwin Auger Bit Company, The. (See McPherson, Elmer T., assignor.)
- Irwin, Batte, Brooklyn, N. Y. Fluid-meter. No. 1,305,803; June 3; v. 263; p. 108.
- Irwin, Charles, Jeannette, Pa. Clamp. No. 1,301,702; Apr. 22; v. 261; p. 757.
- Irwin, Dewitt D., assignor of one-half to E. M. Knowles, East Liverpool, Ohio. Clay-pin drying and cutting machine. No. 1,315,507; Sept. 9; v. 266; p. 199.
- Irwin, Herbert G. (See Irwin, Samuel D. and H. G.)
- Irwin, Herbert G., Spur, Tex. Vaporizing attachment for internal-combustion engines. No. 1,290,208; Jan. 7; v. 258; p. 47.
- Irwin, Herbert G., Spur, Tex. Vacuum-operated make-and-break spark-plug. No. 1,306,667; June 10; v. 263; p. 301.
- Irwin-Hodson Company, The. (See Bronner, Frederick H., assignor.)
- Irwin, James R., San Francisco, Calif. Boat-davit. No. 1,304,984; May 27; v. 262; p. 573.
- Irwin, John A., assignor to American Pressweld Radiator Corporation, Detroit, Mich. Radiator. No. 1,314,064; Aug. 26; v. 265; p. 502.
- Irwin, John T., London, England. Electrical instrument for indicating instantaneous pressures or currents. No. 1,324,054; Dec. 9; v. 269; p. 200.
- Irwin, Robert R., Rochester, N. Y. Car-door construction. No. 1,297,854; Mar. 18; v. 260; p. 515.
- Irwin, Samuel D., Floydada, Tex. Battery-mud-extracting device. No. 1,296,961; Mar. 11; v. 260; p. 295.



## Alphabetical list of patentees—Continued.

- Irwin, Samuel D., Floydada, Tex. Vacuum-distributor for internal-combustion engines. No. 1,297,855; Mar. 18; v. 260; p. 516.
- Irwin, Samuel D., Floydada, Tex. Repairing aluminum castings. No. 1,309,033; July 8; v. 264; p. 218.
- Irwin, Samuel D., and S. E. Johnson, Jr., Floydada, Tex. Cotton-bur breaker and suction-fan. No. 1,322,020; Nov. 18; v. 268; p. 427.
- Irwin, Samuel D. and H. G., Floydada, Tex. Rotary cultivator. No. 1,322,447; Nov. 18; v. 268; p. 508.
- Irwin, William G. (See Irwin, Alexander G. and W. G.)
- Irwin, William Y., Norwood, Pa. Folded sheet of paper and the like. No. 1,307,443; June 24; v. 263; p. 509.
- Isaac, Louis, and R. Gross, New York, N. Y. Ornamented canvas shoe. No. 1,294,667; Feb. 18; v. 259; p. 461.
- Isaacs, Eugene L., St. Louis, Mo. Calendar-pad easel. No. 1,324,825; Dec. 16; v. 269; p. 410.
- Isaacson, Charles D., Brooklyn, N. Y. Perforated music-sheet. No. 1,322,448; Nov. 18; v. 268; p. 508.
- Isackson, John T. (See Johanson, Emil G., assignor.)
- Isakson, Emil, Anaconda, Mont. Game. No. 1,303,204; May 6; v. 262; p. 138.
- Isaman, Herbert W., Olean, N. Y. Lime-spreader. No. 1,299,948; Apr. 8; v. 261; p. 331.
- Isbell, John A. (See Wood and Isbell.)
- Isberg, Henry, Portland, Oreg. Game apparatus. No. 1,310,415; July 22; v. 264; p. 540.
- Isbester, Arthur G. S., Takapuna, assignor of one-third to J. H. C. Hunter, Parnell, Auckland, New Zealand. Construction of concrete ships, buildings, tanks, and the like. No. 1,317,137; Sept. 23; v. 266; p. 564.
- Isele, Frank, Chicago, Ill. Nose-bag. No. 1,296,962; Mar. 11; v. 260; p. 295.
- Iseman, Richard B., Churub, Pa. Traveling automobile turn-table. No. 1,313,486; Aug. 19; v. 265; p. 358.
- Iser, George, Brooklyn, assignor of one-half to H. H. Goldsmith, Woodhams, N. Y. Sash-cord connector. No. 1,326,734; Dec. 30; v. 269; p. 819.
- Isham, Lincoln, New York, N. Y. Banjo-snare. No. 1,291,903; Jan. 21; v. 258; p. 506.
- Isherwood, Harold. (See Pollen and Isherwood.)
- Isherwood, William H., Far Headingley, Leeds, and W. H. Turner, Leeds, England. Electric welding apparatus. No. 1,318,563; Oct. 14; v. 267; p. 234.
- Isidor, Joseph S., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame fastener. No. 1,324,901; Dec. 16; v. 269; p. 423.
- Isko Company, The. (See Tibbets, Milton, assignor.)
- Isko Company, The. (See Wolf, Fred W., assignor.)
- Island, James S., assignor of seventy per cent. to E. P. Coleman, Hamilton, Ontario, Canada. Apparatus for fixation of atmospheric nitrogen. No. 1,316,445; Sept. 16; v. 266; p. 386.
- Island, James S., assignor of seven-tenths to E. P. Coleman, Hamilton, Ontario, Canada. Fixation of atmospheric nitrogen. No. 1,317,705; Oct. 7; v. 267; p. 9.
- Isliker, Albert, assignor of one-half to Motosacoche Societe Anonyme, Geneva, Switzerland. Connecting-rod for piston-engines or machines. No. 1,295,091; Feb. 13; v. 259; p. 558.
- Isothermal Carburetor Company. (See Goodale and Bullard, assignors.)
- Israel, Lester L. (See McDowell and Israel.)
- Iszard, S. S., receiver. (See Boyer, Harrison D., assignor.)
- Itaya, Douglas J., Los Angeles, Calif. Meat-grinding machine. No. 1,310,572; July 22; v. 264; p. 568.
- Itchner, Charles, assignor of one-half to F. P. Smith, Chicago, Ill. Stairway. No. 1,291,904; Jan. 21; v. 258; p. 506.
- Itchner, Charles, assignor of one-half to F. P. Smith, Chicago, Ill. Stairway. No. 1,291,905; Jan. 21; v. 258; p. 506.
- Itchner, Charles, assignor of one-half to F. P. Smith, Chicago, Ill. Newel-post. No. 1,291,906; Jan. 21; v. 258; p. 507.
- Ittner, Anthony F., et al. (See Smith, James F., assignor.)
- Iuchi, Tahei, Tokushima, Japan. Rotatable scale. No. 1,307,585; June 24; v. 263; p. 534.
- Ivers, Harry B., Quincy, Mass. Snow-remover. No. 1,326,347; Dec. 30; v. 269; p. 746.
- Iverson Piano Player Company. (See Peterson, Claus E., assignor.)
- Ives, Frederic E., Philadelphia, Pa. Colored photographic image and producing same. No. 1,300,616; Apr. 15; v. 261; p. 500.
- Ives, Frederic E., Philadelphia, Pa. Color photography. No. 1,306,904; July 17; v. 263; p. 377.
- Ives, Frederic E., Philadelphia, Pa. Motion-picture in colors. No. 1,320,760; Nov. 4; v. 268; p. 75.
- Ives, George R., West Pike, Ullyses, Pa. Brick-cleaning machine. No. 1,312,980; Aug. 12; v. 265; p. 248.
- Ives, Minnie G. (See McMahon, Delbert L., assignor.)
- Ivory, James W., Philadelphia, Pa. Tooth-separator. No. 1,306,696; June 17; v. 263; p. 339.
- Ivory, James W., Philadelphia, Pa. Napkin or roll attachment for rubber-dam clamps. No. 1,306,697; June 17; v. 263; p. 340.
- Ivory, James W., Philadelphia, Pa. Safety or shield pin. No. 1,306,818; June 17; v. 263; p. 361.
- Ivory, James W., Philadelphia, Pa. Multiple-jaw rubber-dam clamp. No. 1,321,451; Nov. 11; v. 268; p. 271.
- Ivory, James W., Philadelphia, Pa. Rubber-dam punch. No. 1,321,452; Nov. 11; v. 268; p. 271.
- Ivy, William D., Memphis, Tenn. File-holder. No. 1,326,269; Dec. 30; v. 269; p. 732.
- Iwamoto, George H., Los Angeles, Calif. Polishing and finishing composition. No. 1,303,672; May 13; v. 262; p. 251.
- Iwanowski, Anton. (See Piasecki, Michal, assignor.)
- Iwatsubo, Gohel, Kyoto, Japan. Manufacturing paper leaves. No. 1,307,404; June 24; v. 263; p. 502.
- Iwersen, Gustav J. T., Point Roberts, Wash. Sash-holder. No. 1,304,880; May 27; v. 262; p. 554.
- Izen, Alexander, Detroit, Mich. Resilient wheel. No. 1,318,496; Oct. 14; v. 267; p. 221.
- Izzo, Francesco, Toronto, Ontario, Canada. Nut-lock. No. 1,300,617; Apr. 15; v. 261; p. 500.
- Izzo, Francesco, Toronto, Ontario, Canada. Nut-lock. No. 1,307,861; June 24; v. 263; p. 585.
- J. Faessler Manufacturing Company. (See Faessler, John W., assignor.)
- J. Faessler Mfg. Co. (See Maupin, Graves R., assignor.)
- J. Geo. Leyner Engineering Works Company, The. (See Ditson, Jesse, assignor.)
- J. Samuel White & Company. (See Brown, James H., assignor.)
- J. Samuel White & Company, Limited. (See Forster, Andrew, assignor.)
- J. Samuel White & Company. (See Forster and Brown, assignors.)
- J. Stone & Company. (See Darker, Alfred H., assignor.)
- J. Stone and Company. (See Drewry, Thomas, assignor.)
- J. Stone & Company Limited. (See Parsons, William S., assignor.)
- J. Stone & Company Limited. (See Rohman, Harry D., assignor.)
- J. Wiss & Sons Company. (See Rauh, Frederic H., assignor.)
- J. A. Fay & Egan Company. (See Meyers, John J., assignor.)
- J. A. Masonick Company. (See Masonick, Joseph A., assignor.)
- J. A. Thomas Company, The. (See Thomas, John A., assignor.)
- J and B Manufacturing Company. (See Jacobson, Edward B., assignor.)
- J. B. McCoy & Son. (See Weiss, Arthur J., assignor.)
- J. C. Deagan Inc. (See Little, Frederick B., assignor.)
- J. C. Welch Mfg. Co., The. (See Welch, Jesse C., assignor.)
- J. D. Este Company. (See Thomas, Hugh S., assignor.)
- J. D. Wallace & Co. (See Wallace, John D., assignor.)
- J. E. Mergott Company, The. (See Fuller, Franz A., assignor.)
- J. G. Brill Company, The. (See Adams, Walter S., assignor.)
- J. G. Brill Company. (See Dunlap, George W., assignor.)
- J. G. Cherry Company. (See Cherry and Carter, assignors.)
- J. G. Cherry Company. (See Van Kuren, Stephen J., assignor.)
- J. H. Day Company, The. (See Allison, Daniel K., assignor.)
- J. H. McLaughlin, Limited. (See McCormick, Joseph A., assignor.)
- J. H. Sager Company. (See Sager, James H., assignor.)
- J. I. Case Plow Works. (See Michael, Clement W., assignor.)
- J. I. Case Threshing Machine Co. (See Fellows, Hugh W., assignor.)
- J. I. Case Threshing Machine Company. (See Crandall and Krause, assignors.)
- J. I. Case Threshing Machine Company. (See Pocock, Ernest W., assignor.)
- J. L. Kraft & Bros. Co. (See Kraft, James L., assignor.) (Reissue.)
- J. M. Alvaz Societe par action pour Construction de Machines. (See Feldman, Shimon, assignor.)
- J. O. Jensen Company. (See Jensen and Henle, assignors.)
- J. P. Gordon Company, The. (See Brock, Frederick C., assignor.)
- J-S Development Corporation. (See Jessop, Earl P., assignor.)
- J. S. McChesney & Co. (See Guenther, Arthur G., assignor.)
- J. T. Slocomb Company. (See Slocomb, John T., assignor.)
- J. V. Meyering Trunk Company. (See Hamlin, Ben M., assignor.)
- J. V. Meyering Trunk Company. (See Shervey, Charles O., assignor.)
- J. W. Cruikshank Engineering Company. (See Cruikshank, James W., assignor.)
- J. W. P. Tire Company. (See Johnson, John A., assignor.)
- Jabez Burns & Sons. (See Greene, Richard A., assignor.)
- Jabez Burns & Sons. (See Schnuck, Edward F., assignor.)
- Jablensnik, Louis C., Bergensfield, N. J. Scabbard-hanger. No. 1,302,799; May 6; v. 262; p. 60.



## Alphabetical list of patentees—Continued.

- Jaburg Bros. (See Pinkney, Bryan D., assignor.)  
 Jack, Alexander G. M. (See Hadfield and Jack.)  
 Jack, Alexander G. M. (See Hadfield, Jack, Milne, and Parker.)  
 Jack, Arthur D., Winfield, Kans. Brake-lever set. No. 1,304,317; May 20; v. 262; p. 408.  
 Jack, James M., Winfield, Kans. Pitchfork. No. 1,302,375; Apr. 29; v. 261; p. 915.  
 Jack, John M. (See Perry and Jack.)  
 Jack, Marie H., Huntington, W. Va. Doll. No. 1,292,789; Jan. 28; v. 258; p. 741.  
 Jackman, Chester C., and R. S. Squire, assignors to Massachusetts Saw Works, Springfield, Mass. Hardening-machine. No. 1,290,561; Jan. 7; v. 258; p. 132.  
 Jackman, Chester C., and R. S. Squire assignors to Massachusetts Saw Works, Springfield, Mass. Hardening-machine. No. 1,299,949; Apr. 8; v. 261; p. 331.  
 Jackman, Franklin P., Portland, Oreg. Needle-threader. No. 1,306,968; June 10; v. 263; p. 301.  
 Jackman, George C., assignor of one-half to W. B. Gerard, Spokane, Wash. Combined explosion and steam engine mechanism. No. 1,315,508; Sept. 9; v. 266; p. 199.  
 Jackson, Alfred A., assignor of one-third to H. S. Walker and one-third to L. E. Packard, Denver, Colo. Automobile-signal. No. 1,292,790; Jan. 23; v. 258; p. 742.  
 Jackson, Anthony G. (See McKean, Edward S., assignor.)  
 Jackson, Benjamin F., Versailles, Ind. Self-propelling boat. No. 1,304,318; May 20; v. 262; p. 408.  
 Jackson, Bert R., Pender, Nebr. Wind-shield. No. 1,292,610; Jan. 28; v. 258; p. 700.  
 Jackson, Birney W., Philadelphia, Pa. Plow. No. 1,308,360; July 1; v. 264; p. 64.  
 Jackson, Carrie I., Pepin, Wis. Flexible axle. No. 1,309,944; July 15; v. 264; p. 424.  
 Jackson, Charles C., *et al.* (See Ryan, Neta M., assignor.)  
 Jackson, Charles N., New York, N. Y. Ledger and statement posting means. No. 1,324,504; Dec. 9; v. 269; p. 288.  
 Jackson, Charley S., Sabinal, Tex. Plow. No. 1,305,367; June 3; v. 263; p. 26.  
 Jackson, Clarence S., Brooklyn, N. Y. Closure for tubes. No. 1,314,065; Aug. 26; v. 265; p. 502.  
 Jackson, Clifton H., Clio, S. C. Ridger attachment for plows. No. 1,298,047; Mar. 25; v. 260; p. 532.  
 Jackson Company. (See Jackson, Maxey, assignor.)  
 Jackson Compressor Company, The. (See Jackson, Henry O., assignor.)  
 Jackson, David, Toronto, Ontario, Canada. Pipe-fitting. No. 1,307,551; June 24; v. 263; p. 528.  
 Jackson, Ed, Thurber, Tex. Manually-operated coal-mining machine. No. 1,309,477; July 8; v. 264; p. 299.  
 Jackson, Edgar A., Cupertino, Calif. Nursery-tree digger. No. 1,302,051; Apr. 29; v. 261; p. 855.  
 Jackson, Elva F. (See Egan and Jackson.)  
 Jackson Fence Company. (See Mills, Anson C., assignor.)  
 Jackson, George, assignor of one-half to C. G. McClay, Chicago, Ill. Position-bracket for sewing-machines. No. 1,303,904; May 20; v. 262; p. 332.  
 Jackson, George P., Guelph, Ontario, Canada. Track-torpedo. No. 1,303,673; May 13; v. 262; p. 251.  
 Jackson, George B., Guelph, Ontario, Canada. Torpedo-making machine. No. 1,308,361; July 1; v. 264; p. 64.  
 Jackson, George F. (See Lowerree and Jackson.)  
 Jackson, George W., Chicago, Ill., assignor, by mesne assignments to American Power Shovel Company, Milwaukee, Wis. Loading-machine. No. 1,313,217; Aug. 12; v. 265; p. 292.  
 Jackson, George W., Chicago, Ill., assignor, by mesne assignments to American Power Shovel Company, Milwaukee, Wis. Loading-machine. No. 1,313,218; Aug. 12; v. 265; p. 292.  
 Jackson, George W., Chicago, Ill., assignor, by mesne assignments to American Power Shovel Company, Milwaukee, Wis. Tractor. No. 1,313,219; Aug. 12; v. 265; p. 293.  
 Jackson, George W., Chicago, Ill., assignor, by mesne assignments to American Power Shovel Company, Milwaukee, Wis. Bucket structure for excavating and like machines. No. 1,313,220; Aug. 12; v. 265; p. 295.  
 Jackson, George W., Chicago, Ill., assignor, by mesne assignments to American Power Shovel Company, Milwaukee, Wis. Boom and bucket control for loading and excavating machines. No. 1,313,221; Aug. 12; v. 265; p. 293.  
 Jackson, George W., Chicago, Ill., assignor, by mesne assignments to American Power Shovel Company, Milwaukee, Wis. Loading-machine. No. 1,313,695; Aug. 19; v. 265; p. 398.  
 Jackson, Harry A., Newark, N. J. Combined coal and gas grate. No. 1,320,761; Nov. 4; v. 263; p. 75.  
 Jackson, Harry B., Sharpsburg, Pa. Emergency coupling-link. No. 1,290,209; Jan. 7; v. 258; p. 47.  
 Jackson, Henry. (See Hodges and Jackson, assignors.)  
 Jackson, Henry O., assignor to The Jackson Compressor Company, Denver, Colo. Check-valve. No. 1,297,296; Mar. 11; v. 260; p. 368.  
 Jackson, Hugh H., Los Angeles, assignor to West Highlands Citrus Association, West Highlands, Cal. Fruit-separator. No. 1,295,172; Feb. 25; v. 259; p. 600.  
 Jackson, James, London, Ontario, Canada. Child's vehicle. No. 1,312,444; Aug. 5; v. 265; p. 111.  
 Jackson, James, London, Ontario, Canada. Automatic baby-carriage runner. No. 1,317,083; Sept. 23; v. 266; p. 553.  
 Jackson, James C. (See Smith, George P., assignor.)  
 Jackson, James D., Sydney, New South Wales, Australia. Oven principally for domestic purposes. No. 1,314,520; Sept. 2; v. 266; p. 8.  
 Jackson, James R., Oakland, assignor of one-half to R. Mauvais, San Francisco, Calif. Scale-poise. No. 1,307,818; June 24; v. 263; p. 577.  
 Jackson, John, Portsmouth, Ohio. Cannon. No. 1,306,012; June 10; v. 263; p. 178.  
 Jackson, John L., River Forest, Ill. Indicator for pneumatic tires. No. 1,311,898; Aug. 5; v. 265; p. 9.  
 Jackson, John M. (See Lyons, Lark L., assignor.)  
 Jackson, John T. and S. Toronto, Ontario, Canada. Brick and stone press. No. 1,320,471; Nov. 4; v. 268; p. 21.  
 Jackson, John W., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Clutch-pulley. No. 1,302,926; May 6; v. 262; p. 85.  
 Jackson, Joseph G., assignor to Edward Katzinger Company, Chicago, Ill. Baking-pan. No. 1,302,661; May 6; v. 262; p. 34.  
 Jackson, Joseph G., assignor to Edward Katzinger Company, Chicago, Ill. Baking-pan. No. 1,302,662; May 6; v. 262; p. 34.  
 Jackson, Joseph G., assignor to Edward Katzinger Company, Chicago, Ill. Baking-pan. No. 1,302,663; May 6; v. 262; p. 34.  
 Jackson, Joseph G., assignor to Edward Katzinger Company, Chicago, Ill. Baking-pan. No. 1,302,664; May 6; v. 262; p. 34.  
 Jackson, Joseph R., Jr., Boston, Mass., assignor to A. B. See, Brooklyn, N. Y. Elevator. No. 1,291,530; Jan. 14; v. 258; p. 385.  
 Jackson, Louis L., assignor of one-half to O. C. Horney, New York, N. Y. Extracting metals from silicates. No. 1,305,969; June 3; v. 263; p. 140.  
 Jackson, Lucian C., Buffalo, N. Y. Internal-combustion engine. No. 1,314,487; Aug. 26; v. 265; p. 583.  
 Jackson, Lulu P. (See Jackson, Mary A. and L. P.)  
 Jackson Machine Tool Co. (See Higgins, Eugene, assignor.)  
 Jackson, Mark A., Audubon, N. J. Roof structure. No. 1,313,989; Aug. 26; v. 265; p. 488.  
 Jackson, Marshall H., Chicago, Ill. Seal. No. 1,306,905; June 17; v. 263; p. 377.  
 Jackson, Mary A. and L. P., Los Angeles, Calif. Pie-baker. No. 1,316,365; Sept. 16; v. 266; p. 370.  
 Jackson, Maxey, assignor to Jackson Company, Emmett, Idaho. Headlight mechanism. No. 1,315,555; Sept. 9; v. 266; p. 207.  
 Jackson, Perley D., Los Angeles, Cal. Railway-truck. No. 1,294,272; Feb. 11; v. 259; p. 334.  
 Jackson, Philip T., Toronto, Ontario, Canada. Fluid-control apparatus. No. 1,301,131; Apr. 22; v. 261; p. 646.  
 Jackson, Ralph M., La Habra, Calif. Removable cylinder-liner. No. 1,321,792; Nov. 11; v. 268; p. 334.  
 Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Rectifier. No. 1,298,726; Apr. 1; v. 261; p. 24.  
 Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vibrating rectifier. No. 1,298,727; Apr. 1; v. 261; p. 25.  
 Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,298,728; Apr. 1; v. 261; p. 25.  
 Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric insulator. No. 1,303,324; May 13; v. 262; p. 188.  
 Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Hardening synthetic resins. No. 1,323,284; Dec. 2; v. 269; p. 11.  
 Jackson, Reuben, Whitehough, Chinley, England. Cloth dyeing, bleaching, and like machines. No. 1,319,648; Oct. 21; v. 267; p. 466.  
 Jackson, Robert D., San Francisco, Calif. Pulp-classifier. No. 1,316,038; Sept. 16; v. 266; p. 309.  
 Jackson, Robert E., and B. O. Yearwood, Princeton, W. Va. Fuel-distributing apparatus. No. 1,300,272; Apr. 15; v. 261; p. 426.  
 Jackson, Robert E., and B. O. Yearwood, Princeton, W. Va. Mechanical stoker. No. 1,319,004; Oct. 14; v. 267; p. 318.  
 Jackson, Samuel. (See Jackson, John T. and S.)  
 Jackson, Simeon S., Boston, assignor to The Stafford Company, Readville, Mass. Weft-feeler mechanism for looms. No. 1,300,971; Apr. 15; v. 261; p. 575.  
 Jackson, Simeon S., Boston, assignor to The Stafford Company, Readville, Mass. Weft-feeler mechanism for looms. No. 1,301,082; Apr. 15; v. 261; p. 601.  
 Jackson, Simeon S., assignor to The Stafford Company, Boston, Mass. Bur-roll for loom-templates. No. 1,325,404; Dec. 16; v. 269; p. 517.  
 Jackson, Thomas. (See Revis, James, assignor.)  
 Jackson, Thomas J., Cincinnati, Ohio. Device for sealing fruit-jars. No. 1,320,863; Nov. 4; v. 268; p. 95.



## Alphabetical list of patentees—Continued.

- Jackson, Thomas T., Broadbottom, near Manchester, England. Loom for weaving. No. 1,316,159; Sept. 16; v. 266; p. 332.
- Jackson, William, New York, assignor to International Cork Company, Brooklyn, N. Y. Feeding attachment for crown-cork-making machines. No. 1,313,990; Aug. 26; v. 265; p. 488.
- Jackson, William G., Richmond, Calif. Sanitary drinking-fountain. No. 1,314,066; Aug. 26; v. 265; p. 502.
- Jackson, William H., Lockport, N. Y. Water-box for calendaring-machines. No. 1,301,703; Apr. 22; v. 261; p. 757.
- Jacob, Charles S., Elizabeth, N. J. Vehicle. No. 1,297,856; Mar. 18; v. 260; p. 516.
- Jacobs, Adolph R., Portland, Oreg. Shirt. No. 1,292,325; Jan. 21; v. 258; p. 610.
- Jacobs, Alexander L., St. Louis, Mo., assignor of one-fourth to A. J. Franke and one-fourth to L. N. Franke, St. Louis, Mo. Drying and shrinking device. No. 1,308,951; July 8; v. 264; p. 201.
- Jacobs, Arthur E., Cleveland, Ohio. Combined register and adding machine. No. 1,291,907; Jan. 21; v. 258; p. 507.
- Jacobs, Bert, Waterloo, Iowa. Robe-holder clamp. No. 1,300,273; Apr. 15; v. 261; p. 427.
- Jacobs, Charles B., Bloomfield, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated. Making nitrogen compound. No. 1,311,231; July 29; v. 264; p. 723.
- Jacobs, Charles B., Bloomfield, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated. Separation of cyanid compounds from other substances. No. 1,311,232; July 29; v. 264; p. 723.
- Jacobs, Charles B., Bloomfield, N. J., assignor, by mesne assignments, to Air Reduction Company, Incorporated. Production of alkali-metal cyanids. No. 1,324,119; Dec. 9; v. 269; p. 213.
- Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Electric switch mechanism. No. 1,297,174; Mar. 11; v. 260; p. 341.
- Jacobs, George A., Cleveland, Ohio. Spark-coil. No. 1,296,963; Mar. 11; v. 260; p. 296.
- Jacobs, Harry M., Schenectady, N. Y., assignor to General Electric Company. Emergency power equipment for alternating-current systems. No. 1,297,857; Mar. 18; v. 260; p. 516.
- Jacobs, Henry E., *et al.* (See Tibbetts, Fred O., assignor.)
- Jacobs, Homer B., and H. G. Kerchner, Sturgis, Mich. Sounding toy. No. 1,314,809; Sept. 2; v. 266; p. 63.
- Jacobs, Isidor M., Kansas City, and W. Cramer, assignors, by mesne assignments, to Truck, Tractor and Manufacturing Company, St. Louis, Mo. Radiator. No. 1,295,807; Feb. 18; v. 259; p. 494.
- Jacobs, Isidor M., Kansas City, and W. Cramer, St. Louis, assignors, by mesne assignments, to Truck, Tractor and Manufacturing Company, St. Louis, Mo. Means for converting steering means for motor vehicles into right or left hand drives. No. 1,299,348; Apr. 1; v. 261; p. 166.
- Jacobs, Isidor M., Kansas City, and W. Cramer, assignors, by mesne assignments, to Truck-tractor and Manufacturing Company, St. Louis, Mo. Support for crank-shafts. No. 1,299,950; Apr. 8; v. 261; p. 331.
- Jacobs, Isidor M., Kansas City, and W. Cramer, St. Louis, Mo., assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Radiator-cap. No. 1,314,521; Sept. 2; v. 266; p. 8.
- Jacobs, Isidor M., Kansas City, and W. Cramer, assignors, by mesne assignments, to Truck, Tractor and Manufacturing Company, St. Louis, Mo. Seat for motor-vehicles. No. 1,315,842; Sept. 9; v. 266; p. 258.
- Jacobs, Isidor M., Kansas City, and W. Cramer, St. Louis, Mo., assignors, by mesne assignments, to Truck Tractor and Manufacturing Company, St. Louis, Mo. Radiator. No. 1,319,871; Oct. 28; v. 267; p. 531.
- Jacobs, Isidor M., Kansas City, and W. Cramer, St. Louis, Mo., assignors, by mesne assignments, to Truck Tractor and Manufacturing Company, St. Louis, Mo. Support for engines in motor-vehicles. No. 1,320,009; Oct. 28; v. 267; p. 557.
- Jacobs, James M. H. (See Mongey and Jacobs.)
- Jacobs, Jesse P., Shelbyville, Tenn. Demountable-rim holder. No. 1,321,921; Nov. 18; v. 268; p. 409.
- Jacobs, Joseph H. (See Bailey and Jacobs.)
- Jacobs, Joseph H., Denver, Colo. Joint and locking means for stovepipes. No. 1,301,565; Apr. 22; v. 261; p. 730.
- Jacobs, Joseph H., Denver, Colo., assignor to The Jacobs Specialties Manufacturing Company. Adjustable handle for brooms. No. 1,301,564; Apr. 22; v. 261; p. 729.
- Jacobs, Joseph H., Denver, Colo., assignor to The Jacobs Specialties Manufacturing Company. Combination-press. No. 1,326,511; Dec. 30; v. 269; p. 777.
- Jacobs, Julian S., assignor to John T. Slack Corporation, Springfield, Vt. Device for feeding rags and the like. No. 1,300,840; Apr. 15; v. 261; p. 548.
- Jacobs, Louis, Stevens Point, Wis. Self-propelling cultivator. No. 1,322,306; Nov. 18; v. 268; p. 481.
- Jacobs, Samuel M., New York, N. Y. Cap for cigars. No. 1,294,107; Feb. 11; v. 259; p. 295.
- Jacobs Specialties Manufacturing Company, The. (See Bailey and Jacobs, assignors.)
- Jacobs Specialties Manufacturing Company, The. (See Jacobs, Joseph H., assignor.)
- Jacobs, Walter A., Mount Vernon, W. H. Brown, Flushing, M. Heidelberger and L. Pearce, assignors to The Rockefeller Institute for Medical Research, New York, N. Y. Arsenical compound. No. 1,315,127; Sept. 2; v. 266; p. 119.
- Jacobsen, Clara, administratrix. (See Sanne-Jacobsen, Soren.)
- Jacobsen, Emil. (See Martin and Jacobsen.)
- Jacobsen, James P. H. (See Weber, Leibing, and Jacobsen.)
- Jacobsen, Lars, Rileth, Sarsborg, Norway. Reversing and phase-changing power-transmitting mechanism. No. 1,316,242; Sept. 16; v. 266; p. 347.
- Jacobsen, Peter E. P., Jyderup, Denmark. Power-transmitting device. No. 1,307,976; June 24; v. 263; p. 606.
- Jacobsen, William H. (See Kline and Jacobsen.)
- Jacobsen, Allan F., New York, N. Y. Treating metals. No. 1,319,085; Oct. 21; v. 267; p. 358.
- Jacobsen, Arthur, and G. N. Garland, Milwaukee, Wis. Rope-splicing fid. No. 1,293,453; Feb. 4; v. 259; p. 112.
- Jacobsen, Edward, near Dogden, N. D. Buckle. No. 1,316,446; Sept. 16; v. 266; p. 386.
- Jacobsen, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Bushing-remover. No. 1,322,497; Nov. 18; v. 268; p. 518.
- Jacobsen, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,325,501; Dec. 16; v. 269; p. 534.
- Jacobsen, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,325,502; Dec. 16; v. 269; p. 534.
- Jacobsen, Eric A., Lindsay, Ontario, Canada. Thrust-bearing. No. 1,323,769; Dec. 2; v. 269; p. 102.
- Jacobsen, Gustave E. and J. L. Newark, N. J. Boiler. No. 1,326,198; Dec. 30; v. 269; p. 718.
- Jacobsen, Hugo W., Arlington, assignor to Gould & Eberhardt, Newark, N. J. Arbor-support. No. 1,304,684; May 27; v. 262; p. 518.
- Jacobsen, John L. (See Jacobson, Gustave E. and J. L.)
- Jacobsen, Leonard. (See Greiner and Jacobson.)
- Jacobson, Peter G., Chicago, Ill. Razor-blade holder. No. 1,318,278; Oct. 7; v. 267; p. 119.
- Jacobson, Peter G., Chicago, Ill. Razor-blade holder. No. 1,318,279; Oct. 7; v. 267; p. 119.
- Jacobson, Peter G., Chicago, Ill. Razor-blade holder. No. 1,318,280; Oct. 7; v. 267; p. 119.
- Jacobson, Sidney D., New York, N. Y. Means for inspecting the interior of gas-engines and the like. No. 1,292,326; Jan. 21; v. 258; p. 610.
- Jacobson, William S., Steel Head, British Columbia, Canada. Berry-pail. No. 1,307,256; June 17; v. 263; p. 441.
- Jacobson, William S., Steel Head, British Columbia, Canada. Saw-set. No. 1,326,735; Dec. 30; v. 269; p. 820.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler economizer and method of operating the same. No. 1,314,140; Aug. 26; v. 265; p. 516.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Means for supporting and holding furnace-walls in alignment. No. 1,315,021; Sept. 2; v. 266; p. 100.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Furnace-wall. No. 1,320,059; Oct. 28; v. 267; p. 566.
- Jacobus, David S., Jersey City, N. J., and W. A. Jones, West New Brighton, N. Y., assignors to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler economizer. No. 1,313,991; Aug. 26; v. 265; p. 488.
- Jacoby, Alfred J., Vancouver, British Columbia, Canada. Removable button. No. 1,318,082; Oct. 7; v. 267; p. 80.
- Jacoby, Benjamin. (See King, Johnson, and Jacoby.)
- Jacoviello, Felice, Milano, Italy. Electric furnace. No. 1,324,156; Dec. 9; v. 269; p. 220.
- Jacquain, Emile, and J. Kucharek, Brussels, Belgium. Elastic wheel. No. 1,323,060; Nov. 25; v. 268; p. 675.
- Jacquemin, Louis J., assignor to E. Rogers, Kennebunk, Me. Counter-blank-cutting machine. No. 1,315,367; Sept. 9; v. 266; p. 173.
- Jacques, George L., Neillsville, Wis. Rotary engine and pump. No. 1,307,631; June 24; v. 263; p. 542.
- Jacques, George L., Neillsville, Wis. Shock-absorber. No. 1,319,086; Oct. 21; v. 267; p. 358.
- Jacques, George L., Neillsville, Wis. Friction-gearing. No. 1,319,087; Oct. 21; v. 267; p. 359.
- Jacques, William E., Lakeland, Fla. Spark-plug. No. 1,318,761; Oct. 14; v. 267; p. 271.
- Jacquot, Andrew, Catlow, Oreg. Sled attachment for automobiles. No. 1,304,183; May 20; v. 262; p. 382.
- Jacquot, Andrew, Sandpoint, Idaho. Belt-lacing tool. No. 1,315,128; Sept. 2; v. 266; p. 119.
- Jacquot, Gaston L., assignor of one-half to W. A. C. Ochs, Ivanhoe, Minn. Exercising apparatus. No. 1,290,562; Jan. 7; v. 258; p. 132.
- Jacucis, Janas, East Chicago, Ind. Stove. No. 1,311,697; July 29; v. 264; p. 810.
- Jaeger, Anton P., assignor, by mesne assignments, to Titan Co. A/S., Christiania, Norway. Manufacture of white pigments. No. 1,317,164; Sept. 30; v. 266; p. 605.



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- Jaeger, Anton P., Brooklyn, N. Y., assignor, by mesne assignments, to Titan Co. A/S., Christiania, Norway, Titanium pigment and making same. No. 1,317,165; Sept. 30; v. 266; p. 605.
- Jaeger, Friedeman R., Oak Park, Ill. Clutch. No. 1,300,398; Apr. 15; v. 261; p. 454.
- Jaeger, Friedeman R., Oak Park, Ill. Timing mechanism. No. 1,310,702; July 22; v. 264; p. 592.
- Jaeger, Gebhard, Columbus, Ohio. Drum for concrete-mixers. No. 1,322,575; Nov. 25; v. 268; p. 584.
- Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Dispensing device. No. 1,298,048; Mar. 25; v. 260; p. 582.
- Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Dispensing device. No. 1,302,052; Apr. 29; v. 261; p. 855.
- Jaeger, Otto, Elkins Park, assignor to Industrial Service Company, Philadelphia, Pa. Dispensing apparatus. No. 1,307,444; June 24; v. 263; p. 509.
- Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Vending-machine. No. 1,322,307; Nov. 18; v. 268; p. 481.
- Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Vending-machine. No. 1,322,449; Nov. 18; v. 268; p. 508.
- Jaeger, Otto, Elkins Park, Pa., assignor to H. S. Kelsey, Boston, Mass. Coin-controlled mechanism. No. 1,322,450; Nov. 18; v. 268; p. 509.
- Jaeger, William J. (See Schlesinger, Henry, assignor.)
- Jaffe, Harry, Chicago, Ill. Radiator for internal-combustion engines. No. 1,310,416; July 22; v. 264; p. 540.
- Jagar, Carl, New Rochelle, N. Y. Sliding caster. No. 1,294,273; Feb. 11; v. 259; p. 334.
- Jagdman, Karl E. W., Stockholm, Sweden. Building-block. No. 1,306,962; June 17; v. 263; p. 388.
- Jagerspacher, Carl, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs dyeing on mordants and making same. No. 1,323,285; Dec. 2; v. 269; p. 12.
- Jaklich, Ivan, Gary, Ind. Table-caster. No. 1,293,788; Feb. 11; v. 259; p. 220.
- Jaklich, Ivan, Gary, Ind. Bed-seat. No. 1,305,368; June 3; v. 263; p. 26.
- Jakobson, Thomas T., Los Angeles, Calif. Music-leaf turner. No. 1,311,123; July 22; v. 264; p. 670.
- Jakobsson, Herman, Philadelphia, Pa. Cartridge-case extractor for guns. No. 1,290,835; Jan. 7; v. 258; p. 197.
- Jakobsson, Herman, Philadelphia, Pa. Continuous-pull firing mechanism for guns. No. 1,293,103; Feb. 4; v. 259; p. 31.
- Jakobsson, Herman, Philadelphia, Pa. Control mechanism for firing guns. No. 1,293,104; Feb. 4; v. 259; p. 31.
- Jakushow, Mitrophan N., Akron, Ohio. Toy. No. 1,319,649; Oct. 21; v. 267; p. 466.
- Jamerson, Lyburn P., Atlanta, Ga. Gun. No. 1,320,233; Oct. 28; v. 267; p. 598.
- James, Albert, Eureka, Calif. Submarine tractor. No. 1,301,560; Apr. 22; v. 261; p. 730.
- James Archdale & Company. (See Coxon, Fred, assignor.)
- James, Charles, Youngstown, Ohio. Locomotive driving-box. No. 1,292,791; Jan. 28; v. 258; p. 742.
- James, Charles E., Cairo, Iowa. Spring-hub. No. 1,324,596; Dec. 9; v. 269; p. 305.
- James, David A., New York, and R. Raines, East Williamsbridge, N. Y. Automatic-feed electric soldering-iron. No. 1,316,617; Sept. 23; v. 266; p. 467.
- James, Don W., Oregon City, Ore. Skirt-marker. No. 1,321,375; Nov. 11; v. 268; p. 256.
- James, Edward, Lakewood, Ohio. Manufacture of flexible metal tubing. No. 1,303,674; May 13; v. 262; p. 251.
- James, George I. (See Bennett, Frederick M., assignor.)
- James, George R., Hickman Mills, Mo. Milk-strainer. No. 1,313,992; Aug. 26; v. 265; p. 488.
- James, George S., Birmingham, England. Manufacture of seat-pillar stays and chain-stays of cycle-frames. No. 1,308,591; July 1; v. 264; p. 106.
- James H. Boye Manufacturing Company. (See Boye, James H., assignor.)
- James H. Channon Mfg. Co. (See Morris, Elzy V., assignor.)
- James H. Herron Company, The. (See Weidenthal, Harold G., assignor.)
- James, Harry, Denver, Colo. Pole-anchoring base. No. 1,290,563; Jan. 7; v. 258; p. 133.
- James, Harry E., St. Paul, Minn. Store-front construction. No. 1,320,864; Nov. 4; v. 268; p. 95.
- James Heddon's Sons Incorporated. (See Dills, Henry S., assignor.)
- James, Hugh, Montrose, Ill. Spark-intensifier. No. 1,303,325; May 13; v. 262; p. 188.
- James, Jesse E., and A. W. Adams, Alameda, Cal. Vulcanizing apparatus. No. 1,296,291; Mar. 4; v. 260; p. 108.
- James L. Howard & Company. (See Howard, Frank E., assignor.)
- James L. Taylor Manufacturing Co., The. (See Taylor, James L., assignor.)
- James Manufacturing Company. (See James, William D., assignor.)
- James Manufacturing Company. (See Shodron, John G., assignor.)
- James, Perry C., Sciota, Ill. Fencepost-clamp. No. 1,316,096; Sept. 16; v. 266; p. 320.
- James, Perry C., Sciota, Ill. Wagon end-gate. No. 1,320,146; Oct. 28; v. 267; p. 582.
- James, Perry C., Macomb, Ill. Hog-oiler. No. 1,316,097; Sept. 16; v. 266; p. 320.
- James Pott & Co. (See Reuter, Frederick, assignor.)
- James, Richard H. (See Adderson, James, and Cake.)
- James, Samuel C., et al. (See Northall, William H., assignor.)
- James Stewart & Company et al. (See Budd, Thomas D., assignor.)
- James, Thomas S., E. H. Parry, and T. H. Wilson, London, England. Construction of internal-combustion engines. No. 1,291,531; Jan. 14; v. 258; p. 385.
- James, Walter, Cairo, Iowa. Air-cooling system for internal-combustion engines. No. 1,315,843; Sept. 9; v. 266; p. 259.
- James, Will C., assignor to The Kamper-Thomas Company, Norwood, Ohio. Calendar. No. 1,316,039; Sept. 16; v. 266; p. 309.
- James, William D., assignor to James Manufacturing Company, Fort Atkinson, Wis. Guard for plgs. No. 1,307,862; June 24; v. 263; p. 585.
- James, William H., Philadelphia, Pa. Wheel attachment. No. 1,298,952; Apr. 1; v. 261; p. 77.
- Jameson, Charles V., Chicago, Ill. Take-up spool for music-sheets. No. 1,307,257; June 17; v. 263; p. 441.
- Jameson, Clarence W. (See Thompson and Jameson.)
- Jameson, George P., assignor to The Thomas P. Taylor Co., Bridgeport, Conn. Child's and miss's waist. No. 1,309,138; July 8; v. 264; p. 237.
- Jameson, Thomas J., Florin, Cal. Tire. No. 1,294,108; Feb. 11; v. 259; p. 295.
- Jameson, William, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Feeding mechanism for mixing-mills. No. 1,302,053; Apr. 29; v. 261; p. 855.
- Jameson, Winthrop M. (See Toftas, Julius, assignor.)
- Jamesstown Car Parts Manufacturing Company. (See Ellison, Edward H., assignor.)
- Jamieson, Robert, assignor to Draper Corporation, Hopedale, Mass. Loom-seat. No. 1,312,251; Aug. 5; v. 265; p. 74.
- Jamison, William J., Chicago, Ill. Fish-bait. No. 1,316,040; Sept. 16; v. 266; p. 309.
- Janczyk, Jakob, deceased, Jackson, Mich.; P. Tomasiak, administrator. Foldable carrying-chain. No. 1,302,927; May 6; v. 262; p. 85.
- Jander, Henry, Brooklyn, N. Y. Apparatus for the fractional distillation of sulphuric acid and other liquids. No. 1,321,210; Nov. 11; v. 268; p. 224.
- Jander, Henry, Brooklyn, N. Y. Apparatus for the recovery of arsenious and selenious oxides. No. 1,321,211; Nov. 11; v. 268; p. 224.
- Jandron, Wilfred J., St. Paul, Minn. Coin-operated vending-machine. No. 1,299,835; Apr. 8; v. 261; p. 306.
- Janecek, Adolf J., Elv, Iowa. Spark-plug protector. No. 1,316,098; Sept. 16; v. 266; p. 320.
- Janes, Clarence, Oneida, N. Y. Projectile. No. 1,305,216; May 27; v. 262; p. 617.
- Janes, Clyde M., assignor of one-half to F. M. Aurele, Pawtucket, R. I. Conductor for combers. No. 1,269,349; Apr. 1; v. 261; p. 166.
- Janes, Edwin H., Cleveland Heights, Ohio. Wheel. No. 1,309,094; July 8; v. 264; p. 229.
- Janes, Edwin H., Cleveland Heights, Ohio. Wheel. No. 1,309,095; July 8; v. 264; p. 229.
- Janes, Harry C., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Heating-drum. No. 1,324,157; Dec. 9; v. 269; p. 220.
- Janes, Henry T., Abbott, Tex. Cotton-chopper. No. 1,303,798; May 13; v. 262; p. 274.
- Janes, Joseph, Cambridge, Mass., assignor to James Wood Carving Corporation, New York, N. Y. Wood-carving machine. No. 1,299,350; Apr. 1; v. 261; p. 167.
- James Wood Carving Corporation. (See Janes, Joseph, assignor.)
- Janesville Machine Company, The. (See Krotz, Alvaro S., assignor.)
- Janesville Products Company. (See Renson, Andrew, assignor.)
- Janiks, Gust D., Douglas, Ariz. Bitless bridle attachment. No. 1,293,454; Feb. 4; v. 259; p. 112.
- Janin, Albert S., assignor, by mesne assignments, to The Janin Co., Inc., New York, N. Y. Aeroplane structure. No. 1,312,910; Aug. 12; v. 265; p. 232.
- Janin Co., Inc., The. (See Janin, Albert S., assignor.)
- Janke, Henry P., Toledo, Ohio, assignor, by mesne assignments, to The Toledo Standard Commutator Company, Commutator manufacture. No. 1,325,325; Dec. 16; v. 269; p. 503.
- Jankiewicz, Michael, Elmhurst, N. Y. Nut-lock. No. 1,320,865; Nov. 4; v. 268; p. 95.
- Jankower, David, New York, N. Y. Jewel-bearing for scales. No. 1,290,564; Jan. 7; v. 258; p. 133.
- Jankower, David, New York, N. Y. Single-compound-key type-writer. No. 1,301,444; Apr. 22; v. 261; p. 707.
- Jann, John H., Chicago, Ill., assignor to Chicago Automatic Machine Company, Pump. No. 1,302,665; May 6; v. 262; p. 35.



## Alphabetical list of patentees—Continued.

- Janney, Reynold, New York, N. Y., assignor to The Waterbury Tool Company, Waterbury, Conn. Driving mechanism. No. 1,307,819; June 24; v. 263; p. 577.
- Janney, Robert E. L., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Coupling. No. 1,325,518; Dec. 23; v. 269; p. 555.
- Jano, Luigi, Turin, Italy. File. No. 1,316,898; Sept. 23; v. 266; p. 519.
- Janot, Louis, Vincennes, France, assignor to Compagnie Generale Des Etablissements Pathe Freres, Phonographe et Cinematographie, Paris, France. Cinematographic apparatus. No. 1,317,502; Sept. 30; v. 266; p. 669.
- Janowitz, George, *et al.* (See Burgert, Joseph, assignor.)
- Janowsky, Laszlo, Toronto, Ontario, Canada. Treating commercial calcium carbide. No. 1,308,243; July 1; v. 264; p. 43.
- Jansa, Anton, assignor of one-half to V. Peterca, Cleveland, Ohio. Wrench. No. 1,316,447; Sept. 16; v. 266; p. 386.
- Jansen, Bernard H., assignor to The Royal Brass Company, Cleveland, Ohio. Mixing-valve. No. 1,325,945; Dec. 23; v. 269; p. 634.
- Jansen, Bernhardt W., College Point, assignor to Traun Rubber Company, New York, N. Y. Surgical bandage. No. 1,303,903; May 20; v. 262; p. 332.
- Jansen, Charles H., Brooklyn, N. Y., assignor to Speed Key Manufacturing Company, Inc. Spring-key for type-writers. No. 1,293,105; Feb. 4; v. 259; p. 31.
- Jansen, Edward W. (See Clark, Jansen, and Gailor.)
- Jansen, Harry N., Newark, N. J. Releasing and loss-preventing means for cradle-packings. No. 1,299,951; Apr. 8; v. 261; p. 331.
- Jansen, Henry, Omaha, Nebr. Halter-releasing device. No. 1,309,034; July 8; v. 264; p. 218.
- Jansen, Jesse, Jr., assignor of one-half to Warner-Jansen Company, and one-half to C. A. Lisenby, Fresno, Calif. Controlling device for liquid-receptacles. No. 1,324,597; Dec. 9; v. 269; p. 305.
- Jansen, Victor, Los Angeles, Calif. Painter's stripping mechanism. No. 1,305,545; June 3; v. 263; p. 59.
- Jansen, Willem, J. Hzn., The Hague, Netherlands. Making boots, shoes, and the like. No. 1,303,065; May 6; v. 262; p. 111.
- Janssen, Henry, assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 1,325,946; Dec. 23; v. 269; p. 634.
- Janssen, Otto C., Delmar, Iowa. Tennis-net reel. No. 1,300,972; Apr. 15; v. 261; p. 575.
- Janszen, August W. (See Kubenka and Janszen.)
- Jantsch, Hugo, Detroit, Mich. Mottling-tool. No. 1,315,964; Sept. 16; v. 266; p. 296.
- Januchowsky, John, and H. Albert, St. Louis, Mo. Fan attachment. No. 1,295,510; Feb. 25; v. 259; p. 678.
- Japanese Tissue Mills. (See Winter, Courtney P., assignor.)
- Jappe, Kurt W., assignor to The Miller Rubber Company, Akron, Ohio. Tire fabric. No. 1,318,876; Oct. 14; v. 267; p. 293.
- Jaquemot, Eugene. (See Pattay and Jaquemot.)
- Jakes, Elise, Beverly Hills, Calif., assignor to J. West, Jamaica Plain, Mass. Glove-cleaning machine. No. 1,305,902; June 3; v. 263; p. 127.
- Jakes, Fernando O., Sr., assignor of one-half to The Central Tool Company, Providence, R. I. Micrometer-caliper-spindle lock. No. 1,306,906; June 17; v. 263; p. 377.
- Jakes, Fernando O., Jr., Providence, R. I. Spring-tension nut. No. 1,326,598; Dec. 30; v. 269; p. 794.
- Jakes, Fernando O., Jr., Providence, assignor to The Central Tool Company, Cranston, R. I. Gage. No. 1,292,792; Jan. 28; v. 258; p. 742.
- Jakes, Fernando O., Jr., Providence, assignor to The Central Tool Company, Cranston, R. I. Gage. No. 1,308,493; July 1; v. 264; p. 83.
- Jakes, Fernando O., Jr., Providence, assignor of one-half to H. C. Peckham, Cranston, R. I. Making cast-ellated nuts. No. 1,311,449; July 29; v. 264; p. 764.
- Jakes, Fernando O., Jr., Providence, assignor of one-half to H. C. Peckham, Cranston, and one-twentieth to C. H. Luther, Providence, R. I. Means for making castellated nuts. No. 1,314,668; Sept. 2; v. 266; p. 37.
- Jarboe, Fred, and R. G. Webster, Holtville, Calif. Water-tight head-gate. No. 1,320,472; Nov. 4; v. 268; p. 22.
- Jarchow, Benjamin S. M., South Chicago, Ill. Traffic-signal. No. 1,319,284; Oct. 21; v. 267; p. 397.
- Jardin, Albert A., Congress Park, assignor of one-half to J. McAndrew, Berwyn, Ill. Railway-switch. No. 1,295,755; Feb. 25; v. 259; p. 734.
- Jardin, Herbert A., *et al.* (See Dean, John D., assignor.)
- Jarman, George R., assignor of one-fourth to W. A. Matthews, one-fourth to T. R. Matthews, and one-fourth to L. A. Matthews, Baltimore, Md. Device for supplying steam and air to furnaces. No. 1,320,866; Nov. 4; v. 268; p. 96.
- Jarmin, James B., Spokane, Wash. Road-machine. No. 1,296,807; Mar. 11; v. 260; p. 259.
- Jarriel, Nathan B., Ochopee, Ga. Cultivator attachment for harrows. No. 1,301,268; Apr. 22; v. 261; p. 673.
- Jarvis, Charles A., East Baltic, assignor of one-half to A. A. MacDonald, Souris, Prince Edward Island, Canada. Receptacle-cleaner. No. 1,290,565; Jan. 7; v. 258; p. 133.
- Jarvis, Elwood H., San Francisco, Calif. Liquid-fuel burner. No. 1,325,095; Dec. 16; v. 269; p. 459.
- Jarvis, George A., Wellington, England. Manufacture of iron and steel. No. 1,303,799; May 13; v. 262; p. 274.
- Jarvis, Harold, Toronto, Ontario, Canada. Adjustable means for automatic controllers for gas water-heaters. No. 1,291,007; Jan. 14; v. 258; p. 263.
- Jarvis, Harold, Toronto, Ontario, Canada. Self-closing tap. No. 1,314,195; Aug. 26; v. 265; p. 527.
- Jarvis, Herbert C., Renton, assignor to Seattle Car and Foundry Co., Seattle, Wash. Coupling device for railway-cars. No. 1,293,455; Feb. 4; v. 259; p. 112.
- Jarvis, Herbert C., Renton, assignor to Pacific Car & Foundry Co., Seattle, Wash. Trailer-hitch for trucks. No. 1,322,112; Nov. 18; v. 268; p. 444.
- Jarvis, Oscar, Seattle, Wash. Lock-nut. No. 1,321,212; Nov. 11; v. 268; p. 224.
- Jasculca, Isadore, Milwaukee, Wis. Burglar-alarm. No. 1,311,233; July 29; v. 264; p. 723.
- Jasinski, Piotr, and J. Smogala, Welland, Ontario, Canada. Antisubmarine device. No. 1,322,576; Nov. 25; v. 268; p. 584.
- Jasinski, Piotr, assignor of one-half to W. Czerwinski, Welland, Ontario, Canada. Boat. No. 1,311,350; July 29; v. 264; p. 746.
- Jasper, Charles. (See Kovacs, Louis, assignor.)
- Jaszkowiak, Francis, Bismarck, N. D. Clutch. No. 1,322,793; Nov. 25; v. 268; p. 624.
- Jauch, Joseph, Los Angeles, Calif. Radiator. No. 1,319,285; Oct. 21; v. 267; p. 397.
- Jauregui, Gabino, Bridgeport, Conn. Ear-closing device. No. 1,296,964; Mar. 11; v. 260; p. 296.
- Jaworek, Engelbert, Crescent City, Calif. Window-screen. No. 1,323,061; Nov. 25; v. 268; p. 675.
- Jay, Edward G., Jr., Philadelphia, Pa., assignor to Warren Webster & Company, Camden, N. J. System of automatic water control. No. 1,302,928; May 6; v. 262; p. 85.
- Jay, James W., Baltimore, Md. Wiggling fish-lure. No. 1,297,354; Mar. 18; v. 260; p. 409.
- Jay, Webb, *et al.* (See Edwards, William A., assignor.)
- Jay, Webb, Chicago, Ill. Heating apparatus for carbureters. No. 1,291,532; Jan. 14; v. 258; p. 385.
- Jay, Webb, Chicago, Ill. Valve mechanism for vacuum feed devices. No. 1,293,789; Feb. 11; v. 259; p. 220.
- Jay, Webb, Chicago, Ill. Multiple-action vacuum feed device. No. 1,293,790; Feb. 11; v. 259; p. 221.
- Jay, Webb, Chicago, Ill. Vacuum fuel-feed device for internal-combustion engines. No. 1,295,036; Feb. 18; v. 259; p. 545.
- Jay, Webb, Chicago, Ill. Vacuum fuel-feed device. No. 1,296,524; Mar. 4; v. 260; p. 158.
- Jay, Webb, Chicago, Ill. Vacuum fuel-feed device. No. 1,308,848; July 8; v. 264; p. 182.
- Jay, Webb, Chicago, Ill. Indicator for fuel-tanks. No. 1,308,905; July 8; v. 264; p. 193.
- Jay, Webb, Chicago, Ill. Combined cooling and liquid-feed system. No. 1,309,985; July 15; v. 264; p. 431.
- Jay, Webb, Chicago, Ill. Combined carburetor and vacuum-feed device. No. 1,311,167; July 29; v. 264; p. 712.
- Jay, William H., Moberidge, S. D. Combination-lock. No. 1,313,536; August 19; v. 265; p. 368.
- Jayne, Irving, Edwall, Wash. Internal-combustion engine. No. 1,313,634; Aug. 19; v. 265; p. 387.
- Jaynes, William F., Evansville, Ind. Channel-cutter for sole-stitching machines. No. 1,301,269; Apr. 22; v. 261; p. 674.
- Jeannin, Harry W., Warren, Ohio. Alternating-current motor. No. 1,322,451; Nov. 18; v. 268; p. 509.
- Jeans, William F., Santa Rosa, Cal. Egg-turner. No. 1,297,175; Mar. 11; v. 260; p. 341.
- Jefferies, Ebenezer A. W., assignor to Jefferies-Norton Corporation, Worcester, Mass. Engine for low-temperature expansion. (Reissue.) No. 14,597; Feb. 25; v. 259; p. 753.
- Jefferies, Fredrick L., and W. Spain, Riverside, Ill., assignors to Corn Products Refining Company. Filling apparatus. No. 1,300,274; Apr. 15; v. 261; p. 427.
- Jefferies-Norton Corporation. (See Jefferies, Ebenezer A. W., assignor.) (Reissue.)
- Jefferies-Norton Corporation. (See Norton, Fred E., assignor.)
- Jeffers, Clarence E., assignor to H. Marmon, Indianapolis, Ind. Wind-shield joint. No. 1,291,533; Jan. 14; v. 258; p. 386.
- Jefferson, Daniel H., Los Angeles, assignor of one-half to F. E. Andrea, Alhambra, Calif. Gasifying apparatus. No. 1,300,170; Apr. 8; v. 261; p. 378.
- Jeffersonville Manufacturing Company. (See Myers, Perin J., assignor.)
- Jeffords, Samuel L., Canaveral, Fla. Bait-clip. No. 1,320,762; Nov. 4; v. 268; p. 76.
- Jeffrey Manufacturing Company, The. (See Bauroth, Walter J., assignor.)
- Jeffrey Manufacturing Company, The. (See Dellenbach, Charles G., assignor.)
- Jeffrey Manufacturing Company, The. (See Fisher, Dudley T., assignor.)
- Jeffrey Manufacturing Company, The. (See Jeffrey, Robert H., assignor.)



- Jeffrey Manufacturing Company, The. (See Hamilton, William E., assignor.)
- Jeffrey Manufacturing Company, The. (See Kienzle, Charles J., assignor.)
- Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
- Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)
- Jeffrey Manufacturing Company, The. (See Van Slyke, Frederick E., assignor.)
- Jeffrey Manufacturing Company, The. (See Wadsworth, Frank L. O., assignor.)
- Jeffrey, Robert H., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,313,993; Aug. 26; v. 265; p. 489.
- Jeffrey, Robert H., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining and loading machine. No. 1,322,113; Nov. 18; v. 268; p. 444.
- Jeffrey, Thomas. (See Spott and Jeffrey.)
- Jeffries, Isaac B., Llanelly, Wales. Air-tube for pneumatic tires and process of manufacturing the same. No. 1,309,687; July 15; v. 264; p. 376.
- Jeffries, Roy D., Granada, Minn. Dust-cap for hubs. No. 1,303,066; May 6; v. 262; p. 111.
- Jeffries, William J. (See Silver, Jesse W., assignor.)
- Jeffries, Zay, East Cleveland, assignor to The Aluminum Castings Company, Cleveland, Ohio. Metal-mold. No. 1,296,598; Mar. 4; v. 260; p. 175.
- Jelf, Calvin, Opdyke, Ill. Ball-bearing self-closing hinge. No. 1,324,505; Dec. 9; v. 269; p. 288.
- Jelsem, John M., Grand Rapids, Mich. Punch-press guard. No. 1,301,567; Apr. 22; v. 261; p. 730.
- Jemune, Harry *et al.* (See Gilbert, Arthur, assignor.)
- Jencick, Stephen, Minneapolis, Minn. Double-acting motor. No. 1,324,353; Dec. 9; v. 269; p. 258.
- Jencick, Stephen, assignor to G. A. Schanze, Minneapolis, Minn. Motor-indicating mechanism. No. 1,298,049; Mar. 25; v. 260; p. 582.
- Jencick, Stephen, assignor to G. A. Schanze, Cleveland, Ohio. Shaft-coupling. No. 1,325,247; Dec. 16; v. 269; p. 488.
- Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)
- Jendral, Jacob, Barnesboro, Pa. Rail-brake. No. 1,311,072; July 22; v. 264; p. 661.
- Jenes, Lee A., and J. W. Clement, Winnipeg, Manitoba, Canada. Signaling attachment to trains. No. 1,302,804; May 6; v. 262; p. 61.
- Jenkins, Alexander F., Boone, Md. Acetylene-generator. No. 1,292,327; Jan. 21; v. 258; p. 610.
- Jenkins, Alexander F., Baltimore, Md. Carbide-holder. No. 1,304,685; May 27; v. 262; p. 518.
- Jenkins, Alexander F., Baltimore, Md. Acetylene-generator. No. 1,304,686; May 27; v. 262; p. 518.
- Jenkins, Alexander F., Baltimore, Md. Acetylene-generator. No. 1,317,706; Oct. 7; v. 267; p. 9.
- Jenkins, Alexander F., Baltimore, Md. Oxycetylene cutting-torch. No. 1,318,386; Oct. 14; v. 267; p. 200.
- Jenkins, Anderson, Jacksonville, Fla. Ironing-cabinet. No. 1,298,216; Mar. 25; v. 260; p. 619.
- Jenkins, Arthur H. (See Reynolds and Jenkins.)
- Jenkins, Arthur L., Dousman, Wis. Vehicle-spring construction. No. 1,324,552; Dec. 9; v. 269; p. 297.
- Jenkins, Charles F., Washington, D. C. Repair device for pneumatic tires. No. 1,290,566; Jan. 7; v. 258; p. 133.
- Jenkins, Charles F., Washington, D. C. Device for accumulating wave-power. No. 1,294,808; Feb. 18; v. 259; p. 494.
- Jenkins, Charles F., Washington, D. C. Selective suppression of radiant rays. No. 1,302,802; May 6; v. 262; p. 61.
- Jenkins, Charles F., Washington, D. C. Picture-film reel. No. 1,302,803; May 6; v. 262; p. 61.
- Jenkins, Charles F., Washington, D. C. Motion-picture machine. No. 1,305,804; June 3; v. 263; p. 108.
- Jenkins, Charles F., Washington, D. C. Motion-picture shutter. No. 1,308,494; July 1; v. 264; p. 89.
- Jenkins, Charles F., Washington, D. C. Film-reel. No. 1,322,114; Nov. 18; v. 268; p. 444.
- Jenkins, Charles F., assignor to The Graphoscope Company, Washington, D. C. Picture-projecting machine. No. 1,302,800; May 6; v. 262; p. 60.
- Jenkins, Charles F., assignor to The Graphoscope Company, Washington, D. C. Motion-picture apparatus. No. 1,302,801; May 6; v. 262; p. 60.
- Jenkins, Charles F., assignor to The Graphoscope Company, Washington, D. C. Motion-picture-projecting apparatus. No. 1,311,073; July 22; v. 264; p. 661.
- Jenkins, Charles W. Ellerson, assignor of one-half to L. B. Hancock, Richmond, Va. Auxiliary air-supply device. No. 1,294,340; Feb. 11; v. 259; p. 349.
- Jenkins, Edward E., Louisville, Ill. Adjustable book and arm rest. No. 1,318,564; Oct. 14; v. 267; p. 234.
- Jenkins, Emanuel A. (See Neff and Jenkins.)
- Jenkins, George M. O., Paris, France, assignor to Western Electric Company, Incorporated, New York, N. Y. Intercommunicating set. No. 1,298,217; Mar. 25; v. 260; p. 619.
- Jenkins, Henry C., assignor to Newell & Neal, New York, N. Y. Periscope. No. 1,309,478; July 8; v. 264; p. 299.
- Jenkins Interlock Manufacturing Company. (See Holberg, Frank C., Jr., assignor.)
- Jenkins, John E. (See Richmond, Walter, assignor.)
- Jenkins, John J. (See Noxon, Franklin F., assignor.)
- Jenkins, Thomas B. (See Guental and Jenkins.)
- Jenkins, Ulysses S., Chicago, Ill. Apparatus for treating petroleum products. No. 1,321,749; Nov. 11; v. 268; p. 326.
- Jenkins Vulcan Spring Company. (See Guental and Jenkins, assignors.)
- Jenkins, W. W., *et al.* (See Leidecker, Helmoth M., assignor.)
- Jenkins, Walter S., Brooklyn, N. Y., assignor to Colgate & Co. Sheet-stretcher. No. 1,325,519; Dec. 23; v. 269; p. 555.
- Jenkins, Weston, Rome, assignor to Rome Iron Mills, Inc., New York, N. Y. Stay-bolt. No. 1,300,399; Apr. 15; v. 261; p. 454.
- Jenkins, William L., Jr. (See Jenkins, William L., Sr., and W. L., Jr.)
- Jenkins, William L. Sr., and W. L., Jr., Niles, Ohio. Doabler. No. 1,313,635; Aug. 19; v. 265; p. 387.
- Jenner, Horace W., Lawrenceville, Ill. Nut-lock. No. 1,308,285; July 1; v. 264; p. 51.
- Jenney, Charles D., Indianapolis, Ind. Shock-absorber. No. 1,291,908; Jan. 21; v. 258; p. 507.
- Jenney, Charles D., Indianapolis, Ind. Fuel-gage. No. 1,295,037; Feb. 18; v. 259; p. 545.
- Jenney, Charles D., Indianapolis, Ind. Spring controlling and cushioning means for motor-vehicles. No. 1,320,060; Oct. 28; v. 267; p. 566.
- Jenney, Charles D., Indianapolis, Ind. Shock-absorber for motor-vehicles. No. 1,322,021; Nov. 18; v. 268; p. 427.
- Jenney, Walter P., Washington, D. C. War vessel. No. 1,313,945; Aug. 26; v. 265; p. 479.
- Jenney, Walter P., Washington, D. C. Fin-guard for vessels. No. 1,313,946; Aug. 26; v. 265; p. 479.
- Jenning, David J., Cleveland, Ohio. Making paper receptacles. No. 1,300,973; Apr. 15; v. 261; p. 575.
- Jennings, Chester S., Wellesley Farms, assignor to The Lamson Company, Boston, Mass. Carrier-despatch system. No. 1,290,210; Jan. 7; v. 258; p. 47.
- Jennings, Aaron E., Owensboro, Ky. Tire-armor. No. 1,304,057; May 20; v. 262; p. 360.
- Jennings, Emerson P., Jr., Lehigh, Pa. Sheet-delivery device. No. 1,303,326; May 13; v. 262; p. 188.
- Jennings, Francis A., Harrow, England. Rotary internal-combustion engine. No. 1,311,401; July 29; v. 264; p. 755.
- Jennings, Ines W. (See Edwards, Albert J., assignor.)
- Jennings, Irving C., assignor to Nash Engineering Company, South Norwalk, Conn. Rotary compressor. No. 1,297,692; Mar. 18; v. 260; p. 481.
- Jennings, John T., Birmingham, England. Carburetor for internal-combustion engines. No. 1,299,952; Apr. 8; v. 261; p. 331.
- Jennings, Martin A., Glenvil, Nebr. Locking device for automobiles. No. 1,303,800; May 13; v. 262; p. 274.
- Jennings, Meredith H., Roanoke, Va. Dump-body for trucks and the like. No. 1,301,132; Apr. 22; v. 261; p. 646.
- Jennings, Oliver S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting device for electric motors. No. 1,315,965; Sept. 16; v. 266; p. 296.
- Jennings, Robert G., Elmira, N. Y. Yarn-cleaner. No. 1,301,133; Apr. 22; v. 261; p. 646.
- Jennings, Thomas F., Garfield, Utah. Flask. No. 1,322,022; Nov. 18; v. 268; p. 428.
- Jennings, Valerius T., Chicago, Ill. Portable electric lamp. No. 1,313,296; Aug. 19; v. 265; p. 323.
- Jennings, Victor H., Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I. Woven pocketed carrier and making the same. No. 1,293,791; Feb. 11; v. 259; p. 221.
- Jennison, Harry G., Toledo, Ohio. Wood pavement. No. 1,302,560; May 6; v. 262; p. 15.
- Jensen, Albert O., Omaha, Nebr. Combined wheel-coaster and sleigh. No. 1,298,729; Apr. 1; v. 261; p. 25.
- Jensen, Alexander V., Devils Slide, Utah, assignor to American Manganese Steel Company, Augusta, Me. Lining for tube-mills. No. 1,291,008; Jan. 14; v. 258; p. 263.
- Jensen, Chester P., Oak Park, Ill. Child's garment. No. 1,321,641; Nov. 11; v. 268; p. 306.
- Jensen, Emanuel, Frederiksberg, near Copenhagen, Denmark. Building-slab. No. 1,296,525; Mar. 4; v. 260; p. 159.
- Jensen, George C., Oakland, Cal. Device for locking levers. No. 1,290,751; Jan. 7; v. 258; p. 178.
- Jensen, George C., Oakland, Cal. Shifter-device locking and interlocking bolt. No. 1,290,752; Jan. 7; v. 258; p. 178.
- Jensen, George C., Oakland, Cal. Ship-lever-locking device. No. 1,292,328; Jan. 21; v. 258; p. 611.
- Jensen, George C., Oakland, Cal. Shifter-fork lock. No. 1,294,668; Feb. 18; v. 259; p. 462.
- Jensen, George C., Oakland, Cal. Compression-lock. No. 1,294,669; Feb. 18; v. 259; p. 462.
- Jensen, George C., Oakland, Cal. Transmission-shift-device retainer and lock. No. 1,296,397; Mar. 4; v. 260; p. 131.



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- Jensen, George C., Oakland, Cal. Bolt-operated locking device. No. 1,296,398; Mar. 4; v. 260; p. 131.
- Jensen, George C., Oakland, Cal. Vacuum-operating lock. No. 1,296,526; Mar. 4; v. 260; p. 159.
- Jensen, George C., Oakland, Calif. Lever-lock. No. 1,307,497; June 24; v. 263; p. 519.
- Jensen, George C., Oakland, Calif. Tire-carrier. No. 1,307,863; June 24; v. 263; p. 585.
- Jensen, George C., Oakland, Calif. Combined shift-lock and retainer. No. 1,309,852; July 15; v. 264; p. 406.
- Jensen, George C., Oakland, Calif. Shift-lock mechanism. No. 1,309,853; July 15; v. 264; p. 406.
- Jensen, George C., Oakland, Calif. Shifter-device control-lock and lock-operating means. No. 1,317,191; Sept. 30; v. 266; p. 610.
- Jensen, Ingeborg M., Chicago, Ill. Crochet-needle. No. 1,303,327; May 13; v. 262; p. 188.
- Jensen, James L., Cowley, Wyo. Demountable rim for automobile-wheels. No. 1,290,211; Jan. 7; v. 258; p. 47.
- Jensen, James P., Escanaba, Mich. Coaster-brake. No. 1,306,698; June 17; v. 263; p. 340.
- Jensen, John O., and J. Henle, assignors to J. O. Jensen Company, Inc., Geneva, N. Y. Glass-gathering machine and process. No. 1,304,568; May 27; v. 262; p. 496.
- Jensen, Jorgen T., Copenhagen, Denmark. Artificial arm and hand. No. 1,303,905; May 20; v. 262; p. 332.
- Jensen, Leslie, Albion, Iowa. Windmill control. No. 1,319,222; Oct. 21; v. 267; p. 385.
- Jensen, Niels C., Port Dodge, Iowa. Animal-spraying apparatus. No. 1,315,309; Sept. 9; v. 266; p. 163.
- Jensen, Olaf, Rjukan, Norway, assignor to Norsk Hydro-Elektrisk Kvaelfstoftaktieselskab, Christiania, Norway. Manufacturing concentrated nitrous gases. No. 1,291,909; Jan. 21; v. 258; p. 508.
- Jensen, Olaf, Notodden, assignor to Norsk Hydro-Elektrisk Kvaelfstoftaktieselskab, Christiania, Norway. Handling of nitroxyl sulfuric acid. No. 1,319,586; Oct. 21; v. 267; p. 454.
- Jensen, Olaf, assignor to Norsk Hydro-Elektrisk Kvaelfstoftaktieselskab, Christiania, Norway. Producing pure concentrated nitric acid and tetroxid of nitrogen. No. 1,324,255; Dec. 9; v. 269; p. 239.
- Jensen, Ole, Copenhagen, Denmark. Intestine-cleaner. No. 1,302,054; Apr. 29; v. 261; p. 855.
- Jensen, Oluf C., New York, N. Y. Automobile-horn. No. 1,318,673; Oct. 14; v. 267; p. 255.
- Jenson, Jean S., assignor of one-half to A. C. McWilliams, Chicago, Ill. Golf-bag support. No. 1,320,620; Nov. 4; v. 268; p. 49.
- Jenson, Joseph S., Norse, Tex. Gate. No. 1,322,190; Nov. 18; v. 268; p. 459.
- Jenson, Ole E., Roseberg, Alberta, Canada. Walking attachment for motor-vehicles. No. 1,298,953; Apr. 1; v. 261; p. 77.
- Jentz, Carl, Three Rivers, Quebec, Canada. Game apparatus. No. 1,302,805; May 6; v. 262; p. 61.
- Jepsson, George N., and C. F. Dietz, Worcester, Mass., assignors to Norton Company. Antislipping ceramic tile. No. 1,292,953; Jan. 28; v. 258; p. 780.
- Jepson, James, *et al.* (See Lamar, Alexis L., assignor.)
- Jepson, John W., New York, N. Y. System of electrical distribution. No. 1,296,292; Mar. 4; v. 260; p. 108.
- Jepson, John W., Buffalo, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,296,293; Mar. 4; v. 260; p. 108.
- Jerden, Walter, Midland, Tex. Apparatus for repairing automobile-radiators. No. 1,321,310; Nov. 11; v. 268; p. 244.
- Jeremiah, John, Merthyr Tydfil, England. Game register and timer. No. 1,315,728; Sept. 9; v. 266; p. 237.
- Jernberg, Magnus E., Cowdery, Manitoba, Canada. Cow-milker pump. No. 1,295,511; Feb. 25; v. 259; p. 679.
- Jernegan, Warren G., Chester, S. C. Post fence-fastener. No. 1,293,106; Feb. 4; v. 259; p. 31.
- Jerolaman, Henry F., Chicago, Ill. Mechanism for operating box-car doors. No. 1,301,445; Apr. 22; v. 261; p. 708.
- Jerolaman, Henry F., Chicago, Ill. Mechanism for operating freight-car doors. No. 1,312,180; Aug. 5; v. 265; p. 62.
- Jerome, Inez S., Chicago, Ill. Brassière. No. 1,306,595; June 10; v. 263; p. 287.
- Jerome, Joseph. (See Eberhardt, George O., assignor.)
- Jerome, Joseph, and G. O. Eberhardt, Battleriver, Minn. Knockdown hoisting-frame. No. 1,298,508; Mar. 25; v. 260; p. 681.
- Jerram, Arthur E., and F. B. Keall, Leicester, England, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,305,217; May 27; v. 262; p. 617.
- Jerrens, Thomas W., St. Paul, Minn., assignor of one-half to E. H. Steiger, Oshkosh, Wis. Grass-feeding mechanism for grass-twine machines. No. 1,298,730; Apr. 1; v. 261; p. 26.
- Jervis, George S., Copiague, N. Y. Seeder. No. 1,300,400. Apr. 15; v. 261; p. 454.
- Jeschke, Edward. (See Ebner and Jeschke.)
- Jespersen, Thomas, Neenah, Wis. Removing printers' ink from paper-stock. No. 1,311,563; July 29; v. 264; p. 786.
- Jespersen, Thomas, Neenah, Wis. Device for removing printers' ink from printed matter. No. 1,311,564; July 29; v. 264; p. 786.
- Jess, Edward A., Annapolis, Md. Automobile-wheel. No. 1,297,355; Mar. 18; v. 260; p. 409.
- Jessen, Hans II., East Hartford, Conn., assignor of two-thirds to J. C. Bigelow, Burnside, Conn. Weighing and recording device. No. 1,305,546; June 3; v. 263; p. 60.
- Jessen, James, Minneapolis, Minn. Internal-combustion motor. No. 1,294,274; Feb. 11; v. 259; p. 334.
- Jessen, James, assignor of one-half to J. A. McNulty, Minneapolis, Minn. Gas-engine. No. 1,325,295; Dec. 16; v. 269; p. 497.
- Jessop, Earl P., U. S. Navy, assignor to J-S Development Corporation, New York, N. Y. Quick-action relay and system for operating same. No. 1,323,286; Dec. 2; v. 269; p. 12.
- Jessop, Earle N. (See Zimmers, Jessop, Koenig, and Garner.)
- Jester Motor Lens Company. (See Jester, Ronald B., assignor.)
- Jester, Ronald B., New Cumberland, W. Va. Lifting-jack. No. 1,304,569; May 27; v. 262; p. 496.
- Jester, Ronald B., assignor to Jester Motor Lens Company, New Cumberland, W. Va. Refracting-lens for headlights. No. 1,290,567; Jan. 7; v. 258; p. 134.
- Jester, Ronald B., New Cumberland, assignor to H. A. Schnellbach, Follansbee, W. Va. Lifting-jack. No. 1,307,360; June 24; v. 263; p. 493.
- Jesup, Nelson R., Stamford, Conn., assignor to Merchants Profit Sharing Corporation, New York, N. Y. Commercial certificate. No. 1,311,698; July 29; v. 264; p. 810.
- Jeter, John T., Dallas, assignor to Vulcan Iron Works, Wilkes-Barre, Pa. Gear-ring for rotary kilns. No. 1,312,252; Aug. 5; v. 265; p. 75.
- Jetlund, Mathias, Seattle, Wash. Photographic-printing mask. No. 1,326,736; Dec. 30; v. 269; p. 820.
- Jevne, John O. (See Hart, Jevne, and Staff.)
- Jewell, Ariel C., Chicago, Ill. Still. No. 1,325,199; Dec. 16; v. 269; p. 479.
- Jewell, Ira H., Chicago, Ill. Apparatus for furnishing drinking-water on ocean-ships. No. 1,299,002; Apr. 1; v. 261; p. 89.
- Jewett, Arthur C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Shot-shell. No. 1,305,113; May 27; v. 262; p. 598.
- Jewett, Arthur C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Shot-shell. No. 1,305,114; May 27; v. 262; p. 598.
- Jewett, Arthur C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Shot-shell. No. 1,305,115; May 27; v. 262; p. 598.
- Jewett, Charles E., North Andover, and F. Fitzgerald, Lawrence, Mass. Stop-motion for combs. No. 1,299,187; Apr. 1; v. 261; p. 130.
- Jewett, John C. and W. A. San Francisco, Calif., assignors, by mesne assignments, of one-half to A. J. Bowie, Jr., and one-half to J. F. Barnett, Insect catching and killing device. No. 1,308,952; July 8; v. 264; p. 201.
- Jewett, Nora E. (See Scott, James H., assignor.)
- Jewett, Robert L., Guilford, Miss. Embroidery-needle. No. 1,324,598; Dec. 9; v. 269; p. 267.
- Jewett, Willard A. (See Jewett, John C. and W. A.)
- Jiardin, Ralph, Algiers, La.; J. (Giuseppe) Giardino, administrator. Bomb. No. 1,323,221; Nov. 25; v. 268; p. 706.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Crank-bearing for close-corner drills. No. 1,293,792; Feb. 11; v. 259; p. 221.
- Jillson, Harlan S., Turners Falls, and W. H. Sweeney, Greenfield, Mass.; said Jillson assignor to W. H. Sweeney, Greenfield, Mass. Jack. No. 1,326,451; Dec. 30; v. 269; p. 766.
- Joanise, Louis N., deceased, and W. C. MacMillan, Seattle, Wash.; M. E. Joanise, administratrix. Emergency car-coupling. No. 1,325,722; Dec. 23; v. 269; p. 593.
- Joanise, Mary E., administratrix. (See Joanise and MacMillan.)
- Job, Albert J. (See Higgs and Job.)
- Jobski, Otto H., administrator. (See Bryant, Richard S.)
- Jobski, Otto H., *et al.*, special administrators. (See Bryant, Richard S.)
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Demountable rim for vehicle-wheels. No. 1,298,050; Mar. 25; v. 260; p. 582.
- Jobski, Otto H., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Multiple spot-welding machine. No. 1,303,906; May 20; v. 262; p. 332.
- Jobst, Conrad, assignor to The Ames-Bonner Company, Toledo, Ohio. Brush-making machine. No. 1,303,907; May 20; v. 262; p. 332.
- Jockmus, Charles H., Ansonia, Conn. Forged blank for fuse-bodies. No. 1,295,512; Feb. 25; v. 259; p. 679.
- Jockmus, Charles H., Ansonia, Conn. Percussion-shell fuse. No. 1,309,479; July 8; v. 264; p. 299.
- Jockmus, Charles H., Ansonia, Conn. Splash-feed oil-cup. No. 1,313,385; Aug. 19; v. 265; p. 340.



- Jockmus, Charles H., Ansonia, Conn. Compression-oiler. No. 1,325,248; Dec. 16; v. 269; p. 488.
- Joehneck, Detlef L., Rocky Ford, Colo. Conveyer and separator. No. 1,297,176; Mar. 11; v. 260; p. 342.
- Joerger, Frank, Weingarten, Mo. Broom-corn cleaner. No. 1,311,074; July 22; v. 264; p. 662.
- Joerin, Albert E. (See Joerin, Charles, Jr., and A. E.)
- Joerin, Charles, Jr., and A. E., Detroit, Mich. Water heater and filter. No. 1,309,892; July 15; v. 264; p. 414.
- Joest, Anders J., and P. Hansen, Randers, Denmark. Device at rail-points. No. 1,306,305; June 10; v. 263; p. 234.
- Joffe, Philip, New York, N. Y. Toy propeller-top. No. 1,292,793; Jan. 28; v. 258; p. 742.
- Joffrion, Abraham, Los Angeles, Calif. Automobile-signal. No. 1,305,369; June 3; v. 263; p. 26.
- Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Electricity transforming and converting apparatus. No. 1,294,109; Feb. 11; v. 259; p. 295.
- Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Stationary induction apparatus. No. 1,299,953; Apr. 8; v. 261; p. 332.
- Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Transformer. No. 1,304,184; May 20; v. 262; p. 383.
- Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Transformer. No. 1,323,770; Dec. 2; v. 269; p. 102.
- Johannesmeyer, Charles G., Glendale, Ohio. Planer feed device. No. 1,303,675; May 13; v. 262; p. 251.
- Johannsen, William A., Paulina, Iowa. Attachment for ribbon-rolls. No. 1,300,974; Apr. 15; v. 261; p. 576.
- Johansen, Oskar. (See Petersen and Johansen.)
- Johanson, Carl S., Montclair, N. J. Extension-window. No. 1,310,797; July 22; v. 264; p. 611.
- Johanson, Emil G., Chicago, Ill. Glass-molding apparatus. No. 1,297,566; Mar. 18; v. 260; p. 453.
- Johanson, Emil G., Chicago, Ill. Power-transmission mechanism. No. 1,310,530; July 22; v. 264; p. 560.
- Johanson, Emil G., Chicago, Ill. Compression rotary engine. No. 1,316,957; Sept. 23; v. 266; p. 529.
- Johanson, Emil G., Chicago, Ill., assignor to The Norling Rotary Engine Company, Pierre, S. D. Variable-speed gearing. No. 1,294,394; Feb. 18; v. 259; p. 397.
- Johanson, Emil G., Chicago, Ill., assignor to The Norling Rotary Engine Company, Pierre, S. D. Internal-combustion engine. No. 1,306,699; June 17; v. 263; p. 340.
- Johanson, Emil G., assignor to J. T. Isackson, Chicago, Ill. Change-making machine. No. 1,318,762; Oct. 14; v. 267; p. 271.
- Johansson, Carl E., assignor to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Internal gage. No. 1,300,841; Apr. 15; v. 261; p. 548.
- Johansson, Gustaf W., Södertelje, assignor to Aktiebolaget Baltic, Stockholm, Sweden. Cream-separator. No. 1,296,399; Mar. 4; v. 260; p. 132.
- Johansson, Johan P., Fannalund, Enköpings, Sweden. Cam-wheel transmission. No. 1,312,328; Aug. 5; v. 265; p. 88.
- Johantgen, Oliver D., Chicago, Ill. Register mechanism for computing-machines. No. 1,301,943; Apr. 29; v. 261; p. 834.
- Johantgen, Oliver D., assignor, by mesne assignments, to Victor Adding Machine Co., Chicago, Ill. Ten-key adding and listing machine. No. 1,301,941; Apr. 29; v. 261; p. 834.
- Johantgen, Oliver D., assignor, by mesne assignments, to Victor Adding Machine Co., Chicago, Ill. Carriage mechanism for computing-machines. No. 1,301,942; Apr. 29; v. 261; p. 834.
- Johantgen, Oliver D., assignor, by mesne assignments, to The Victor Adding Machine Company, Chicago, Ill. Adding-machine. No. 1,306,112; June 10; v. 263; p. 196.
- John, Arthur A., Lyndhurst, N. J., assignor to Underwood Typewriter Company, New York, N. J. Type-writing machine. No. 1,319,341; Oct. 21; v. 267; p. 407.
- John B. Adt Company. (See Adt, John B., assignor.)
- John Bromley & Sons. (See Grundy, James A., assignor.)
- John C. Fredricksen Manufacturing Co. (See Fredricksen, John C., assignor.)
- John C. Moninger Company. (See Guion, Chester P., assignor.)
- John C. Turner Co., The. (See Turner, John C., assignor.)
- John C. Turner Novelty Co., The. (See Turner, John C., assignor.)
- John C. Turner Novelty Company. (See Turner, John C., assignor.)
- John Chatillon & Sons. (See Chatillon, Ralph F., assignor.)
- John Church Company, The. (See Lee and Rose, assignors.)
- John Douglas Company, The. (See McNeill, Daniel W., assignor.)
- John, Edmund T. (See Dobbs and John.)
- John Ford Starter Company, The. (See Davis, Thomas, assignor.)
- John Ford Starter Company, The. (See Eidson, Davis, and Crouse, assignors.)
- John, Frank J., Cedar Rapids, Iowa. Hand-harrow. No. 1,304,058; May 20; v. 262; p. 360.
- John, Griffith, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety device for conveyers. No. 1,300,401; Apr. 15; v. 261; p. 454.
- John I. Thornycroft & Co. (See Thornycroft, Tom, assignor.)
- John I. Thornycroft & Company, Limited. (See Donaldson and Mackie, assignors.)
- John J. Griffin & Sons. (See McAlpine, George L., assignor.)
- John J. McCann Company. (See McCann, John J., assignor.)
- John and James Dobson. (See Kremers, Peter P. C., assignor.)
- John Lauson Manufacturing Company. (See Edens, Henry N., assignor.)
- John Simmons Company. (See Cater, William B., assignor.)
- John Simmons Company. (See Rothchild, Joseph, assignor.)
- John Stanley Lock Company. (See Stanley, John, assignor.)
- John T. Slack Corporation. (See Jacobs, Julian S., assignor.)
- John W. Brown Manufacturing Company, The. (See Brown, John W., assignor.)
- John Wanamaker, Philadelphia. (See Tily and Rehfuss, assignors.)
- John, Wesley E., Richmond, Eng. Explosive-turbine. No. 1,306,113; June 10; v. 263; p. 196.
- John, William, Morriston, Swansea, Wales. Furnace for annealing metal plates. No. 1,310,911; July 22; v. 264; p. 631.
- John Wright and Eagle Range Limited. (See Yates and Heggie, assignors.)
- Johns, George M., St. Louis, and J. B. Trescott, Midland Heights, assignors to Killark Electric Manufacturing Company, St. Louis, Mo. Inclosed fuse. No. 1,296,808; Mar. 11; v. 260; p. 259.
- Johns, John D. (See Johns, William A., assignor.)
- Johns, Paul H., assignor of one-fourth to F. Johnson, one-fourth to A. W. Cowles, Utica, and one-fourth to E. W. Morgan, Winona, Minn. Manure-loader. No. 1,313,297; Aug. 19; v. 265; p. 324.
- Johns-Pratt Company, The. (See Cole, Robert C., assignor.)
- Johns-Pratt Company, The. (See Hooker, Duncan C., assignor.)
- Johns, Robert I., Brooklyn, N. Y. Portable house. No. 1,296,084; Mar. 4; v. 260; p. 61.
- Johns, Thomas W., Floral Park, N. Y. Type-slug-casting mechanism. No. 1,318,877; Oct. 14; v. 267; p. 293.
- Johns, Thomas W., Brooklyn, N. Y. Typographical machine. No. 1,318,878; Oct. 14; v. 267; p. 294.
- Johns, Thomas W., assignor to Intertype Corporation, Brooklyn, N. Y. Typographical machine. No. 1,290,212; Jan. 7; v. 258; p. 48.
- Johns, William A., assignor of one-half to J. D. Johns, East St. Louis, Ill. Hammer-fastener. No. 1,318,231; Oct. 7; v. 267; p. 119.
- Johns, William D., Seattle, Wash. Vaporizer. No. 1,293,456; Feb. 4; v. 259; p. 112.
- Johnsen, Clement F., Phoenix, Ariz. Cotton-picker. No. 1,295,323; Feb. 25; v. 259; p. 634.
- Johnsen, Gustav A., Emerson, Nebr. Horse-collar. No. 1,298,732; Apr. 1; v. 261; p. 26.
- Johnsboy, Joseph W., Tracy, Minn. Clothes-hanging-device. No. 1,298,954; Apr. 1; v. 261; p. 78.
- Johnson Acetylene Gas Company. (See Ruckman, Floyd A., assignor.)
- Johnson, Adler G., Fort Scott, Kans. Button. No. 1,308,079; July 1; v. 264; p. 14.
- Johnson, Adolph, Battle Creek, Mich. Rotary oven and drier. No. 1,298,955; Apr. 1; v. 261; p. 78.
- Johnson, Adolph B., Los Angeles, Calif. Nut and bolt lock. No. 1,324,012; Dec. 2; v. 269; p. 148.
- Johnson, Albert B., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on soles. No. 1,307,820; June 24; v. 263; p. 577.
- Johnson, Albert M., et al. (See Smith, Glenn R., assignor.)
- Johnson, Albert S., Washington, D. C. Luminous jewelry. No. 1,301,568; Apr. 22; v. 261; p. 730.
- Johnson, Albert T., Stratford, Conn. Cap-strap. No. 1,311,075; July 22; v. 264; p. 662.
- Johnson, Albin J., Duluth, Minn. Lock. No. 1,306,819; June 17; v. 263; p. 361.
- Johnson, Alfred, Shevlin, Minn. Wire-stretcher. No. 1,303,067; May 6; v. 262; p. 111.
- Johnson, Alfred, Grafton, N. D. Locomotive attachment. No. 1,324,158; Dec. 9; v. 269; p. 220.
- Johnson, Alfred, A. C. Swanson, and A. H. Utterberg, Chicago, Ill. Automatic playing attachment for pianos. No. 1,307,052; June 17; v. 263; p. 405.
- Johnson, Alfred C., Winters, assignor to Yuba Manufacturing Company, San Francisco, Calif. Tractor. No. 1,299,351; Apr. 1; v. 261; p. 167.



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- Johnson, Alfred E., Denver, Colo. Transmission mechanism. No. 1,304,484; May 20; v. 262; p. 441.
- Johnson, Alfred E., Racine, Wis. Airplane. No. 1,311,076; July 22; v. 264; p. 662.
- Johnson, Alton F., Chicago, Ill. Coat-hanger. No. 1,316,618; Sept. 23; v. 266; p. 467.
- Johnson, Alvin L. (See Peters and Johnson.)
- Johnson, Alvin L., Worcester, Mass. Air-bag for tire-repairing. No. 1,319,088; Oct. 21; v. 267; p. 359.
- Johnson, Amasa M., New York, N. Y. Secret-door latch and lock. No. 1,316,448; Sept. 16; v. 266; p. 386.
- Johnson, Andrew, Haskell, N. J. Projectile. No. 1,311,521; July 29; v. 264; p. 778.
- Johnson, Andrew G., Stillman Valley, Ill. Map-box and map. No. 1,312,445; Aug. 5; v. 265; p. 111.
- Johnson, Andrew J., Green Bay, Wis. Lantern. No. 1,309,893; July 15; v. 264; p. 414.
- Johnson, Arthur A. (See Stickney and Johnson.)
- Johnson, Arthur A., Lyndhurst, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,302,169; Apr. 29; v. 261; p. 876.
- Johnson, Arthur A., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,304,570; May 27; v. 262; p. 535.
- Johnson, Arthur A., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,304,776; May 27; v. 262; p. 535.
- Johnson, Arthur A., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,309,854; July 15; v. 264; p. 406.
- Johnson, Arthur A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,323,287; Dec. 2; v. 269; p. 12.
- Johnson, Arthur C. (See Nowburg, Carl O., assignor.)
- Johnson, Austin C., assignor, by mesne assignments, to Production Meter Company, Chicago, Ill. Machine-recorder. No. 1,323,062; Nov. 25; v. 268; p. 675.
- Johnson Automatic Sealer Company. (See Bevier, Henry R., assignor.)
- Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
- Johnson, Axel, Oakland, Calif. Cooker. No. 1,302,170; Apr. 29; v. 261; p. 876.
- Johnson, Axel, Oakland, Calif. Cooker. No. 1,302,171; Apr. 29; v. 261; p. 876.
- Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Apparatus for applying ring-liners to can ends. No. 1,299,188; Apr. 1; v. 261; p. 131.
- Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Apparatus for double seaming covers to can-bodies. No. 1,317,977; Oct. 7; v. 267; p. 60.
- Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Sanitary can-end seal. No. 1,323,596; Dec. 2; v. 269; p. 70.
- Johnson, Axel A. L., Jamestown, N. Y. Gear and axle housing. No. 1,291,009; Jan. 14; v. 258; p. 263.
- Johnson, Benjamin F., and M. Bjornstad, Seattle, Wash. Flooring. No. 1,319,286; Oct. 21; v. 267; p. 397.
- Johnson, Benjamin I., Gascogne, N. D. Spark-plug. No. 1,312,850; Aug. 12; v. 265; p. 220.
- Johnson, Bradley S., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,302,055; Apr. 29; v. 261; p. 855.
- Johnson Bronze Company. (See Russler, Oscar F., assignor.)
- Johnson, Caleb C., Pawnee City, Nebr. Necktie form and fastener. No. 1,319,587; Oct. 21; v. 267; p. 454.
- Johnson, Carl E., St. Paul, Minn. Demountable traction-wheel. No. 1,309,633; July 15; v. 264; p. 366.
- Johnson, Carl E., St. Paul, Minn. Universal joint. No. 1,310,239; July 15; v. 264; p. 476.
- Johnson, Carl F., Milwaukee, Wis. Automatic control device. No. 1,312,253; Aug. 5; v. 265; p. 75.
- Johnson, Carl F., assignor to Johnson Service Company, Milwaukee, Wis. Screw-threaded fastening. No. 1,300,275; Apr. 15; v. 261; p. 428.
- Johnson, Carl J., Louisville, Ky. Treating transmission-bands. No. 1,293,107; Feb. 4; v. 259; p. 32.
- Johnson, Carl M., and H. L. Crouse, Caribou, Me. Bark-removing machine. No. 1,294,275; Feb. 11; v. 259; p. 334.
- Johnson, Charles, Akron, N. Y. Clothes-line stretcher. No. 1,305,116; May 27; v. 262; p. 598.
- Johnson, Charles B., New York, N. Y. Wheelbarrow. No. 1,312,990; Aug. 12; v. 265; p. 248.
- Johnson, Charles D., and F. W. Loddington, Worcester, Mass. Continuous-wire-drawing machine. No. 1,322,904; Nov. 25; v. 268; p. 645.
- Johnson, Charles E., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,322,697; Nov. 25; v. 268; p. 606.
- Johnson, Charles H., Sacramento, Calif. Game-board. No. 1,313,600; Aug. 19; v. 265; p. 380.
- Johnson, Charles J., Seattle, Wash. Hose connection. No. 1,324,874; Dec. 9; v. 269; p. 319.
- Johnson, Charles S. (See King, Jacoby, and Johnson.)
- Johnson, Charles S., Galesburg, Ill. Means for operating and controlling brakes, clutches, &c. No. 1,298,956; Apr. 1; v. 261; p. 78.
- Johnson, Charles T., assignor to The Dover Manufacturing Co., Dover, Ohio. Electric heater. No. 1,306,820; June 17; v. 263; p. 361.
- Johnson, Charles W., Pasco, Wash. Antiskidding device. No. 1,309,326; July 8; v. 264; p. 272.
- Johnson, Charles L., San Diego, assignor of one-half to R. A. Minto, Venice, Calif. Toy horse. No. 1,304,985; May 27; v. 262; p. 573.
- Johnson, Charles L., San Diego, Calif., assignor to Electric Horse Manufacturing and Amusement Co., Phoenix, Ariz. Motor-propelled horse. No. 1,308,425; July 1; v. 264; p. 76.
- Johnson, Christian J., Colfax, Wis. Buckle. No. 1,326,158; Dec. 23; v. 269; p. 674.
- Johnson, Clarence C., and J. F. D. Hoge, New York, N. Y., assignors to American District Telegraph Company, Jersey City, N. J. Signal system. No. 1,311,650; July 29; v. 264; p. 802.
- Johnson, Claude M., New York, N. Y. Wave-motor. No. 1,314,401; Aug. 26; v. 265; p. 567.
- Johnson, Clinton, Columbus, Ohio. Toy vehicle. No. 1,309,855; July 15; v. 264; p. 406.
- Johnson, Clifton L., Savannah, Ga. Double-swivel connecting-link for fishing-lines. No. 1,306,226; June 10; v. 263; p. 218.
- Johnson, Colvin L., Chicago, Ill. Lock. No. 1,326,270; Dec. 30; v. 269; p. 732.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift lever-lock. No. 1,299,954; Apr. 8; v. 261; p. 332.
- Johnson, Dade, Lemons, Mo. Wire-stretcher. No. 1,323,771; Dec. 2; v. 269; p. 102.
- Johnson, Dale B., Iola, Kans. Child's seat. No. 1,297,177; Mar. 11; v. 260; p. 342.
- Johnson, Edgar D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-repeater circuits. No. 1,326,199; Dec. 30; v. 269; p. 719.
- Johnson, Edward E., St. Paul, Minn. Railway water-column. No. 1,304,777; May 27; v. 262; p. 535.
- Johnson, Edward E., St. Paul, Minn. Means for forming metal ribbons. No. 1,315,022; Sept. 2; v. 266; p. 101.
- Johnson, Edward H., New York, N. Y. Transportation-case. No. 1,310,161; July 15; v. 264; p. 462.
- Johnson, Edward M., Blytheville, Ark. Spark-plug. No. 1,318,450; Oct. 14; v. 267; p. 212.
- Johnson, Edward P., Chicago, Ill. Strainer. No. 1,304,059; May 20; v. 262; p. 360.
- Johnson, Edwin T. (See Emmons and Johnson.)
- Johnson, Ella, Nocatee, Fla. Bottle-closure. No. 1,312,544; Aug. 12; v. 265; p. 160.
- Johnson, Eric. (See Engel, Carl, assignor.)
- Johnson, Eric, New York, N. Y. Rural-mail-box signal. No. 1,298,345; Mar. 25; v. 260; p. 645.
- Johnson, Erich, Cleveland, Ohio. Bread-cutter. No. 1,307,552; June 24; v. 263; p. 529.
- Johnson, Erich, Cleveland, Ohio. Whipper for eggs, cream, or the like. No. 1,308,953; July 8; v. 264; p. 201.
- Johnson, Erich, Cleveland, Ohio. Razor-blade holder. No. 1,324,968; Dec. 16; v. 269; p. 436.
- Johnson, Ernest S., Webster City, Iowa. Hog-oller. No. 1,290,753; Jan. 7; v. 258; p. 179.
- Johnson, Ernest S., Webster City, Iowa. Animal-feeding device. No. 1,322,698; Nov. 25; v. 268; p. 607.
- Johnson, Ernest S., Webster City, Iowa. Ventilating-window. No. 1,326,200; Dec. 30; v. 269; p. 719.
- Johnson, Ernest V., Chicago, Ill. Fireproof tile wall. No. 1,307,779; June 24; v. 263; p. 569.
- Johnson, Ernest V., Chicago, Ill. Floor structure. No. 1,321,213; Nov. 11; v. 268; p. 225.
- Johnson, Everett A., Danvers, Mont. Traffic-signal. No. 1,326,512; Dec. 30; v. 269; p. 778.
- Johnson Fare Box Company. (See Johnson, Jay M., assignor.)
- Johnson Fare Box Company. (See Woodward, Arthur H., assignor.)
- Johnson, Felix G., Clarinda, Iowa. Pig-farrowing house. No. 1,309,071; July 8; v. 264; p. 225.
- Johnson, Forrest W., assignor of one-half to F. M. Wilson, Hartman, Colo. Force-feed attachment for alfalfa-grinders and the like. No. 1,305,607; June 3; v. 263; p. 73.
- Johnson, Forrest W., assignor of one-half to F. M. Wilson, Hartman, Colo. Feed-grinder. No. 1,312,446; Aug. 5; v. 265; p. 112.
- Johnson, Frank. (See Snell and Johnson.)
- Johnson, Frank, Brooklyn, N. Y. Massaging device. No. 1,326,452; Dec. 30; v. 269; p. 766.
- Johnson, Frank, Wilmette, Ill., assignor to National Pneumatic Company, New York, N. Y. Door-operating mechanism. No. 1,291,910; Jan. 21; v. 258; p. 508.
- Johnson, Frank, New York, N. Y., assignor to Elevator Supplies Company, Inc. Dumb-waiter car. No. 1,301,569; Apr. 22; v. 261; p. 730.
- Johnson, Frank, assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle gear-shifting lever. No. 1,308,493; July 1; v. 264; p. 89.



- Johnson, Frank A., Danville, Ill. Lock. No. 1,296,085; Mar. 4; v. 260; p. 61.
- Johnson, Frank A., assignor of one-half to W. J. Freeman, Danville, Ill. Attachment for corn-planters. No. 1,301,134; Apr. 22; v. 261; p. 647.
- Johnson, Frank E., Dallas, Tex. Cotton-picker. No. 1,300,276; Apr. 15; v. 261; p. 428.
- Johnson, Frank B., Salt Lake City, Utah, assignor to American Manganese Steel Company, Chicago, Ill. Screen. No. 1,312,545; Aug. 12; v. 265; p. 160.
- Johnson, Fred, et al. (See Johns, Paul H., assignor.)
- Johnson, Fred I. (See Torkelson, Reinhard T., assignor.)
- Johnson, Fred L., Sioux Falls, S. D. Carrying-bag handle. No. 1,306,149; June 10; v. 263; p. 203.
- Johnson, Fred V., Berkeley, Calif. Tractor. No. 1,310,417; July 22; v. 264; p. 540.
- Johnson, Fred V., Berkeley, Calif. Tractor. No. 1,318,008; Oct. 7; v. 267; p. 66.
- Johnson, Frederic I. (See Paton and Koenig, assignors.)
- Johnson, Frederic I. (See Torkelson, Reinhard T., assignor.)
- Johnson, Frederick C., Jersey Shore, Pa. Machine for drilling or boring. No. 1,314,669; Sept. 2; v. 266; p. 37.
- Johnson, Frederick G. L., assignor to Vickers Limited, Westminster, London, England. Shell-fuse. No. 1,313,298; Aug. 19; v. 265; p. 324.
- Johnson, Frederick G. L., assignor to Vickers Limited, Westminster, London, England. Shell - fuse. No. 1,322,191; Nov. 18; v. 268; p. 459.
- Johnson, Frederick H., South Pasadena, assignor to Haden Automatic Sprinkler Company, Los Angeles, Calif. System and means of control. No. 1,323,867; Dec. 2; v. 269; p. 121.
- Johnson, Frederick O., Detroit, Mich. Butcher's saw. No. 1,303,908; May 20; v. 262; p. 333.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Rocker side bearing. No. 1,290,213; Jan. 7; v. 258; p. 48.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,290,214; Jan. 7; v. 258; p. 48.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller-bearing. No. 1,290,215; Jan. 7; v. 258; p. 48.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,290,216; Jan. 7; v. 258; p. 49.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorbing mechanism. No. 1,290,217; Jan. 7; v. 258; p. 49.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,290,218; Jan. 7; v. 258; p. 49.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,290,219; Jan. 7; v. 258; p. 49.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorbing mechanism. No. 1,290,220; Jan. 7; v. 258; p. 50.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing means. No. 1,290,221; Jan. 7; v. 258; p. 50.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear for draft-rigging. No. 1,300,402; Apr. 15; v. 261; p. 455.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging. No. 1,300,403; Apr. 15; v. 261; p. 455.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear for railway draft-rigging. No. 1,300,404; Apr. 15; v. 261; p. 455.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Rocker side bearing. No. 1,300,405; Apr. 15; v. 261; p. 455.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear for railway-cars. No. 1,301,944; Apr. 29; v. 261; p. 834.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear. No. 1,301,945; Apr. 29; v. 261; p. 835.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-draft-rigging friction-gear. No. 1,301,946; Apr. 29; v. 261; p. 835.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-yoke for railway-car draft-rigging. No. 1,303,909; May 20; v. 262; p. 333.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Self-centering roller bearing. No. 1,317,791; Oct. 7; v. 267; p. 25.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Gravity self-centering roller-bearing. No. 1,317,792; Oct. 7; v. 267; p. 25.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Self-centering antifriction-bearing. No. 1,317,793; Oct. 7; v. 267; p. 25.
- Johnson, George C., Los Angeles, Calif., assignor to O. L. Moore, Chicago, Ill. Printing-press mechanism. No. 1,302,666; May 6; v. 262; p. 35.
- Johnson, George H., Los Angeles, Calif. Solid-rubber-tire-trimming tool. No. 1,319,287; Oct. 21; v. 267; p. 397.
- Johnson, George M., assignor of one-half to A. W. Behling, McDonald, Pa. Display-stand. No. 1,292,329; Jan. 21; v. 258; p. 611.
- Johnson, George T., New York, N. Y. Toilet-paper and the like. No. 1,316,041; Sept. 16; v. 266; p. 310.
- Johnson, George W., Three Forks, Mont. Automobile-tire. No. 1,298,731; Apr. 1; v. 261; p. 26.
- Johnson, Gertrude A., Sidney, Nebr. Spring-seat for baby-carriages. No. 1,326,737; Dec. 30; v. 269; p. 820.
- Johnson, Gust W. (See Simms and Johnson.)
- Johnson, Gustave A., New York, N. Y. Quill-grinding machine. No. 1,319,089; Oct. 21; v. 267; p. 359.
- Johnson, Gustave A., assignor to Winchester Repeating Arms Co., New Haven, Conn. Hand-trap for throwing clay pigeons. No. 1,306,381; June 10; v. 263; p. 249.
- Johnson, Guy L., Oakland, Cal. Emergency-brake for motor-vehicles. No. 1,293,457; Feb. 4; v. 259; p. 112.
- Johnson, Hans P., Racine, Wis. Rail-joint. No. 1,295,324; Feb. 25; v. 259; p. 634.
- Johnson, Harry J. (See Mastalia, Enrico, assignor.)
- Johnson, Harry W., Atherton, England. Apparatus for sealing vessels. No. 1,298,218; Mar. 25; v. 260; p. 619.
- Johnson, Herman U., assignor of one-half to F. C. Brown, Waukegan, Ill. Vaporizing device. No. 1,295,513; Feb. 25; v. 259; p. 679.
- Johnson, Homer B., Sheridan, Ind. Rein-operative control means for motor-cars. No. 1,300,618; Apr. 15; v. 261; p. 500.
- Johnson, Homer B., Sheridan, Ind. Rein-operated means for motor-cars. No. 1,300,619; Apr. 15; v. 261; p. 500.
- Johnson, Horace G., Kenosha, Wis. Garment. No. 1,298,346; Mar. 25; v. 260; p. 645.
- Johnson, Hutson A., Brooklyn, N. Y. Aeroplane. No. 1,310,344; July 15; v. 264; p. 495.
- Johnson, Ida B., Chicago, Ill. Button-fastening. No. 1,323,365; Dec. 2; v. 269; p. 27.
- Johnson, Isabelle S., et al. (See Smith, Glenn R., assignor.)
- Johnson, Jacob T., Atlanta, Ga. Shade-holder. No. 1,304,320; May 20; v. 262; p. 409.
- Johnson, James, O'Brien, Wash. Drag-saw. No. 1,303,561; May 13; v. 262; p. 230.
- Johnson, James A., Richmond, Va. Bottle-soaking machine. No. 1,294,469; Feb. 18; v. 259; p. 416.
- Johnson, James A., Richmond, Va. Bottle-washing machine. No. 1,305,370; June 3; v. 263; p. 26.
- Johnson, James A., assignor of one-half to E. D. Brown, Stockville, Nebr. Electrically-operated railway-switch. No. 1,309,524; July 8; v. 264; p. 308.
- Johnson, James A., assignor of one-half to L. J. Remm, Chicago, Ill. Shock-absorber. No. 1,310,021; July 15; v. 264; p. 437.
- Johnson, James L., Wilkes-Barre, Pa. Auxiliary engine-support bracket for automobiles. No. 1,320,234; Oct. 28; v. 267; p. 598.
- Johnson, James P., Toronto, Ontario, Canada. Automobile-washer. No. 1,297,567; Mar. 18; v. 260; p. 453.
- Johnson, James P., East Cleveland, Ohio. Hot-air furnace. No. 1,317,794; Oct. 7; v. 267; p. 25.
- Johnson, James P., Savannah, Ga. Dust-blowing attachment for handsaws. No. 1,318,565; Oct. 14; v. 267; p. 234.
- Johnson, James T., Chicago, Ill. Die-stock. No. 1,306,907; June 17; v. 263; p. 378.
- Johnson, James T., Chicago, Ill. Automatic spark-arrester for saws. No. 1,312,121; Aug. 5; v. 265; p. 51.
- Johnson, Jay M., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Fare register and collector. No. 1,295,900; Mar. 4; v. 260; p. 18.
- Johnson, Jay M., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Coin and ticket fare register. No. 1,310,833; July 22; v. 264; p. 618.
- Johnson, Jay M. C., Seattle, Wash. Thread-cutting attachment. No. 1,311,125; July 22; v. 264; p. 671.
- Johnson, Jens, Rollag, Minn. Tension device for endless-belt carriers. No. 1,290,222; Jan. 7; v. 258; p. 50.
- Johnson, Jeremiah, Port Colborne, Ontario, Canada. Automatic train control. No. 1,304,778; May 27; v. 262; p. 535.
- Johnson, Jeremiah, Port Colborne, Ontario, Canada. Train-controlling block system. No. 1,320,473; Nov. 4; v. 268; p. 22.
- Johnson, John, Tukwila, assignor of one-half to T. Carlson, Stillwater, Wash. Excavating and hoisting apparatus. No. 1,300,842; Apr. 15; v. 261; p. 548.
- Johnson, John A., Chicago, Ill. Sash-fastener. No. 1,320,147; Oct. 28; v. 267; p. 582.
- Johnson, John A., assignor to Anderson Electric Specialty Company, Chicago, Ill. Hydrocarbon-burner. No. 1,294,276; Feb. 11; v. 259; p. 334.
- Johnson, John A., Greenfield, assignor to J. W. P. Tire Company, Indianapolis, Ind. Pneumatic tire. No. 1,326,154; Dec. 23; v. 269; p. 673.
- Johnson, John C., San Jose, Calif. Peach-pitter. No. 1,321,311; Nov. 11; v. 268; p. 244.
- Johnson, John D. A., Muskegon, Mich. Clothes-wringer. No. 1,320,061; Oct. 28; v. 267; p. 566.
- Johnson, John E., Ruth, Nev. Automobile-tire enlarger. No. 1,311,971; Aug. 5; v. 265; p. 22.



*Alphabetical list of patentees—Continued.*

- Johnson, John E., and C. H. Oslund, assignors to The O. and J. Machine Company, Worcester, Mass. Conveying device. No. 1,300,406; Apr. 15; v. 261; p. 455.
- Johnson, John E., and C. H. Oslund, assignors to The O. and J. Machine Company, Worcester, Mass. Label-advancing mechanism. No. 1,300,407; Apr. 15; v. 261; p. 455.
- Johnson, John E., and C. H. Oslund, assignors to The O. & J. Machine Company, Worcester, Mass. Bottle-seal-labeling machine. No. 1,300,408; Apr. 15; v. 261; p. 456.
- Johnson, John E., and C. H. Oslund, assignors, by mesne assignments, to The O. and J. Machine Company, Worcester, Mass. Advancing means for label-holders. No. 1,300,409; Apr. 15; v. 261; p. 456.
- Johnson, John E., and C. H. Oslund, assignors to The O. and J. Machine Company, Worcester, Mass. Label-wiping machine. No. 1,326,201; Dec. 30; v. 269; p. 719.
- Johnson, John F. (See Hitchcock, Halbert K., assignor.)
- Johnson, John R., Forest City, Iowa. Driving mechanism for motor-vehicles. No. 1,294,470; Feb. 18; v. 259; p. 416.
- Johnson, John R., New Brighton, Pa. Sanitary razor-strop cabinet. No. 1,297,568; Mar. 18; v. 260; p. 454.
- Johnson, John W., Waterville, Kans. Measuring-faucet. No. 1,309,688; July 15; v. 264; p. 376.
- Johnson, Joseph E., Louisville, Ky. Tooth-band. No. 1,304,881; May 27; v. 262; p. 554.
- Johnson, Joseph E., Jr., deceased; M. H. Johnson, executrix, Hartsdale, N. Y. Making ferrosilicon and by-products. No. 1,318,763; Oct. 14; v. 267; p. 271.
- Johnson, Joseph E., Jr., deceased; M. H. Johnson, executrix, Hartsdale, N. Y. Producing iron alloys. No. 1,318,764; Oct. 14; v. 267; p. 271.
- Johnson, Josiah F., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade. No. 1,317,707; Oct. 7; v. 267; p. 9.
- Johnson, Juddie, Stockham, Nebr. Hog butchering and scalding table. No. 1,315,023; Sept. 2; v. 266; p. 101.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-circuit. No. 1,293,458; Feb. 4; v. 259; p. 113.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic coil. No. 1,297,858; Mar. 18; v. 260; p. 516.
- Johnson, Jokum. (See Ovren, John E., assignor.)
- Johnson, Joseph O., Menomonie, Wis. Pumping attachment for motor-vehicles. No. 1,298,957; Apr. 1; v. 261; p. 78.
- Johnson, Lancelot, Islington, London, England. Magneto starting mechanism. No. 1,294,277; Feb. 11; v. 259; p. 335.
- Johnson, Lawrence E., Melrose, Mass. Thread-measuring device for sewing-machines. No. 1,320,330; Oct. 28; v. 267; p. 616.
- Johnson, Lawrence E., assignor to M. S. Johnson, Melrose, Mass. Lifting-jack. No. 1,304,882; May 27; v. 262; p. 554.
- Johnson, Leonard T., Boston, Mass. Scale. No. 1,309,436; July 8; v. 264; p. 292.
- Johnson, Lewis H., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,306,063; June 10; v. 263; p. 187.
- Johnson, Louise E. (See Johnson, William S. and L. E.)
- Johnson, Manfred J. (See Bristol and Johnson.)
- Johnson, Mannon G. (See Hines and Johnson.)
- Johnson Manufacturing Company. (See Fusner, Jesse L., assignor.)
- Johnson, Marcus, Brooklyn, N. Y. Circular swing. No. 1,320,235; Oct. 28; v. 267; p. 508.
- Johnson, Margaret H., executrix. (See Johnson, Joseph E., Jr.)
- Johnson, Mary R., Boissevain, Manitoba, Canada. Preserving and canning rack. No. 1,308,244; July 1; v. 264; p. 43.
- Johnson, Mason L. (See Body, Long, Johnson, Kilgore, and Blevins.)
- Johnson, Mattie S. (See Johnson, Lawrence E., assignor.)
- Johnson, Nathan C., Englewood, N. J. Method of and apparatus for mixing cement with other ingredients. No. 1,318,282; Oct. 7; v. 267; p. 119.
- Johnson, Nels J., High Lake township, Emmet county, Iowa. Post-hole reamer. No. 1,298,509; Mar. 25; v. 260; p. 682.
- Johnson, Nels M., and T. S. Quin, Chicago, Ill. Safety-indicator and license-bracket. No. 1,291,010; Jan. 14; v. 258; p. 264.
- Johnson, Nels M., and T. S. Quin, Chicago, Ill. Ruling-board. No. 1,295,901; Mar. 4; v. 260; p. 19.
- Johnson, Nels O., Missionhill, S. D. Road-drag. No. 1,296,400; Mar. 4; v. 260; p. 132.
- Johnson, Olaf, West New York, N. J., assignor of one-half to B. Klavenes, Brooklyn, N. Y. Method of and means for maintaining ships afloat. No. 1,303,910; May 20; v. 262; p. 333.
- Johnson, Olaf I., et al. (See Witherell, Earl M., assignor.)
- Johnson, Olive J., assignor of one-half to G. W. Wortham, Paris, Tex. Agricultural machine. No. 1,300,411; Apr. 15; v. 261; p. 456.
- Johnson, Oliver L., San Francisco, Cal. Percolator. No. 1,296,086; Mar. 4; v. 260; p. 61.
- Johnson, Oliver W. (See Newman and Johnson.)
- Johnson, Oliver W., Cleveland, Ohio. Automatic cultivator attachment for plows. No. 1,307,672; June 24; v. 263; p. 549.
- Johnson, Oliver W., Cleveland, Ohio. Ground-engaging surface of traction-wheels. No. 1,311,972; Aug. 5; v. 265; p. 22.
- Johnson, Oliver W., Geneva, Ohio. Tractor. No. 1,307,673; June 24; v. 263; p. 550.
- Johnson, Olof, Northville, N. Y. Mechanical movement for weaving-machines. No. 1,295,756; Feb. 25; v. 259; p. 734.
- Johnson, Oscar, New York, N. Y., assignor to The Auto Pneumatic Action Company. Tracker and pedal connections for player grand pianos. No. 1,307,297; June 17; v. 263; p. 449.
- Johnson, Oscar R., Providence, R. I. Lingerie-clasp. No. 1,313,299; Aug. 19; v. 265; p. 324.
- Johnson, Oscar S., Makoti, N. D. Knotter-head for binders. No. 1,316,578; Sept. 23; v. 266; p. 460.
- Johnson, Otto W., San Francisco, Calif. Rotary fluid-pressure device. No. 1,297,693; Mar. 18; v. 260; p. 481.
- Johnson, Paschal B., assignor to F. J. Myers, Los Angeles, Calif. Tool-holder. No. 1,303,205; May 6; v. 262; p. 138.
- Johnson, Philip D., Chicago, assignor of one-half to C. A. Brown, Hinsdale, Ill. Burner. No. 1,300,171; Apr. 8; v. 261; p. 379.
- Johnson, Philip D., Chicago, assignor of one-half to C. A. Brown, Hinsdale, Ill. Stopping leaks in boilers and the like. No. 1,317,658; Sept. 30; v. 266; p. 699.
- Johnson, Pierce X., assignor of one-fourth to A. H. Eilers and one-fourth to M. C. Koester, Portland, Oreg. Fish-trap. No. 1,292,794; Jan. 28; v. 258; p. 743.
- Johnson, Ralph C., Chicago, Ill. Landing-gear for flying-machines. No. 1,313,696; Aug. 19; v. 265; p. 398.
- Johnson, Raymond D., New York, N. Y. Automatic valve. No. 1,319,154; Oct. 21; v. 267; p. 373.
- Johnson, Raymond D., New York, N. Y. Valve. No. 1,321,750; Nov. 11; v. 268; p. 327.
- Johnson, Raymond D., New York, N. Y. Valve. No. 1,321,751; Nov. 11; v. 268; p. 327.
- Johnson, Raymond L., Nekoma, Kans. Air-pipe coupling for railway-cars. No. 1,294,913; Feb. 18; v. 259; p. 518.
- Johnson, Richard H. (See Drake, Samuel S., assignor.)
- Johnson, Robert A., New Orleans, La. Window-screen. No. 1,317,579; Sept. 30; v. 266; p. 685.
- Johnson, Ross B., Cherokee, Iowa. Rail-rolling machine. No. 1,307,498; June 24; v. 263; p. 519.
- Johnson, Rudolf A. (See Carlson and Johnson.)
- Johnson, Rudolf F., Ceresco, Nebr. Adjustable hame-loop. No. 1,305,117; May 27; v. 262; p. 598.
- Johnson, Samuel T., Dallas, Tex. Printing appliance. No. 1,295,325; Feb. 25; v. 259; p. 635.
- Johnson, Sarah, executrix. (See Johnson, Sinclair J.)
- Johnson Service Company. (See Hofstad, Nels, assignor.) (Reissue.)
- Johnson Service Company. (See Johnson, Carl F., assignor.)
- Johnson, Simon H., New Haven, Conn. Cigarette-case. No. 1,321,453; Nov. 11; v. 268; p. 271.
- Johnson, Simon P., Westpoint, Nebr. Wind-shield wiper and glare-protector. No. 1,322,115; Nov. 18; v. 268; p. 444.
- Johnson, Sinclair J., deceased; S. Johnson, executrix, assignor of one-half to W. C. Shultz, Montclair, N. J. Rotary engine. No. 1,293,459; Feb. 4; v. 259; p. 113.
- Johnson, Sinclair J., deceased; S. Johnson, executrix, assignor of one-half to W. C. Shultz, Montclair, N. J. Power-transmission mechanism. No. 1,305,371; June 3; v. 263; p. 27.
- Johnson, Sinclair J., deceased; S. Johnson, executrix, assignor of one-half to W. C. Shultz, Montclair, N. J. Fluid-clutch. No. 1,311,279; July 29; v. 264; p. 732.
- Johnson, Smith M., Middlefield, Ohio. Wire-bender. No. 1,316,243; Sept. 16; v. 266; p. 347.
- Johnson, Stephen E. (See Irwin and Johnson.)
- Johnson, Sullivan V. (See Leonard and Johnson.)
- Johnson, Sylvester A., assignor to The Hadley Mfg. Company Limited, Toronto, Ontario, Canada. Bracelet end hook. No. 1,315,226; Sept. 9; v. 266; p. 148.
- Johnson, Telemachus H., Sioux City, Iowa. Laying concrete pavements. No. 1,314,810; Sept. 2; v. 266; p. 63.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Trigger mechanism for firearms. No. 1,297,859; Mar. 18; v. 260; p. 516.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Locking mechanism for firearms. No. 1,299,189; Apr. 1; v. 261; p. 131.
- Johnson, Thomas C., New Haven, Conn., assignor to Winchester Repeating Arms Co. Bolt-action gun. No. 1,322,242; Nov. 18; v. 268; p. 469.



- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Box-magazine bolt-action rifle. No. 1,323,064; Nov. 25; v. 268; p. 675.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Shoulder-arm. No. 1,323,065; Nov. 25; v. 268; p. 675.
- Johnson, Thomas C., New Haven, and F. F. Burton, East Haven, assignors to Winchester Repeating Arms Co., New Haven, Conn. Device for loading box-magazines. No. 1,295,038; Feb. 18; v. 259; p. 546.
- Johnson, Thomas C., New Haven, and F. F. Burton, East Haven, assignors to Winchester Repeating Arms Co., New Haven, Conn. Portable device for loading box-magazines from cartons. No. 1,295,039; Feb. 18; v. 259; p. 546.
- Johnson, Thomas C., and C. E. Blizzard, assignors to Winchester Repeating Arms Co., New Haven, Conn. Break-down shotgun. No. 1,314,196; Aug. 26; v. 265; p. 527.
- Johnson, Thomas C., and F. L. Humiston, assignors to Winchester Repeating Arms Co., New Haven, Conn. Box-magazine. No. 1,323,063; Nov. 25; v. 268; p. 675.
- Johnson, Tomlinson F., Jr., Atlanta, Ga. Testing and locating defective multiple-part pin-type insulators. No. 1,303,206; May 6; v. 262; p. 139.
- Johnson, Victor J., and E. G. Thoreen, Worcester, Mass., assignors, by mesne assignments, to The Torrington Company, Torrington, Conn. Pneumatic carpet-sweeper. No. 1,303,818; May 13; v. 262; p. 278.
- Johnson, Victor J., and E. G. Thoreen, Worcester, Mass., assignors, by mesne assignments, to The Torrington Company, Torrington, Conn. Pneumatic dust-collector. No. 1,303,819; May 13; v. 262; p. 278.
- Johnson, Walden G., Los Angeles, Calif. Floor sanding and polishing machine. No. 1,316,841; Sept. 23; v. 266; p. 508.
- Johnson, Walter, Middletown, Conn. Toy aeroplane. No. 1,311,351; July 29; v. 264; p. 746.
- Johnson, Walter C., Smithmill, Pa. Antiskid-chain. No. 1,326,513; Dec. 30; v. 269; p. 778.
- Johnson, Walter C., Smithmill, Pa. Chain-fastener. (Reissue.) No. 14,783; Dec. 30; v. 269; p. 851.
- Johnson, Walter S., Nicholas, N. Y. Spoon-holder. No. 1,321,048; Nov. 4; v. 268; p. 130.
- Johnson, Werner, Seattle, Wash. Conveyer. No. 1,297,569; Mar. 18; v. 260; p. 454.
- Johnson, William, and G. E. Schoffstall, Pilot Mound, Iowa. Automobile radiator-tank. No. 1,301,446; Apr. 22; v. 261; p. 708.
- Johnson, William A., Branscomb, and J. M. Robbins, Healdsburg, Cal. Fruit-gatherer. No. 1,293,460; Feb. 4; v. 259; p. 113.
- Johnson, William H., Whitman, Mass. Machine for forming nails, brads, and the like. No. 1,296,087; Mar. 4; v. 260; p. 62.
- Johnson, William H., Terre Haute, Ind. Automatic leer-feeder. No. 1,316,160; Sept. 16; v. 266; p. 332.
- Johnson, William H., San Francisco, Calif. Tractor. No. 1,320,331; Oct. 28; v. 267; p. 616.
- Johnson, William H. B., T. E. Lind, and T. W. Clarke, Seattle, Wash. Automobile. No. 1,301,447; Apr. 22; v. 261; p. 708.
- Johnson, William S. and L. E., Joliet, Ill. Theatrical device. No. 1,297,473; Mar. 18; v. 260; p. 434.
- Johnson, Woolsey M., Hartford, Conn. Cement-making process. No. 1,297,297; Mar. 11; v. 260; p. 368.
- Johnson, Woolsey M., Hartford, Conn. Treating nickel scrap and sludge. No. 1,299,577; Apr. 8; v. 261; p. 247.
- Johnson, Woolsey M., Hartford, Conn. Steel-making process. No. 1,300,410; Apr. 15; v. 261; p. 456.
- Johnsson, Knut E., Wilkensburg, Pa. Parabola-forming device. No. 1,291,011; Jan. 14; v. 258; p. 264.
- Johnsson, Knut E. T., New York, N. Y. Grinding parabolic surfaces. No. 1,325,789; Dec. 23; v. 269; p. 605.
- Johnston, Andrew L., Jr., U. S. Navy. Means for facilitating the keeping of thrift accounts by banks. No. 1,315,773; Sept. 9; v. 266; p. 245.
- Johnston, Andrew L., Jr., Richmond, Va., assignor to Metropolitan Electric Manufacturing Company, Camden, N. J. Electric switch. No. 1,307,258; June 17; v. 263; p. 441.
- Johnston, Arthur C., assignor to Link-Belt Company, Chicago, Ill. Coal-pile. (Reissue.) No. 14,598; Feb. 25; v. 259; p. 754.
- Johnston, Benjamin F., Toronto, Ontario, Canada. Incubator. No. 1,319,342; Oct. 21; v. 267; p. 407.
- Johnston, Brooks, Vallejo, Calif. Monoplane. No. 1,304,883; May 27; v. 262; p. 554.
- Johnston, Charles E., South Berkeley, Calif., assignor of one-half to W. Barney and one-half to F. A. Bowman, New York, N. Y. Attachment for scissors or shears. No. 1,319,588; Oct. 21; v. 267; p. 455.
- Johnston, Clarence L., Oakland, Calif., assignor to Pacific Burt Company, Limited, Toronto, Ontario, Canada. Manifold sales-book. No. 1,309,289; July 8; v. 264; p. 265.
- Johnston, Clarence S., Glendine, Mont. Sectional wheel-rim. (Reissue.) No. 14,723; Sept. 16; v. 266; p. 407.
- Johnston, Donald F., Toronto, Ontario, Canada, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Instrument-board. No. 1,305,287; June 3; v. 263; p. 11.
- Johnston, Earl W., Detroit, Mich. Heat-insulated receptacle. No. 1,305,903; June 3; v. 263; p. 127.
- Johnston, Edward A., and E. J. Kane, Chicago, Ill., assignors, by mesne assignments, to International Harvester Company, Tractor. No. 1,299,190; Apr. 1; v. 261; p. 131.
- Johnston, Eugene B., Glenhope, Pa. Folding crate. No. 1,324,313; Dec. 9; v. 269; p. 250.
- Johnston, Fred, assignor of one-half to A. Orr, Calgary, Alberta, Canada. Treating matches in order to render them immune to the action of moisture. No. 1,301,448; Apr. 22; v. 261; p. 708.
- Johnston, George S., Evanston, assignor to G. S. Johnston Company, Chicago, Ill. Goggles and the like. No. 1,315,129; Sept. 2; v. 266; p. 119.
- Johnston, Greenhow, Richmond, Va. Electric reciprocating device. No. 1,300,277; Apr. 15; v. 261; p. 428.
- Johnston, Herbert L., assignor to The Hobart Manufacturing Company, Troy, Ohio. Coffee-grinder. No. 1,291,534; Jan. 14; v. 258; p. 386.
- Johnston, Howard H. (See Candee and Johnston.)
- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,294,110; Feb. 11; v. 259; p. 296.
- Johnston, Richard M., Gallup, N. Mex. Spring-hammer. No. 1,323,222; Nov. 25; v. 268; p. 706.
- Johnston, Howard M., assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Canvas conveyer. No. 1,305,608; June 3; v. 263; p. 73.
- Johnston, John A., Springfield, Mass. Apparatus for and method of making roads. (Reissue.) No. 14,587; Jan. 14; v. 258; p. 424.
- Johnston, John F., Bethlehem, Pa. Telemotor. No. 1,302,376; Apr. 29; v. 261; p. 916.
- Johnston, John F., Barborton, assignor to The Electric Rubber Reclaiming Company, Akron, Ohio. Treating rubber waste. No. 1,291,535; Jan. 14; v. 258; p. 386.
- Johnston, John F., Barborton, assignor to The Electric Rubber Reclaiming Company, Akron, Ohio. Cotton-containing rubber composition. No. 1,291,536; Jan. 14; v. 258; p. 386.
- Johnston, John M., Salem, Ohio. Trolley-harp. No. 1,306,669; June 10; v. 263; p. 302.
- Johnston, Joseph E., Norfolk, Va. Douche. No. 1,312,851; Aug. 12; v. 265; p. 220.
- Johnston, Millard L., Utica, N. Y. Cooler for firearms. No. 1,296,193; Mar. 4; v. 260; p. 87.
- Johnston, Nellie M. (See La Bate, James H., assignor.)
- Johnston, Roy R., Cosmopolis, Wash. Grain-separator. No. 1,308,496; July 1; v. 264; p. 89.
- Johnston & Seckendorf. (See Seckendorf, Samuel, assignor.)
- Johnston, William, Belfast, Ireland. Bicycle-frame. No. 1,298,958; Apr. 1; v. 261; p. 78.
- Johnston, William, Drayton, N. D. Stock-marker. No. 1,318,283; Oct. 7; v. 267; p. 120.
- Johnston, William A., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental-equipment stand. No. 1,290,568; Jan. 7; v. 258; p. 134.
- Johnston, William G., Philadelphia, Pa., assignor, by mesne assignments, to H. A. Penrose, Quinby, Va. Turbine gas-engine. No. 1,322,577; Nov. 25; v. 268; p. 584.
- Johnston, Winfred M., Dale, Wis. Camera. No. 1,321,102; Nov. 11; v. 268; p. 204.
- Johnstone, Gordon A., Atlanta, Ga. Warp-controlling device for looms. No. 1,294,809; Feb. 18; v. 259; p. 494.
- Johnstone, William O., North Tonawanda, N. Y. Building-tile construction. No. 1,325,249; Dec. 16; v. 269; p. 488.
- Joiner, George, New York, N. Y. Liquid-fuel burner. No. 1,291,012; Jan. 14; v. 258; p. 264.
- Jolidon, Charles J., Hartford, Conn. Firearm. No. 1,310,397; July 15; v. 264; p. 505.
- Jolitz, Charles R., Denver, Colo. Grinder. No. 1,301,449; Apr. 22; v. 261; p. 708.
- Jolly, Benjamin R., Raleigh, N. C. Combined field-glass and range-finder. No. 1,294,341; Feb. 11; v. 259; p. 349.
- Jolly, Benjamin R., Raleigh, N. C. Fountain-pen. No. 1,299,836; Apr. 8; v. 261; p. 306.
- Jolly, Benjamin R., Raleigh, N. C. Insect-catcher. No. 1,308,497; July 1; v. 264; p. 89.
- Jolly, Benjamin R., Raleigh, N. C. Wrist-watch strap. No. 1,315,729; Sept. 9; v. 266; p. 238.
- Joly, Charles J., Ennis, Tex. Knockdown extension covered wagon-bed. No. 1,309,856; July 15; v. 264; p. 407.
- Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Vapor electric rectifier. No. 1,316,484; Sept. 16; v. 266; p. 393.
- Jones, Albert L., assignor to Jones Bros. Overall Co., Dubuque, Iowa. Rompers. No. 1,297,474; Mar. 18; v. 260; p. 434.
- Jones, Albert L., assignor to Jones Bros. Overall Co., Dubuque, Iowa. One-piece outer garment. No. 1,297,475; Mar. 18; v. 260; p. 434.
- Jones, Alfred H., Brooklyn, N. Y. Safety swimming-cycle. No. 1,318,879; Oct. 14; v. 267; p. 294.
- Jones, Andrew S., et al. (See Dickerson, Raymond L., assignor.)
- Jones, Archie H., Tonopah, Nev. Ore-separating device. No. 1,326,453; Dec. 30; v. 269; p. 766.



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- Jones, Arthur L., Auburn, N. Y. Camera. No. 1,312,122; Aug. 5; v. 265; p. 51.
- Jones, Arthur S., Independence, assignor of one-half to J. F. Goshorn, Kansas City, Mo. Well-cleaning device. No. 1,317,192; Sept. 30; v. 266; p. 610.
- Jones, Arthur S., Kansas City, Mo. Well-cleaning device. No. 1,318,207; Oct. 7; v. 267; p. 105.
- Jones, Arthur W., Stepps, J. Bryden, Gartcosh, and A. J. H. Mowbray, Stirling, Scotland. Handling and transporting device. No. 1,319,872; Oct. 28; v. 267; p. 532.
- Jones and Baker. (See Herter, Rudolph B., assignor.)
- Jones, Benjamin H., assignor to Smith & Davis Manufacturing Company, St. Louis, Mo. Bed-bottom. No. 1,317,299; Sept. 30; v. 266; p. 630.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. System of control for electric motors. No. 1,306,545; June 10; v. 263; p. 278.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,315,774; Sept. 9; v. 266; p. 245.
- Jones Bros. Overall Co. (See Jones, Albert L., assignor.)
- Jones Brothers Company. (See Jones, Robert B., assignor.)
- Jones, Budd J., assignor to The Jones-Fisher Company, Columbus, Ohio. Finger attachment for signaling devices. No. 1,296,088; Mar. 4; v. 260; p. 62.
- Jones, Carroll L., Cheriton, Va. Car-stop. No. 1,309,035; July 8; v. 264; p. 218.
- Jones, Charles, Webster City, Iowa. Automobile lifting and power jack. No. 1,320,474; Nov. 4; v. 268; p. 22.
- Jones, Charles A., Hillsboro, N. H. Trolley-supporting device. No. 1,310,345; July 15; v. 264; p. 495.
- Jones, Charles B., et al. (See Macdonald, James R., assignor.)
- Jones, Charles C., Los Angeles, Calif. Process of extracting iron from its ore. No. 1,319,589; Oct. 21; v. 267; p. 455.
- Jones, Charles E., Chicago, Ill. Chandeller apparatus. No. 1,290,569; Jan. 7; v. 258; p. 134.
- Jones, Charles E., Chicago, Ill. Lighting-fixture. No. 1,320,148; Oct. 28; v. 267; p. 583.
- Jones, Charles E., assignor to Metal Arts & Crafts Co., Chicago, Ill. Lighting-fixture. No. 1,309,857; July 15; v. 264; p. 407.
- Jones, Charles J., San Antonio, Tex. Water-elevator. No. 1,290,754; Jan. 7; v. 258; p. 179.
- Jones, Charles M., North Yakima, Wash. Lifting-jack. No. 1,298,959; Apr. 1; v. 261; p. 79.
- Jones, Charles M., North Yakima, Wash. Wrench. No. 1,326,454; Dec. 30; v. 269; p. 766.
- Jones, Charles W., Oakland, Calif. Steam-turbine. No. 1,307,864; June 24; v. 263; p. 585.
- Jones, Chester B. (See Strom, Otto H., assignor.)
- Jones, Clarence V., Toronto, Ontario, Canada. Transom-operating mechanism. No. 1,297,860; Mar. 18; v. 260; p. 517.
- Jones, Clarence V., Toronto, Ontario, Canada. Window-operating device. No. 1,319,396; Oct. 21; v. 267; p. 418.
- Jones, Claude D., Oklahoma, Okla. Toilet-paper cutter. No. 1,326,738; Dec. 30; v. 269; p. 820.
- Jones, David B., Chicago, Ill. Treating zinc ore. No. 1,292,330; Jan. 21; v. 258; p. 611.
- Jones, David R., Jr., Dubuque, Iowa. Account-book. No. 1,316,899; Sept. 23; v. 266; p. 519.
- Jones, David W., Chicago, Ill. Automobile-spring and connection therefor. No. 1,292,611; Jan. 28; v. 258; p. 700.
- Jones, Deyo, Detroit, Mich. Lubricating device for locomotive-rod-pin connections. No. 1,310,531; July 22; v. 264; p. 561.
- Jones, Edward J., Irma, Alberta, Canada. Lamp-chimney holder. No. 1,326,061; Dec. 23; v. 269; p. 656.
- Jones, Edward P., Breckenridge, Colo. Rock-drill-operating mechanism. No. 1,314,811; Sept. 2; v. 266; p. 63.
- Jones, Edwin C., Toronto, Ontario, Canada. Garment-supporter. No. 1,310,084; July 15; v. 264; p. 448.
- Jones, Elmer A., assignor to Jones Signal System Company, Atlanta, Ga. Automatic train-stop or cab-signal. No. 1,290,223; Jan. 7; v. 258; p. 50.
- Jones, Ernest H., London, England. Electrode for electric arc soldering. No. 1,312,254; Aug. 5; v. 265; p. 75.
- Jones, Eugene A., Los Angeles, Calif. Operating mechanism for collapsible rims for wheels. No. 1,325,326; Dec. 16; v. 269; p. 503.
- Jones, Everett W., Los Angeles, Calif. Window-tent. No. 1,314,474; Aug. 26; v. 265; p. 580.
- Jones, F. W., et al. (See Dingwell, Ruel, assignor.)
- Jones-Fisher Company, The. (See Jones, Budd J., assignor.)
- Jones, Frederick D., Alhambra, Cal. Inherently-keyed graphic drill-problem device. No. 1,296,965; Mar. 11; v. 260; p. 296.
- Jones, Frederick R., assignor to Buffalo Co-operative Stove Company, Buffalo, N. Y. Incinerator. No. 1,311,522; July 29; v. 264; p. 778.
- Jones, George, Manor Park, England. Driving arrangement of electric motors. No. 1,313,537; Aug. 19; v. 265; p. 369.
- Jones, George A. E., Beverly, Mass. Apparatus for hot riveting. No. 1,297,570; Mar. 18; v. 260; p. 454.
- Jones, George A. E., assignor to United States Electric Company, New London, Conn. Electric rivet-heating appliance. No. 1,313,538; Aug. 19; v. 265; p. 369.
- Jones, George A. E., assignor to United States Electric Company, New London, Conn. Apparatus for heating rivets. No. 1,313,539; Aug. 19; v. 265; p. 369.
- Jones, George J. (See Partington and Jones.)
- Jones, George W. (See Strawn, Jesse C., assignor.)
- Jones, Harry, Suffern, N. Y., assignor to American Brake Shoe & Foundry Company, Mahwah, N. J. Brake-shoe. No. 1,313,540; Aug. 19; v. 265; p. 369.
- Jones, Harry C., Larchmont, N. Y. Focusing apparatus. No. 1,303,676; May 13; v. 262; p. 251.
- Jones, Hilles C., Allentown, N. J. Commutator. No. 1,318,208; Oct. 7; v. 267; p. 105.
- Jones, Horatio F., Danville, Pa. Implement-hitch. No. 1,326,271; Dec. 30; v. 269; p. 732.
- Jones, Horatio S., Kansas City, Mo. Syringe. No. 1,306,184; June 10; v. 263; p. 210.
- Jones, Howard B., assignor to Klix Manufacturing Company, Chicago, Ill. Tripod. No. 1,300,412; Apr. 15; v. 261; p. 456.
- Jones, Howard N., assignor of one-half to G. H. Cote, Providence, R. I. Self-opening die-holder. No. 1,316,619; Sept. 23; v. 266; p. 467.
- Jones, Hugh J., Denver, Colo. Safety-razor. No. 1,319,343; Oct. 21; v. 267; p. 407.
- Jones, Hugh J., Denver, Colo. Printing-machine. No. 1,319,959; Oct. 28; v. 267; p. 547.
- Jones, Isaac, Bessemer, Ala., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Gate-cutter and bead-former for pipe-molds. No. 1,304,060; May 20; v. 262; p. 360.
- Jones, J. M. (See Driver, Charles H., assignor.)
- Jones, J. M. (See Driver and Goetz, assignors.)
- Jones, Jacob, Ringling, Mont., assignor of one-half to T. Theis, Butte, Mont. Fishhook. No. 1,312,734; Aug. 12; v. 265; p. 197.
- Jones, Jacob, Ringling, assignor of one-fourth to R. V. Anderson, one-fourth to A. Nokes, and one-fourth to T. Theis, Butte, Mont. Live-bait hook. No. 1,323,394; Dec. 2; v. 268; p. 32.
- Jones, James A., Jackson, Tenn. Vehicle-spring. No. 1,292,331; Jan. 21; v. 258; p. 612.
- Jones, James A., Logansport, Ind. Pipe-wrench. No. 1,314,812; Sept. 2; v. 266; p. 63.
- Jones, James D., Dunnville, Ky. Metal roof construction. No. 1,297,178; Mar. 11; v. 260; p. 342.
- Jones, James E. (See Newdick, Norton A., assignor.)
- Jones, James F., assignor of one-third to S. F. Wallace, Akron, Ohio. Aeroplane. No. 1,290,836; Jan. 7; v. 258; p. 198.
- Jones, James H., Etowah, Tenn. Pipe-jack. No. 1,305,805; June 3; v. 263; p. 108.
- Jones, James H., Cleveland, Ohio. Rug and carpet cleaning machine. No. 1,314,813; Sept. 2; v. 266; p. 63.
- Jones, James R., and J. C. Culver, assignors of one-third to C. H. Smoot, Camden on Gauley, W. Va. Tool. No. 1,296,401; Mar. 4; v. 260; p. 132.
- Jones, Jennie, Winchester, Ky. Toaster. No. 1,300,975; Apr. 15; v. 261; p. 576.
- Jones, Joel W., Garrett, Tex. Cotton-seed-separating machine. No. 1,315,775; Sept. 9; v. 266; p. 246.
- Jones, John, Minneapolis, Minn. Roller-mill. No. 1,311,352; July 29; v. 264; p. 746.
- Jones, John A., Dallas, Tex. Garbage-can. No. 1,300,976; Apr. 15; v. 261; p. 576.
- Jones, John A., Mansfield, Ohio. Sash-lock. No. 1,303,677; May 13; v. 262; p. 252.
- Jones, John C., Brookline, Mass. Tire-holder. No. 1,326,739; Dec. 30; v. 269; p. 820.
- Jones, John D., Highland Park, Ill. Ventilated structure and block therefor. No. 1,302,667; May 6; v. 262; p. 35.
- Jones, John F., Keuterville, Idaho, assignor to Dupler Coupler Company. Automatic coupling. No. 1,324,741; Dec. 9; v. 269; p. 332.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Coating-machine. No. 1,309,858; July 15; v. 264; p. 407.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Attachment for coating-machines. No. 1,312,034; Aug. 5; v. 265; p. 35.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Wrapping process. No. 1,313,234; Aug. 12; v. 265; p. 296.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Coating apparatus. No. 1,317,138; Sept. 23; v. 266; p. 564.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Consecutive-printing apparatus. No. 1,326,062; Dec. 23; v. 269; p. 656.
- Jones, John M. (See Orbin, George, assignor.)
- Jones, John M., St. Joseph, Mo. Resilient tire. No. 1,313,541; Aug. 19; v. 265; p. 369.
- Jones, John R. (See Weston and Jones.)
- Jones, Joseph A., Loczells, Birmingham, England. Convertible table for type-writers or the like. No. 1,295,326; Feb. 25; v. 259; p. 635.



- Jones, Joseph E., Portsmouth, Ohio. Rim-applying machine. No. 1,316,042; Sept. 16; v. 266; p. 310.
- Jones, Joseph E., and J. E. Willis, Banning, Pa. Screw-bar nut. No. 1,325,892; Dec. 23; v. 269; p. 625.
- Jones, Joseph H., Covington, Tex. Demountable tire-rim. No. 1,291,537; Jan. 14; v. 258; p. 386.
- Jones, Joseph W., St. Louis, Mo. Metallic building structure. No. 1,311,820; July 29; v. 264; p. 833.
- Jones, Joseph W., assignor to Jones Motrola, Inc., New York, N. Y. Winding device for the spring-motors of talking-machines. No. 1,312,181; Aug. 5; v. 265; p. 62.
- Jones, Josiah A., Elmwood, Conn. Caster. No. 1,304,061; May 20; v. 262; p. 360.
- Jones, Llewelyn L., Battle Creek, Mich. Funnel. No. 1,313,386; Aug. 19; v. 265; p. 340.
- Jones, Lloyd, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Shear mechanism. No. 1,312,182; Aug. 5; v. 265; p. 62.
- Jones, Louis C., Syracuse, assignor to Somet-Solvay Company, Solvay, N. Y. Forming ammonia and air mixture. No. 1,307,739; June 24; v. 263; p. 562.
- Jones, Louis C., Syracuse, N. Y., and C. L. Parsons, Washington, D. C. Oxidizing ammonia and apparatus therefor. No. 1,321,376; Nov. 11; v. 268; p. 256.
- Jones, Luther E., Portland, Tenn. Injector-valve for waste-conveyers. No. 1,316,449; Sept. 16; v. 266; p. 387.
- Jones Motrola, Inc. (See Jones, Joseph W., assignor.)
- Jones, Nester L. (See Wilson, William G., assignor.)
- Jones, Newton A., et al. (See Simpson, Norman R., assignor.)
- Jones, Nonie L., Lamar, Colo. Teakettle attachment. No. 1,322,223; Nov. 25; v. 268; p. 707.
- Jones, Ora O., assignor of one-third to J. Burkhardt and one-third to A. G. de Clercq, Chicago, Ill. Electrical safety device. No. 1,314,332; Aug. 26; v. 265; p. 553.
- Jones, Owen H., Hartford, Conn. Ball-cock. No. 1,312,329; Aug. 5; v. 265; p. 88.
- Jones, Owen M., New York, N. Y. Valve. No. 1,303,801; May 13; v. 262; p. 275.
- Jones, Palmer J., and P. D. Schreiber, Port Washington, N. Y. Combination adjustable and convertible school desk and seat. No. 1,306,486; June 10; v. 263; p. 268.
- Jones, Paul R., Berkeley, assignor to Balfour, Guthrie & Co., San Francisco, Cal. Combined insecticide and fungicide. No. 1,291,013; Jan. 14; v. 258; p. 267.
- Jones, Pearl N., Pittsburgh, and J. W. Welsh, Oakmont, Pa. Control of electric motors. No. 1,312,183; Aug. 5; v. 265; p. 62.
- Jones-Powers Carburetor Company, The. (See Powers, John T., assignor.)
- Jones, Ralph W., Washington, D. C. Toy. No. 1,322,243; Nov. 18; v. 268; p. 469.
- Jones, Richard E., Hagerstown, Md. Fastener. No. 1,314,402; Aug. 26; v. 265; p. 567.
- Jones, Robert B., Montpelier, Vt., assignor to Jones Brothers Company, Boston, Mass. Grinding-machine and method. No. 1,290,224; Jan. 7; v. 258; p. 51.
- Jones, Robert D., Scranton, Pa. Self-closing ink-well. No. 1,298,219; Mar. 25; v. 260; p. 619.
- Jones, Robert M., Stony Point, assignor to Remington Typewriter Company, Ilion, N. Y. Type for writing-machines. No. 1,292,332; Jan. 21; v. 258; p. 612.
- Jones, Robert W., assignor of one-fourth to L. H. Howe and one-fourth to S. M. Walkinslaw, Wilkes-Barre, Pa. Apparatus for winding motion-picture films. No. 1,301,849; Apr. 29; v. 261; p. 816.
- Jones, Ruel A., Covington, Ky. Soap-pressing machine. No. 1,309,986; July 15; v. 264; p. 431.
- Jones, Russell C., Garden City, N. Y., assignor to The Grisco-Russell Company, Evaporator. No. 1,299,955; Apr. 8; v. 261; p. 332.
- Jones, Samuel M., North Adams, Mass. Mercerization. No. 1,316,958; Sept. 23; v. 266; p. 530.
- Jones, Samuel S., Brooklyn, N. Y. Wireless detector. No. 1,290,755; Jan. 7; v. 258; p. 179.
- Jones Signal System Company. (See Jones, Elmer M., assignor.)
- Jones, Silas R., assignor of one-half to C. M. Wolfe, Coeburn, Va. Wire-splice. No. 1,291,538; Jan. 14; v. 258; p. 386.
- Jones, Stuart A., Bessemer, Ala. Stove. No. 1,326,740; Dec. 30; v. 269; p. 820.
- Jones, Thomas L. (See Scruggs, and Jones.)
- Jones, Thomas W., Bicknell, Ind. Safety-elevator. No. 1,301,791; Apr. 22; v. 261; p. 776.
- Jones, W. E., et al. (See Graf, Sydney H., assignor.)
- Jones, Walter A. (See De Vaughn, Harry E., assignor.)
- Jones, Walter A. (See Waggoner, Chauncey W., assignor.)
- Jones, Walter A., Falls City, Nebr. Boiler tube and sheet joint. No. 1,313,542; Aug. 19; v. 265; p. 370.
- Jones, Walter A., Morgantown, W. Va. Glass-drawing tank. No. 1,321,752; Nov. 11; v. 268; p. 327.
- Jones, Walter P. (See Weatherly, William G., assignor.)
- Jones, Walter S., New York, N. Y. Water-motor. No. 1,306,487; June 10; v. 263; p. 268.
- Jones, Warren G., Chicago, Ill. Speed-reducing mechanism. No. 1,323,985; Dec. 2; v. 269; p. 143.
- Jones, Whitney B., Newark, N. J., assignor to Butterworth-Judson Corporation. Brown dyestuff. No. 1,310,532; July 22; v. 264; p. 561.
- Jones, William. (See Bulman, Smith, and Jones.)
- Jones, William A. (See Jacobus and Jones.)
- Jones, William C., Niantic, Ill. Rake. No. 1,318,765; Oct. 14; v. 267; p. 272.
- Jones, William H. (See Davies and Jones.)
- Jones, William M., Checotah, Okla. Hair-spring-collet remover. No. 1,303,560; May 13; v. 262; p. 230.
- Jones, William R., Summitville, Ind. Radiator. No. 1,300,172; Apr. 8; v. 261; p. 379.
- Jönköpings Mekaniska Werkstads Aktiebolag, Motor-fabriken. (See Nilsson, Fritz A., assignor.)
- Jooss, William R., Cleveland, Ohio. Combination-tool. No. 1,321,312; Nov. 11; v. 268; p. 244.
- Jopson, William G., Abington, assignor to Anglo-American Textile Machinery Company, Boston, Mass. Pneumatic separator. No. 1,311,973; Aug. 5; v. 265; p. 23.
- Jordan, Bennett W., Mullins, assignor of one-half to H. L. Buck, Horry county, S. C. Automatic heat and cold regulator alarm. No. 1,312,123; Aug. 5; v. 265; p. 61.
- Jordan, Clyde E., Trego, Mont. Can opener and sealer. No. 1,295,902; Mar. 4; v. 260; p. 19.
- Jordan, Coulter, Wichita, Kans. Automobile-chain regulator. No. 1,299,837; Apr. 8; v. 261; p. 307.
- Jordan, Fred A., assignor to Moose Mountain, Limited, Sellwood, Ontario, Canada. Briquetting apparatus. No. 1,304,185; May 20; v. 262; p. 383.
- Jordan, Fred A., assignor to Moose Mountain, Limited, Sellwood, Ontario, Canada. Briquetting. No. 1,304,186; May 20; v. 262; p. 383.
- Jordan, Frederick G., Cement, Wash. Reinforcing element for cement and concrete work. No. 1,294,278; Feb. 11; v. 259; p. 335.
- Jordan, Frederick G., Cement, Wash. Reinforced cement or concrete ship construction. No. 1,296,809; Mar. 11; v. 260; p. 259.
- Jordan, Frederick G., Cement, Wash. Reversible reinforced concrete and asphalt composition paving-flag. No. 1,326,741; Dec. 30; v. 269; p. 821.
- Jordan, Frederick G., Cement, Wash. Machine for manufacturing paving-flags. No. 1,326,742; Dec. 30; v. 269; p. 821.
- Jordan, James P., Big Oak Flat, Calif. Railway-switch. No. 1,322,308; Nov. 18; v. 268; p. 481.
- Jordan, James W., Williamsburg, Ky. Dust-excluder. No. 1,298,347; Mar. 25; v. 260; p. 645.
- Jordan, John W., Philadelphia, Pa. Terminal connector. No. 1,310,661; July 22; v. 264; p. 585.
- Jordan, Leonard C., Morsemere, N. J. Roof for box-cars. No. 1,298,220; Mar. 25; v. 260; p. 619.
- Jordan, Linwood F., Portland, Me. Removable wheel-rim. No. 1,299,352; Apr. 1; v. 261; p. 167.
- Jordan, Paul R., Indianapolis, Ind. Ventilator-cowl. No. 1,325,947; Dec. 23; v. 269; p. 634.
- Jordan, Robert E., assignor to The Allbright-Nell Company, Chicago, Ill. Hog scalding, debairing, and cleaning machine. No. 1,301,450; Apr. 22; v. 261; p. 709.
- Jordan, Royal B. (See Collins and Jordan.)
- Jordon, Fred D., assignor to E. R. Hackett, Farmington, Me. Gas-generator. No. 1,319,344; Oct. 21; v. 267; p. 408.
- Jorgensen, Aage E., Eureka, Calif. Toy. No. 1,321,049; Nov. 4; v. 268; p. 130.
- Jorgensen, Carl U., Copenhagen, Denmark. Treating pyrolusite. No. 1,303,911; May 20; v. 262; p. 333.
- Jorgensen, Cleah and J. J., assignors of one-third to W. R. Little, Portland, Oreg. Roller-skate. No. 1,299,578; Apr. 8; v. 261; p. 247.
- Jorgensen, John J. (See Jorgensen, Cleah and J. J.)
- Jorgensen, John. (See Heller and Jorgensen.)
- Jorgensen, William. (See Hutton and Jorgensen.)
- Jory, George W., Marysville, Calif. Attachment for harvesters and other agricultural machines. No. 1,309,689; July 15; v. 264; p. 377.
- Joseph, Albert A. (See Hage, Frank J., assignor.)
- Joseph, Carl, Bayonne, assignor of one-half to F. J. Kloos, Jersey City, N. J. Hollow slat for window-shades. No. 1,303,678; May 13; v. 262; p. 252.
- Joseph Dick Manufacturing Company, The. (See Dick, Joseph, assignor.)
- Joseph, Edmond C., Garyville, La. Caster. No. 1,305,547; June 3; v. 263; p. 60.
- Joseph Lay Company, The. (See Lay and Baker, assignors.)
- Joseph M. Fornaris and Co. (See Blardone, George, assignor.)
- Joseph N. Smith & Co. (See Rehdorf, Louis, assignor.)
- Joseph N. Smith & Co. (See Zwierzina, Alois, assignor.)
- Joseph Stokes Rubber Company. (See Boyer, Harry L., assignor.)
- Joseph W. Schloss Company. (See Schloss, Joseph W., assignor.)
- Josephs, Gustavus. (See Josephs and Berlizheimer, assignors.)
- Josephs, Jean, and D. T. Berlizheimer, assignors of one-third to G. Josephs, Philadelphia, Pa. Quill-wrapping machine. No. 1,298,221; Mar. 25; v. 260; p. 619.
- Josephson, Archie, et al. (See Haskins, Butler J., assignor.)
- Josephson, Harry. Bridgeport, Conn. Coal-bag. No. 1,291,539; Jan. 14; v. 258; p. 387.
- Josephson, Henry, Cleveland, Ohio. Brake-operating mechanism. No. 1,317,503; Sept. 30; v. 266; p. 669.



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- Josephson, Henry, Cleveland, Ohio. Brake mechanism. No. 1,318,497; Oct. 14; v. 267; p. 221.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Collapsible core for paper-rolls. No. 1,317,166; Sept. 30; v. 266; p. 606.
- Joslin, William H., South Scituate, R. I. Box. No. 1,291,540; Jan. 14; v. 258; p. 387.
- Joss, Frederick E. (See Davis and Joss.)
- Joss, Frederick E., Brooklyn, N. Y., assignor to Lektophone Corporation. Talking-machine. No. 1,318,083; Oct. 7; v. 267; p. 80.
- Josse, J. C., et al. (See Reusz, Maximilian J., assignor.)
- Jouffret, Henri V. J., Paris, France. Internal-combustion engine. No. 1,318,209; Oct. 7; v. 267; p. 105.
- Jouffret, Henri V. J., Neuilly-sur-Seine, France. Sparking plug. No. 1,325,405; Dec. 16; v. 269; p. 517.
- Joule, William, assignor to The Nairn Linoleum Company, Kearney, N. J. Linoleum-rug manufacture. No. 1,310,346; July 15; v. 264; p. 495.
- Jowett, John. (See Cook, Leigh, and Jowett.)
- Joy, Christopher C., Fort Huachuca, Ariz. Cushion-tire. No. 1,322,452; Nov. 18; v. 268; p. 509.
- Joy, Joseph F., North Belle Vernon, Pa. Gathering mechanism for coal-loading machines. No. 1,295,173; Feb. 25; v. 259; p. 600.
- Joy, Joseph F., Belle Vernon, Pa. Gathering mechanism for coal-loading machines. No. 1,300,620; Apr. 15; v. 261; p. 500.
- Joy, Joseph F., Belle Vernon, assignor to Joy Machine Company, Pittsburgh, Pa. Gathering mechanism for coal-loading machines. No. 1,307,009; June 17; v. 263; p. 396.
- Joy, Joseph F., Columbus, Ohio, assignor to Joy Machine Company, Pittsburgh, Pa. Loading-machine. No. 1,306,064; June 10; v. 263; p. 187.
- Joy, Leonard. (See Hartman and Joy.)
- Joy Machine Company. (See Joy, Joseph F., assignor.)
- Joy, Maynard T., New York, N. Y. Register-guide and gripper. No. 1,305,904; June 3; v. 263; p. 127.
- Joy, Robert, Oswego, N. Y. Fire-box for boilers. No. 1,320,236; Oct. 28; v. 267; p. 599.
- Joyce-Cridland Company, The. (See Derby, Charles D., assignor.)
- Joyce-Cridland Co. (See Ripsch, Charles W., assignor.)
- Joyce, Ernest F., Woking, England. Means for locking nuts, bolts, and the like. No. 1,320,475; Nov. 4; v. 268; p. 22.
- Joyce, George A., London, England. Molding of the metal mounts of diamond-tools. No. 1,314,814; Sept. 2; v. 266; p. 64.
- Joyce, James M., assignor of one-third to J. D. Hunter and one-third to J. C. Dixon, Amarillo, Tex. Vise for drilling-machines. No. 1,315,509; Sept. 9; v. 266; p. 199.
- Joyce, Michael J., Chicago, assignor of one-half to G. Thompson, Oak Park, Ill. Door for grain-cars. No. 1,301,704; Apr. 22; v. 261; p. 757.
- Joyce, Stephen V., New York, N. Y. Chute for proportioning and forwarding materials. No. 1,313,852; Aug. 19; v. 265; p. 328.
- Joyce, William P., New Orleans, La. Arithmetical practicing cards. No. 1,323,986; Dec. 2; v. 269; p. 144.
- Juarez, José S., Mexico, Mexico. Resilient tire. No. 1,295,903; Mar. 4; v. 260; p. 19.
- Judefind, William L. (See Lovelace, Lanning, and Judefind.)
- Judelshon, Oscar I., Brooklyn, N. Y. Protector for mechanism. No. 1,301,947; Apr. 29; v. 261; p. 835.
- Judelshon, Oscar I., New York, N. Y. Protector for transmitting mechanism. No. 1,326,202; Dec. 30; v. 269; p. 719.
- Judge, Fred, Hastings, England. Camera for composite heliograph. No. 1,312,694; Aug. 12; v. 265; p. 189.
- Judson Governor Company. (See Osborne, John L., assignor.)
- Judson, Oscar H., Cleveland, Ohio, assignor to The Barrett Company. Spraying-nozzle. No. 1,293,108; Feb. 4; v. 259; p. 32.
- Judy, Andrew W., assignor of one-third to G. M. Barnett, Centerville, Iowa. Coupling. No. 1,302,806; May 6; v. 262; p. 61.
- Juel, Carl E. H., Parkersburg, Iowa. Guard for drain-line terminals. No. 1,318,084; Oct. 7; v. 267; p. 80.
- Juell, Nils, Minneapolis, Minn. Automobile-door. No. 1,295,514; Feb. 25; v. 259; p. 679.
- Juelson, Edwin, Chicago, Ill. Tent-stake. No. 1,304,779; May 27; v. 262; p. 535.
- Juengst, Charles A., Croton Falls, N. Y., assignor, by mesne assignments, to American Assembling Machine Company. Delivery mechanism. No. 1,313,487; Aug. 19; v. 265; p. 359.
- Juergens, Ernest, Taylor, Tex. Tool-heater. No. 1,319,288; Oct. 21; v. 267; p. 397.
- Juhlin, Gustaf A., Sale, England, assignor to Westinghouse Electric and Manufacturing Company. Exciting system for booster interpole rotary converters. No. 1,323,288; Dec. 2; v. 269; p. 12.
- Julian, Marsena R., Birmingham, Ala. Contact device. No. 1,318,566; Oct. 14; v. 267; p. 234.
- Julian, Marsena R., Birmingham, Ala. Train-control system. No. 1,322,023; Nov. 18; v. 268; p. 428.
- Julich, Herman, New Rochelle, N. Y. Uniform-cap. No. 1,290,570; Jan. 7; v. 258; p. 134.
- Julich, Herman, New Rochelle, N. Y. Straw cap. No. 1,291,014; Jan. 14; v. 258; p. 264.
- Julien, Albert, Stillwater, Minn. Potato-bug destroyer. No. 1,320,237; Oct. 28; v. 267; p. 599.
- Julien, Cyprien E. P., Paris, France. Rotary drilling or sowing machine. No. 1,304,321; May 20; v. 262; p. 409.
- Julien, Cyprien E. P., Paris, France. Vehicle-wheel tire. No. 1,323,868; Dec. 2; v. 269; p. 121.
- Julien, Joseph C. (See Folger and Julien.)
- Julihn, Louis G. (See Culverwell, Joseph F., assignor.)
- Jullus Kayser & Co. (See Bloom, Benjamin, L., assignor.)
- Jung, Alfred J., Kingston-on-Thames, England. Internal-combustion motor. No. 1,324,159; Dec. 9; v. 269; p. 220.
- Jung, Henry, Norwood, Ohio. Machine-reamer. No. 1,324,553; Dec. 9; v. 269; p. 297.
- Jungbluth, Carl J. (See Knott, Jungbluth, and Hammer.)
- Jungclas, Edward H., Cincinnati, Ohio. Aircraft-anchor. No. 1,316,620; Sept. 23; v. 266; p. 468.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,301,705; Apr. 22; v. 261; p. 757.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,310,022; July 15; v. 264; p. 437.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,326,867; Dec. 30; v. 269; p. 845.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,326,868; Dec. 30; v. 269; p. 845.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,326,869; Dec. 30; v. 269; p. 845.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,326,870; Dec. 30; v. 269; p. 845.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,326,871; Dec. 30; v. 269; p. 845.
- Junghans, Ernest, Anaconda, Mont. Dump-car. No. 1,297,356; Mar. 18; v. 260; p. 410.
- Junghans, Ernest, assignor of one-fourth to W. N. Tanner and one-fourth to W. C. Capron, Anaconda, Mont. Dump-car. No. 1,305,118; May 27; v. 262; p. 598.
- Junghans, Oskar, Schramberg, Germany. Pocket-lamp generator. No. 1,303,068; May 6; v. 262; p. 112.
- Jungk, Ernst V., Brooklyn, N. Y. Gas attachment for oil-stoves. No. 1,322,453; Nov. 18; v. 268; p. 509.
- Jungk, Herbert G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,323,289; Dec. 2; v. 269; p. 12.
- Junior Monarch Hay Press Co. (See Miller and Toffelmier, assignors.)
- Junker, Charles, Milwaukee, Wis. Cheese-curd mill. No. 1,309,525; July 8; v. 264; p. 308.
- Junkers, Hugo, Aachen, Germany, assignor, by mesne assignments, to L. M. Wheelock, Boston, Mass. Internal-combustion engine. No. 1,320,062; Oct. 28; v. 267; p. 567.
- Junkers, Hugo, Aachen, Germany, assignor, by mesne assignments, to L. M. Wheelock, Boston, Mass. Valve-gear for the injection valves of combustion power-engines. No. 1,320,063; Oct. 28; v. 267; p. 567.
- Junkers, Hugo, Aachen, Germany, assignor, by mesne assignments, to L. M. Wheelock, Boston, Mass. Piston for internal-combustion engines. No. 1,320,064; Oct. 28; v. 267; p. 567.
- Junkunc, John, Chicago, Ill. Automobile-lock. No. 1,326,404; Dec. 30; v. 269; p. 756.
- Jurach, Nikola. (See Hawrylasz, Nikiyor, assignor.)
- Jurgensen, August P., New York, N. Y. Shutter for motion-picture machines. No. 1,299,956; Apr. 8; v. 261; p. 332.
- Juricek, John V., Crete, Nebr. Trap. No. 1,315,510; Sept. 9; v. 266; p. 199.
- Jurich, Paul, Donora, Pa. Chisel. No. 1,321,272; Nov. 11; v. 268; p. 236.
- Jurv, Alfred E., New York, N. Y., assignor to National India Rubber Company. Adhesive material. No. 1,292,333; Jan. 21; v. 258; p. 612.
- Just, Alvah L., Syracuse, N. Y. Dust-cap. No. 1,322,905; Nov. 25; v. 268; p. 645.
- Just, John H., Syracuse, N. Y. Valve-grinder. No. 1,313,601; Aug. 19; v. 265; p. 381.
- Justrite Manufacturing Company. (See Hansen, Augle L., assignor.)
- Jutila, Artturi, Duluth, Minn. Resilient wheel. No. 1,301,570; Apr. 22; v. 261; p. 730.
- Jutkins, Edgar M., La Junta, Colo. Safety-window for locomotive-cabs. No. 1,324,120; Dec. 9; v. 269; p. 213.
- Juve, Walter H., and H. A. Hoffman, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Reinforced hard-rubber pipe. No. 1,314,670; Sept. 2; v. 266; p. 38.
- K. & T. Chemical Corporation. (See Kitchen, Frederick T., assignor.)
- K-W. Ignition Company, The. (See Karkau, Albert G., assignor.)
- Kaar, Eugene R., Galva, Ill. Cantaliver-spring for automobiles. No. 1,296,294; Mar. 4; v. 260; p. 109.



- Kaarbo, Agnar, Cleveland, Ohio. Welded-steel barrel and method of making same. No. 1,313,387; Aug. 19; v. 265; p. 340.
- Kaas, Harald, Christiania, Norway. Plant for automatically assorting wooden materials and the like according to their sizes. No. 1,298,510; Mar. 25; v. 260; p. 682.
- Kabakjian, Dieran H., Lansdowne, Pa. Impregnation of water with radium emanations. No. 1,309,139; July 8; v. 264; p. 237.
- Kaber, Daniel, Cleveland, Ohio. Transfer-sign. No. 1,299,353; Apr. 1; v. 261; p. 167.
- Kabo Corset Company. (See Keller, Herman A., assignor.)
- Kaczmarczyk, Joseph, Detroit, Mich. Automobile-fender. No. 1,320,476; Nov. 4; v. 268; p. 22.
- Kaczmaryk, Michael, Pottsville, assignor of one-third to S. Stefanko, Glen Carbon, Pa. Lamp. No. 1,325,155; Dec. 16; v. 269; p. 471.
- Kaczmaryk, Mike, Glen Carbon, Pa. Combined bayonet and wire-cutter. No. 1,297,571; Mar. 18; v. 260; p. 454.
- Keddatz, Emil, Ortonville, Minn. Milk-tester. No. 1,293,793; Feb. 11; v. 259; p. 221.
- Kadel, Evers W., Roanoke, Va., assignor to The American Brake Company, St. Louis, Mo. Brake arrangement for car-trucks. No. 1,305,468; June 3; v. 263; p. 45.
- Kadel, Evers W., J. A. Ficher, R. H. Persinger, and R. W. Reynolds, Roanoke, Va. Draft attachment for railway-cars. No. 1,325,156; Dec. 16; v. 269; p. 471.
- Kadish, Halbert L. (See Kadish, Victor H. and H. L.)
- Kadish, Victor H. and H. L., Milwaukee, Wis. Continuous process of forming fertilizer material. No. 1,298,960; Apr. 1; v. 261; p. 79.
- Kadow, August, assignor to The Westlake Machine Company, Toledo, Ohio. Mechanism for effecting spindle movements in glass-forming apparatus. No. 1,315,130; Sept. 2; v. 266; p. 119.
- Kaefer, John. (See Van Wormer, George, assignor.)
- Kaelin, Henry F. (See Weed, William L., assignor.)
- Kacppler, Francis O., Los Angeles, Calif. Curtain-window. No. 1,304,322; May 20; v. 262; p. 409.
- Kaestner, Louis W., Chicago, Ill. Toilet-article carrier. No. 1,295,174; Feb. 25; v. 259; p. 600.
- Kafka, Frederick P., New Rochelle, N. Y. System or method of concrete fireproofing structural steel. No. 1,306,700; June 17; v. 263; p. 340.
- Kafka, Frederick P., New Rochelle, N. Y. System or method of concrete fireproofing structural steel. No. 1,306,701; June 17; v. 263; p. 340.
- Kagay, Jesse S., Richwood, Ohio. Trip-hitch and shock-absorber. No. 1,323,634; Dec. 2; v. 269; p. 77.
- Kageyama, Hosaku, Los Angeles, Calif. Electrical direction-indicator. No. 1,304,573; May 27; v. 262; p. 497.
- Kahl, Arthur R., Withington, Manchester, England. Telephone-transmitter. No. 1,291,911; Jan. 21; v. 258; p. 508.
- Kahl, Edmund J., Wallingford, Conn. Insulated handle. No. 1,297,861; Mar. 18; v. 260; p. 517.
- Kahl, John F., Brooklyn, N. Y. Flying-machine. No. 1,296,089; Mar. 4; v. 260; p. 62.
- Kahle, Dorsey P., Venus, Pa. Steering mechanism for wheels. No. 1,324,399; Dec. 9; v. 269; p. 267.
- Kable, Gottlieb L., Bohemia, N. Y. Engine-starter. No. 1,314,403; Aug. 26; v. 265; p. 568.
- Kahlenberg Brothers Company. (See Kahlenberg, William R., assignor.)
- Kahlenberg, William R., assignor to Kahlenberg Brothers Company, Two Rivers, Wis. Reversible starter for internal-combustion engines. No. 1,312,402; Aug. 5; v. 265; p. 102.
- Kahn, Albert, Detroit, Mich., assignor to Truscon Steel Company, Youngstown, Ohio. Building. No. 1,319,090; Oct. 21; v. 267; p. 359.
- Kahn, Arthur J., New York, N. Y. Spool-holder. No. 1,321,050; Nov. 4; v. 268; p. 131.
- Kahn, Bertrand B., Cincinnati, Ohio. Fuel-tank. No. 1,309,526; July 8; v. 264; p. 308.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Electric heater. No. 1,304,687; May 27; v. 262; p. 518.
- Kahn, Bertrand B., Cincinnati, and E. W. Hake, assignors to The Estate Stove Company, Hamilton, Ohio. Clean-out device for furnaces. No. 1,319,223; Oct. 21; v. 267; p. 385.
- Kahn, Julius, Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Window-frame. No. 1,292,795; Jan. 28; v. 258; p. 743.
- Kahn, Julius, assignor to United Metal Hose Company, Inc., New York, N. Y. Steam-hose. No. 1,314,333; Aug. 26; v. 265; p. 554.
- Kahn, Julius, assignor to Truscon Steel Company, Youngstown, Ohio. Sash construction. No. 1,319,091; Oct. 21; v. 267; p. 359.
- Kahn, Moritz, Westminster, London, England. Metal fabric for use in ferroconcrete construction. No. 1,296,402; Mar. 4; v. 260; p. 132.
- Kahn, Samuel, Newark, N. J. Combined blow-off and hose connection for tires. No. 1,299,398; Apr. 1; v. 261; p. 177.
- Kahn, Walter D., New York, N. Y., assignor to Import Sales Company. Portable electric light. No. 1,315,556; Sept. 9; v. 266; p. 207.
- Kahrs, Otto, Christiania, Norway. Driving arrangement for pivoted ships' derricks. No. 1,311,234; July 29; v. 264; p. 724.
- Kailer, Harvey E., Aurora, Ill. Means for bracing the chassis-frames, running-boards, and fenders of automobiles. No. 1,295,904; Mar. 4; v. 260; p. 19.
- Kaiser, Alvin L., Monona, Iowa. Tank-heater. No. 1,322,024; Nov. 18; v. 268; p. 428.
- Kaiser, Charles W., Newark, N. J. Building-block. No. 1,316,307; Sept. 16; v. 266; p. 360.
- Kaiser, Emanuel W., Newark, N. J. Bottle-closure. No. 1,324,354; Dec. 9; v. 269; p. 258.
- Kaiser, George H., Portland, Oreg. Scale. No. 1,316,043; Sept. 16; v. 266; p. 310.
- Kaiser, George W., Deming, N. Mex. Pulling device. No. 1,323,395; Dec. 2; v. 269; p. 32.
- Kaiser, Henry, New Holstein, Wis. Draft appliance to prevent shock. No. 1,305,651; June 3; v. 263; p. 80.
- Kaiser, Jacob W., Cleveland, Ohio. Fastening device. No. 1,295,515; Feb. 25; v. 259; p. 679.
- Kaiser, Richard C., New Rochelle, and N. J. Miano, New York, N. Y.; said Miano assignor to said Kaiser. Display device. No. 1,313,897; Aug. 26; v. 265; p. 469.
- Kaiser, Robert H., Chicago, Ill. Headlight. No. 1,303,328; May 13; v. 262; p. 188.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Electrical switch. No. 1,293,794; Feb. 11; v. 259; p. 221.
- Kaisling, William, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Combination ignition and lighting switch. No. 1,294,342; Feb. 11; v. 259; p. 349.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Calling device. No. 1,304,062; May 20; v. 262; p. 361.
- Kaisling, William, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Heat element for engine-manifolds. No. 1,310,535; July 22; v. 264; p. 561.
- Kaisling, William, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Signaling device. No. 1,323,696; Dec. 2; v. 269; p. 88.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Circuit-breaker relay. No. 1,324,452; Dec. 9; v. 269; p. 278.
- Kajanus, Abraham, Virginia, Minn. Spring-wheel. No. 1,303,329; May 13; v. 262; p. 189.
- Kakaska, Henry W., Bismarck, N. D. Shock-absorber. No. 1,319,873; Oct. 28; v. 267; p. 532.
- Kalamazoo Loose Leaf Binder Co. (See Wigginton, George P., assignor.)
- Kalata, Frank, Springfield, Ill. Mine-drill. No. 1,305,219; May 27; v. 262; p. 618.
- Kalbperry Corporation. (See Hollister, Harry E., assignor.)
- Kalbfeisch Corporation, The. (See Kee, William J., assignor.)
- Kalbperry Corporation. (See Hollister, Harry E., assignor.)
- Kalemba, Jan, Sun, W. Va. Rail-bender. No. 1,314,334; Aug. 26; v. 265; p. 554.
- Kales, Albert B. (See Mohr, Michel, assignor.)
- Kaletay, Joseph F., New York, N. Y. Dispensing-faucet. No. 1,302,877; Apr. 29; v. 261; p. 916.
- Kalicki, Walenty, Grafton, Ohio. Window-operating device. No. 1,315,966; Sept. 16; v. 266; p. 296.
- Kalina, Loeser, New York, N. Y. Woman's garment. No. 1,313,697; Aug. 19; v. 265; p. 398.
- Kallajian, Lazarus S., Boston, Mass. Telephone-receiver holder. No. 1,319,774; Oct. 28; v. 267; p. 512.
- Kallestad, Linus O., Minneapolis, Minn. Control mechanism for automobiles. No. 1,315,511; Sept. 9; v. 266; p. 199.
- Kallner, Gustave, Spring Valley, Ill. Portable internal-combustion engine. No. 1,325,473; Dec. 16; v. 269; p. 529.
- Kalma, Steve, Braddock, Pa. Trolley. No. 1,312,076; Aug. 5; v. 265; p. 42.
- Kalmus, Comstock & Westcott. (See Wall, Edward J., assignor.)
- Kam, W. C. (See Kong and Kam.)
- Kamada, Jirobei, Tokyo Fu, Japan. Rosin-collector. No. 1,321,051; Nov. 4; v. 268; p. 131.
- Kambe, Ernest C. (See Loomis, Alva S., assignor.)
- Kammer, August B., Clifton, N. Y., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Dispensing-bottle. No. 1,316,723; Sept. 23; v. 266; p. 487.
- Kampfe Bros. (See Groschopp, William F., assignor.)
- Kampfe, Otto, Bellmore, N. Y., assignor of one-half to H. C. Walker, Boston, Mass. Trap. No. 1,326,662; Dec. 30; v. 269; p. 805.
- Kampmann, Gerhardt S. R., Tegall, Java, Dutch East Indies. Device for sharpening safety-razor blades. No. 1,324,121; Dec. 9; v. 269; p. 213.
- Kandler, Edmund, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic test-lens tray. No. 1,297,357; Mar. 18; v. 260; p. 410.
- Kandt, Fred W. (See McLean, Daniel W., assignor.)
- Kane, Anna G. (See Kane, Patrick, assignor.)
- Kane, Edmund J. (See Johnston and Kane.)



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- Kane, Edmund J., Chicago, Ill. Driving mechanism for motor-vehicles. No. 1,306,065; June 10; v. 263; p. 187.
- Kane, Edmund J., Chicago, Ill. Driving mechanism for motor-vehicles. No. 1,306,227; June 10; v. 263; p. 218.
- Kane, Ida L., Chicago, Ill. Belt or girdle. No. 1,303,562; May 13; v. 262; p. 231.
- Kane, James E., Martins Ferry, Ohio. List-removing device. No. 1,292,474; Jan. 28; v. 258; p. 666.
- Kane, James E., and J. Rose, Yorkville, Ohio. Conveyer. No. 1,298,348; Mar. 25; v. 260; p. 645.
- Kane, Joseph F. (See Anderson and Kane.)
- Kane, Patrick, assignor to A. G. Kane, Bruno, Minn. Loader. No. 1,301,706; Apr. 22; v. 261; p. 757.
- Kane, Patrick H., Buffalo, N. Y. Aerial projectile. No. 1,298,222; Mar. 25; v. 260; p. 620.
- Kanegafuchi Boseki Kabushiki Kwaisha. (See Muto, Tomonosuke, assignor.)
- Kaneve, Sidney, Poleyet, Ontario, Canada. Rotary tooth-brush. No. 1,325,498; Dec. 16; v. 269; p. 533.
- Kangieser, Henry, Vya, Nev. Necktie-presser. No. 1,302,807; May 6; v. 262; p. 62.
- Kann, Ralph G. (See Kann, William L. and R. G.)
- Kann, William L. (See Fenchelle, Hugh E., assignor.)
- Kann, William L., trustee. (See Fenchelle, Hugh E., assignor.)
- Kann, William L. and R. G., Pittsburgh, Pa. Grading and supplying system for abrasives. No. 1,321,528; Nov. 11; v. 268; p. 284.
- Kano, Tatsuzo, et al. (See Yamamoto, Yoshitaro, assignor.)
- Kanode, Charles E., Charleston, S. C. Chair attachment. No. 1,317,580; Sept. 30; v. 266; p. 685.
- Kansas City Gasoline Company, The. (See Wellman, Frank E., assignor.)
- Kansas City Metal Head Dishing Machine Company. (See Griffin, Alvah M., assignor.)
- Kansas City Refining Company, The. (See Lasher, Henry M., assignor.)
- Kansky, Joseph W., Meota, Saskatchewan, Canada. Ventilator. No. 1,303,802; May 13; v. 262; p. 275.
- Kanster, Jacob, assignor of one-third to T. J. Walsh and one-third to F. Walsh, Newark, N. J. Hinge. No. 1,311,651; July 29; v. 264; p. 802.
- Kaplan, Barnett I., New York, N. Y. Corset-cover. No. 1,299,957; Apr. 8; v. 261; p. 332.
- Kaplan, Henry, assignor to Long Manufacturing Company, San Francisco, Cal. Automobile-robe lock. No. 1,293,109; Feb. 4; v. 259; p. 32.
- Kaplan, Henry, assignor to Long Manufacturing Company, San Francisco, Calif. Tire or rim carrier. No. 1,305,220; May 27; v. 262; p. 618.
- Kaplan, Hyman, New York, N. Y. Tire. No. 1,300,731; Apr. 15; v. 261; p. 524.
- Kaplan, Jacob, and I. Lack, Brooklyn, N. Y. Valve. No. 1,301,948; Apr. 29; v. 261; p. 835.
- Kaplan, Ladislav, Clinton, Conn. Calipers. No. 1,295,327; Feb. 25; v. 259; p. 635.
- Kaplan, Ladislav, Clinton, Conn. Calipers. No. 1,317,708; Oct. 7; v. 267; p. 9.
- Kaplan, Max, New York, N. Y. Artificial wreath. No. 1,320,693; Nov. 4; v. 268; p. 62.
- Kaplan, Morduch L., Brooklyn, N. Y. Preparing manganese peroxid. No. 1,293,461; Feb. 4; v. 259; p. 113.
- Kaplan, Morduch L., Brooklyn, N. Y. Galvanic cell. No. 1,293,462; Feb. 4; v. 259; p. 113.
- Kaplan, Morduch L., Brooklyn, N. Y. Galvanic cell. No. 1,293,463; Feb. 4; v. 259; p. 113.
- Kaplan, Morduch L., Brooklyn, N. Y., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Flash-light. No. 1,311,899; Aug. 5; v. 265; p. 9.
- Kappelhoff, John C., St. Paul, Minn. Bottle-capping machine. No. 1,296,810; Mar. 11; v. 260; p. 259.
- Kappertz, Leo, Morristown, N. J. Automobile-radiator. No. 1,321,052; Nov. 4; v. 268; p. 181.
- Kar Engineering Company, The. (See Karasick, Samuel, assignor.)
- Karabin, Michael, and J. Skociokh, New Britain, Conn. Collar-button. No. 1,306,850; June 17; v. 263; p. 367.
- Karadaghli, Ehsan, Chatham, N. J. Hose-clasp. No. 1,307,129; June 17; v. 263; p. 418.
- Karadaghli, Ehsan, Chatham, N. J. Grade-finder. No. 1,307,130; June 17; v. 263; p. 418.
- Karafas, Stelios, Baltimore, Md. Motor attachment for ships. No. 1,293,110; Feb. 4; v. 259; p. 32.
- Karasch, Mike F., Independence, Wis. Auto-lock. No. 1,316,450; Sept. 16; v. 266; p. 387.
- Karasevich, Jouzas, South Amboy, N. J. Combination gun and wire-cutter. No. 1,302,668; May 6; v. 262; p. 35.
- Karasevich, Jouzas, assignor of one-half to F. Zadorozny, South Amboy, N. J. Sash-holder. No. 1,321,214; Nov. 11; v. 268; p. 225.
- Karasick, Samuel, assignor to The Kar Engineering Company, New York, N. Y. Fixture for use with magnetic chucks. No. 1,301,135; Apr. 22; v. 261; p. 647.
- Karasick, Samuel, assignor to the Kar Engineering Company, New York, N. Y. Fixture for magnetic chucks. No. 1,312,546; Aug. 12; v. 265; p. 160.
- Karbuab Company. (See Abbey, Charles P., assignor.)
- Karbuab Company. (See Karthelser, John J., assignor.)
- Kardell, Henry W., St. Louis, Mo., assignor to Kardell Tractor & Truck Company. Traction-wheel. No. 1,318,880; Oct. 14; v. 267; p. 294.
- Kardell Tractor & Truck Company. (See Kardell, Henry W., assignor.)
- Karfiol, Edward, Brooklyn, N. Y. Lamp-shade. No. 1,310,347; July 15; v. 264; p. 495.
- Karg, Frank E., Youngstown, Ohio. Electric heater. No. 1,316,161; Sept. 16; v. 266; p. 332.
- Karitzky, Fred, Garwood, N. J., assignor to Garwood Company. Bolt-anchor. No. 1,326,663; Dec. 30; v. 269; p. 806.
- Karitzky, John, Garwood, N. J., assignor to Garwood Company. Toggle. No. 1,291,541; Jan. 14; v. 258; p. 387.
- Karitzky, John, Garwood, N. J., assignor to Garwood Company. Bolt-anchor. No. 1,295,328; Feb. 25; v. 259; p. 636.
- Karitzky, John, Garwood, N. J., assignor to Garwood Company. Tube-hanger. No. 1,313,191; Aug. 12; v. 265; p. 287.
- Kariya, Seikichi, Portland, Oreg. Non-refillable bottle. No. 1,293,464; Feb. 4; v. 259; p. 113.
- Karkalla, Frank C., Fairhaven, Pa. Trolley-wheel. No. 1,326,063; Dec. 23; v. 269; p. 656.
- Karkau, Albert G., assignor to The K-W. Ignition Company, Cleveland, Ohio. Circuit-breaker for ignition apparatus. No. 1,294,471; Feb. 18; v. 259; p. 416.
- Karl, Ernest, Litchfield, Conn. Adjustable spider-chase and lockup for platen printing-presses. No. 1,318,284; Oct. 7; v. 267; p. 120.
- Karl, George E. (See Woodin, Kolczynski, and Karl.)
- Karl, George E., assignor to The Dunham Company, Berea, Ohio. Land-roller. No. 1,298,511; Mar. 25; v. 260; p. 682.
- Karl, George E., assignor to The Dunham Company, Berea, Ohio. Land-roller. No. 1,305,652; June 3; v. 263; p. 80.
- Karl, George E., J. F. Kolczynski, and C. K. Woodin, Poughkeepsie, N. Y., assignors to The Dunham Company, Berea, Ohio. Producing agricultural-implement wheels. No. 1,325,723; Dec. 23; v. 269; p. 593.
- Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Bobbin-winding attachment. No. 1,290,225; Jan. 7; v. 258; p. 51.
- Karlin, Ester, New York, N. Y. Combined shoulder-brace and abdominal support. No. 1,303,330; May 13; v. 262; p. 189.
- Karlson, Henry C. (See Mack, Carl, assignor.)
- Karmen, Bernard H., New York, N. Y. Powder-puff. No. 1,299,191; Apr. 1; v. 261; p. 131.
- Karns, Linus L., Rock Island, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Means for forming boiler-headers. No. 1,322,116; Nov. 18; v. 268; p. 445.
- Karr, Charles D., Holland, Mich. Bed-spring. No. 1,291,902; Jan. 21; v. 258; p. 508.
- Karr, Harry E. (See Trimble and Pink, assignors.)
- Karron, Louis. (See Meltzer and Karron.)
- Karschitz, Frank, Bridgeport, Conn. Combination-chair. No. 1,305,221; May 27; v. 262; p. 618.
- Karst, George, and A. J. Nelson, assignors to Taylor Instrument Companies, Rochester, N. Y. Time-controlled regulator. No. 1,321,103; Nov. 11; v. 268; p. 204.
- Kartheiser, John J., assignor to Karbuab Company, Chicago, Ill. Carbureter. No. 1,297,572; Mar. 18; v. 260; p. 454.
- Kartheiser, John J., assignor to Karbuab Company, Chicago, Ill. Carbureter. No. 1,297,573; Mar. 18; v. 260; p. 455.
- Karton, Isidor, Brooklyn, N. Y. Means for screening or obscuring ships. No. 1,310,533; July 22; v. 264; p. 561.
- Kasan, Louis, New York, N. Y. Awning. No. 1,304,063; May 20; v. 262; p. 361.
- Kasel, Otto, New York, N. Y. Die. No. 1,308,178; July 1; v. 264; p. 31.
- Kash, Robert, et al. (See Merwin, James E., assignor.)
- Kaskoto, Stephan, Lansing, Mich. Railway-tie and clamp. No. 1,292,796; Jan. 28; v. 258; p. 743.
- Kasley, Alexander T., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hot-air engine. No. 1,290,756; Jan. 7; v. 258; p. 179.
- Kasley, Alexander T., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Generating pressure. No. 1,313,698; Aug. 19; v. 265; p. 398.
- Kasmauski, Veronika, Chicago, Ill. Belt. No. 1,319,650; Oct. 21; v. 267; p. 467.
- Kasper, William C., Lakewood, Ohio. Awning attachment for automobiles. No. 1,319,345; Oct. 21; v. 267; p. 408.
- Kass, Peter, Chicago, Ill. Metal tread. No. 1,306,339; June 10; v. 263; p. 241.
- Kassis, Abraham, Casper, Wyo. Amusement device. No. 1,320,621; Nov. 4; v. 268; p. 49.
- Kassler, Adolf, New York, N. Y. Ear-ring. No. 1,304,986; May 27; v. 262; p. 573.
- Kasson, Rutgers S., Keeseville, N. Y. Brooder. No. 1,310,348; July 15; v. 264; p. 495.



- Kast, Edward R., Baltimore, Md., assignor to Kast Insetting & Gathering Machine Company, New York, N. Y. Signature-handling mechanism. No. 1,291,913; Jan. 21; v. 258; p. 509.
- Kast Insetting & Gathering Machine Company. (See Kast, Edward R., assignor.)
- Kast Insetting and Gathering Machine Co. (See Sproul, Joseph, assignor.)
- Kastengren, Gustav E., Seattle, Wash. Marine-vessel construction. No. 1,301,270; Apr. 22; v. 261; p. 674.
- Kastler, Joseph G., Detroit, Mich. Sash-lock. No. 1,321,053; Nov. 4; v. 268; p. 131.
- Kastlin, Henry G. (See Worden and Kastlin.)
- Katayama, Hideo, Odawara-Aichi, Japan. Means for raising submerged vessels by means of aviating-machines. No. 1,303,912; May 20; v. 262; p. 333.
- Katchem, Charles J., assignor of one-half to S. Gottlieb, Minneapolis, Minn. Steam-trap. No. 1,293,111; Feb. 4; v. 259; p. 32.
- Kates, Abraham, Philadelphia, Pa. Eyeglass-frame. No. 1,326,664; Dec. 30; v. 269; p. 806.
- Katko, Stephen, South Brownville, Pa. Life-boat. No. 1,299,476; Apr. 8; v. 261; p. 224.
- Katterheirich, Christy D. (See Hinze and Katterheirich.)
- Katterheirich, Samuel B. (See Hinze and Katterheirich.)
- Kato, Naoya, Brooklyn, N. Y. Fountain-brush. No. 1,294,914; Feb. 18; v. 259; p. 519.
- Kato, Takichi, Tacoma, Wash. Window-cleaner. No. 1,295,516; Feb. 25; v. 259; p. 680.
- Katz, Charles S., New York, N. Y. Manufacture of Panama and toyo hats. No. 1,315,605; Sept. 9; v. 266; p. 216.
- Katz, Louis, San Francisco, Calif. Clutch-pedal lock. No. 1,322,244; Nov. 18; v. 263; p. 469.
- Katzenstein, Leon L., Worcester, Mass., assignor to Norton Company. Lubricating abrasive wheel and making same. No. 1,325,503; Dec. 16; v. 269; p. 534.
- Katzke, Albert, Milwaukie, Oreg. Necktie-holder. No. 1,313,822; Aug. 19; v. 265; p. 422.
- Katzmarek, Michael, Duluth, Minn. Aquatic appliance. No. 1,318,451; Oct. 14; v. 267; p. 212.
- Kaufman, Charles A., Pittsburgh, Pa. Calendar. No. 1,299,354; Apr. 1; v. 261; p. 167.
- Kaufmann, Ferdinand E., Clark township, Union county, N. J. Clipping-machine. No. 1,307,361; June 24; v. 263; p. 494.
- Kaufman, Adolph G., New York, N. Y. Lamp-shade. No. 1,319,092; Oct. 21; v. 267; p. 359.
- Kaufman, Alfonso, New York, N. Y., assignor, by mesne assignments, to Air Reduction Company, Incorporated. Fixation-chamber for making nitrogen compounds. No. 1,307,862; June 24; v. 263; p. 494.
- Kaufman, Harry A., New York, N. Y. Combined sleeve and mitten for garments. No. 1,296,966; Mar. 11; v. 260; p. 296.
- Kaufman, Herman, *et al.* (See Eckstein, Morris, assignor.)
- Kaufman, Irving, New York, N. Y. Bucket. No. 1,295,517; Feb. 25; v. 259; p. 680.
- Kaufman, Jacob. (See Ripich and Horn, assignors.)
- Kaufman, Joseph, assignor of one-half to W. Klenert, New York, N. Y. Lock. No. 1,301,451; Apr. 22; v. 261; p. 709.
- Kaufman, Sidney L. (See Schoradt, Fredrick W. B., assignor.)
- Kaufmann, Carl H. (See Kaufmann, Charles F. L., W. L., and C. H.)
- Kaufmann, Charles F. L., Santa Ana, Cal. Boat search-light. No. 1,292,475; Jan. 28; v. 258; p. 666.
- Kaufmann, Charles F. L., W. L., and C. H., assignors to Chas. Kaufmann & Sons, Santa Ana, Calif. Lamp attachment. No. 1,320,395; Nov. 4; v. 268; p. 7.
- Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom-harness. No. 1,292,612; Jan. 28; v. 258; p. 701.
- Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom-frame. No. 1,294,670; Feb. 18; v. 259; p. 462.
- Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Reed for looms. No. 1,294,671; Feb. 18; v. 259; p. 462.
- Kaufmann, John W., Baltimore, Md. Bag-fastener. No. 1,301,452; Apr. 22; v. 261; p. 709.
- Kaufmann, John W., Baltimore, Md. Case-fastener. No. 1,325,440; Dec. 16; v. 269; p. 523.
- Kaufmann, Walter L. (See Kaufmann, Charles F. L., W. L., and C. H.)
- Kaumeyer, Edward A., and D. M. Bloom, Chicago, Ill.; said Kaumeyer assignor to said Bloom. Sewing-machine. No. 1,300,843; Apr. 15; v. 261; p. 548.
- Kaupert, George, assignor of one-half to F. P. A. Brunswick and one-half to J. Kaupert, Chicago, Ill. Testing apparatus. No. 1,306,066; June 19; v. 263; p. 187.
- Kaupert, Josephine, *et al.* (See Kaupert, George, assignor.)
- Kaupp, George F., Aberdeen, S. D. Mud-chain. No. 1,315,131; Sept. 2; v. 266; p. 120.
- Kautzman, Philip W., West Hoboken, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Dust-cap. No. 1,326,455; Dec. 30; v. 269; p. 767.
- Kavanagh, Edward H., *et al.* (See Scott, Jacob R., assignor.)
- Kavanagh, Enoch, assignor of one-fourth to H. P. Cramblet and one-fourth to H. H. Gerard, Des Moines, Iowa. Adjustable punch-holder. No. 1,313,699; Aug. 19; v. 265; p. 399.
- Kavanagh, George L., Montreal, Quebec, Canada. Vehicle-tire. No. 1,300,732; Apr. 15; v. 261; p. 524.
- Kavanagh, William, Yonkers, N. Y. Omelet-pan. No. 1,292,476; Jan. 28; v. 258; p. 666.
- Kavey, Martin J., Pittsfield, Mass. Coat. No. 1,322,578; Nov. 25; v. 268; p. 584.
- Kavgas, Nicklaus, and W. K. Zweeres, Brooklyn, N. Y. Butter-dispensing apparatus. No. 1,312,547; Aug. 12; v. 265; p. 160.
- Kawai, Tokuji, Onga-Gun, Fukuoka-Ken, Japan. Gas-purifying apparatus. No. 1,304,884; May 27; v. 262; p. 554.
- Kawai, Tokuji, Kokura, Japan. Apparatus for charging blast-furnaces. No. 1,319,005; Oct. 14; v. 267; p. 318.
- Kawanishi, Sadagiro, Tokyo, Japan. Disinfecting apparatus. No. 1,309,859; July 15; v. 264; p. 407.
- Kawasaki, Utakichi, San Francisco, Cal. Bait-spoon. No. 1,290,571; Jan. 7; v. 258; p. 134.
- Kawell, Fred, Mankato, Minn. Transmission-gearing. No. 1,291,542; Jan. 14; v. 258; p. 387.
- Kawner Manufacturing Company. (See Plym and Barclay, assignors.)
- Kay, Charles F., Spokane, Wash. Signaling device. No. 1,308,498; July 1; v. 264; p. 89.
- Kay, Fremont S., Morland, Kans. Tool for removing connectors from batteries. No. 1,316,485; Sept. 16; v. 266; p. 393.
- Kaye, Kathryn M., New York, N. Y. Combination-garment. No. 1,317,018; Sept. 23; v. 266; p. 541.
- Kaye, Samuel, Columbus, Miss. Crown-feeder for bottle-capping machines. No. 1,304,323; May 20; v. 262; p. 409.
- Kazakawitz, William, New York, N. Y. Folding umbrella. No. 1,293,795; Feb. 11; v. 259; p. 222.
- Kazenmaier, August, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electrical speed-indicator. No. 1,312,992; Aug. 12; v. 265; p. 248.
- Kazenmaier, August, and E. Bauer, Stuttgart, Germany, assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Starting system for engines. No. 1,312,991; Aug. 12; v. 265; p. 248.
- Keairnes, Cornelius, Mapleton, Iowa. Device for watering hogs. No. 1,325,474; Dec. 16; v. 269; p. 529.
- Keall, Frank B. (See Jerrard and Keall.)
- Keane, Francis M., Botsford, Conn. Automobile towing-rope. No. 1,320,763; Nov. 4; v. 268; p. 76.
- Kear, John. (See Birchland and Kear.)
- Keene, Edward S., Lakewood, Wash. Bottle-suspending hook. No. 1,304,064; May 20; v. 262; p. 361.
- Kensley, Rowland P., New York, N. Y., assignor to National Fire Proofing Co., Pittsburgh, Pa. Building construction. No. 1,296,527; Mar. 4; v. 260; p. 159.
- Keathley, William R., Ellington, Mo. Safety device for horse-drawn vehicles. No. 1,323,224; Nov. 25; vol. 268; p. 707.
- Keating, George A. (See McOkey and Keating.)
- Keating, James J., Highland Falls, N. Y. Collapsible box. No. 1,298,349; Mar. 25; v. 260; p. 646.
- Keating, Paul W., assignor of one-half to C. N. Smith, Ochiltree, Tex. Air-pump. No. 1,319,775; Oct. 28; v. 267; p. 513.
- Keaton, Robert H., San Francisco, Calif. Tire grooving and finishing machine. No. 1,304,485; May 20; v. 262; p. 442.
- Keator, Charles D., Compti, assignor to The Connecting Link Company, Inc., Natchitoches, La. Hook and guard therefor. No. 1,298,051; Mar. 25; v. 260; p. 583.
- Keld, Albert A., assignor of one-half to J. J. Preha, Baltimore, Md. Life-saving device. No. 1,296,967; Mar. 11; v. 260; p. 296.
- Keller, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Co. Rheostat. No. 1,321,104; Nov. 11; v. 268; p. 204.
- Keck, Paul H., Chicago, Ill. Shaft-bearing. No. 1,320,065; Oct. 28; v. 264; p. 567.
- Keck, William M., Los Angeles, Calif. Bull and calf wheel gudgeon. No. 1,315,669; Sept. 9; v. 266; p. 226.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,291,111; Feb. 11; v. 259; p. 296.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,297,358; Mar. 18; v. 260; p. 310.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,302,808; May 6; v. 262; p. 62.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,302,809; May 6; v. 262; p. 62.



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- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,324,355; Dec. 9; v. 269; p. 258.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,325,871; Dec. 23; v. 269; p. 621.
- Kedzierski, John L., and S. Hatashita, assignors to Parkview Sales Co., Detroit, Mich. Radius-rod. No. 1,291,543; Jan. 14; v. 258; p. 387.
- Kee, Charles L., Portsmouth, Va. Aircraft-planted mine and anchor. No. 1,300,413; Apr. 15; v. 261; p. 457.
- Kee, John P. (See Wilkin and Kee.)
- Kee, Henry C., Greenville, Tex. Fishing-rod handle. No. 1,318,085; Oct. 7; v. 267; p. 80.
- Kee, William J., Metuchen, N. J., assignor to The Kalbfleisch Corporation, New York, N. Y. Making salt cake and sulfuric acid from niter cake. No. 1,313,192; Aug. 12; v. 265; p. 287.
- Keefer, Mae A., administratrix. (See Keefer and Greenleaf.)
- Keefer, Samuel H., deceased, (M. A. Keefer, administratrix,) and G. E. Greenleaf, Plainfield, assignors to Niles-Bement-Pond Company, Jersey City, N. J. Machine-tool. No. 1,299,192; Apr. 1; v. 261; p. 131.
- Keefer, Thomas, assignor, by mesne assignments, to The Recording Devices Company, Dayton, Ohio. Counting or numbering device. No. 1,323,290; Dec. 2; v. 269; p. 13.
- Keefer, Thomas A., assignor to The Recording Devices Company, Dayton, Ohio. Recording-lock. No. 1,309,437; July 8; v. 264; p. 292.
- Keefer, Thomas A., assignor to The Recording Devices Company, Dayton, Ohio. Lock. No. 1,309,438; July 8; v. 264; p. 292.
- Keefer, Thomas A., assignor to The Recording Devices Company, Dayton, Ohio. Lock. No. 1,309,439; July 8; v. 264; p. 292.
- Keegan, Francis W., assignor to D. M. Livingston, New York, N. Y. Radiator. No. 1,295,518; Feb. 25; v. 259; p. 680.
- Keegan, George. (See Doyle, Kerins, and Keegan.)
- Keel, Charles E., Indianapolis, Ind. Internal-combustion engine. No. 1,290,226; Jan. 7; v. 258; p. 51.
- Keelan, Charles. (See Herrbold and Keelan.)
- Keeler Brass Company. (See Clark, Wycliffe L., assignor.)
- Keeler, Lloyd S., and J. F. Brightman, assignors to The Syracuse Faucet and Valve Company, Syracuse, N. Y. Gate-valve. No. 1,294,112; Feb. 11; v. 259; p. 296.
- Keen, Alexis W., and P. Frigeri, New York, N. Y., assignors to Rubber Regenerating Company. Composite sheet material. No. 1,320,149; Oct. 28; v. 267; p. 583.
- Keenan, Catherine C. (See Keenan, Daniel and C. C.)
- Keenan, Daniel T. and Catherine C., Philadelphia, Pa. Automobile or tire theft alarm. No. 1,310,349; July 15; v. 264; p. 496.
- Keenan, Edward H., P. Christiansen, and R. Ruemelin, Stillwater, Minn., assignors of one-half to Twin City Forge & Foundry Company. Transcribing instrument. No. 1,309,600; July 8; v. 264; p. 323.
- Keenan, John F., Seattle, Wash. Apparatus for forming brick-surfaced pavement. No. 1,291,544; Jan. 14; v. 258; p. 388.
- Keenan, John F., Providence, R. I. Valve. No. 1,310,497; July 22; v. 264; p. 554.
- Keene, Edward S., Agricultural College, N. D. Lettering-pen. No. 1,320,694; Nov. 4; v. 268; p. 62.
- Keener, George I., Weston, W. Va. Antisaid-chain. No. 1,297,476; Mar. 18; v. 260; p. 434.
- Keener, George I., Weston, W. Va. Fastening or coupling. No. 1,297,477; Mar. 18; v. 260; p. 434.
- Keeney, Charles H., assignor to Union Electric Manufacturing Company, Milwaukee, Wis. Multiple switch. No. 1,295,040; Feb. 18; v. 259; p. 546.
- Keenum, Charles W., Tucson, Ariz. Tire-tool. No. 1,290,227; Jan. 7; v. 258; p. 51.
- Keepfer, Thomas, Philadelphia, Pa. Traveling step-ladder. No. 1,306,546; June 10; v. 263; p. 278.
- Keepsafe Company, The (See McQuarrie, James L., assignor.)
- Keeran, Charles R., assignor to Keeran Products Company, Chicago, Ill. Fountain-pen. No. 1,301,057; Apr. 15; v. 261; p. 595.
- Keeran Products Company. (See Bergen, George B., assignor.)
- Keeran Products Company. (See Keeran, Charles R., assignor.)
- Keeran, Samuel R., Phoenix, Ariz. Car-replacer. No. 1,313,193; Aug. 12; v. 265; p. 287.
- Kees, Frederick, Minneapolis, Minn. Delivery-box. No. 1,305,722; June 3; v. 263; p. 93.
- Kees, Frederick, and S. M. Colburn, Minneapolis, Minn. Automobile clock-holder. No. 1,307,053; June 17; v. 263; p. 405.
- Keesey, John A., Brooklyn, N. Y., and A. Shedlock, Cannondale, Conn.; said Shedlock assignor to said Keesey. Casing for signaling apparatus. No. 1,292,481; Jan. 28; v. 258; p. 667.
- Keesey, John A., Brooklyn, N. Y., and A. Shedlock, Cannondale, Conn.; said Shedlock assignor to said Keesey. Signaling apparatus. No. 1,301,271; Apr. 22; v. 261; p. 674.
- Keesey, John A., Brooklyn, N. Y., and A. Shedlock, Cannondale, Conn.; said Shedlock assignor to said Keesey. Signaling apparatus. No. 1,310,623; July 22; v. 264; p. 578.
- Keesler, Clyde C., assignor to Watson Wagon Company, Canastota, N. Y. Motor-vehicle. No. 1,312,993; Aug. 12; v. 265; p. 249.
- Keesler, Clyde C. and F. A. Clock, assignors to Watson Wagon Company, Canastota, N. Y. Coupling for wagon-trailers. No. 1,319,224; Oct. 21; v. 267; p. 385.
- Keesler, Clyde C., assignor to Watson Wagon Company, Canastota, N. Y. Brake for trailers. No. 1,321,377; Nov. 11; v. 268; p. 256.
- Keeyers, Matthew J. (See Fleming, William J., assignor.)
- Keey, James W., Chicago, Ill. Service-table. No. 1,318,387; Oct. 14; v. 267; p. 200.
- Kehler, Sheiman L., Washington, D. C. Dirigible airship. No. 1,320,867; Nov. 4; v. 268; p. 96.
- Kehm, Clarence H. (See Cotton and Kehm.)
- Kelcoe, Charles S., et al, executors. (See Barratt, William T., assignor.)
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,301,058; Apr. 15; v. 261; p. 595.
- Kehoe, Thomas J., Toledo, Ohio. Motor-vehicle-hood side hinge. No. 1,316,579; Sept. 23; v. 266; p. 460.
- Kehr, Jesse S., Wakarusa, Ind. Animal-muzzle. No. 1,300,977; Apr. 15; v. 261; p. 576.
- Kehrhahn, Otto G. H. E., New Rochelle, N. Y. Propagating electric impulses in antennae. No. 1,325,250; Dec. 16; v. 269; p. 488.
- Keil, Gustav B., assignor to Federal Sign System (Electric), Chicago, Ill. Gearing. No. 1,323,772; Dec. 2; v. 269; p. 103.
- Keil, Lewis E., assignor to St. Louis Car Company, St. Louis, Mo. Brake-hanger. No. 1,303,069; May 6; v. 262; p. 112.
- Keil, Otto W., New York, assignor of one-half to O. C. Stets, Woodhaven, N. Y. Manufacturing transparent surfaces. No. 1,308,426; July 1; v. 264; p. 76.
- Keil, Otto W., Brooklyn, N. Y. Decorative art. No. 1,315,368; Sept. 9; v. 266; p. 174.
- Keilholtz, Pierre O., Baltimore, Md. Regulator. No. 1,321,054; Nov. 4; v. 268; p. 131.
- Keily, William J. (See Spencer and Keily.)
- Keim, Archer. (See Schlechter and Keim.)
- Keim, Chester A., West Orange, N. J. Connector for electric conductors. No. 1,291,545; Jan. 14; v. 258; p. 388.
- Keim, Harry E. (See Anson and Keim.)
- Keineder, Johann, Astoria, N. Y. Loom. No. 1,318,498; Oct. 14; v. 267; p. 221.
- Keiper, Frank. (See Knapp and Richter, assignors.)
- Keiper, Frank, et al. (See MacDonald and Dougherty, assignors.)
- Keiser, Jan, The Hague, Netherlands. Milling-cutter. No. 1,316,959; Sept. 23; v. 266; p. 530.
- Keister, Bernard, Cleveland, Ohio. Anti-window-rattler. No. 1,291,915; Feb. 18; v. 259; p. 513.
- Keister, James, Steubenville, Ohio. Reversible four-cycle engine. No. 1,315,814; Sept. 9; v. 266; p. 259.
- Keitel, Henry A., St. Louis, Mo. Fuel vaporizing means for vehicle-motors. No. 1,301,707; Apr. 22; v. 261; p. 758.
- Keith, Alexander E., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Telephone system. No. 1,290,837; Jan. 7; v. 258; p. 198.
- Keith, Alexander E., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Individual switch mechanism for automatic telephone systems. No. 1,301,324; May 20; v. 262; p. 410.
- Keith, Alexander E., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Telephone system and apparatus. No. 1,307,977; June 24; v. 263; p. 606.
- Keith, Alexander E., Hinsdale, Ill., assignor, by mesne assignments, to Automatic Electric Company. Non-grounded or metallic circuit system. No. 1,321,313; Nov. 11; v. 268; p. 244.
- Keith, Alexander E., Hinsdale, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,322,025; Nov. 18; v. 268; p. 428.
- Keith, Alexander E., Hinsdale, and J. G. Blessing, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone switching apparatus. No. 1,295,175; Feb. 25; v. 259; p. 601.
- Keith, Charles H. (See Busby, Junius E., assignor.)
- Keith, Ephraim J., Sikeston, Mo. Ditch-digging machine. No. 1,315,512; Sept. 9; v. 266; p. 200.
- Keith, Ephraim J., Sikeston, Mo. Log-piler and clearing-machine. No. 1,317,504; Sept. 30; v. 266; p. 669.
- Keith, Ephraim J., assignor of forty-five one-hundredths to M. S. Murray, Sikeston, and ten one-hundredths to J. A. Finch, New Madrid, Mo. Composition for protecting wire cables, ropes, and other bearing-surfaces. No. 1,305,222; May 27; v. 262; p. 619.



- Keith, Ephraim J., assignor of forty-five one-hundredths to M. S. Murray, Sikeston, and ten one-hundredths to J. A. Finch, New Madrid, Mo. Protecting bearing-surfaces. No. 1,318,766; Oct. 14; v. 267; p. 272.
- Keith, Floss A., Schenectady, N. Y. Anchor-bolt support. No. 1,323,067; Nov. 25; v. 268; p. 676.
- Keith, Porrest D., Oshkosh, Nebr. Beet-harvester. No. 1,304,486; May 20; v. 262; p. 442.
- Keith, Frederick R., Randolph, Mass. Insole. No. 1,297,359; Mar. 18; v. 260; p. 410.
- Keith, George, assignor of one-half to J. Keith, London, England. Delivering a mixture of gas and air. No. 1,301,272; Apr. 22; v. 261; p. 674.
- Keith, George and W. A. Whatmough, London, England. Means for controlling the supply of combustible mixture to internal-combustion engines. No. 1,317,709; Oct. 7; v. 267; p. 9.
- Keith, Irving L. (See McMurray, Harry G., assignor.)
- Keith, Irving L., Haverhill, Mass. Cementing-machine. No. 1,311,605; July 29; v. 264; p. 793.
- Keith, James. (See Keith, George, assignor.)
- Keith, James L., St. Louis, Mo. Railway-train stop. No. 1,312,077; Aug. 5; v. 265; p. 42.
- Keith, Roy, Calamus, Iowa. Automobile-drive. No. 1,295,519; Feb. 25; v. 259; p. 681.
- Keith, William J., Cranston, R. I. Ornamental buckle. No. 1,319,711; Oct. 28; v. 267; p. 500.
- Keithley, Herbert R., and E. W. Test, assignors to A. R. Couden, trustee, Michigan City, Ind. Dump-car. No. 1,290,572; Jan. 7; v. 258; p. 135.
- Kekuwa, Samuel M., Lahaina, Hawaii. Propeller. No. 1,290,573; Jan. 7; v. 258; p. 135.
- Kekuwa, Samuel M., Lahaina, Hawaii. Hydrocarbon-burner. No. 1,290,757; Jan. 7; v. 258; p. 180.
- Kekuwa, Samuel M., Honolulu, Hawaii. Scale-plate. No. 1,295,041; Feb. 18; v. 259; p. 547.
- Kelcher, Leonard, Hakataramea, New Zealand. Wind-shield for motor-cars. No. 1,292,797; Jan. 28; v. 258; p. 743.
- Keles, Solomon, Stamford, Conn. Bow-guide for violins. No. 1,325,251; Dec. 16; v. 269; p. 489.
- Kellam, Charles E. (See Sturdivant, Frank K., assignor.)
- Kellar, George E. (See Martin, George C., assignor.)
- Kelleher, John F., assignor to Barbee Wire & Iron Works, La Fayette, Ind. Wireworking-tool. No. 1,321,314; Nov. 11; v. 268; p. 244.
- Kellenberger, Francis L., St. Louis, Mo. Safety-guard for power-presses. No. 1,309,527; July 8; v. 264; p. 309.
- Keller, Abraham J., New York, N. Y. Drapery-holder. No. 1,291,015; Jan. 14; v. 258; p. 264.
- Keller, Albert T., Baltimore, Md. Universal coupling. No. 1,300,733; Apr. 15; v. 261; p. 524.
- Keller, Albert T., Baltimore, Md. Double hotbed. No. 1,315,670; Sept. 9; v. 266; p. 227.
- Keller, Arthur C., assignor to Pawling & Harnischfeger Company, Milwaukee, Wis. Method of and apparatus for controlling electric motors. No. 1,293,112; Feb. 4; v. 259; p. 33.
- Keller, Charles, Eau Claire, Wis. Feed-stop for lathes. No. 1,316,162; Sept. 16; v. 266; p. 332.
- Keller, Charles, Eau Claire, Wis. Stud-bolt wrench. No. 1,323,987; Dec. 2; v. 269; p. 144.
- Keller, Charles A., Paris, France. Manufacture of steel. No. 1,316,724; Sept. 23; v. 266; p. 488.
- Keller, Clarence J., Columbus, Ohio. Indicator. No. 1,299,838; Apr. 8; v. 261; p. 307.
- Keller, Claude A., Cleveland, assignor to The Mansfield Electric Hardware Manufacturing Company, Mansfield, Ohio. Switch-box. No. 1,296,811; Mar. 11; v. 260; p. 260.
- Keller, Emil E., East Rochester, N. Y. Vehicle steering mechanism. No. 1,312,788; Aug. 12; v. 265; p. 208.
- Keller, Eugene W., North Bergen, N. J. Embroidery-machine. No. 1,323,066; Nov. 25; v. 268; p. 676.
- Keller, Ferdinand, Jr. (See Schick, George A., Jr., assignor.)
- Keller, Fred C., and R. A. Sharp, assignors to Milwaukee Reliance Boiler Works, Milwaukee, Wis. Universal fuel-boiler. No. 1,321,922; Nov. 18; v. 268; p. 409.
- Keller, Herman A., assignor to Kabo Corset Company, Chicago, Ill. Slotted member for corset-clasps. No. 1,319,289; Oct. 21; v. 267; p. 397.
- Keller, Huldreich, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Co., Zurich, Switzerland. Packing-ring. No. 1,326,064; Dec. 23; v. 269; p. 657.
- Keller, John S., assignor of one-half to G. H. Barrett, Flemington, Pa. Punch. No. 1,320,868; Nov. 4; v. 268; p. 96.
- Keller, John W., Chicago, Ill. Refrigerator drain-trap. No. 1,319,093; Oct. 21; v. 267; p. 360.
- Keller, Joseph F., New York, N. Y. Machine for engraving or sinking dies. No. 1,316,796; Sept. 23; v. 266; p. 500.
- Keller, Joseph F., New York, assignor to Keller Mechanical Engraving Company, Brooklyn, N. Y. Die sinking, engraving, and reproducing device for milling-machines. No. 1,313,543; Aug. 19; v. 265; p. 370.
- Keller, Joseph F., New York, assignor to Keller Mechanical Engraving Company, Brooklyn, N. Y. Machine for engraving or sinking dies. No. 1,325,724; Dec. 23; v. 269; p. 594.
- Keller, Kent E., Ava, Ill. Valve mechanism for explosive-engines. No. 1,292,477; Jan. 28; v. 258; p. 666.
- Keller Mechanical Engraving Company. (See Keller, Joseph F., assignor.)
- Keller Mechanical Engraving Company. (See Shaw, John C., assignor.)
- Keller Pneumatic Tool Company. (See Keller, William H., assignor.)
- Keller Pneumatic Tool Company. (See Schinkez, Albert, assignor.)
- Keller Pneumatic Tool Company. (See Sykes, Lewis, assignor.)
- Keller, Thomas, Paris, Ky. Rail-brace. No. 1,314,404; Aug. 26; v. 265; p. 568.
- Keller, William H., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,317,019; Sept. 23; v. 266; p. 541.
- Kelley, Addison F., Freeland Park, Ind. Dustpan. No. 1,315,310; Sept. 9; v. 266; p. 163.
- Kelley, Clarence. (See Deemer and Kelley.)
- Kelley, Emmor H., and G. A. Stewart, Jr., South Brownsville, Pa. Stand. No. 1,325,157; Dec. 16; v. 269; p. 471.
- Kelley, Frederick P. (See Foster and Kelley.)
- Kelley, George C., Hammond, Ind. Vacuum-cleaner. No. 1,318,881; Oct. 14; v. 267; p. 294.
- Kelley, George S. (See Landry and Kelley.)
- Kelley, Herbert F. (See Andrews, Arthur B., assignor.)
- Kelley, James, Clarkia, Idaho. Cable-clamp. No. 1,298,052; Mar. 25; v. 260; p. 583.
- Kelley, John M., et al., administrators. (See Tripp and Ramsay.)
- Kelley, John M., Kansas City, Mo. Rod-pulling and clamp-tightening device. No. 1,309,634; July 15; v. 264; p. 366.
- Kelley, John M., Rochester, N. Y. Pump. No. 1,309,987; July 15; v. 264; p. 431.
- Kelley, John M., and W. E. Pratt, Rochester, N. Y. Air-moistening means for furnaces. No. 1,310,085; July 15; v. 264; p. 448.
- Kelley, Leslie C., South San Francisco, Calif. Pedomotor. No. 1,308,675; July 1; v. 264; p. 122.
- Kelley, Lillias M., Ames, Iowa. Kit. No. 1,291,914; Jan. 21; v. 258; p. 509.
- Kelley, Orea M., Lowell, Mass. Assembly-machine. No. 1,320,288; Oct. 28; v. 267; p. 599.
- Kelley, Ward W., Lufkin, Tex. Footing wells. No. 1,291,915; Jan. 21; v. 258; p. 509.
- Kelley, William V. D. (See Raleigh and Kelley.)
- Kelley, William V. D., Brooklyn, N. Y. Socket and attachment plug. No. 1,320,150; Oct. 28; v. 267; p. 583.
- Kelley, William V. D., Brooklyn, N. Y., assignor to Prizma Incorporated. Method and apparatus for producing colored motion-pictures. No. 1,322,794; Nov. 25; v. 268; p. 624.
- Kellington, Edward C., Portland, Oreg. Spout for milling machinery and grain-elevators. No. 1,323,225; Nov. 25; v. 268; p. 707.
- Kellington, John, New Westminster, British Columbia, Canada. Fish salting and desliming machine. No. 1,310,662; July 22; v. 264; p. 585.
- Kellner, Gustav A. H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-measuring instrument. No. 1,309,359; July 8; v. 264; p. 277.
- Kellogg, Alonzo F., Portage, Wis. Exposure-identification device for cameras. No. 1,304,325; May 20; v. 262; p. 410.
- Kellogg, Charles S., New York, assignor of one-half to H. I. Bernhard, Brooklyn, N. Y. Fluid-cushion device for automobiles. No. 1,291,016; Jan. 14; v. 258; p. 265.
- Kellogg, Daniel P., Los Angeles, Calif. Composite drill and making same. No. 1,323,988; Dec. 2; v. 269; p. 144.
- Kellogg, Douglas C., and F. Rockett, assignors to The M. & K. Corset Co., Jackson, Mich. Corset. No. 1,315,967; Sept. 16; v. 266; p. 297.
- Kellogg, Earle H. (See Haskins and Kellogg.)
- Kellogg, George W., Rochester, N. Y. Motor-vehicle device. No. 1,317,626; Sept. 30; v. 266; p. 694.
- Kellogg, George W., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Air-pump for automobiles. No. 1,295,991; Mar. 4; v. 260; p. 39.
- Kellogg, Howard, et al. (See Schwarzman, Alexander, assignor.)
- Kellogg, John D. (See Wells and Kellogg.)
- Kellogg, John F., Guthrie, Okla. Ore-concentrator. No. 1,314,335; Aug. 26; v. 265; p. 554.
- Kellogg, John L., Battle Creek, Mich. Cereal food and production. No. 1,321,753; Nov. 11; v. 268; p. 327.
- Kellogg, John L., Battle Creek, Mich. Cereal food and production. No. 1,321,754; Nov. 11; v. 268; p. 327.
- Kellogg, Luke L., Fredonia, N. Y. Automobile-lifter. No. 1,291,546; Jan. 14; v. 258; p. 388.
- Kellogg Manufacturing Co. (See Hazard, George E., assignor.)
- Kellogg Manufacturing Co. (See Kellogg, George W., assignor.)
- Kellogg, Spencer, et al. (See Schwarzman, Alexander, assignor.)
- Kellogg Switchboard and Supply Company. (See Allen, Joseph S., assignor.)



## Alphabetical list of patentees—Continued.

- Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)
- Kellogg Switchboard & Supply Company. (See Currier and Ide, assignors.)
- Kellogg Switchboard and Supply Company. (See Faris, Harry N., assignor.)
- Kellogg Switchboard and Supply Company. (See Hilbish, John E., assignor.)
- Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
- Kellogg Switchboard and Supply Company. (See Munsell, Harry W., assignor.)
- Kellogg Switchboard & Supply Company. (See Nielsen, Emil J., assignor.)
- Kellogg Switchboard and Supply Company. (See Schoenwolf and Utter, assignors.)
- Kellogg Switchboard and Supply Company. (See Weiss, Alfred H., assignor.)
- Kellogg Switchboard and Supply Company. (See Winston, Charles S., assignor.)
- Kellogg Switchboard and Supply Company. (See Wolf, George D., assignor.)
- Kellogg, W. L. (See Meltz, August W., assignor.)
- Kellogg, William L., Detroit, Mich. Tank-car anchor. No. 1,290,574; Jan. 7; v. 258; p. 135.
- Kellogg, William L., Detroit, Mich. Tank-car construction. No. 1,290,575; Jan. 7; v. 258; p. 135.
- Kellogg, William L., Detroit, Mich., and R. W. Burnett, Chicago, Ill.; said Burnett assignor to said Kellogg. Friction draft-gear. No. 1,296,812; Mar. 11; v. 260; p. 260.
- Kellogg, Winthrop C., Wilkinsburg, assignor to Mathews Gravity Carrier Company, Ellwood City, Pa. Reversible Coupling for gravity-carriers. (Reissue.) No. 14,763; Dec. 2; v. 269; p. 158.
- Kellow, Warren G., Los Angeles, Calif. Adjustable eye-fitting device for dolls. No. 1,312,447; Aug. 5; v. 265; p. 112.
- Kellum, Charles S., assignor to The Lavigne Manufacturing Company, Detroit, Mich. Adjustable valve. No. 1,324,196; Dec. 9; v. 269; p. 228.
- Kellum, John J., and W. E. Heiddleston, Red Lodge, Mont. Emergency-brake. No. 1,309,945; July 15; v. 264; p. 424.
- Kellum, Orlando E., Los Angeles, Cal. Synchronizing apparatus. No. 1,292,798; Jan. 28; v. 258; p. 743.
- Kellum, Orlando E., Los Angeles, Cal. Producing assembled synchronous kinetograph and phonograph records. No. 1,294,672; Feb. 18; v. 259; p. 462.
- Kelly, Arthur T., Oklahoma, Okla. Collapsible ice-pick. No. 1,298,961; Apr. 1; v. 261; p. 79.
- Kelly, Charles, Boston, Mass. Spray-projector. No. 1,326,348; Dec. 30; v. 269; p. 746.
- Kelly Controller Company. (See Kelly, Patrick J., assignor.)
- Kelly, Daniel X., St. Louis, Mo. Aeroplane. No. 1,312,548; Aug. 12; v. 265; p. 161.
- Kelly, Edwin, Cazenovia, Wis. Mechanism for unloading wagons. No. 1,313,388; Aug. 19; v. 265; p. 340.
- Kelly, George B., Jamaica Plain, Mass., assignor to The Aeolian Company. Music-sheet. No. 1,303,592; July 1; v. 264; p. 107.
- Kelly, George D., Jefferson, Tex. Heel-sweep. No. 1,324,902; Dec. 16; v. 269; p. 423.
- Kelly, George J. (See Murdoch and Kelly.)
- Kelly, Hugh A., Pittsburg, N. H. Steamer attachment. No. 1,315,671; Sept. 9; v. 266; p. 227.
- Kelly, Hugh W., Providence, R. I., assignor of one-half to A. Love, Ridgewood, N. J. Making track-torpedoes. No. 1,304,487; May 20; v. 262; p. 442.
- Kelly, James G., assignor of one-half to H. Hall, Sedalia, Mo. Flux for solder for aluminum. No. 1,321,454; Nov. 11; v. 268; p. 271.
- Kelly, James G., assignor of one-half to H. Hall, Sedalia, Mo. Solder for aluminum. No. 1,321,529; Nov. 11; v. 268; p. 285.
- Kelly, James L., Nowata, Okla. Automobile-axle truss. No. 1,299,732; Apr. 8; v. 261; p. 282.
- Kelly, James W., Chicago, Ill. Water-closet. No. 1,298,350; Mar. 25; v. 260; p. 646.
- Kelly, John A. (See Demuth, Alfred M., assignor.)
- Kelly, John F., Chicago, Ill. Internal-combustion engine. No. 1,304,688; May 27; v. 262; p. 518.
- Kelly, John P., Pittsfield, Mass. Lubricator for air-compressors. No. 1,312,330; Aug. 5; v. 265; p. 88.
- Kelly, Joseph A. (See Kelly, Thomas F., assignor.)
- Kelly, Joseph N., Dayton, Ohio. Steering mechanism. No. 1,291,017; Jan. 14; v. 258; p. 265.
- Kelly, Louis N., Lancaster, N. Y. Automobile-wheel sled. No. 1,313,823; Aug. 19; v. 265; p. 422.
- Kelly, Orson N., Dallas, Tex. Combined collar-button and necktie-holder. No. 1,293,113; Feb. 4; v. 259; p. 33.
- Kelly, Patrick J., assignor to Kelly Controller Company, Chicago, Ill. Automatic boiler control. No. 1,315,776; Sept. 9; v. 266; p. 246.
- Kelly, Patrick J., assignor to Kelly Controller Company, Chicago, Ill. Boiler-controller. No. 1,316,580; Sept. 23; v. 266; p. 460.
- Kelly, Samuel. (See Kelly, Thomas and S.)
- Kelly-Springfield Tire Co. (See McClenathen, Robert, assignor.)
- Kelly-Springfield Tire Co. (See McClenathen and Heffelfinger, assignors.)
- Kelly-Springfield Tire Company. (See Convery, John J., assignor.)
- Kelly-Springfield Tire Company. (See Hulse, Edison G., assignor.)
- Kelly, Thomas and S., Glasgow, Scotland. Tube-bending apparatus. No. 1,309,250; July 8; v. 264; p. 257.
- Kelly, Thomas F., assignor of one-half to J. A. Kelly, Clinton, Iowa. Convertible furniture. No. 1,318,285; Oct. 7; v. 267; p. 120.
- Kelly, Thomas F., assignor of one-half to J. A. Kelly, Clinton, Iowa. Convertible furniture. No. 1,318,286; Oct. 7; v. 267; p. 120.
- Kelly, Thomas F., assignor of one-half to J. A. Kelly, Clinton, Iowa. Lock for convertible furniture. No. 1,318,287; Oct. 7; v. 267; p. 120.
- Kelly, Vernon. (See Gaddess, Harry W., assignor.)
- Kelly, William E. (See Harry and Kelly.)
- Kelly, William E., Cleveland, Ohio. Boring or reaming tool. No. 1,306,185; June 10; v. 263; p. 210.
- Kelly, William J., Cedar Rapids, assignor of one-half to Kelly, William J. (See Buchel, Jules, assignor.)
- Kelly, William N., Mannford, Okla. Truck. No. 1,303,480; May 13; v. 262; p. 216.
- Kelly, William P., and D. C. Slattery, Wexford, Ireland. Apparatus for separating oil from air in air-cooled systems for machinery. No. 1,303,207; May 6; v. 262; p. 139.
- Kelman, Joseph N., Los Angeles, Calif., assignor to The P. A. Geier Co., Cleveland, Ohio. Clothes-washing-machine. No. 1,319,346; Oct. 21; v. 267; p. 408.
- Kellsall, George A., assignor to Western Electric Company, Incorporated, New York, N. Y. Core-loss tester. No. 1,296,813; Mar. 11; v. 260; p. 260.
- Kelsey, Charles E., Albuquerque, N. Mex. Support for cameras. No. 1,319,397; Oct. 21; v. 267; p. 418.
- Kelsey, Frank L., et al. (See McGriff, Thomas C., assignor.)
- Kelsey, Harry R., and D. B. Benham, Minneapolis, Minn. Spark-plug. No. 1,326,599; Dec. 30; v. 269; p. 794.
- Kelsey, Harry S. (See Jaeger, Otto, assignor.)
- Kelsey, John, assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Wheel-hub. No. 1,309,804; July 15; v. 264; p. 597.
- Kelsey, John, assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Securing means for split fire-holding rims. No. 1,311,126; July 22; v. 264; p. 671.
- Kelsey, Samuel W., Red Lodge, Mont. Adjustable milking-stool. No. 1,318,288; Oct. 7; v. 267; p. 120.
- Kelsey, Sidney E., Kansas City, Mo. Apparatus for distilling hydrocarbon or other liquids. No. 1,302,669; May 6; v. 262; p. 35.
- Kelsey Wheel Company. (See Booth, William N., assignor.)
- Kelsey Wheel Company. (See Kelsey, John, assignor.)
- Kelsey, William J., et al. (See McGriff, Thomas C., assignor.)
- Kelso, Joseph, assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging for railway-cars. No. 1,306,429; June 10; v. 263; p. 257.
- E. L. Barber, Wyoming, Iowa. Tire-shoe. No. 1,307,445; June 24; v. 263; p. 509.
- Kelso, Ralph S. (See Moffatt and Kelso.)
- Kelso, Walter C., Bellevue, Iowa. Shipping-crate. No. 1,323,534; Dec. 2; v. 269; p. 59.
- Kelso, William. (See McConway and Kelso.)
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,294,343; Feb. 11; v. 259; p. 350.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,297,862; Mar. 18; v. 260; p. 517.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,302,056; Apr. 29; v. 261; p. 855.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Transition car-coupling. No. 1,309,290; July 8; v. 264; p. 265.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,309,291; July 8; v. 264; p. 265.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-rigging mechanism. No. 1,311,699; July 29; v. 264; p. 811.
- Kelson, Charles H., et al. (See Bergren, John A., assignor.)
- Keltonik, Stephen, Conemaugh, Pa. Inkstand. No. 1,312,184; Aug. 5; v. 265; p. 62.
- Keltonik, Stephen, Punxsutawney, Pa. Container. No. 1,314,596; Sept. 2; v. 266; p. 23.
- Kelvinator Company. (See Wales, Nathaniel B., assignor.)
- Kemble, Thomas S., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Magneto-testing apparatus. No. 1,316,244; Sept. 16; v. 266; p. 347.
- Kemm, Charles F., assignor of one-third to B. Perea, Albuquerque, N. Mex. Bomb. No. 1,313,300; Aug. 19; v. 265; p. 324.
- Kemmerer, Harry A., Jr. (See Kemmerer, Henry, Sr., and H. A., Jr.)



- Kemmerer, Henry, Sr., and H. A., Jr., Wilkes-Barre, Pa. Dustless ash-sifter. No. 1,318,289; Oct. 7; v. 267; p. 121.
- Kemp, Charles, New York, N. Y. Lock. No. 1,300,844; Apr. 15; v. 261; p. 548.
- Kemp, Charles, New York, N. Y. Lock. No. 1,300,845; Apr. 15; v. 261; p. 548.
- Kemp, Charles, New York, N. Y. Lock. No. 1,305,469; June 3; v. 263; p. 45.
- Kemp, Charles, New York, N. Y. Door-jamb-lock staple-fixture. No. 1,314,336; Aug. 26; v. 265; p. 554.
- Kemp, James. (See Pratt, Farmer, and Kemp.)
- Kemp, Walter D., et al. (See Pierce, Samuel H., assignor.)
- Kemp, Walter D., New York, N. Y. Device for shaving. No. 1,290,228; Jan. 7; v. 258; p. 52.
- Kemp, Walter D., New York, N. Y. Face-shield. No. 1,298,223; Mar. 25; v. 260; p. 620.
- Kemp, Walter D., New York, N. Y. Toy cavalry. No. 1,320,555; Nov. 4; v. 268; p. 37.
- Kemp, Walter D., New York, N. Y. Grasshopper-harvester. No. 1,325,475; Dec. 16; v. 269; p. 529.
- Kemp, William, St. Louis, Mo. Gas-analyzer. No. 1,308,788; July 8; v. 264; p. 171.
- Kemp, William E., New York, N. Y. Intake-manifold. No. 1,304,987; May 27; v. 262; p. 574.
- Kemp, William W., and W. H. Van Horn, Baltimore, Md. Method of and apparatus for producing blasts of heated air. No. 1,311,235; July 29; v. 264; p. 724.
- Kemper-Thomas Company, The. (See Henderson, Charles F., assignor.)
- Kemper-Thomas Company, The. (See Henderson, Edwin L., assignor.)
- Kemper-Thomas Company, The. (See James, Will C., assignor.)
- Kempin, August J., St. Paul, Minn. Indicator. No. 1,317,020; Sept. 23; v. 266; p. 542.
- Kempin, Stanislaus. (See Schroeder and Kempin.)
- Kempin, Stanislaus J., Minneapolis, Minn. Parachute-launching device. No. 1,325,441; Dec. 16; v. 269; p. 523.
- Kempny, Karol, Cleveland, Ohio. Scaffold. No. 1,305,723; June 3; v. 263; p. 93.
- Kempsmith Manufacturing Co., The. (See Parsons, Fred A., assignor.)
- Kempter, Philip, assignor to Geuder, Paeschke & Frey Co., Milwaukee, Wis. Shipping-case for films and the like. No. 1,314,269; Aug. 26; v. 265; p. 542.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Manufacturing composite articles. No. 1,309,757; July 15; v. 264; p. 389.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite article. No. 1,309,758; July 15; v. 264; p. 389.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Forming composite plates. No. 1,312,789; Aug. 12; v. 265; p. 208.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded commutator-cylinder and forming same. No. 1,326,349; Dec. 30; v. 269; p. 746.
- Kempton, Willard H., Wilkinsburg, and P. Thomas, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company. Making condensers. No. 1,315,968; Sept. 16; v. 266; p. 297.
- Kendall, Allen B., and O. S. Field, Elizabeth, N. J., assignors to Hall Switch & Signal Co. Signal. No. 1,301,949; Apr. 29; v. 261; p. 835.
- Kendall, Carl W., Edgewater Heights, N. J., assignor to Columbia Machine & Stopper Co. Inc., New York, N. Y. Bottle-capping machine. No. 1,299,355; Apr. 1; v. 261; p. 167.
- Kendall, Charles M., Illiopolis, Ill. Manifold-heater. No. 1,307,780; June 24; v. 263; p. 569.
- Kendall, David, assignor to The Alliance Machine Company, Alliance, Ohio. Forging-manipulator. No. 1,308,593; July 1; v. 264; p. 107.
- Kendall, Delaska A., San Diego, Cal. Preparing tire-treads. No. 1,290,576; Jan. 7; v. 258; p. 135.
- Kendall, Edward D., Elizabeth, N. J., assignor to Haggin Estate, Inc. Producing coal-tar dyes. No. 1,326,665; Dec. 30; v. 269; p. 806.
- Kendall, Edward P., Bowdoinham, Me. Potato-harvester. No. 1,314,270; Aug. 26; v. 265; p. 542.
- Kendall, Ella A., San Francisco, Calif. Article of furniture. No. 1,322,454; Nov. 18; v. 268; p. 510.
- Kendall, George W., Seadrift, Tex. Cultivator. No. 1,322,455; Nov. 18; v. 268; p. 510.
- Kendall, Harry C. (See Werner and Kendall.)
- Kendall, Hazel C., Allston, assignor to A. Hall, Boston, Mass. Means for supplying moisture. No. 1,311,652; July 29; v. 264; p. 802.
- Kendall, Ira H., Potsdam, N. Y. Sanitary fitting or coupling for pipes. No. 1,301,453; Apr. 22; v. 261; p. 709.
- Kendall, James B., assignor to Newstarter Manufacturing Company, Chicago, Ill. Fluid-motor. No. 1,299,477; Apr. 8; v. 261; p. 224.
- Kendall, James B., assignor to Newstarter Manufacturing Company, Chicago, Ill. Air-compressor. No. 1,299,478; Apr. 8; v. 261; p. 224.
- Kendall, Myron A., assignor to Stephens-Adamson Manufacturing Company, Aurora, Ill. Pulley. No. 1,292,799; Jan. 28; v. 258; p. 744.
- Kendon, Ole J., Port Washington, N. Y. Saw. No. 1,319,712; Oct. 28; v. 267; p. 500.
- Kendall, William G., Newark, N. J. Closure for talcum-powder cans. No. 1,291,916; Jan. 21; v. 258; p. 509.
- Kendall, William G., Newark, N. J. Vanity-case. No. 1,299,733; Apr. 8; v. 261; p. 283.
- Kendall, Zeb. (See Pinger, Leo, assignor.)
- Kendig, Julian H., Pittsburgh, Pa. Process and apparatus for drawing sheet-glass. No. 1,305,288; June 3; v. 263; p. 11.
- Kendrick, Arthur, Newton, assignor to International Instrument Company, Cambridge, Mass. Centrifugal filtering-machine. No. 1,293,114; Feb. 4; v. 259; p. 33.
- Kendrick, Charles S., and A. T. Curry, Dayton, Ohio. Gas-burner. No. 1,323,773; Dec. 2; v. 269; p. 103.
- Kendrick, William D., Miami, assignor of one-half to R. S. Knowles, Geronimo, and one-eighth to J. S. Van Buskirk, Miami, Ariz. Weather-strip. No. 1,311,127; July 22; v. 264; p. 671.
- Kenen, Leonard C., assignor to G. W. Dunham, Detroit, Mich. Crank-shaft construction. No. 1,322,579; Nov. 25; v. 268; p. 585.
- Kenley, William, Denver, Colo., assignor of one-half to T. M. Howell, Salt Lake City, Utah. Agitator for churns, washers, &c. No. 1,290,231; Jan. 7; v. 258; p. 53.
- Kennedy, Absalom M., Cloverdale, Ala. Method and apparatus for balancing rotors. No. 1,319,928; Oct. 28; v. 267; p. 542.
- Kennedy, Albert H., Rockport, Ind. Educational appliance. No. 1,305,724; June 3; v. 263; p. 93.
- Kennedy, Burr A. (See Waite, Harry C., assignor.)
- Kennedy Car Liner & Bag Co., The. (See Smith, James M., assignor.)
- Kennedy, David, South Norwood, London, England. Fuse for projectiles. No. 1,310,350; July 15; v. 264; p. 496.
- Kennedy, David, London, England. Percussion-fuse. No. 1,321,455; Nov. 11; v. 268; p. 271.
- Kennedy, David G., Caryville, Fla. Ratchet-wrench. No. 1,314,964; Sept. 2; v. 266; p. 90.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Apparatus for preparing type-bars or slugs for use in printing-forms. No. 1,300,846; Apr. 15; v. 261; p. 549.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,305,548; June 3; v. 263; p. 60.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,304,689; May 27; v. 262; p. 519.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,306,908; June 17; v. 263; p. 378.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical casting-machine. No. 1,306,909; June 17; v. 263; p. 378.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,308,594; July 1; v. 264; p. 107.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. No. 1,309,415; July 8; v. 264; p. 288.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,309,416; July 8; v. 264; p. 288.
- Kennedy, Frank B., assignor to The Recording and Computing Machines Company, Dayton, Ohio. Fare-box. No. 1,291,018; Jan. 14; v. 258; p. 265.
- Kennedy, Frank W., Trenton, N. J., assignor to The De Laval Separator Company, New York, N. Y. Lubricating-oil purifying and reclaiming system. No. 1,318,086; Oct. 7; v. 267; p. 81.
- Kennedy, Fred C. (See Kennedy, John T., assignor.)
- Kennedy, George C., Waterloo, Iowa. Auxiliary carrying means for vehicles. No. 1,292,478; Jan. 28; v. 258; p. 667.
- Kennedy, George C., Waterloo, Iowa. Dart-shooter attachment for marble-guns. No. 1,292,479; Jan. 28; v. 258; p. 667.
- Kennedy, George C., Waterloo, Iowa. Collapsible carrier for vehicles. No. 1,294,673; Feb. 18; v. 259; p. 463.
- Kennedy, George C., Waterloo, Iowa. Crypt for mausoleums. No. 1,300,173; Apr. 8; v. 261; p. 379.
- Kennedy, George C., Waterloo, Iowa. Marble-shooter. No. 1,302,378; Apr. 29; v. 261; p. 916.
- Kennedy, George C., Waterloo, Iowa. Force-delivery syringe. No. 1,308,954; July 8; v. 264; p. 202.
- Kennedy, Gussie M. (See Kennedy, Homer R., assignor.)
- Kennedy, Harry E. (See Mulvany and Kennedy.)
- Kennedy, Homer R., assignor to G. M. Kennedy, Los Angeles, Calif. Sheet-metal-working tool. No. 1,311,353; July 29; v. 264; p. 746.
- Kennedy, Homer R., assignor to G. M. Kennedy, Los Angeles, Calif. Metal-working tool. No. 1,316,451; Sept. 16; v. 266; p. 387.



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- Kennedy, Homer R., assignor to G. M. Kennedy, Los Angeles, Calif. Sheet-metal-working tool. No. 1,317,627; Sept. 30; v. 266; p. 694.
- Kennedy, Hugh A., Metaline, Wash. Signaling mechanism for baling-machines. No. 1,320,010; Oct. 28; v. 267; p. 557.
- Kennedy, Hugh A., Metaline, assignor of one-half to V. I. Tucker, Bossburg, Wash. Convertible chair. No. 1,298,053; Mar. 25; v. 260; p. 583.
- Kennedy, James W., assignor of one-fourth to J. E. Dungan, Canton, Ohio, one-fourth to W. S. Bryson, one-sixteenth to B. F. Bone, one-sixteenth to F. M. Howard, one-sixteenth to J. A. Schaub, one-sixteenth to A. C. Scroggins, Jr., Moundsville, and one-fourth to G. W. Way, Wheeling, W. Va. Apparatus for storing and dispensing ice-cream. No. 1,298,962; Apr. 1; v. 261; p. 80.
- Kennedy, James W., assignor, by direct and mesne assignments, of three-sixteenths to J. E. Dungan, Canton, Ohio, one-fourth to W. S. Bryson, one-sixteenth to B. F. Bone, one-sixteenth to F. M. Howard, one-sixteenth to J. A. Schaub, one-sixteenth to A. C. Scroggins, Jr., Moundsville, one-fourth to G. W. Way, Wheeling, and one-sixteenth to H. J. Zink, Moundsville, W. Va. Apparatus for dispensing semisolid substances. (Reissue.) No. 14,776; Dec. 23; v. 269; p. 674.
- Kennedy, John L. (See Gross, Allan J., assignor.)
- Kennedy, John L. (See Hopkins, Morton K., assignor.)
- Kennedy, John T., West Paterson borough, assignor of one-half to F. C. Kennedy, Paterson, N. J. Box-operating mechanism for looms. No. 1,302,670; May 6; v. 262; p. 36.
- Kennedy, Joseph, New York, assignor to J. E. Ogden, Mountainville, N. Y. Expansion-bolt. No. 1,293,465; Feb. 4; v. 259; p. 114.
- Kennedy, Joseph, New York, assignor to J. E. Ogden, Mountainville, N. Y. Expansion-anchor. No. 1,320,622; Nov. 4; v. 268; p. 49.
- Kennedy, Joseph, assignor to The Clements Company, New York, N. Y. Pressed-metal expansion-shield. No. 1,304,885; May 27; v. 262; p. 555.
- Kennedy, Joseph, assignor to The Clements Company, New York, N. Y. Bolt-anchor. No. 1,304,886; May 27; v. 262; p. 555.
- Kennedy, Joseph, Richmond Hill, assignor to J. E. Ogden, Mountainville, N. Y. Clamp. No. 1,304,065; May 20; v. 262; p. 361.
- Kennedy, Joseph, Richmond Hill, assignor to The Clements Co., New York, N. Y. Expansion-shield. No. 1,304,887; May 27; v. 262; p. 555.
- Kennedy, Joseph, Richmond Hill, assignor to J. E. Ogden, Mountainville, N. Y. Expansion-anchor. No. 1,320,623; Nov. 4; v. 268; p. 50.
- Kennedy, Joseph A., Kiona, Wash. Bicycle hand-grip. No. 1,303,803; May 13; v. 262; p. 275.
- Kennedy, Joseph E., New York, N. Y. Gyratory crushing apparatus. No. 1,295,757; Feb. 25; v. 259; p. 735.
- Kennedy, Joseph E., New York, N. Y. Gyratory crushing apparatus. No. 1,310,798; July 22; v. 264; p. 611.
- Kennedy, Joseph E., New York, N. Y. Plant for feeding pulverized coal to furnaces. No. 1,320,367; Oct. 28; v. 267; p. 623.
- Kennedy, Julian, Pittsburgh, Pa. Charging apparatus for blast-furnaces. No. 1,291,019; Jan. 14; v. 258; p. 266.
- Kennedy, Julian, Pittsburgh, Pa. Hydraulic cylinder and piston. No. 1,295,329; Feb. 25; v. 259; p. 636.
- Kennedy, Julian, Pittsburgh, Pa. Blast-furnace. No. 1,303,914; May 20; v. 262; p. 333.
- Kennedy, Julius E. (See Noppel, Emil, assignor.)
- Kennedy, Orville H., Metropolis, Ill. Internal-combustion engine. No. 1,291,917; Jan. 21; v. 258; p. 510.
- Kennedy, Otis M., Philadelphia, Pa., assignor to The Cunningham Piano Company. Expression-controlling device for mechanical musical instruments. No. 1,302,172; Apr. 29; v. 261; p. 877.
- Kennedy, Otis M., assignor to The Cunningham Piano Company of Philadelphia, Philadelphia, Pa. Expression-controlling device for player-pianos. (Reissue.) No. 14,672; June 24; v. 263; p. 615.
- Kennedy, Otis M., Philadelphia, Pa., assignor to Cunningham Piano Company. Automatic roll device for player-piano. No. 1,322,498; Nov. 18; v. 268; p. 518.
- Kennedy, Patrick, Brooklyn, assignor to Consolidated Railway Electric Lighting and Equipment Company, New York, N. Y. Car-lighting system. No. 1,305,970; June 3; v. 263; p. 140.
- Kennedy, Stephen L., Beloit, Wis. Safety baby-harness. No. 1,316,163; Sept. 16; v. 266; p. 332.
- Kennedy, Thomas C., Chicago, Ill. Coal-handling apparatus. No. 1,293,466; Feb. 4; v. 259; p. 114.
- Kennedy, William H., assignor of one-half to L. B. Miller, Chicago, Ill. Hoist for motor-trucks. No. 1,318,154; Oct. 7; v. 267; p. 94.
- Kennedy, William J., Jersey City, N. J. Furnace. No. 1,307,906; June 24; v. 263; p. 593.
- Kennelly, Joseph F., Jr., and A. De Robertis, Brooklyn, N. Y. Spring-tire for vehicles. No. 1,325,520; Dec. 23; v. 269; p. 556.
- Kennerly, Milton C., Stuart, Okla. Packing mechanism for cotton-presses. No. 1,321,105; Nov. 11; v. 268; p. 204.
- Kenneweg, Christian H., Millvale, Pa. Automatic control for internal-combustion engines. No. 1,304,888; May 27; v. 262; p. 555.
- Kenneweg, Christian H., Millvale, Pa. Internal-combustion engine. No. 1,323,366; Dec. 2; v. 269; p. 27.
- Kenney, Albert T. (See Colwell and Kenney.)
- Kenney, Carl L., assignor to Pittsburgh Coal Washer Company, Pittsburgh, Pa. Gearing. No. 1,307,202; June 17; v. 263; p. 431.
- Kenney, Frank E., et al. (See Kenney, Frank L., assignor.)
- Kenney, Frank E., assignor of one-half to F. A. Sweeney, Portland, Oreg. Stump-puller. No. 1,313,545; Aug. 19; v. 265; p. 370.
- Kenney, Frank L., assignor of one-half to F. A. Sweeney and one-half to F. E. Kenney, Portland, Oreg. Stump-extracting machinery. No. 1,291,918; Jan. 21; v. 258; p. 510.
- Kenney, John J., assignor to The Best Electric Company, Pittsburgh, Pa. Swivel attachment-plug. No. 1,290,229; Jan. 7; v. 258; p. 52.
- Kenney, John J., assignor to Best Electric Company, Pittsburgh, Pa. Separable plug. No. 1,297,179; Mar. 11; v. 260; p. 342.
- Kennicott, Cass L., Chicago Heights, Ill., assignor of one-half to The Permutit Company, New York, N. Y. Water-softening apparatus. No. 1,303,679; May 13; v. 262; p. 252.
- Kenniker, Nicholas O., assignor to Durable Box Co., Chicago, Ill. Fastener for boxes. No. 1,290,230; Jan. 7; v. 258; p. 52.
- Kenniker, Nicholas O., assignor to Durable Box Co., Chicago, Ill. Box and the like. No. 1,325,493; Dec. 16; v. 269; p. 533.
- Kenrick, William J., Chicago, Ill. Motor-vehicle. No. 1,293,796; Feb. 11; v. 259; p. 222.
- Kent, Charles S., Syracuse, N. Y. Land-title-record blank. No. 1,317,925; Oct. 7; v. 267; p. 50.
- Kent, Charles W., Peoria, Ill. Electric massage-machine. No. 1,305,725; June 3; v. 263; p. 94.
- Kent, Everett E., et al. (See Wolfard, Merl R., assignor.)
- Kent, Frank T., Rome, N. Y. Attachment for phonographs. No. 1,293,797; Feb. 11; v. 259; p. 222.
- Kent, Frank W., Clapham, and T. P. Middleton, Farnham, assignors to Kerotype, Limited, London, England. Transfer process. No. 1,299,479; Apr. 8; v. 261; p. 225.
- Kent, George S., Buffalo, N. Y. Boiler-furnace. No. 1,312,185; Aug. 5; v. 265; p. 63.
- Kent, Leslie H. (See De Normanville and Kent.)
- Kent, Reese B., Wheeling, W. Va. Musical instrument. No. 1,322,795; Nov. 25; v. 268; p. 625.
- Kent, William J., Brooklyn, N. Y., assignor to Revere Rubber Company. Rubber or elastic vehicle-tire. No. 1,302,173; Apr. 29; v. 261; p. 877.
- Kent, William J., Brooklyn, N. Y., assignor to Revere Rubber Company. Apparatus for cutting and removing blanks from moving webs. No. 1,303,680; May 13; v. 262; p. 252.
- Kentling, Rex, Mohler, Oreg. Safety-hook. No. 1,322,118; Nov. 18; v. 268; p. 445.
- Kentucky Tobacco Product Company, The. (See Mewborne and McConnell, assignors.)
- Kenworthy Brothers Company. (See Kenworthy, Herbert F., assignor.)
- Kenworthy, Herbert F., assignor to Kenworthy Brothers Company, Stoughton, Mass. Waterproof substitute for leather and the like. No. 1,310,624; July 22; v. 264; p. 578.
- Kenworthy, Herbert F., Scituate, assignor to Kenworthy Brothers Company, Stoughton, Mass. Porous substitute for leather and the like. No. 1,310,703; July 22; v. 264; p. 593.
- Kenyon, Elmer L., Chicago, Ill. Phonograph-horn. No. 1,303,208; May 6; v. 262; p. 139.
- Kenyon, George T., Lock No. 4, Pa. Shipping-case. No. 1,312,403; Aug. 5; v. 265; p. 103.
- Kenyon, James, Bolton, England. Lifting-bar of molding-boxes. No. 1,301,850; Apr. 29; v. 261; p. 816.
- Kenyon, James P., Lowpoint, Ill. Stretcher. No. 1,303,915; May 20; v. 262; p. 334.
- Kenyon, Otis A., New York, N. Y. Electric welding. No. 1,292,800; Jan. 28; v. 258; p. 744.
- Kenyon, Otis A., New York, N. Y. Series arc-welding. No. 1,303,481; May 13; v. 262; p. 216.
- Kenyon, Otis A., New York, N. Y. Electric welding. No. 1,303,681; May 13; v. 262; p. 253.
- Kenyon, Otis A., New York, N. Y. Arc-welding. No. 1,326,743; Dec. 30; v. 269; p. 821.
- Keogh, John, St. Peter, Minn. Clevis-locking device. No. 1,292,801; Jan. 28; v. 258; p. 744.
- Keon, John J., St. Louis, Mich. Sawing-machine. No. 1,318,324; Oct. 7; v. 267; p. 127.
- Kephart, Harry C., Denver, Colo. Combined insurance-contract and hotel-receipt. No. 1,310,912; July 22; v. 264; p. 631.
- Kepler, Andrew, Burton, Nebr. Hay-loader. No. 1,295,520; Feb. 25; v. 259; p. 681.
- Kepler, Clell S., Keosauqua, Iowa. Oiling device. No. 1,310,663; July 22; v. 264; p. 585.



- Kepler, Jesse S., Dayton, Ohio, assignor to Cap-Hold Incorporated, New York, N. Y. Wire-forming machine. No. 1,304,780; May 27; v. 262; p. 535.
- Kepler, Jesse S., Dayton, Ohio, and M. O. Kepler, New York, N. Y. Nutcracker. No. 1,315,557; Sept. 9; v. 266; p. 207.
- Kepler, Milton O. (See Kepler, Jesse S. and M. O.)
- Keppeler, George C., assignor of one-half to T. Dixon, West Baden, Ind. Fruit-squeezing tongs. No. 1,305,806; June 3; v. 263; p. 109.
- Kerchner, Harry G. (See Jacobs and Kerchner.)
- Kerckhoff, Jacob C., assignor of one-half to B. H. Cronacher, St. Louis, Mo. Station-indicator. No. 1,303,830; May 13; v. 262; p. 280.
- Kerins, Roderick E. (See Doyle, Kerins, and Keegan.)
- Kerlin, Horace B., Hamilton, Ohio. Oven-thermometer. No. 1,298,054; Mar. 25; v. 260; p. 533.
- Kerlin, Ward D. (See Howe and Kerlin.)
- Kermack, Robert R., Portsmouth, and E. G. O'Donnell, Newington, N. H. Sprayer attachment for hose-nozzles. No. 1,299,958; Apr. 8; v. 261; p. 332.
- Kerner, Martin J., assignor to Cannon-Swenson Company, Inc., Chicago, Ill. Means for dehydrating metal salts. No. 1,303,682; May 13; v. 262; p. 253.
- Kerner, Martin J., Evanston, Ill., and H. A. Faber, Cincinnati, Ohio. Reclaiming potassium salts, &c., from sugar refuse. No. 1,303,916; May 20; v. 262; p. 334.
- Kermode, John J., Liverpool, England. Cooking-range and the like adapted to burn heavy oil as fuel. No. 1,324,314; Dec. 9; v. 269; p. 250.
- Kern, Bernard, Sandusky, Ohio. Street-sweeping machine. No. 1,306,910; June 17; v. 263; p. 378.
- Kern, Bernard, Sandusky, Ohio. Street-sweeping machine. No. 1,306,911; June 17; v. 263; p. 379.
- Kern, Bernard, Sandusky, Ohio. Street-sweeping machine. No. 1,325,296; Dec. 16; v. 269; p. 497.
- Kern, Bernard, Sandusky, Ohio. Street-sweeping machine. No. 1,325,297; Dec. 16; v. 269; p. 497.
- Kern, Carl A., Mill Valley, Calif. Preserving fruit-juices and other organic food and vegetable products. (Re-issue.) No. 14,633; Apr. 15; v. 261; p. 602.
- Kern, Charles, Los Angeles, Calif. Street-surface delineator. No. 1,325,851; Dec. 23; v. 269; p. 617.
- Kern, George, Peru, assignor to Western Clock Co., La Salle, Ill. Alarm-clock. No. 1,300,278; Apr. 15; v. 261; p. 428.
- Kern, John C. (See Miller, George, assignor.)
- Kern, John P., Louisville, Ky. Card and label holder. No. 1,325,476; Dec. 16; v. 269; p. 529.
- Kern, Joseph M., Oswego, N. Y. Steam-engine. No. 1,301,571; Apr. 22; v. 261; p. 731.
- Kern, Joseph M., Oswego, N. Y. Stuffing-box. No. 1,304,690; May 27; v. 262; p. 519.
- Kern, Thomas J., Antioch, Ill. Stroppler for razor-blades. No. 1,294,113; Feb. 11; v. 259; p. 297.
- Kerner, Theodore, Milwaukee, Wis. Hopper-door for refuse-incinerators. No. 1,297,360; Mar. 18; v. 260; p. 410.
- Kerner, Theodore, Milwaukee, Wis. Sand-spreader. No. 1,297,361; Mar. 18; v. 260; p. 411.
- Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Buckle. No. 1,299,734; Apr. 8; v. 261; p. 283.
- Kerns, Edward J., Worcester, Mass. Contour-lathe. No. 1,307,499; June 24; v. 263; p. 519.
- Kerotype, Limited. (See Kent and Middleton, assignors.)
- Kerper, Bernard V. (See Cummer, Arthur J., assignor.)
- Kerr Adjustable Strap Company. (See Badger, Oliver L., assignor.)
- Kerr, Alexander H. (See Hubbard and Ruppert, assignors.) (Reissue.)
- Kerr, Alva L., Mount Gilead, Ohio. Toy camera. No. 1,305,807; June 3; v. 263; p. 109.
- Kerr, Charles V., Chicago, assignor to The American Well Works, Aurora, Ill. Wet vacuum-pump. No. 1,319,776; Oct. 28; v. 267; p. 513.
- Kerr, George C., assignor of one-third to H. I. Cohen and one-third to W. H. Gemmell, Brainerd, Minn. Clear-vision window. No. 1,301,454; Apr. 22; v. 261; p. 709.
- Kerr, George W., and L. A. Pray, Racine, Wis. Automobile-hood clamp. No. 1,312,078; Aug. 5; v. 265; p. 42.
- Kerr, Henry N., Philadelphia, Pa. Oil-lamp burner. No. 1,291,547; Jan. 14; v. 258; p. 388.
- Kerr, John, Toronto, Ontario, Canada. Non-refillable bottle. No. 1,305,549; June 3; v. 263; p. 60.
- Kerr, John C. H., Perry, Okla. Composition of matter for use in the manufacture of solid tires, liners, &c. No. 1,315,845; Sept. 9; v. 266; p. 259.
- Kerr, Mathew M., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Dental articulator. No. 1,291,919; Jan. 21; v. 258; p. 510.
- Kerr, Mathew M., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Dental instrument. No. 1,307,446; June 24; v. 263; p. 509.
- Kerr, Robert P., Gateshead, assignor to The Balanced Engine Syndicate Limited, Newcastle-upon-Tyne, and W. A. Riley, Gosforth, England. Internal-combustion engine. No. 1,316,245; Sept. 16; v. 266; p. 348.
- Kerr Turbine Company. (See Dahlstrand, Josef Y., assignor.)
- Kerr Turbine Company, The. (See Fernald, Benjamin G., assignor.)
- Kerr Turbine Company. (See Hanzlik, Henry J., assignor.)
- Kerr Turbine Company, The. (See Moore, James L., assignor.)
- Kerrigan, John F., Portland, Oreg. Automobile-bed. No. 1,306,258; June 10; v. 263; p. 226.
- Kerrigan, William P., New York, N. Y. Skate. No. 1,319,094; Oct. 21; v. 267; p. 360.
- Kersey, Ralph B. (See Ryder and Kersey.)
- Kershaw, Adolphus L., et al. See Kershaw, James L., assignor.)
- Kershaw, Charles E., Manchester, N. H. Hinged last. No. 1,311,523; July 29; v. 264; p. 779.
- Kershaw Corporation. (See Kershaw, Henry, assignor.)
- Kershaw, Grindrod. (See Holt and Kershaw.)
- Kershaw, Harry, Manchester, England. Internal grinder or mill for use in lathes, boring, drilling, and other machine tools. No. 1,298,963; Apr. 1; v. 261; p. 80.
- Kershaw, Henry, Kearney, N. J. Combined punch and spacing device. No. 1,306,013; June 10; v. 263; p. 178.
- Kershaw, Henry, assignor to Kershaw Corporation, Newark, N. J. Mail-bag catching and delivering apparatus. No. 1,302,561; May 6; v. 262; p. 15.
- Kershaw, Henry, assignor to Kershaw Corporation, Newark, N. J. Catching device for mail-bags. No. 1,302,562; May 6; v. 262; p. 15.
- Kershaw, Herbert, Ernfeld, Saskatchewan, Canada. Game device. No. 1,294,472; Feb. 18; v. 259; p. 416.
- Kershaw, Isabella, et al. (See Kershaw, James L., assignor.)
- Kershaw, James L., deceased; W. M. Baldwin, administrator, assignor of one-fifth to A. L. Kershaw and one-fifth to I. Kershaw, Cleveland, Ohio. Bending-machine. No. 1,304,326; May 20; v. 262; p. 410.
- Kershaw, Joseph, Joplin, Mo. Signal apparatus for automobiles. No. 1,298,055; Mar. 25; v. 260; p. 583.
- Kershner, Benjamin V., Chicago, Ill. Banjo-resonator. No. 1,291,548; Jan. 14; v. 258; p. 388.
- Kerz, Bernard, Brooklyn, N. Y. Underscoring attachment for type-writers. No. 1,322,699; Nov. 25; v. 268; p. 607.
- Kesler, Charles G., Lima, Ohio. Coaster-brake. No. 1,299,735; Apr. 8; v. 261; p. 283.
- Kesling, Elmer G., Bloomfield, Mo. Inscription attachment for roll-film cameras and producing light-printed inscriptions. No. 1,295,758; Feb. 25; v. 259; p. 735.
- Kessel, Fred, New York, N. Y. Support for table articles. No. 1,292,480; Jan. 28; v. 258; p. 667.
- Kessel, Joseph W., Brooklyn, N. Y. Fountain-pen clip. No. 1,309,946; July 15; v. 264; p. 424.
- Kessler, Emil, Brooklyn, N. Y., assignor to Nonpareil Toy & Novelty Co., Inc., Newark, N. J. Toy. No. 1,317,505; Sept. 30; v. 266; p. 670.
- Kessler, Ernst, Basel, Switzerland. Hose-coupling. No. 1,291,020; Jan. 14; v. 258; p. 266.
- Kessler, Frank, et al. (See Eckstein, Morris, assignor.)
- Kessler, Henry M., Denver, assignor of one-third to B. A. Sebring, Pueblo, Colo. Milk-treating device. No. 1,321,106; Nov. 11; v. 268; p. 204.
- Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose-acetate composition. No. 1,303,563; May 13; v. 262; p. 231.
- Kessler, Louis, assignor to Non-Explosive Device Co. Inc., Chicago, Ill. Device for preventing backfiring. No. 1,292,613; Jan. 28; v. 258; p. 701.
- Kessler, Louis, assignor to Non-Explosive Can and Tube Company, Chicago, Ill. Draw-off device for explosive liquids or the like. No. 1,306,150; June 10; v. 263; p. 203.
- Kessler, Louis, Chicago, Ill., assignor to Non-Explosive Can and Tube Company. Filling-tube for explosive-liquid receptacles. No. 1,310,240; July 15; v. 264; p. 476.
- Kessler, Louis, Chicago, Ill., assignor to Non-Explosive Can and Tube Company. Device for preventing backfiring into gasoline-receptacles or the like. No. 1,310,241; July 15; v. 264; p. 477.
- Kessler, Louis, assignor to Non-Explosive Can and Tube Company, Chicago, Ill. Filler-tube and closure therefor for receptacles. No. 1,312,695; Aug. 12; v. 265; p. 189.
- Kessler, Otto, Passaic, N. J. Swivel attachment-plug. No. 1,325,096; Dec. 16; v. 269; p. 459.
- Kester, Charles C. and C. F. Gilchrist, assignors to Electric Auto-Lite Corporation, Toledo, Ohio. Dynamo-electric machine. No. 1,319,225; Oct. 21; v. 267; p. 386.
- Kester, George I. (See Rutan and Kester.)
- Kester, George I., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,291,920; Jan. 21; v. 258; p. 510.
- Kester, Willard W., Los Angeles, Cal. Hot-vapor generator. No. 1,293,115; Feb. 4; v. 259; p. 33.
- Kestner Evaporator & Engineering Company. (See Human, Arnold H., assignor.)
- Kestner, Paul, Lille, France. Apparatus for stripping carding-machines by a vacuum. No. 1,293,798; Feb. 11; v. 259; p. 223.



## Alphabetical list of patentees—Continued.

- Kestner, Paul, Paris, France. Apparatus for enabling extracts, infusions, or decoctions to be obtained in a continuous manner. No. 1,325,298; Dec. 16; v. 269; p. 498.
- Ketch, Alva W., Rogers, Ark. Garter. No. 1,320,066; Oct. 28; v. 267; p. 568.
- Ketch, Hylas R., Decatur, Ill. Garment. No. 1,307,553; June 24; v. 263; p. 529.
- Ketchum, Carl C., and C. Ziehl, Kapowsin, Wash. Ticket-sheet. No. 1,325,477; Dec. 16; v. 269; p. 529.
- Kettler, John W., Chicago, Ill. Separator-plate. No. 1,297,478; Mar. 18; v. 260; p. 434.
- Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine starting device. No. 1,293,468; Feb. 4; v. 259; p. 115.
- Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,301,851; Apr. 29; v. 261; p. 816.
- Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company. System of selective electrical distribution. No. 1,293,467; Feb. 4; v. 259; p. 114.
- Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company. Engine starting system. No. 1,303,831; May 13; v. 262; p. 280.
- Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company. Electrical system for engines. No. 1,311,402; July 29; v. 264; p. 756.
- Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company. Electrical system for engines. No. 1,311,403; July 29; v. 264; p. 756.
- Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company. Engine starting system. No. 1,312,549; Aug. 12; v. 265; p. 161.
- Kettler, Carl W., Warwood, W. Va., assignor of one-half to A. Ingram and H. Ingram, Brooklyn, N. Y. Jar and other receptacle. No. 1,307,363; June 24; v. 263; p. 494.
- Kettler, Milton A., Washington, D. C. Fluid-drive mechanism for automobiles. No. 1,316,164; Sept. 16; v. 266; p. 333.
- Kettle, Edith F., Medford, Mass. Toy for cats. No. 1,302,174; Apr. 29; v. 261; p. 877.
- Keuffel & Esser Company. (See Campbell, Ben J., assignor.)
- Keun, Herman L., Chicago, Ill. Magnetic attachment for engines and the like. No. 1,320,624; Nov. 4; v. 268; p. 50.
- Keus, Henri I. (See Van Swanay and Keus.)
- Keuser, Emanuel Sr., Palmyra, N. J. Sash or window fastener. No. 1,305,550; June 3; v. 262; p. 61.
- Kewance Implement Company. (See Glidden, Raymond B., assignor.)
- Key Boiler Equipment Co. (See Key, Frederick E., assignor.)
- Key, Edmund A., Vancouver, British Columbia, Canada. Soap-connector. No. 1,318,567; Oct. 14; v. 267; p. 234.
- Key, Emmett M., assignor of five thirty-seconds to I. W. Patterson, one thirty-second to C. H. Veale, one thirty-second to C. Z. Wiley, and one thirty-second to E. B. Velton, Tulsa, Okla. Collapsible cot. No. 1,300,621; Apr. 15; v. 261; p. 500.
- Key, Frederick E., St. Louis, Mo. Expander. No. 1,305,808; June 3; v. 263; p. 109.
- Key, Frederick E., assignor to Key Boiler Equipment Co., St. Louis, Mo. Securing hollow tapering boiler-plugs. No. 1,302,175; Apr. 29; v. 261; p. 877.
- Key, Frederick E., assignor to Key Boiler Equipment Company, St. Louis, Mo. Grappling device. No. 1,318,087; Oct. 7; v. 267; p. 81.
- Keyes Fibre Company. (See Waterman, Frank W., assignor.)
- Keyes, Frederick G., Boston, Mass. Refrigerating apparatus. No. 1,293,469; Feb. 4; v. 259; p. 115.
- Keyes, Frederick G., Boston, Mass., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Tube manufacture. No. 1,291,921; Jan. 21; v. 258; p. 511.
- Keyes, Frederick G., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric lamp. No. 1,292,482; Jan. 28; v. 258; p. 667.
- Keyes, Frederick G., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Drawing wire filaments for incandescent electric lamps. No. 1,293,116; Feb. 4; v. 259; p. 33.
- Keyes, Frederick G., Cambridge, Mass., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Production of metallic tungsten. No. 1,293,117; Feb. 4; v. 259; p. 34.
- Keyes, Frederick G., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric lamp. No. 1,306,259; June 10; v. 263; p. 226.
- Keyes, Frederick G., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Electric lamp. No. 1,306,912; June 17; v. 263; p. 379.
- Keyes, Frederick G., Boston, Mass., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Quartz-lamp. No. 1,307,500; June 24; v. 263; p. 519.
- Keyes, Frederick G., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Manufacture of molybdenum-tungsten alloy. No. 1,308,907; July 8; v. 264; p. 193.
- Keyes, Frederick G., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Crucible. No. 1,318,452; Oct. 14; v. 267; p. 212.
- Keys, Hattie, Ellensburg, Wash. Stocking-supporter. No. 1,317,978; Oct. 7; v. 267; p. 61.
- Keys, James J., Brooklyn, N. Y. Arch-support. No. 1,317,021; Sept. 23; v. 266; p. 542.
- Keys, William A., New York, N. Y. Neckwear. No. 1,310,192; July 15; v. 264; p. 468.
- Keyser, Charles C., Pensacola, Fla. Fishing-reel attachment. No. 1,299,959; Apr. 8; v. 261; p. 333.
- Keystone Type Foundry. (See Rendle, Arthur E., assignor.)
- Keystone Type Foundry Company. (See Smith, Charles W., assignor.)
- Keystone Wire Matting Co. (See McPherson, Thomas C., assignor.)
- Keyworth, William C., Paterson, N. J. Swift for winding machines. No. 1,321,642; Nov. 11; v. 268; p. 306.
- Khalil, Seyed, Newark, assignor of one-fourth to A. Steinbrunner, Roseville, N. J. Drilling-machine. No. 1,291,922; Jan. 21; v. 258; p. 511.
- Khouri, Michel G., Rio de Janeiro, Brazil. Molding and swaging device. No. 1,308,758; July 8; v. 264; p. 166.
- Kiblinger, Gideon P., Fishersville, Va. Ensilage-packer for silos. No. 1,294,674; Feb. 18; v. 259; p. 463.
- Kibuzinski, Aleksander, Hartford, Conn. Grate for meat-smokers. No. 1,298,351; Mar. 25; v. 260; p. 646.
- Kickhafer, Edward A. (See Lemke, Charles M., assignor.)
- Kicklighter, Charles H., Atlanta, Ga. Electric welding. No. 1,310,418; July 22; v. 264; p. 541.
- Kicklighter, Charles H., Atlanta, Ga. Electric welding metal plates. No. 1,310,419; July 22; v. 264; p. 541.
- Kidder, Frank W., *et al.* (See Van Meter, John N., assignor.)
- Kidder, Frank W., Norton, Kans. Drainage-plug for water-cooling radiators. No. 1,306,186; June 10; v. 263; p. 210.
- Kidder, Wellington H., Roosevelt, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Magazine for loose leaves. No. 1,291,923; Jan. 21; v. 258; p. 511.
- Kidder, Wellington P., Boston, Mass. Carbureter. No. 1,308,595; July 1; v. 264; p. 107.
- Kidder, William C., Buffalo, N. Y. Mute for wind instruments. No. 1,307,259; June 17; v. 263; p. 441.
- Kidney, William W., assignor to American Electric Company, Chicago, Ill. Automatic stop mechanism for phonographs. No. 1,291,549; Jan. 14; v. 258; p. 388.
- Kidney, Harvey R., Cleveland, Ohio. Tractor. No. 1,321,107; Nov. 11; v. 268; p. 204.
- Kidwell, James A. (See Race and Robertson, assignors.)
- Kieckhefer, John W., assignor to Kieckhefer Paper Company, Milwaukee, Wis. Paper tube and making the same. No. 1,313,893; Aug. 26; v. 265; p. 470.
- Kieckhefer Paper Company. (See Kieckhefer, John W., assignor.)
- Kiefer, Frederick E. (See Concannon, William F., assignor.)
- Kiefer, Jean E., Lausanne, Switzerland. Machine for molding perforated bricks or building-blocks. No. 1,300,734; Apr. 15; v. 261; p. 525.
- Kiefer, Karl, Cincinnati, Ohio. Mounting for conveyer-rollers. No. 1,291,021; Jan. 14; v. 258; p. 266.
- Kiefer, Karl, Cincinnati, Ohio. Filter element. No. 1,311,280; July 29; v. 264; p. 732.
- Kiefer, Karl, Cincinnati, Ohio. Filling-machine. No. 1,313,301; Aug. 19; v. 265; p. 324.
- Kieffer, John A., Emporia, Kans. Table. No. 1,305,809; June 3; v. 263; p. 109.
- Kiehne, Fritz, Gross-Lichterfelde, near Berlin, assignor to Titania-Werk, Gesellschaft mit beschränkter Haftung, Berlin, Germany. Universal joint. No. 1,307,674; June 24; v. 263; p. 550.
- Kiehnie, Leo C., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Stand for sewing-machines. No. 1,306,763; June 17; v. 263; p. 351.
- Kiel, Clemens A., Louisville, Ky. Ball-and-socket pipe-joint. No. 1,317,193; Sept. 30; v. 266; p. 610.
- Kielland, Alfred, Trondhjem, Norway. Fitting for fastening reinforcement-belts to wooden pipes or tubes. No. 1,307,865; June 24; v. 263; p. 585.
- Kielland, Alfred, assignor to A/S. Norsk Trætor Kompani, Trondhjem, Norway. Arrangement of branch portions, &c., for wooden-stave pipes. No. 1,325,990; Dec. 23; v. 269; p. 643.
- Kienzie, Charles J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Cable attachment. No. 1,315,969; Sept. 16; v. 266; p. 297.
- Kier Letter Company. (See Ludwig, Willard M., assignor.)
- Kiernan, Thomas F., Salida, Calif. Direction-indicator for automobiles. No. 1,305,609; June 3; v. 263; p. 74.
- Kiesel, William F., Jr., Altoona, Pa. Cross equalization of spring-rigging. No. 1,293,470; Feb. 4; v. 259; p. 115.
- Kiesel, William F., Jr., Altoona, Pa. Steam-engine. No. 1,307,821; June 24; v. 263; p. 577.



- Kiesel, William F. Jr., Altoona, Pa. Crosshead. No. 1,315,513; Sept. 9; v. 266; p. 200.
- Kiesling, Gus C. (See Haussmann and Kiesling.)
- Kiessig, Oscar, Dallas, Tex. Air-regulating attachment. No. 1,301,455; Apr. 22; v. 261; p. 709.
- Kiessling, Max F., assignor to The American Fastener Company, Waterbury, Conn. Machine for making snap-fasteners. No. 1,326,132; Dec. 23; v. 269; p. 669.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,326,666; Dec. 30; v. 269; p. 806.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 1,326,667; Dec. 30; v. 269; p. 806.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Driving and stopping mechanism. No. 1,326,668; Dec. 30; v. 269; p. 806.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Thread-controlling device for sewing-machines. No. 1,326,669; Dec. 30; v. 269; p. 807.
- Kilander, Peter O. (See Millican, Joel W., assignor.)
- Kilborn, Karl B. (See Kilborn and Shively.)
- Kilborn, Karl B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Treading-machine. No. 1,309,894; July 15; v. 264; p. 414.
- Kilbourne, Arthur F., Rochester, Minn. Egg-boiling timer. No. 1,297,180; Mar. 11; v. 260; p. 342.
- Kilby, Herbert N., Cleveland, Ohio. Filter hood mechanism. No. 1,311,077; July 22; v. 264; p. 662.
- Kilchenmann, Samuel, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-injection system. No. 1,320,764; Nov. 4; v. 268; p. 76.
- Kille, Orville M., Baltimore, Md. Calculating device. No. 1,304,781; May 27; v. 262; p. 536.
- Kilgore, Charles F. (See Body, Long, Johnson, Kilgore, and Blevins.)
- Kilgore, Frederick O., Somerville, Mass. Self-starting apparatus. No. 1,300,217; Apr. 8; v. 261; p. 389.
- Kilgour, David, Vancouver, British Columbia, Canada. Drift-pin. No. 1,311,128; July 22; v. 264; p. 671.
- Kilgour, Dwight F., Lexington, Mass. Boiler. No. 1,321,755; Nov. 11; v. 268; p. 328.
- Killian, Frederick K., Syracuse, N. Y. Lubricating spring-bolt. No. 1,320,477; Nov. 4; v. 268; p. 22.
- Killark Electric Manufacturing Company. (See Johns and Trescott, assignors.)
- Killark Electric Manufacturing Company. (See Woolley, Walton D., assignor.)
- Killen, Edward B., London, England. Rubber tire. No. 1,312,124; Aug. 5; v. 265; p. 51.
- Killian, John A., Detroit, Mich. Flying-machine. No. 1,292,614; Jan. 28; v. 258; p. 701.
- Killman, Bud, Dixon, Ky. Bomb-dropping machine. No. 1,312,911; Aug. 12; v. 265; p. 232.
- Killman, Thomas A., assignor to International Moving Picture and Film Company, Nashville, Tenn. Motion-picture apparatus. No. 1,324,122; Dec. 9; v. 269; p. 213.
- Killmeyer, Joseph H., Pittsburgh, Pa. Combination furniture. No. 1,315,846; Sept. 9; v. 266; p. 259.
- Kilmer, Elmer E., Cleveland, Ohio. Window construction. No. 1,305,119; May 27; v. 262; p. 599.
- Kilmer, Harvey E. (See Aylworth and Wiersma, assignors.)
- Kilpatrick, Robert L., Hempstead, Tex. Plow. No. 1,313,194; Aug. 12; v. 265; p. 288.
- Kilpatrick, Walter W., and E. T. Booth, Atlanta, Ga. Gasolene-vending machine. No. 1,308,713; July 1; v. 264; p. 129.
- Kim, George M., Pittsburgh, Pa. Chair. No. 1,300,622; Apr. 15; v. 261; p. 501.
- Klmack, Peter, St. Louis, Mo. Switch-stand. No. 1,318,767; Oct. 14; v. 267; p. 272.
- Klmack, Peter, St. Louis, Mo. Movable center frog. No. 1,318,768; Oct. 14; v. 267; p. 272.
- Kimball, Dean G. (See Higgins, Eugene, assignor.)
- Kimball, Don L., assignor to Commercial Specialty Company, Inc., Portland, Ore. Soap-dispenser. No. 1,312,912; Aug. 12; v. 265; p. 232.
- Kimball, George H. (See Anderson, Carl P., assignor.)
- Kimball, Harry G., Bronxville, N. Y., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Loom feeder-motion. No. 1,298,352; Mar. 25; v. 260; p. 646.
- Kimball, Harry G., Bronxville, N. Y., assignor to Shawnee Mower Company, Shawnee-on-Delaware, Pa. Gang lawn-mower. No. 1,320,151; Oct. 28; v. 267; p. 583.
- Kimball, James L., Salem, assignor to Ruggles-Klingemann Mfg. Co., Boston, Mass. Automatic stop for valves. No. 1,322,906; Nov. 25; v. 268; p. 645.
- Kimball, Perley L., assignor to The Vermont Farm Machine Company, Bellows Falls, Vt. Speed-indicator. No. 1,313,389; Aug. 19; v. 265; p. 340.
- Kimball, Robert E., Cleveland, Ohio. Counter and stacker for transfers, tickets, and the like. No. 1,317,979; Oct. 7; v. 267; p. 61.
- Kimball, Robert E., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper-conveying mechanism. No. 1,297,181; Mar. 11; v. 260; p. 343.
- Kimball, Russell C., Salem, Mass. Pilot-valve. No. 1,319,006; Oct. 14; v. 267; p. 318.
- Kimbel, Martin, Auckland, New Zealand. Tire-adjuster. No. 1,307,131; June 17; v. 263; p. 419.
- Kimble, Austin, assignor to Marathon Electric Manufacturing Co., Wausau, Wis. Adjustable fan for dynamo-electric machines. No. 1,318,453; Oct. 14; v. 267; p. 212.
- Kimble, Frank, assignor of one-half to N. H. Ransom, Fort Wayne, Ind. Locking device for automobiles. No. 1,300,735; Apr. 15; v. 261; p. 525.
- Kimmel, George T., administrator. (See Boone, Selden H.)
- Kimmel, Ozro F., near Eldorado, assignor of two-thirds to E. Harris, Ebenezer, Ohio, and W. Tegarden, Richmond, Ind. Lifting device or holst. No. 1,290,232; Jan. 7; v. 258; p. 53.
- Kimney, Eugene I., Syracuse, N. Y. Resilient wheel. No. 1,314,337; Aug. 26; v. 265; p. 554.
- Kincaid, Charles W., Dallas, Tex., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fluid-dispensing apparatus. No. 1,305,289; June 3; v. 263; p. 12.
- Kincaid, William B. (See Webster and Kincaid.)
- Kinch, George E., Quirindi, New South Wales, Australia. Automatic closure and disinfecting seat-cabinet for pan-closets. No. 1,296,666; Mar. 11; v. 260; p. 227.
- Kinch, George E., Quirindi, New South Wales, Australia. Automatic shutter for sanitary closet-seats. No. 1,303,564; May 13; v. 262; p. 231.
- Kind, Edwin H., Minneapolis, Minn. Tool for applying and removing piston-rings. No. 1,319,007; Oct. 14; v. 267; p. 318.
- Kindel, Charles J., trustee. (See Phillips, James B., assignor.)
- Kindle, Charles H., Washington, D. C. Grenade. No. 1,296,403; Mar. 4; v. 260; p. 132.
- Kindling, Louis, Milwaukee, Wis. Squegee-roller. No. 1,297,694; Mar. 18; v. 260; p. 481.
- Kiner, Joseph L., Garden City, Kans. Endless conveyer for grain headers and binders. No. 1,294,675; Feb. 18; v. 259; p. 463.
- Kinetic Engineering Company. (See Martens, Ludwig A., assignor.)
- Kineto Machine Co. (See Willens, George, assignor.)
- King, Albert T., Wimbledon, and F. A. Mason, London, England. Manufacture of acetals. No. 1,312,186; Aug. 5; v. 265; p. 63.
- King Automatic Trolling Co. (See Trew, Thomas J., assignor.)
- King, Bertell W., New York, N. Y. Ejecting record-holder. No. 1,291,924; Jan. 21; v. 258; p. 512.
- King, Bertell W., New York, N. Y. Paste-ejector. No. 1,311,354; July 29; v. 264; p. 746.
- King, Bruce L. (See King, Ross L., Jr., and B. L.)
- King, Calvin P. (See Squires and King.)
- King, Charles B., Detroit, Mich. Pump. No. 1,313,700; Aug. 19; v. 265; p. 399.
- King, Charles B., and R. A. Young, assignors to The Marion Steam Shovel Company, Marion, Ohio. Metal bar. No. 1,307,054; June 17; v. 263; p. 405.
- King, Charles B., B. Jacoby, Marion, Ohio, and C. S. Johnson, Galesburg, Ill., assignors to The Marion Steam Shovel Company, Marion, Ohio. Operating device for brakes, clutches, and the like. No. 1,319,008; Oct. 14; v. 267; p. 318.
- King, Charles B., C. S. Johnson, and B. Jacoby, assignors to The Marion Steam Shovel Company, Marion, Ohio. Clutch and locking device. No. 1,298,056; Mar. 25; v. 260; p. 583.
- King, Charles F. L., Edgbarton, Birmingham, England. Fuel-supply apparatus for internal-combustion engines. No. 1,320,239; Oct. 28; v. 267; p. 599.
- King, Charles F. L., Edgbarton, Birmingham, England. Fuel-supply apparatus for internal-combustion engines. No. 1,320,240; Oct. 28; v. 267; p. 599.
- King, Charles F. L., Edgbarton, Birmingham, England. Fuel-supply apparatus for internal-combustion engines. No. 1,321,756; Nov. 11; v. 268; p. 328.
- King, Chauncey B. (See Raymond, Leonard F., assignor.)
- King, Clarence R., Worcester, Mass., assignor to Norton Company. Abrasive tool and making same. No. 1,325,504; Dec. 16; v. 269; p. 534.
- King, Claude M., Coila, Miss. Cement composition. No. 1,323,597; Dec. 2; v. 269; p. 70.
- King, Clifford G., Providence, R. I. Forming the ornamental bodies of ear-rings. No. 1,324,826; Dec. 16; v. 269; p. 410.
- King, Clifford G., Providence, R. I. Forming the ornamental bodies of ear-rings. No. 1,324,827; Dec. 16; v. 269; p. 410.
- King, Clifford G., Providence, assignor to himself, and A. I. Clark, Cranston, R. I. Bracelet. No. 1,303,220; May 6; v. 262; p. 142.
- King, D. Frank, Jr., et al. (See Helderman, Charles F., assignor.)
- King, Edward S., Brookline, Mass. Chain-link. No. 1,307,293; June 17; v. 263; p. 449.
- King, Frances R. (See Lewis, Cyril N., assignor.)
- King, Frank A., Denver, Colo. Electric-switch lock. No. 1,290,233; Jan. 7; v. 258; p. 53.



## Alphabetical list of patentees—Continued.

- King, Fred S., Checotah, Okla. Stalk-cutter. No. 1,297,182; Mar. 11; v. 260; p. 343.
- King, Frederick C., assignor to King Shipping Case Corporation, Syracuse, N. Y. Collapsible case. No. 1,322,700; Nov. 25; v. 268; p. 607.
- King, George H., and G. I. Roberts, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa. Manufacture of aluminum chlorid. No. 1,308,080; July 1; v. 264; p. 14.
- King, Gustave A., Chicago, Ill. Puzzle. No. 1,295,521; Feb. 25; v. 259; p. 681.
- King, Guy, Atlanta, Ga. Toy. No. 1,319,347; Oct. 21; v. 267; p. 408.
- King & Hamilton Company. (See Gilman, John H., assignor.) (Reissue.)
- King, Harry A., Astoria, Oreg. Lifting-jack. No. 1,320,478; Nov. 4; v. 268; p. 23.
- King, Harry O., Chicago, Ill. Shaft extension for automobile transmission-gearing. No. 1,300,174; Apr. 8; v. 261; p. 379.
- King, Henry J. and J. J., East Providence, R. I. Hoisting-machine. No. 1,315,970; Sept. 16; v. 266; p. 297.
- King, James G., Troy, Ala. Seed-planter. No. 1,297,863; Mar. 18; v. 260; p. 517.
- King, James W., et al. (See Teal, Oliver E., assignor.)
- King, Jesse C., Montreal, Quebec, Canada. Electrode and making same. No. 1,312,255; Aug. 5; v. 265; p. 75.
- King, Jesse C., Montreal, Quebec, Canada. Electrode. No. 1,312,256; Aug. 5; v. 265; p. 75.
- King, Jesse C., Montreal, Quebec, Canada. Electrode. No. 1,312,257; Aug. 5; v. 265; p. 75.
- King, Jesse C., Montreal, Quebec, Canada. Electrode. No. 1,312,258; Aug. 5; v. 265; p. 75.
- King, Jesse C., Montreal, Quebec, Canada. Electrode. No. 1,312,259; Aug. 5; v. 265; p. 76.
- King, Jesse C., Montreal, Quebec, Canada. Electrode. No. 1,312,260; Aug. 5; v. 265; p. 76.
- King, Jesse C., Montreal, Quebec, Canada. Electrode. No. 1,312,261; Aug. 5; v. 265; p. 76.
- King, Jesse C., Montreal, Quebec, Canada. Electrode. No. 1,312,262; Aug. 5; v. 265; p. 76.
- King, Jesse C., Montreal, Quebec, Canada. Electrode. No. 1,322,491; Nov. 18; v. 268; p. 517.
- King, Jesse C., La Junta, Colo. Means for measuring teeth. No. 1,323,697; Dec. 2; v. 269; p. 89.
- King, Jesse G. (See Apple and King.)
- King, John E. (See Hamor and Trigg, assignors.)
- King, John H., Philadelphia, Pa. Dancing toy. No. 1,322,456; Nov. 18; v. 268; p. 510.
- King, John J. (See King, Henry J. and J. J.)
- King, John O., Los Angeles, Calif. Hydrocarbon-burner. No. 1,311,822; July 29; v. 264; p. 833.
- King, John V. (See Brisbois and King.)
- King, Joseph, Mexico, assignor of one-fourth to G. M. Whitney and one-fourth to W. H. Bauder, New Haven, N. Y. Bean-grading machine. No. 1,316,165; Sept. 16; v. 266; p. 333.
- King, Joseph F., assignor of one-half to H. B. Haines, Philadelphia, Pa. Bleaching composition. No. 1,321,643; Nov. 11; v. 268; p. 306.
- King, Joseph F., assignor of one-half to H. B. Haines, Philadelphia, Pa. Bleaching. No. 1,321,644; Nov. 11; v. 268; p. 306.
- King, Manuel B., New Bedford, Mass. Yarn-guide. No. 1,316,452; Sept. 16; v. 266; p. 387.
- King, Patrick F. (See Parsons and King.)
- King, Percival F., Vancouver, British Columbia, Canada. Extensible cover for automobiles. No. 1,298,733; Apr. 1; v. 261; p. 26.
- King, Percival F., Vancouver, British Columbia, Canada. Umbrella. No. 1,313,899; Aug. 26; v. 265; p. 470.
- King, Ralph W. (See Wittenberg and King.)
- King, Ralph W., The Dalles, assignor to Pacific Evaporator Company, Portland, Oreg. Drier. No. 1,293,799; Feb. 11; v. 259; p. 223.
- King, Ralph W., and H. G. Miller, The Dalles, Oreg.; said King assignor to said Miller. Evaporator. No. 1,303,209; May 6; v. 262; p. 139.
- King, Robert N., et al. (See Motter and Davis, assignors.)
- King, Robert R., Richmond, Va. Accounting-sheet. No. 1,323,226; Nov. 25; v. 268; p. 707.
- King, Ross L., Jr., and B. L., Syracuse, N. Y. Auxiliary brace for automobiles. No. 1,320,695; Nov. 4; v. 268; p. 62.
- King, Roy D., assignor to Coin Controlled Lock Company, Chicago, Ill. Lock. No. 1,298,224; Mar. 25; v. 260; p. 620.
- King, Roy D., assignor to Coin Controlled Lock Company, Chicago, Ill. Lock-guard. No. 1,310,834; July 22; v. 264; p. 618.
- King, Samuel R., Glenbrook, Conn. Bottle-filling device. No. 1,325,991; Dec. 23; v. 269; p. 643.
- King Shipping Case Corporation. (See King, Frederick C., assignor.)
- King, Terry T., Fort Wayne, Ind., assignor to General Electric Company. Electromagnetic device. No. 1,315,777; Sept. 9; v. 266; p. 246.
- King, Theophilus. (See Weaver, Lucius E., assignor.)
- King, Tullie, Reynoldsburg, Ohio. Wire-splicing tool. No. 1,313,488; Aug. 19; v. 265; p. 359.
- King, William, assignor of one-half to A. Stradley, Longmont, Colo. Wrench. No. 1,316,044; Sept. 16; v. 266; p. 310.
- King, William L., Cincinnati, Ohio, assignor to General Electric Company. Elastic-fluid turbine. No. 1,297,864; Mar. 18; v. 260; p. 517.
- King, Willis C., Beaumont, Tex. Collapsible rim. No. 1,304,488; May 20; v. 262; p. 442.
- Kingan, James B., and H. F. Ripken, Minneapolis, Minn. Device for valve-gear. (Reissue.) No. 14,624; Apr. 1; v. 261; p. 181.
- Kingsbury, Albert, Pittsburgh, Pa. Horizontal thrust-bearing. No. 1,290,234; Jan. 7; v. 258; p. 53.
- Kingsbury, Albert, Pittsburgh, Pa. Thrust-bearing. No. 1,293,471; Feb. 4; v. 259; p. 115.
- Kingsbury, Elmer J., Chicago, Ill., assignor to G. H. Gamper, Columbus, Ohio. Illuminated sign or electrograph. (Reissue.) No. 14,682; July 8; v. 264; p. 324.
- Kingsbury, Harry T., Keene, N. H. Trowel. No. 1,321,055; Nov. 4; v. 268; p. 131.
- Kingsbury, William M. (See Foote and Kingsbury.)
- Kingsbury, William M., and M. L. Foote, Cleveland, Ohio. Boiler and furnace grate. No. 1,316,725; Sept. 23; v. 266; p. 488.
- Kingsley, Herbert E., and G. C. Richmond, Chicago, Ill. Photographic distance-finder. No. 1,318,155; Oct. 7; v. 267; p. 94.
- Kingston, F. C. (See Dickson, James T., assignor.)
- Kingston, Frank L., Cleveland, Ohio. Governor. No. 1,294,114; Feb. 11; v. 259; p. 297.
- Kingswood, Thomas, Brantford, Ontario, Canada. Incubator. No. 1,301,136; Apr. 22; v. 261; p. 647.
- Kinkin, John L., Garden City, Kans. Adjustable shade-roller and curtain-holder. No. 1,297,574; Mar. 18; v. 260; p. 455.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Coupling. No. 1,323,291; Dec. 2; v. 269; p. 13.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupling-lock mechanism. No. 1,323,292; Dec. 2; v. 269; p. 13.
- Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
- Kinney, Charles S., assignor of one-half to P. A. Lyle, Paso Robles, Cal. Stove. No. 1,297,183; Mar. 11; v. 260; p. 343.
- Kinney, Elizabeth C., Syracuse, N. Y. Combined spool-holder and thread-guide. No. 1,290,577; Jan. 7; v. 258; p. 136.
- Kinney, George T., Kansas City, Mo. Clamp for tire-chains. No. 1,309,635; July 15; v. 264; p. 366.
- Kinney, Harry W., Lynchburg, Va. Compound gas-engine. No. 1,320,241; Oct. 28; v. 267; p. 600.
- Kinney, John F., Humboldt, Kans. Aeroplane. No. 1,296,528; Mar. 4; v. 260; p. 159.
- Kinney, Justus R., Allston, Mass. Power-transmission device. No. 1,298,512; Mar. 25; v. 260; p. 682.
- Kinney, William E., Shelby, Nebr. Hedge-trimming machine. No. 1,293,800; Feb. 11; v. 259; p. 223.
- Kinnucan, Alfred J. (See Winans and Kinnucan.)
- Kinoikon Apparatus Corporation. (See Proctor, Barton A., assignor.)
- Kinosita, James O., Los Angeles, Calif. Electric bed-warming device. No. 1,326,133; Dec. 23; v. 269; p. 669.
- Kinread, William R., Waverley, Mass. Ash-sifter. No. 1,305,223; May 27; v. 262; p. 619.
- Kinser, Thomas J., Clairfield, Tenn. Aerial torpedo. No. 1,305,120; May 27; v. 262; p. 599.
- Kinser, Thomas J., Clairfield, Tenn. Launching device for aerial torpedoes. No. 1,317,631; Sept. 30; v. 266; p. 694.
- Kinsey, Emma A., Ridgetown, Ontario, Canada. Lady's garment-container. No. 1,320,869; Nov. 4; v. 268; p. 96.
- Kinsley, William S., Reading, Mass., assignor, by mesne assignments, to The Russell Company. Machine for introducing knickers into fabrics. (Reissue.) No. 14,724; Sept. 16; v. 266; p. 408.
- Kinsley, William S., Reading, Mass., assignor, by mesne assignments, to The Russell Company. Cleaner for fibrous stock. (Reissue.) No. 14,725; Sept. 16; v. 266; p. 408.
- Kinsman, Charles C., assignor to Universal Draft Gear Attachment Co., Chicago, Ill. Draft-arm for railway-cars. No. 1,300,847; Apr. 15; v. 261; p. 549.
- Kinsman, Clarence W., New York, N. Y. Elastic garment-fastener. No. 1,307,010; June 17; v. 263; p. 397.
- Kinsman, George N., Alpena, S. D. Plow share or lay holder. No. 1,312,696; Aug. 12; v. 265; p. 190.
- Kinter, Charles W., Wellsburg, W. Va. Feeding apparatus for pulverized coal. No. 1,319,348; Oct. 21; v. 267; p. 408.
- Kinyon, Alonzo G., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill. Locomotive fire-box. No. 1,307,364; June 24; v. 263; p. 494.
- Kinyon, Alonzo G., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill. Device for aerating powdered fuel. No. 1,307,365; June 24; v. 263; p. 494.
- Kinzbach, Frank, Sourlake, Tex. Machine for cleaning pipe-lines. No. 1,308,081; July 1; v. 264; p. 14.



- Kinzbach, Frank, assignor of one-half to O. W. Biggs, Sour-lake, Tex. Casing-head. No. 1,326,272; Dec. 30; v. 269; p. 732.
- Kinzel, George F., West Orange, N. J. Window-lock. No. 1,321,757; Nov. 11; v. 268; p. 328.
- Kipniss, Abraham, and M. P. Neumann, Brooklyn, N. Y., assignors, by mesne assignments, to American Steel Frame & Band Iron Co., Inc. Machine for making metal binding for suitcases. No. 1,317,581; Sept. 30; v. 266; p. 685.
- Kipniss, Abraham, and M. P. Neumann, Brooklyn, N. Y., assignors, by mesne assignments, to National Carbon Company, Inc. Machine for making bobbins for electric batteries. No. 1,318,882; Oct. 14; v. 267; p. 294.
- Kipniss, Abraham, and M. P. Neumann, assignors to National Carbon Company, Inc., New York, N. Y. Machine for making bobbins for electric batteries. No. 1,321,829; Nov. 18; v. 268; p. 392.
- Kipniss, Abraham, and M. P. Neumann, assignors to National Carbon Company, New York, N. Y. Machine for making bobbins for electric batteries. No. 1,321,830; Nov. 18; v. 268; p. 393.
- Kipp, Alfred J., Milwaukee, Wis., assignor to The Curtain Supply Company, Chicago, Ill. Diaphragm buffing mechanism. No. 1,313,302; Aug. 19; v. 265; p. 324.
- Kippenberg, Albert H., Pittsburgh, Pa. Jar-closure. No. 1,300,736; Apr. 15; v. 261; p. 525.
- Kipper, Herman B., Muskegon, Mich. Apparatus for producing cyanids from nitrogen or air. No. 1,322,026; Nov. 18; v. 268; p. 428.
- Kirby, Abner S., Fredericktown, Ohio. Convertible step-ladder. No. 1,323,227; Nov. 25; v. 268; p. 707.
- Kirby, Arthur, East Greenwich, London, England. Burner for liquid fuel. No. 1,312,735; Aug. 12; v. 265; p. 197.
- Kirby, Edmund B., St. Louis, Mo. Roasting ores, furnace products, ore mixtures, and the like. No. 1,316,726; Sept. 23; v. 266; p. 488.
- Kirby, Francis L., Globe, Ariz. Pistol attachment. No. 1,317,022; Sept. 23; v. 266; p. 542.
- Kirby, James B. (See Wagner, Frank J., assignor.)
- Kirby, James B., Cleveland, Ohio. Vacuum-cleaner. No. 1,294,473; Feb. 18; v. 259; p. 416.
- Kirby, James B., Cleveland, Ohio. Drain-cock. No. 1,299,480; Apr. 8; v. 261; p. 225.
- Kirby, James B., Cleveland, Ohio. Suction-cleaner. No. 1,302,929; May 6; v. 262; p. 86.
- Kirby, James B., Cleveland, Ohio. Washing-machine. No. 1,323,774; Dec. 2; v. 269; p. 103.
- Kirby, James S., Denver, Colo. Padlock. No. 1,301,572; Apr. 22; v. 261; p. 573.
- Kirby, John, Jr., Dayton, Ohio, assignor to United States Headlight Company, Buffalo, N. Y. Focusing device. No. 1,295,522; Feb. 25; v. 259; p. 681.
- Kirby, John, Jr., Dayton, Ohio, assignor to United States Headlight Company, Buffalo, N. Y. Focusing device. No. 1,295,523; Feb. 25; v. 259; p. 681.
- Kirby, John, Jr., Dayton, Ohio, assignor to United States Headlight Company, Buffalo, N. Y. Focusing device. No. 1,295,524; Feb. 25; v. 259; p. 682.
- Kirby, John, Jr., Dayton, Ohio, assignor to The United States Head-Light Company, Buffalo, N. Y. Focusing device. No. 1,298,964; Apr. 1; v. 261; p. 80.
- Kirby, John, Jr., assignor to The Dayton Manufacturing Company, Dayton, Ohio. Device for locking levers. No. 1,310,534; July 22; v. 264; p. 561.
- Kirby, John, Jr., Dayton, Ohio, assignor to The United States Head-Light Company, Buffalo, N. Y. Focusing device. No. 1,319,874; Oct. 28; v. 267; p. 532.
- Kirby, Joseph M., Boulder, Colo. Picture-projecting machine. No. 1,294,676; Feb. 18; v. 259; p. 463.
- Kircher, Paul. (See Gruenfeld and Kircher.)
- Kircher, Paul, Chicago, Ill., assignor, by mesne assignments, to Massey Concrete Products Corporation, Cribbing. No. 1,312,331; Aug. 5; v. 265; p. 88.
- Kirchhoff, Ferdinand, Sr., Manitowoc, Wis. Oven-ventilator. No. 1,308,789; July 8; v. 264; p. 171.
- Klirino, Charles, Ogden, Utah. Method and machine for peeling tomatoes. No. 1,312,332; Aug. 5; v. 265; p. 89.
- Kirk, Benjamin K., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Bell-actuating means. No. 1,300,737; Apr. 15; v. 261; p. 525.
- Kirk, Charles J., and G. Brain, New Castle, Pa. Mold for forming insulators or other porcelain objects. No. 1,304,571; May 27; v. 262; p. 497.
- Kirk, Denis W. (See Rich, Francis A., assignor.)
- Kirk, George E., Toledo, Ohio, assignor, by mesne assignments, to The Willys-Morrow Company, Inc. Bearing. No. 1,299,579; Apr. 8; v. 261; p. 247.
- Kirk, Henry C., Roland Park, Md. Aluminum alloy. No. 1,305,551; June 3; v. 263; p. 61.
- Kirk, John T., Memphis, Tenn. Colter. No. 1,308,076; July 1; v. 264; p. 122.
- Kirk, John W. (See Chapman and Kirk.)
- Kirk, Robert, Belfast, Ireland. Drawer for filing drawings, sheets of paper, linen, or the like. No. 1,306,851; June 17; v. 263; p. 367.
- Kirk, Thomas S. (See Pringle, Alexander, assignor.)
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Musical bell. No. 1,291,550; Jan. 14; v. 258; p. 389.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Chair. No. 1,291,551; Jan. 14; v. 258; p. 389.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Harp. No. 1,295,759; Feb. 25; v. 259; p. 735.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Mandolin-tailpiece. No. 1,301,059; Apr. 15; v. 261; p. 595.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Support for musical instruments. No. 1,301,060; Apr. 15; v. 261; p. 596.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Harp. No. 1,301,061; Apr. 15; v. 261; p. 596.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Musical instrument. No. 1,301,062; Apr. 15; v. 261; p. 596.
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Nut for stringed instruments. No. 1,307,501; June 24; v. 263; p. 520.
- Kirkbride, Edmund, Camden, N. J., assignor to Tybon Company, Wilmington, Del. Ribbon-inking machine. No. 1,310,625; July 22; v. 264; p. 578.
- Kirkbride, Edmund, Camden, N. J., assignor to Tybon Company, Wilmington, Del. Fabric duplicating-sheet and making it. No. 1,315,311; Sept. 9; v. 266; p. 163.
- Kirke, Percy S., Westminster, London, England. Gas-burner. No. 1,319,226; Oct. 21; v. 267; p. 386.
- Kirke, Percy S. G., London, England. Gas-fired boiler. No. 1,321,056; Nov. 4; v. 268; p. 132.
- Kirkham, Charles B., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Motor-cooling system. No. 1,294,474; Feb. 18; v. 259; p. 417.
- Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Exhaust-manifold. No. 1,294,475; Feb. 18; v. 259; p. 417.
- Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Air-heater for aeronautical motors. No. 1,326,405; Dec. 30; v. 269; p. 757.
- Kirkham, Clarence A., Hammondsport, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Motor-cylinder. No. 1,310,913; July 22; v. 264; p. 631.
- Kirkman, Thomas W., New York, N. Y. Journal-bearing. No. 1,298,734; Apr. 1; v. 261; p. 27.
- Kirkpatrick, George W., Rochester, N. Y. Direction-indicator for automobiles. No. 1,291,022; Jan. 14; v. 258; p. 266.
- Kirkpatrick, George W., Rochester, N. Y. Vehicle-signal. No. 1,298,057; Mar. 25; v. 260; p. 584.
- Kirkpatrick, James H., Ferndale, Wash. Milk-bucket. No. 1,325,852; Dec. 23; v. 269; p. 618.
- Kirkpatrick, Marion E., Apache, Okla. Corn-heading machine. No. 1,314,030; Aug. 26; v. 265; p. 505.
- Kirkpatrick, Otto B. (See Banks and Kirkpatrick.)
- Kirkpatrick, Robert S., assignor to E. Hicks, Des Moines, Iowa. Sanitary watering-trough. No. 1,319,095; Oct. 21; v. 267; p. 360.
- Kirkwood, Abraham L., Blocker, Tex. Combination measuring and transfer tank-pump. No. 1,297,865; Mar. 18; v. 260; p. 518.
- Kirkwood, Maclean, East Orange, N. J., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,319,651; Oct. 21; v. 267; p. 467.
- Kirsch, Henry L., Dayton, Ohio. Fountain attachment for brooms. No. 1,325,200; Dec. 16; v. 269; p. 479.
- Kirschbaum, John, assignor, by mesne assignments, to The Chase Companies, Incorporated, Waterbury, Conn. Curtain-fastener. No. 1,304,489; May 20; v. 262; p. 442.
- Kirschbraun, Lester, Evanston, Ill. Bituminous composition and making same. No. 1,302,810; May 6; v. 262; p. 62.
- Kirscht, William A., St. Cloud, and E. J. Sodergren, Sauk Rapids, Minn. Electric switch. No. 1,316,308; Sept. 16; v. 266; p. 360.
- Kirshner, Arthur C. (See Dorsey and Kirshner.)
- Kirtley, Simeon B., Columbia, Mo. Visible-account ledger. No. 1,291,925; Jan. 21; v. 258; p. 512.
- Kiser, William E., Stanberry, Mo. Automobile steering-clamp. No. 1,319,875; Oct. 28; v. 267; p. 532.
- Kish, Frank, Cleveland, Ohio. Agricultural implement. No. 1,295,525; Feb. 25; v. 259; p. 682.
- Kish, George, Cleveland, Ohio. Clock. No. 1,298,353; Mar. 25; v. 260; p. 646.
- Kish, Paul, Detroit, Mich. Permutation bolt-lock. No. 1,325,641; Dec. 23; v. 269; p. 578.
- Kishida, Kelsuke. (See Teijima and Kishida.)
- Kissane, John F., and F. E. Schoonmaker, Detroit, Mich. Door-locking mechanism. No. 1,306,260; June 10; v. 263; p. 227.
- Kissel, Michael J., Trenton, N. J. Bookmark. No. 1,322,796; Nov. 25; v. 268; p. 625.
- Kissick, Joseph, Jr., New York, N. Y., and C. De Ved, Philadelphia, assignors to F. W. Linaker, Dubois, Pa. Tube-cleaner for boilers. No. 1,318,294; Oct. 7; v. 267; p. 121.
- Kissinger, Jerome N. (See Kissinger, Roger and J. N.)
- Kissinger, Roger and J. N., Lykens, Pa. Dirigible headlight. No. 1,312,736; Aug. 12; v. 265; p. 197.
- Kissock, Alan, Tucson, Ariz. Making alloy steel. No. 1,300,279; Apr. 15; v. 261; p. 429.
- Kister, Thomas J., Bethlehem, Pa. Crease-preserver. No. 1,299,960; Apr. 8; v. 261; p. 333.
- Kistner, Herman, Ellzabeth, N. J. Packing-ring. No. 1,300,623; Apr. 15; v. 261; p. 501.



## Alphabetical list of patentees—Continued.

- Kisza, Ryszard, Chicago, Ill. Automobile and railway wheel. No. 1,293,118; Feb. 4; v. 259; p. 34.
- Kit Paper Box Company, The. (See Kitt, William C., assignor.)
- Kitchen, Frederick T., West New Brighton, assignor by mesne assignments, to K. & T. Chemical Corporation, New York, N. Y. Method and apparatus for producing quinone and quinol. No. 1,322,580; Nov. 25; v. 268; p. 585.
- Kitchen, John F., assignor to The Spirella Company, Meadville, Pa. Wire-binding machine. No. 1,293,119; Feb. 4; v. 259; p. 34.
- Kitchen, John G. A., Scotforth, Lancaster, England. Boat steering and reversing gear. No. 1,306,913; June 17; v. 263; p. 379.
- Kitchen, John G. A., Scotforth, Lancaster, England. Boat steering and reversing gear. No. 1,306,914; June 17; v. 263; p. 379.
- Kitchen, John G. A., Lancaster, assignor of one-half to G. H. Fraser, Liverpool, and J. K. O'Hanlon, Westwood, England. Boat steering and reversing gear. No. 1,315,514; Sept. 9; v. 266; p. 200.
- Kitchen, Peter, *et al.* (See Krizek, Joseph, assignor.)
- Kitchen, Samuel R., Buffalo, N. Y. Spring-mattress and the like. No. 1,312,125; Aug. 5; v. 265; p. 51.
- Kitchen, Wilfred B., *et al.* (See Smith, George J., assignor.)
- Kitchener, Samuel A., Los Angeles, Calif. Stand for writing-machines. No. 1,297,866; Mar. 18; v. 260; p. 518.
- Kitching, Cyrus, Chicago, Ill. Abolian harp. No. 1,305,372; June 3; v. 263; p. 27.
- Kitsee, Isidor, Philadelphia, Pa. Treating liquor from reducing processes of nitrated coal-tar derivatives. No. 1,298,513; Mar. 25; v. 260; p. 683.
- Kitsee, Isidor, Philadelphia, Pa. Color photography. No. 1,298,514; Mar. 25; v. 260; p. 683.
- Kitsee, Isidor, Philadelphia, Pa. Method and means of producing multicolored photographs. No. 1,325,992; Dec. 23; v. 269; p. 643.
- Kitt, William C., assignor to The Kit Paper Box Company, Cincinnati, Ohio. Folding box. No. 1,293,801; Feb. 11; v. 259; p. 223.
- Kittel, Berthold. (See Smith, George, assignor.)
- Kittel, George P., Union Hill, N. J. Hydrocarbon-burner. No. 1,295,526; Feb. 25; v. 259; p. 682.
- Kittelson, Halmer C., assignor to Pressed Steel Automobile Lug Company, Inc., Minneapolis, Minn. Mud-lug for automobile-tires. No. 1,312,483; Aug. 5; v. 265; p. 118.
- Kitterman, Jesse C. (See Watson and Kitterman.)
- Kittinger, Otis A., assignor to San Francisco Coffee Urn Company, San Francisco, Calif. Beverage-urn. No. 1,300,175; Apr. 8; v. 261; p. 380.
- Kitto, Harold G., Dollar Bay, Mich. Tractor-calk. No. 1,319,590; Oct. 21; v. 267; p. 455.
- Kittredge, John W., Akron, Ohio. Automatic power transmission. No. 1,311,236; July 29; v. 264; p. 724.
- Kittredge, John W., Akron, Ohio. Hoist. No. 1,318,568; Oct. 14; v. 267; p. 235.
- Kitts, Ernest K. (See McIlhenny and Kitts.)
- Kitz, Edward G., Oshkosh, Wis. Toy vehicle. No. 1,323,068; Nov. 25; v. 268; p. 676.
- Kluru, John, Fairburn, S. D. Animal-releasing device. No. 1,299,193; Apr. 1; v. 261; p. 132.
- Kiwul, Charles, New York, N. Y. Tension device. No. 1,322,119; Nov. 18; v. 268; p. 445.
- Kjekstad, Johannes, Brooklyn, N. Y. Electric-arc-welding system. No. 1,292,397; Jan. 21; v. 258; p. 626.
- Kjellgren, Axel B., Gottenborg, Sweden. Rock-drill. No. 1,317,194; Sept. 30; v. 266; p. 611.
- Kjellgren, John G., Brooklyn, N. Y., and G. H. Stephenson, assignors to The Electric Railway Improvement Company, Cleveland, Ohio. Electric welding and apparatus for use therein. No. 1,309,947; July 15; v. 264; p. 424.
- Kjerner, Ragnar L., Crestwood, N. Y. Pipe connection. No. 1,291,552; Jan. 14; v. 258; p. 389.
- Kjölstad, Andreas, Bygdø, near Christiania, Norway. Apparatus for the refilling of ditches or drains. No. 1,312,852; Aug. 12; v. 265; p. 220.
- Kläger, Hermann, Stuttgart, Germany, assignor to the Firm: Fortuna-Werke Spezialmaschinenfabrik, G. m. b. H., Stuttgart-Cannstatt, Germany. Measuring apparatus. No. 1,308,179; July 1; v. 264; p. 32.
- Klages, George W., Pittsburgh, Pa. Sheet-glass-cutter holder. No. 1,301,950; Apr. 29; v. 261; p. 835.
- Klahn, Emil, New Vernon, N. J. Gyroscope. No. 1,309,636; July 15; v. 264; p. 366.
- Klahn, Emil, New Vernon, N. J. Gyro apparatus. No. 1,309,637; July 15; v. 264; p. 366.
- Klamroth, Albert. (See Klamroth, Otto, assignor.)
- Klamroth, Otto, Liberty, assignor to A. Klamroth, New York, N. Y. Antifouling device for flags and the like. No. 1,306,915; June 17; v. 263; p. 379.
- Klamt, Moritz H. (See Yost, William F., assignor.)
- Klang, Gustaf, Tropico, Cal. Machine for forming fruit and berry basket top binding-strips. No. 1,292,802; Jan. 28; v. 258; p. 744.
- Klansnic, Joseph, Black Diamond, Wash. Safety-stop for mine-cars. No. 1,297,575; Mar. 18; v. 260; p. 455.
- Klapmeier, Elmer. (See Klapmeier, Herman C. and E.)
- Klapmeier, Herman C. and E., Mora, Minn. Ring-inserting device. No. 1,321,758; Nov. 11; v. 268; p. 328.
- Klarmann, Louis, North Bergen, N. J. Waste-pipe cleaner. No. 1,312,404; Aug. 5; v. 265; p. 103.
- Klassen, Frank, McPherson, Kans. Guiding device. No. 1,310,664; July 22; v. 264; p. 586.
- Klassen, Jacob H., Los Angeles, Cal. Cylinder-inlaying machine. No. 1,295,992; Mar. 4; v. 260; p. 39.
- Klassen, Jacob H., Los Angeles, Calif. Repairing cylinders. No. 1,322,245; Nov. 18; v. 268; p. 470.
- Klauser, William H. (See Baxter, William M., assignor.) (Reissue.)
- Klauschie, Arthur F., Omaha, Nebr. Telephone attachment. No. 1,316,366; Sept. 16; v. 266; p. 371.
- Klaue, Karl, Appleton, Wis. Cultivator. No. 1,326,065; Dec. 23; v. 269; p. 657.
- Klavens, Bertinens. (See Johnson, Olaf, assignor.)
- Klaxon Company. (See Rohland, Curt J., assignor.)
- Klaxon Company. (See Wheelock, John H., assignor.)
- Klay, Abraham B., Modesto, Cal. Machine for pressing and shaping plastic ware. No. 1,295,760; Feb. 25; v. 259; p. 735.
- Klay, Abraham B., Modesto, Calif. Dispensing and measuring apparatus for lubricants and the like. No. 1,304,327; May 20; v. 262; p. 410.
- Klay, Andrew, assignor of one-third to T. Trout, Lima, Ohio. Multiple-magazine drill-press. No. 1,320,152; Oct. 28; v. 267; p. 583.
- Kleaver, John F. (See Clark, James H., assignor.)
- Kleckler, Frank G., Bath, N. Y. Belt-shifter. No. 1,293,472; Feb. 4; v. 259; p. 115.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Triplane. No. 1,290,235; Jan. 7; v. 258; p. 54.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Tail-skid for aeroplanes. No. 1,290,236; Jan. 7; v. 258; p. 54.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Engine-bed mounting. No. 1,290,237; Jan. 7; v. 258; p. 54.
- Kleckler, Henry, assignor by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Aeroplane construction. No. 1,290,838; Jan. 7; v. 258; p. 198.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Wing construction. No. 1,291,678; Jan. 14; v. 258; p. 420.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Duplex V-strut landing-gear. No. 1,294,476; Feb. 18; v. 259; p. 417.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Tail-skid for aeroplanes. No. 1,294,477; Feb. 18; v. 259; p. 417.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Wing-post socket. No. 1,296,667; Mar. 11; v. 260; p. 227.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Fuselage-clip. No. 1,298,515; Mar. 25; v. 260; p. 683.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Aeroplane-control bridge. No. 1,298,516; Mar. 25; v. 260; p. 683.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Aeroplane-wing hinge. No. 1,306,764; June 17; v. 263; p. 351.
- Kleckler, Henry, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Landing-gear for aircraft. No. 1,306,765; June 17; v. 263; p. 352.
- Kleckler, Henry, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Control system. No. 1,311,129; July 22; v. 264; p. 671.
- Kleckner, Arthur C., and W. Brown, assignors to Webster Electric Company, Racine, Wis. Magneto. No. 1,304,782; May 27; v. 262; p. 536.
- Kleebauer, Charles P., Brooklyn, assignor to Cohoes Envelope Co., Inc., Cohoes, N. Y. Tag-envelope. No. 1,291,023; Jan. 14; v. 258; p. 266.
- Kleebauer, Charles P., Brooklyn, assignor to Cohoes Envelope Co., Inc., Cohoes, N. Y. Finger-bag envelope. No. 1,291,024; Jan. 14; v. 258; p. 267.
- Kleffel, Harrison E., New York, N. Y., assignor to The Under-Feed Stoker Company of America, Detroit, Mich. Mechanical stoker. (Reissue.) No. 1,474,747; Nov. 4; v. 268; p. 135.
- Klein, Abraham. (See Schwartz and Klein.)
- Klein, Adolf, New York, N. Y., assignor to The Beck Duplicator Company. Spindle. No. 1,314,141; Aug. 26; v. 265; p. 516.
- Klein, Albert, New York, N. Y. Attachment for water-closet seats. No. 1,308,596; July 1; v. 264; p. 107.
- Klein, Albert R., New York, N. Y. Supplying air to interiors. No. 1,296,968; Mar. 11; v. 260; p. 297.
- Klein, Albert R., Springfield, Mass. Ventilating apparatus. No. 1,303,210; May 6; v. 262; p. 139.
- Klein, Charles F., St. Louis, Mo. Machine for cutting blades. No. 1,306,261; Jun. 10; v. 263; p. 227.
- Klein, Charles H., Jersey City, N. J., assignor to American Telephone and Telegraph Company. Combination tool. No. 1,318,088; Oct. 7; v. 267; p. 81.



*Alphabetical list of patentees—Continued.*

- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,306,852; June 17; v. 263; p. 367.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Company, Milwaukee, Wis. Electric switch. No. 1,307,748; June 24; v. 263; p. 564.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,312,550; Aug. 12; v. 265; p. 161.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Attachment-plug. No. 1,312,551; Aug. 12; v. 265; p. 161.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,313,701; Aug. 19; v. 265; p. 399.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,316,900; Sept. 23; v. 266; p. 519.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,321,645; Nov. 11; v. 268; p. 306.
- Klein, Erwin, Peekskill, N. Y., assignor to The Fleischmann Company, Cincinnati, Ohio. Apparatus for the concentration of vinegar and acetic acid. No. 1,291,025; Jan. 14; v. 258; p. 267.
- Klein, Frank. (See Trost and Klein.)
- Klein, Fred J. (See Stafford and Klein.)
- Klein, Frederick, trustee. (See Williams, Frederic S., assignor.)
- Klein, Henry S., Milwaukee, Wis. Background-carrier. No. 1,299,481; Apr. 8; v. 261; p. 225.
- Klein, Jacob, Havelock, Nebr. Chicken-fence. No. 1,319,290; Oct. 21; v. 267; p. 397.
- Klein, John, Washington, D. C. Dumping-vehicle. No. 1,314,405; Aug. 26; v. 265; p. 568.
- Klein, Joseph L., Two Rivers, Wis. Package-tie. No. 1,320,765; Nov. 4; v. 268; p. 76.
- Klein, Mathias J., assignor of sixty one-hundredths to H. B. Roelker, New York, N. Y. Side-force and danger indicator. No. 1,309,574; July 8; v. 264; p. 318.
- Klein, Oskar K., Cleveland, Ohio. Permutation-lock for electric switches. No. 1,314,749; Sept. 2; v. 266; p. 52.
- Klein, William, *et al.* (See Arnheim, Lewis, assignor.)
- Klein, William J., Buffalo, N. Y. Combined bell and buzzer. No. 1,293,120; Feb. 4; v. 259; p. 34.
- Kleine, Franklin M., Minneapolis, Minn. Wrench. No. 1,309,860; July 15; v. 264; p. 407.
- Kleineider, Peter, Cudahy, Wis. Water-cooled refrigerator. No. 1,310,665; July 22; v. 264; p. 586.
- Kloibert, Karl, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Search-light. No. 1,295,761; Feb. 27; v. 259; p. 736.
- Kleinbuckle, Edward, Millvale, Pa. Abrasive tool. No. 1,321,759; Nov. 11; v. 268; p. 329.
- Kleinkauf, Samuel E. (See Bonnard and Kleinkauf.)
- Kleinkopf, Clifford E., Sciota, Ill. Wrench. No. 1,318,441; Oct. 14; v. 267; p. 213.
- Kleiman, Nathaniel W., Brooklyn, N. Y. Direction-indicator. No. 1,316,486; Sept. 16; v. 266; p. 394.
- Kleinschmidt, Anthony F., Indianapolis, Ind. Extensible automobile-door. No. 1,325,790; Dec. 23; v. 269; p. 606.
- Kleinschmidt, Edward E., assignor to Kleinschmidt Electric Company, Inc., Brooklyn, N. Y. Keyboard telegraphic transmitter. No. 1,317,506; Sept. 30; v. 266; p. 670.
- Kleinschmidt Electric Company. (See Kleinschmidt, Edward E., assignor.)
- Kleinschmidt, Henry F. A., Johnstown, Pa. Adjustable wheel and axle. No. 1,315,672; Sept. 9; v. 266; p. 227.
- Kleissl, Friedrich, Pole, Austria. Game. No. 1,295,993; Mar. 4; v. 260; p. 29.
- Klell, Albert, West Park, Ohio. Hose-coupling. No. 1,260,414; Apr. 15; v. 261; p. 457.
- Klema, Joseph N., Austin, Minn. Lantern. No. 1,313,390; Aug. 19; v. 265; p. 340.
- Klema, Joseph N., Austin, Minn. Lantern. No. 1,323,698; Dec. 2; v. 269; p. 89.
- Klemm, Emil R. (See McCanna and Klemm.)
- Klemme, A. C., Davenport, Iowa. Automobile-hoist. No. 1,306,439; June 10; v. 263; p. 258.
- Klemme, A. C., Davenport, Iowa. Automobile-hoist. No. 1,306,441; June 10; v. 263; p. 258.
- Klems, Albert A., assignor of one-third to C. E. Bown, Los Angeles, Calif. Grease-cup. No. 1,304,328; May 20; v. 262; p. 410.
- Klenck, John H., Warren, Pa. Device for ripping seams. No. 1,275,422; Sept. 9; v. 266; p. 163.
- Klonert, William. (See Kaufman, Joseph, assignor.)
- Kloetzke Max, New York, N. Y. Soaping implement. No. 1,290,228; Jan. 7; v. 258; p. 54.
- Kloetzky, Max, New York, N. Y. Nursing-bottle supporter. No. 1,304,066; May 20; v. 262; p. 361.
- Kloek, George, Rexburg, Idaho. Barbed wire. No. 1,294,677; Feb. 18; v. 259; p. 461.
- Kloft Manufacturing Co. (See Klett, Robert E., assignor.)
- Klett, Robert E., New York, N. Y., assignor to Klett Manufacturing Co., Inc. Bone-clamp. No. 1,302,176; Apr. 29; v. 261; p. 877.
- Klett, Robert E., Ridgefield Park, N. J., assignor to Klett Manufacturing Co., Inc. Colorimeter. No. 1,324,160; Dec. 9; v. 269; p. 220.
- Kletzy, Harry. (See Shewchuk, John, assignor.)
- Kleucker, George M., St. Louis, Mo. Distributing-trough for condensers. No. 1,291,926; Jan. 21; v. 258; p. 513.
- Kliemant, Robert M., Baltimore, Md. Game. No. 1,325,201; Dec. 16; v. 269; p. 480.
- Klima, John, Taylor, Tex. Automobile attachment. No. 1,317,084; Sept. 23; v. 266; p. 554.
- Klimowicz, Paul, Stevens Point, Wis. Changeable window display-sign. No. 1,305,121; May 27; v. 262; p. 599.
- Klin, Martin D., Chicago, Ill. Golf-club. No. 1,318,325; Oct. 7; v. 267; p. 128.
- Klindworth, John L. (See Porter and Klindworth.)
- Kline, Charles D., Cleveland, Ohio. Headlight. No. 1,295,905; Mar. 4; v. 260; p. 19.
- Kline, Charles R., Reading, Pa. Furnace insulation. No. 1,319,096; Oct. 21; v. 267; p. 360.
- Kline, Clarence A., San Francisco, Calif. Device for placing bifocal segments on lenses. No. 1,323,190; Nov. 25; v. 268; p. 700.
- Kline, Edward A., Montreal, Quebec, Canada, assignor to American Can Company, New York, N. Y. Cigar-box. No. 1,310,835; July 22; v. 264; p. 618.
- Kline, Ferdinand E., Carbondale, Ill. Portable garage. No. 1,318,769; Oct. 14; v. 267; p. 272.
- Kline, Fred H., Los Angeles, Calif. Pipe-cover. No. 1,307,978; June 24; v. 263; p. 607.
- Kline, Jacob B., Thurman, Iowa. Dish-washing machine. No. 1,323,989; Dec. 2; v. 269; p. 144.
- Kline, John B., and W. H. Jacobsen, Minneapolis, Minn. Vaporizer for internal-combustion engines. No. 1,316,960; Sept. 23; v. 266; p. 530.
- Kline, John C., assignor to D. J. Carney, Tacoma, Wash. Intake-manifold attachment for internal-combustion engines. No. 1,291,927; Jan. 21; v. 258; p. 513.
- Kling, George J., St. Paul, Minn. Bread-board. No. 1,313,900; Aug. 26; v. 265; p. 470.
- Kling, Orlando, Denver, Colo. Blotter and ruler. No. 1,294,478; Feb. 18; v. 259; p. 418.
- Kling, Peter M., Laconia, N. H. Post for windows. No. 1,307,822; June 24; v. 263; p. 577.
- Klingberg, William A., Afton, Okla. Window-shield. No. 1,290,239; Jan. 7; v. 258; p. 55.
- Klinge, William, Alexandria, Va. Automatic gripping-pin. No. 1,315,369; Sept. 9; v. 266; p. 174.
- Klinger, Frederick J., Saginaw, Mich. Rotary internal-combustion engine. No. 1,324,506; Dec. 9; v. 269; p. 288.
- Klingler, Paul C., Trenton, N. J. Stop-motion for circular-knitting machines. No. 1,292,803; Jan. 28; v. 258; p. 745.
- Klinglesmith, Lee, Cecilia, Ky. Bush-puller. No. 1,321,316; Nov. 11; v. 268; p. 245.
- Klink, Charles, North Fayette township, Allegheny county, assignor of one-third to L. G. Yost and one-third to W. S. Lockhart, McDonald, Pa. Safety switch mechanism. No. 1,324,903; Dec. 16; v. 269; p. 423.
- Klinker, Lawrence, San Francisco, Calif. Wheel-lock. No. 1,311,404; July 29; v. 264; p. 756.
- Klinkhamer, Hendrik A. W., Delft, Netherlands. Securing stability for the parallel operation of two direct-current machines. No. 1,317,877; Oct. 7; v. 267; p. 41.
- Klinzing, August F., New Holstein, Wis. Track-hanger. No. 1,322,309; Nov. 18; v. 268; p. 482.
- Klipstein, Herman, Groton, S. D. Auxiliary air-valve for engines. No. 1,325,791; Dec. 23; v. 269; p. 606.
- Klix Manufacturing Company. (See Harris, Varian M., assignor.)
- Klix Manufacturing Company. (See Jones, Howard B., assignor.)
- Klocke, William, New York, assignor to Pressed Bearing Company, Inc., Brooklyn, N. Y. Apparatus for forming lined bushings. No. 1,290,578; Jan. 7; v. 258; p. 136.
- Klocke, William, New York, assignor to Pressed Bearing Inc., Brooklyn, N. Y. Method for making lined bearings. No. 1,302,563; May 6; v. 262; p. 16.
- Klocke, William, assignor to Pressed Bearing Company, Inc., Brooklyn, N. Y. Making lined bearings. No. 1,302,564; May 6; v. 261; p. 16.
- Kloos, Frederick J. (See Joseph, Carl, assignor.)
- Klooman, Theodore W., Park Ridge, N. J. Internal-combustion engine. No. 1,319,398; Oct. 21; v. 267; p. 418.
- Kloos, John. (See Hively and Kloos, assignors.)
- Klopf, Frederick M., deceased, Newark, N. J., assignor of one-half to J. H. Lehman, East Orange, N. J.; J. L. Klopf, administrator. Separable fastener. No. 1,301,573; Apr. 22; v. 261; p. 731.
- Klopf, Jessie L., administratrix. (See Klopf, Frederick M.)
- Klopfenstein, Robert S., and S. C. Brier, assignors to The National Lock-In-Tank Company, Wichita, Kans. Fluid-control lock for tanks. No. 1,297,184; Mar. 11; v. 260; p. 343.
- Klopsteg, Paul E., Minneapolis, Minn. Galvanometer-chronoscope. No. 1,323,477; Dec. 2; v. 269; p. 48.



## Alphabetical list of patentees—Continued.

- Klorer, Charles P., East Conemaugh, assignor of two-thirds to J. E. Zang, Johnstown, Pa. Joint for combined spot-light and trouble lamps. No. 1,309,360; July 8; v. 264; p. 278.
- Klosters Aktie Bolag. (See Ohlsson, Johan A., assignor.)
- Klots, Ephraim D., New York, N. Y. Ozonizer. No. 1,322,796; Nov. 25; v. 268; p. 625.
- Klotz, Simon, Birmingham, Ala., and Simon Lazarus, Louisville, Ky. Safety-envelope. No. 1,307,447; June 24; v. 263; p. 510.
- Kluchansky, Eugene W., New York, N. Y. Sublimation apparatus. No. 1,304,572; May 27; v. 262; p. 497.
- Klucina, John, Cicero, Ill. Ash-pan. No. 1,308,245; July 1; v. 264; p. 44.
- Klugh, Bethune G. (See Swart and Klugh.)
- Klugh, Paul B., assignor to The Cable Company, Chicago, Ill. Marking and perforating sheets. No. 1,310,420; July 22; v. 264; p. 541.
- Klugh, Paul B., assignor to The Cable Company, Chicago, Ill. Automatic musical instrument. No. 1,324,453; Dec. 9; v. 269; p. 278.
- Klump, Edward A., Pleasant township, Fairfield county, Ohio. Hog-feeder. No. 1,303,917; May 20; v. 262; p. 334.
- Klundt, George, Streeter, N. D. Air-pump. No. 1,309,528; July 8; v. 264; p. 309.
- Klyne, Claud H., Sheerness, and C. J. Baker, Westminster, London, England. Electric insulation. No. 1,323,191; Nov. 25; v. 268; p. 700.
- Kmicinski, Paul, Chicago, Ill. Fencepost. No. 1,318,326; Oct. 7; v. 267; p. 128.
- Knab, Henri, Paris, France. Micrometric tracing-gage. No. 1,322,302; Nov. 18; v. 268; p. 480.
- Knadler, Frederick, assignor to The National Malleable Castings Company, Cleveland, Ohio. Mold for casting chains. No. 1,314,874; Sept. 2; v. 266; p. 74.
- Knaier, Emerson C., assignor to J. S. Evans, Seattle, Wash. Device for receiving coins. No. 1,303,211; May 6; v. 262; p. 140.
- Knall, Nettie E., Phoenix, Ariz. Game. No. 1,303,482; May 13; v. 262; p. 216.
- Knapenberger, Lester B., Limestone, N. Y. Boltless clamp. No. 1,320,556; Nov. 4; v. 268; p. 38.
- Knapp, A. C., Victoria, Ill. Torpedo-guard for ships. No. 1,324,904; Dec. 16; v. 269; p. 424.
- Knapp, A. C., Victoria, Ill. Corn-planter. No. 1,326,872; Dec. 30; v. 269; p. 845.
- Knapp, Charles J., assignor to Modern Tool Company, Erie, Pa. Collapsing tap. No. 1,304,574; May 27; v. 262; p. 497.
- Knapp, David R., Pottsville, Pa. Safety limit-switch. No. 1,299,839; Apr. 8; v. 261; p. 307.
- Knapp, George P., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Shade-holder for porcelain work. No. 1,297,362; Mar. 18; v. 260; p. 411.
- Knapp, Horace G. and R. I. San Jose, Calif. Clutch. No. 1,326,066; Dec. 23; v. 269; p. 657.
- Knapp, Ismond E., Jr. (See Taylor, George G., assignor.)
- Knapp, Joseph G., Omaha, Nebr. Primary-ignition-circuit breaker. No. 1,294,678; Feb. 18; v. 259; p. 464.
- Knapp, Robert I. (See Knapp, Horace G. and R. I.)
- Knapp, William A., assignor to C. Schwartz, trustee, Washington, D. C. Fitting cast-iron articles to other bodies in connection with which they work and product. No. 1,307,979; June 24; v. 263; p. 607.
- Knaster, Ignatius, Cambridge, England. Closure for collapsible tubes and other receptacles. No. 1,316,309; Sept. 16; v. 266; p. 360.
- Knauff, Edward J. (See Eis and Knauff.)
- Knauff, George C., Chicago, Ill., assignor to Edmunds & Jones Corporation, Detroit, Mich. Switching-socket. No. 1,298,354; Mar. 25; v. 260; p. 647.
- Knauss, Edward, New York, N. Y. Carbureter for gasoline-engines. No. 1,304,988; May 27; v. 262; p. 574.
- Kneass, Strickland L., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Starting-valve mechanism. No. 1,300,280; Apr. 15; v. 261; p. 429.
- Kneass, Strickland L., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Injector. No. 1,318,089; Oct. 7; v. 267; p. 81.
- Knebel, Richard, New Britain, Conn. Drill-chuck. No. 1,318,090; Oct. 7; v. 267; p. 81.
- Knecht, Heinrich, and J. Scherrer, Neuhausen, Switzerland. Arrangement for changing the gage of railway-vehicles. No. 1,304,490; May 20; v. 262; p. 442.
- Knecht, Oscar, assignor to Chemical Works, formerly Sandoz, Basel, Switzerland. Production of blue sulfur dyes. No. 1,302,671; May 6; v. 262; p. 36.
- Kneeder, John D., assignor of one-half to B. Couch, Sioux City, Iowa. Heat and power producing apparatus. No. 1,297,363; Mar. 18; v. 260; p. 411.
- Knell, Andrew, Jr. (See Hooper and Knell.)
- Knell, Andrew, Jr., Baltimore, Md. Device for preventing theft of automobiles. No. 1,313,544; Aug. 19; v. 265; p. 370.
- Knickerbocker, William B., Jackson, Mich. Woodworking-machine. No. 1,300,415; Apr. 15; v. 261; p. 457.
- Knierim, William H., New York, N. Y. Fuel feeding and indicating means. No. 1,293,474; Feb. 4; v. 259; p. 116.
- Knige, Otto C., New York, N. Y. Refuse-collecting truck. No. 1,324,675; Dec. 9; v. 269; p. 320.
- Knight, Alfred H., Hoboken, N. J. Hat-rack. No. 1,294,916; Feb. 18; v. 259; p. 519.
- Knight American Patent Company. (See Knight, Charles Y., assignor.)
- Knight American Patents Company. (See Porter, Finley R., assignor.)
- Knight, Amos L., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Fluid-pressure apparatus. No. 1,300,281; Apr. 15; v. 261; p. 429.
- Knight, Amos L., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Making matrices for casting elements of printing-forms. No. 1,307,675; June 24; v. 263; p. 550.
- Knight, Amos L., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix for casting elements of printing-forms. No. 1,307,676; June 24; v. 263; p. 550.
- Knight, Arthur F. (See Chadbourne and Knight.)
- Knight, Cecil Y., and W. N. Wilson, assignors to The Morgan Crucible Company, Limited, Battersea, London, England. Applying insulated pieces to carbon brushes. No. 1,298,965; Apr. 1; v. 261; p. 80.
- Knight, Charles D., et al. (See Pons, Eugene, assignor.)
- Knight, Charles Y., Pasadena, Calif., assignor to The Knight American Patent Company, Chicago, Ill. Mechanism for facilitating the starting of internal-combustion engines. No. 1,305,905; June 3; v. 263; p. 127.
- Knight, Edward M., Ottawa, Ontario, Canada. Filter. No. 1,318,388; Oct. 14; v. 267; p. 200.
- Knight, George H., London, and H. G. Thackray, assignors to Hudson Scott & Sons, Limited, Carlisle, England. Label and capsule. No. 1,303,212; May 6; v. 262; p. 140.
- Knight, Herbert, New York, N. Y. Heel. No. 1,309,480; July 8; v. 264; p. 300.
- Knight, Herbert, New York, N. Y., and F. L. Nichols, Stamford, Conn., assignors to International Munitions Company, Inc. Military grenade. No. 1,316,367; Sept. 16; v. 266; p. 370.
- Knight, Herbert M., Rome, N. Y. Key. No. 1,294,115; Feb. 11; v. 259; p. 297.
- Knight, Ira W., assignor to General Fire Extinguisher Company, Providence, R. I. Safety device for gas-burners. No. 1,320,696; Nov. 4; v. 268; p. 63.
- Knight, John A., Hamilton, Ontario, Canada, assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,299,736; Apr. 8; v. 261; p. 283.
- Knight, John S., La Jara, Colo. Trap-stake. No. 1,309,036; July 8; v. 264; p. 218.
- Knight, Julian G., New York, N. Y. Outlet-box. No. 1,302,057; Apr. 29; v. 261; p. 856.
- Knight, Ralph F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,295,330; Feb. 25; v. 259; p. 636.
- Knight, Ralph F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for setting eyelets. No. 1,297,695; Mar. 18; v. 260; p. 481.
- Knight, Richard, Middletown, N. Y. Toy gun. No. 1,316,045; Sept. 16; v. 266; p. 310.
- Knight, Stanley H., Chicago, Ill. Dispensing-faucet. No. 1,323,069; Nov. 25; v. 268; p. 676.
- Knight, William L., Flint, Mich. Bean-harvester. No. 1,297,867; Mar. 18; v. 260; p. 518.
- Knipp, Peter J., Ellinwood, Kans. Stack-securing apparatus. No. 1,297,868; Mar. 18; v. 260; p. 518.
- Knittel, Paul S., assignor to American Pulverizer Company, St. Louis, Mo. Feeder for crushers and pulverizers. No. 1,318,389; Oct. 14; v. 267; p. 200.
- Knobloch, Alvin F. (See Heinze, John O., assignor.)
- Knobloch, Barney F., Pittsburgh, Pa. Attaching device for non-skid chains. No. 1,290,579; Jan. 7; v. 258; p. 136.
- Knoblock, Andrew J. (See Le Compte, Leon G., assignor.)
- Knoblock, Carola, et al. (See Knoblock, William, assignor.)
- Knoblock, Frederik E., assignor to The Graton & Knight Manufacturing Company, Worcester, Mass. Work-support for sewing-machines. No. 1,300,848; Apr. 15; v. 261; p. 549.
- Knoblock, James W., New York, assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Combined hook and handle for lanterns. No. 1,301,574; Apr. 22; v. 261; p. 731.
- Knoblock, James W., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Portable searchlight. No. 1,309,140; July 8; v. 264; p. 237.
- Knoblock, James W., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Portable searchlight. No. 1,316,246; Sept. 16; v. 266; p. 348.
- Knoblock, William, assignor of one-fourth to C. Knoblock, one-third to W. J. Graham, and one-third to J. Lamon, Philadelphia, Pa. Electric storage battery. No. 1,297,185; Mar. 11; v. 260; p. 344.
- Knoderer, Homer G., Edgeworth, and C. R. Hubbard, Baden, assignors to National Metal Molding Company, Pittsburgh, Pa. Electrical-conduit installation. No. 1,302,811; May 6; v. 262; p. 62.
- Knol, Clarence, Grand Rapids, Mich. Collapsible barrel. No. 1,321,317; Nov. 11; v. 268; p. 245.



- Knoll, Reinhold, Irvington, N. J. Pipe-coupling. No. 1,318,674; Oct. 14; v. 267; p. 255.
- Knoll, William V., receiver. (See Ruff, Oliver A., assignor.)
- Knoos, Godfrey, Jr., Philadelphia, Pa. Playing-cards. No. 1,314,522; Sept. 2; v. 266; p. 9.
- Knopp, Julius W., Toledo, Ohio. Liquid-fuel burner. No. 1,318,883; Oct. 14; v. 267; p. 295.
- Knopp, Julius W., Toledo, Ohio. Engine-starting device. No. 1,321,057; Nov. 4; v. 268; p. 132.
- Knopp, Max, New York, N. Y. Hydraulic mold. No. 1,295,042; Feb. 18; v. 259; p. 547.
- Knopp, Otto A., Oakland, Calif. Electric watt-hour meter. No. 1,300,176; Apr. 8; v. 261; p. 380.
- Knopp, Rudolph, and J. G. Biehler, Rochester, N. Y., assignors of one-fifth to F. Keiper. Labeling-machine. No. 1,299,194; Apr. 1; v. 261; p. 132.
- Knostman, George H., Minster, Ohio. Egg-carrier. No. 1,324,828; Dec. 16; v. 269; p. 410.
- Knoth, Conrad. (See Weis and Knoth.)
- Knott, Clarence B., New York, N. Y. Roll-film-camera attachment. No. 1,317,085; Sept. 23; v. 266; p. 554.
- Knott, Eustace R., Sharon, Mass. Popcorn-mixing machine. No. 1,320,766; Nov. 4; v. 268; p. 76.
- Knott, Eustace R., Sharon, Mass. Automatic machine for making cakes. No. 1,326,067; Dec. 23; v. 269; p. 657.
- Knott, Harry H., C. J. Jungbluth, and E. B. Hammer, Washington, Iowa. Making pearl-button blanks. No. 1,315,673; Sept. 9; v. 266; p. 227.
- Knottenbelt, Harmen W., The Hague, Netherlands. Manufacture of fuel for explosion-motors or other combustion-engines. No. 1,317,582; Sept. 30; v. 266; p. 685.
- Knotts, Addison B., Ramos, La. Cane-harvesting machine. No. 1,295,331; Feb. 25; v. 259; p. 636.
- Knowles, Carroll, Cranston, assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Grinding-machine. No. 1,324,123; Dec. 9; v. 269; p. 213.
- Knowles, Carroll, Cranston, and H. D. Tanner, assignors to Brown and Sharpe Manufacturing Company, Providence, R. I. Grinding-machine. No. 1,324,124; Dec. 9; v. 269; p. 214.
- Knowles, Edwin M. (See Irwin, Dewitt D., assignor.)
- Knowles, James K., Toronto, Ontario, Canada. Veneer-feeding device for match-machines. No. 1,293,802; Feb. 11; v. 259; p. 223.
- Knowles, Robert S., et al. (See Kendrick, William D., assignor.)
- Knowles, Thomas R., West Bromwich, England. Manufacture of rolled wheels and disks. No. 1,306,262; June 10; v. 263; p. 227.
- Knowing, George, Jr., St. John, Newfoundland. Demountable rim. No. 1,313,824; Aug. 19; v. 265; p. 422.
- Knowlson, James S., Oak Park, assignor to Electro-Magnetic Tool Company, Chicago, Ill. Electrically-operated tool. No. 1,298,966; Apr. 1; v. 261; p. 80.
- Knowlton, Charles E. (See Marshall and Knowlton.)
- Knowlton, Cutler D., Rockport, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Resilient mounting for machinery. No. 1,309,759; July 15; v. 264; p. 389.
- Knowlton, Edward L. (See Whitley and Knowlton.)
- Knowlton, Norwood H., Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for mounting shoes on lasts. No. 1,318,499; Oct. 14; v. 267; p. 221.
- Knox, Frederick L. (See Wooster and Knox.)
- Knox, George F., Milwaukee, Wis., assignor to The Unit Ice Machine Co. Refrigerating-compressor. No. 1,321,923; Nov. 18; v. 268; p. 410.
- Knox, George W., Winchester, Va. Animal-poke. No. 1,322,120; Nov. 18; v. 268; p. 445.
- Knox, Luther L., Bellevue, assignor to Blaw-Knox Company, Pittsburgh, Pa. Furnace. No. 1,315,971; Sept. 16; v. 266; p. 297.
- Knox Motors Company. (See Gurney, Erving R., assignor.)
- Knox, Orville M., Knoxboro, N. Y. Rail-fastener. No. 1,315,132; Sept. 2; v. 266; p. 120.
- Knox, William J., New York, N. Y., and J. P. Mallet, Elizabeth, N. J., assignors to General Research Laboratories, New York, N. Y. Apparatus for ozone generation. No. 1,312,484; Aug. 5; v. 265; p. 119.
- Knudsen, Barney C., Montclair, N. J. Sled. No. 1,298,355; Mar. 25; v. 260; p. 647.
- Knudsen, Chresten, Portland, Me. Safety-hook. No. 1,324,676; Dec. 9; v. 269; p. 320.
- Knudsen, Hans L., St. Charles, Mo. Coal-dust and liquid-fuel engine. No. 1,306,596; June 10; v. 263; p. 288.
- Knudsen, Knud, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Switch-lock. No. 1,309,361; July 8; v. 264; p. 278.
- Knudsen, Knud, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Quick-break switch. No. 1,309,895; July 15; v. 264; p. 414.
- Knudsen, Knud, assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Inclosed switch. No. 1,310,163; July 15; v. 264; p. 463.
- Knudson, Frank, et al. (See Osten, James H., assignor.)
- Knudson, John L., Lakewood, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio. Welding-torch. No. 1,319,097; Oct. 21; v. 267; p. 360.
- Knudson, Martin N., Hollister, Idaho, assignor of one-half to A. E. Caldwell, Twin Falls, Idaho. Spring control and shock-absorber for automobiles. No. 1,307,502; June 24; v. 263; p. 520.
- Knudtson, Ole A. (See Sorlien and Knudtson.)
- Knüsil, Emile, assignor to the Firm of Pito A.-G., Zurich, Switzerland. Flushing device with air-tight vessels for water-closets. No. 1,293,121; Feb. 4; v. 259; p. 34.
- Knutson, Alfred H., McVillie, N. D. Bandage. No. 1,301,708; Apr. 22; v. 261; p. 758.
- Knutson, Alfred W., assignor to Rowe Manufacturing Co., Galesburg, Ill. Hoisting device for elevated carriers. No. 1,296,814; Mar. 11; v. 260; p. 260.
- Knutson, Alfred W., Galesburg, assignor to G. G. Bayne, Bushnell, Ill. Scoop-gate. No. 1,326,274; Dec. 30; v. 269; p. 733.
- Knutson, Alfred W., assignor, by mesne assignments, to Shaw, Welsh & Company, Galesburg, Ill. Automatic stock-feeder. No. 1,326,273; Dec. 30; v. 269; p. 733.
- Knutson, August, Mapleton, Minn. Seed-corn tester. No. 1,293,803; Feb. 11; v. 259; p. 224.
- Knutson, August, Mapleton, Minn. Heat-regulator for dough-raisers. No. 1,311,823; July 29; v. 264; p. 834.
- Kny-Scheerer Corporation, The. (See Moering, Alexander K., assignor.)
- Knyvett, Reginald H., New York, N. Y. Wrist-watch. No. 1,309,988; July 15; v. 264; p. 432.
- Kobe, Charles, Butte, Mont. Rail-retaining device. No. 1,290,240; Jan. 7; v. 258; p. 55.
- Kober, Frank H., Merrick, N. Y. Last. No. 1,295,332; Feb. 25; v. 259; p. 636.
- Kobert, Frank P., Amityville, N. Y. Electric riveting apparatus. No. 1,309,638; July 15; v. 264; p. 367.
- Koch, Frank. (See Granville and Koch.)
- Koch, George, assignor to Dr. E. Cadgene and O. Berg, Paterson, N. J. Loom for weaving pile fabrics. No. 1,305,373; June 3; v. 263; p. 27.
- Koch, Hans, Dietikon, Switzerland. Molding-machine. No. 1,317,710; Oct. 7; v. 267; p. 10.
- Koch, Hugo F., New York, N. Y. Heater. No. 1,298,517; Mar. 25; v. 260; p. 683.
- Koch, Lydia B. (See Drasser, George H., Jr., assignor.)
- Koch, Lydia B. (See Thompson, Henry B., assignor.)
- Koch, Michael. (See Koch and Gales.)
- Koch, Michael. (See Koch, William H. and M.)
- Koch, Robert. (See Hinz and Koch.)
- Koch, Rudolph C. (See Cogozzo, Antonio, assignor.)
- Koch, William F. (See Walpuski and Koch.)
- Koch, William F., Hillside, Colo. Hay-cocking machine. No. 1,310,573; July 22; v. 264; p. 569.
- Koch, William F., Hillside, Colo. Mowing-machine. No. 1,321,058; Nov. 4; v. 268; p. 132.
- Koch, William H. and M., Independence, Iowa. Teat-cup for milking-machines. No. 1,308,082; July 1; v. 264; p. 14.
- Koch, William H. and M., Independence, and N. W. Gales, Waterloo, Iowa. Teat-cup for milking-machines. No. 1,322,311; Nov. 18; v. 268; p. 482.
- Kochenberger, Paul, Avon, Pa. Railway-crossing signal. No. 1,320,153; Oct. 28; v. 267; p. 584.
- Kochendarfer, Sirius E., Washington, Pa. Rotary engine. No. 1,302,930; May 6; v. 262; p. 86.
- Kochendorfer, Frederic S., Oak Park, and H. Blount, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Machine for coating wire. No. 1,303,070; May 6; v. 262; p. 112.
- Kochendorfer, Frederic S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Hydraulic press. No. 1,307,586; June 24; v. 263; p. 534.
- Kochenkoff, Theodore, New York, N. Y. Cuff-button. No. 1,323,699; Dec. 2; v. 269; p. 89.
- Kocourek, Henry, Chicago, Ill. Priming device for internal-combustion engines. No. 1,293,804; Feb. 11; v. 259; p. 224.
- Koecis, Elias, Alliance, Ohio. Railroad-engine wheel. No. 1,316,487; Sept. 16; v. 266; p. 394.
- Kodama, Setsuji, Los Angeles, Cal. Vehicle traffic-signal. No. 1,291,553; Jan. 14; v. 258; p. 389.
- Koehlin, Albert G., Basel, Switzerland. Weft-spool changer for weaving-ooms. No. 1,321,315; Nov. 11; v. 268; p. 245.
- Koehlin, Emile R., Amsterdam, Netherlands, assignor to Naamloze Vennootschap Weduwe J. Ahrend & Zoon's Industrie en Handels-Vereniging. Drawing-table. No. 1,303,683; May 13; v. 262; p. 253.
- Koehler, Albert W., Dayton, Ohio. Illuminating device. No. 1,317,023; Sept. 23; v. 266; p. 542.
- Koehler, Charles. (See McIntyre and Koehler.)
- Koehler, Charles H., Springfield, Ill. Efficiency-indicator for electric-car operation. No. 1,309,204; July 8; v. 264; p. 249.
- Koehler, Charles J., assignor to Automatic Electric Sterilizer Company, Hamilton, Ohio. Electric sterilizer. No. 1,314,671; Sept. 2; v. 266; p. 38.
- Koehler, Christopher C., Cincinnati, Ohio. Valve-facing device. No. 1,317,195; Sept. 30; v. 266; p. 611.
- Koehler, Edward, assignor to The Acme Shear Company, Bridgeport, Conn. Scissors and shears. No. 1,293,122; Feb. 4; v. 259; p. 35.
- Koehler, Edward, assignor to The Acme Shear Company, Bridgeport, Conn. Shears. No. 1,324,598; Dec. 9; v. 269; p. 395.



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- Koehler, Frank G., St. Louis, Mo. Automatic coupling. No. 1,302,931; May 6; v. 262; p. 86.
- Koehler, Frederick W., Wilkinsburg, assignor to American Atmos Corporation, Wilkinsburg station, Pittsburgh, Pa. Regenerator for breathing apparatus. No. 1,309,896; July 15; v. 264; p. 414.
- Koehler, Henry L., Louisville, Ky. Inking device for printing-presses. No. 1,293,805; Feb. 11; v. 259; p. 224.
- Koehler, Nicholas J., Baltimore, Md. Hand stamping device. No. 1,291,026; Jan. 14; v. 258; p. 267.
- Koehler, William H., Jackson, Mich. Traffic-signal for motor-vehicles. No. 1,291,928; Jan. 21; v. 258; p. 513.
- Koehring Machine Company. (See Lichtenberg, Erich H., assignor.)
- Koelker, Oscar H., assignor to The Willys-Overland Company, Toledo, Ohio. Pump. No. 1,324,905; Dec. 16; v. 269; p. 424.
- Koelling, Julius F., Chicago, Ill. Litter-carrier. No. 1,318,890; Oct. 14; v. 267; p. 200.
- Koenig, Alphonso L., Chicago, Ill., assignor to The Koenig Carbonators. Carbonator. No. 1,291,554; Jan. 14; v. 258; p. 389.
- Koenig, Augustus, Philadelphia, Pa. Locking device for the operating-lever of automobiles. No. 1,325,872; Dec. 23; v. 269; p. 621.
- Koenig Carbonators, The. (See Koenig, Alphonso L., assignor.)
- Koenig, Harry M., Milwaukee, Wis. Vessel. No. 1,319,591; Oct. 21; v. 267; p. 455.
- Koenig, Harry M., Milwaukee, Wis. Vessel. No. 1,319,592; Oct. 21; v. 267; p. 455.
- Koenig, Henry L. (See Paton and Koenig.)
- Koenig, Joseph, Two Rivers, Wis. Heat-economizer. No. 1,292,615; Jan. 28; v. 258; p. 701.
- Koenig, Joseph, Two Rivers, Wis. Heating apparatus. No. 1,300,416; Apr. 15; v. 261; p. 457.
- Koenig, Joseph, Two Rivers, Wis. Flask for liquids. (Reissue.) No. 14,641; Apr. 29; v. 261; p. 938.
- Koenig, Malcolm D., and J. H. Weichel, Lancaster, Pa., assignors to E. C. Feigenspan, Newark, N. J. Pan cleaning and greasing machine. No. 1,295,762; Feb. 25; v. 259; p. 736.
- Koenig, Robert, Camden, N. J. Machine for shaping tubular glass articles. No. 1,304,691; May 27; v. 262; p. 519.
- Koenig, Walter J. (See Zimmers, Jessop, Koenig, and Garner.)
- Koenig, William J., Brooklyn, N. Y. Contact-plug. No. 1,320,242; Oct. 28; v. 267; p. 600.
- Koenigkramer, Frank, Cincinnati, Ohio. Treating-table. No. 1,314,597; Sept. 2; v. 266; p. 23.
- Koenigkramer, Frank, Cincinnati, Ohio. Treating-table. No. 1,319,227; Oct. 21; v. 267; p. 386.
- Koepke, William E., Sisseton, S. D. Shock-fork. No. 1,314,815; Sept. 2; v. 266; p. 64.
- Koepke, William E., Sisseton, S. D. Shock-loader. No. 1,319,876; Oct. 28; v. 267; p. 532.
- Koepke, William E., Sisseton, S. D. Steering-balance. No. 1,320,557; Nov. 4; v. 268; p. 38.
- Koeppe, H. J., et al. (See Lieske, Frank J., assignor.)
- Koeppe, Paul H., Pittsburgh, Pa. Curtain-stretcher. No. 1,311,653; July 29; v. 264; p. 802.
- Koerner, Fred. (See Ray and Koerner.)
- Koerner, Louis T., Evansville, Ind. Chair. No. 1,326,275; Dec. 30; v. 269; p. 733.
- Koester, Frank, New York, N. Y. Shoe and stiffener-strip for the uppers thereof. No. 1,296,529; Mar. 4; v. 260; p. 159.
- Koester, Frank, New York, N. Y. Shoe and stiffener-strip for the same. No. 1,296,530; Mar. 4; v. 260; p. 159.
- Koester, Max C., et al. (See Johnson, Pierce X., assignor.)
- Koetschau, Rudolf, Waldheim, near Hanover, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Converting mineral oil of high boiling-points into products having lower boiling-points. No. 1,325,299; Dec. 16; p. 498.
- Koetschet, Joseph, and M. Beudet, Lyon, assignors to Societe Chimique Des Usines Du Rhone, (Anciennement Gillard, P. Monnet et Cartier,) Paris, France. Production of acetic anhydrid and acetaldehyde. No. 1,298,556; Mar. 25; v. 260; p. 647.
- Koetschet, Joseph, and M. Beudet, Lyon, assignor to Societe Chimique Des Usines Du Rhone, Anciennement Gillard, P. Monnet et Cartier, Paris, France. Manufacture of ethylidene diacetate. No. 1,304,989; May 27; v. 262; p. 574.
- Koetschet, Joseph, and M. Beudet, Lyon, assignors to Societe Chimique Des Usines Du Rhone, anciennement Gillard, P. Monnet et Cartier, Paris, France. Production of acetic anhydrid and polymerized or non-polymerized acetic aldehyde or acetic acid. No. 1,306,963; June 17; v. 263; p. 388.
- Koetschet, Joseph, and M. Beudet, Lyon, assignors to Societe Chimique Des Usines Du Rhone, anciennement Gillard, P. Monnet et Cartier, Paris, France. Manufacture of ethylidene diacetate. No. 1,306,964; June 17; v. 263; p. 388.
- Koger, John J., Morristown, Tenn. Automobile power-transmitting apparatus. No. 1,309,481; July 8; v. 264; p. 300.
- Kohirogawa, Haruichi, Portland, Oreg. Necktie-form. No. 1,322,581; Nov. 25; v. 268; p. 585.
- Kohl, Charles, Sheboygan, Wis. Brooder. No. 1,303,804; May 13; v. 262; p. 275.
- Kohler, Charles W., and E. H. Martin, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Gas-mask. No. 1,315,515; Sept. 9; v. 266; p. 200.
- Kohler Co. (See Kohler, Walter J., assignor.)
- Kohler Co. (See Kohler and Brotz, assignors.)
- Kohler, Conrad, Zurich, Switzerland. Welding two metals of unequal fusibility. No. 1,296,815; Mar. 11; v. 260; p. 261.
- Kohler, Conrad, Zurich, Switzerland. Device for recooling the cooling-water of steam-condensing plants on vehicles. No. 1,322,908; Nov. 25; v. 268; p. 646.
- Kohler Die & Specialty Company. (See Hall, William H., assignor.)
- Köhler, Georg, deceased, Cassel, Germany; M. Köhler, née Bauch, widow and guardian. Rail-joint. No. 1,324,906; Dec. 16; v. 269; p. 424.
- Kohler, Henry L., St. Louis, Mo. Purifying fire-clays. No. 1,290,241; Jan. 7; v. 258; p. 55.
- Kohler, Henry L., St. Louis, Mo. Clay-binder and making same. No. 1,312,853; Aug. 12; v. 265; p. 221.
- Köhler, John R., Stockholm, Sweden. Producing purified resin from natural resin of conifers and the like. No. 1,316,842; Sept. 23; v. 266; p. 508.
- Köhler, Mathilde, née Bauch, widow and guardian. (See Köhler, Georg.)
- Kohler, Nathan, assignor of one-half to N. F. Bader, New York, N. Y. Safety device for elevators. No. 1,310,993; July 22; v. 264; p. 646.
- Kohler, Walter J., Sheboygan, assignor to Kohler Co., Kohler, Wis. Marking enameled ware. No. 1,290,580; Jan. 7; v. 258; p. 136.
- Kohler, Walter J., Sheboygan, assignor to Kohler Co., Kohler, Wis. Shower-bath stall. No. 1,317,795; Oct. 7; v. 267; p. 25.
- Kohler, Walter J., Sheboygan, and A. Brotz, assignors to Kohler Co., Kohler, Wis. Metal molding. No. 1,325,725; Dec. 23; v. 269; p. 594.
- Kohlhaas, Otto H., Calumet, Mich. Check-row device for corn-planters. No. 1,306,821; June 17; v. 263; p. 362.
- Kohlhepp, John W., Los Angeles, Calif., assignor to The Allbright-Nell Company, Chicago, Ill. Hog scraping and cleaning machine. No. 1,323,635; Dec. 2; v. 269; p. 77.
- Kohlhepp, John W., assignor to The Allbright-Nell Company, Chicago, Ill. Carcass-cleaning machine. No. 1,323,636; Dec. 2; v. 269; p. 77.
- Kohlhepp, John W., assignor to The Allbright-Nell Company, Chicago, Ill. Multiple-drum carcass-dehairing machine. No. 1,323,637; Dec. 2; v. 269; p. 77.
- Kohlhepp, John W., assignor to The Allbright-Nell Company, Chicago, Ill. Side-discharge carcass-cleaning machine. No. 1,323,638; Dec. 2; v. 269; p. 77.
- Kohlhepp, John W., assignor to The Allbright-Nell Co., Chicago, Ill. Flexible carcass-scraping drum. No. 1,323,639; Dec. 2; v. 269; p. 78.
- Kohlmyer, Henry, Lorain, Ohio. Bolt-locking device. No. 1,304,575; May 27; v. 262; p. 497.
- Kohls, Henry A. (See Melchert and Kohls.)
- Kohman, Henry A., T. M. Godfrey, and L. H. Ashe, Pittsburgh, Pa., assignors to Ward Baking Company, New York, N. Y. Communiting hard fats. No. 1,323,367; Dec. 2; v. 269; p. 28.
- Kohman, Henry A., T. M. Godfrey and L. H. Ashe, Pittsburgh, Pa., assignors to Ward Baking Company, New York, N. Y. Communiting edible fat for shortening purposes and making the same. No. 1,326,276; Dec. 30; v. 269; p. 733.
- Kohman, Henry A., R. Irvin, and R. J. Cross, Pittsburgh, Pa., assignors to The Ward Baking Company, New York, N. Y. Manufacture of leavened bread. No. 1,325,327; Dec. 16; v. 269; p. 503.
- Kohn, Ernest F. (See Tribe and Kohn.)
- Kohn, Jacob, New York, N. Y. Lock. No. 1,299,195; Apr. 1; v. 261; p. 132.
- Kohn, Jacob, New York, N. Y. Lock. No. 1,302,565; May 6; v. 262; p. 16.
- Kohn, Julius, New York, N. Y. Toy boat. No. 1,300,177; Apr. 8; v. 261; p. 380.
- Kohn, Leo M. (See MacFarland, Allison M., assignor.)
- Kohn, Milton M., assignor to The Ventilator Fan Co., Inc., New York, N. Y. Universal holding-bracket for power units. No. 1,307,011; June 17; v. 263; p. 297.
- Kohn, Milton M., Manhattan borough, assignor to The Ventilator Fan Co., Inc., New York, N. Y. Impeller. No. 1,321,378; Nov. 11; v. 268; p. 257.
- Kohn, Milton M., assignor to The Ventilator Fan Co., New York, N. Y. Ventilator-fan. No. 1,322,582; Nov. 25; v. 268; p. 585.
- Kohn, Monroe, Chicago, Ill. Cuff-link. No. 1,291,555; Jan. 14; v. 258; p. 390.
- Kohn, Samuel, Chicago, Ill. Film-reel. No. 1,307,554; June 24; v. 263; p. 529.
- Kohn, Sidney M., et al. (See Thompson, William H., assignor.)
- Kohn, William, Brooklyn, N. Y. Sound-record holder. No. 1,295,763; Feb. 25; v. 259; p. 736.
- Kohout, George A., assignor to Shear-Klean Grate Company, Chicago, Ill. Furnace-grate. No. 1,310,162; July 15; v. 264; p. 462.



- Kohr, A. Allison. (See Sperr and Kohr.)  
 Koile, Ross, Brandon, Iowa. Traction-wheel-driving means. No. 1,292,954; Jan. 28; v. 258; p. 780.  
 Koken Barbers' Supply Company. (See Koken and Anderson, assignors.)  
 Koken, Walter F., and G. G. Anderson, assignors to Koken Barbers' Supply Company, St. Louis, Mo. Barber-chair. No. 1,302,672; May 6; v. 262; p. 36.  
 Ko Ko Mat Co. (See Van Derbeck, Stephen G., assignor.)  
 Kokomo Electric Co. (See Wiley, Porter A., assignor.)  
 Kolarik, Frank F., Nunn, Colo. Mechanical toy. No. 1,305,224; May 27; v. 262; p. 619.  
 Kolb, George F. (See Pedrick and Kolb.)  
 Kolbenstetter, Charles M., Detroit, Mich. Securing means for separable members. No. 1,303,906; July 8; v. 264; p. 193.  
 Kolber, Benjamin, Chicago, Ill. Garment-hanger. No. 1,301,709; Apr. 22; v. 261; p. 758.  
 Kolby, James A., L. P. Larson, and C. P. Nielsen, Ephraim, assignors to Kolby Wheel Company, Salt Lake City, Utah. Resilient wheel. No. 1,302,177; Apr. 29; v. 261; p. 877.  
 Kolby Wheel Company. (See Kolby, Larson, and Nielsen, assignors.)  
 Kolczynski, John F. (See Karl, Kolczynski, and Woodin.)  
 Kolczynski, John F. (See Woodin, Kolczynski, and Karl.)  
 Kolesar, John, Woodland, Me. Automobile-turning device. No. 1,303,805; May 13; v. 262; p. 275.  
 Koleta, William F., East Akron, Ohio. Mail-box. No. 1,299,737; Apr. 8; v. 261; p. 283.  
 Kolhede, Karl H. (See Stee and Kolhede.)  
 Kollar, John, Chicago, Ill. Noodle-cutter. No. 1,321,215; Nov. 11; v. 268; p. 225.  
 Kollberg, Frederick B. (See Kraut and Kollberg.)  
 Kollberg, Frederick B., Bisbee, Ariz., and M. Kraut, Los Angeles, Calif., assignors to Southwestern Engineering Company, Apparatus for aerating liquid. No. 1,319,667; Oct. 21; v. 267; p. 469.  
 Kollmar, Henry, assignor to Kollmar, Rauch & Company, Irvington, N. J. Cigar-cutter. No. 1,294,479; Feb. 18; v. 259; p. 418.  
 Kollmar, Rauch & Company. (See Kollmar, Henry, assignor.)  
 Kollmorgen, Frederick L. G., Mountain Lakes, N. J. Periscope. No. 1,309,639; July 15; v. 264; p. 367.  
 Kollock, George L., and R. P. Martin, assignors to Universal Hammer Company, Seattle, Wash. Automatic hammer. No. 1,310,574; July 22; v. 264; p. 569.  
 Kollock, George L., and R. P. Martin, assignors to Universal Hammer Company, Seattle, Wash. Automatic hammer. No. 1,310,575; July 22; v. 264; p. 569.  
 Kolloster, Herman H., Palatka, Fla. Zone-indicator. No. 1,301,273; Apr. 22; v. 261; p. 674.  
 Kolsky, George, New York, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Treating wool-scouring liquors and the like. No. 1,325,873; Dec. 23; v. 269; p. 622.  
 Kolster, Frederick A., Washington, D. C. Radio method and apparatus. No. 1,311,654; July 29; v. 264; p. 802.  
 Kolts, William J., Kingston, N. Y. Non-refillable container. No. 1,308,362; July 1; v. 264; p. 65.  
 Koltz, Nicholas, assignor to P. H. Weaver, Fond du Lac, Wis. Valved piston. No. 1,306,382; June 10; v. 263; p. 249.  
 Koman, Maurice B., Washington, D. C. Rim for pneumatic tires. No. 1,291,930; Jan. 21; v. 258; p. 514.  
 Komarek, Gustav, Chicago, Ill., assignor to St. Louis Briquette Machine Company, St. Louis, Mo. Feeder for briquet-machines. No. 1,292,483; Jan. 28; v. 258; p. 668.  
 Komarek, Gustav, Chicago, Ill., assignor to St. Louis Briquette Machine Company, St. Louis, Mo. Material-feeder for briquet-machines. No. 1,293,475; Feb. 4; v. 259; p. 116.  
 Komarek, Gustav, Chicago, Ill., assignor to St. Louis Briquette Machine Company, St. Louis, Mo. Briquet-machine. No. 1,295,764; Feb. 25; v. 259; p. 737.  
 Komorous, Joseph, assignor to Parisian Novelty Company, Chicago, Ill. Bank. No. 1,294,810; Feb. 18; v. 259; p. 494.  
 Komorous, Joseph, Riverside, Ill., assignor to Parisian Novelty Company, Chicago, Ill. Tape-measure. No. 1,320,767; Nov. 4; v. 268; p. 76.  
 Konagai, Kotaro, Tokyo, Japan. Waterproof paper. No. 1,307,405; June 24; v. 263; p. 502.  
 Konerman, Harry H., Newport, Ky., and R. C. Leimberger, assignors to The Globe Register Company, Cincinnati, Ohio. Paper-feed for autographic registers. No. 1,316,581; Sept. 23; v. 266; p. 460.  
 Konerman, Harry H., Newport, and F. E. Werges, Ludlow, Ky., assignors to The Globe Register Company, Cincinnati, Ohio. Autographic register. No. 1,326,406; Dec. 30; v. 269; p. 757.  
 Konetsky, John R., San Francisco, Cal. Final drive for motor-trucks. No. 1,293,123; Feb. 4; v. 259; p. 35.  
 Kong, Albert C., and W. C. Kam, Honolulu, Hawaii. Quick-service attachment-plug. No. 1,304,491; May 20; v. 262; p. 443.  
 Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Guide for pipe-cutters. No. 1,312,187; Aug. 5; v. 265; p. 63.  
 Konigsberg, Lena. (See Konigsberg, Joseph, assignor.)  
 Konigslow, Max E. (See Gould and Konigslow.)  
 Konigslow, Otto, assignor to The Otto Konigslow Manufacturing Company, Cleveland, Ohio. Connecting-rod. No. 1,291,929; Jan. 21; v. 258; p. 514.  
 Konigslow, Otto, assignor to The Otto Konigslow Manufacturing Company, Cleveland, Ohio. Hinge. No. 1,309,579; July 8; v. 264; p. 319.  
 Konigslow, Otto, assignor to The Otto Konigslow Manufacturing Company, Cleveland, Ohio. Hinge. No. 1,317,196; Sept. 30; v. 266; p. 611.  
 Konikoff, Harry R., New York, N. Y. Adjustable dress-form. No. 1,313,303; Aug. 19; v. 265; p. 325.  
 Konkle, George A., Montoursville, Pa. Milk-strainer. No. 1,307,677; June 24; v. 263; p. 551.  
 Kools, Benjamin E., and H. A. Stevens, Kalamazoo, Mich. Locking device for internal-combustion engines. No. 1,294,480; Feb. 18; v. 259; p. 418.  
 Koontz, Herbert, South Bend, Ind. Whirligig-pistol. No. 1,294,917; Feb. 18; v. 259; p. 519.  
 Koontz, Pierce W., Los Angeles, Calif. Child's vehicle. No. 1,306,916; June 17; v. 263; p. 380.  
 Koontz, Victor R., Waynesboro, Pa. Vise. No. 1,310,351; July 15; v. 264; p. 496.  
 Koors, August W., Duluth, Minn. Packing-crate. No. 1,310,352; July 15; v. 264; p. 496.  
 Kopacki, Albert G., assignor of one-half to S. Budzinski, Bay City, Mich. Bedstead. No. 1,301,274; Apr. 22; v. 261; p. 675.  
 Kopesay, Joseph, South Bend, Ind. Propeller. No. 1,300,738; Apr. 15; v. 261; p. 525.  
 Kopec, Julius, Frankfort Heights, Ill. Envelop and making and sealing the same. No. 1,294,481; Feb. 18; v. 259; p. 418.  
 Kopel, Frank, Exline, Iowa. Trap. No. 1,307,678; June 24; v. 263; p. 551.  
 Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack. No. 1,317,878; Oct. 7; v. 267; p. 41.  
 Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Mechanical movement. No. 1,318,770; Oct. 14; v. 267; p. 272.  
 Kopf, John C., assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,321,456; Nov. 11; v. 268; p. 271.  
 Kopf, Melrose G. (See Lauterbach, Rappel, and Kopf.)  
 Kopf, Melrose G., assignor to The Ralko Products Company, Dayton, Ohio. Fire-extinguisher. No. 1,302,673; May 6; v. 262; p. 36.  
 Kopf, Melrose G., assignor to The Ralko Products Company, Dayton, Ohio. Portable fire-extinguisher. No. 1,317,507; Sept. 30; v. 266; p. 670.  
 Kopp, Nicholas, Pittsburgh, Pa. Shade structure. No. 1,325,642; Dec. 23; v. 269; p. 578.  
 Kopp, William, Richmond Hill, N. Y. Combination knock-down structure. No. 1,314,271; Aug. 26; v. 265; p. 542.  
 Koppers Company, The. (See Basore, Cleburne A., as Koppers Company, The. (See Becker, Joseph, assignor.)  
 Koppers Company, The. (See Darrin, Marc, assignor.)  
 Koppers Company, The. (See Davis and Semenov, assignors.)  
 Koppers Company, The. (See Dieterle and Semenov, assignors.)  
 Koppers Company, The. (See Koppers, Heinrich, assignor.)  
 Koppers Company, The. (See Sperr and Darrin, assignors.)  
 Koppers Company, The. (See Sperr and Kohr, assignors.)  
 Koppers Company, The. (See Van Ackeren, Joseph, assignor.)  
 Koppers, Heinrich, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to The Koppers Company. Apparatus for separating light oils from washing-oil and regenerating the latter. No. 1,323,396; Dec. 2; v. 269; p. 33.  
 Koppitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Overland air-break switch. No. 1,316,901; Sept. 23; v. 266; p. 519.  
 Koppitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Air-break switch. No. 1,320,870; Nov. 4; v. 268; p. 96.  
 Kopplin, Otto E., Marion, Tex. Plow. No. 1,301,063; Apr. 15; v. 261; p. 596.  
 Kops Brothers. (See Kops, Waldemar, assignor.)  
 Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,307,132; June 17; v. 263; p. 419.  
 Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,317,508; Sept. 30; v. 266; p. 670.  
 Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,318,156; Oct. 7; v. 267; p. 94.  
 Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,318,884; Oct. 14; v. 267; p. 295.  
 Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,321,059; Nov. 4; v. 268; p. 132.  
 Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Brassiere. No. 1,294,116; Feb. 11; v. 259; p. 297.  
 Kops, Waldemar, assignor to Kops Brothers, New York, N. Y. Manufacturing corset-stay units. No. 1,319,476; Oct. 21; v. 267; p. 433.



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- Kopsch, Hermann, J. G., Boston, Mass. Commutator. No. 1,296,969; Mar. 11; v. 260; p. 297.
- Kopstein, Ernst C. (See Frank and Kopstein.)
- Korach, Louis L. (See Wohlgenuth, Jacob J., assignor.)
- Korb, Fred J., Chicago, Ill. Invisible hinge. No. 1,302,178; Apr. 29; v. 261; p. 878.
- Korbel, Edward J. (See Zarlinga and Korbel.)
- Koren, Harald, and D. A. Clark, assignors to The Diamond Stamping Works Company, Cleveland, Ohio. Box. No. 1,318,771; Oct. 14; v. 267; p. 273.
- Koren, Harald, and D. A. Clark, assignors to The Diamond Stamping Works Company, Cleveland, Ohio. Box. No. 1,318,772; Oct. 14; v. 267; p. 273.
- Koressios, Theodore N. C., London, England. Throttle-controlling apparatus for internal-combustion engines. No. 1,316,727; Sept. 23; v. 266; p. 488.
- Koretzky, Harry. (See Fertman and Koretzky.)
- Koretzky, Harry M., New York, assignor to J. Satlow, Brooklyn, N. Y. Flash-light. No. 1,296,404; Mar. 4; v. 260; p. 133.
- Korfst, Adam J., assignor to A. Stein & Company, Chicago, Ill. Package for inclosing and displaying articles. No. 1,315,516; Sept. 9; v. 266; p. 200.
- Korgan, Albert, Lewis township, Pottawattamie county, Iowa. Autowagon. No. 1,322,192; Nov. 18; v. 268; p. 459.
- Korket Company, The. (See Bubh, Clarence A., assignor.)
- Korkus, Maciej, Providence, R. I. Receptacle-lock. No. 1,312,854; Aug. 12; v. 265; p. 221.
- Kormutt, Ignac, Charleroi, Pa. Melting and pouring furnace. No. 1,290,242; Jan. 7; v. 258; p. 55.
- Korn, Ralph H., New York, N. Y. Carriage for artillery. No. 1,308,286; July 1; v. 264; p. 51.
- Kornas, Joseph, Linden, N. J., assignor to Feldman Machine Works, Inc. Cutting-machine. No. 1,291,931; Jan. 21; v. 258; p. 514.
- Kornas, Joseph, Linden, N. J., assignor to Feldman Machine Works, Inc. Sewing-machine. No. 1,293,806; Feb. 11; v. 259; p. 224.
- Kornetsky, Israel, Chelsea, and D. P. Sullivan, Boston, Mass. Valve for pneumatic tires. No. 1,290,243; Jan. 7; v. 258; p. 55.
- Kornis, Zakaris, Decatur, Ala. Fishing apparatus. No. 1,324,829; Dec. 16; v. 269; p. 410.
- Kornmann, Henry. (See Schmidt, Naegelen, and Kornmann.)
- Korns, Clarence C., Johnstown, Pa. Switch-throw. No. 1,313,995; Aug. 26; v. 265; p. 489.
- Korns, Clarence C., Johnstown, Pa. Conduit-support. No. 1,319,652; Oct. 21; v. 267; p. 467.
- Kors, Charles H., Poughkeepsie, N. Y. Normally closed receptacle. No. 1,295,765; Feb. 25; v. 259; p. 737.
- Kors, Charles H., Philadelphia, Pa. Binder. No. 1,314,338; Aug. 26; v. 265; p. 554.
- Kors, Charles H., Philadelphia, Pa. Box. (Reissue.) No. 14,732; Oct. 7; v. 267; p. 131.
- Korselt, Johannes, Zittau, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated. Treatment of silk with reserves for the purpose of increasing its strength and elasticity. No. 1,318,339; Oct. 7; v. 267; p. 130.
- Korte, Christian, assignor of two-thirds to Campbells and Hunter, Limited, Leeds, England. Briquetting-press. No. 1,293,124; Feb. 4; v. 259; p. 35.
- Korth, Paul V., Detroit, Mich. Game apparatus. No. 1,310,483; July 22; v. 264; p. 552.
- Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Induction-motor control. No. 1,301,710; Apr. 22; v. 261; p. 758.
- Korzagadarian, Leon, Newport, R. I. Hoist. No. 1,326,670; Dec. 30; v. 269; p. 807.
- Koscherak Siphon Bottle Works. (See Langan, William B., assignor.)
- Kosht, Stephen J., and J. A. Petrilla, Pittsburgh, Pa. Anti-skid tire device. No. 1,297,869; Mar. 18; v. 260; p. 518.
- Kosich, Demster K., Milwaukee, Wis. Fruit-picker. No. 1,308,677; July 1; v. 264; p. 122.
- Kosich, Mark, Washington, D. C. Permutation-lock. No. 1,310,704; July 22; v. 264; p. 593.
- Kosinski, Tomasz M., Chicago, Ill. Tie-holder. No. 1,311,900; Aug. 5; v. 265; p. 10.
- Kositchek, Leo S., assignor to Columbia Fastener Company, Chicago, Ill. Snap-fastener. No. 1,292,804; Jan. 23; v. 258; p. 745.
- Kositchek, Leo S., Chicago, Ill., assignor to Columbia Fastener Company. Mucilage-jar. No. 1,309,948; July 15; v. 264; p. 425.
- Koskie, Louis, Brooklyn, N. Y. Cravat. No. 1,306,432; June 10; v. 263; p. 258.
- Koskinen, Kustaa R., Duluth, Minn. Freight-car door. No. 1,308,955; July 8; v. 264; p. 202.
- Koss, Alva D., Cerro Gordo, Ill. Coin-container for mail-boxes. No. 1,315,133; Sept. 2; v. 266; p. 120.
- Kossmann, Max, Brooklyn, N. Y. Lamp-supporting device. No. 1,305,122; May 27; v. 262; p. 599.
- Kossmann, Max, Brooklyn, N. Y. Lamp-supporting device. No. 1,326,671; Dec. 30; v. 269; p. 807.
- Kosta, George, Philadelphia, Pa. Silver-cleaning compound. No. 1,315,630; Sept. 9; v. 266; p. 220.
- Kostedt, Oscar G. (See Weinhold, Paul, assignor.)
- Koster, Carl L. (See Hunter, William F., assignor.)
- Kotanchik, Paul, Ranshaw, Pa. Adjustable spike and nail puller. No. 1,297,870; Mar. 18; v. 260; p. 519.
- Kothe, Richard. (See Heymann, Dressel, Kothe, and Ossennebeck.)
- Kottke, Edward R., assignor of one-third to H. T. Kurrasch, St. Paul, Minn. Gage-cock. No. 1,322,797; Nov. 25; v. 268; p. 625.
- Kottler, John A., Milwaukee, Wis. Mat. No. 1,316,902; Sept. 23; v. 266; p. 519.
- Kottman, Josephine C., Brooklyn, N. Y. Skirt-marker. No. 1,294,117; Feb. 11; v. 259; p. 298.
- Kottusch, Emil, Detroit, Mich. Piston-ring. No. 1,323,192; Nov. 25; v. 268; p. 700.
- Koupet Auto Top Company. (See Heinzelman, Reginald, assignor.)
- Kovacs, Benjamin. (See Laszlo and Kovacs.)
- Kovacs, Louis, Chicago, Ill. Combination-switch. No. 1,310,354; July 15; v. 264; p. 497.
- Kovacs, Louis, assignor of one-third to C. Jasper, Chicago, Ill. Magnetic starting-switch. No. 1,310,353; July 15; v. 264; p. 496.
- Koval, Martin M., Heilwood, Pa. Shade-bracket. No. 1,306,114; June 10; v. 263; p. 196.
- Kovall, John, Bayonne, N. J. Bomb. No. 1,295,176; Feb. 25; v. 259; p. 601.
- Kovar, Joseph J., Owatonna, Minn. Spring-toothed harrow. No. 1,298,735; Apr. 1; v. 261; p. 27.
- Kover, Morris, and J. Holtzman, New York, N. Y. Razor-blade-stropping machine. No. 1,325,494; Dec. 16; v. 269; p. 533.
- Kowalski, Edward F., Detroit, Mich. Binding-spreader. No. 1,324,197; Dec. 9; v. 269; p. 228.
- Kowalski, Joseph, Detroit, Mich. Grinder. No. 1,304,067; May 20; v. 262; p. 361.
- Kowalski, Wojciech, Bay City, Mich. Garbage-can. No. 1,320,067; Oct. 28; v. 267; p. 568.
- Kozar, Ladislav O., Middletown, Pa. Synchronizing apparatus. No. 1,314,081; Aug. 26; v. 265; p. 505.
- Kozbial, Peter, Latrobe, Pa. Wire-cutter. No. 1,290,581; Jan. 7; v. 258; p. 137.
- Koziatek, Joseph, New Kensington, Pa. Toy. No. 1,313,994; Aug. 26; v. 265; p. 489.
- Koziol, Joseph, Des Moines, Iowa. Life-boat. No. 1,296,668; Mar. 11; v. 260; p. 227.
- Koziol, Wladyslaw, Forestville, Conn. Toilet. No. 1,311,405; July 29; v. 264; p. 756.
- Kozlowski, Felix A., Beaver township, Bay county, Mich. Automatic bayonet. No. 1,314,672; Sept. 2; v. 266; p. 38.
- Kozlowski, Joe, Toledo, Ohio. Combined cane and fishing-rod. No. 1,324,554; Dec. 9; v. 269; p. 297.
- Kozlowski, Martin, Masontown, Pa. Toy. No. 1,302,379; Apr. 29; v. 261; p. 916.
- Krabach, Frank N., Fort Wayne, Ind. Cabinet. No. 1,294,118; Feb. 11; v. 259; p. 298.
- Krabel, Olaus O., Chicago, Ill. Swiveled and tilting chair. No. 1,297,364; Mar. 18; v. 260; p. 411.
- Kraehmer, Oscar C., Galena, Ill. Holder for use in repairing eyeglasses. No. 1,301,275; Apr. 22; v. 261; p. 675.
- Kraemer, F. L. (See Carter, George T., assignor.)
- Kraft, Frederick W., Berkeley, Calif. Wall-paper-pasting machine. No. 1,310,355; July 15; v. 264; p. 497.
- Kraft, Walter A. (See Steiner and Kraft.)
- Kraft, Conrad J., assignor of one-half to O. P. Bailor, Memphis, Tenn. Safety-catch for brooches. No. 1,296,405; Mar. 4; v. 260; p. 133.
- Kraft, Henry P. (See Schweinert and Kraft.)
- Kraft, Henry P., Ridgewood, N. J. Tire-valve. No. 1,290,582; Jan. 7; v. 258; p. 137.
- Kraft, Henry P., Ridgewood, N. J. Pneumatic tube or chute. No. 1,290,758; Jan. 7; v. 258; p. 180.
- Kraft, Henry P., Ridgewood, N. J. Dust-cap for tire-valves or the like. No. 1,295,760; Feb. 25; v. 259; p. 737.
- Kraft, Henry P., Ridgewood, N. J. Dust-cap. No. 1,295,767; Feb. 25; v. 259; p. 737.
- Kraft, Henry P., Ridgewood, N. J. Deflating-machine. No. 1,297,186; Mar. 11; v. 260; p. 344.
- Kraft, Henry P., Ridgewood, N. J. Stopper for water-bottles or the like. No. 1,301,711; Apr. 22; v. 261; p. 758.
- Kraft, Henry P., Ridgewood, N. J. Tire or other valve. No. 1,302,380; Apr. 29; v. 261; p. 916.
- Kraft, Henry P., Ridgewood, N. J. Rim-nut or the like. No. 1,302,381; Apr. 29; v. 261; p. 917.
- Kraft, Henry P., Ridgewood, N. J. Inflating-coupling. No. 1,304,576; May 27; v. 262; p. 497.
- Kraft, Henry P., Ridgewood, N. J. Tire-valve. No. 1,305,552; June 3; v. 263; p. 61.
- Kraft, Henry P., Ridgewood, N. J. Tire-valve. No. 1,307,980; June 24; v. 263; p. 607.
- Kraft, Henry P., Ridgewood, N. J. Dust-cap. No. 1,315,778; Sept. 9; v. 266; p. 246.
- Kraft, Henry P., Ridgewood, N. J. Dust-cap for tire-valves or the like. No. 1,319,155; Oct. 21; v. 267; p. 573.
- Kraft, Henry P., Ridgewood, N. J. Tire-valve. No. 1,325,583; Nov. 25; v. 268; p. 585.
- Kraft, Henry P., Ridgewood, N. J. Ferrule-machine. No. 1,322,584; Nov. 25; v. 268; p. 586.



- Kraft, Henry P., Brooklyn, N. Y., and M. C. Schweinert, West Hoboken, N. J. Cap for fountain-syringes or the like. No. 1,318,885; Oct. 14; v. 267; p. 295.
- Kraft, James L., Chicago, Ill. Treating cheese. No. 1,323,869; Dec. 2; v. 269; p. 121.
- Kraft, James L., Chicago, Ill., assignor to J. L. Kraft & Bros. Co. Sterilizing cheese and an improved product produced by such process. (Reissue.) No. 14,777; Dec. 23; v. 269; p. 674.
- Kraft, Julius, Philadelphia, Pa. Cushioned cap. No. 1,315,313; Sept. 9; v. 266; p. 163.
- Kraive, William, assignor to Capitol Motors Corporation, Fall River, Mass. Radiator-support. No. 1,305,810; June 3; v. 263; p. 109.
- Kraive, William, assignor to Capitol Motors Corporation, Fall River, Mass. Chassis construction. No. 1,306,822; June 17; v. 263; p. 362.
- Kraive, William, assignor to Capitol Motors Corporation, Fall River, Mass. Automobile-spring. No. 1,310,193; July 15; v. 264; p. 468.
- Kraive, William, assignor to Capitol Motors Corporation, Fall River, Mass. Engine-mounting. No. 1,314,673; Sept. 2; v. 266; p. 38.
- Krag, Erik L., Chicago, Ill. Loose-leaf binder. No. 1,320,479; Nov. 4; v. 268; p. 23.
- Kragtorp, Anton. (See Greenough, Davis, and Kragtorp.)
- Krahmer, George W., Cyllinder, Iowa. Chute for livestock. No. 1,297,696; Mar. 18; v. 260; p. 482.
- Krakau, Harry T., Cleveland, Ohio. Engine connection. No. 1,304,577; May 27; v. 262; p. 498.
- Krakauer, Phillip, New York, N. Y. Spring-pad. No. 1,325,874; Dec. 23; v. 269; p. 622.
- Krakowiecki, John, Kalispell, Mont. Vehicle-frame. No. 1,319,653; Oct. 21; v. 267; p. 467.
- Krall, John H., Portland, Oreg. Vehicle-tire. No. 1,293,473; Feb. 4; v. 259; p. 116.
- Kralund, John, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Die-casting apparatus. No. 1,299,738; Apr. 8; v. 261; p. 283.
- Kralund, John, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Gate-former for casting apparatus. No. 1,321,457; Nov. 11; v. 268; p. 272.
- Kralund, John, New York, N. Y., and M. Stern, Toledo, Ohio, assignors to Doehler Die-Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,292,484; Jan. 28; v. 258; p. 668.
- Kralund, John, and C. Duckworth, Brooklyn, N. Y., and M. Stern, Toledo, Ohio, assignors to Doehler Die Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,300,739; Apr. 15; v. 261; p. 525.
- Kramb, William J., Rochester, N. Y. Collar-button. No. 1,313,996; Aug. 26; v. 265; p. 489.
- Kramer, Abe, Des Moines, Iowa. Safety-envelop. No. 1,295,527; Feb. 25; v. 259; p. 682.
- Kramer, Albert, *et al.* (See Crowley, Richard J., assignor.)
- Kramer, Anders, (now by judicial change of name Ivan M. Prokofieff,) assignor of one-half to A. N. Van Deman, New York, N. Y. Manufacturer's lathe. No. 1,298,967; Apr. 1; v. 261; p. 81.
- Kramer, Andrew A. (See Livengood, Winfield S., assignor.)
- Kramer, Arthur G., Dayton, Ohio. Dividers. No. 1,317,879; Oct. 7; v. 267; p. 42.
- Kramer, Charles, New York, N. Y. Settee. No. 1,318,569; Oct. 14; v. 267; p. 235.
- Kramer, Christoph A., Spokane, Wash. Portable lamp. No. 1,295,333; Feb. 25; v. 259; p. 637.
- Kramer, Edward H., Cleveland, Ohio. Removing the coating from galvanized iron. No. 1,315,779; Sept. 9; v. 266; p. 246.
- Kramer, Ernest A. (See Allen, William H., assignor.)
- Kramer, George, Spokane, Wash. Automatic cut-out. No. 1,324,907; Dec. 16; v. 269; p. 424.
- Kramer, George W., Peoria, Ill. Machine for making blocks. No. 1,296,090; Mar. 4; v. 260; p. 62.
- Kramer, John J., and H. Smorling, assignors to La Crosse Rubber Mills Company, La Crosse, Wis. Boot-stripping device. No. 1,299,399; Apr. 1; v. 261; p. 178.
- Kramer, Julius. (See Bartlett, Harry D., assignor.)
- Kramer, Louis. (See Neuberg and Kramer.)
- Kramer, Louis A., Chicago, Ill. Hog lehairing and scraping machine. No. 1,325,893; Dec. 23; v. 269; p. 625.
- Kramer Rotary Harrow Company. (See Rapp, Mathew, assignor.)
- Kramers, Johannes C. H., Nijmegen, Netherlands. Absorption of carbon dioxide from gaseous mixtures. No. 1,290,244; Jan. 7; v. 258; p. 56.
- Kranebiel, John V., Williamsville, N. Y. Oil-burner. No. 1,324,507; Dec. 9; v. 269; p. 288.
- Kranich, Victor, assignor to F. S. Marden, New York, N. Y. Electric switch. No. 1,323,368; Dec. 2; v. 269; p. 28.
- Krantz, Edward G., Highland, Ill. Clutch-lock for automobiles. No. 1,321,216; Nov. 11; v. 268; p. 225.
- Krantz, Hubert, assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Key-controlled device. No. 1,292,485; Jan. 28; v. 258; p. 668.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Self-locking safety device. No. 1,292,805; Jan. 28; v. 258; p. 745.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Removable safety-switch. No. 1,292,806; Jan. 28; v. 258; p. 745.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety-panel-box. No. 1,292,807; Jan. 28; v. 258; p. 746.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,292,808; Jan. 28; v. 258; p. 746.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety-panel-box. No. 1,292,809; Jan. 28; v. 258; p. 746.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,292,810; Jan. 28; v. 258; p. 746.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Clamping device. No. 1,302,674; May 6; v. 262; p. 36.
- Krantz, Hubert, assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switchboard mechanism. No. 1,305,376; June 3; v. 263; p. 28.
- Krantz, Hubert, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc. Floor-box. No. 1,305,610; June 3; v. 263; p. 74.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switchboard. No. 1,305,374; June 3; v. 263; p. 27.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Motor-starting switch. No. 1,305,375; June 3; v. 263; p. 27.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Electric switch. No. 1,306,340; June 10; v. 263; p. 241.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Shift-socket meter-panel. No. 1,306,341; June 10; v. 263; p. 241.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch-panel. No. 1,306,342; June 10; v. 263; p. 241.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety shutter-panel. No. 1,306,343; June 10; v. 263; p. 242.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety-switchboard. No. 1,306,344; June 10; v. 263; p. 242.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,306,345; June 10; v. 263; p. 242.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,306,346; June 10; v. 263; p. 242.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,306,347; June 10; v. 263; p. 242.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch-board or switch-panel. No. 1,320,154; Oct. 28; v. 267; p. 584.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Multiple-unit safety-switchboard. No. 1,324,161; Dec. 9; v. 269; p. 221.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Brooklyn, N. Y. Safety panel-box. No. 1,324,555; Dec. 9; v. 269; p. 297.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Multiple switch. No. 1,324,908; Dec. 16; v. 269; p. 424.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Oil-switch box. No. 1,324,909; Dec. 16; v. 269; p. 424.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Electric switchboard. No. 1,324,910; Dec. 16; v. 269; p. 425.
- Krantz, Hubert, New York, N. Y., assignor to Krantz Manufacturing Company, Inc. Outlet-box. No. 1,305,611; June 3; v. 263; p. 74.
- Krantz, Hubert F., Brooklyn, N. Y., assignor, by mesne assignments, to Krantz Manufacturing Company, Inc. Switchboard. (Reissue.) No. 14,631; Apr. 8; v. 261; p. 393.
- Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
- Krapf, Charles H., Brooklyn, N. Y. Adjustable slicing-knife. No. 1,305,906; June 3; v. 263; p. 127.
- Krapp, Max. (See Hueller and Krapp.)
- Krapp, Marius C., New York, N. Y. Spring-regulator. No. 1,326,600; Dec. 30; v. 269; p. 794.
- Krasnodemski, John, Joliet, Ill. Toy pistol. No. 1,310,754; July 22; v. 264; p. 602.
- Krasnyanik, Mike, Boswell, Pa. Wire-cutter. No. 1,317,632; Sept. 30; v. 266; p. 695.
- Kratz, Franz, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electric switch. No. 1,311,974; Aug. 5; v. 265; p. 23.
- Kratz, Franz, and M. Schäfer, Stuttgart, Germany, assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Internal-combustion motor. No. 1,313,090; Aug. 12; v. 265; p. 268.



## Alphabetical list of patentees—Continued.

- Kratz, Henry S., Danboro, Pa. Shirt. No. 1,306,228; June 10; v. 263; p. 219.
- Kratzer, Herbert J., St. Louis, Mo. Road-bed. No. 1,301,064; Apr. 15; v. 261; p. 596.
- Krause, Arthur E., Mountain Lakes, N. J. Clarifying and reboiling water, particularly for ice-making. No. 1,315,558; Sept. 9; v. 266; p. 208.
- Krause, August W. (See Mikulik and Krause.)
- Krause, David, Cleveland, Ohio. Hulling-machine. No. 1,305,811; June 3; v. 263; p. 110.
- Krause, Edwin. (See Seaver, William H., assignor.)
- Krause, Ernst, Steglitz, near Berlin, and H. Blücher, Leipzig-Gohlis, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Plastic mass and making same. No. 1,319,666; Oct. 21; v. 267; p. 469.
- Krause, Frederick W., North Bend, Oreg. Hair-clipper. No. 1,301,712; Apr. 22; v. 261; p. 759.
- Krause, Henry. (See Stege and Krause.)
- Krause, Norman R. (See Crandall and Krause.)
- Krause, Oscar, Lehr, N. D. Spring-motor power for driving automobiles. No. 1,303,483; May 13; v. 262; p. 216.
- Krause, Robert J., Dehesa, Calif. Container and sealing-ring therefor. No. 1,312,913; Aug. 12; v. 265; p. 232.
- Krause, Will T., Dinuba, Calif. Pump. No. 1,305,290; June 3; v. 263; p. 12.
- Krause, William P., assignor to Hanna Engineering Works, Chicago, Ill. Engine for punching-machines. No. 1,306,067; June 10; v. 263; p. 188.
- Krause, William P., assignor to Hanna Engineering Works, Chicago, Ill. Cup-leather packing. No. 1,313,997; Aug. 26; v. 265; p. 489.
- Krause, William P., Chicago, Ill., assignor to Mumford Molding Machine Company, Jersey City, N. J. Split-pattern molding-machine. No. 1,316,166; Sept. 16; v. 266; p. 333.
- Krauss, Adalbert, assignor to L. Levi, New York, N. Y. Lamp-shade and similar plaited article. No. 1,302,382; Apr. 29; v. 261; p. 917.
- Krauss, Adolf, Cannstatt, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Current-interrupter for use in electric ignition devices of internal-combustion motors. No. 1,320,871; Nov. 4; v. 268; p. 96.
- Krauss, Jacob, Cleveland, Ohio. Top-frame for automobiles. No. 1,294,811; Feb. 18; v. 259; p. 494.
- Krauss, Louis, New York, N. Y. Rotary brush. No. 1,326,744; Dec. 30; v. 269; p. 821.
- Krauss, Max, Philadelphia, Pa. Talking-machine. No. 1,291,027; Jan. 14; v. 258; p. 268.
- Krauss, Max, Philadelphia, Pa. Talking-machine. No. 1,291,556; Jan. 14; v. 258; p. 390.
- Kraut, Max, Los Angeles, Calif. Ore-separator. No. 1,322,909; Nov. 25; v. 268; p. 646.
- Krauth, Albert, deceased, Hamilton, Ohio; F. G. Diesbach, administrator. Manifolding-machine. No. 1,294,119; Feb. 11; v. 259; p. 298.
- Krauth, Albert, deceased, Hamilton, Ohio; F. G. Diesbach, administrator. Folding music-stand. No. 1,308,956; July 8; v. 264; p. 202.
- Krauth, Albert, deceased, Hamilton, Ohio; F. G. Diesbach, administrator. Music-stand. No. 1,312,485; Aug. 5; v. 265; p. 119.
- Krauth, Albert, assignor to Krauth & Benninghofen, Hamilton, Ohio. Autographic manifolding and cash register. No. 1,307,679; June 24; v. 263; p. 551.
- Krauth & Benninghofen. (See Krauth, Albert, assignor.)
- Krautter, William F., Chicago, Ill., assignor, by mesne assignments, to International Time Recording Company of New York, New York, N. Y. Mechanical motor. No. 1,310,023; July 15; v. 264; p. 437.
- Krauz, Josef, Franklin, N. H. Carrier. No. 1,308,759; July 8; v. 264; p. 166.
- Krawczyk, James, Syracuse, N. Y. Keyed zither. No. 1,310,024; July 15; v. 264; p. 437.
- Krawczynski, Joseph, assignor of one-half to J. H. Mathews, Worcester, Mass. Artificial arm. No. 1,301,575; Apr. 22; v. 261; p. 731.
- Krawczynszyn, Hawryil, Pittsburgh, Pa. Horseshoe. No. 1,302,675; May 6; v. 262; p. 36.
- Kreamer, Ethel H., Wheeling, W. Va. Mitten. No. 1,310,120; July 15; v. 264; p. 455.
- Krebs, John C. L., and W. W. Wells, Clyde, Ohio. Variable-speed-governor control. No. 1,324,198; Dec. 9; v. 269; p. 228.
- Krebs, John C. L., and W. W. Wells, Clyde, Ohio. Variable-speed-governor control. No. 1,325,478; Dec. 16; v. 269; p. 530.
- Krebs, Joseph, Bedford Hills, N. Y. Clothes-hanger. No. 1,318,290; Oct. 7; v. 267; p. 121.
- Krecioch, Albert. (See Krecioch, Jan A. and A.)
- Krecioch, Jan A. and A., Fall River, Mass. Submersible mine controller and observation station. No. 1,296,816; Mar. 11; v. 260; p. 261.
- Kreer, Oscar G., Detroit, Mich. Hose-holder. No. 1,323,535; Dec. 2; v. 269; p. 58.
- Krekow, Franklin M., Tacoma, Wash. Plate-tightener. No. 1,322,246; Nov. 18; v. 268; p. 470.
- Kremer, George C., Danforth, Ill. Tank-heater. No. 1,323,070; Nov. 25; v. 268; p. 676.
- Kremer, John. (See White and Kremer.)
- Kremers, Peter P. C., assignor to John and James Dobson, Incorporated, Philadelphia, Pa. Stop-motion device for looms. No. 1,294,482; Feb. 18; v. 259; p. 418.
- Krenke, Otto, assignor to Anker Hoth Manufacturing Company, Port Huron, Mich. Cream-separator. No. 1,298,058; Mar. 25; v. 260; p. 584.
- Krenke, Otto A., assignor to Anker Hoth Manufacturing Company, Port Huron, Mich. Yieldable bearing. No. 1,298,059; Mar. 25; v. 260; p. 584.
- Kretzer, Sidney D., St. Louis, Mo. Lightning-rod coupling. No. 1,313,391; Aug. 19; v. 265; p. 341.
- Kreusler, Arnold, Los Angeles, Calif. Sound-reproducing instrument. No. 1,318,675; Oct. 14; v. 267; p. 255.
- Kreutner, Epatha R. H., Kansas City, Mo. Doll furniture. No. 1,290,759; Jan. 7; v. 258; p. 180.
- Kreuzhage, Paul, assignor to Firm of P. Lechler, Stuttgart, Germany. Spray-nozzle. No. 1,319,527; Oct. 21; v. 267; p. 443.
- Kreuzkamp, August J., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Bed-spring. No. 1,297,697; Mar. 18; v. 260; p. 482.
- Kreuzkamp, Paul W., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Bed-spring. No. 1,297,698; Mar. 18; v. 260; p. 482.
- Krick, Arthur E., assignor to The Humidity Control Company, Indianapolis, Ind. Humidity control. No. 1,315,517; Sept. 9; v. 266; p. 200.
- Kriebel, Joseph S., East Greenville, Pa. Vegetable-cutter. No. 1,296,091; Mar. 4; v. 260; p. 63.
- Krieg, Alfred, Minneapolis, Minn., assignor to Emerson-Brantingham Company, Rockford, Ill. Tractor transmission mechanism. No. 1,291,932; Jan. 21; v. 258; p. 514.
- Krieg, Alfred, Minneapolis, Minn., assignor to Emerson-Brantingham Company, Rockford, Ill. Transmission mechanism. No. 1,298,060; Mar. 25; v. 260; p. 584.
- Krieger, Alexander F., St. Joseph, Mich. Mail-box for rural districts. No. 1,298,225; Mar. 25; v. 260; p. 620.
- Krieger, George F., Grand Rapids, Wis. Tool-holder. No. 1,315,134; Sept. 2; v. 266; p. 120.
- Krieger, Horace F., Baltimore, Md. Convertible chair, swing, stool, and cradle. No. 1,301,713; Apr. 22; v. 261; p. 759.
- Krieger, Hugo, New York, N. Y. Lens-grinding machine. No. 1,313,702; Aug. 19; v. 265; p. 399.
- Krieger, Mathilde N., Danforth, Ill. Poultry-dip holder. No. 1,323,071; Nov. 25; v. 268; p. 677.
- Krieger, Walter F., Milwaukee, Wis. Refrigerating apparatus. No. 1,299,961; Apr. 8; v. 261; p. 333.
- Kriegsheim, Heinrich, assignor to The Permutit Company, New York, N. Y. Purifying water. No. 1,305,123; May 27; v. 262; p. 599.
- Kriegsheim, Heinrich, assignor to The Permutit Company, New York, N. Y. Water-purifying material and making same. No. 1,312,552; Aug. 12; v. 265; p. 161.
- Kring, James, Chicago, Ill. Railway box-car. No. 1,322,310; Nov. 18; v. 268; p. 482.
- Krippendorf, Charles H. (See Fowler, William, assignor.)
- Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Telephone card-index. No. 1,316,544; Sept. 16; v. 266; p. 406.
- Kritz, Frank, assignor to Michigan Steel Tube Products Co., Detroit, Mich. Tube-welding machine. No. 1,296,970; Mar. 11; v. 260; p. 297.
- Krizan, Alois, Philadelphia, Pa. Ice-creeper. No. 1,294,483; Feb. 18; v. 259; p. 419.
- Krizek, Joseph, Gallup, assignor of one-third to P. Kitchen and one-third to J. I. Piseck, McKinley county, N. Mex. Apparatus for securing alcohol from baking bread. No. 1,314,082; Aug. 26; v. 265; p. 505.
- Krodinger, Alois L., Maplewood, Mo. Metal corner-head and stopping-off strip. No. 1,298,357; Mar. 25; v. 260; p. 647.
- Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Film-camera. No. 1,303,918; May 20; v. 262; p. 334.
- Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film camera. No. 1,314,523; Sept. 2; v. 266; p. 9.
- Kroeger, Edwin J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Battery-jar mold. No. 1,296,092; Mar. 4; v. 260; p. 63.
- Kroenung, Francis S., St. Louis, Mo. Roller-screen. No. 1,297,365; Mar. 18; v. 260; p. 411.
- Kroetz, Mary M., San Francisco, Calif. Support for the correction of malpositions of the cervical vertebrae and the occiput. No. 1,301,276; Apr. 22; v. 261; p. 875.
- Kroff, Leonard D., assignor to Evan L. Reed Manufacturing Company, Sterling, Ill. Rack for seed-packets. No. 1,311,975; Aug. 5; v. 265; p. 23.
- Kroff, Leonard D., assignor to Evan L. Reed Manufacturing Company, Sterling, Ill. Display-rack for goods. No. 1,311,976; Aug. 5; v. 265; p. 23.
- Kroff, Leonard D., assignor to Evan L. Reed Manufacturing Company, Sterling, Ill. Can tilting and opening rack. No. 1,323,775; Dec. 2; v. 269; p. 103.
- Krog, Carl J., assignor to Krog Railway Safeguards Limited, Greenmount, Queensland, Australia. Automatic safety train device. No. 1,303,806; May 13; v. 262; p. 276.



- Krog Railway Safeguards. (See Krog, Carl J., assignor.)  
 Krogen, Julius J., Bottineau, N. D. Shock-loader. No. 1,306,597; June 10; v. 263; p. 288.  
 Kroger, Fred H., and W. P. Powers, Brooklyn, N. Y., assignors to International Signal Company, Pittsburgh, Pa. Speed-governor. No. 1,320,768; Nov. 4; v. 268; p. 77.  
 Krogh, Ferdinand W., San Francisco, Calif. Turbine deep-well pump. No. 1,304,068; May 20; v. 262; p. 361.  
 Krogman, Joe, New Hampton, Iowa. Whiffletree-connector. No. 1,324,556; Dec. 9; v. 269; p. 297.  
 Krohe, Frederick L., Wheeling, W. Va. Foldable portable clothes-hanger. No. 1,322,585; Nov. 25; v. 268; p. 586.  
 Krohmer, William F., assignor to Goes Lithographing Company, Chicago, Ill. Loose-leaf binder. No. 1,293,807; Feb. 11; v. 259; p. 225.  
 Kroll, John, Passaic, N. J. Tree-holder. No. 1,319,009; Oct. 14; v. 267; p. 319.  
 Kroll, Philip J., Pittsburgh, Pa. Electrolytic apparatus. No. 1,306,151; June 10; v. 263; p. 203.  
 Kromer, Emil, Springfield, Mo. Boring-tool. No. 1,303,071; May 6; v. 262; p. 112.  
 Kronauer, Charles, Chicago, Ill. Trace construction. No. 1,318,291; Oct. 7; v. 267; p. 121.  
 Kronenberg, Christian, Madison, Wis. Revolving seed-selector. No. 1,301,277; Apr. 22; v. 261; p. 675.  
 Kronfeld, Gustav L. S. (See Starkner and Kronfeld.)  
 Kronthal, Benjamin. (See Spero, Samuel, assignor.)  
 Kroon, Charles F. (See Olson and Kroon.)  
 Kropacz, John, Rosedale, Alberta, Canada. Steam-whistle diaphragm. No. 1,311,355; July 29; v. 264; p. 747.  
 Kropp, John A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,324,356; Dec. 9; v. 269; p. 258.  
 Kroska, Herman, Pomeroy, Iowa. Comb cleaner and holder. No. 1,291,028; Jan. 14; v. 258; p. 268.  
 Krossin, Harold S., St. Paul, Minn. Coffee-pot. No. 1,325,479; Dec. 16; v. 269; p. 530.  
 Krotz, Alvaro S., assignor to The Janesville Machine Company, Janesville, Wis. Tractor. No. 1,292,398; Jan. 21; v. 258; p. 626.  
 Krotz, Alvaro S., assignor to Janesville Machine Company, Janesville, Wis. Planting-machine marker. No. 1,306,152; June 10; v. 263; p. 203.  
 Krotz, Alvaro S., assignor to Janesville Machine Company, Janesville, Wis. Planter valve mechanism. No. 1,306,153; June 10; v. 263; p. 204.  
 Krotzer, Melvin E., Pemberville, Ohio. Boot-robe. No. 1,302,179; Apr. 29; v. 261; p. 878.  
 Kroyer, John M., Stockton, Calif. Combination tractor-frame and transmission-housing. No. 1,307,555; June 24; v. 263; p. 529.  
 Kroyer, John M., Stockton, Calif. Tractor. No. 1,308,790; July 8; v. 264; p. 171.  
 Kruecke Bros. Mfg. Co. (See Kruecke, Herman E., assignor.)  
 Kruecke, Herman E., assignor to Kruecke Bros. Mfg. Co., Milwaukee, Wis. Drinking-fountain. No. 1,290,583; Jan. 7; v. 258; p. 137.  
 Kruecke, Herman E., assignor to Kruecke Bros. Mfg. Co., Milwaukee, Wis. Faucet. No. 1,293,476; Feb. 4; v. 259; p. 116.  
 Krueger, Bernhard H., New Rochelle, N. Y. Vanity-puff. No. 1,326,745; Dec. 30; v. 269; p. 821.  
 Krueger, Henry R., assignor to Cadillac Tool Co., Detroit, Mich. Underboring-tool. No. 1,312,737; Aug. 12; v. 265; p. 198.  
 Krueger, Herman H., Chicago, Ill. Soldering-iron. No. 1,291,557; Jan. 14; v. 258; p. 390.  
 Krueger, Theodore H., Bridgeport, Conn. Moistening device for gummed tape, labels, and the like. No. 1,312,486; Aug. 5; v. 265; p. 119.  
 Krueger, W. O., et al., trustees. (See Stanard, Maurice L., assignor.)  
 Krueger, Walter R. (See Mahoney and Krueger.)  
 Krug, Julius, and S. Schermann, St. Louis, Mo. Burglar-alarm. No. 1,309,529; July 8; v. 264; p. 309.  
 Krug, William H., Oshkosh, Wis. Coupling for antiskid-chains. No. 1,302,470; Apr. 29; v. 261; p. 934.  
 Krug, William H., Oshkosh, Wis. Antiskid device. No. 1,305,377; June 3; v. 263; p. 28.  
 Krug, William H., Oshkosh, Wis. Coupling for antiskid attachments. No. 1,307,055; June 17; v. 263; p. 405.  
 Krug, William H., Oshkosh, Wis. Antiskid device for vehicles. No. 1,310,536; July 22; v. 264; p. 562.  
 Kruger, Harry B. (See Stranders, Julien, assignor.)  
 Krum, Charles L. and H. L., assignors to Morkrum Company, Chicago, Ill. Printing-telegraph. No. 1,305,225; May 27; v. 262; p. 619.  
 Krum, Charles L. and H. L., assignors to Morkrum Company, Chicago, Ill. Telegraph-transmitter. No. 1,326,456; Dec. 30; v. 269; p. 767.  
 Krum, Howard L. (See Krum, Charles L. and H. L.)  
 Krum, Maxwell, Brooklyn, N. Y. Curtain-stretcher. No. 1,302,180; Apr. 29; v. 261; p. 878.  
 Krumlaw, George D., Ashland, Ohio. Insect-destroyer. No. 1,299,580; Apr. 8; v. 261; p. 247.  
 Krupa, Michal, assignor of one-fourth to J. Dzingel, Jerome, Pa. Locking device for coal-cutting trucks. No. 1,311,901; Aug. 5; v. 265; p. 10.  
 Krupp, Leo A., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. External-wrench head. No. 1,315,314; Sept. 9; v. 266; p. 164.  
 Kruse, Frode A., Tyler, Minn. Cow-tail holder. No. 1,298,061; Mar. 25; v. 260; p. 584.  
 Kruse, Herman, Jersey City, and W. C. Kruse, Union, N. J. Ink. No. 1,309,292; July 8; v. 264; p. 263.  
 Kruse, John, New Orleans, La. Insect-proof attachment for furniture and other articles. No. 1,305,553; June 3; v. 263; p. 61.  
 Kruse, John, New Orleans, La. Rendering wood insect-repellent. No. 1,312,634; Aug. 12; v. 265; p. 178.  
 Kruse, Lizzie M., et al. (See Williams, Frank P., assignor.)  
 Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for seaming heads or ends on cans. No. 1,313,998; Aug. 26; v. 265; p. 489.  
 Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for working on cans. No. 1,317,926; Oct. 7; v. 267; p. 50.  
 Kruse, Theodore H., Arvada, Colo. Rail-fastening device. No. 1,304,692; May 27; v. 262; p. 519.  
 Kruse, Theodore H., assignor of one-half to M. G. Demetz, Arvada, Colo. Copy-holder. No. 1,312,035; Aug. 5; v. 265; p. 35.  
 Kruse, William C. (See Kruse, Herman and W. C.)  
 Kruse, William G., Graham, Wash. Clutch transmission mechanism. No. 1,304,990; May 27; v. 262; p. 574.  
 Krynitzky, Alexander I., Philadelphia, Pa. Automatic gas cut-off or alarm. No. 1,294,484; Feb. 18; v. 259; p. 419.  
 Kryzanowsky, Constant J., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Remover or opener for bottle-caps. No. 1,324,830; Dec. 16; v. 269; p. 410.  
 Krzyzanowski, Theodore R., Philadelphia, assignor of one-half to S. S. Pinder, Wall, Pa., and ten one-hundredths to F. Gliwski, Chicopee, Mass. Armored automobile. No. 1,295,177; Feb. 25; v. 259; p. 601.  
 Krzyzanowski, Theodore R., Philadelphia, assignor of ten one-hundredths to F. Gliwski, Chicopee, Mass., and one-half to S. S. Pinder, Wall, Pa. Anti-aircraft gun. No. 1,297,699; Mar. 18; v. 260; p. 482.  
 Kubenka, Otto E., and A. W. Janszen, Moulton, Tex. Cultivator. No. 1,320,068; Oct. 28; v. 267; p. 568.  
 Kubish, John, Indian Orchard, Mass. Flying-machine. No. 1,313,825; Aug. 19; v. 265; p. 422.  
 Kubler, Elias. (See Bach and Kubler.)  
 Kubli, Heinrich, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Manufacture of easily-soluble compounds of the C. C. Dialkylbarbituric Acids. No. 1,316,047; Sept. 16; v. 266; p. 311.  
 Kubly, Henry F., Monticello, Wis. Hay-sling. No. 1,319,291; Oct. 21; v. 267; p. 398.  
 Kucera, George, Grand Island, Nebr. Hacksaw. No. 1,311,078; July 22; v. 264; p. 662.  
 Kuchan, Zanon V., Aberdeen, Wash. Railway-tie. No. 1,319,010; Oct. 14; v. 267; p. 319.  
 Kucharek, Joseph. (See Jacqmair and Kucharek.)  
 Kuebler, Elias. (See Bach, Roeger, and Kuebler.)  
 Kuehl, Joseph, Detroit, Mich. Resilient wheel. No. 1,293,808; Feb. 11; v. 259; p. 225.  
 Kuehl, Ludwig T., assignor, by mesne assignments, to Baker-Vawter Company, Benton Harbor, Mich. Filing-cabinet. No. 1,304,991; May 27; v. 262; p. 574.  
 Kuehn, George J. (See Stebler and Kuehn.)  
 Kuehn, Louis, Milwaukee, assignor to Milwaukee Corrugating Company, Greenfield, Wis. Sheet-metal shingle. No. 1,306,488; June 10; v. 263; p. 268.  
 Kuehnast, Fred W. (See Lawson, Harry, assignor.)  
 Kuehne, Charles F., and P. Donaher, Oakland, Calif. Brake-staff. No. 1,308,363; July 1; v. 264; p. 65.  
 Kuehne, Joseph E., Newark, N. J. Spark-plug. No. 1,314,406; Aug. 26; v. 265; p. 568.  
 Kuehnelt, William R., Chicago, Ill. Window-cleaning device. No. 1,293,125; Feb. 4; v. 259; p. 36.  
 Kuehner, Charles P., Providence, R. I. Umbrella-frame. No. 1,290,245; Jan. 7; v. 258; p. 56.  
 Kuehner, Charles P., Providence, R. I. Umbrella-frame. No. 1,326,672; Dec. 30; v. 269; p. 807.  
 Kuen, Eugene A., assignor, by mesne assignments, to The Corcoran-Victor Company, Cincinnati, Ohio. Lamp. No. 1,294,485; Feb. 18; v. 259; p. 419.  
 Kuen, Eugene A., assignor, by mesne assignments, to The Corcoran-Victor Company, Cincinnati, Ohio. Making reflectors. No. 1,294,486; Feb. 18; v. 259; p. 419.  
 Kuenstler, Richard, Chicago, Ill. Phonograph-stop. No. 1,310,484; July 22; v. 264; p. 552.  
 Kuentz, Herman H., Milwaukee, Wis. Egg-case. No. 1,318,500; Oct. 14; v. 267; p. 222.  
 Kuentz, Herman H., Milwaukee, Wis. Egg-case. No. 1,320,069; Oct. 28; v. 267; p. 568.  
 Kuentzel, Curt, Youngstown, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, Akron, Ohio. Stock-rack for tire-building machines. No. 1,304,492; May 20; v. 262; p. 443.  
 Kuentzel, Curt, assignor to The Republic Rubber Company, Youngstown, Ohio. Flexible shaft-coupling. No. 1,316,903; Sept. 23; v. 266; p. 520.



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- Kuentzel, Curt, New York, N. Y., assignor to The Good-year Tire & Rubber Company, Akron, Ohio. Tire-machine. No. 1,317,374; Sept. 30; v. 266; p. 645.
- Kuentzler, Henry, Luzerne, assignor to The Adder Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,305,124; May 27; v. 262; p. 599.
- Kueppers, Karl, Aachen, Germany. Method of and apparatus for forming glass tubes. No. 1,301,714; Apr. 22; v. 261; p. 759.
- Kuester, August F., Clintonville, Wis. Light-duty portable grading apparatus. No. 1,316,046; Sept. 16; v. 266; p. 310.
- Kuettner, Edwin J., Raleigh, N. C. Bearing. No. 1,299,357; Apr. 1; v. 261; p. 168.
- Kuever, Rudolph A. (See Arent, Arthur, assignor.)
- Kuffel, David C., Randsburg, assignor of one-half to V. Schmidt, Los Angeles, Cal. Safety coupling-hook. No. 1,293,126; Feb. 4; v. 259; p. 36.
- Kugel, Joseph J., Chicago, Ill. Decorative crucifix. No. 1,294,279; Feb. 11; v. 259; p. 335.
- Kugler, Andrew, Wagoner, Okla. Rail-fastener. No. 1,292,811; Jan. 28; v. 258; p. 746.
- Kuharchek, Prokofy, Jerome, Pa. Ship-fender. No. 1,296,669; Mar. 11; v. 260; p. 227.
- Kuhfuss, William, Brooklyn, N. Y. Window-fastener. No. 1,296,817; Mar. 11; v. 260; p. 261.
- Kuhlman, Henry D., Westpoint, Nebr. Animal-dehorning stock. No. 1,323,072; Nov. 25; v. 268; p. 677.
- Kuhlman, William H., Fergus Falls, Minn. Spring-starter for internal-combustion engines. No. 1,325,643; Dec. 23; v. 269; p. 578.
- Kuhls, William J., Dayton, Ohio. Lock. No. 1,311,606; July 29; v. 264; p. 794.
- Kuhn, Chas. F., et al. (See Lieske, Frank J., assignor.)
- Kuhn, Emil, Basel, Switzerland. Manufacture of mercury oxid. No. 1,299,581; Apr. 8; v. 261; p. 247.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electrical-circuit-closing contact. No. 1,291,933; Jan. 21; v. 258; p. 515.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Oven. No. 1,298,358; Mar. 25; v. 260; p. 647.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric heater. No. 1,307,556; June 24; v. 263; p. 529.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heating unit. No. 1,307,587; June 24; v. 263; p. 535.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heating unit. No. 1,320,155; Oct. 28; v. 267; p. 584.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heating unit. No. 1,322,701; Nov. 25; v. 268; p. 607.
- Kuhn, Frank, and F. E. Shailor, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heating unit. No. 1,310,994; July 22; v. 264; p. 646.
- Kuhn, Frank, J. A. Hand, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Electrically-heated tool. No. 1,316,368; Sept. 16; v. 266; p. 371.
- Kuhn, Frank, J. A. Hand, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Electrically-heated tool. No. 1,320,156; Oct. 28; v. 267; p. 584.
- Kuhn, Frank, J. A. Hand, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Electrically-heated instrument. No. 1,324,969; Dec. 16; v. 269; p. 436.
- Kuhn, Frederick X., Brookline, Mass. Ice-cream-brick cutter. No. 1,325,726; Dec. 23; v. 269; p. 594.
- Kuhn, George. (See Reisch and Kuhn.)
- Kuhn, Harry A., Pittsburgh, Pa. Disrupting device for mining-machines. No. 1,320,872; Nov. 4; v. 268; p. 97.
- Kuhn, John J. (See Stiles, Linford S., assignor.)
- Kuhn, Robert B., Canton, Ohio. Air-cooled engine. No. 1,307,680; June 24; v. 263; p. 551.
- Kuhn Tractor Truck Company. (See Kuhn, William O., assignor.)
- Kuhn, William O., assignor to Kuhn Tractor Truck Company, Seattle, Wash. Transmission-gearing for motor-vehicles. No. 1,307,632; June 24; v. 263; p. 543.
- Kuhne, Paul, Birmingham, Ala. Reinforcing-bar. No. 1,311,864; July 29; v. 264; p. 841.
- Kuhnert, Walter A. (See Wrinkle and Kuhnert.)
- Kuhnenn, Lester F. (See Amende, Kuhnenn, and Henry.)
- Kuhns, John H., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Pot-sweep. No. 1,323,478; Dec. 2; v. 269; p. 48.
- Kuhns, Milton S., Kutztown, Pa. Necktie-stretcher. No. 1,302,383; Apr. 29; v. 261; p. 917.
- Kuhr, Carl A., Cincinnati, Ohio, assignor to A-C Manufacturing Company, Chicago, Ill. Brake for motor-vehicles. No. 1,323,990; Dec. 2; v. 269; p. 144.
- Kubsiek, Albert J. H., Richmond Hill, N. Y., assignor to Edward V. Hartford, Inc. attaching device for shock-absorbers and the like. No. 1,314,272; Aug. 26; v. 265; p. 542.
- Kubsiek, Albert J. H., Richmond Hill, N. Y., assignor to Edward V. Hartford, Inc. Bumper-supporting bracket. No. 1,322,121; Nov. 18; v. 268; p. 446.
- Kuijper, Cornelis W. Den Hulst, a. d. Dedemsvaart, Netherlands. Brake mechanism for vehicles. No. 1,306,766; June 17; v. 263; p. 352.
- Kulluk, John. (See Struzas and Kulluk.)
- Kuldell, Rudolph C., U. S. Army. Universal plotting instrument. No. 1,321,924; Nov. 18; v. 268; p. 410.
- Kulick, Andrew L., Detroit, Mich. Spark-plug. No. 1,321,217; Nov. 11; v. 268; p. 225.
- Kumagal, Buntaro, Seattle, Wash. Pencil-sharpener. No. 1,296,971; Mar. 11; v. 260; p. 297.
- Kumler, Roy W., Detroit, Mich. Automobile-lock. No. 1,292,486; Jan. 28; v. 258; p. 669.
- Kummer, John, et al. (See Michele, John, assignor.)
- Kummerow, Ferdinand C., Chicago, Ill. Steam-supply means for bakeries. No. 1,293,477; Feb. 4; v. 259; p. 117.
- Kunath, Adine, Brooklyn, N. Y. Card-table cover. No. 1,326,746; Dec. 30; v. 269; p. 821.
- Kundtson, Arthur C., Ettrick, Wis. Paper-tearing device. No. 1,325,300; Dec. 16; v. 269; p. 498.
- Kuncman, Alexander E., Erie, Pa. Window. No. 1,303,331; May 13; v. 262; p. 189.
- Kuney, Agnes D., Earlville, Ill. Fly-guard. No. 1,308,597; July 1; v. 264; p. 108.
- Kuniholm, Hugo M., Gardner, Mass., assignor to Stock-bridge Machine Company. Tool-controlling device for shaping-machines. No. 1,291,934; Jan. 21; v. 258; p. 515.
- Kunisawa, Reikzo, Tokoro Gun, Hokkaido, Japan. Sunken-vessel-floating apparatus or salvage apparatus. No. 1,321,060; Nov. 4; v. 268; p. 132.
- Kunkel, Elzy O., Midian, Towanda township, Butler county, Kans. Plug. No. 1,317,197; Sept. 30; v. 266; p. 611.
- Kunkel, Victor V., Los Angeles, Calif. Honeycomb foundation. No. 1,323,870; Dec. 2; v. 269; p. 121.
- Kunkely, Oswald S., New York, N. Y. Labeling-machine. No. 1,294,918; Feb. 18; v. 259; p. 520.
- Kunkle, Bayard D., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Automobile starting-switch. No. 1,314,524; Sept. 2; v. 266; p. 9.
- Kunkler, Clarence A., Columbus, Ohio. Sanitary comb. No. 1,305,226; May 27; v. 262; p. 619.
- Kunst, John, New York, N. Y. Noodle-making device. No. 1,301,065; Apr. 15; v. 261; p. 597.
- Küntziger, Jean, H. Chauvin, and F. Fontaine, Liege, Belgium. Circuit-breaker. No. 1,298,736; Apr. 1; v. 261; p. 27.
- Kuntzmann, Henry F., Brooklyn, N. Y. Electric welding-tongs. No. 1,314,674; Sept. 2; v. 266; p. 38.
- Kunz, Alphonse M., St. Louis, Mo. Soft collar. No. 1,325,442; Dec. 16; v. 269; p. 523.
- Kunz Garmiss Company. (See Kunz, William H., assignor.)
- Kunz, William H., Boston, Mass., assignor to Kunz Garmiss Company. Light-dividing device. No. 1,319,292; Oct. 21; v. 267; p. 398.
- Kunz, William H., Boston, Mass., assignor to Kunz-Garmiss Company. Color photography. No. 1,320,625; Nov. 4; v. 268; p. 50.
- Kunze, Arthur F., Montreal, Quebec, Canada. Crib drop-side latch. No. 1,306,593; June 10; v. 263; p. 288.
- Kupferman, Oscar, Brooklyn, N. Y. Socket for incandescent lamps. No. 1,301,456; Apr. 22; v. 261; p. 710.
- Kupferman, Oscar, Brooklyn, N. Y. Lamp-socket. No. 1,301,457; Apr. 22; v. 261; p. 710.
- Kuppler, George W. (See Young, Conrad G., assignor.)
- Kureitch, Frank R., Sunnyside, Utah. Door-latch. No. 1,318,011; Oct. 14; v. 267; p. 319.
- Kurk, Henry, New Albin, Iowa. Tractor-wheel. No. 1,316,453; Sept. 16; v. 266; p. 387.
- Kurka, Maik, Toronto, Ontario, Canada. Flycatcher. No. 1,311,281; July 29; v. 264; p. 732.
- Kurman, Nathan A., New York, N. Y., assignor to International Callophone Corporation. Loud-speaking intercommunicating telephone system. No. 1,307,981; June 24; v. 263; p. 607.
- Kurose, Kaemon, Seattle, Wash. Aeroplane. No. 1,291,679; Jan. 14; v. 258; p. 420.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,302,566; May 6; v. 262; p. 16.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,302,676; May 6; v. 262; p. 37.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,315,559; Sept. 9; v. 266; p. 208.
- Kurpol, John, Helvetia, Pa. Comb and brush. No. 1,310,755; July 22; v. 264; p. 602.
- Kurrasch, H. T. (See Kottke, Edward R., assignor.)
- Kürth, Alfred, Berlin-Wilmersdorf, assignor to Automobil- und Eisenbahnbedarf G. m. b. H., Berlin-Charlottenburg, Germany. Collapsible or folding hood particularly for vehicles. No. 1,305,554; June 3; v. 263; p. 62.
- Kurth, Stephen, New York, N. Y. Massage apparatus. No. 1,314,525; Sept. 2; v. 266; p. 9.



- Kurtz, Cyrus B., Lakewood, Ohio. Power-transmission mechanism. No. 1,293,646; Feb. 4; v. 259; p. 156.
- Kurtz, George H., Meadville, Pa. Duplicating composition. No. 1,321,760; Nov. 11; v. 263; p. 329.
- Kurtz, Katherine, Brooklyn, N. Y. Lining for hats. No. 1,316,797; Sept. 23; v. 266; p. 500.
- Kurtz, Thomas. (See Rose and Kurtz.)
- Kuryla, Michael H., assignor to Merrill Metallurgical Company, San Francisco, Calif. Filtering apparatus. No. 1,302,812; May 6; v. 262; p. 63.
- Kuryla, Michael H., assignor to Merrill Metallurgical Company, San Francisco, Calif. Maintaining filters in filtering condition. No. 1,302,813; May 6; v. 262; p. 63.
- Kuryla, Michael H., assignor to Merrill Metallurgical Company, San Francisco, Calif. Treating mixtures of liquids and solids. No. 1,302,814; May 6; v. 262; p. 63.
- Kurz, Carl A., Columbus, Ohio. Automobile-lock. No. 1,301,576; Apr. 22; v. 261; p. 731.
- Kurz, Charles. (See Kurz, Otto and C.)
- Kurz, Otto and C., New York, N. Y. Focusing device for electric lamps. No. 1,292,616; Jan. 28; v. 258; p. 701.
- Kurz, Otto and C., New York, N. Y. Electric lamp. No. 1,303,332; May 13; v. 262; p. 189.
- Kurzrock, Fred. (See Rohr and Kurzrock.)
- Kusel, Isidor J., assignor to Stronghart Company, Chicago, Ill. Small bank. No. 1,295,768; Feb. 25; v. 259; p. 737.
- Kusnierz, Tony, Easthampton, Mass. Antisubmarine device. No. 1,299,962; Apr. 8; v. 261; p. 333.
- Kuss, Frank, Philadelphia, Pa. Hammer. No. 1,301,715; Apr. 22; v. 261; p. 759.
- Kuss, Rudolf, assignor to A. M. Bollerman, Inc., New York, N. Y. Automatic musical instrument. No. 1,318,773; Oct. 14; v. 267; p. 273.
- Kutchenreiter, Fred L., Springdale, Pa. Internal-combustion engine. No. 1,308,499; July 1; v. 264; p. 89.
- Kutchuk, Zachary, Southwest, Pa. Spring-tire. No. 1,308,908; July 8; v. 264; p. 193.
- Kutz, George A., et al. (See Tibbetts, Fred O., assignor.)
- Kuwada, Tomooki, Oayama, Tokyo, Japan. Automatic-stoking spiral boiler. No. 1,291,935; Jan. 21; v. 258; p. 515.
- Kvarnstrom, Alfred T., Detroit, Mich. Collapsible-body insert for automobiles. No. 1,309,760; July 15; v. 264; p. 389.
- Kux, Albert S., Chicago, Ill. Shock-absorbing device. No. 1,293,809; Feb. 11; v. 259; p. 225.
- Kux, Albert S., Chicago, Ill. Shock-absorbing device. No. 1,293,810; Feb. 11; v. 259; p. 225.
- Kux, Albert S., assignor to Chicago Metal Products Co., Chicago, Ill. Method and means for producing cartridge-chips. No. 1,295,769; Feb. 25; v. 259; p. 738.
- Kvistad, Paul E., Matlock, Wash. Necktie-vest. No. 1,299,582; Apr. 8; v. 261; p. 248.
- Kyle, William D., Milwaukee, Wis. Insulator-bracket. No. 1,311,977; Aug. 5; v. 265; p. 25.
- Kylin, Oskar, assignor to Foster Machine Company, Elkhart, Ind. Clutch. No. 1,309,761; July 15; v. 264; p. 390.
- Kynoch, Limited. (See Bellow, Edward A., assignor.)
- Kyriakos, Costas, Flint, Mich. Gas-saver. No. 1,296,406; Mar. 4; v. 260; p. 133.
- L. Heller & Son. (See Challet, Etienne, assignor.)
- L. Taylor & Co. (See Windbank, Henry, assignor.)
- L. Wolf Manufacturing Company. (See Wolf, Franklyn J., assignor.)
- L. A. Young Industries. (See Fitz Gerald, John W., assignor.)
- L. A. Young Industries. (See Van Dolsen, Emmet L., assignor.)
- L. A. Young Industries. (See Young, Leonard A., assignor.)
- L. B. Skinner Mfg. Co. (See Skinner, Bronson C., assignor.)
- L. C. Smith & Bros. Typewriter Company. (See Gabrielson, Carl, assignor.)
- L. D. Canlk Company, The. (See Smith, William C., assignor.)
- L. G. McKnight & Son Company. (See Maier and McKnight, assignors.)
- L. J. Mueller Furnace Company. (See Buller, Charles M., assignor.)
- L. J. Wing Manufacturing Company. (See Fieux and Wheller, assignors.)
- L. S. Starrett Company, The. (See Boynton, John W., assignor.)
- L. S. Starrett Company, The. (See Starrett, Leroy S., assignor.)
- L. S. E. Co. Inc. (See Parkes, William N., assignor.)
- L. V. Flechter & Company. (See Flechter, Leonard V., assignor.)
- L-W-F Engineering Company. (See Willard, Charles F., assignor.)
- L'Air Liquide (Societe Anonyme Pour L'Etude Et L'Exploitation Des Procèdes Georges Claude). (See Claude, Georges, assignor.)
- La Bate, James H., assignor of one-half to N. M. Johnston, Haverhill, Mass. Scrap-guiding attachment for amazeen skiving-machines. No. 1,326,350; Dec. 30; v. 269; p. 746.
- La Bauve, Lillie W., Houston, Tex. Detachable automobile spring-tire. No. 1,298,062; Mar. 25; v. 260; p. 585.
- La Beau, Henri, Mona, Mont. Music-turner and loose-leaf book. No. 1,324,831; Dec. 16; v. 269; p. 410.
- La Belle, Frederick B., Oklahoma, Okla. Combined slide-loop and leather shield. No. 1,324,599; Dec. 9; v. 269; p. 306.
- La Boissiere, Albert J., C. F. Hanson, and H. D. Chalker, Los Angeles, Cal. Boot-jack hook. No. 1,293,318; Feb. 4; v. 259; p. 81.
- La Boiteaux, Frank M., assignor of one-half to C. G. Buchanan, Cincinnati, Ohio. Tubing for automobile-radiators and other purposes. No. 1,318,210; Oct. 7; v. 267; p. 105.
- La Bour, Harry E., assignor to Chemical Equipment Company, Chicago, Ill. Pumping system. No. 1,314,875; Sept. 2; v. 266; p. 74.
- La Bour, Harry E., Chicago Heights, Ill. Method of and means for intimate mixing of fluids. No. 1,318,774; Oct. 14; v. 267; p. 273.
- La Bour, Harry E., Chicago Heights, and G. A. Grassby, Jr., Fernwood, assignors to Chemical Equipment Company, Chicago Heights, Ill. Valve. No. 1,302,567; May 6; v. 262; p. 16.
- La Chance, Edward, Aurora, Ill., and J. D. Pennell, East Boston, Mass., assignors to American Warp Drawing Machine Company. Textile-machine. No. 1,317,024; Sept. 23; v. 266; p. 542.
- La Chapelle, Alfred M., Springfield, Mass., and S. Benensohn, Chicago, Ill. Carbureter. No. 1,290,246; Jan. 7; v. 258; p. 56.
- La Chapelle, Frederick W., Duluth, Minn. Tire-removing device. No. 1,323,871; Dec. 2; v. 269; p. 122.
- La Clair, William, Oakville, Wash. Saw-filing gage. No. 1,308,247; July 1; v. 264; p. 44.
- La Cour, Jens L., assignor to Norsk Hydro-elektrisk Kvaestofaktieselskab, Christiania, Norway. Production of reactions in gases in closed systems. No. 1,290,584; Jan. 7; v. 258; p. 137.
- La Cour, Jens L., assignor to Norsk Hydro-elektrisk Kvaestofaktieselskab, Christiania, Norway. Electric-arc furnace. No. 1,296,194; Mar. 4; v. 260; p. 87.
- La Crosse Plow Company. (See Cameron, William W., assignor.)
- La Crosse Plow Company. (See Davis and Cameron, assignors.)
- La Crosse Rubber Mills Company. (See Kramer and Smerling, assignors.)
- La Crosse Tractor Co. (See Easton, Lucian F., assignor.)
- La Crosse Tractor Co. (See Melcher, Lee W., assignor.)
- La Fontaine, George A., La Habra, assignor of one-half to O. Steinen, Los Angeles, Calif. Clipper-shears. No. 1,303,072; May 6; v. 262; p. 112.
- La Fortune, Albert H., Hilton, N. J., assignor to General Optical Company, Inc. Edge-grinding machine. No. 1,324,454; Dec. 9; v. 269; p. 278.
- La France, David J., and W. P. De Witt, Somerville, assignors to De Witt La France Co., Cambridge, Mass. Fountain-pen. No. 1,300,849; Apr. 15; v. 261; p. 549.
- La France, Richard, assignor to The Toledo Glass Company, Toledo, Ohio. Leer-charging device. No. 1,296,818; Mar. 11; v. 260; p. 261.
- La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Glass-forming machine. No. 1,299,482; Apr. 8; v. 261; p. 225.
- La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Apparatus for handling glassware. No. 1,310,194; July 15; v. 264; p. 468.
- La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Glass-forming machine. No. 1,319,098; Oct. 21; v. 267; p. 360.
- La Grant, John H. (See Bailey and La Grant.)
- La Grieco, Frederick C. (See Simpson and La Grieco.)
- La Joie, Herbert J., Orange, N. J., assignor to Autopiano Company. Expression-controlling device. No. 1,296,819; Mar. 11; v. 260; p. 261.
- La Joie, Herbert J., Orange, N. J., assignor to Autopiano Company. Roll-controlling mechanism for musical instruments. No. 1,300,978; Apr. 15; v. 261; p. 577.
- La Joie, Herbert J., Orange, N. J., assignor to Autopiano Company. Player-piano for producing solo effects. No. 1,309,762; July 15; v. 264; p. 390.
- La Mar, Frank C., and P. J. Hopkins, Pittsburgh, Pa. Renewable electric fuse. No. 1,318,886; Oct. 14; v. 267; p. 295.
- La Mar, Frank C., and P. J. Hopkins, Pittsburgh, Pa. Refillable electric fuse. No. 1,318,887; Oct. 14; v. 267; p. 295.
- La Marche, Edward B., and A. Appel, Mariette, Mich. Draft attachment for automobiles. No. 1,303,920; May 20; v. 262; p. 334.
- La May, Arthur C. (See Tiefel and La May.)
- La May, Arthur C., et al. (See Todd, Tiefel, and La May.)
- La Montagne, Patrick P., Bourbonnais, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine and needle therefor. No. 1,321,646; Nov. 11; v. 268; p. 306.
- La Montagne, Patrick P., Bourbonnais, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine. No. 1,321,647; Nov. 11; v. 268; p. 307.



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- La Montagne, Patrick P., Bourbonnais, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine. No. 1,325,158; Dec. 16; v. 269; p. 471.
- La Montagne, Patrick P., Bourbonnais, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine. No. 1,325,644; Dec. 23; v. 269; p. 579.
- La Montaine, S. J., and C. A. Money, Chicago, Ill. Take-up mechanism. No. 1,298,969; Apr. 1; v. 261; p. 82.
- La Moreaux, Edward P., Ponderay, Idaho. Extension finger-piece for type-writers. No. 1,319,228; Oct. 21; v. 267; p. 386.
- La Plant, Peter, Duluth, Minn. Horseshoe-calk. No. 1,310,996; July 22; v. 264; p. 647.
- La Plante, Clifford C., Springfield, Mass. Auto-top. No. 1,294,469; Feb. 18; v. 259; p. 420.
- La Porte, Norbert M., Baltimore, Md. Circulating system. No. 1,310,025; July 15; v. 264; p. 437.
- La Porte, Norbert M., Baltimore, Md., assignor, by mesne assignments, to The Motor Cooling Systems Company. Circulator. No. 1,292,489; Jan. 28; v. 258; p. 669.
- La Riviere, Eva, Ste. Lina, Alberta, Canada. Curtain-fixture. No. 1,316,247; Sept. 16; v. 266; p. 348.
- La Rocco, Michael, assignor of one-half to J. F. Bowan, Chicago, Ill. Terminal-protector. No. 1,315,135; Sept. 2; v. 266; p. 120.
- La Rue, William D., Camden, N. J., assignor to Victor Talking Machine Company. Sound-reproducing machine. No. 1,291,562; Jan. 14; v. 258; p. 392.
- La Selva, Rocco, New York, N. Y. Rear signal for automobiles. No. 1,308,873; July 8; v. 264; p. 187.
- La Societe A. Lecompte et Cie. (See Gourju, Alexandre, assignor.)
- La Societe d'Appareillage Medical. (See Bidou, G. A. M. V., assignor.)
- La Societe d'Eclairage Chauffage et Force Motrice. (See Leroux, Pierre, assignor.)
- La Societe de Construction des Batignolles. (See Holtzhauser, Charles, assignor.)
- La Societe Francaise des Glycerines. (See Boutel, Robert, assignor.)
- La Societe pour l'Exploitation des Brevets Bellem & Bregeras. (See Bellem, Louis H. L., assignor.)
- La Valley, Lloyd, Schofield Barracks, Hawaii. Faucet. No. 1,301,577; Apr. 22; v. 261; p. 732.
- La Vanway, Merton J. (See Votaw and La Vanway.)
- La Voie, Emery G., Greenwich, Conn. Aeroplane control. No. 1,303,568; May 13; v. 262; p. 232.
- Laberge, Ephraim, Montreal, Quebec, Canada. Internal-combustion motor. No. 1,294,487; Feb. 18; v. 259; p. 419.
- Labodish, Charles S., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,317,796; Oct. 7; v. 267; p. 26.
- Labombarde, Elie W. (See Sidebotham, Melvin H., assignor.)
- Labombarde, Harold S., Nashua, N. H. Electric counter for box-making machines. No. 1,298,518; Mar. 25; v. 260; p. 684.
- Laborda, Richard. (See Spreckles and Laborda.)
- Laborde, Anne, New York, N. Y. Combined hot-water bottle and douche-bag. No. 1,308,427; July 1; v. 264; p. 76.
- Labounty, Abner. (See Haltman, Adolf, assignor.)
- Labrely, Emile, Paris, France, assignor to Pathe Freres Phonograph Company, New York, N. Y. Speed-starting device for motors. No. 1,300,624; Apr. 15; v. 261; p. 501.
- Labus, Otto A., Grand Rapids, Wis. Globe-valve. No. 1,301,278; Apr. 22; v. 261; p. 676.
- Lacaire, Henry J., Spencer, Mass. Artificial hand. No. 1,322,027; Nov. 18; v. 268; p. 428.
- Lacerda, Harry A., Schenectady, N. Y., assignor to R. B. G. Haughton, Pittsburgh, Pa. Stay-bolt for boilers. No. 1,304,889; May 27; v. 262; p. 555.
- Lacerda, Harry A., Schenectady, N. Y., assignor to R. B. G. Haughton, Pittsburgh, Pa. Stay-bolt for boilers. No. 1,304,890; May 27; v. 262; p. 555.
- Lacey, Fred, Lowell, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,308,246; July 1; v. 264; p. 44.
- Lachman, Laurence S., New York, N. Y. Uniting metal parts. No. 1,292,812; Jan. 28; v. 258; p. 747.
- Lachman, Laurence S., New York, N. Y. Article of manufacture of metal and producing the same. No. 1,314,816; Sept. 2; v. 266; p. 64.
- Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Metallic structure. No. 1,300,740; Apr. 15; v. 261; p. 526.
- Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Spot-welding electrode. No. 1,303,919; May 20; v. 262; p. 334.
- Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Metal structure. No. 1,308,083; July 1; v. 264; p. 14.
- Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Metal sash or frame. No. 1,308,428; July 1; v. 264; p. 76.
- Lachman, Laurence S., assignor to Structural Pressed Steel Wheel Company, Inc., New York, N. Y. Wheel. No. 1,317,198; Sept. 30; v. 266; p. 611.
- Lachman, Maurice, New York, N. Y. Rolled-steel grating. No. 1,325,792; Dec. 23; v. 269; p. 606.
- Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Joining metal plates. No. 1,294,679; Feb. 18; v. 259; p. 464.
- Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Uniting plates. No. 1,294,680; Feb. 18; v. 259; p. 464.
- Lachman, Maurice, assignor to Structural Pressed Steel Wheel Company, Inc., New York, N. Y. Metal wheel. No. 1,308,849; July 8; v. 264; p. 182.
- Lachman, Maurice, assignor to Structural Pressed Steel Wheel Company, Inc., New York, N. Y. Making wire wheels. No. 1,324,055; Dec. 9; v. 269; p. 201.
- Lachman, Maurice, assignor to Structural Pressed Steel Wheel Company, Inc., New York, N. Y. Demountable vehicle-wheel. No. 1,324,970; Dec. 16; v. 269; p. 436.
- Lachmann, Robert A., assignor to Raymond Brothers Impact Pulverizer Company, Chicago, Ill. Pulverizing-mill roller and supporting structure for same. No. 1,321,379; Nov. 11; v. 268; p. 257.
- Lack, Fred S., Paducah, Ky. Vehicle-wheel. No. 1,313,489; Aug. 19; v. 265; p. 359.
- Lack, Israel. (See Kaplan and Lack.)
- Lackawanna Steel Company. (See Boardman, Charles S., assignor.)
- Lackawanna Steel Company. (See Mathias, Thomas H., assignor.)
- Lackey, James T., Dallas, Iowa. Turbine-pump for irrigation. No. 1,299,840; Apr. 8; v. 261; p. 308.
- Lacoste, Eduardo G., Buenos Aires, Argentina. Orthopedic chair. No. 1,325,252; Dec. 16; v. 269; p. 489.
- Lacourse, Joseph A., Muskegon Heights, Mich. Core-wire-bending machine. No. 1,299,583; Apr. 8; v. 261; p. 248.
- Lacroix, Paul A. M. and J. Richard, Paris, France. Photometer. No. 1,315,972; Sept. 16; v. 266; p. 297.
- Lacy, Burritt S., Searles, N. J., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Photochemical chlorination. No. 1,308,760; July 8; v. 264; p. 166.
- Lacy, James L. (See Nelson, John T., assignor.)
- Lacy, Lucius G. (See MacLean, Frederick F., assignor.)
- Ladanyi, Samuel. (See Reisfeld and Reichman, assignors.)
- Ladd, George T., Pittsburgh, Pa. Boiler. No. 1,326,203; Dec. 30; v. 269; p. 719.
- Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Charging apparatus for centrifugal casting-machines. No. 1,307,823; June 24; v. 263; p. 577.
- Ladd, Louis E., Providence, R. I. Cuff-button. No. 1,297,366; Mar. 18; v. 260; p. 411.
- Ladd, Osmond Y., Danbury, Conn. Eyeglass-mounting. No. 1,309,072; July 8; v. 264; p. 225.
- Ladd, Osmond Y., Danbury, Conn. Lens-holder for eyeglass-mountings. No. 1,322,798; Nov. 25; v. 268; p. 625.
- Ladd, William M., Lake City, Iowa. Detachable cuff. No. 1,326,514; Dec. 30; v. 269; p. 778.
- Ladoff, Isador, and R. W. E. Moore, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Arc-lamp electrode. No. 1,317,199; Sept. 30; v. 266; p. 612.
- Laessker, Jean, assignor to A. Saurer, Arbon, Switzerland. Device for testing the teeth of bevel gear-wheels. No. 1,296,195; Mar. 4; v. 260; p. 87.
- Lafayette Rubber Company. (See Wohlgemuth and Lilly, assignors.)
- Laffier, Nelson A. (See Laffier, Ollie L. and N. A.)
- Laffier, Ollie L., and N. A. Argyle, Minn. Operating mechanism for washing-machines. No. 1,297,576; Mar. 18; v. 260; p. 456.
- Lafferty, Herbert D. (See Shearer, Joe E., assignor.)
- Lafferty, Robert C. (See Ryan, Walter S., assignor.)
- Lafferty, Robert C., New York, N. Y. Cooking and serving device for fruits. No. 1,313,947; Aug. 26; v. 265; p. 479.
- Lafferty, Robert C., New York, N. Y., assignor to Window-Crib Company, Inc. Infant's crib. No. 1,290,585; Jan. 7; v. 258; p. 137.
- Laffitte, Basile, Merida, Mexico. Fountain-pen. No. 1,319,593; Oct. 21; v. 267; p. 455.
- Lafitte, Charles J., et al. (See Menge, Anton C., assignor.)
- Laforest, Aubin A., Washington, D. C. Coin-deliverer. No. 1,299,196; Apr. 1; v. 261; p. 132.
- Lage, Henry A., Merced, Cal. Land-leveler. No. 1,294,812; Feb. 18; v. 259; p. 495.
- Lage, Henry A., Merced, Cal. Earth scraper and leveler. No. 1,296,295; Mar. 4; v. 260; p. 109.
- Lagrange, Federico A. (See Saccaggio and Lagrange.)
- Lagus, Robert, Åbo, Finland. Tree-felling machine. No. 1,302,932; May 6; v. 262; p. 86.
- Lahey, Frank T. (See Lenke, Edward, assignor.)
- Laible, Frank J., assignor to The F. A. Neider Company, Augusta, Ky. Vehicle-curtain light. No. 1,313,999; Aug. 26; v. 265; p. 490.
- Laidley, William E., assignor to C. F. Mead, Cleveland, Ohio. Electric signal system. No. 1,314,339; Aug. 26; v. 265; p. 555.
- Laing, Charles E., Portland, Oreg. Mixing-cup for centrifugal mixers. No. 1,322,492; Nov. 18; v. 268; p. 517.



- Laing, Clayton, Chicago, Ill. Apparatus for casting high-fusing metals. No. 1,307,299; June 17; v. 263; p. 449.
- Laing, James A., assignor of one-third to F. R. Pengelly and one-third to C. C. Ratliff, Spokane, Wash. Spark-plug. No. 1,316,904; Sept. 23; v. 266; p. 520.
- Laing, John, Winnipeg, Manitoba, Canada. Clothes-washing machine. No. 1,291,936; Jan. 21; v. 258; p. 515.
- Laing, John J., and C. W. Boling, Madison, Wis. Non-conducting and waterproof composition and manufacturing same. No. 1,305,125; May 27; v. 262; p. 600.
- Laird, Lawrence H., Yreka, Calif. Mortise-cutting tool. No. 1,297,577; Mar. 18; v. 260; p. 456.
- Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Purifying liquids. No. 1,320,396; Nov. 4; v. 268; p. 8.
- Laisne, Léon, Douai, France. Elastic suspension for vehicles. No. 1,316,369; Sept. 16; v. 266; p. 371.
- Laist, Frederick, F. F. Frick, and R. S. Oliver, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Preparing alumina. No. 1,300,417; Apr. 15; v. 261; p. 458.
- Laist, Frederick, F. F. Frick, and R. S. Oliver, assignors to Anaconda Copper Mining Company, Anaconda, Mont. Preparing iron-free alum. No. 1,300,418; Apr. 15; v. 261; p. 458.
- Laisure, Arthur B. and C. E. Fairbury, Nebr. Buckle. No. 1,299,841; Apr. 8; v. 261; p. 308.
- Laisure, Clarence E. (See Laisure, Arthur B. and C. E.)
- Laisy, Oscar J., Cleveland, Ohio. Airship. No. 1,311,237; July 29; v. 264; p. 724.
- Lajara, Armando F., San Juan, Porto Rico. Game. No. 1,323,872; Dec. 2; v. 269; p. 122.
- Lake, Christopher J., Bridgeport, Conn. Airplane. No. 1,307,133; June 17; v. 263; p. 419.
- Lake, Christopher J., Bridgeport, Conn. Airplane. No. 1,307,134; June 17; v. 263; p. 419.
- Lake, Christopher J., Bridgeport, Conn. Hydroplane, also applicable to hydroaeroplanes. No. 1,307,135; June 17; v. 263; p. 419.
- Lake, Clair D., Binghamton, N. Y. Tabulating-machine. No. 1,307,740; June 24; v. 263; p. 562.
- Lake, Ellsworth L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Paraffining-machine. No. 1,321,925; Nov. 18; v. 268; p. 410.
- Lake, Simon, Milford, assignor to The Lake Torpedo Boat Company of Maine, Bridgeport, Conn. Submarine boat. No. 1,308,738; July 1; v. 264; p. 134.
- Lake Torpedo Boat Company, The. (See Lake, Simon, assignor.)
- Lakeside Hospital. (See Warner, Andrew R., assignor.)
- Lakewood Engineering Company, The. (See Carr, Edward G., assignor.)
- Lakin, William T., Long, Md. Sound-box mounting. No. 1,301,458; Apr. 22; v. 261; p. 710.
- Lakin, Winfield S., Brooklyn, N. Y. Extension-body for vehicles. No. 1,309,251; July 8; v. 264; p. 257.
- Lal Datta, Rasik, Calcutta, India. Recovery of sulfur. No. 1,313,370; Aug. 19; v. 265; p. 337.
- Lalliss, Charles J. (See Larson and Lalliss.)
- Lallonde, Moses, assignor to Springfield Experimental and Manufacturing Company, Springfield, Mass. Flying toy. No. 1,326,457; Dec. 30; v. 269; p. 767.
- Lalor, Thomas F., Oakland, Calif. Carpenter's square. No. 1,325,097; Dec. 16; v. 269; p. 460.
- Lamar, Alexis L., assignor of six thirty-seconds to J. R. Hinkle, seven thirty-seconds to O. L. Stamm, two thirty-seconds to G. H. Stuessi, one thirty-second to H. Degen, Sr., four thirty-seconds to J. M. Bournonville, eight thirty-seconds to S. J. Pole, Pittsburg, Kans., one-sixteenth to J. Jepsen and P. Fischer, and one-sixteenth to P. T. Ellis. Kerosene-vaporizer for internal-combustion engines. No. 1,296,972; Mar. 11; v. 260; p. 297.
- Lamar, William P., Washington, D. C. Type-writing machine. No. 1,302,181; Apr. 29; v. 261; p. 878.
- Lamar, William P., Atlanta, Ga. Passenger and freight transfer system. No. 1,313,091; Aug. 12; v. 265; p. 268.
- Lamb, Arthur B., U. S. Army, and C. R. Hoover, Middletown, Conn. Absorbent. No. 1,321,061; Nov. 4; v. 268; p. 133.
- Lamb, Arthur B., U. S. Army, and C. R. Hoover, Middletown, Conn. Gas-detector. No. 1,321,062; Nov. 4; v. 268; p. 133.
- Lamb, Arthur B., and A. T. Larson, U. S. Army. Method and apparatus for testing gases. No. 1,321,063; Nov. 4; v. 268; p. 133.
- Lamb, Arthur B., and A. T. Larson, U. S. Army. Method and apparatus for testing gases. No. 1,321,064; Nov. 4; v. 268; p. 133.
- Lamb, Charles C., assignor of one-half to W. M. McEwen, Chicago, Ill. Locking, signaling, and recording construction. No. 1,302,384; Apr. 29; v. 261; p. 917.
- Lamb, Chester C., assignor to Whitin Machine Works, Whitinsville, Mass. Traveling-flat carding-machine. No. 1,297,367; Mar. 18; v. 260; p. 412.
- Lamb, Claude T., Terre Haute, Ind. Demountable-rim-expanding tool. No. 1,300,741; Apr. 15; v. 261; p. 526.
- Lamb, Claude T., Terre Haute, Ind. Rail-brace. No. 1,323,397; Dec. 2; v. 269; p. 33.
- Lamb, David C., Chicago, Ill. Trouble-hunter. No. 1,319,012; Oct. 14; v. 267; p. 319.
- Lamb, George L., Nappanee, Ind. Cleaning device. No. 1,305,470; June 3; v. 263; p. 45.
- Lamb, Homer M., West Frankfort, Ill. Cable-socket. No. 1,297,187; Mar. 11; v. 260; p. 344.
- Lamb, James G., Chattanooga, Tenn. Draft-producer for stoves. No. 1,297,871; Mar. 18; v. 260; p. 519.
- Lamb, James J. (See Wright, Teeples, and Lamb.)
- Lamb, John C., assignor of one-half to G. R. Fishburne, Charleston, S. C. Wheel-bearing. No. 1,324,911; Dec. 16; v. 269; p. 425.
- Lamb, John J., Detroit, Mich. Timer for internal-combustion engines. No. 1,310,485; July 22; v. 264; p. 552.
- Lamberson, George E., assignor of fifty-one per cent. to G. E. Lamberson, twenty-four per cent. to M. C. Pardee, twenty per cent. to D. M. Gildersleeve, and five per cent. to H. F. Huty, Brooklyn, N. Y. Aircraft-projectile. No. 1,309,530; July 8; v. 264; p. 309.
- Lambert, Albert L., assignor to Hale & Kilburn Corporation, Philadelphia, Pa. Hinged seat-cushion. No. 1,312,915; Aug. 12; v. 265; p. 233.
- Lambert, Albert L., Narberth, assignor to Hale & Kilburn Corporation, Philadelphia, Pa. Pressed-metal wheel. No. 1,323,776; Dec. 2; v. 269; p. 104.
- Lambert, Charles R., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Protecting-base for fluid-holding tanks. No. 1,298,968; Apr. 1; v. 261; p. 81.
- Lambert, Charles R., Detroit, assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Dust-proof cap for liquid-tank fillers. No. 1,320,559; Nov. 4; v. 268; p. 38.
- Lambert, David, Brooklyn, N. Y. Gas measuring and indicating instrument. No. 1,303,073; May 6; v. 262; p. 113.
- Lambert, David, assignor to The Lambert Machine & Engineering Company, Cleveland, Ohio. Machine-tool. No. 1,316,961; Sept. 23; v. 266; p. 530.
- Lambert, Ernest A., Hadleigh, and S. G. Wenman-Adie, Northiam, England. Internal-combustion engine. No. 1,323,873; Dec. 2; v. 269; p. 122.
- Lambert, Ernest E., Attalla, Ala. Metal and rubber shoe-sole. No. 1,305,812; June 3; v. 263; p. 110.
- Lambert, Frank B., Chicago, assignor, by mesne assignments, to C. A. Brown, Hinsdale, Ill. Burning brick. No. 1,311,978; Aug. 5; v. 265; p. 24.
- Lambert, George A., Anderson, Ind. Stirring-cooker. No. 1,303,333; May 13; v. 262; p. 189.
- Lambert, George C., St. Paul, Minn. Traction-ring for pneumatic and other cushion tired wheels. No. 1,323,193; Nov. 25; v. 268; p. 700.
- Lambert, George H., Asheville, N. C. Machine for washing golf-balls and other articles. No. 1,313,703; Aug. 19; v. 265; p. 399.
- Lambert, Henry M., assignor to Lambert Tire and Rubber Company, Portland, Oreg. Tire-tread. No. 1,309,440; July 8; v. 264; p. 293.
- Lambert, John W., Anderson, Ind. Tractor-tread. No. 1,290,586; Jan. 7; v. 258; p. 138.
- Lambert, John W., Anderson, Ind. Chain tread for tractors. No. 1,300,282; Apr. 15; v. 261; p. 429.
- Lambert, John W., Anderson, Ind. Chain-tread for tractors. No. 1,318,157; Oct. 7; v. 267; p. 95.
- Lambert Machine & Engineering Company, The. (See Lambert, David, assignor.)
- Lambert, Myles B. (See Starker and Lambert.)
- Lambert, Myles B., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric-machine frame. No. 1,326,351; Dec. 30; v. 269; p. 746.
- Lambert Tire and Rubber Company. (See Lambert, Henry M., assignor.)
- Lambert, William H., Chelsea, Mass. Footwear. No. 1,303,565; May 13; v. 262; p. 231.
- Lamberti, John. (See Morreale and Lamberti.)
- Lamblin, Alexandre, Paris, France. Radiator for use in internal-combustion engines. No. 1,317,200; Sept. 30; v. 266; p. 612.
- Lamke, Fred J. (See Meckley and Lamke.)
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Speed control for induction-motors. No. 1,295,906; Mar. 4; v. 260; p. 19.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,300,742; Apr. 15; v. 261; p. 526.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switchboard apparatus. No. 1,305,126; May 27; v. 262; p. 600.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,316,798; Sept. 23; v. 266; p. 501.
- Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Speed-controlling system for induction-motors. No. 1,318,775; Oct. 14; v. 267; p. 273.
- Lämmerhirt, Julius R. H. A. Hoerde, Germany. Briquetting finely-pulverized iron ore. No. 1,315,315; Sept. 9; v. 266; p. 164.



## Alphabetical list of patentees—Continued.

- Lammert, Ferdinand E., and L. Hartman, assignors to Lammert and Mann Company, Chicago, Ill. Traction system for package-trucks. No. 1,294,813; Feb. 18; v. 259; p. 495.
- Lammert and Mann Company. (See Lammert and Hartman, assignors.)
- Lamneck Company, The. (See Holub, Charles J., assignor.)
- Lamon, John, et al. (See Knoblock, William, assignor.)
- Lamon, Joseph, Le Roy, Minn. Draft apparatus. No. 1,315,560; Sept. 9; v. 266; p. 208.
- Lamont, Archibald G., Clarksburg, W. Va. Flying-machine. No. 1,305,555; June 3; v. 263; p. 62.
- Lamont, Elizabeth F., Beacon, N. Y. Mattress for invalids. No. 1,295,770; Feb. 25; v. 259; p. 738.
- Lamont, James, Flat River, Mo. Order-carrier. No. 1,314,965; Sept. 2; v. 266; p. 90.
- Lamont, William C., Oneonta, N. Y. Towing device. No. 1,291,029; Jan. 14; v. 258; p. 268.
- Lampi, Emil, Ely, Minn. Automatic gate. No. 1,320,243; Oct. 28; v. 267; p. 600.
- Lampert, Henry H., Chicago, Ill. Bar support and spacer for concrete reinforcements. No. 1,296,296; Mar. 4; v. 260; p. 109.
- Lampert, Henry H., Chicago, Ill. Shoring device. No. 1,298,970; Apr. 1; v. 261; p. 82.
- Lampert, Henry H., Chicago, Ill. Column-clamp. No. 1,308,084; July 1; v. 264; p. 14.
- Lamplough, Leslie E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Braiding-machine. No. 1,295,178; Feb. 25; v. 259; p. 601.
- Lamprecht, Emil, Philadelphia, Pa. Reed and reed-plate construction for mouth-organs. No. 1,319,960; Oct. 28; v. 267; p. 547.
- Lampus, Charles W. (See Primba, Maxilliam E., assignor.)
- Lamson Company, The. (See Amsdon, George A., assignor.)
- Lamson Company, The. (See Hidden, Charles P., assignor.)
- Lamson Company, The. (See Jennings, Chester S., assignor.)
- Lamson Company, The. (See Marcy, Willard A., assignor.)
- Lamson Company, The. (See Pearsall, Albert W., assignor.)
- Lanaux, Alfred A., New Orleans, La. Liquid-measuring device. No. 1,303,820; May 13; v. 262; p. 278.
- Lancaster, Green C., Parma, Mo. Chair attachment for tables. No. 1,303,921; May 20; v. 262; p. 335.
- Lancaster, Martin L., Birmingham, England. Packeting-wrapper. No. 1,316,728; Sept. 23; v. 266; p. 488.
- Lance, Oliver, San Diego, Calif. Concrete-road-laying machine. No. 1,303,566; May 13; v. 262; p. 231.
- Lanchester, Frederick W., London, England. Construction of tents for field-hospitals, depots, and like purposes. No. 1,302,182; Apr. 29; v. 261; p. 878.
- Lanchester, Frederick W., London, England. Aeroplane and apparatus for launching and receiving same. No. 1,311,700; July 29; v. 264; p. 811.
- Lanchester, Frederick W., London, England, assignor to Piston Ring Company, Muskegon Heights, Mich. Manufacture of piston-packings. (Reissue.) No. 14,644; May 6; v. 262; p. 143.
- Lanchick, Peter S., Victoria, British Columbia, Canada. Domestic air-heater. No. 1,300,625; Apr. 15; v. 261; p. 501.
- Land, Charles H., Jr., assignor of two-thirds to B. N. Cutting, Detroit, Mich. Trailer. No. 1,294,488; Feb. 18; v. 259; p. 420.
- Land, Charles H., Jr., assignor of six-tenths to B. N. Cutting, Detroit, Mich. Automatic supporting-jack. No. 1,303,922; May 20; v. 262; p. 335.
- Land, William A., assignor of one-third to M. H. Taylor, Hewins, Kans. Cattle-guard. No. 1,305,907; June 3; v. 263; p. 128.
- Landau, Alfred, New York, N. Y. Reserve dry cell. No. 1,317,139; Sept. 23; v. 266; p. 564.
- Landau, Maxwell W. (See Adams and Landau.)
- Landaw, Clarence D., Portland, Oreg. Piston-ring remover. No. 1,324,557; Dec. 9; v. 269; p. 298.
- Landby, Andrew. (See Landby, Martin, J., and A.)
- Landby, John. (See Landby, Martin, J., and A.)
- Landby, Martin, J., and A., Swift, Minn. Autosleigh. No. 1,296,531; Mar. 4; v. 260; p. 160.
- Lander, Frank E., Blackheath, London, assignor to Vickers Limited, Westminster, England. Means for parting the moorings of submarine mines or mine-sweeping ropes or cables. No. 1,312,405; Aug. 5; v. 265; p. 103.
- Lander, Frank E., Lewisham, London, assignor to Vickers Limited, Westminster, London, England. Safety device. No. 1,313,546; Aug. 19; v. 265; p. 370.
- Landers, Frary & Clark. (See Smart, Joseph F., assignor.)
- Landers, Frary & Clark. (See Smith, Charles F., assignor.)
- Landgraf, Carl J., Providence, R. I. Spare-tire holder for vehicles. No. 1,292,813; Jan. 28; v. 258; p. 747.
- Landgraf, Frederick K., assignor to Flannery Bolt Company, Pittsburgh, Pa. Machine for drilling holes in bolts. No. 1,317,711; Oct. 7; v. 267; p. 10.
- Landgreen, Lowell V., Wilsonville, Nebr. Spring-wheel for vehicles. No. 1,326,458; Dec. 30; v. 269; p. 767.
- Landgren, Alf and M. B. Ewers, Highland Park, Mich. Ignition-lock for motor-vehicles. No. 1,325,521; Dec. 16; v. 269; p. 556.
- Landis, Abb L., Nashville, and W. D. Roy, Bellevue, Tenn.; said Roy assignor to said Landis. Game of skill. No. 1,303,808; May 13; v. 262; p. 276.
- Landis, Abraham B., Enfield, Pa. Change-speed transmission-gearing. No. 1,296,532; Mar. 4; v. 260; p. 160.
- Landis, Abraham B., Enfield, Pa. Change-speed transmission. No. 1,296,533; Mar. 4; v. 260; p. 160.
- Landis, Abraham B., Enfield, Pa. Change-speed transmission-gearing. No. 1,296,534; Mar. 4; v. 260; p. 160.
- Landis, Frank F., Waynesboro, Pa. Secondary electric clock. No. 1,313,304; Aug. 19; v. 265; p. 325.
- Landis, John O., Philadelphia, Pa. Manicure implement. No. 1,324,677; Dec. 9; v. 269; p. 320.
- Landis Machine Company. (See Miller, Daniel J., assignor.)
- Landis, Raymond F., Reading, Pa. Rod-shifting device. No. 1,298,226; Mar. 25; v. 260; p. 620.
- Landis, Raymond F., Reading, Pa. Valve controlling and releasing device. No. 1,298,227; Mar. 25; v. 260; p. 621.
- Landis, Roy G., Neligh, Nebr. Vehicle-body. No. 1,322,122; Nov. 18; v. 268; p. 446.
- Landis Tool Company. (See Conradson, Conrad M., assignor.)
- Landis, Walter S., assignor to F. S. Washburn, New York, N. Y. Producing nitric acid. No. 1,292,814; Jan. 28; v. 258; p. 747.
- Landis, Walter S., assignor to American Cyanamid Company, New York, N. Y. Production and purification of ammonia. No. 1,296,820; Mar. 11; v. 260; p. 262.
- Landis, Walter S., assignor to American Cyanamid Company, New York, N. Y. Producing ammonium nitrate. No. 1,315,674; Sept. 9; v. 266; p. 227.
- Landis, William H., Mount Sidney, Va. Dirigible headlight. No. 1,294,844; Feb. 11; v. 259; p. 356.
- Landon, Frederick M., Tacoma, Wash. Mower. No. 1,308,909; July 8; v. 264; p. 193.
- Landrigan, John M. (See Nelson, Landrigan, and Zesbaugh.)
- Landrum, M. L. (See Parker, Luke W., assignor.)
- Landry, Gertrude I., Pawtucket, and G. S. Kelley, Providence, R. I. Hair-retaining device. No. 1,306,068; June 10; v. 263; p. 188.
- Landry, Gertrude I., Pawtucket, and G. S. Kelley, Cranston, R. I.; said Kelley assignor to said Landry. Hair-retainer. No. 1,310,914; July 22; v. 264; p. 631.
- Landry, Joseph H., Appleton, Wis. Spring-wheel. No. 1,321,218; Nov. 11; v. 268; p. 225.
- Landry, Joseph V., Killona, La. Oil-burner. No. 1,300,626; Apr. 15; v. 261; p. 502.
- Landry, Onesime, New Bedford, assignor to Draper Corporation, Hopedale, Mass. Feeler for looms. No. 1,319,777; Oct. 28; v. 267; p. 513.
- Landry, Wallace J., Baton Rouge, La. Card-holder for garment-hangers. No. 1,321,926; Nov. 18; v. 268; p. 410.
- Landsiedel, Harry, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Recording-machine. No. 1,321,648; Nov. 11; v. 268; p. 307.
- Landstad, Halvor F. (See Pollen and Landstad.)
- Landwehr, Henry A., assignor to American Cement Products Company, Los Angeles, Calif. Mold for reinforced-concrete posts and the like. No. 1,299,739; Apr. 8; v. 261; p. 284.
- Landwehr, Henry A., assignor to American Cement Products Company, Los Angeles, Calif. Forming reinforced-concrete posts or the like. No. 1,299,842; Apr. 8; v. 261; p. 308.
- Lane, Alfred, Rawdon, and T. More, Leeds, England. Milling-lathe. No. 1,301,951; Apr. 29; v. 261; p. 836.
- Lane, Alfred M., assignor to Monarch Metal Weather Strip Company, St. Louis, Mo. Fruit-tray. No. 1,310,800; July 22; v. 264; p. 611.
- Lane Bros. Co. (See Lane, George, assignor.)
- Lane Bryant, Inc. (See Malsin, Albert, assignor.)
- Lane, Charles H. (See Thrift, Homer C., assignor.)
- Lane, Edwin. (See Lichtenstein, Edwin.)
- Lane, Elmer E., South Berwick, Me., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on irregularly-shaped blanks. No. 1,300,627; Apr. 15; v. 261; p. 502.
- Lane, Elmer E., South Berwick, Me., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,300,628; Apr. 15; v. 261; p. 502.
- Lane, Franklin L., assignor to P. B. Yates Machine Company, Beloit, Wis. Gage. No. 1,295,179; Feb. 25; v. 259; p. 602.
- Lane, Franklin L., and F. R. Weaver, assignors to P. B. Yates Machine Company, Beloit, Wis. Cutter-head. No. 1,298,737; Apr. 1; v. 261; p. 28.
- Lane, Fred A., Shelburn, Ind. Rim and securing means therefor. No. 1,292,488; Jan. 28; v. 258; p. 669.



- Lane, George, Fort Lee, N. J. Producing legends in black on motion-picture negatives. No. 1,300,178; Apr. 8; v. 261; p. 380.
- Lane, George, assignor to Lane Bros. Co., Poughkeepsie, N. Y. Lifting-jack. No. 1,320,244; Oct. 28; v. 267; p. 600.
- Lane, George, assignor to Lane Bros. Co., Poughkeepsie, N. Y. Lifting-jack. No. 1,320,245; Oct. 28; v. 267; p. 601.
- Lane, George A., Perris, Calif. Inner tube. No. 1,310,121; July 15; v. 264; p. 455.
- Lane, Helen B. (See Harding, Charles E., assignor.)
- Lane, Henry M., Detroit, Mich. Core-rack. No. 1,298,359; Mar. 25; v. 260; p. 647.
- Lane, Howard, Ashford, England. Apparatus for hydrogenizing oils and fats. No. 1,307,588; June 24; v. 263; p. 535.
- Lane, James A., Los Angeles, Calif. Window adjuster and lock. No. 1,297,479; Mar. 18; v. 260; p. 435.
- Lane, John J., St. Louis, Mo. Valve. No. 1,290,587; Jan. 7; v. 258; p. 138.
- Lane, Philander E., Atlantic City, N. J. Machine for and method of scarfing metal. No. 1,313,901; Aug. 26; v. 265; p. 470.
- Lane, Victor E., Detroit, Mich. Annealing-furnace. No. 1,292,617; Jan. 28; v. 258; p. 702.
- Lane, William, McLean, Ill. Seed-corn rack. No. 1,310,486; July 22; v. 264; p. 552.
- Lane, William E., Wilmington, N. C. Attachment for suspenders. No. 1,306,489; June 10; v. 263; p. 268.
- Lang, Albert B., Maplewood, Mo. Crank-pin-turning machine. No. 1,314,876; Sept. 2; v. 266; p. 74.
- Lang, Carl E., Livengood, Alaska. Internal-combustion turbine. No. 1,294,120; Feb. 11; v. 259; p. 298.
- Lang, Charles R., assignor to G. & J. Weir, Limited, Cathcart, Glasgow, Scotland. Duplex pump. No. 1,301,459; Apr. 22; v. 261; p. 710.
- Lang, Gavin J., Des Moines, Iowa. Shingling-gage. No. 1,291,558; Jan. 14; v. 258; p. 390.
- Lang, George L., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,295,528; Feb. 25; v. 259; p. 682.
- Lang, George W., Litchfield, Nebr. Power attachment. No. 1,314,083; Aug. 26; v. 265; p. 505.
- Lang, Hans, Milwaukee, Wis. Violin-bow-hair fastener. No. 1,307,557; June 24; v. 263; p. 529.
- Lang, Harry. (See Pettet and Lang.)
- Lang, Hubert, Chicago, Ill., assignor to Goss Printing Press Company. Printing-press. No. 1,312,487; Aug. 5; v. 265; p. 119.
- Lang, Johan G. V. (See Greenfield and Lang.)
- Lang, Lincoln A., assignor to The Northern Trust Company, trustee, Chicago, Ill. Valve construction. No. 1,302,385; Apr. 29; v. 261; p. 917.
- Lang, Lincoln A., assignor to The Northern Trust Company, Chicago, Ill. Servo-motor. No. 1,324,558; Dec. 9; v. 269; p. 298.
- Lang, Robert B. (See Loughhead, Oscar L., assignor.)
- Langran, William B., Hawley, Pa., assignor to Koscherak Siphon Bottle Works, Hoboken, N. J. Bottle-stopper. No. 1,324,256; Dec. 9; v. 269; p. 239.
- Langbein, Fred, Newark, N. J. Fly-trap garbage-cover. No. 1,290,760; Jan. 7; v. 258; p. 180.
- Langdale, Stonay L., *et al.* (See Feltz, Charles F., assignor.)
- Langdale, William H., *et al.* (See Feltz, Charles F., assignor.)
- Langdon, Alfred G., Northam, England. Friction-clutch. No. 1,320,246; Oct. 28; v. 267; p. 601.
- Langdon-Davies, Walter, Weybridge, assignor of two-thirds to A. Soames, London, England. Electrically-controlled clutch. No. 1,303,484; May 13; v. 262; p. 216.
- Langdon-Davies, Walter, Weybridge, England. Electrically-controlled clutch. No. 1,305,612; June 3; v. 263; p. 74.
- Langdon, Jesse D., Waterville, Wash. Steam-condenser, air-cleaner, and humidifier for internal-combustion engines. No. 1,301,138; Apr. 22; v. 261; p. 647.
- Langdon, Jesse D., Waterville, Wash. Auxiliary valved-head attachment for internal-combustion motors. No. 1,316,454; Sept. 16; v. 266; p. 387.
- Langdon, Jesse D., Waterville, Wash. Vaporizing-dome. No. 1,322,799; Nov. 25; v. 268; p. 625.
- Langdon, Jesse D. and M. V. B., Waterville, Wash., assignors of one-half to E. Greer, Chicago, Ill. Separable wheel. No. 1,301,716; Apr. 22; v. 261; p. 759.
- Langdon, Marie V. B. (See Langdon, Jesse D. and M. V. B.)
- Langdon, William, Toledo, Ohio. Universal bath-tub trap. No. 1,317,797; Oct. 7; v. 267; p. 26.
- Lange, Charles, West Anaheim, Cal. Steering device for automobiles. No. 1,291,937; Jan. 21; v. 258; p. 516.
- Lange, Henry, Quincy, Ill. Gas-burner for coal-ovens. No. 1,306,917; June 17; v. 263; p. 380.
- Lange, Henry, Quincy, Ill. Combination coal and gas heater. No. 1,315,518; Sept. 9; v. 266; p. 201.
- Lange, Henry, Los Angeles, Cal., assignor, by mesne assignments, to O. L. Moore, Chicago, Ill. Ink-fountain construction. No. 1,291,559; Jan. 14; v. 258; p. 391.
- Lange, Henry, Los Angeles, Calif., assignor, by mesne assignments, to O. L. Moore, Chicago, Ill. Multiweb-printing press. No. 1,305,128; May 27; v. 262; p. 600.
- Lange, Henry, Los Angeles, Calif., assignor, by mesne assignments, to O. L. Moore, Chicago, Ill. Folding mechanism for printing-presses. No. 1,305,129; May 27; v. 262; p. 600.
- Lange, Henry, Los Angeles, Calif., assignor, by mesne assignments, to O. L. Moore, Chicago, Ill. Cam mechanism for numbering-heads. No. 1,320,480; Nov. 4; v. 268; p. 23.
- Lange, John, Chippewa Falls, Wis. Seeder. No. 1,298,738; Apr. 1; v. 261; p. 28.
- Lange, Joseph J., Celina, and A. W. Evers, St. Henry, Ohio. Combined corn snapper, husker, and sifter. No. 1,291,938; Jan. 21; v. 258; p. 516.
- Lange, William L. (See Rettberg and Lange.)
- Langenberg, Willis E., Milwaukee, Wis. Alarm device. No. 1,307,300; June 17; v. 263; p. 449.
- Langer, Carl and O., Clydach, Wales. Refining nickel-copper matte. No. 1,291,030; Jan. 14; v. 258; p. 268.
- Langer, Julius J., New York, N. Y. Soldering-furnace. No. 1,308,957; July 8; v. 264; p. 202.
- Langer, Max, Charlottenburg, near Berlin, assignor to Siemens & Halske, A. G., Siemensstadt, near Berlin, Germany. Telephone system. No. 1,322,247; Nov. 18; v. 268; p. 470.
- Langer, Otto. (See Langer, Carl and O.)
- Langford, Atlas T., Jackson, Tenn. Auto-shade. No. 1,298,739; Apr. 1; v. 261; p. 28.
- Langford, Frank, Bureka, Calif. Treatment of clays and earths. No. 1,308,429; July 1; v. 264; p. 77.
- Langford, George, Joliet, Ill. Method of and means for straightening railway-rails. No. 1,314,877; Sept. 2; v. 266; p. 74.
- Langford, Jeremiah E., Salt Lake City, Utah. Rail tie and clamp. No. 1,320,873; Nov. 4; v. 268; p. 97.
- Langford, Joseph O., El Paso, Tex. Lacing-eyelet. No. 1,299,584; Apr. 8; v. 261; p. 248.
- Langford, Walter R., Coalinga, Calif. Pipe-wrench. No. 1,310,995; July 22; v. 264; p. 646.
- Langguth, Joseph O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,313,092; Aug. 12; v. 265; p. 268.
- Langhaaer, Louis, Cincinnati, Ohio. Antifriction-bearing. No. 1,310,756; July 22; v. 264; p. 603.
- Langham, Ludwig, Seattle, Wash. Low-pressure alarm for pneumatic tires. No. 1,291,647; Jan. 14; v. 258; p. 413.
- Langhardt, Victor E., Helm, Calif. Overshoe-retainer. No. 1,302,677; May 6; v. 262; p. 37.
- Langley, Arthur R., Oakland, Calif. Trolley-wire finding and replacing device. No. 1,312,697; Aug. 12; v. 265; p. 190.
- Langley, Charles E., Keokuk, Iowa. Clothesline-pole. No. 1,321,761; Nov. 11; v. 268; p. 329.
- Langley, Cortland J. (See Wood, Clarence P., assignor.)
- Langley, Cortland J., and C. P. Wood, Philadelphia, Pa. Sterilizing-carrier for clinical thermometers. No. 1,305,471; June 3; v. 263; p. 46.
- Langley, Jesse R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,319,013; Oct. 14; v. 267; p. 320.
- Langley, Sam G., Maplewood, assignor to New Jersey Patent Company, West Orange, N. J. Switch. No. 1,323,194; Nov. 25; v. 268; p. 701.
- Langman, Edward J., Buffalo, N. Y. Rotary engine. No. 1,315,847; Sept. 9; v. 266; p. 259.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. System for amplifying variable currents. No. 1,297,188; Mar. 11; v. 260; p. 344.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Method of and means for controlling electrical energy. No. 1,301,279; Apr. 22; v. 261; p. 676.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. No. 1,313,093; Aug. 12; v. 265; p. 268.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. System for amplifying variable currents. No. 1,313,094; Aug. 12; v. 265; p. 268.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Vacuum-pump. No. 1,320,874; Nov. 4; v. 268; p. 97.
- Langner, Lawrence, New York, N. Y., assignor to The Dayton Engineering Laboratories Company. Magneto. No. 1,314,197; Aug. 26; v. 265; p. 527.
- Langnes, Bernhart M., Kenosha, Wis. Convertible planter. No. 1,300,419; Apr. 15; v. 261; p. 458.
- Langston, Burney. (See Williams, William M., assignor.)
- Langston-Fowler Company. (See Lattig, Charles I., assignor.)
- Langton, George H. (See Small and Langton.)
- Langton, Morgan J., Oswego, N. Y. Valve-lock. No. 1,302,933; May 6; v. 262; p. 86.
- Languepin, Emile, Paris, France. Electrode for electric arc welding. No. 1,302,386; Apr. 29; v. 261; p. 918.
- Languepin, Emile, Paris, France. Electrode for electric arc welding. No. 1,314,273; Aug. 26; v. 265; p. 542.



*Alphabetical list of patentees—Continued.*

- Lanham, Clarence P., Chicago, Ill. Mechanical starter for explosion-engines. No. 1,315,519; Sept. 9; v. 266; p. 201.
- Lanham, Colonel W., Chicago, Ill. Traction-wheel connection for power-driven vehicles. No. 1,302,183; Apr. 29; v. 261; p. 879.
- Lanham, Colonel W., Chicago, Ill. Corn-planter. No. 1,304,992; May 27; v. 262; p. 574.
- Lanham, Paul, Lanham, Md. Recording-meter. No. 1,326,747; Dec. 30; v. 269; p. 822.
- Lanier, Edward H., Cincinnati, Ohio. Pastry-making apparatus. (Reissue.) No. 14,651; May 20; v. 262; p. 451.
- Lanier, Ivey L., Hickory, N. C. Computing-machine. No. 1,292,487; Jan. 28; v. 258; p. 669.
- Lanier, Lewis H., Newport, Ky. Package for ice-cream cones. No. 1,305,908; June 3; v. 263; p. 128.
- Lank, Clarence H., Philadelphia, Pa. Water-level boiler-gage. No. 1,307,982; June 24; v. 263; p. 607.
- Lanning, Charles D. (See Field and Lanning.)
- Lanning, Charles D., Boston, Mass. Weft-thread-controlled electrically-actuated auxiliary mechanism for looms. No. 1,301,280; Apr. 22; v. 261; p. 676.
- Lanning, Charles E. (See Lovelace, Lanning, and Jude-land.)
- Lanning, James K. (See Cunniff, John V., assignor.)
- Lanpher, Leonard A., Marathon, N. Y. Game. No. 1,319,399; Oct. 21; v. 267; p. 418.
- Lanphier, Robert C. (See White and Lanphier.)
- Lansing, James A., Scranton, Pa. Range. No. 1,319,778; Oct. 28; v. 267; p. 513.
- Lansky, Anthony, Jr., Brooklyn, N. Y. Antislipping attachment for crutches and canes. No. 1,314,000; Aug. 26; v. 265; p. 490.
- Langston Monotype Machine Company. (See Bancroft, John S., assignor.)
- Langston Monotype Machine Company. (See Bancroft and Indahl, assignors.)
- Langston Monotype Machine Company. (See Indahl, Mauritz C., assignor.)
- Langston Monotype Machine Company. (See Knight, Amos L., assignor.)
- Langston Monotype Machine Company. (See Pierpont, Frank H., assignor.)
- Langston Monotype Machine Company. (See Wigg, William, assignor.)
- Lantz, John L., Ada, Ohio. Fish-hook. No. 1,293,127; Feb. 4; v. 259; p. 36.
- Lanyon, Samuel H., Oakland, Calif. Insulating-support. No. 1,306,670; June 10; v. 263; p. 302.
- Lanyon, Samuel H., Oakland, Calif. Insulating-support. No. 1,324,559; Dec. 9; v. 269; p. 298.
- Lanza, Benjamin, Philadelphia, Pa. Railway-tie. No. 1,295,771; Feb. 25; v. 259; p. 738.
- Lape, Willard E., assignor of one-half to W. J. Lewis, Syracuse, N. Y. Hydraulic transmission. No. 1,294,121; Feb. 11; v. 259; p. 299.
- Lapeer Tractor-Truck Co. (See Winn, Sidney B., assignor.)
- Lapham, De Forest A., and A. M. Loungway, Syracuse, N. Y. Tool-holder and reamer. No. 1,311,406; July 29; v. 264; p. 757.
- Lapiens, Fred W., Marion, Tex. Bell attachment. No. 1,294,122; Feb. 11; v. 259; p. 299.
- Lapinskas, Kazimeras, Union City, Conn. Undersea destroyer. No. 1,299,483; Apr. 8; v. 261; p. 225.
- Laplant, Harry N., Detroit, Mich. Crutch. No. 1,322,800; Nov. 25; v. 268; p. 626.
- Lapointe, Joseph, West Warren, Mass. Ratchet-wrench. No. 1,322,586; Nov. 25; v. 268; p. 586.
- Lapointe Machine Tool Company. (See Acton, Michael J., assignor.)
- Lapointe Machine Tool Company. (See Blanchard, Harry E., assignor.)
- Lapointe, Ralph R., Hudson, and B. F. Levy, Boston, Mass. Broaching-machine. No. 1,296,535; Mar. 4; v. 260; p. 161.
- Lapp, Frederick W., et al. (See Lieske, Ernst, assignor.)
- Lappen, James E., Winona, Minn. Making cement-fiber board. No. 1,297,480; Mar. 18; v. 260; p. 435.
- Lappin, Frederick A., Middlesborough, England. Toy boat. No. 1,307,260; June 17; v. 263; p. 441.
- Laqua, Herman, Jumbro Falls, Minn. Grain-binder attachment. No. 1,301,717; Apr. 22; v. 261; p. 760.
- Laquai, George, Zurich, Switzerland. Cooking apparatus with water-bath. No. 1,299,963; Apr. 8; v. 261; p. 334.
- Laraway, Fred A., Cleveland, N. Y. Packing-holder. No. 1,311,450; July 29; v. 264; p. 764.
- Laraway, William H., and L. V. Lillibridge, Grand Rapids, Mich. Curling-tongs. No. 1,323,598; Dec. 2; v. 269; p. 70.
- Larcom, William S., Nogales, Ariz. Check-holder. No. 1,309,327; July 8; v. 264; p. 272.
- Large, William A., Tredway, Tex. Station-indicator. No. 1,294,280; Feb. 11; v. 259; p. 335.
- Laridon, Constant, Detroit, Mich. Railway automatic switch. No. 1,304,329; May 20; v. 262; p. 410.
- Larimore, Albert W. (See Morris and Larimore.)
- Larkin, Charles J., Cherokee, E. F. Fox, and E. M. Fox; said Larkin assignor to The Fox Chemical Company, Des Moines, Iowa. Hog-oiler. No. 1,314,274; Aug. 26; v. 265; p. 543.
- Larkin Co. (See Pedrick, William E., assignor.)
- Larkin, Elwood T., assignor to Sterling Engine Company, Buffalo, N. Y. Reversing-gearing. No. 1,291,560; Jan. 14; v. 258; p. 391.
- Larkin, Walter, assignor to H. Brinton Company, Philadelphia, Pa. French-weft-knitting machine. No. 1,307,907; June 24; v. 263; p. 593.
- Larkin, William, Tacoma, assignor of one-half to J. A. Miller, Okanogan county, Wash. Automatic signal. No. 1,303,923; May 20; v. 262; p. 335.
- Larkin, William J., assignor to Waterbury Clock Co., Waterbury, Conn. Watchcase. No. 1,313,636; Aug. 19; v. 265; p. 387.
- Larkins, Michael, South Bethlehem, Pa. Car-coupling. No. 1,301,281; Apr. 22; v. 261; p. 677.
- Larlee, Herman A., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter. No. 1,324,357; Dec. 9; v. 269; p. 258.
- Larmore, Ovil J., Wappingers Falls, N. Y. Positive timer for lock-stitch sewing-machines. No. 1,325,020; Dec. 16; v. 269; p. 445.
- Larned, Carter & Company. (See Carter, David S., assignor.)
- Larner, Chester W., Cleveland, Ohio. Position-indicator for plunger-valves. No. 1,314,340; Aug. 26; v. 265; p. 555.
- Larner, Chester W., Philadelphia, Pa. Taper-plug valve. No. 1,314,341; Aug. 26; v. 265; p. 555.
- Larrabee, Clinton E., Binghamton, N. Y. Synchronizing clock system. No. 1,313,305; Aug. 19; v. 265; p. 325.
- Larrabee, Clinton E., Binghamton, assignor to International Time Recording Company of New York, Endicott, N. Y. Counter. No. 1,299,197; Apr. 1; v. 261; p. 132.
- Larrabee, Lee. (See Hancock, Charles E., assignor.)
- Larrowe Construction Company, The. (See Wertenbruch, Antony, assignor.)
- Larrowe Milling Company, The. (See Wertenbruch, Antony, assignor.)
- Larsen, A. M. (See Stevenson, John J., assignor.)
- Larsen, Adolf. (See Stokke and Larsen.)
- Larsen, Arnold, Cleveland, Ohio, assignor to Briant Manufacturing Company, Indianapolis, Ind. Game apparatus. No. 1,302,387; Apr. 29; v. 261; p. 918.
- Larsen, Arnold, assignor to K. E. Harvey, Cleveland, Ohio. Repeating firearm. No. 1,325,253; Dec. 16; v. 269; p. 489.
- Larsen, Charles F., Chicago, Ill. Cigar-lighter. No. 1,325,894; Dec. 23; v. 269; p. 625.
- Larsen, Hans G. (See Larsen, Holmes, and Larsen.)
- Larsen, Ivert, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Wire-feeding mechanism. No. 1,316,310; Sept. 16; v. 266; p. 360.
- Larsen, Jacob C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Brake mechanism for six-wheel trucks. No. 1,298,228; Mar. 25; v. 260; p. 621.
- Larsen, Jacob C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Brake mechanism for six-wheel trucks. No. 1,319,877; Oct. 28; v. 267; p. 532.
- Larsen, Jacob F., assignor of one-half to J. Dziadaszek, Chicago, Ill. Support for hinged members. No. 1,306,853; June 17; v. 263; p. 368.
- Larsen, James M., Chicago, Ill. Transmission mechanism for motor-vehicles. No. 1,313,392; Aug. 19; v. 265; p. 341.
- Larsen, Jens P. (See Nielsen and Larsen.)
- Larsen, John M. (See Alfson, Harold, assignor.)
- Larsen, John M. (See Bonde and Norman, assignors.)
- Larsen, John M., Chicago, Ill. Preserving fish. No. 1,322,312; Nov. 18; v. 268; p. 482.
- Larsen, Lars C., San Francisco, Calif. Mold for repairing concrete cylinders. No. 1,324,422; Dec. 9; v. 269; p. 271.
- Larsen, Louis. (See Smith, Larsen, and Pearson.)
- Larsen, Louis, Brooklyn, assignor to Sundh Electric Company, New York, N. Y. Fluid-flow indicator. No. 1,292,334; Jan. 21; v. 258; p. 612.
- Larsen, Louis, Brooklyn, assignor to The Sundh Electric Company, New York, N. Y. Motor control. No. 1,309,640; July 15; v. 264; p. 367.
- Larsen, Louis B., O. J. Holmes, and H. G. Larsen, Chicago, Ill. assignors to Acme Motion Picture Projector Company. Motion-picture machine. No. 1,293,128; Feb. 4; v. 259; p. 36.
- Larsen, Nels H., Chicago, Ill. Atomizer. No. 1,294,490; Feb. 18; v. 259; p. 420.
- Larsen, Nels H., Detroit, Mich. Scale. No. 1,301,460; Apr. 22; v. 261; p. 710.
- Larsen, Olaf. (See Valerius and Larsen.)
- Larsen, Werner R. B., Copenhagen, Denmark. Making screens for use in producing half-tone negatives. No. 1,307,824; June 24; v. 263; p. 578.
- Larsh, Everett P., assignor to The Burnett-Larsh Manufacturing Company, Dayton, Ohio. Pump. No. 1,301,282; Apr. 22; v. 261; p. 677.
- Larsh, Everett P., assignor to The Burnett-Larsh Manufacturing Company, Dayton, Ohio. Mounting for fluid-pressure systems. No. 1,308,850; July 8; v. 264; p. 182.



- Larsh, Everett P., Dayton, Ohio, assignor to The Burnett-Larsh Manufacturing Company. Silencer for water-distribution systems. No. 1,318,158; Oct. 7; v. 267; p. 95.
- Larson, Albert W. (See Carlson and Larson.)
- Larson, Albert W. (See Stenman, Bror F., assignor.)
- Larson, Albert W., assignor to Stenman Electric Valve Grinder Company, Worcester, Mass. Valve-grinder. No. 1,313,490; Aug. 19; v. 265; p. 359.
- Larson, Alfred T. (See Lamb and Larson.)
- Larson, Andrew F., Portland, Oreg., assignor to Portland Industrial Company. Door-hanger. No. 1,309,205; July 8; v. 264; p. 249.
- Larson, Charles E. (See Lechnyr and Larson.)
- Larson, Charles E. (See Zesbaugh, Larson, Thomas, and Fryckberg.)
- Larson, Charles O., Sioux Falls, S. D. Automatic shut-off for stand-boilers. No. 1,314,067; Aug. 26; v. 265; p. 502.
- Larson, David C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Control for electric elevators. No. 1,291,561; Jan. 14; v. 258; p. 391.
- Larson, David C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Accelerating-magnet. No. 1,309,641; July 15; v. 264; p. 367.
- Larson, David C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Reverse-phase relay. No. 1,309,642; July 15; v. 264; p. 368.
- Larson, David C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Stop-motion apparatus. No. 1,311,655; July 29; v. 264; p. 803.
- Larson, David C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Brake. No. 1,317,798; Oct. 7; v. 267; p. 26.
- Larson, David C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Controller-board. No. 1,324,358; Dec. 9; v. 269; p. 259.
- Larson, Edward, Leridala, Sweden. Safety device for firearms. No. 1,306,965; June 17; v. 263; p. 388.
- Larson, Edwin L., Voltaire, N. D. Spring-seat. No. 1,323,874; Dec. 2; v. 269; p. 122.
- Larson, Elmer L. (See Ferguson and Larson.)
- Larson, Frank J., Springbrook, Wis. Paint-dispensing can. No. 1,323,875; Dec. 2; v. 269; p. 122.
- Larson, Fredrik F., Waterbury, Conn. Pen and pencil clip. No. 1,313,826; Aug. 19; v. 265; p. 423.
- Larson, George W., New York, N. Y. Tool-holder. No. 1,290,247; Jan. 7; v. 258; p. 56.
- Larson, Gunnar, Chicago, Ill. Live-bait holder. No. 1,326,352; Dec. 30; v. 269; p. 747.
- Larson, John, Watkins, Colo. Lock. No. 1,297,872; Mar. 18; v. 260; p. 519.
- Larson, John, Tacoma, Wash. Propelling device for boats. No. 1,320,697; Nov. 4; v. 268; p. 63.
- Larson, John M., assignor to National Regulator Company, Chicago, Ill. Pressure-regulator. No. 1,303,807; May 13; v. 262; p. 276.
- Larson, Julius, assignor of one-half to B. Swanson, New Haven, Conn. Drafting instrument. No. 1,299,964; Apr. 8; v. 261; p. 334.
- Larson, Lauri W., Canterbury, Conn. Letter-box. No. 1,299,740; Apr. 8; v. 261; p. 284.
- Larson, Louis J., Washington, D. C. Tensiometer. No. 1,322,123; Nov. 18; v. 268; p. 446.
- Larson, Louis P. (See Kolby, Larson, and Nielsen.)
- Larson, Nils E. (now by judicial change of name Nils E. Goodactive,) Chicago, Ill. Automatic belt-shifter. No. 1,319,014; Oct. 14; v. 267; p. 320.
- Larson, Ole A., and C. J. Lalliss, Salt Lake City, Utah. Automobile radiator-cover. No. 1,292,955; Jan. 28; v. 258; p. 781.
- Larson, Oscar J. (See Herpst and Larson.)
- Larson, Thorwald, Arco, Minn. Grain-drill. No. 1,306,823; June 17; v. 263; p. 362.
- Larson, Victor A., Chicago, Ill. Humidifying device. No. 1,310,705; July 22; v. 264; p. 593.
- Larson, William, Minneapolis, Minn. Motor for heat-regulators. No. 1,293,811; Feb. 11; v. 259; p. 226.
- Larsson, Carl H., Seattle, Wash. Phonograph-horn. No. 1,323,777; Dec. 2; v. 269; p. 104.
- Larsson, Sven, assignor, by mesne assignments, to Ludwigsbergs Verkstads Aktiebolag, Stockholm, Sweden. Rotary pump or engine. No. 1,297,700; Mar. 18; v. 260; p. 482.
- Larzelere, Charles B., Schenectady, N. Y., assignor to General Electric Company. Polyphase relay. No. 1,315,780; Sept. 9; v. 266; p. 246.
- Larzelere, Herman G., New Rochelle, N. Y. Concrete-mold. No. 1,313,393; Aug. 19; v. 265; p. 341.
- Lasares, George C., Springfield, Mass. Toy cannon. No. 1,312,698; Aug. 12; v. 265; p. 190.
- Lasares, George C., Springfield, Mass. Toy bowling game. No. 1,321,108; Nov. 11; v. 268; p. 205.
- Lasares, George C., Springfield, Mass. Toy train. No. 1,321,109; Nov. 11; v. 268; p. 205.
- Lascelle, Lynden F. (See Stanbrough and Lascelle.)
- Lash, Horace W., San Francisco, Cal. Reducing iron oxids. No. 1,296,973; Mar. 11; v. 260; p. 298.
- Lasher, Henry M., assignor to The Kansas City Refining Company, Kansas City, Kans. Producing hydrochloric acid from sludge. No. 1,309,206; July 8; v. 264; p. 249.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Rotary card-sorter. No. 1,298,971; Apr. 1; v. 261; p. 82.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Interlocking release mechanism for keyboards. No. 1,305,556; June 3; v. 263; p. 62.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Perforating-machine. No. 1,305,557; June 3; v. 263; p. 62.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Card-feed-delivery mechanism. No. 1,307,681; June 24; v. 263; p. 551.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Set-bar mechanism for perforating-machines. No. 1,307,682; June 24; v. 263; p. 552.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Flexible-connection box. No. 1,307,683; June 24; v. 263; p. 552.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Lock for accumulator mechanism of adding-machines. No. 1,309,897; July 15; v. 264; p. 415.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Automatic naught-stop for adding-machines. No. 1,309,898; July 15; v. 264; p. 415.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Flexible connection. No. 1,311,565; July 29; v. 264; p. 786.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Flexible set-bar action for perforating-machines. No. 1,311,566; July 29; v. 264; p. 786.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Sorting-machine. No. 1,315,370; Sept. 9; v. 266; p. 174.
- Lasker, William W., Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y. Paper-feeding device. No. 1,317,509; Sept. 30; v. 266; p. 671.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Flexible controlling means. No. 1,319,477; Oct. 21; v. 267; p. 434.
- Laskey, William B., Marblehead, Mass. Making candy. No. 1,318,292; Oct. 7; v. 267; p. 121.
- Laskowitz, Michael. (See Vollmer and Laskowitz.)
- Laskowski, Stanley, Indiana Harbor, Ind. Furniture-caster. No. 1,301,139; Apr. 22; v. 261; p. 643.
- Lassalle, Antonin, San Francisco, Calif. Target. No. 1,305,653; June 3; v. 263; p. 81.
- Lasserre, Charles W., Fernandina, Fla. Broad-gage attachment for vehicles. No. 1,313,394; Aug. 19; v. 265; p. 341.
- Lastawskas, Frank, Buckley, Wash. Artificial limb. No. 1,293,478; Feb. 4; v. 259; p. 117.
- Lastawskas, Frank, Seattle, Wash. Potato-grating machine. No. 1,325,159; Dec. 16; v. 269; p. 471.
- Laszlo, Anthony, et al. (See Simms, Joseph A., assignor.)
- Laszlo, Sandor, and B. Kovacs, New York, N. Y. Anti-slipping device for heels. No. 1,297,701; Mar. 18; v. 260; p. 483.
- Latchaw, Charles F. (See Latchaw, Isaac N., and C. F.)
- Latchaw, Isaac N., and C. F., Findlay, Ohio. Disinfecting device. No. 1,298,972; Apr. 1; v. 261; p. 33.
- Latham, Albert, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine. No. 1,290,248; Jan. 7; v. 253; p. 57.
- Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,301,283; Apr. 22; v. 261; p. 677.
- Latham, Albert, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutter-grinding device. No. 1,308,085; July 1; v. 264; p. 15.
- Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stop mechanism. No. 1,316,370; Sept. 16; v. 266; p. 371.
- Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus material projecting beyond seams. No. 1,319,293; Oct. 21; v. 267; p. 398.
- Latham, Albert, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding device. No. 1,319,713; Oct. 28; v. 267; p. 501.
- Latham, Albert, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Rotary cutter. No. 1,325,645; Dec. 23; v. 269; p. 579.
- Latham, Charles, Detroit, Mich. Window-curtain stretcher. No. 1,296,297; Mar. 4; v. 260; p. 109.
- Latham, Charles W., Caledonia, Minn. Differential drive mechanism. No. 1,316,248; Sept. 16; v. 266; p. 348.
- Latham, Chester A. (See De Haven, William L., assignor.)



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- Latham, Mattie E., Montevallo, Ala. Automatic elevator-door closer. No. 1,312,500; Aug. 5; v. 265; p. 121.
- Latham, William D., Atlanta, Ga. Furnace. No. 1,303,924; May 20; v. 262; p. 335.
- Latimer Chemical Company, The. (See Goodwin, Harry B., assignor.)
- Latimer, Henry G., Jr., Auburn, N. Y. Automobile-seat. No. 1,312,501; Aug. 5; v. 265; p. 121.
- Latimer, Joseph B. (See Michon, Joseph H. M., assignor.) (Reissue.)
- Latour, Marius C. A., Paris, France. Radiosignaling installation. No. 1,317,025; Sept. 23; v. 266; p. 542.
- Latourelle, Telephore, Montreal, Quebec, Canada. Water-heater. No. 1,326,277; Dec. 30; v. 269; p. 733.
- Latsch, Jerome E., and G. N. Markle, Lincoln, Nebr. Adjustable guard for printers' galleys. No. 1,311,656; July 29; v. 264; p. 803.
- Latslaw, Charles E., Minneapolis, Minn. Decimal-dial. No. 1,301,140; Apr. 22; v. 261; p. 648.
- Latslaw, Joseph W., assignor to National Tube Company, Pittsburgh, Pa. Dressing skelp. No. 1,303,925; May 20; v. 262; p. 335.
- Latslaw, Wiley A., Clarion, Mich. Spark-plug. No. 1,305,613; June 3; v. 263; p. 74.
- Latta, Emmitt G., Syracuse, N. Y. Type-writing machine. No. 1,295,772; Feb. 25; v. 259; p. 739.
- Latta, Milton N., Valentine, Nebr. Internal works of tubular wells. No. 1,309,738; July 15; v. 264; p. 385.
- Lattanzi, Angelo, Vancouver, British Columbia, Canada. Automatic railway-gate. No. 1,308,598; July 1; v. 264; p. 108.
- Lattig, Charles I., assignor to Lattig-Shimer Manufacturing Company, Bethlehem, Pa. Chair construction. No. 1,295,043; Feb. 18; v. 259; p. 547.
- Lattig, Charles I., assignor, by mesne assignments, to Langslow-Fowler Company, Rochester, N. Y. School-chair. No. 1,298,519; Mar. 25; v. 260; p. 684.
- Lattig-Shimer Manufacturing Company. (See Lattig, Charles I., assignor.)
- Lattimer-Stevens Company, The. (See Stevens, Frank E., assignor.)
- Lattimore, Lewis, Bonesteel, S. D. Fork attachment. No. 1,309,949; July 15; v. 264; p. 425.
- Lau, Frederick J., Waterbury, assignor to Worcester Metal Goods Company, Shelton, Conn. Lock for bag-frames. No. 1,324,162; Dec. 9; v. 269; p. 221.
- Lau, Harry M., et al. (See Bauman, Frank J., assignor.)
- Laubach, Franz, Oak Park, Ill., assignor to Lyon & Healy, Chicago, Ill. Tracker-board. No. 1,317,201; Sept. 30; v. 266; p. 612.
- Laubach, Hiram F., Tacoma, Wash. Combined check and cut-off valve. No. 1,291,939; Jan. 21; v. 258; p. 516.
- Lauby, Michael J., Lexington, Nebr. Draw-bar construction. No. 1,305,472; June 3; v. 263; p. 46.
- Lauchin, George Y., assignor to one-half to E. H. Sensiba, Crystal Falls, Mich. Engine-starter. No. 1,298,063; Mar. 25; v. 260; p. 585.
- Laudensack, Albert F. (See Burton and Laudensack.)
- Lauerman, John D., Lake Hopatcong, N. J. Can receptacle and opener. No. 1,307,908; June 24; v. 263; p. 593.
- Laugen, Edward O. (See Vathing and Laugen.)
- Laughlin, George F., Chicago, Ill. Brine-retaining valve. No. 1,308,086; July 1; v. 264; p. 15.
- Laughlin, Hugh B., San Francisco, Cal. Shoe and glove buttoner. No. 1,291,563; Jan. 14; v. 258; p. 392.
- Laughlin, Robert, Buffalo, assignor to Commercial Electrolytic Corporation, New York, N. Y. Gun-cleaning compound and preparing same. No. 1,296,196; Mar. 4; v. 260; p. 87.
- Laughon, Eugene A., Roanoke, Va. Train-control system. No. 1,319,015; Oct. 14; v. 267; p. 320.
- Laughran, William F., and F. C. Alarie, assignors of one-third to W. A. Lee, Troy, N. Y. Spark-plug. No. 1,318,391; Oct. 14; v. 267; p. 201.
- Laurel Motors Corporation. (See Roof, Robert M., assignor.)
- Laurent, Edmond, Hellemmes-Lille, France. Steam-generator. No. 1,315,024; Sept. 2; v. 266; p. 101.
- Laurent, Louis E., et al. (See Cherry, Edward E., assignor.)
- Laurents, Jules G., Lake Arthur, La. Joint-trimming machine. No. 1,305,378; June 3; v. 263; p. 28.
- Laurenz, Otto, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Milling-cutter. No. 1,319,714; Oct. 28; v. 267; p. 501.
- Laureyns, Gustave G., Newark, N. J. Safety device for sidewalk elevator-shaft doors and the like. No. 1,321,219; Nov. 11; v. 268; p. 226.
- Laurie, John S., Fort Totten, N. Y. Projectile. No. 1,297,873; Mar. 18; v. 260; p. 519.
- Laurin, Laurencus. (See Haller, Carl T., assignor.)
- Laurin, Robert, Chicago, Ill. Switch-operating device. No. 1,323,700; Dec. 2; v. 269; p. 89.
- Lauritzen, John C. (See Nesbitt and Lauritzen.)
- Laursen Automatic Pump Co. (See Tobin, Stephen J., assignor.)
- Laursen, Laurits A., Eau Claire, Wis. Pumping mechanism. No. 1,304,330; May 20; v. 262; p. 411.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Newton, Mass. Folding-machine. No. 1,294,919; Feb. 18; v. 259; p. 520.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Newton, Mass. Flat shoe-upper member. No. 1,295,334; Feb. 25; v. 259; p. 637.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Newton, Mass. Folding-machine. No. 1,301,718; Apr. 22; v. 261; p. 760.
- Lauter Company. (See Lynde, Frank G., assignor.)
- Lauterbach, William F., assignor, by mesne assignments, of one-half to The Ralko Products Company, Dayton, Ohio. Fire-extinguisher. No. 1,302,678; May 6; v. 262; p. 37.
- Lauterbach, William F., U. J. Rappel, and M. G. Kopf; said Rappel and Kopf assignors to The Ralko Products Company, Dayton, Ohio. Fire-extinguisher. No. 1,302,679; May 6; v. 262; p. 37.
- Lauterbur, Frank X., Sidney, Ohio. Tractor. No. 1,313,095; Aug. 12; v. 265; p. 268.
- Lavalle, Cyril. (See Raymond, Mathieu, and Lavalle.)
- Lavan, Frank, Gorham, Colo. Combined kitchen cabinet and sink. No. 1,296,670; Mar. 11; v. 260; p. 228.
- Lavender, Herbert P., Walsall, England. Automatically-opening screwing-dies. No. 1,309,141; July 8; v. 264; p. 238.
- Lavender, Stephen J., Barnesville, Ga. Fuel-heater for internal-combustion engines. No. 1,291,564; Jan. 14; v. 258; p. 392.
- Lavender, Stephen J., Barnesville, Ga. Fuel-economizer for internal-combustion engines. No. 1,313,096; Aug. 12; v. 265; p. 269.
- Laventhal, J. M. (See De Long, Nelson, assignor.)
- Lavielle, Fernand E., Bordeaux, France. Folding-case system. No. 1,317,026; Sept. 23; v. 266; p. 543.
- Lavigne, Albert, Brunswick, Me. Loom. No. 1,315,631; Sept. 9; v. 266; p. 220.
- Lavigne, Albert, Brunswick, Me., assignor to The Stafford Company, Readville, Boston, Mass. Let-off mechanism for looms. No. 1,310,398; July 15; v. 264; p. 505.
- Lavigne, Joseph P., Detroit, Mich. Valve. No. 1,294,491; Feb. 18; v. 259; p. 420.
- Lavigne, Joseph P., assignor to Detroit Mechanical Engineering Company, Detroit, Mich. Steering-gear. No. 1,319,294; Oct. 21; v. 267; p. 398.
- Lavigne, Joseph P., assignor to Detroit Mechanical Engineering Company, Detroit, Mich. Universal joint. No. 1,319,295; Oct. 21; v. 267; p. 398.
- Lavigne, Joseph P., assignor to Detroit Mechanical Engineering Company, Detroit, Mich. Universal joint. No. 1,324,315; Dec. 9; v. 269; p. 250.
- Lavigne Manufacturing Company, The. (See Kellum, Charles S., assignor.)
- Lavolette, Felix, assignor of one-half to Counard & Neville, Green Bay, Wis. Dirigible headlight. No. 1,312,914; Aug. 12; v. 265; p. 232.
- Lavoie, Alphonse J., Montreal, Quebec, Canada. Chuck. No. 1,295,994; Mar. 4; v. 260; p. 39.
- Law, Henry M., Corvallis, Oreg. Fishing-tackle. No. 1,294,281; Feb. 11; v. 259; p. 336.
- Law, James B., Darlington, S. C. Hame. No. 1,293,129; Feb. 4; v. 259; p. 37.
- Law, James C., Carbondale, Pa. Detachable-link chain. No. 1,296,974; Mar. 11; v. 260; p. 298.
- Law, James C., Carbondale, Pa. Drive-chain. No. 1,309,142; July 8; v. 264; p. 238.
- Law, William. (See Lorenz and Law.)
- Lawhead, James W., Wilmington, Ohio. Air-compressor. No. 1,295,529; Feb. 25; v. 259; p. 683.
- Lawhun, Samuel M., Jersey City, N. J., assignor of one-half to J. L. Perlman, New York, N. Y. Moving-picture camera. No. 1,302,388; Apr. 29; v. 261; p. 918.
- Lawler, Edward W., Bayonne, N. J., assignor to Hardinge Conical Mill Company, New York, N. Y. Lining for tube-mills. No. 1,315,025; Sept. 2; v. 266; p. 101.
- Lawler, James A., Rushville, Ill. Number-holder for automobiles. No. 1,300,743; Apr. 15; v. 261; p. 526.
- Lawler, James J., Pelham, N. Y. Shower-bath head. No. 1,290,249; Jan. 7; v. 258; p. 57.
- Lawler, Leslie. (See Chandler, Ella W., assignor.)
- Lawler, Leslie E. (See Deibel and Lawler.)
- Lawler, Miles J., Denver, Colo. Door-check. No. 1,297,189; Mar. 11; v. 260; p. 345.
- Lawrence, Albert L., trustee. (See Drake, Ora, assignor.)
- Lawrence, Benjamin, Leyton, England. Magneto impulse-starter. No. 1,294,282; Feb. 11; v. 259; p. 336.
- Lawrence, Charles P. (See Coe and Lawrence.)
- Lawrence, Edward E., Jamaica, assignor to Loose Wiles Biscuit Company, Long Island City, New York, N. Y. Mechanism and process for cutting filled wafers. No. 1,298,520; Mar. 25; v. 260; p. 684.
- Lawrence, Frank B., Watford, Conn. Drawing or sketch board. No. 1,316,729; Sept. 23; v. 266; p. 489.
- Lawrence, George, Tacoma, Wash. Lock. No. 1,317,510; Sept. 30; v. 266; p. 671.
- Lawrence, George A., Woburn, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Pneumatic roll. No. 1,314,342; Aug. 26; v. 265; p. 555.
- Lawrence, George H. (See Wagner and Lawrence.)
- Lawrence, Homer H., St. Albans, Vt. Automatic lathe. No. 1,305,473; June 3; v. 263; p. 46.
- Lawrence, Horace B. (See Burrows and Lawrence.)



- Lawrence, John, Samfordyce, and O. C. Whitton, Rio-grande, Tex. Auto-body. No. 1,316,488; Sept. 16; v. 266; p. 394.
- Lawrence, John D. (See Allmand and Lawrence.)
- Lawrence, John D., and W. G. Fleischauer, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Window-lifter stop. No. 1,311,168; July 29; v. 264; p. 712.
- Lawrence, John H., New York, N. Y. Fluid-distributing means. No. 1,318,676; Oct. 14; v. 267; p. 255.
- Lawrence, Paul A., Benson, Nebr. Internal-combustion engine. (Reissue.) No. 1,476,66; Dec. 9; v. 269; p. 338.
- Lawrence, Samuel E., Saybrook, Ill. Vehicle-towing mechanism. No. 1,307,781; June 24; v. 263; p. 570.
- Lawrence, William P., Quinlan, assignor of one-fourth to S. E. Dunnam, one-fourth to L. T. Barnett, and one-fourth to G. N. Cooke, Hunt county, Tex. Crude-oil separator. No. 1,315,632; Sept. 9; v. 266; p. 220.
- Lawrence, Willse, assignor of one-tenth to F. A. Bullington, Portland, Oreg., and nine-tenths to United States Manufacturing Company, South Deerfield, Deerfield, Mass. Means for mounting trench-guns. No. 1,322,124; Nov. 18; v. 268; p. 446.
- Lawrence, Willse, Springfield, assignor to United States Manufacturing Company, South Deerfield, Mass. Means for mounting machine-guns. No. 1,322,457; Nov. 18; v. 268; p. 510.
- Lawres, Abraham, Brooklyn, N. Y. Trench fountain-pen. No. 1,307,782; June 24; v. 263; p. 570.
- Lawrie, Alma G. (See Lawrie, John W., assignor.)
- Lawrie, John W., Horton, Kans., assignor to A. G. Lawrie. Automobile-jack. No. 1,297,874; Mar. 18; v. 260; p. 519.
- Lawrushko, Wasył, assignor of one-half to W. Slezak, Bridgeport, Conn. Electric stop-motion device for looms. No. 1,321,762; Nov. 11; v. 268; p. 329.
- Lawry, Arthur A., Valdosta, Ga. Apparatus for casting gold inlays. No. 1,290,250; Jan. 7; v. 258; p. 57.
- Laws, Frederick C. V., London, England. Photographic camera of the type employed on aircraft. No. 1,293,479; Feb. 4; v. 259; p. 117.
- Lawshe, John G., Flemington, N. J. Superheating-manifold. No. 1,317,712; Oct. 7; v. 267; p. 10.
- Lawson, Clarence J., Yonkers, N. Y. Bottle-capping machine. No. 1,304,578; May 27; v. 262; p. 498.
- Lawson, David, West New Brighton, N. Y. Fire-extinguishing apparatus. No. 1,296,671; Mar. 11; v. 260; p. 228.
- Lawson, Dean C., East Rochester, N. Y. Hook. No. 1,325,202; Dec. 16; v. 269; p. 480.
- Lawson, Edward, El Dorado, Wis. Hemp-gatherer. No. 1,311,407; July 29; v. 264; p. 757.
- Lawson, Harry, New York, assignor of one-half to F. W. Kuehnast, Mount Vernon, N. Y. Umbrella safety device. No. 1,326,068; Dec. 23; v. 269; p. 657.
- Lawson, Jasper C., assignor of two-fifths to G. Holloway, Calexico, Cal. Pie-plate. No. 1,297,190; Mar. 11; v. 260; p. 345.
- Lawson, Joel S., St. James, assignor to The R. Thomas and Sons Company, New York, N. Y. Swivel connection. No. 1,305,909; June 3; v. 263; p. 128.
- Lawson, John, Central Falls, R. I., assignor to Hemphill Manufacturing Company. Thread-severing device for knitting-machines. No. 1,293,812; Feb. 11; v. 259; p. 226.
- Lawson, John, Central Falls, R. I., assignor to Hemphill Manufacturing Company. Combined thread-binder and thread-severing device for knitting-machines. No. 1,293,813; Feb. 11; v. 259; p. 226.
- Lawson, Laurits J. (See Lawson, Peter C. and L. J.)
- Lawson, Peter C., Boston, and L. J. Lawson, Woburn, Mass. Signaling device for motor-vehicles. No. 1,296,093; Mar. 4; v. 260; p. 63.
- Lawson, Philip H., St. Joseph, Mo. Automatic feeder for roller-mills. No. 1,324,832; Dec. 16; v. 269; p. 411.
- Lawson, Reuben F., Kansas City, Mo. Oiling device for dough-molding machines. No. 1,305,127; May 27; v. 262; p. 600.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation of Paterson, N. J. Shoe-nail-reclaiming machine. No. 1,303,334; May 13; v. 262; p. 190.
- Lawson, William E., assignor of one-half to J. B. Furber, Rahway, N. J. Aquatic toy. No. 1,323,876; Dec. 2; v. 269; p. 123.
- Lawton, Arthur A. (See Lawton, Frederick H., assignor.)
- Lawton, Charles T., et al. (See Byrne, David, assignor.)
- Lawton, Frederick H., assignor of one-half to A. A. Lawton, Grand Rapids, Mich. Shock-absorbing and spring appliance. No. 1,320,157; Oct. 28; v. 267; p. 584.
- Lawton, George R., Watkins, N. Y. Automatic chicken-feeder. No. 1,315,316; Sept. 9; v. 266; p. 164.
- Lawton, Harwood G., Albany, N. Y. Asparagus-knife. No. 1,316,962; Sept. 23; v. 266; p. 530.
- Lawton, Jay W., Wabasha, assignor to Webb Publishing Company, St. Paul, Minn. Seed-tester. No. 1,295,530; Feb. 25; v. 259; p. 683.
- Lawver, George F. and J. W. Uniontown, Kans. Pump-supporting bracket. No. 1,306,599; June 10; v. 263; p. 288.
- Lawver, Jonas W. (See Lawver, George F. and J. W.)
- Laxman, Grant I., and H. T. Burkey, Tulsa, Okla. Clothes-rack. No. 1,313,827; Aug. 19; v. 265; p. 423.
- Laxton, Albert E., Toronto, Ontario, Canada. Artificial-hand attachment. No. 1,307,866; June 24; v. 263; p. 586.
- Lay, Samuel C., Ridgeville, Ind., and F. M. Baker, Detroit, Mich., assignors to The Joseph Lay Company, Ridgeville, Ind. Wire-feeding mechanism. No. 1,295,044; Feb. 18; v. 259; p. 547.
- Lay, William P., Gadsden, Ala. Marine vessel. No. 1,300,979; Apr. 15; v. 261; p. 577.
- Laycock, Arthur M., Kingston, Pa. Fastening means for leaf-springs. No. 1,314,817; Sept. 2; v. 266; p. 64.
- Laycock, Arthur M., Kingston, Pa. Brake-band support. No. 1,326,748; Dec. 30; v. 269; p. 822.
- Layman, Elitha F., assignor to The National Marking Machine Co., Cincinnati, Ohio. Tray for laundry-marking plus. No. 1,322,313; Nov. 18; v. 268; p. 482.
- Layman, Estes H., Pacific Beach, Calif. Vehicle-tire. No. 1,321,220; Nov. 11; v. 268; p. 226.
- Layman, Florence P., administratrix. (See Layman, Hiram D.)
- Layman, Hiram D., deceased, assignor of one-half to F. P. Layman, Pittsburgh, Pa.; F. P. Layman, administratrix. Receptacle. No. 1,326,353; Dec. 30; v. 269; p. 747.
- Layne & Bowler Company. (See Woodburn, Oscar P., assignor.)
- Layne, Mahlon E., Memphis, Tenn. Well apparatus. No. 1,299,741; Apr. 8; v. 261; p. 284.
- Layne, Mahlon E., Houston, Tex. Drilling apparatus. No. 1,302,058; Apr. 29; v. 261; p. 856.
- Layne, Mahlon E., Memphis, Tenn. Apparatus for separating fluid in wells. No. 1,311,169; July 29; v. 264; p. 712.
- Layne, Ollyn A., Los Angeles, Calif. Separator for wells. No. 1,302,815; May 6; v. 262; p. 63.
- Layne, Ollyn A., Los Angeles, Calif. Forming separators for wells. No. 1,304,493; May 20; v. 262; p. 443.
- Layton, Churchill G., Albany, Oreg. Trap. No. 1,296,407; Mar. 4; v. 260; p. 133.
- Lazar, Tony, Sr., Ybor City, Fla. Clothespin. No. 1,324,423; Dec. 9; v. 269; p. 272.
- Lazarus, Peter L., Wichita, Kans. Egg-holder. No. 1,306,918; June 17; v. 263; p. 380.
- Lazarus, Simon. (See Klotz and Lazarus.)
- Lazear, Leroy C., Chicago, Ill. Steering-wheel. No. 1,311,130; July 22; v. 264; p. 672.
- Lazelle, Horace G., Seattle, Wash. Submersible toy. No. 1,292,618; Jan. 28; v. 258; p. 702.
- Lazuka, Joseph, Newark, N. J. Fire-escape. No. 1,309,950; July 15; v. 264; p. 425.
- Lazzell, James A., Columbus, Ind. Furnace feed-chute. No. 1,313,491; Aug. 19; v. 265; p. 359.
- Lazzuri, Angelo, et al. (See Pain, William, assignor.)
- L'heureux, Ludger, assignor to Montreal Patents Promoting Co. Limited, Montreal, Quebec, Canada. Safety apparatus for launching life-boats. No. 1,297,705; Mar. 18; v. 260; p. 483.
- Le Baron, Wilbur D., assignor to National Carbon Company, Inc., New York, N. Y. Electric meter. No. 1,315,781; Sept. 9; v. 266; p. 247.
- Le Bere, Solomon, Jr., South Tacoma, Wash. Tire. No. 1,325,793; Dec. 23; v. 269; p. 606.
- Le Boeuf, Frank, Belleville, N. J. Fountain-pen. No. 1,302,935; May 6; v. 262; p. 87.
- Le Bourgeois, William B., New Orleans, La. Antirattling device. No. 1,314,001; Aug. 26; v. 265; p. 490.
- Le Carpentier, Victor, Gravelle Sainte Honorine, France, assignor to La Societe Anonyme "Corderies de la Seine." Le Havre, France. Machine for the manufacture of plaited cables of trapezoidal sections. No. 1,318,888; Oct. 14; v. 26; p. 296.
- Le Clair, Eugene M. (See Wilkinson, Charles W., assignor.)
- Le Clair, Frank J., Attleboro, assignor to Freeman-Daughaday Company, Chartley, Mass. Collar-holder. No. 1,311,821; July 29; v. 264; p. 833.
- LeCompte, Edward P., Park City, Utah. Fire-starter. No. 1,295,907; Mar. 4; v. 260; p. 20.
- Le Compte, Leon G., Shandon, assignor of one-half to A. J. Knoblock, McKittick, Calif. Circuit-closing device for liquid-level gages. No. 1,325,160; Dec. 16; v. 269; p. 472.
- Le Crone, Byron K., Effingham, Ill. Apparatus for making stereotypes. No. 1,314,275; Aug. 26; v. 265; p. 543.
- Le Deit, Sylvain, San Jose, Calif. Artificial monument. No. 1,307,366; June 24; v. 263; p. 495.
- Le Doux, George A., San Francisco, Calif. Automobile inside tire. No. 1,300,980; Apr. 15; v. 261; p. 577.
- Le Doux, Hector, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Stop-motion for looms. No. 1,307,012; June 17; v. 263; p. 397.
- Le Duc, Charles, Vernal, Utah. Water-wheel. No. 1,320,626; Nov. 4; v. 268; p. 50.
- Le Fevre, Eugene F., Schenectady, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Ruffling mechanism. No. 1,320,248; Oct. 28; v. 267; p. 601.
- Le Fevre, Franklin T., et al. (See Curtis, Jesse T., assignor.)



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- Le Fevre, George A., assignor of one-half to W. C. Hal-  
leck, New York, N. Y. Reinforced railway-tie. No.  
1,295,532; Feb. 25; v. 259; p. 684.
- Le Fevre, George A., Richmond Hill, N. Y., and W. B.  
Hutchinson, Newark, N. J., assignors to Paxdat Barrel  
and Crate Corporation. Container. No. 1,320,397; Nov.  
4; v. 268; p. 8.
- Le Massena, Andrew, Glen Ridge, N. J., assignor to Mc-  
Loughlin Brothers, Inc., New York, N. Y. Game. No.  
1,316,048. Sept. 16; v. 266; p. 311.
- Le Messurier, Joseph T., Detroit, Mich. Drier. No.  
1,323,484; Dec. 2; v. 269; p. 49.
- Le Mesurier, Louis J., assignor of one-half to Sir W. G.  
Armstrong Whitworth & Company Limited, Elswick  
Works, Newcastle-upon-Tyne, England. Aeroplane-ar-  
resting apparatus. No. 1,315,320; Sept. 9; v. 266; p.  
165.
- Le Munyon, Ethan C., *et al.* (See Moore, Henry N., as-  
signor.)
- Le Page, Joseph P., *et al.* (See LePage, Germain, as-  
signor.)
- Le Page, Joseph Z., Southbridge, Mass. Eyeglasses.  
No. 1,325,362; Dec. 16; v. 269; p. 509.
- Le Rossignol, Robert, Berlin, Germany, assignor to Gen-  
eral Electric Company. Apparatus for exhausting in-  
candescent lamps. No. 1,298,569; Mar. 25; v. 260;  
p. 693.
- Le Rossignol, Robert, Berlin, Germany, assignor to General  
Electric Company. Method and apparatus for manufac-  
turing incandescent-lamp bulbs. No. 1,315,783; Sept.  
9; v. 266; p. 247.
- Le Roy, Frank, and N. W. Whitbeck, assignors to Michi-  
gan Lubricator Company, Detroit, Mich. Valve-handle.  
No. 1,323,195; Nov. 25; v. 268; p. 701.
- Le Roy, James H., and R. G. Repman, Shawano, Wis. Pa-  
per-making machine. No. 1,297,192; Mar. 11; v. 260;  
p. 345.
- Le Roy, Jean A., New York, N. Y. Film-advancing means.  
No. 1,311,238; July 29; v. 264; p. 724.
- Le Sueur, Ernest A., Ottawa, Ontario, Canada. Conduct-  
ing electrolysis. No. 1,300,420; Apr. 15; v. 261;  
p. 458.
- Le Sueur, Ernest A., Ottawa, Ontario, Canada, assignor to  
The Diamond Match Company, Chicago, Ill. Electro-  
lytic apparatus. No. 1,319,715; Oct. 28; v. 267; p.  
501.
- Le Tempt, Charles, and H. W. Green, Harrisburg, Ill.  
Carriage for radiators. No. 1,303,691; May 13; v.  
262; p. 254.
- Le Vene, Nate. (See Frank, Maxwell C., assignor.)
- Lea, Charles. (See Hathaway and Lea.)
- Lea, George W. (See Lea, Nathaniel and G. W.)
- Lea, George W., Calgary, Alberta, Canada. Continuous-  
cord belt. No. 1,321,110; Nov. 11; v. 268; p. 205.
- Lea, James E., Manchester, England. Meter or register-  
ing apparatus. No. 1,293,130; Feb. 4; v. 259; p. 37.
- Lea, Lawrence M., assignor to A. K. McInnis, Hattiesburg,  
Miss. Letter-tie. No. 1,324,424; Dec. 9; v. 269;  
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- Lea, Nathaniel and G. W., Calgary, Alberta, Canada. Ad-  
justable automobile-bearing. No. 1,303,213; May 6;  
v. 262; p. 140.
- Lea, Thomas, El Paso, Tex. Paper-clip. No. 1,314,818;  
Sept. 2; v. 266; p. 64.
- Leach, Edward P., Haileybury, Ontario, Canada. Con-  
crete-mixer. No. 1,324,257; Dec. 9; v. 269; p. 239.
- Leach, Glossie T. R., Pittsburgh, Pa. Spool-holder. No.  
1,310,576; July 22; v. 264; p. 569.
- Leach, Orville L., Providence, R. I. Storage battery. No.  
1,296,408; Mar. 4; v. 260; p. 133.
- Leach, W. A. (See Walker, Forrest A., assignor.)
- Leach, William W., assignor of one-half to W. H. Dixon,  
Mansfield, Ohio. Furnace. No. 1,308,987; July 8; v.  
264; p. 208.
- Leadbetter, Thomas A. N., Hale, A. L. K. Gilchrist,  
Lytham, and W. H. Tate, Brooklands, Eng. Interna-  
tional-combustion engine. No. 1,301,141; Apr. 22; v.  
261; p. 648.
- Leader Iron Works. (See Shorb, William A., assignor.)
- Leahan, Charles H., Ware, Mass. Automobile-lock. No.  
1,320,771; Nov. 4; v. 268; p. 77.
- Leahy, Patrick T., Brooklyn, Ohio. Milk-can cleaning and  
spraying device. No. 1,298,973; Apr. 1; v. 261; p. 83.
- Leak, Louis C., Wausau, Wis. Supporter. No. 1,307,503;  
June 24; v. 263; p. 520.
- Leake, George, Mason City, Iowa. Phonograph-record.  
No. 1,303,074; May 6; v. 262; p. 113.
- Leake, John M., assignor to The Samuel Winslow Skate  
Mfg. Co., Worcester, Mass. Skate. No. 1,310,421;  
July 22; v. 264; p. 541.
- Leake, John M., assignor to The Samuel Winslow Skate  
Mfg. Co., Worcester, Mass. Roll or wheel for roller-  
skates. No. 1,312,855; Aug. 12; v. 265; p. 221.
- Leake, Richard C., Rochester, assignor to General Rail-  
way Signal Company, Gates, N. Y. Automatic train-  
control system. No. 1,291,565; Jan. 14; v. 258; p.  
392.
- Leake, Richard C., Rochester, assignor to General Rail-  
way Signal Company, Gates, N. Y. Electromagnetic de-  
vice. No. 1,299,965; Apr. 8; v. 261; p. 334.
- Leake, Richard C., Rochester, assignor to General Railway  
Signal Company, Gates, N. Y. Electromagnetic device.  
No. 1,320,247; Oct. 28; v. 267; p. 601.
- Leaman, Thomas P., Ithaca, N. Y. Airplane. No.  
1,304,525; May 20; v. 262; p. 450.
- Leamon, William G., Wooster, Ohio. Treating gases  
containing hydrogen sulfid. No. 1,317,583; Sept. 30;  
v. 266; p. 685.
- Lear, George M., New Orleans, La. Cistern. No. 1,312,738;  
Aug. 12; v. 265; p. 198.
- Lear, Guy O., Kuna, Idaho. Water-wheel. No. 1,293,480;  
Feb. 4; v. 259; p. 117.
- Lean, Jesse C., Indianapolis, Ind. D-handle. No. 1,320,560;  
Nov. 4; v. 268; p. 38.
- Leary, James W., Allendale, N. J., assignor to Automatic  
Packing & Labeling Company, Durham, N. C. Feeding  
and weighing mechanism. No. 1,315,675; Sept. 9; v.  
266; p. 227.
- Leask, Henry N., Wallasey, England. Refuse-destructor  
furnace. No. 1,307,909; June 24; v. 263; p. 593.
- Leatherman, Frank A. (See Hess, Maximus, assignor.)
- Leatherman, Robert L., and F. Pfrogner, Mount Pleasant,  
Pa. Adjustable seat and desk. No. 1,324,560; Dec. 9;  
v. 269; p. 298.
- Leatherman, Robert L., and F. Pfrogner, Mount Pleasant,  
Pa. Adjustable seat. No. 1,326,069; Dec. 23; v. 269;  
p. 658.
- Leaton, Thomas H., Nashville, Ark. Cuspidor-tongs. No.  
1,301,852; Apr. 29; v. 261; p. 816.
- Leave, Harry E. (See Bullock and Leave.)
- Leavell, Richard A., assignor of one-half to Stromberg  
Motor Devices Company, Chicago, Ill. Gasolene-feed  
system for carbureters. No. 1,310,915; July 22; v.  
264; p. 631.
- Leaver, Edmund S., assignor of one-half to C. E. Van  
Barneveld, Tucson, Ariz. Apparatus for extracting  
metals from their ores. No. 1,312,488; Aug. 5; v.  
265; p. 119.
- Leaver, James M., Jr., Oakland, Cal. Automatic bundling  
and tying machine. No. 1,295,531; Feb. 25; v. 259;  
p. 683.
- Leavitt, Blanche E., Chicago, Ill. Brassière. No. 1,294,492;  
Feb. 18; v. 259; p. 420.
- Leavitt, Frank M., Smithtown, assignor to E. W. Bliss  
Company, Brooklyn, N. Y. Gyroscope-spinning me-  
chanism. No. 1,291,031; Jan. 14; v. 258; p. 268.
- Leavitt, Frank M., Smithtown, assignor to E. W. Bliss  
Company, Brooklyn, N. Y. Automobile torpedo. No.  
1,308,180; July 1; v. 264; p. 32.
- Leavitt, Frank M., Smithtown, assignor to E. W. Bliss  
Company, Brooklyn, N. Y. Automobile torpedo. No.  
1,308,181; July 1; v. 264; p. 32.
- Leavitt, James Q., Ogden, Utah. Universal sealing ma-  
chine for knockdown boxes and the like. No. 1,299,358;  
Apr. 1; v. 261; p. 168.
- Leavitt, James Q., Ogden, Utah. Catch. No. 1,321,927;  
Nov. 18; v. 268; p. 410.
- Leavitt, John E., Boston, Mass. Traction device for  
wheels. No. 1,293,814; Feb. 11; v. 259; p. 226.
- Leavitt, John E., Boston, Mass. Traction device. No.  
1,294,123; Feb. 11; v. 259; p. 299.
- Leavitt Machine Company, The. (See Dexter, Fred  
A. and B. P., assignors.)
- Lebby, States L., Charleston, S. C. Hydroplane-boat. No.  
1,312,036; Aug. 5; v. 265; p. 35.
- Lebel, Arthur C., Biddeford, Me. Elevator attachment.  
No. 1,303,685; May 13; v. 262; p. 253.
- Lebensart, Salomon, Charlottenburg, Germany. Apparatus  
for rolling up paper or the like. No. 1,302,934; May 6;  
v. 262; p. 86.
- Leblanc, Felix, St. Adolphe, Manitoba, Canada. Skate-  
fastener. No. 1,312,739; Aug. 12; v. 265; p. 198.
- Leblanc, Ferdinand L., Paris, France. Apparatus for ig-  
niting grenades. No. 1,307,684; June 24; v. 263; p.  
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- Leblanc, Maurice. (See Van Deuren, Delas, and Leblanc.)
- Lebovitz, Max, Brooklyn, N. Y. Woman's undergarment.  
No. 1,297,481; Mar. 18; v. 260; p. 435.
- Lebow, Simon, Bellaire, Ohio. Device for smoothing and  
sizing pipe. No. 1,312,333; Aug. 5; v. 265; p. 89.
- Lebowitz, William, Brooklyn, N. Y. Buckle. No.  
1,325,948; Dec. 23; v. 269; p. 635.
- Lechay, Albert, and C. E. Larson, assignors to Marvel  
Machinery Company, Minneapolis, Minn. Cutter-head  
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- Lechtenberg, Clemens, assignor to Rock Island Plow Com-  
pany, Rock Island, Ill. Hay gatherer and loader. No.  
1,309,861; July 15; v. 264; p. 408.
- Leckey, Alexander, Camden, N. J., and G. W. Daymon,  
Philadelphia, Pa. Vehicle direction-indicator and sig-  
nal. No. 1,296,094; Mar. 4; v. 260; p. 63.
- Leckey, Alexander, Camden, N. J. Water-top for gas-  
stoves. No. 1,298,740; Apr. 1; v. 261; p. 28.
- Leckey, John J., Brooklyn, N. Y. Slipper-holder. No.  
1,326,749; Dec. 30; v. 269; p. 822.
- Leckinger, Philip H., assignor to The High Speed Ham-  
mer Company, Inc., Rochester, N. Y. Riveting ma-  
chine or hammer. No. 1,298,741; Apr. 1; v. 261; p.  
28.
- Leclercq, Edmond, Haine-St.-Paul, Belgium. Car-truck.  
No. 1,322,587; Nov. 25; v. 268; p. 586.



- Lecomte, Alfred. (See Gourju, Alexandre, assignor.)  
 Lecourt, Georges. (See Blais and Lecourt.)  
 Lecoutre, Auguste J., assignor to Royal Worcester Corset Co., Worcester, Mass. Corset. No. 1,304,891; May 27; v. 262; p. 556.  
 Lecone, John P., York, Pa. Signal-carrying funnel. No. 1,316,167; Sept. 16; v. 266; p. 333.  
 Ledan, Josiah, Hannibal, Mo. Lifting device. No. 1,301,284; Apr. 22; v. 261; p. 677.  
 Ledanois, Julien F., Billancourt, France. Sparking plug for explosion-motors in general. No. 1,307,910; June 24; v. 263; p. 593.  
 Lederer, Clarence C., Foster, Nebr. Hand-lever mechanism for cultivators. No. 1,304,783; May 27; v. 262; p. 536.  
 Lederer, Frederick B. (See Lederer, Friedrich and F. B.)  
 Lederer, Friedrich and F. B., Milwaukee, Wis. Automobile-bumper. No. 1,307,056; June 17; v. 263; p. 406.  
 Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Adjustable handle-bar for velocipedes. No. 1,320,070; Oct. 28; v. 267; p. 568.  
 Ledig, Richard G., and N. Gerson, assignors, to A. Mecky Company, Philadelphia, Pa. Guard for electric heaters. No. 1,305,130; May 27; v. 262; p. 600.  
 Ledig, Richard G. and R. C., and N. Gerson, assignors to A. Mecky Company, Philadelphia, Pa. Electric heating and lighting apparatus. No. 1,292,335; Jan. 21; v. 258; p. 612.  
 Ledig, Richard G. and R. C., and N. Gerson, assignors to A. Mecky Company, Philadelphia, Pa. Electric heating and lighting apparatus. No. 1,310,952; July 22; v. 264; p. 638.  
 Ledig, Robert C. (See Ledig and Gerson.)  
 Ledward, Frederick A., Detroit, Mich. Detachable hinge. No. 1,301,461; Apr. 22; v. 261; p. 711.  
 Ledwidge, Christopher J., Hot Springs, Ark. Vehicle-signal. No. 1,314,407; Aug. 26; v. 265; p. 568.  
 Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Corporation, Philadelphia, Pa. Retaining device for wheel-hub caps. No. 1,299,359; Apr. 1; v. 261; p. 168.  
 Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Pressed-steel wheel. No. 1,299,360; Apr. 1; v. 261; p. 169.  
 Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Sheet-metal wheel. No. 1,311,979; Aug. 5; v. 265; p. 24.  
 Ledwinka, Joseph, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company. Removable cushion for vehicles. No. 1,321,458; Nov. 11; v. 268; p. 272.  
 Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Electrode-locking device for electric welding-machines. No. 1,326,601; Dec. 30; v. 269; p. 794.  
 Lee, Albert P., assignor to Lee Loader & Body Co., Chicago, Ill. Dumping-hopper. No. 1,325,495; Dec. 16; v. 269; p. 533.  
 Lee, Bernard S., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing-machine. No. 1,313,704; Aug. 19; v. 265; p. 400.  
 Lee, Charles J., et al. (See Newbauer, Faltine, assignor.)  
 Lee, Charles L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Ticket-issuing mechanism. No. 1,299,742; Apr. 8; v. 261; p. 284.  
 Lee, Clifford. (See Worley, Trowbridge, Wurttemberg, and Lee.)  
 Lee, Datus S., Los Angeles, Calif. Direction-indicator for motor-vehicles. No. 1,299,966; Apr. 8; v. 261; p. 334.  
 Lee, Earle P., assignor to North East Electric Company, Rochester, N. Y. Ignition-coil. No. 1,307,867; June 24; v. 263; p. 586.  
 Lee, Earle P. and T. L., assignors to North East Electric Company, Rochester, N. Y. Ignition-coil. No. 1,299,585; Apr. 8; v. 261; p. 248.  
 Lee, Edward A., Colville, Wash. Attachment for shingle-cutting machines. No. 1,293,481; Feb. 4; v. 259; p. 117.  
 Lee, Elmer J., and E. H. Steinmetz, Bangor, Pa. Brake-band. No. 1,302,680; May 6; v. 262; p. 38.  
 Lee, Frank A., Cincinnati, Ohio, and F. G. Rose, Dayton, Ky., assignors to The John Church Company, Cincinnati, Ohio. Phonograph. No. 1,303,686; May 13; v. 262; p. 253.  
 Lee, Frank W., Spokane, Wash. Fountain-pen. No. 1,325,443; Dec. 16; v. 269; p. 523.  
 Lee, George W. (See Sorenson and Lee.)  
 Lee, Hans, Iowa City, Iowa. Potato-peeler. No. 1,309,951; July 15; v. 264; p. 425.  
 Lee, Harry, and E. H. Hansen, Livingston, Mont. Continuous draw-bar. No. 1,320,011; Oct. 28; v. 267; p. 557.  
 Lee, Harry A., et al. (See Dickerson, Arthur, assignor.)  
 Lee, Harry G., Tacoma, Wash. Revolving grate. No. 1,320,481; Nov. 4; v. 268; p. 23.  
 Lee, Harry G., assignor of one-half to A. G. Prichard, Tacoma, Wash. Automatic stoker. No. 1,311,524; July 29; v. 264; p. 779.  
 Lee, Homer, New York, N. Y. Intaglio print. No. 1,299,484; Apr. 8; v. 261; p. 226.  
 Lee, Howard R., and K. R. Cochran, San Francisco, Calif. Combined fire-extinguisher and salvaging device. No. 1,320,012; Oct. 28; v. 267; p. 557.  
 Lee, Hugh W., assignor to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Pedestal gun-mounting. No. 1,312,037; Aug. 5; v. 265; p. 35.  
 Lee, Ira, Seattle, Wash. Dental appliance. No. 1,317,980; Oct. 7; v. 267; p. 61.  
 Lee, Jacob J., Agate, N. D. Wrench. No. 1,291,940; Jan. 21; v. 258; p. 516.  
 Lee, Jacob M., and H. G. Halverson, Stoughton, Wis. Truck-support for implement-tongues. No. 1,303,075; May 6; v. 262; p. 113.  
 Lee, James E., assignor to The Challenge Machinery Co., Grand Haven, Mich. Non-removable printer's galley-lock. No. 1,301,952; Apr. 29; v. 261; p. 836.  
 Lee, James M. (See Fedrick and Lee.)  
 Lee, James T., Sale City, and S. T. Hobbs, Camilla, Ga. Peanut-digger. No. 1,302,568; May 6; v. 262; p. 17.  
 Lee, Jennette, Northampton, Mass. Therapeutic apparatus. No. 1,314,002; Aug. 26; v. 265; p. 490.  
 Lee, John H., and J. C. Dieckman, Rome, Ind. Grain-separator. No. 1,323,877; Dec. 2; v. 269; p. 123.  
 Lee, Leif, Youngstown, Ohio. Reel. No. 1,303,335; May 13; v. 262; p. 190.  
 Lee, Leif, assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Air-heating furnace. No. 1,319,654; Oct. 21; v. 267; p. 46.  
 Lee Loader & Body Co. (See Lee, Albert P., assignor.)  
 Lee, Nixon, Brooklyn, N. Y. Spark-plug. No. 1,320,013; Oct. 28; v. 267; p. 558.  
 Lee, Nixon, assignor to Sears-Cross Company, Brooklyn, N. Y. Grenade. No. 1,291,941; Jan. 21; v. 258; p. 516.  
 Lee, Robert E., Marietta, Ohio. Liquid-soap dispenser. No. 1,325,567; Dec. 23; v. 269; p. 564.  
 Lee, Robert W., Brooklyn, N. Y., assignor to Pyrene Manufacturing Company. Fire-extinguisher. No. 1,308,546; July 1; v. 264; p. 98.  
 Lee, Royal B., San Diego, Calif. Tire-holding device. No. 1,320,769; Nov. 4; v. 268; p. 77.  
 Lee S. Smith & Son. (See Vogt, Clarence C., assignor.)  
 Lee, Thomas L. (See Lee, Earle P. and T. L.)  
 Lee, Ulysses G., Chicago, Ill. Bookcase. No. 1,307,261; June 17; v. 263; p. 442.  
 Lee, William, Galveston, Tex. Window-shade-operating lever. No. 1,297,875; Mar. 18; v. 260; p. 520.  
 Lee, William A. (See Laughran and Alarie, assignors.)  
 Lee, William D., Oakland, Calif. Bolt and nut lock. No. 1,306,600; June 10; v. 263; p. 288.  
 Lee, William H., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Plowshare. No. 1,292,336; Jan. 21; v. 258; p. 613.  
 Lee, William H., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Harrow-tooth. No. 1,308,635; July 1; v. 264; p. 115.  
 Lee, William L., Helena, Mont. Paper-holder. No. 1,310,242; July 15; v. 264; p. 477.  
 Leeberg, Edward, Roselle, N. J. Flexible shaft. No. 1,309,073; July 8; v. 264; p. 225.  
 Leech, Joseph P., Buffalo, N. Y. Expanding-reamer. No. 1,296,536; Mar. 4; v. 260; p. 161.  
 Leeds, Loring L., Short Hills, N. J., assignor to F. M. Needham, Chicago, Ill. Recorder and reproducer for talking-machines. No. 1,296,975; Mar. 11; v. 260; p. 298.  
 Leeds & Northrop Company. (See Smith, Irving B., assignor.)  
 Leeds & Northrop Company. (See Smith and Cary, assignors.)  
 Leedy Manufacturing Company. (See Wanamaker, Charles B., assignor.)  
 Leedy Manufacturing Company. (See Winterhoff, Herman E., assignor.)  
 Leefeld, Rufus F., assignor to Exchange By-Products Company, Corona, Calif. Fruit-pulp extractor. No. 1,304,892; May 27; v. 262; p. 556.  
 Leeming, George W., Birmingham, Ala. Wind-shield shade. No. 1,290,588; Jan. 7; v. 258; p. 138.  
 Leeper, Albert S., Kent, Wash. Hollow block and wall construction. No. 1,290,589; Jan. 7; v. 258; p. 138.  
 Leeper, Isaac W., Des Moines, Iowa. Hog-oiler. No. 1,318,159; Oct. 7; v. 267; p. 95.  
 Lees, Edgar, and H. W. Ridsdale, assignors to The Whitehead Torpedo Works (Weymouth) Limited, Weymouth, England. Net-cutter of automobile torpedoes. No. 1,309,252; July 8; v. 264; p. 258.  
 Lees, Ernest J., Cleveland, assignor, by mesne assignments, to H. T. Bradner, Gates Mills, Ohio. Arbor-support. No. 1,296,821; Mar. 11; v. 260; p. 262.  
 Leese, Thaddeus S., Avalon, Pa., assignor of one-half to H. L. Holmes, Geneva, N. Y. Fluid-regulating valve. No. 1,314,003; Aug. 26; v. 265; p. 490.  
 Lefeber, John J., Calvary, Wis. Hammer. No. 1,302,184; Apr. 29; v. 261; p. 879.  
 Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Gun. No. 1,303,336; May 13; v. 262; p. 190.  
 Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Gun. No. 1,323,640; Dec. 2; v. 269; p. 78.



## Alphabetical list of patentees—Continued.

- Lefevre, Charles A., Pontiac, Mich. Can-opener. No. 1,324,455; Dec. 9; v. 269; p. 278.
- Leffler, Arthur. (See Cassel, Gunnar E., assignor.)
- Leffler, Arthur L. O. A. (See Cassel, Gunnar E., assignor.)
- Lemmer, Charles, Brooklyn, N. Y. Container. No. 1,303,687; May 13; v. 262; p. 253.
- Lemmer, Marshall. (See Turner, Lemmer and Douglas.)
- Lemmer, Ralph R., Chicago, Ill. Reinforced-concrete ship and constructing same. No. 1,305,379; June 3; v. 263; p. 28.
- Leffingwell, Frank D., Montclair, N. J. Subaqueous tunneling. No. 1,298,742; Apr. 1; v. 261; p. 29.
- Lefkowitz, Lewis, Danville, Va. Bobbin control. No. 1,302,936; May 6; v. 262; p. 87.
- Lefler, Charles M., Winston, Mont. Grain-elevator. No. 1,301,142; Apr. 22; v. 261; p. 648.
- Lefler, Leonard L., Hayti, Mo. Pencil-holder. No. 1,321,831; Nov. 18; v. 268; p. 393.
- Lefrancois, Louis A., San Francisco, Calif. Combined toaster and boiler-support. No. 1,321,318; Nov. 11; v. 268; p. 245.
- Leger, Zenon P., Moncton, New Brunswick, Canada. Wheel-locking device. No. 1,302,681; May 6; v. 262; p. 38.
- Legg, Andrew C., Birmingham, Ala., assignor to Legg Meat Curing Company. Smoke-generator. No. 1,302,682; May 6; v. 262; p. 38.
- Legg, Joseph W., Worcester, Mass. Projection light unit. No. 1,325,254; Dec. 16; v. 269; p. 489.
- Legg Meat Curing Company. (See Legg, Andrew C., assignor.)
- Legg, William H., Toronto, Ontario, Canada. Oil-burner. No. 1,296,822; Mar. 11; v. 260; p. 262.
- Leggett, Herbert, assignor to Eclipse Valve Grinder Company, Kansas City, Mo. Power-transmission shaft. No. 1,315,782; Sept. 9; v. 266; p. 247.
- Leggett, Joseph P., Carthage, Mo. Spring bed-bottom and manufacture of the same. No. 1,313,902; Aug. 26; v. 265; p. 470.
- Leggitt, Ira S., Hallock, Minn. Hay-stacker. No. 1,311,451; July 29; v. 264; p. 765.
- Lehew, George V., Akron, Ohio. Coupling. No. 1,290,590; Jan. 7; v. 258; p. 139.
- Lehigh Pulverizer Mill Company. (See Hachtmann, Andrew P., assignor.)
- Lehman, Albertus J., and G. J. Lexa, Milwaukee, Wis. Tractor. No. 1,322,028; Nov. 18; v. 268; p. 429.
- Lehman, Charles H., New York, N. Y., assignor, by mesne assignments, to Dictograph Products Corporation. Telephone set. No. 1,314,819; Sept. 2; v. 266; p. 64.
- Lehman, George B. and R. S., North Liberty, Ind. Engine starting mechanism. No. 1,316,168; Sept. 16; v. 266; p. 333.
- Lehman, Howard O., Barberton, Ohio. Tool-holder. No. 1,320,698; Nov. 4; v. 268; p. 63.
- Lehman, Joseph H. (See Klopfer, Frederick M., assignor.)
- Lehman, Joseph H., Hasbrouck Heights, N. J. Combination timer, distributor, and induction-coil apparatus. (Reissue.) No. 14,646; May 13; v. 262; p. 283.
- Lehman, Joseph H., Hasbrouck Heights, N. J. Electric make-and-break device. No. 1,311,902; Aug. 5; v. 265; p. 10.
- Lehman, Ralph S. (See Lehman, George B. and R. S.)
- Lehman, William H., Portland, Ore. Trolley-wire coupling. No. 1,324,678; Dec. 9; v. 269; p. 320.
- Lehmann, Adolph, assignor to M. Crist, Hicksville, N. Y. Automatic alarm-valve. No. 1,309,362; July 8; v. 264; p. 278.
- Lehmann, Eduard, Zurich, Switzerland. Washing and rinsing machine. No. 1,296,823; Mar. 11; v. 260; p. 262.
- Lehmann, Lawrence L., Dayton, Ohio. Headlight for automobiles. No. 1,309,952; July 15; v. 264; p. 425.
- Lehosky, Julius, Glenfield, N. J. Life-saving boat. No. 1,298,360; Mar. 25; v. 260; p. 647.
- Lehr, Edwin, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus for induction-motors. No. 1,303,337; May 13; v. 262; p. 190.
- Lehr, Edwin, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Furnace-regulator system. No. 1,320,071; Oct. 23; v. 267; p. 568.
- Lehr, Edwin, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller for transformers. No. 1,326,354; Dec. 30; v. 269; p. 747.
- Lehr, Edwin, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric relay. No. 1,326,355; Dec. 30; v. 269; p. 747.
- Leibbrand, Fred L., Columbus, Ohio. Hinge-gage. No. 1,317,799; Oct. 7; v. 267; p. 26.
- Leibe, Louis H. (See Cornaglia, Victor J., assignor.)
- Leibing, William E. (See Weber, Leibing and Jacobsen.)
- Leibing, William E., assignor of one-half to A. Weber, Oakland, Calif. Dispensing-valve. No. 1,299,586; Apr. 8; v. 261; p. 249.
- Leibing, William E., assignor of one-third to A. Weber and one-third to J. D. Garrettson, Oakland, Calif. Rotary explosive-engine. No. 1,309,096; July 8; v. 264; p. 229.
- Leich, Arthur and J. S. Berner, Milwaukee, Wis. Ice-cream-sandwich machine. No. 1,309,643; July 15; v. 264; p. 368.
- Leich, Arthur C., and J. S. Berner, Milwaukee, Wis. Tray for forming and serving sandwiches. No. 1,293,482; Feb. 4; v. 259; p. 118.
- Leich Electric Company. (See Leich, Oscar M., assignor.)
- Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Vibratory converter. No. 1,291,942; Jan. 21; v. 258; p. 516.
- Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Vibratory converter. No. 1,292,815; Jan. 28; v. 258; p. 747.
- Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Multiple rectifier. No. 1,324,742; Dec. 9; v. 269; p. 332.
- Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Multiple rectifier. No. 1,324,743; Dec. 9; v. 269; p. 332.
- Leicht, Louis, assignor of one-half to J. Walter, Yonkers, N. Y. Attachment for sleds. No. 1,304,331; May 20; v. 262; p. 411.
- Leidecker, Frank W., et al. (See Leidecker, Helmoth M., assignor.)
- Leidecker, Frank W., Okmulgee, Okla. Check-valve. No. 1,325,568; Dec. 23; v. 269; p. 564.
- Leidecker, Helmoth M., Waco, Tex., assignor, by mesne assignments, of five-eighths to F. W. Leidecker and two-eighths to W. W. Jenkins and J. R. Brown, Okmulgee, Okla. Water-gage. No. 1,326,459; Dec. 30; v. 269; p. 767.
- Leigh, Alfredo G., Santiago, Chile. Aeroplane. No. 1,313,828; Aug. 19; v. 265; p. 423.
- Leigh, Thomas E. (See Cook, Leigh and Jowett.)
- Leigh, William, Coraopolis, Pa. Vita-meter. No. 1,317,375; Sept. 30; v. 266; p. 645.
- Leighton, Albert, Latrobe, Pa. Buckle. No. 1,297,368; Mar. 18; v. 260; p. 412.
- Leighton, John W., assignor to Pressed Metals, Limited, Toronto, Ontario, Canada. Forming billets or blooms for forming tubes by extrusion. No. 1,310,123; July 15; v. 264; p. 455.
- Leighton, John W., and O. J. P. Crick, assignors to Pressed Metals, Limited, Toronto, Ontario, Canada. Means for forming tubular articles by extrusion. No. 1,310,122; July 15; v. 264; p. 455.
- Leighty, John R., Kansas City, Mo., and B. E. Ahlskog; said Ahlskog assignor to Folwell-Ahlskog Company, Chicago, Ill. Engine-house. No. 1,307,504; June 24; v. 263; p. 520.
- Leiman, George W. (See Leiman, William H. and G. W.)
- Leiman, William H. and G. W., Newark, N. J. Rotary pump. No. 1,290,251; Jan. 7; v. 258; p. 58.
- Leiman, William H. and G. W., Newark, N. J. Sand-blast machine. No. 1,313,306; Aug. 19; v. 265; p. 325.
- Leimbach, John P., Baltimore, Md. Work-holding clamp. No. 1,306,433; June 10; v. 263; p. 258.
- Leimberger, Robert C. (See Konerman and Leimberger.)
- Leinert, Wenzel, New York, N. Y. Liquid-weighing apparatus. No. 1,319,478; Oct. 21; v. 267; p. 434.
- Leininger, Leonard J. (See Suwalski, Leininger, and Wilson.)
- Leinweber, Curtis H., et al., executors. (See Leinweber, Frederick H.)
- Leinweber, Frederick H., deceased, Chicago, Ill.; C. H., W. H., and V. H. Leinweber, executors. Internal-combustion engine. No. 1,296,672; Mar. 11; v. 260; p. 228.
- Leinweber, Frederick H., deceased, Chicago, Ill.; C. H., W. H., and V. H. Leinweber, executors. Exhaust-valve mechanism for internal-combustion engines. No. 1,296,673; Mar. 11; v. 260; p. 228.
- Leinweber, Victor H., et al., executors. (See Leinweber, Frederick H.)
- Leinweber, William H., et al., executors. (See Leinweber, Frederick H.)
- Leipert, August H. (See Hewitt and Leipert.)
- Leisenring, John, Springfield, Ill., assignor to Westinghouse Electric and Manufacturing Company. Trolley-hanger. No. 1,303,688; May 13; v. 262; p. 254.
- Leissner, Harry F., Ljusne, Sweden. Coupling. No. 1,315,848; Sept. 9; v. 266; p. 260.
- Leissner, William. (See Wagner, Henry H., assignor.)
- Leist, Jacob H., Portland, Ore. Gasifier for gas-engines. No. 1,301,066; Apr. 15; v. 261; p. 597.
- Leitch, Frederick J., Belfast, Ireland. Means for separating seed-pods or the like from stalks of plants. No. 1,309,207; July 8; v. 264; p. 249.
- Leitch, John H., Detroit, Mich. Fuel-gage. No. 1,304,069; May 20; v. 262; p. 362.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Lubricating means for centrifugal separators. No. 1,305,813; June 3; v. 263; p. 110.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Machine-base. No. 1,309,899; July 15; v. 264; p. 415.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine claw. No. 1,316,582; Sept. 23; v. 266; p. 461.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Feed-controlling float-valve. No. 1,316,583; Sept. 23; v. 266; p. 461.
- Leitch, Meredith, Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Milking-machine pulsator. No. 1,322,588; Nov. 25; v. 268; p. 586.



- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine pulsator. No. 1,322,589; Nov. 25; v. 268; p. 587.
- Leitch, Roy C., Newton, assignor of one-eighth to C. D. Blackman, Dodge City, one-eighth to W. Peters, and one-eighth to A. E. Purcell, Newton, Kans. Grain-car door. No. 1,308,791; July 8; v. 264; p. 171.
- Leitch, Roy C., Kansas City, Mo. Hat-check and holder therefor. No. 1,308,792; July 8; v. 264; p. 172.
- Leith, Alexander B. (See Arney, John W., assignor.)
- Leitman, Louis, Mount Vernon, N. Y. Water-flow alarm. No. 1,306,154; June 10; v. 263; p. 204.
- Leitner, Henry, Westminster, London, and W. H. Exley, Woking, England. Electric-accumulator plate. No. 1,305,814; June 3; v. 263; p. 110.
- Lektophone Corporation. (See Davis and Joss, assignors.)
- Lektophone Corporation. (See Joss, Frederick E., assignor.)
- Leland, Edward D., assignor of one-half to F. Uhlenhaut, Jr., Pittsburgh, Pa. Gas-burner. No. 1,322,249; Nov. 18; v. 268; p. 470.
- Leland Lock Company. (See Stanley, Theodore D., assignor.)
- Leland, Raguvaid, Birch Hills, Saskatchewan, Canada. Stamp for simulating animal-tracks. No. 1,314,276; Aug. 26; v. 265; p. 543.
- Leland, Sanford D., Wellesley Hills, assignor to Manufacturing Equipment & Engineering Company, Framingham, Mass. Washbowl construction. No. 1,323,398; Dec. 2; v. 269; p. 33.
- Leland, Thorstein, Ernfold, Saskatchewan, Canada. Spring catch and hook. No. 1,293,483; Feb. 4; v. 259; p. 118.
- Lely, Dirk, Jr. (See Hamburger and Lely.)
- Lemaire, Emmanuel, Mons, Belgium. Safety-cartridge for mining purposes. No. 1,310,666; July 22; v. 264; p. 586.
- Lemaire, Louis. (See Boucard and Lemaire.)
- Leman, Edward J., Morton, Ill. Lifting-jack. No. 1,310,498; July 22; v. 264; p. 555.
- Leman, Edward J., Morton, Ill. Jack. No. 1,310,499; July 22; v. 264; p. 555.
- Lemaster, Maurice D., assignor to The Wolf Company, Chambersburg, Pa. Automatic safety device for employees' elevators. No. 1,318,211; Oct. 7; v. 267; p. 105.
- Leming, Frank, Hingham, Mass. Press for assembling shells. No. 1,302,185; Apr. 29; v. 261; p. 879.
- Lemiszcak, Harry, Yonkers, N. Y. Antisubmarine device. No. 1,294,920; Feb. 18; v. 259; p. 520.
- Lemke, Charles M., assignor to E. A. Kickhafer, Milwaukee, Wis. Spring-hinge. No. 1,302,569; May 6; v. 262; p. 17.
- Lemma, Orvil G., Seattle, Wash. Trunk. No. 1,292,490; Jan. 28; v. 258; p. 670.
- Lemma, Gustave E., Cleveland, Ohio. Railway-roundhouses and track lay-outs therefor. No. 1,325,021; Dec. 16; v. 269; p. 445.
- Lemoine, David, and G. P. Fournier, Whitinsville, Mass. Spindle. No. 1,294,493; Feb. 18; v. 259; p. 421.
- Lemoine, David, and G. P. Fournier, Whitinsville, Mass. Bobbin-driving device for spindles. No. 1,294,494; Feb. 18; v. 259; p. 421.
- Lemoine, Louis R., Philadelphia, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Molding apparatus. No. 1,299,967; Apr. 8; v. 261; p. 334.
- Lemoine, Louis R., Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Molding appliance. No. 1,302,816; May 6; v. 262; p. 63.
- Lemon, Clayton L. (See Ash, Jesse E., assignor.)
- Lemon, Samuel H., Harrisburg, Pa. Desk attachment for supporting type-writers. No. 1,318,677; Oct. 14; v. 267; p. 255.
- Lemons, Charles R., assignor to J. W. Lemons, Pearce, Ariz. Toy. No. 1,302,289; Apr. 29; v. 261; p. 918.
- Lemons, George G., Prescott, Ariz. Means for raising sunken vessels. No. 1,296,824; Mar. 11; v. 260; p. 262.
- Lemons, James W. (See Lemons, Charles R., assignor.)
- Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Controlling means for engine-generator-driven vehicles. No. 1,313,097; Aug. 12; v. 265; p. 269.
- Lemp, Hermann, Erie, Pa., assignor to General Electric Company. Electrically-operated fuel-valve. No. 1,323,778; Dec. 2; v. 269; p. 104.
- Lenard, Ferdinand, Chicago, Ill. Reclining-chair. No. 1,320,014; Oct. 28; v. 267; p. 558.
- Lenderoth, Arnold W. (See Fox and Lenderoth.)
- Lenders, Adolph W. H., assignor to Douglas Company, Cedar Rapids, Iowa. Manufacturing dextrans, gums, and modified starches. No. 1,305,291; June 3; v. 263; p. 12.
- Lenfesty, Gerald T. D., assignor of one-third to E. R. Case, Toronto, Ontario, Canada. Demountable motor-vehicle frame. No. 1,313,429; Aug. 19; v. 265; p. 348.
- Lenke, Edward, Cuyahoga Falls, assignor to F. T. Lahey, Akron, Ohio. Collapsible box. No. 1,317,140; Sept. 23; v. 266; p. 564.
- Lenker, Frank K., Millersburg, Pa. Means for locking the blades of reamers or cutters. No. 1,320,482; Nov. 4; v. 268; p. 23.
- Lenko, Mike, Minburn, Alberta, Canada. Door-operating device. No. 1,297,702; Mar. 18; v. 260; p. 483.
- Lennon, Roy A. (See Camp, Orrin B., assignor.)
- Lent, Wilmar F. (See Mortensen and Lent.)
- Lent Wilmar F., New Haven, Conn., assignor to The Greist Manufacturing Company. Grease-cup. No. 1,318,392; Oct. 14; v. 267; p. 201.
- Lent, Wilmar F., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,311,567; July 29; v. 264; p. 786.
- Lentatz, Ambrose, West Hoboken, N. J. Tool-holder for grinding thread-cutting tools. No. 1,308,430; July 1; v. 264; p. 77.
- Lenz, August H., Fond du Lac, Wis. Attachment for grinding thread-tool bits. No. 1,304,070; May 20; v. 262; p. 362.
- Lenz, Rose A. (See Pettibone and Lenz.)
- Lenz, William A., Lebanon, Mo. Photoprint-washer. No. 1,313,395; Aug. 19; v. 265; p. 342.
- Leo Shapiro & Company. (See Bell, Mark J., assignor.)
- Leon, Karl O., Stockholm, Sweden. Ball-bearing. No. 1,305,131; May 27; v. 262; p. 601.
- Leon, William, Seattle, Wash. Burglar-trap. No. 1,300,981; Apr. 15; v. 261; p. 577.
- Leonard, Alvin, Carbondale, Pa. Workman's collapsible trestle or table. No. 1,312,994; Aug. 12; v. 265; p. 249.
- Leonard, Carolyn G., administratrix. (See Leonard, Harry W.)
- Leonard, George I., assignor to Leonard Pump and Motor Co., Chicago, Ill. Electrically-controlled apparatus. No. 1,296,976; Mar. 11; v. 260; p. 298.
- Leonard, George I., Chicago, Ill., assignor to Leonard Valveless Engine Company. Structure formed of materials having different coefficients of expansion. No. 1,304,993; May 27; v. 262; p. 575.
- Leonard, Harold R., Stillwater, Minn. Holder for milk-record cards. No. 1,317,202; Sept. 30; v. 266; p. 612.
- Leonard, Harry A., assignor to Draper Corporation, Hopedale, Mass. Spinning or winding machine. No. 1,304,893; May 27; v. 262; p. 556.
- Leonard, Harry A., assignor to Draper Corporation, Hopedale, Mass. Spinning or winding machine. No. 1,315,973; Sept. 16; v. 266; p. 298.
- Leonard, Harry W., deceased, Bronxville, N. Y.; C. G. Leonard, administratrix, assignor to H. Ward Leonard Incorporated. Method and means for controlling electric energy. No. 1,298,974; Apr. 1; v. 261; p. 83.
- Leonard, Harry W., deceased; C. G. Leonard, administratrix, Bronxville, N. Y., assignor to H. Ward Leonard, Incorporated. Electric controlling means. No. 1,302,817; May 6; v. 262; p. 64.
- Leonard, Howard G., Jackson, Mich. Differential. No. 1,312,856; Aug. 12; v. 265; p. 221.
- Leonard, Howard M., Jackson, Mich. Tractor. No. 1,293,815; Feb. 11; v. 259; p. 226.
- Leonard, John E., Los Angeles, Calif. Shutter-dissolve for motion-picture cameras. No. 1,297,703; Mar. 18; v. 260; p. 483.
- Leonard, John E., Los Angeles, Calif. Finder in combination with camera-shifting mechanisms for focusing. No. 1,297,704; Mar. 18; v. 260; p. 483.
- Leonard, John E., Los Angeles, Calif. White-dissolve mechanism for motion-picture cameras. No. 1,298,521; Mar. 25; v. 260; p. 684.
- Leonard, Patrick A., M. F. Maloney, and E. Fandrich, Schenectady, N. Y. Fluid-pressure apparatus for burning powdered fuel. No. 1,305,726; June 3; v. 263; p. 94.
- Leonard Pump and Motor Co. (See Leonard, George I., assignor.)
- Leonard, Roy E., Los Angeles, Calif., assignor of one-half to F. W. A. Finley, Pittsburgh, Pa. Expandable well-casing. No. 1,301,285; Apr. 22; v. 261; p. 677.
- Leonard Valveless Engine Company. (See Leonard, George I., assignor.)
- Leonard, William F., Columbus, Ohio. Toy vehicle. No. 1,296,977; Mar. 11; v. 260; p. 298.
- Leonard, William H., and S. V. Johnson, assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo. Tool-retainer. No. 1,307,911; June 24; v. 263; p. 594.
- Leonard, William L. and J. E. Myers, Altoona, Pa. Cross-head-pin. No. 1,321,111; Nov. 11; v. 268; p. 205.
- Leonardi, Giulio, Long Island City, N. Y. Safety gas-jet. No. 1,309,482; July 8; v. 264; p. 300.
- Leonis, Christofer G., Rocky Ford, Colo. Separating sodium and potassium salts. No. 1,302,937; May 6; v. 262; p. 87.
- Leonowicz, Bronislaw, Jersey City, N. J. Gramophone. No. 1,315,974; Sept. 16; v. 266; p. 298.
- Leopold, Frederick B., assignor to Pittsburgh Filter & Engineering Company, Pittsburgh, Pa. Device for feeding granulated or pulverized materials. No. 1,324,508; Dec. 9; v. 269; p. 288.
- Leopold, George O. (See Fezley and Leopold.)
- Leopage, Germain, Tiverton, R. I., assignor of one-half to himself and one-half to J. P. Le Page. Loom-temple. No. 1,324,163; Dec. 9; v. 269; p. 221.



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- Leparmontier, Edouard E. F., Dieppe, France. Barge. No. 1,303,689; May 13; v. 262; p. 254.
- Leparmontier, Edouard E. F., Dieppe, France. Compound barge. No. 1,303,690; May 13; v. 262; p. 254.
- Leppers, Pierre, Lyon, France. Separating metaxylene from xylene substances. No. 1,311,848; July 29; v. 264; p. 838.
- Lepley, Daniel F., Connellsville, Pa. Inclined-hoist control. No. 1,294,124; Feb. 11; v. 259; p. 299.
- Lepley, Daniel F., Connellsville, Pa. Machine element. No. 1,294,125; Feb. 11; v. 259; p. 299.
- Lepley, Daniel F., Connellsville, Pa. Ventilating apparatus for mines. No. 1,297,191; Mar. 11; v. 260; p. 345.
- Lepley, Daniel F., Connellsville, Pa. Mine-skip. No. 1,304,784; May 27; v. 262; p. 536.
- Lepley, Daniel F., Connellsville, Pa. Ventilating apparatus. No. 1,326,673; Dec. 30; v. 269; p. 808.
- Lepper, John H., Mason City, Iowa. Electrical priming-vaporizer. No. 1,297,369; Mar. 18; v. 260; p. 412.
- Lerch, Fred, Virginia, Minn. Mechanical shovel. No. 1,307,448; June 24; v. 263; p. 510.
- Lerch, William G., assignor to Miller Rubber Company, Akron, Ohio. Reed. No. 1,313,705; Aug. 19; v. 265; p. 400.
- Lernowitz, Joseph, assignor to Fifth Avenue Corset Company, Inc., New York, N. Y. Front-lace corset. No. 1,292,491; Jan. 28; v. 258; p. 670.
- Leroux, Henri, assignor to la Societe d'Eclairage Chauffage et Force Motrice, Siege social, Paris, France. Production of high-percentage carbazole. No. 1,318,212; Oct. 7; v. 267; p. 106.
- Leroux, Pierre, Gennevilliers, assignor to La Societe d'Eclairage Chauffage et Force Motrice, Paris, France. Production of pure anthracene. No. 1,326,515; Dec. 30; v. 269; p. 778.
- Lescaut, Louis. (See Renault, Edgard, assignor.)
- Leschander, Austin C., Port Blakeley, Wash. Staple. No. 1,311,903; Aug. 5; v. 265; p. 10.
- Leschnik, Phillip. (See Kreuer and Leschnik.)
- Lesinski, Joseph. (See Svidor and Lesinski.)
- Lessem, Isidor, Wichita, Kans. Explosion-engine. No. 1,291,032; Jan. 14; v. 258; p. 269.
- Lessem, Isidor, Wichita, Kans. Carrier for eggs and the like. No. 1,323,074; Nov. 25; v. 268; p. 677.
- Lesseure, Jean A. (See Gourdon, Charles E. P., assignor.)
- Lesb, Benjamin W., Conneaut Lake, Pa. Rotary cultivator. No. 1,320,875; Nov. 4; v. 268; p. 97.
- Leshner, Earl W., Lakewood, Ohio, assignor, by mesne assignments, to The Advance Manufacturing Company, Detroit, Mich. Blank-feeding mechanism. No. 1,295,773; Feb. 25; v. 259; p. 739.
- Lesko, James F. (See Matha and Lesko.)
- Lesley, Robert W., Haverford, Pa. Apparatus for the manufacture of Portland cement. No. 1,323,293; Dec. 2; v. 269; p. 13.
- Lesley, Robert W., Haverford, Pa. Utilization of low-grade carboniferous material. No. 1,323,294; Dec. 2; v. 269; p. 13.
- Leslie, Arthur E., Sparr, Fla. Fraction-chart. No. 1,292,816; Jan. 28; v. 258; p. 748.
- Leslie, Benjamin J., Chicago, Ill. Vehicle-fender. No. 1,326,204; Dec. 30; v. 269; p. 719.
- Leslie Co., The. (See Metzger, Jules P., assignor.)
- Leslie, Eugene H., assignor to General Petroleum Corporation, Los Angeles, Calif. Method and apparatus for using reagents in the refining of petroleum-oils. No. 1,310,164; July 15; v. 264; p. 463.
- Leslie, Freeland H. (See Fessenden and Leslie.)
- Lesnikowski, Szymon H., Detroit, Mich. Wardrobe-trunk. No. 1,326,516; Dec. 30; v. 269; p. 778.
- Lester, Charles A., Winona, Minn. Lens. No. 1,308,431; July 1; v. 264; p. 77.
- Lester, Frederick A. (See Wright, William, assignor.)
- Lester, Howard W., Hartford, and A. M. Starr, East Hampton, assignors to The Post & Lester Company, Hartford, Conn. Automobile mirror-mount. No. 1,290,252; Jan. 7; v. 258; p. 58.
- Lester, John M., Philadelphia, Pa. Game apparatus. No. 1,290,761; Jan. 7; v. 258; p. 180.
- Leszczynski, Anthony. (See Leszczynski, Stanley and A.)
- Leszczynski, Stanley and A., Gary, Ind. No. 1,291,943; Jan. 21; v. 258; p. 517.
- Letendre, Napoleon, Manchester, N. H. Scissors-sharpener. No. 1,325,675; Dec. 23; v. 269; p. 584.
- Lethern, Albert A., London, England, assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Military equipment. No. 1,301,421; Apr. 22; v. 261; p. 703.
- Lethern, Albert A., London, England, assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Sling. No. 1,323,701; Dec. 2; v. 269; p. 89.
- Letieq, Sinai, Worcester, Mass. Device for joining electrical conductors. No. 1,315,317; Sept. 9; v. 266; p. 164.
- Letord, Emile, Meudon, France. Spring suspension device for indicating and registering instruments. No. 1,307,685; June 24; v. 263; p. 552.
- Letord, Emile, Meudon, France. Control mechanism for motors for aviation apparatus. No. 1,310,757; July 22; v. 264; p. 603.
- Letord, Emile, Meudon, France. Means for supporting radiators on aeroplanes. No. 1,313,195; Aug. 12; v. 265; p. 288.
- Letord, Emile, Meudon, France. Connecting member for assembling and mounting aeroplane parts. No. 1,315,561; Sept. 9; v. 266; p. 208.
- Letord, Emile, Meudon, France. Controlling-gear for aeroplanes. No. 1,316,905; Sept. 23; v. 266; p. 520.
- Letord, Emile, Seine-et-Oise, France. Bracket-seat for passengers on aerial navigation apparatus. No. 1,303,076; May 6; v. 262; p. 113.
- Letourneau, Ovila, et al. (See Guay, Adéland, assignor.)
- Létré, Philip H., North Attleboro, Mass. Rubber-shoe support. No. 1,292,817; Jan. 28; v. 258; p. 748.
- Leuckert, William, Astoria, N. Y. Combined mirror, flag, and lamp holder. No. 1,308,182; July 1; v. 264; p. 32.
- Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Machine for wrapping sweetmeats and similar articles. No. 1,320,699; Nov. 4; v. 268; p. 63.
- Leumann, Richard, assignor to the Firm of Sapal Société Anonyme des Filieuses Automatiques, Lausanne, Switzerland. Glue-applying apparatus for labels, wrappers, and the like. No. 1,313,098; Aug. 12; v. 265; p. 269.
- Leupold, Alfred A., Pambrum, Saskatchewan, Canada. Light-circuit controller for automobiles. No. 1,291,944; Jan. 21; v. 258; p. 517.
- Lieurquin, Jules, Uccle-Stalle, Brussels, Belgium. Reproducing pictorial, artistic, and graphic works. No. 1,304,071; May 20; v. 262; p. 362.
- Leustig, Benno B., Cleveland, Ohio. Rail-holding means. No. 1,293,816; Feb. 11; v. 259; p. 227.
- Leustig, Benno B., Cleveland, Ohio. Life-preserving apparatus for aeroplanes. No. 1,317,511; Sept. 30; v. 266; p. 671.
- Leustig, Benno B., Cleveland, Ohio. Flexible metal casing for laminated springs. No. 1,319,349; Oct. 21; v. 267; p. 409.
- Leustig, Benno B., Cleveland, Ohio. Traffic-signal for motor-vehicles. No. 1,323,295; Dec. 2; v. 269; p. 14.
- Ley, Mark Jr., Los Angeles, Calif. Can-opener. No. 1,307,301; June 17; v. 263; p. 449.
- Levaire, Edmond F., Paris, France. Manufacture of metal sleepers for railways. No. 1,316,049; Sept. 16; v. 266; p. 311.
- Levalley, Christopher W., assignor to Chain Belt Company, Milwaukee, Wis. Apparatus for delivering and distributing material. No. 1,310,243; July 15; v. 264; p. 477.
- Levanseler, Frank E., Chicago, Ill. Support for hinged covers or members. No. 1,324,600; Dec. 9; v. 269; p. 306.
- Levanseler, Frank E., Chicago, Ill. Support for hinged covers or members. No. 1,324,601; Dec. 9; v. 269; p. 306.
- Leve, Marcus S., Oakland, assignor to L. B. De Laitte, San Francisco, Calif. Device for measuring liquids. No. 1,299,743; Apr. 8; v. 261; p. 285.
- Leveque, Bernard T., Wenham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Button-attaching machine. No. 1,290,253; Jan. 7; v. 258; p. 58.
- Leveque, Bernard T., Wenham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Insole-heel-seat-smoothing machine. No. 1,303,926; May 20; v. 262; p. 336.
- Leveque, Bernard T., Wenham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread-cutting mechanism. No. 1,317,800; Oct. 7; v. 267; p. 26.
- Leverich, Sylvester P., Marion, Iowa. Wire-grip. No. 1,312,635; Aug. 12; v. 265; p. 179.
- Levering, Wilson K., Ruxton, Md. Core-box. No. 1,301,578; Apr. 22; v. 261; p. 732.
- Levett, Alexander, New York, N. Y. Folding and gathering device. No. 1,296,409; Mar. 4; v. 260; p. 134.
- Levett, Alexander, New York, N. Y. Buffing or polishing wheel. No. 1,298,522; Mar. 25; v. 260; p. 685.
- Levey, Daniel J., Frankford, Pa. Mold. No. 1,319,779; Oct. 28; v. 267; p. 514.
- Levey, Harold A., New Orleans, La. Plastic composition and preparing the same. No. 1,295,533; Feb. 25; v. 259; p. 684.
- Levey, Harold A., New Orleans, La. Plastic composition and preparing the same. No. 1,316,311; Sept. 16; v. 266; p. 361.
- Levey, Samuel H., Chicago, Ill. Grease-gun. No. 1,296,298; Mar. 4; v. 260; p. 109.
- Levey, Thomas J., Baltimore, Md., assignor to International Cap and Sealing Machine Company. Bottle capping and sealing machine. No. 1,302,683; May 6; v. 262; p. 38.
- Levi, Louis. (See Kraus, Adalbert, assignor.)
- Levin, Bertram, Hale, England. Tanning compound. No. 1,323,878; Dec. 2; v. 269; p. 123.
- Levin, David, Buffalo, N. Y., assignor to Commercial Electrolytic Corporation, New York, N. Y. Making hydrogen peroxid. No. 1,299,485; Apr. 8; v. 261; p. 226.
- Levin, David, and L. A. Molin, Buffalo, assignors to Commercial Electrolytic Corporation, New York, N. Y. Making hydrogen peroxid. No. 1,323,075; Nov. 25; v. 268; p. 677.



- Levin, Joseph, assignor to Polan Katz & Co., Baltimore, Md. Parasol. No. 1,310,399; July 15; v. 264; p. 505.
- Levin, Matilda B., San Francisco, Calif. Loom attachment for outlet-boxes. No. 1,310,758; July 22; v. 264; p. 603.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining and loading machine. No. 1,290,591; Jan. 7; v. 258; p. 139.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Propelling mechanism for mining-machines. No. 1,290,592; Jan. 7; v. 258; p. 139.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coal-mining machine. No. 1,290,593; Jan. 7; v. 258; p. 139.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. System of motor control. No. 1,290,594; Jan. 7; v. 258; p. 140.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,290,595; Jan. 7; v. 258; p. 140.
- Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining and loading machine. No. 1,319,156; Oct. 21; v. 267; p. 373.
- Levin, Samuel. (See Arvintz, Abraham A., assignor.)
- Levin, Walter, Superior, Wis. Stovepipe-joint. No. 1,325,949; Dec. 23; v. 269; p. 635.
- Levin, Walter S., assignor to The National Safety Appliance Company, San Francisco, Calif. Automatic train signal and stop. No. 1,305,380; June 3; v. 263; p. 28.
- Levin, Walter S., assignor to The National Safety Appliance Company, San Francisco, Calif. Relay. No. 1,305,381; June 3; v. 263; p. 28.
- Levin, Walter S., assignor to The National Safety Appliance Company, San Francisco, Calif. Automatic block-signal system. No. 1,305,382; June 3; v. 263; p. 29.
- Levin, Walter S., assignor to The National Safety Appliance Company, San Francisco, Calif. Automatic block-signal system. No. 1,305,383; June 3; v. 263; p. 29.
- Levin, Walter S., assignor to The National Safety Appliance Company, San Francisco, Calif. Track-operated device for automatic block-signal systems. No. 1,305,384; June 3; v. 263; p. 29.
- Levin, Walter S., assignor to National Safety Appliance Company, San Francisco, Calif. Magnetic-field-controlling means. No. 1,320,398; Nov. 4; v. 268; p. 8.
- Levins, Harry B., Minneapolis, Minn. Holder. No. 1,311,657; July 29; v. 264; p. 803.
- Levinson, Claus, Brooklyn, N. Y. Steam-regulating valve. No. 1,296,410; Mar. 4; v. 260; p. 134.
- Levinson, Claus, Brooklyn, N. Y. Pressure check-valve. No. 1,296,411; Mar. 4; v. 260; p. 134.
- Levinson, Claus, Brooklyn, N. Y. Valve mechanism. No. 1,296,412; Mar. 4; v. 260; p. 134.
- Levinson, Claus, Brooklyn, N. Y. Steam-regulating valve. No. 1,297,193; Mar. 11; v. 260; p. 345.
- Levinson, David, New York, N. Y. Wheel. No. 1,297,876; Mar. 18; v. 260; p. 520.
- Levinson, Sims M., et al. (See Arnheim, Lewis, assignor.)
- Levis, John H., Jr., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Call-distributing telephone system. No. 1,293,817; Feb. 11; v. 259; p. 227.
- Leviton, Isidore, et al. (See Gretsche, Mark J., assignor.)
- Levitt, Arthur F. (See Bradford and Levitt.)
- Levitt, Samuel, Brooklyn, assignor to United Metal Hose Company, Inc., New York, N. Y. Pipe connection. No. 1,315,784; Sept. 9; v. 266; p. 247.
- Levy, Abraham H., New York, N. Y., assignor to Syracuse Smelting Works, Brooklyn, N. Y. Metal-cleaning apparatus. No. 1,298,229; Mar. 25; v. 260; p. 621.
- Levy, Alexander R. (See Cheek, Henry M., assignor.)
- Levy, Arthur B. (See Singer and Levy.)
- Levy, Benjamin F. (See Lepointe and Levy.)
- Levy, Frederick L. (See Murdock, Charles A., assignor.)
- Levy, Maurice. (See Sherwood, Taylor, assignor.)
- Levy, Paul, assignor to Societe Anonyme Des Trefileries Et Laminiers Du Havre Anciens Etablissements Lazare Weiller, Societe Cooperative De Rugles Et La Canalisation Electrique Reunis, Paris, France. Process and apparatus for the manufacture of tubes. No. 1,325,301; Dec. 16; v. 269; p. 498.
- Levy, William, St. Louis, Mo. Decoy. No. 1,298,361; Mar. 25; v. 260; p. 648.
- Lewinson, Albert, New York, N. Y. Self-locking container. No. 1,314,878; Sept. 2; v. 266; p. 75.
- Lewinson, Jerome, New York, N. Y. Toy figure. No. 1,314,676; Sept. 2; v. 266; p. 39.
- Lewis, Andrew L., Petersburg, Va. Vehicle-seat. No. 1,304,072; May 20; v. 262; p. 362.
- Lewis, Arthur J., Stratford, assignor to The Baird Machine Company, Bridgeport, Conn. Forming and assembling snap-fastener springs. No. 1,305,132; May 27; v. 262; p. 601.
- Lewis, Arthur J., Stratford, assignor to The Autoyre Company, Oakville, Conn. Stud member for snap-fasteners. No. 1,320,876; Nov. 4; v. 268; p. 97.
- Lewis, Barnett, New York, N. Y. Binding-strip for seat-covers. No. 1,314,408; Aug. 26; v. 265; p. 568.
- Lewis, Cyril N., Ridgefield Park, N. J., assignor to F. R. King, New York, N. Y. Electric iron. No. 1,293,818; Feb. 11; v. 259; p. 227.
- Lewis, Dean C., Philadelphia, Pa. Draftsman's pen. No. 1,314,879; Sept. 2; v. 266; p. 75.
- Lewis, Edward F. (See Denman and Lewis.)
- Lewis, Edward D., Elmira, N. Y. Hydrocarbon-burner. No. 1,299,968; Apr. 8; v. 261; p. 335.
- Lewis, Edward G. (See Daniel and Lewis.)
- Lewis, Edward Z., Chicago, Ill., assignor to The General Manifold and Printing Company, Franklin, Pa. Manifold sales-book. No. 1,322,702; Nov. 25; v. 268; p. 607.
- Lewis, Emily R., Philadelphia, Pa. Production of cyanogen compounds. No. 1,321,459; Nov. 11; v. 268; p. 272.
- Lewis, Floyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 1,307,741; June 24; v. 263; p. 563.
- Lewis, Francis J., Cheltenham, England. Bed-table. No. 1,301,953; Apr. 29; v. 261; p. 836.
- Lewis, Francis O., Bartow, Fla. Protector for flexible radiator connections. No. 1,324,316; Dec. 9; v. 269; p. 251.
- Lewis, Frank D., assignor to New Jersey Patent Company, West Orange, N. J. Catch. No. 1,290,254; Jan. 7; v. 258; p. 58.
- Lewis, Frank D., West Orange, N. J., assignor to Pathe Freres Phonograph Company, New York, N. Y. Control mechanism for phonographic apparatus. No. 1,303,927; May 20; v. 262; p. 336.
- Lewis, Frank D., West Orange, N. J., assignor, by mesne assignments, to Pathe Freres Phonograph Company, New York, N. Y. Stay-arm. No. 1,312,636; Aug. 12; v. 265; p. 179.
- Lewis, Frank M., Chicago, Ill. Differential mechanism. No. 1,292,818; Jan. 28; v. 258; p. 748.
- Lewis, Frank M., Chicago, Ill. Differential mechanism. No. 1,319,655; Oct. 21; v. 267; p. 467.
- Lewis, Frank S., Denver, Colo. Arch-support. No. 1,301,579; Apr. 22; v. 261; p. 732.
- Lewis, Fred E., Utica, N. Y. Grater. No. 1,317,628; Sept. 30; v. 266; p. 694.
- Lewis, Fredrick A., Los Angeles, Calif. Hand-tool. No. 1,324,258; Dec. 9; v. 269; p. 239.
- Lewis, George H., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Wrapping-machine. No. 1,294,681; Feb. 18; v. 259; p. 464.
- Lewis, George H., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanizer. No. 1,305,474; June 3; v. 263; p. 46.
- Lewis, George S., Oak Park, Ill., assignor to Mead Cycle Company. Manufacturing front forks for bicycles. No. 1,322,250; Nov. 18; v. 268; p. 471.
- Lewis, George W., Grinnell, Iowa, assignor, by mesne assignments, to Lovell Manufacturing Company, Erie, Pa. Wringer. (Reissue.) No. 14,683; July 8; v. 264; p. 326.
- Lewis, Goodrich Q., Wheaton, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car draft-rigging. No. 1,290,255; Jan. 7; v. 258; p. 59.
- Lewis, Goodrich Q., Wheaton, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car draft-rigging. No. 1,293,131; Feb. 4; v. 259; p. 37.
- Lewis, Goodrich Q., Wheaton, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car draft-rigging. No. 1,300,421; Apr. 15; v. 261; p. 458.
- Lewis, Goodrich Q., Washington, D. C., assignor to W. H. Miner, Chazy, N. Y. High-capacity friction shock-absorbing mechanism. No. 1,303,338; May 13; v. 262; p. 190.
- Lewis, Goodrich Q., Wheaton, and J. R. Mitchell, Evanston, Ill., assignors to W. H. Miner, Chazy, N. Y. Friction draft-gear. No. 1,300,422; Apr. 15; v. 261; p. 459.
- Lewis, Guy L., Akron, Ohio. Device for breaking, contracting, and expanding rims. No. 1,305,654; June 3; v. 263; p. 81.
- Lewis, Harry F., Urbana, Ill., and H. D. Gibbs, San Francisco, Cal. Purifying commercial anthraquinone. No. 1,293,610; Feb. 4; v. 259; p. 147.
- Lewis, Henry G., assignor to Electric Service Supplies Company, Philadelphia, Pa. Shade and reflector. No. 1,322,910; Nov. 25; v. 268; p. 646.
- Lewis, Henry J., assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Welding-machine. No. 1,391,462; Apr. 22; v. 261; p. 711.
- Lewis, Herbert C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Braiding-machine. No. 1,322,590; Nov. 25; v. 268; p. 587.
- Lewis, James N., Detroit, Mich. Quick-combustion gun. No. 1,290,596; Jan. 7; v. 258; p. 140.
- Lewis, James N., Detroit, Mich. Separable aeroplane and gas-bag. No. 1,306,348; June 10; v. 263; p. 243.
- Lewis, James V. and L. R., assignors of one-fourth to H. A. Stanton, Clarks Summit, Pa. Valve and operating mechanism for internal-combustion engines. No. 1,295,774; Feb. 25; v. 259; p. 739.
- Lewis, John E., Pasadena, Cal. Steam-boiler. No. 1,296,978; Mar. 11; v. 260; p. 299.



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- Lewis, John M. B., Lynchburg, Va. Animal-stanchion. No. 1,311,658; July 29; v. 264; p. 803.
- Lewis, John M. B., Lynchburg, Va. Animal-stanchion. No. 1,314,880; Sept. 2; v. 266; p. 75.
- Lewis, John M. B., assignor to Livestock Individual Drinking Fountain Company, Inc., Lynchburg, Va. Drinking apparatus. No. 1,317,801; Oct. 7; v. 267; p. 27.
- Lewis, John M. B., Lynchburg, Va. Rod or pipe coupling. No. 1,322,801; Nov. 25; v. 268; p. 626.
- Lewis, Joseph, Winnipeg, Manitoba, Canada. Attachment to printing-machines. No. 1,312,263; Aug. 5; v. 265; p. 16.
- Lewis, Kenneth A., Sandy Creek, N. Y. Egg-frying pan. No. 1,319,878; Oct. 28; v. 267; p. 533.
- Lewis, Le Roy C., St. Paul, Minn. Humidifier. No. 1,322,911; Nov. 25; v. 268; p. 646.
- Lewis, Lee D., Tulsa, Okla. Wrench. No. 1,312,406; Aug. 5; v. 265; p. 103.
- Lewis, Lester L., Philadelphia, assignor of one-half to E. H. Beardsley, Ridley Park, Pa. Umbrella structure. No. 1,325,444; Dec. 16; v. 269; p. 524.
- Lewis, Levi R. (See Lewis, James V. and L. R.)
- Lewis, Lewis C., Columbus, assignor of one-half to J. C. Spangler, Cleveland, Ohio. Spark-plug. No. 1,322,703; Nov. 25; v. 268; p. 608.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,296,095; Mar. 4; v. 260; p. 63.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 1,310,626; July 22; v. 264; p. 579.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,311,607; July 29; v. 264; p. 794.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,311,608; July 29; v. 264; p. 794.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-crossing signal and control thereof. No. 1,312,407; Aug. 5; v. 265; p. 103.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Speed-controlling apparatus for railway-vehicles. No. 1,325,328; Dec. 16; v. 269; p. 503.
- Lewis, Lloyd V., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,324,912; Dec. 16; v. 269; p. 425.
- Lewis, Louis, London, England. Stencil production. No. 1,299,969; Apr. 8; v. 261; p. 335.
- Lewis, Lowry, McAlpin, W. Va. Case for holding and shipping bottles. No. 1,306,264; June 10; v. 263; p. 227.
- Lewis, Nathan E., Plainfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Baffle for steam-boilers. No. 1,299,486; Apr. 8; v. 261; p. 226.
- Lewis, Owen L., Baltimore, Md. Fusible link for automatic sprinklers. No. 1,304,332; May 20; v. 262; p. 411.
- Lewis, Raymond C., Brooklyn, N. Y. Attaching-socket for gas-tubing. No. 1,294,921; Feb. 18; v. 259; p. 520.
- Lewis, Robert C., Little Rock, Ark. Moisture-radiator for incubators. No. 1,296,197; Mar. 4; v. 260; p. 88.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,296,538; Mar. 4; v. 260; p. 161.
- Lewis, Samuel H., Richmond, Va. Valve structure. No. 1,291,566; Jan. 14; v. 258; p. 393.
- Lewis, Wilfred, Haverford, Pa. Casting chains. No. 1,307,136; June 17; v. 263; p. 419.
- Lewis, Wilfred P., St. Louis, Mo. Combined smoker's case. No. 1,326,070; Dec. 23; v. 269; p. 638.
- Lewis, William. (See Petterson, Erick W., assignor.)
- Lewis, William A. (See Eisenhart and Lewis.)
- Lewis, William J. (See Lape, Willard E., assignor.)
- Lewison, Lewis, Hamilton, Ontario, Canada. Pastry-making device. No. 1,293,819; Feb. 11; v. 259; p. 228.
- Lewison, Lewis, Hamilton, Ontario, Canada. Batter-feeding mechanism for ice-cream-cone-manufacturing apparatus. No. 1,309,862; July 15; v. 264; p. 408.
- Lewry, Mahlon, Brooklyn, N. Y. Furniture. No. 1,298,362; Mar. 25; v. 260; p. 648.
- Lewsey, James W. (See Falconbridge and Lewsey.)
- Lewton, Charles B. (See Lind, Charles A., assignor.)
- Lexa, George J. (See Lehman and Lexa.)
- Ley, William N., Spokane, Wash. Visible paper feeder and cutter. No. 1,293,484; Feb. 4; v. 259; p. 118.
- Leyland Motors (1914) Ltd. (See Thomas, John G. P., assignor.)
- Lezcano, Gustavo, Habana, Cuba. Resilient wheel for vehicles. No. 1,308,761; July 8; v. 264; p. 166.
- Libby, George N., Berkeley, Calif. Oxidation of sulfids. No. 1,323,879; Dec. 2; v. 269; p. 123.
- Libbey Glass Company, The. (See Danner, Edward, assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Colburn, Irving W., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Owens, Michael J., assignor.)
- Lieberman, Bernard, Philadelphia, Pa. Cigar-bunching machine. No. 1,316,371; Sept. 16; v. 266; p. 372.
- Lieberman, Bernard, Philadelphia, Pa. Cigar-wrapper cutter and rolling table. No. 1,318,776; Oct. 14; v. 267; p. 274.
- Lieberman, Bernard, Philadelphia, Pa. Means for bunching cigars. No. 1,318,777; Oct. 14; v. 267; p. 274.
- Lieberman, Charles, New York, N. Y. Vehicle-fender. No. 1,293,485; Feb. 4; v. 259; p. 118.
- Libert, Arthur, Green Bay, Wis. Automatic roll-stripping mechanism. No. 1,315,227; Sept. 9; v. 266; p. 148.
- Liberty Accessories Corporation. (See Raff, Ernest G., assignor.)
- Liberty, Antoine J., Detroit, Mich. Detachable power-driven propeller for boats. No. 1,316,169; Sept. 16; v. 266; p. 334.
- Liberty, Archie, Amasa, Mich. Water-level indicator and alarm. No. 1,318,213; Oct. 7; v. 267; p. 106.
- Liberty Burner Co. (See Yeager, Matthias S., assignor.)
- Liberty Carburetor Company. (See Des Roches, Arsene B., assignor.)
- Liberty Ordnance Corporation. (See Cartwright, David J., assignor.)
- Liberty Radiator Company. (See Coffelder, Thomas N., assignor.)
- Liberty, Saul R., Pawtucket, R. I. Bobbin-holder for shuttles. No. 1,296,825; Mar. 11; v. 260; p. 263.
- Liberty Tool Company, The. (See Diffendall, Walter H., assignor.) (Reissue.)
- Liberty Tractor Company. (See Pitcher, Elmer, assignor.)
- Libson, Isaac, Brooklyn, N. Y. Lamp shade or reflector. No. 1,291,945; Jan. 21; v. 258; p. 517.
- Lichtenberg, Erich H., assignor to Koehring Machine Company, Milwaukee, Wis. Rotary concrete-mixer. No. 1,298,743; Apr. 1; v. 261; p. 29.
- Lichtenberg, Erich H., assignor to Koehring Machine Company, Milwaukee, Wis. Control device for mixing-machines. No. 1,321,460; Nov. 11; v. 268; p. 272.
- Lichtenhahn, Theodor, Basel, assignor to Elektrizitätswerk Lonza, Gampel, Switzerland. Manufacture of ethyl alcohol from acetaldehyde. No. 1,311,824; July 29; v. 264; p. 834.
- Lichtenhan, Henry E. (See Voss and Lichtenhan.)
- Lichtenstein, Edwin, (now by judicial change of name E. Lane), New York, N. Y. Door for washing-machines. No. 1,295,830; Feb. 25; v. 259; p. 752.
- Lichtenstein, Louis, Wilmington, Del. Fastener for lids of receptacles. No. 1,321,461; Nov. 11; v. 268; p. 272.
- Lichtenstein, Marvin. (See Cohen and Lichtenstein.)
- Lichtenstein, William C. (See Roberts, Isaiah L., assignor.)
- Lichtenthaeler, Frank E., Newton Highlands, assignor to The Walter E. Lumms Company, Boston, Mass. Lifting-tongs. No. 1,298,064; Mar. 25; v. 260; p. 585.
- Lichty, Claud S. (See Lichty and Campbell.)
- Lichty Metal Products Company. (See Lichty, Norman A., assignor.)
- Lichty Metal Products Company. (See Lichty and Campbell, assignors.)
- Lichty, Norman A., assignor to Lichty Metal Products Company, Waterloo, Iowa. Skylight-window framing. No. 1,325,794; Dec. 23; v. 269; p. 607.
- Lichty, Norman A. and C. S., and H. F. Campbell, assignors to Lichty Metal Products Company, Waterloo, Iowa. Ventilator. No. 1,309,037; July 8; v. 264; p. 218.
- Lickley, Ralph M., East Cleveland, Ohio. Drifting-valve device for locomotives. No. 1,301,853; Apr. 29; v. 261; p. 817.
- Lidberg, Tiodolf, assignor to Chicago Surgical & Electrical Company, Chicago, Ill. Electrothermic furnace for therapeutic purposes. No. 1,295,045; Feb. 18; v. 259; p. 547.
- Lidberg, Tiodolf, assignor to Chicago Surgical & Electrical Company, Chicago, Ill. Microscope-illuminator. No. 1,316,050; Sept. 16; v. 266; p. 311.
- Liddell, Fred R., Laporte, Ind., assignor to G. W. Upton, Warren, Ohio. Fishing-reel. No. 1,305,910; June 3; v. 263; p. 128.
- Liddell, Moses V., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Motor-vehicle frame. No. 1,303,339; May 13; v. 262; p. 190.
- Liddell, Moses V., Harvey, assignor to Austin Manufacturing Company, Chicago, Ill. Dump-wagon. No. 1,310,916; July 22; v. 264; p. 632.
- Liddell, Robert M. (See Calvert, James, assignor.)
- Lidmila, Edward S., Wisner, Nebr. Horse-detacher. No. 1,321,763; Nov. 11; v. 268; p. 329.
- Liebau, Karl W., Orosi, Cal. Beet-harvesting machine. No. 1,291,567; Jan. 14; v. 258; p. 393.
- Lieben, Abraham, New York, N. Y. Bathing-shoe. No. 1,319,680; Oct. 21; v. 267; p. 472.
- Liebenberg, Christian E., Erith, England. Automatic liquid-injector for internal-combustion engines. No. 1,301,463; Apr. 22; v. 261; p. 711.
- Liebenberg, Christian E., Chester, Pa. Belt-shifter. No. 1,301,464; Apr. 22; v. 261; p. 711.
- Lieber, Peter C., assignor to Progress Machine Company, Indianapolis, Ind. Retainer for bottle-capping machines. No. 1,290,256; Jan. 7; v. 258; p. 59.



- Lieber, Peter C., assignor to Progress Machine Company, Indianapolis, Ind. Bottle-capping machine. No. 1,303,340; May 13; v. 262; p. 191.
- Lieberman, Hyman, Marinette, Wis. Direction-signal. No. 1,299,361; Apr. 1; v. 261; p. 169.
- Lieberman, Joseph, Philadelphia, Pa. Garment. No. 1,326,517; Dec. 30; v. 269; p. 779.
- Lieberman, Moses, assignor to Baldor Metal Works, Inc., West Orange, N. J. Sifter. No. 1,290,597; Jan. 7; v. 258; p. 140.
- Liebowitz, Benjamin, New York, N. Y. Pivot. No. 1,305,815; June 3; v. 263; p. 110.
- Liebreich, Oscar P., Troy, N. Y. Automatic storage-battery filler. No. 1,304,894; May 27; v. 262; p. 556.
- Liebreich, Oscar P., Troy, N. Y. Headlight-control switch for motor-vehicles. No. 1,316,372; Sept. 16; v. 266; p. 372.
- Liedtke, Oscar, and J. M. Bien, Newark, N. J. Sash-locking bar. No. 1,308,287; July 1; v. 264; p. 51.
- Lienke, Carl F., Minneapolis, Minn. Dadoing-machine. No. 1,298,065; Mar. 25; v. 260; p. 585.
- Lieschke, Friedrich C., Alma Park, near Walla Walla, New South Wales, Australia. Crop-lifting attachment for stripper-harvesters. No. 1,320,877; Nov. 4; v. 268; p. 98.
- Lieske, Ernst, North Arlington, N. J., assignor of one-half to F. W. Lapp and one-half to O. C. Reith, New York, N. Y. Radiator attachment. No. 1,299,970; Apr. 8; v. 261; p. 335.
- Lieske, Frank J., Detroit, assignor of one-sixteenth to C. F. Kuhn and one-sixteenth to H. J. Koepf, Marquette, Mich., and three-eighths to American Engineering Associates. Submarine. No. 1,300,744; Apr. 15; v. 261; p. 526.
- Lieske, Frank J., Detroit, Mich., assignor, by mesne assignments, of one-half to American Engineering Associates. Submarine. No. 1,300,745; Apr. 15; v. 261; p. 527.
- Lietz, Paul S., Chicago, Ill. Pneumatic tire. No. 1,315,136; Sept. 2; v. 266; p. 121.
- Lifshitz, Morris J. (See Friedmann and Lifshitz.)
- Liggett, Hugh C. and S. W., and G. M. Hood, Salineville, Ohio. Safety gas-valve. No. 1,294,359; Feb. 11; v. 259; p. 353.
- Liggett & Myers Tobacco Company. (See Toms, Clinton W., assignor.)
- Liggett, Sherman W. (See Liggett and Hood.)
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Shoveling and loading apparatus. No. 1,293,132; Feb. 4; v. 259; p. 37.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Portable sacking-machine. No. 1,320,249; Oct. 28; v. 267; p. 601.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Combined crusher and pulverizer. No. 1,321,380; Nov. 11; v. 268; p. 257.
- Liggon, Edgar H., Richmond, Va. Toy machine-gun. No. 1,319,296; Oct. 21; v. 267; p. 399.
- Light, Claus H., assignor of one-fourth to J. Zeiner and one-fourth to B. Hindle, Des Moines, Iowa. Sandless concrete. No. 1,309,038; July 8; v. 264; p. 219.
- Light Metals Co. (See Thofehn, Herman G. C., assignor.)
- Lightburne, Alvan W., Liberty, Mo. Flying-machine. No. 1,325,696; Dec. 23; v. 269; p. 588.
- Lightenhome, Charles L., New York, N. Y. Making substitutes for shellac, varnish, and related products. No. 1,315,137; Sept. 2; v. 266; p. 121.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Heat-regulating system. No. 1,314,881; Sept. 2; v. 266; p. 75.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heating appliance. No. 1,321,649; Nov. 11; v. 268; p. 307.
- Lightfoot, Edwin N., New York, N. Y.; assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Ironing appliance for shoe-treating machines. No. 1,325,022; Dec. 16; v. 269; p. 445.
- Lightning Change Rim Corporation. (See Deeds, Charles B., assignor.)
- Lightoller Company. (See Dahl, Thure, assignor.) (Re-issue.)
- Ligon, Lottie P., Roanoke, Va. Cylinder-cock. No. 1,323,076; Nov. 25; v. 268; p. 677.
- Ligon, William D., Montclair, N. J. Safety inclosed fuse. No. 1,301,465; Apr. 22; v. 261; p. 711.
- Lihme, Christian B. (See Gerlach and Lihme.)
- Lihme, Iens P., Lakewood, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Making lead arsenate. No. 1,302,186; Apr. 29; v. 261; p. 879.
- Lillibridge, Curtis C., Hutchinson, Kans. Oil vaporizer and burner. No. 1,295,775; Feb. 25; v. 259; p. 739.
- Lillibridge, Harry D., Zanesville, Ohio, assignor to American Encaustic Tiling Co. Ltd., New York, N. Y. Sagger. No. 1,302,684; May 6; v. 262; p. 38.
- Lillibridge, Louis V. (See Laraway and Lillibridge.)
- Lillibridge, Willard S., assignor to E. E. Luganbeal, Elk City, Kans. Washing-machine. No. 1,294,682; Feb. 18; v. 259; p. 464.
- Lillie, Arthur C. (See Spencer and Lillie.)
- Lillie, Edwin C., Denver, Colo. Promoting combustion. No. 1,312,916; Aug. 12; v. 265; p. 233.
- Lillie, Samuel M., Philadelphia, Pa. Employing heat for the production of power. (Reissue.) No. 14,726; Sept. 16; v. 266; p. 408.
- Lilly, Ford. (See Wohlgenuth and Lilly.)
- Lilly, John R. (See Luke and Lilly.)
- Lilly, Thomas L., Minonk, Ill. End-gate for autotrucks. No. 1,314,882; Sept. 2; v. 266; p. 75.
- Lilly, William J., Butte, Mont. Hoisting-engine control. No. 1,314,675; Sept. 2; v. 266; p. 38.
- Limacher, Walter P., Pasadena, Calif. Device for attaching nipples, caps, and the like on containers. No. 1,319,297; Oct. 21; v. 267; p. 399.
- Limanowski, Henry, Hastings-upon-Hudson, N. Y. Bomb-dropper. No. 1,295,534; Feb. 25; v. 259; p. 684.
- Limbach, Gustave A., New York, N. Y. Garment hanger and lock. No. 1,312,553; Aug. 12; v. 265; p. 161.
- Limbert, John W., Muncie, Ind. Fastener for jar-closures. No. 1,322,125; Nov. 18; v. 268; p. 447.
- Limerick, Elizabeth M., Watsonville, Cal. Stocking-drying device. No. 1,290,257; Jan. 7; v. 258; p. 59.
- Liming, Franz O., Chicago, Ill., assignor of one-half to J. M. Liming, Fairfield, Iowa. Mechanical catch. No. 1,291,033; Jan. 14; v. 258; p. 269.
- Liming, John M. (See Liming, Franz O., assignor.)
- Limoges, Alfred, North Bay, Ontario, Canada. Fly-gun. No. 1,304,074; May 20; v. 262; p. 362.
- Limoncelle, Joseph, Chicago, Ill. Knockdown banana-crate. No. 1,304,994; May 27; v. 262; p. 575.
- Limont, Alexander W., Bridgeport, Conn. Electric-lamp-socket cap. No. 1,325,875; Dec. 23; v. 269; p. 622.
- Limousine Top Company. (See Miner, Charles A., assignor.)
- Limpp, Rufus H., King City, Mo. Oil-cock control and illuminator. No. 1,300,423; Apr. 15; v. 261; p. 459.
- Linaker, Frederick W. (See Kissick and De Ved, assignors.)
- Linaker, Frederick W., Dubois, Pa. Soot-cleaner. No. 1,318,293; Oct. 7; v. 267; p. 121.
- Linaker, Frederick W., Dubois, Pa. Protective sheathing for soot-cleaner-distributing pipes. No. 1,323,880; Dec. 2; v. 269; p. 123.
- Lina, Ethel L., Reading, England. Device or appliance for use in teaching children. No. 1,294,126; Feb. 11; v. 259; p. 300.
- Lina, Ethel L., Reading, England. Device or appliance for use in teaching children. No. 1,310,997; July 22; v. 264; p. 647.
- Lincoln, Anna C., Savannah, Ga. Thread-cutter and hem-crazer. No. 1,299,971; Apr. 8; v. 261; p. 335.
- Lincoln, Charles S., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pulverizer. No. 1,309,805; July 15; v. 264; p. 397.
- Lincoln Electric Company, The. (See David, Bruce W., assignor.)
- Lincoln, Paul M., Pittsburgh, Pa. Engine starting device. No. 1,290,598; Jan. 7; v. 258; p. 141.
- Lincoln, Paul M., Pittsburgh, Pa. Electric meter. No. 1,305,227; May 27; v. 262; p. 620.
- Lincoln, Paul M., Pittsburgh, Pa. Electrical device. No. 1,315,975; Sept. 16; v. 266; p. 298.
- Lincoln, Paul M., Pittsburgh, and B. H. Smith, Turtle Creek, Pa.; said Smith assignor to Westinghouse Electric and Manufacturing Company. Measuring instrument. No. 1,300,283; Apr. 15; v. 261; p. 429.
- Lincoln-Porter Manufacturing Company. (See Lincoln, Ward W., assignor.)
- Lincoln, Ward W., Rock Falls, assignor to Lincoln-Porter Manufacturing Company, Sterling, Ill. Folding stool and step. No. 1,325,302; Dec. 16; v. 269; p. 498.
- Lind, Charles A., assignor of one-fourth to C. B. Lewton, San Jose, Calif. Aeroplane. No. 1,304,187; May 20; v. 262; p. 383.
- Lind, Theodore, Taylorville, Ill. Foot-controlled accelerator. No. 1,301,580; Apr. 22; v. 261; p. 732.
- Lind, Theodore E. (See Johnson, Lind, and Clarke.)
- Lindhahl, Anders. (See Hedberg, Georg J., assignor.)
- Lindhahl, Anders. (See Missén, John F., assignor.)
- Lindhahl, Erick P., assignor to T. Haumesser, Pleasant Ridge, Ohio. Bottle-case. No. 1,315,371; Sept. 9; v. 266; p. 174.
- Lindall, John, Boston, Mass. Safety device for draw-bridges and the like. No. 1,303,077; May 6; v. 262; p. 113.
- Lindauer, Alfred C., Madison, Wis., assignor to the United States of America. Waterproof glue. No. 1,310,706; July 22; v. 264; p. 593.
- Lindberg, George E., assignor to Diamond Calk Horse Shoe Co., Duluth, Minn. Horseshoe. No. 1,320,878; Nov. 4; v. 268; p. 98.
- Lindberg, Gustaf, Walla Walla, Wash. Last. No. 1,325,023; Dec. 16; v. 269; p. 445.
- Lindberg, J. H. (See Stenman, Bror F., assignor.)
- Lindberg, Johan H., Stockholm, Sweden. Course-indicator. No. 1,292,337; Jan. 21; v. 258; p. 613.
- Lindberg, John W., Stockholm, Sweden. Device for securing keys in locks. No. 1,314,526; Sept. 2; v. 266; p. 9.
- Lindblad, Axel R., Stockholm, Sweden. Process and apparatus for producing nitrogen compounds, especially nitrides. No. 1,311,568; July 29; v. 264; p. 786.



## Alphabetical list of patentees—Continued.

- Lindblom, Ernest G., Providence, R. I. Back-rest. No. 1,308,500; July 1; v. 264; p. 90.
- Linde, Olaf N., and A. Linder, Lindberg, Wash. Ink-stand. No. 1,297,877; Mar. 18; v. 260; p. 520.
- Lindeberg, Marietta, Ocean Grove, N. J. Garment. No. 1,305,911; June 3; v. 263; p. 128.
- Lindeen, Frank, assignor of one-fourth to J. Armstrong, Clinton, Ill. Safety device for pockets. No. 1,319,016; Oct. 14; v. 267; p. 320.
- Lindeman, Benjamin F., Portland, Oreg. Eyeglass-case. No. 1,303,485; May 13; v. 262; p. 217.
- Lindeman, Reinhold F. (See Monaghan and Lindeman.)
- Lindemann, Herman J., Ann Arbor, Mich. Window-opener. No. 1,305,614; June 3; v. 263; p. 74.
- Linden, Charles, Stratford, Conn. Snap-gage. No. 1,322,029; Nov. 18; v. 268; p. 429.
- Linden, John O., Albuquerque, N. Mex. Garment. No. 1,325,445; Dec. 16; v. 269; p. 524.
- Linden, Lucien, assignor to W. J. Stewart, London, England. Treatment of sewage or contaminated liquid. No. 1,307,686; June 24; v. 263; p. 552.
- Linden, Robert A. (See Campbell, Duncan R., assignor.)
- Lindenbein, Edwin E., Allentown, Pa. Rotary engine. No. 1,293,820; Feb. 11; v. 259; p. 228.
- Linder, Andrew. (See Linde and Linder.)
- Linder, Leopold S., Mankato, Minn. Egg-recording nest. No. 1,302,818; May 6; v. 262; p. 64.
- Linder, Oscar, assignor to Ideal Roller Company, Chicago, Ill. Printing-press and lithographing-press roller. No. 1,317,713; Oct. 7; v. 267; p. 10.
- Linderman, Bert A., Muskegon, Mich. Positioning mechanism. No. 1,316,051. Sept. 16; v. 266; p. 311.
- Linderme, Emil and T. G., Detroit, Mich. Cover-placing machine for bottles. No. 1,294,495; Feb. 18; v. 259; p. 421.
- Linderme, Theodore G. (See Linderme, Emil and T. G.)
- Lindfors, Olaf E., Fruita, Colo. Engine-starter. No. 1,290,599; Jan. 7; v. 258; p. 141.
- Lindgren, Alexis C., Moline, Ill., assignor to Moline Plow Company. Mechanical movement. No. 1,301,854; Apr. 29; v. 261; p. 817.
- Lindgren, Alexis C., Moline, Ill., assignor, by mesne assignments, to International Harvester Company. Wheeled plow. No. 1,312,188; Aug. 5; v. 265; p. 63.
- Lindgren, Carl O., Sanborn, N. D. Grain-shocker. No. 1,306,703; June 17; v. 263; p. 341.
- Lindgren, Frank G., assignor to The Sheffield Machine & Tool Company, Dayton, Ohio. Thread-lead indicator. No. 1,297,194; Mar. 11; v. 260; p. 346.
- Lindgren, Oscar. (See Pearson, Nels, assignor.)
- Lindhé, Roland W., Moscow, Russia, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-retainer for ball-bearings. No. 1,294,127; Feb. 11; v. 259; p. 300.
- Lindley, Lowell F., Chicago, Ill. Sanitary flooring. No. 1,319,879; Oct. 28; v. 267; p. 533.
- Lindmeier, Frederick and J., Oak Park, Ill. Humidifier system and apparatus. No. 1,291,946; Jan. 21; v. 258; p. 518.
- Lindmeier, Justus. (See Lindmeier, Frederick and J.)
- Lindner, Arthur, Indianapolis, Ind. Centering mechanism. No. 1,315,711; Sept. 9; v. 266; p. 234.
- Lindquist, Albert V., Alexandria, Minn. Weedless fish-hook. No. 1,306,383; June 10; v. 263; p. 249.
- Lindquist, Carl J., New York, N. Y. assignor to Submarine Salvage Company. Portable submarine fort. No. 1,291,034; Jan. 14; v. 258; p. 269.
- Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Governor for elevators. No. 1,298,066; Mar. 25; v. 260; p. 586.
- Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety device. No. 1,300,424; Apr. 15; v. 261; p. 459.
- Lindquist, David L., Yonkers, N. Y., and G. N. Crabbe, Cresskill, N. J., assignors to Otis Elevator Co. Brake apparatus. No. 1,291,035; Jan. 14; v. 258; p. 269.
- Lindquist, David L., Hartsdale, N. Y., and W. H. Hultgren, Roselle Park, assignors to Otis Elevator Company, Jersey City, N. J. Hydro-steam valve. No. 1,298,067; Mar. 25; v. 260; p. 586.
- Lindquist, Ernest W., Lawrence, Mass. Shake arrangement for cylinder paper-machines. No. 1,323,702; Dec. 2; v. 269; p. 89.
- Lindquist, Frank D., New York, N. Y., assignor to Nitrogen Products Company, Providence, R. I. Fixing nitrogen. No. 1,298,363; Mar. 25; v. 260; p. 648.
- Lindsay Auto Parts Company. (See Heany, John A., assignor.)
- Lindsay Auto Parts Company. (See Lindsay, Thomas, assignor.)
- Lindsay, Charles E., Albany, N. Y. Track-lining jack. No. 1,324,199; Dec. 9; v. 269; p. 228.
- Lindsay, David, Paterson, N. J. Nap-restoring means. No. 1,318,778; Oct. 14; v. 267; p. 274.
- Lindsay, Fred H., Campello, assignor of one-half to Woodward & Wright Last Company, Brockton, Mass. Knife-grinding machine. No. 1,296,979; Mar. 11; v. 260; p. 299.
- Lindsay, George W., assignor to The Denver Fire Clay Company, Denver, Colo. Oil-burner. No. 1,318,160; Oct. 7; v. 267; p. 95.
- Lindsay, Hamilton, Willoughby, Ohio. Locomotive-stoker. No. 1,305,655; June 3; v. 263; p. 81.
- Lindsay, James E., Selma, La. Hose and garment supporter. No. 1,296,674; Mar. 11; v. 260; p. 229.
- Lindsay Light Company. (See Berndt, Otto N., assignor.)
- Lindsay Light Company. (See Ryan, Lonnie W., assignor.)
- Lindsay, Lycurgus. (See Davids and Lindsay.)
- Lindsay, Thomas, Indianapolis, Ind., assignor to Lindsay Auto Parts Company, Twin wire wheel. No. 1,319,594; Oct. 21; v. 267; p. 44.
- Lindsay, Walter L., Baltimore, Md. Collar-fastener and necktie-guide. No. 1,310,422; July 22; v. 264; p. 541.
- Lindsay, William G., Newark, N. J., assignor to The Celuloid Company. Making pyroxylin compounds. No. 1,292,819; Jan. 28; v. 258; p. 749.
- Lindsay, William G., Newark, N. J., assignor to The Celuloid Company. Non-inflammable cellulose compound. No. 1,319,229; Oct. 21; v. 267; p. 386.
- Lindsay, William G., Newark, N. J., assignor to The Celuloid Company. Aeroplane fabric and making same. No. 1,325,363; Dec. 16; v. 269; p. 509.
- Lindsay, William H., Johnstone, Scotland. Clutch. No. 1,298,975; Apr. 1; v. 261; p. 83.
- Linsley, James E., assignor of one-half to W. B. O'Neil, Louisville, Ky. Fastening device. No. 1,298,976; Apr. 1; v. 261; p. 84.
- Linsley, James W. (See Rusk, Raymond and C., assignors.)
- Linsley, Edward A., Spokane, Wash. Apparatus for coating or impregnating posts. No. 1,312,857; Aug. 12; v. 265; p. 221.
- Linsley, Harry B., Sleepy Eye, Minn. Separator. No. 1,292,820; Jan. 28; v. 258; p. 749.
- Lindstaedt, Fred, Fairmont, Minn. Collapsible flagpole. No. 1,297,578; Mar. 18; v. 260; p. 456.
- Lindström, Charles A., and J. F. Streib, assignors to Pressed Steel Car Company, Pittsburgh, Pa. Dump-car construction. No. 1,321,928; Nov. 18; v. 268; p. 410.
- Lindstrom, Otto, and T. Makela, Indianapolis, assignors of one-third to J. Hamlin, Muncie, Ind. Drawing-in power-hammer die. No. 1,290,258; Jan. 7; v. 258; p. 59.
- Lindstrom, Smith Company, The. (See Endorf, Charles, Jr., assignor.)
- Line, Charles, assignor to Mechanical Utilities Corporation, Chicago, Ill. Heater for carbureters or the like. No. 1,321,462; Nov. 11; v. 268; p. 273.
- Line, John M., Springfield, Mo. Collapsible or folding cot. No. 1,317,141; Sept. 23; v. 266; p. 565.
- Lineatime Manufacturing Co. (See Drake and Bishop, assignors.)
- Linebaugh, Edward R., Barborton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Sheet-feeding mechanism for printing-presses. No. 1,319,716; Oct. 28; v. 267; p. 501.
- Liner, Joseph L., Closter, N. J., assignor to The Costimeter Company, Detroit, Mich. Program device. No. 1,321,112; Nov. 11; v. 268; p. 205.
- Linfoot, Benjamin E., Philadelphia, Pa. Duplex flush-tank. No. 1,323,703; Dec. 2; v. 269; p. 90.
- Lingard, John S. (See Cumerford and Lingard.)
- Lingle, Hiram D., Lingle, Wyo., assignor of one-half to S. O. Sharp, Indianapolis, Ind. Seed and preparing same for planting. No. 1,319,157; Oct. 21; v. 267; p. 373.
- Lingsch, Frederick A., New York, N. Y. Piano-action. No. 1,296,826; Mar. 11; v. 260; p. 263.
- Linhart, John M., Greensburg, Pa. Chain-protector. No. 1,294,283; Feb. 11; v. 259; p. 336.
- Linhart, Joseph, Elmhurst, N. Y. Garment-fastener. No. 1,301,855; Apr. 29; v. 261; p. 817.
- Link-Belt Company *et al.* (See Budd, Thomas D., assignor.)
- Link-Belt Company. (See Johnston, Arthur C., assignor.) (Reissue.)
- Link-Belt Company. (See MacLennan, Joseph A., assignor.)
- Link-Belt Company. (See Petersen, John H. D., assignor.)
- Link-Belt Company. (See Piez, Charles, assignor.)
- Link-Belt Company. (See Pratt, Howell D., assignor.)
- Link-Belt Company. (See Sayers, Albert J., assignor.)
- Link-Belt Company. (See Schott, Joseph F., assignor.)
- Link, Henry C., Stockton, Calif. Sack-lifter. No. 1,303,692; May 13; v. 262; p. 254.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation. Automobile-frame. No. 1,326,750; Dec. 30; v. 269; p. 822.
- Linkowski, Wallie, Detroit, Mich. Necktie-holder. No. 1,301,792; Apr. 22; v. 261; p. 776.
- Linaud, Guillermo, Buenos Aires, Argentina. Lock. No. 1,301,466; Apr. 22; v. 261; p. 712.
- Linley, Fred H., Duluth, Minn. Conduit. No. 1,325,024; Dec. 16; v. 269; p. 446.
- Linman, Carrie, Stephenson, Mich. Sanitary mattress. No. 1,291,036; Jan. 14; v. 258; p. 270.
- Linn, Albert W., Memphis, Tenn. Advertising apparatus. No. 1,298,977; Apr. 1; v. 261; p. 84.
- Linn, James F., assignor to Minneapolis Bedding Company, Minneapolis, Minn. Bed-spring hanger. No. 1,299,362; Apr. 1; v. 261; p. 169.



- Linn, John A., Denver, Colo. Elevator. No. 1,302,059; Apr. 29; v. 261; p. 856.
- Linn, W. Birney, Chico, Calif. Straw and grain separator for threshers. No. 1,325,480; Dec. 16; v. 269; p. 530.
- Linnd, Frederick J., Falconer, N. Y. Paddle-wheel. No. 1,305,727; June 3; v. 263; p. 94.
- Linnemann, Dilla C. (See Case, Henry M., assignor.)
- Linnertz, Chris W., Minot, N. D. Hoisting and unloading sling for wagons and the like. No. 1,325,025; Dec. 16; v. 269; p. 446.
- Linograph Company, The. (See Petersen, Hans, assignor.)
- Linotype and Machinery Limited. (See Holbourns, John G., assignor.)
- Linscott, Charles W., Jackson, Mich. Rifle-barrel. No. 1,299,972; Apr. 8; v. 261; p. 335.
- Lint, Peter H., El Cerrito, Calif. Fruit-gatherer. No. 1,317,927; Oct. 7; v. 267; p. 50.
- Linton, John F., Brooklyn, assignor, by mesne assignments, of one-half to J. A. Martin, New York, N. Y. Collecting, sifting, and removing ashes. No. 1,314,677; Sept. 2; v. 266; p. 39.
- Linton, John P., Montreal, Quebec, Canada. Automatic sprinkler. No. 1,319,230; Oct. 21; v. 267; p. 386.
- Linville, John L., Alturas, Cal. Tent and portable and knockdown house. No. 1,291,947; Jan. 21; v. 258; p. 518.
- Lipe, Willard C., and A. G. Bolster, Syracuse, N. Y., assignors to The Fisk Rubber Co., Chicopee Falls, Mass. Tire-mold. No. 1,320,399; Nov. 4; v. 268; p. 8.
- Lipe, Willard C., and J. W. Coughtry, deceased; S. S. Coughtry, administratrix, Syracuse, N. Y. Motion-transmitting-controlling means. No. 1,310,561; July 22; v. 264; p. 566.
- Lippinski, Anton V., Zurich, Switzerland. Method and apparatus for carrying out chemical reactions by means of magnetically-spread-out electric arcs. No. 1,290,600; Jan. 7; v. 258; p. 141.
- Lippinski, John, Leavenworth, Kans. Illusion apparatus. No. 1,310,707; July 22; v. 264; p. 593.
- Lipowski, Zygmunt, Hoboken, N. J. Box. No. 1,318,570; Oct. 14; v. 267; p. 235.
- Lipo, Julius H. M., Buffalo, N. Y. Neckwear. No. 1,300,179; Apr. 8; v. 261; p. 380.
- Lippen, Jonathan K., assignor to Postum Cereal Company, Battle Creek, Mich. Solid soluble beverage extract. No. 1,326,751; Dec. 30; v. 269; p. 822.
- Lippert-Bruebauer, Otto A. J. R., assignor to U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Annular ball-bearing. No. 1,310,423; July 22; v. 264; p. 541.
- Lippert, Frederick A., assignor to Wenborne-Karpen Dryer Co., Chicago, Ill. Drying-room. No. 1,303,078; May 6; v. 262; p. 114.
- Lippert, Joseph, Brooklyn, N. Y. Scratch-gage. No. 1,316,584; Sept. 23; v. 266; p. 461.
- Lippert, Samuel, East Cleveland, Ohio. Thermostatic valve. No. 1,302,938; May 6; v. 262; p. 87.
- Lippert, Samuel, East Cleveland, Ohio. Thermal valve and trap for wet lines. No. 1,310,026; July 15; v. 264; p. 438.
- Lippert, Samuel, East Cleveland, Ohio. Compressing-engine. No. 1,324,056; Dec. 9; v. 269; p. 201.
- Lippert, Walter E. (See Ireland and Lippert.)
- Lippincott, Carrie A. (See Lippincott, John W., assignor.)
- Lippincott Company, The. (See Buzatt, Walter, assignor.)
- Lippincott, Fisher H., Philadelphia, Pa. Pencil. No. 1,324,971; Dec. 16; v. 269; p. 436.
- Lippincott, Fisher H., assignor to A. H. and F. H. Lippincott, Philadelphia, Pa. Cable-clamp. No. 1,318,501; Oct. 14; v. 267; p. 222.
- Lippincott, John W., assignor of one-half to C. A. Lippincott, Little Rock, Ark. Airship. No. 1,319,677; Oct. 21; v. 267; p. 471.
- Lippincott, Roy A., and E. F. Billson, Melbourne, Victoria, Australia. Fastener for hinged structures. No. 1,297,195; Mar. 11; v. 260; p. 346.
- Lippman, Joseph, et al. (See Dickerson, Arthur, assignor.)
- Lippold, Henry, Erie, Pa. Method of and machine for castellating nuts. No. 1,292,821; Jan. 28; v. 258; p. 749.
- Lipps, Emory J., Fountain Hill borough, Pa. Uniting textile strands. No. 1,302,187; Apr. 29; v. 261; p. 879.
- Lipps, Morris, New York, N. Y. Couch or divan. No. 1,304,579; May 27; v. 262; p. 498.
- Lipson, Abraham. (See Sills, Berton H., assignor.)
- Liptak, Michael, Minneapolis, Minn. Furnace-arch for boilers. No. 1,326,752; Dec. 30; v. 269; p. 823.
- Liptak, Michael, St. Paul, Minn. Furnace-arch for boilers. No. 1,326,753; Dec. 30; v. 269; p. 823.
- Liquid Carbonic Company. (See Eckert, Adolph, assignor.)
- Liquid Carbonic Company. (See Smith, Horace M., assignor.)
- Lisenby, Carl A., et al. (See Cottrill, Kenyon, assignor.)
- Lisenby, Carl A., et al. (See Jansen, Jesse, Jr., assignor.)
- Lisenby Mfg. Co. (See Fiese, Jesse T., assignor.)
- Lisk, Joseph P. (See Smith and Lisk.)
- Lissman, Marcel, Sacramento, Calif. Tractor. No. 1,323,704; Dec. 2; v. 269; p. 90.
- Lister, Charles H., assignor to Minnesota Manufacturers' Association, North St. Paul, Minn. Furnace. No. 1,295,535; Feb. 25; v. 259; p. 684.
- Lister, Charles H., assignor to Minnesota Manufacturers' Association, North St. Paul, Minn. Spiral chute. No. 1,312,995; Aug. 12; v. 265; p. 249.
- Lister, George, Tow Law, England. Chimney-pot, flue-top, and the like. No. 1,312,996; Aug. 12; v. 265; p. 249.
- Lister, John T., near Wellington, Ohio. Inner tubular support for pneumatic tires. No. 1,291,948; Jan. 21; v. 258; p. 518.
- Lister, John T., Cleveland, Ohio. Machine for making rubberized fabric tubes and strips. No. 1,304,995; May 27; v. 262; p. 575.
- Lister, John T., Cleveland, Ohio. Hose-making machine. No. 1,316,052; Sept. 16; v. 266; p. 312.
- Liston, James C., Chatsworth, Ill. Alarm and releasing attachment for windows. No. 1,306,702; June 17; v. 263; p. 340.
- Listoski, Thomas. (See Nikel and Listoski.)
- Litchfield, Edgar C., and C. E. Shiplet, assignors to H. L. Litchfield and E. C. Litchfield, Waterloo, Iowa. Manure-spreader. No. 1,322,031; Nov. 18; v. 268; p. 429.
- Litchfield, Henry L., et al. (See Litchfield and Shiplet, assignors.)
- Litchfield, Henry L., and C. E. Shiplet, assignors to The Litchfield Manufacturing Company, Waterloo, Iowa. Actuator for clutches and other devices. No. 1,294,496; Feb. 18; v. 259; p. 421.
- Litchfield, Henry L., and C. E. Shiplet, assignors to The Litchfield Manufacturing Company, Waterloo, Iowa. Composite metal wheel. No. 1,297,973; Mar. 18; v. 260; p. 541.
- Litchfield, Henry L., and V. Speer, Waterloo, Iowa; said Speer assignor to said Litchfield. Straw-spreader. No. 1,313,637; Aug. 19; v. 265; p. 388.
- Litchfield, Henry L., and V. Speer, Waterloo, Iowa; said Speer assignor to said Litchfield. Spreader. No. 1,313,638; Aug. 19; v. 265; p. 388.
- Litchfield, Lewis L., Scarborough, Me. Letter-sealing press. No. 1,325,895; Dec. 23; v. 269; p. 625.
- Litchfield Manufacturing Company, The. (See Litchfield and Shiplet, assignors.)
- Littell, William S., Spokane, Wash. Crank or cam shaft alignment indicator and straightener. No. 1,308,501; July 1; v. 264; p. 90.
- Litter, Fredrick A., Columbus, Ohio. Automatic pressure-regulator. No. 1,320,879; Nov. 4; v. 268; p. 88.
- Little, Alfred A., New York, N. Y. Stop-signal for automobiles. No. 1,290,601; Jan. 7; v. 258; p. 141.
- Little, Arthur D. (See Swett, Charles E., assignor.)
- Little, Benjamin F., Cordele, Ga. Kitchen-cabinet. No. 1,316,489; Sept. 16; v. 266; p. 394.
- Little, Charles C., San Jose, Calif. Carbureters. No. 1,319,158; Oct. 21; v. 267; p. 373.
- Little, Frederick B., Chicago, Ill. Electric-current-controlling device. No. 1,319,880; Oct. 28; v. 267; p. 533.
- Little, Frederick B., assignor, by mesne assignments, to J. C. Deagan, Inc., Chicago, Ill. Coupler for electrical musical instruments. No. 1,291,568; Jan. 14; v. 258; p. 393.
- Little, George M., assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Starting device for arc-lamps. No. 1,308,087; July 1; v. 264; p. 15.
- Little, Harold E., Troy, N. Y. Rotary engine or pump. No. 1,305,133; May 27; v. 262; p. 601.
- Little, Herbert L., Jeffersonville, Ohio. Hog-oiler. No. 1,295,908; Mar. 4; v. 260; p. 20.
- Little, Ivan B., North Manchester, Ind. Wick-extractor. No. 1,296,413; Mar. 4; v. 260; p. 134.
- Little, James A., and C. P. Blum, Bismarck, N. D. Canning and drying apparatus. No. 1,301,286; Apr. 22; v. 261; p. 678.
- Little, Lillian A. (See Bowen, Philip A., assignor.)
- Little, Orton C., Menasha, Wis. Humidifier. No. 1,312,997; Aug. 12; v. 265; p. 249.
- Little, Rennie G., Manchester, N. H. Plug. No. 1,322,493; Nov. 18; v. 268; p. 517.
- Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Process and apparatus for the treatment of plastic substances. No. 1,297,482; Mar. 18; v. 260; p. 435.
- Little, Willard R. (See Jorgensen, Cleah and J. J., assignors.)
- Littlefield, Augustine F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,312,637; Aug. 12; v. 265; p. 179.
- Littlejohn, Charles F. (See Boyd and Littlejohn.)
- Littlejohn, Lonzo B., Wortham, Tex. Four-wheel drive mechanism. No. 1,295,335; Feb. 25; v. 259; p. 637.
- Litzenberg, Otto W., assignor to Columbia Wood Tool Company, Inc., New York, N. Y. Toy. No. 1,325,098; Dec. 16; v. 269; p. 460.
- Litzenberg, William R., Los Angeles, Cal. Auto-wheel chock. No. 1,292,822; Jan. 28; v. 258; p. 749.
- Live Leather Belt Co. (See Heilmann, Leon, assignor.)
- Lively, Frank J., et al. (See Brown, Charles, assignor.)



## Alphabetical list of patentees—Continued.

- Lively, William, Quanah, Tex. Pump-jack. No. 1,301,856; Apr. 29; v. 261; p. 817.
- Livengood, Samuel E., Castana, Iowa. Cutting mechanism for mowers, reapers, and the like. No. 1,314,527; Sept. 2; v. 266; p. 10.
- Livengood, Winfield S., assignor to A. A. Kramer, Kansas City, Mo. Truck-hoist. No. 1,312,489; Aug. 5; v. 265; p. 119.
- Livengood, Winfield S., assignor to A. A. Kramer, Kansas City, Mo. Self-closing valve. No. 1,316,906; Sept. 23; v. 266; p. 520.
- Livens, William H., Hampstead, London, England. Mortar. No. 1,303,079; May 6; v. 262; p. 114.
- Livens, William H., Hampstead, London, England. Projectile. No. 1,306,265; June 10; v. 263; p. 227.
- Liversedge, Alfred J., London, England. Dirigible airship. No. 1,300,746; Apr. 15; v. 261; p. 527.
- Livesay, Everett G., Princeton, W. Va. Vehicle-wheel-elevating device. No. 1,292,823; Jan. 28; v. 258; p. 749.
- Livesey, Olin W., San Jose, Cal. Automatic locking-switch and signal. No. 1,291,569; Jan. 14; v. 258; p. 394.
- Livestock Individual Drinking Fountain Company. (See Lewis, John M. B., assignor.)
- Livingston, Clessie D., Millport, Ala. Syringe. No. 1,291,570; Jan. 14; v. 258; p. 394.
- Livingston, D. M. (See Keegan, Francis W., assignor.)
- Livingston, D. M., New York, N. Y. Attachment for automobiles. No. 1,298,523; Mar. 25; v. 260; p. 685.
- Livingston, Samuel O. (See De Koning and Livingston.)
- Ljungdell, Karl W., Malmö, Sweden. Apparatus for launching ships. No. 1,299,363; Apr. 1; v. 261; p. 169.
- Ljungdell, Karl W., Malmö, Sweden. Building of concrete ships, lighters, and other concrete constructions. No. 1,320,880; Nov. 4; v. 268; p. 98.
- Ljunggren, Edward, Fayetteville, N. Y. Machine for making drills. No. 1,302,685; May 6; v. 262; p. 39.
- Ljungström, Fredrik, Stockholm, Sweden, assignor to Aktiebolaget Ljungströms Angturbin. Elastic-fluid turbine. No. 1,318,091; Oct. 7; v. 267; p. 82.
- Ljungström, Fredrik, Brevik, Lidingö, Sweden, assignor to Aktiebolaget Ljungströms Angturbin. Elastic-fluid turbine. No. 1,322,030; Nov. 18; v. 268; p. 429.
- Llewellyn, John T., Fort Worth, Tex. Dispensing apparatus. No. 1,320,250; Oct. 28; v. 267; p. 602.
- Lloyd, Cecil E., Pensacola, Fla. Adjustably-engaging support. No. 1,323,599; Dec. 2; v. 269; p. 70.
- Lloyd, Charles E. H., Los Angeles, Calif. Spraying-nozzle for internal-combustion engines. No. 1,301,719; Apr. 22; v. 261; p. 760.
- Lloyd, Harry S. (See Bullock and Lloyd.)
- Lloyd, Harvey. (See Hyatt and Lloyd.)
- Lloyd, Herbert D., Kent, Conn., assignor to Trailer Transportation Company, New York, N. Y. Trailer-vehicle. No. 1,299,973; Apr. 8; v. 261; p. 335.
- Lloyd, John U., Cincinnati, Ohio. Extracting, purifying, or excluding alkaloids and alkaloidal salts. No. 1,300,747; Apr. 15; v. 261; p. 527.
- Lloyd Manufacturing Company, The. (See Lloyd, Marshall B., assignor.)
- Lloyd, Marshall B., Menominee, Mich. Producing woven-reed articles. No. 1,298,230; Mar. 25; v. 260; p. 621.
- Lloyd, Marshall B., Menominee, Mich. Producing woven-reed articles. No. 1,298,231; Mar. 25; v. 260; p. 622.
- Lloyd, Marshall B., Menominee, Mich. Producing woven-reed articles. No. 1,298,232; Mar. 25; v. 260; p. 622.
- Lloyd, Marshall B., Menominee, Mich. Producing woven-reed articles. No. 1,298,233; Mar. 25; v. 260; p. 622.
- Lloyd, Marshall B., assignor to The Lloyd Manufacturing Company, Menominee, Mich. Perambulator. No. 1,319,479; Oct. 21; v. 267; p. 434.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, of one-half to The Elyria Iron & Steel Company, Elyria, Ohio, and one-half to The Standard Parts Company, Welding device. No. 1,293,486; Feb. 4; v. 259; p. 119.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, of one-half to The Elyria Iron & Steel Company, Elyria, Ohio, and one-half to The Standard Parts Company, Continuous propelling-vice for tube-making machines. No. 1,321,463; Nov. 11; v. 268; p. 273.
- Lloyd, Richard A. (See Miller and Lloyd.)
- Lloyd, Richard L. (See Dwight and Lloyd.)
- Lloyd, Richard L., assignor to Dwight & Lloyd Metal-lurgical Company, New York, N. Y. Separation of materials by gravity. No. 1,310,998; July 22; v. 264; p. 647.
- Lloyd, Richard L., Minneapolis, Minn. Game. No. 1,326,071; Dec. 23; v. 269; p. 658.
- Lloyd, Richard L., Minneapolis, Minn., and R. D. Simpson, Columbus, Ohio, assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Marking buttonhole locations on shoe-flies. No. 1,325,646; Dec. 23; v. 269; p. 579.
- Lloyd, William G., Lynn, Mass. Merry-go-round. No. 1,293,821; Feb. 11; v. 259; p. 228.
- Lloyd, William H., Chillicothe, Ohio. Combination ironing-table. No. 1,319,595; Oct. 21; v. 267; p. 456.
- Lo Cascio, Pasquale, Brooklyn, N. Y. Permutation-padlock. No. 1,312,790; Aug. 12; v. 265; p. 208.
- Loach, William, Oshawa, Ontario, Canada. Expanded-metal product. No. 1,320,332; Oct. 28; v. 267; p. 617.
- Lobar, Abraham J., New York, N. Y. Separable button. No. 1,302,390; Apr. 29; v. 261; p. 918.
- Lobar, Abraham J., New York, N. Y. Combined suspender and brace. No. 1,317,928; Oct. 7; v. 267; p. 51.
- Lobar, Abraham J., New York, N. Y., assignor of one-third to A. C. Payer, Detroit, Mich., and one-third to W. Stevenson, Buffalo, N. Y. Button. No. 1,292,338; Jan. 21; v. 258; p. 613.
- Lobdell, Wilbur S., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Hand-truck. No. 1,296,675; Mar. 11; v. 260; p. 229.
- Lobel, Herman, assignor of one-half to M. Allen, Los Angeles, Calif. Self-cleaning grouter for tractor-wheels. No. 1,319,231; Oct. 21; v. 297; p. 386.
- Lober, George H., Toledo, Ohio. Automobile-radiator. No. 1,313,492; Aug. 19; v. 265; p. 360.
- Lobo, Francisco, Brooklyn, N. Y. Internal-combustion turbine-engine. No. 1,296,980; Mar. 11; v. 260; p. 299.
- Lobsinger, Rudolph. (See Allen, James M., assignor.)
- Lochridge, Eleanor A., Long Beach, Calif. Doll and making same. No. 1,308,432; July 1; v. 264; p. 77.
- Lock, John H., Detroit, Mich. Means for controlling vehicle-trains. No. 1,302,686; May 6; v. 262; p. 39.
- Lock Joint Pipe Company. (See Mitchell, Bartram, and Hirsh, assignors.)
- Locke, Albert R., Chicago, Ill. System for operating doors. No. 1,322,704; Nov. 25; v. 268; p. 608.
- Locke, Daniel, Summerfield, Kans. Tension device. No. 1,303,486; May 15; v. 262; p. 217.
- Locke, Edmund, Beverly Hills, Calif. Dry-lime liner. No. 1,322,705; Nov. 25; v. 268; p. 608.
- Locke, Frank L. B., Harpenden, England. Machine for the manufacture of candles and the like. No. 1,312,189; Aug. 5; v. 265; p. 63.
- Locke, John L., Indianapolis, Ind. Soap-dissolver. No. 1,295,536; Feb. 25; v. 259; p. 684.
- Locke, William C. (See Dreyling, Alfred, assignor.)
- Locke, William D., Massillon, Ohio. Scaling device. No. 1,317,714; Oct. 7; v. 267; p. 10.
- Lockhart, Andrew B., Redlands, Calif., assignor of one-half to E. G. Siggers, Washington, D. C. Bearing-shim vise. No. 1,315,372; Sept. 9; v. 266; p. 174.
- Lockhart, Charles F. (See Munhollon, Frank, assignor.)
- Lockhart, Charles F., and E. H. Roby, Cleveland, Ohio. Washing-machine. No. 1,316,963; Sept. 23; v. 266; p. 530.
- Lockhart, George, New York, N. Y. Submarine. No. 1,290,259; Jan. 7; v. 258; p. 59.
- Lockhart, James F., assignor to S. L. Lockhart, Kansas City, Mo. Cooking vessel for exhaust-pipes of internal-combustion engines. No. 1,314,004; Aug. 26; v. 265; p. 491.
- Lockhart, S. L. (See Lockhart, James F., assignor.)
- Lockhart, T. M., et al. (See Sartain, Louis M., assignor.)
- Lockhart, Walter R., Delta, Colo. Figure toy. No. 1,294,128; Feb. 11; v. 259; p. 300.
- Lockhart, Walter R., Brooklyn, N. Y. Legging. No. 1,317,167; Sept. 30; v. 266; p. 606.
- Lockhart, William S. (See Klink, Charles, assignor.)
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Ball-cage for roller-bearings. No. 1,297,579; Mar. 18; v. 260; p. 456.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Composite roller-bearing. No. 1,304,073; May 20; v. 262; p. 362.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Oscillating-bur machine. No. 1,304,526; May 20; v. 262; p. 450.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Cage for tubular rolls. No. 1,307,262; June 17; v. 263; p. 442.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Cage with locking space-bars. No. 1,318,092; Oct. 7; v. 267; p. 82.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Roller-bearing with regulator-collar. No. 1,324,833; Dec. 16; v. 269; p. 411.
- Lockwood, Edward M., Philadelphia, Pa., assignor to C. R. Carver Company. Winding device for wiping webs of embossing printing-machines. No. 1,310,195; July 15; v. 264; p. 468.
- Lockwood Folding Company. (See Saybolt, Chester A., assignor.)
- Lockwood, Louis S., Buffalo, assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Double-tracker musical instrument. No. 1,314,068; Aug. 26; v. 265; p. 502.
- Lockwood, Marquis H., New York, and H. Nias, assignors to Public Service Cup Company, Brooklyn, N. Y. Dispensing-machine. No. 1,311,170; July 29; v. 264; p. 712.
- Lockyer, John C. (See Carroll and Lockyer.)
- Locomobile Company of America, The. (See Edge, Howard H., assignor.)



- Locomobile Company of America, The. (See Houston and Heiman, assignors.)
- Locomobile Company of America, The. (See Riker, Andrew L., assignor.)
- Locomobile Company of America, The. (See Ross, Delmar G., assignor.)
- Locomobile Company of America, The. (See Schulz, Albert C., assignor.)
- Locomobile Company of America, The. (See Tillman, John R., assignor.)
- Locomotive Feed Water Heater Company. (See Averill, Earl A., assignor.)
- Locomotive Stoker Company. (See Chalker, Albert R., assignor.)
- Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
- Locomotive Stoker Company. (See Ryan, Edward, assignor.)
- Locomotive Superheater Company. (See Barnes and Schofield, assignors.)
- Locomotive Superheater Company. (See Broido, Benjamin, assignor.)
- Locomotive Superheater Company. (See Eggers, Julius, assignor.)
- Locomotive Superheater Company. (See Eggers and Thomsen, assignors.)
- Locomotive Superheater Company. (See McKee, Neal T., assignor.)
- Locomotive Superheater Company. (See Ostermann, Rudolf M., assignor.)
- Locomotive Superheater Company. (See Poignand, Francis N., assignor.)
- Locomotive Superheater Company. (See Prescott, Charles F., assignor.)
- Locomotive Superheater Company. (See True, Charles H., assignor.)
- Locomotive Superheater Company. (See Vincent and Mohun, assignors.) (Reissue.)
- Locraft, James B., Washington, D. C. Holding means for portable apparatus. No. 1,313,307; Aug. 19; v. 265; p. 325.
- Lodding, Frederick W. (See Johnson and Lodding.)
- Loder, Charles C., Dayton, Ky., assignor of one-fourth to G. Haffner, one-fourth to L. Haffner and one-fourth to E. Haffner, Cincinnati, Ohio. Furnace. No. 1,325,522; Dec. 23; v. 269; p. 556.
- Lodge, Edmund G., Philadelphia, Pa. Gas-regulator. No. 1,300,982; Apr. 15; v. 261; p. 577.
- Lodge, Lionel. (See Lodge, Oliver J. and L.)
- Lodge, Oliver J., and L. Edgbaston, Birmingham, England. Obtaining of unidirectional high-tension discharges. No. 1,307,742; June 24; v. 263; p. 563.
- Lodge, Oscar, New Brighton, Pa. Tractor. No. 1,305,385; June 3; v. 263; p. 29.
- Lodge & Shipley Machine Tool Company, The. (See Cockburn, Francis B., assignor.)
- Lodge & Shipley Machine Tool Company, The. (See Cockburn and Carlton, assignors.)
- Loe Multiplex Voting Machine Company. (See Loe, Syver, assignor.)
- Loe, Paul, East Stanwood, Wash. Window for vehicle-curtains. No. 1,317,512; Sept. 30; v. 266; p. 671.
- Loe, Syver, assignor to Loe Multiplex Voting Machine Company, Minneapolis, Minn. Keyboard mechanism for voting-machines. No. 1,304,580; May 27; v. 262; p. 498.
- Loe, Syver, assignor to Loe Multiplex Voting Machine Company, Minneapolis, Minn. Register-reading scale for voting-machines. No. 1,304,581; May 27; v. 262; p. 498.
- Loe, Syver, assignor to Loe Multiplex Voting Machine Company, Minneapolis, Minn. Primary-election mechanism for voting-machines. No. 1,305,134; May 27; v. 262; p. 601.
- Loe, Syver, assignor to Loe Multiplex Voting Machine Company, Minneapolis, Minn. Voting-machine. No. 1,307,098; June 17; v. 263; p. 413.
- Loe, Syver, assignor, by direct and mesne assignments, to Loe Multiplex Voting Machine Company, Minneapolis, Minn. Second-choice-voting mechanism. No. 1,310,196; July 15; v. 264; p. 468.
- Loeb, H. W., et al., executors. (See Hubert, Henry J., assignor.)
- Loeb, Leo, New York, N. Y. Pneumatic tire. No. 1,292,405; Jan. 21; v. 258; p. 627.
- Loeb, Louis, New York, N. Y. Watchcase. No. 1,320,251; Oct. 28; v. 267; p. 602.
- Loeben, Gustave A., Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del. Device for dispensing liquid or plastic materials. No. 1,299,487; Apr. 8; v. 261; p. 226.
- Loeffler, John V., Evansville, Ind. Auxiliary rim and tire. No. 1,296,539; Mar. 4; v. 260; p. 162.
- Loeffler, William, Sheboygan, Wis. Chair-iron. No. 1,316,621; Sept. 23; v. 266; p. 468.
- Loen, Andrew O., Howard, S. D. Threshing-machine. No. 1,291,571; Jan. 14; v. 258; p. 394.
- Loepsinger, Albert J., Edgewood, assignor to General Fire Extinguisher Company, Providence, R. I. Automatic sprinkler. No. 1,290,602; Jan. 7; v. 258; p. 142.
- Loepsinger, Albert J., Edgewood, assignor to General Fire Extinguisher Company, Providence, R. I. Automatic sprinkler. No. 1,290,762; Jan. 7; v. 258; p. 181.
- Loepsinger, Albert J., Edgewood, assignor to General Fire Extinguisher Company, Providence, R. I. Automatic sprinkler system. No. 1,305,912; June 3; v. 263; p. 129.
- Loeser, Edward G., Milwaukee, Wis. Resilient wheel. No. 1,318,393; Oct. 14; v. 267; p. 201.
- Loetzer, Christian E., and C. C. West, Sayre, Pa.; said Loetzer assignor to said West. Gage-holder for gasoline-engines. No. 1,321,929; Nov. 18; v. 268; p. 411.
- Loew, Charles H., and J. R. Gruetter, assignors to The Loew Manufacturing Company, Cleveland, Ohio. Bottle washer. No. 1,313,706; Aug. 19; v. 265; p. 400.
- Loew Manufacturing Company, The. (See Gruetter, John R., assignor.)
- Loew Manufacturing Company. (See Loew and Gruetter, assignors.)
- Loewenbach, Hugo, Milwaukee, Wis. Bowling-alley. No. 1,293,487; Feb. 4; v. 259; p. 119.
- Loewenbach, Oscar, assignor to B. Loewenbach & Sons Co., Inc., Milwaukee, Wis. Duplicating device. No. 1,322,314; Nov. 18; v. 268; p. 482.
- Loewenberg, Isador B., Converse, Ind. Basket-handle. No. 1,310,356; July 15; v. 264; p. 497.
- Loewenherz, Emanuel, Chicago, Ill. Tooth-cleaning device. No. 1,312,334; Aug. 5; v. 265; p. 89.
- Loewenstein, Louis C., Lynn, Mass., assignor to General Electric Company. Turbine-driven electric-generator set. No. 1,302,060; Apr. 29; v. 261; p. 856.
- Loewenstein, Louis C., Lynn, Mass., assignor to General Electric Company. Volume-corrector. No. 1,313,099; Aug. 12; v. 265; p. 269.
- Loewenstein, Louis C., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. No. 1,325,255; Dec. 16; v. 269; p. 489.
- Loewenthal, Ben, et al. (See Wilhelm and Posdal, assignors.)
- Loewenthal, Marcus, New York, N. Y. Picture-frame. No. 1,321,650; Nov. 11; v. 268; p. 307.
- Loffland, Roy. (See Stahl, Benjamin, Griffith, and Loffland.)
- Löfgren, Albert O., Stockholm, Sweden. Portable sawing mechanism. No. 1,303,809; May 13; v. 262; p. 276.
- Lofgren, David, Sioux Falls, assignor of one-half to W. A. Sloan, Minnehaha county, S. D. Protector for radiators. No. 1,291,038; Jan. 14; v. 258; p. 270.
- Lofgren, John, assignor to Ralco Manufacturing Company, Chicago, Ill. Electrical connector. No. 1,304,075; May 20; v. 262; p. 363.
- Lofgren, Thomas N. (See Hull and Lofgren.)
- Lofgore, Gaetan, Greenwich, Conn. Automobile attachment. No. 1,315,138; Sept. 2; v. 266; p. 121.
- Loftsgaarden, Albert T., assignor to Powell Manufacturing Company, Powell, Wyo. Door check and closer. No. 1,304,333; May 20; v. 262; p. 411.
- Logan, Eugene W., et al. (See Young, Albert H., assignor.)
- Logan, Humphrey T., London, England. Machine-gun and the like. No. 1,318,214; Oct. 7; v. 267; p. 106.
- Logan, John I., Chicago, Ill. Treating grain. No. 1,307,367; June 24; v. 263; p. 495.
- Logan, John I., Chicago, Ill., assignor to Industrial Appliance Company. Valve. No. 1,316,585; Sept. 23; v. 266; p. 461.
- Logan, Judson C., assignor to Foster, Merriam & Company, Meriden, Conn. Roller-bearing caster. No. 1,316,622; Sept. 23; v. 266; p. 468.
- Logan, Judson C., assignor to Foster, Merriam & Company, Meriden, Conn. Handle for cooking utensils. No. 1,316,623; Sept. 23; v. 266; p. 468.
- Logan, Oscar L., assignor of one-half to Everett W. Wheeler, Longmont, Colo. Vehicle-signal. No. 1,320,252; Oct. 28; v. 267; p. 602.
- Logan, Samuel D., Columbia, Tenn. Wardrobe-suitcase. No. 1,292,493; Jan. 28; v. 258; p. 670.
- Logan, Thomas P., Columbus, Ohio. Manifold-heater. No. 1,312,554; Aug. 12; v. 265; p. 161.
- Logan, William J., Cleveland, Ohio. Powdering-machine for plates to be etched. No. 1,290,603; Jan. 7; v. 258; p. 142.
- Logeman, Charles F., Somerset West, near Cape Town, Cape Province, South Africa. Tweezers for surgical operations. No. 1,294,284; Feb. 11; v. 259; p. 336.
- Logeman, Charles F., Somerset West, Cape Colony, South Africa. Fishing-line sinker. No. 1,322,706; Nov. 25; v. 268; p. 608.
- Logue, Charles H. (See Ormsby and Logue.)
- Logusz, Wasyl, St. Louis, Mo. Submarine. No. 1,294,922; Feb. 18; v. 259; p. 521.
- Lohec, Joseph C., San Antonio, Tex. Valve-grinding device. No. 1,293,133; Feb. 4; v. 259; p. 37.
- Lohman, Carl A., Seattle, Wash. Dry-kiln. No. 1,294,129; Feb. 11; v. 259; p. 300.
- Lohmeyer, Henry H., Ambrose, N. D. Traction device for motor-vehicles. No. 1,296,981; Mar. 11; v. 260; p. 300.
- Lohnes, Lester F., Riverside, Ill. Adjustable and removable Pitot tube. No. 1,295,046; Feb. 18; v. 259; p. 548.
- Lohnes, Livingston, Boston, Mass. Headlight. No. 1,309,644; July 15; v. 264; p. 368.



## Alphabetical list of patentees—Continued.

- Lehr, Charles E., and E. Hipple, Cleveland, Ohio. Brake. No. 1,292,824; Jan. 28; v. 258; p. 750.
- Lohr, Harvey A. (See Wagner, Lohr, and Boerngen.)
- Lobrens, Louis F., Chicago, Ill. Burglar-alarm lock and door-bell. No. 1,296,982; Mar. 11; v. 260; p. 300.
- Lohse, John C., Glen Ridge, N. J. Attachment for furnaces. No. 1,325,329; Dec. 16; v. 269; p. 503.
- Lokaj, Antoni, Northampton, Pa. Mousetrap. No. 1,333,399; Dec. 2; v. 269; p. 33.
- Lokaj, Antoni, Northampton, Pa. Animal-trap. No. 1,323,400; Dec. 2; v. 269; p. 33.
- Lokan, August, Astoria, Oreg., assignor to E. W. Bliss Company, Brooklyn, N. Y. Can-making machine. No. 1,317,929; Oct. 7; v. 267; p. 51.
- Loken, Andrew, Harvey, N. D. Rotary air-compressor. No. 1,321,764; Nov. 11; v. 268; p. 329.
- Loken, Truls, Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Excavator-bucket cleaner. No. 1,298,978; Apr. 1; v. 261; p. 84.
- Lokoy, Charles W., Birmingham, Ala. Fastening for removable dental bridges and bridge-plates. No. 1,299,364; Apr. 1; v. 261; p. 170.
- Lokoy, Charles W., Birmingham, Ala. Leak-detector for pneumatic-tire valves. No. 1,313,493; Aug. 19; v. 265; p. 360.
- Lole, Alfred E., Jacksdale, England. Rotary pump and the like. No. 1,291,037; Jan. 14; v. 258; p. 270.
- Lomax, Essex L., Washington, D. C. Churn. No. 1,320,881; Nov. 4; v. 268; p. 98.
- Lombard Governor Company, The. (See Warren, Henry E., assignor.)
- Lombard, Levi W., Waltham, Mass. Can-cover-applying mechanism. No. 1,296,537; Mar. 4; v. 260; p. 161.
- Lombard, Nathaniel, Worcester, Mass., assignor to International Paper Company. Machine for barking wood. No. 1,300,748; Apr. 15; v. 261; p. 527.
- Lombard, Nathaniel, assignor to Holyoke Machine Company, Worcester, Mass. Speed-controlling mechanism. No. 1,305,386; June 3; v. 263; p. 30.
- Lombardi, Cyrus, Coney Island, and J. Marcus, East New York, N. Y. Blindstitching attachment for sewing-machines. No. 1,314,820; Sept. 2; v. 266; p. 65.
- Lombardo, Charles, Waterford, N. J. Window-fastener. No. 1,302,687; May 6; v. 262; p. 39.
- Lombardo, Charles, Waterford, N. J. Automobile-signal. No. 1,311,408; July 29; v. 264; p. 757.
- Lomen, Ralph (See Heitman, John, assignor.)
- Londick, John H., Toledo, Ohio. Liquid-dispensing apparatus. No. 1,308,547; July 1; v. 264; p. 98.
- London, Charles E., Steveston, British Columbia, Canada. Apparatus for salvaging sunken vessels. No. 1,296,983; Mar. 11; v. 260; p. 300.
- London, William J. A., Springfield, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 1,297,878; Mar. 18; v. 260; p. 520.
- London, William J. A., Springfield, Mass., assignor to General Electric Company. Packing. No. 1,316,964; Sept. 23; v. 266; p. 331.
- London, William J. A., Springfield, and E. M. Phillips, Lynn, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 1,298,524; Mar. 25; v. 260; p. 685.
- Loneragan, Christopher H., Ensley, Ala. Miner's-check protector. No. 1,322,912; Nov. 25; v. 268; p. 646.
- Loneragan, Edward F., Millburn, assignor of one-half to H. P. Glover, Short Hills, N. J. Toy aeroplane. No. 1,315,606; Sept. 9; v. 266; p. 216.
- Loney, David, Davenport, Iowa. Safety grip-hook. No. 1,305,135; May 27; v. 262; p. 601.
- Long & Allstatter Company, The. See Pater, Paul G., assignor.)
- Long, Charles J., assignor to Andrew's Mill Company, Philadelphia, Pa. Protector mechanism for looms. No. 1,296,676; Mar. 11; v. 260; p. 229.
- Long, Charles R. A., Indianapolis, Ind. Window-ventilator. No. 1,300,850; Apr. 15; v. 261; p. 549.
- Long, Charles S., Toledo, Ohio. Planter. No. 1,296,540; Mar. 4; v. 260; p. 162.
- Long, David P., and D. G. Peterson, Portland, Oreg. Sanitary pouring-spout for containers. No. 1,306,263; June 10; v. 263; p. 227.
- Long, Dewey F. (See Long, Emanuel B. and D. F.)
- Long, Edward C. (See Miller and Long.)
- Long, Edward I., Mayer, Ariz. Refrigerator. No. 1,307,302; June 17; v. 263; p. 450.
- Long, Eli M., assignor to The Standard Optical Company, Geneva, N. Y. Edge-grinding machine for lenses. No. 1,298,979; Apr. 1; v. 261; p. 84.
- Long, Ellis B., Mount Washington, Md. Method and apparatus for shelling timing-rings of shrapnel-fuses. No. 1,291,949; Jan. 21; v. 258; p. 518.
- Long, Emanuel B. and D. F., Crane Valley, Saskatchewan, Canada. Farm-gate. No. 1,300,284; Apr. 15; v. 261; p. 429.
- Long, Eugene M., New York, N. Y. Concrete girder. No. 1,320,072; Oct. 28; v. 267; p. 569.
- Long, Frank B., Los Angeles, Calif., assignor to Soloelle Company, Inc., New York, N. Y. Player-piano. No. 1,325,523; Dec. 23; v. 269; p. 556.
- Long, Fred A. (See Anderson, Samuel R., assignor.)
- Long, George A., Boston, Mass. Salvaging apparatus. No. 1,324,425; Dec. 9; v. 269; p. 272.
- Long, George F., New York, N. Y. Bumper for automobiles. No. 1,305,292; June 3; v. 263; p. 12.
- Long, George F., assignor to G. Piel, New York, N. Y. Automobile-horn. No. 1,300,425; Apr. 15; v. 261; p. 459.
- Long, George F., New York, N. Y. Muffler cut-out. No. 1,320,627; Nov. 4; v. 268; p. 50.
- Long, George N., Watervliet, N. Y. Firearm-sight. No. 1,307,912; June 24; v. 263; p. 594.
- Long, George R. (See Cordley and Long.)
- Long, Harry, Douglas county, Wash. Tug-holder. No. 1,317,168; Sept. 30; v. 266; p. 606.
- Long, Herbert J., assignor to The Long-Landreth-Schneider Company, New Brunswick, N. J. Emergency fuel-valve control. No. 1,325,896; Dec. 23; v. 269; p. 626.
- Long, Hollis B., Nashville, Tenn. Sprinkler-head. No. 1,306,490; June 10; v. 263; p. 268.
- Long, James F., San Antonio, Tex. Diving-armor. No. 1,305,656; June 3; v. 263; p. 81.
- Long, James O., Cedar Rapids, Iowa. Sash-lock. No. 1,304,334; May 20; v. 262; p. 411.
- Long, Jeremiah C., Everett, Mass. Tire-alarm. No. 1,294,923; Feb. 18; v. 259; p. 521.
- Long, John, and P. A. Pederson, Rockville, Mo. Farm-gate, latch, and hinge-mounting therefor. No. 1,325,652; Dec. 23; v. 269; p. 580.
- Long, John R., East Akron, Ohio. Automatic machine-vise. No. 1,299,488; Apr. 8; v. 261; p. 226.
- Long, John R., Akron, Ohio. Machinist's vise. No. 1,303,693; May 13; v. 262; p. 254.
- Long, John R., East Akron, assignor to C. A. Thornton, Cuyahoga Falls, Ohio. Shellac-jar. No. 1,318,161; Oct. 7; v. 267; p. 95.
- Long, Joseph H. (See Lowe and Long.)
- Long-Landreth-Schneider Company, The. (See Long, Herbert J., assignor.)
- Long-Landreth-Schneider Company, The. (See Schneider, Frederick D., assignor.)
- Long, Lee. (See Body, Long, Johnson, Kilgore, and Blewins.)
- Long, Lemuel F., et al. (See Christian, Thomas A., assignor.)
- Long Manufacturing Company. (See Kaplan, Henry, assignor.)
- Long Point Creameries Company. (See Mabee, Charles R., assignor.)
- Long, Sidney L., assignor to A. W. Benson Manufacturing Company, Minneapolis, Minn. Dump-controlling mechanism for trucks. No. 1,306,349; June 10; v. 263; p. 243.
- Long, Uriah O., Los Angeles, Calif. Railway-tie. No. 1,306,014; June 10; v. 263; p. 178.
- Long, Willard O., Mansfield, Ohio. Harrow attachment for plows. No. 1,314,678; Sept. 2; v. 266; p. 39.
- Long, Willard O., Mansfield, Ohio. Draw-bar for harrows. No. 1,314,679; Sept. 2; v. 266; p. 39.
- Long, Willard O., Mansfield, Ohio. Draw-bar for harrows. No. 1,314,680; Sept. 2; v. 266; p. 40.
- Long, Willard O., Mansfield, Ohio. Harrow. No. 1,317,169; Sept. 30; v. 266; p. 606.
- Long, William A., Sioux City, Iowa, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone-repeater. No. 1,291,950; Jan. 21; v. 258; p. 519.
- Long, William C., Gordon, Kans. Oil-burner. No. 1,299,843; Apr. 8; v. 261; p. 308.
- Long, William J., Black Hills, Yukon Territory, Canada. Soap-holder. No. 1,301,720; Apr. 22; v. 261; p. 760.
- Long, William J., Kirkwood, Mo. Calendar. No. 1,323,881; Dec. 2; v. 269; p. 123.
- Long, William W., Rocky, Okla. Mail-cabinet. No. 1,316,586; Sept. 23; v. 266; p. 461.
- Longaker, Albert W., V. E. Trager, and R. P. Rordam, Burrwood, La. Antirefillable bottle. No. 1,310,999; July 22; v. 264; p. 647.
- Longest, William B., Louisville, Ky. Priming device for internal-combustion engines. No. 1,300,749; Apr. 15; v. 261; p. 527.
- Longeway, William, Gary, Ind. Tire-armor. No. 1,291,951; Jan. 21; v. 258; p. 519.
- Longley, Lewis E. (See Yoder and Longley.)
- Longoria, Antonio, Cleveland, Ohio, assignor, by mesne assignments, to The Sterling Electrical Corporation Company, a Corporation of Ohio. Electrical apparatus. No. 1,290,604; Jan. 7; v. 258; p. 142.
- Longoria, Antonio, assignor to The Sterling Electrical Corporation Company, Cleveland, Ohio. High-frequency apparatus. No. 1,302,391; Apr. 29; v. 261; p. 919.
- Longoria, Nicholas, Laredo, Tex. Torpedo-controlling apparatus. No. 1,313,100; Aug. 12; v. 265; p. 270.
- Longren, A. K. (See Dove, Frank, assignor.)
- Longren, Albin K., Kansas City, Mo. Turnbuckle. No. 1,321,113; Nov. 11; v. 268; p. 206.
- Longren, Albin K., Kansas City, Mo. Aeroplane-stabilizing mechanism. No. 1,321,114; Nov. 11; v. 268; p. 206.
- Longren, Albin K., Kansas City, Mo., and F. Dove, Topeka, Kans.; said Dove assignor to said Longren. Aeroplane-body construction. No. 1,321,115; Nov. 11; v. 268; p. 206.



- Longthorne, Fred Undercliffe, near Bradford, assignor of one-half to G. H. Leather Limited, Bradford, England. Producing intermittently-dyed yarn. No. 1,311,131; July 22; v. 264; p. 672.
- Lonsdale, John G., et al., executors. (See Hubert, Henry J., assignor.)
- Lontz, John M., Richmond, Ind. Bearing for lawn-mowers. No. 1,298,980; Apr. 1; v. 261; p. 85.
- Lookholter, Esreal, Chicago, Ill. Tire-core. No. 1,326,674; Dec. 30; v. 269; p. 808.
- Lookholter, Esreal, Chicago, Ill. Tie-core. No. 1,326,675; Dec. 30; v. 269; p. 808.
- Loomer, Henry M., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine. No. 1,308,088; July 1; v. 264; p. 15.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,305,136; May 27; v. 262; p. 601.
- Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle bonnet. No. 1,305,137; May 27; v. 262; p. 602.
- Loomis, Alva S., assignor of one-half to E. C. Kambe, Menomonee Falls, Wis. Adjustable spot-light for motor-vehicles. No. 1,317,170; Sept. 30; v. 266; p. 606.
- Loomis, Burdett, assignor to G. L. Loomis, Hartford, Conn. Making cellulose. No. 1,311,980; Aug. 5; v. 265; p. 24.
- Loomis, Everts G., Newark, N. J. Swing-joint. No. 1,297,370; Mar. 18; v. 260; p. 412.
- Loomis, Everts G., Newark, assignor to The Arlington Company, Arlington, N. J. Apparatus for mixing materials with fluids. No. 1,324,774; Dec. 9; v. 269; p. 338.
- Loomis, Grace L. (See Loomis, Burdett, assignor.)
- Loomis, Harry T., and D. Z. Hunt, Brooklyn, N. Y. Puttee. No. 1,300,851; Apr. 15; v. 261; p. 550.
- Loomis, Lyman U., Philipsburg, Mont. Washing-machine. No. 1,321,381; Nov. 11; v. 268; p. 257.
- Loomis, Sydney W. (See Ensteness, Albert J., assignor.)
- Loose, Theron L., assignor to Hendee Manufacturing Company, Springfield, Mass. Ordnance equipment. No. 1,315,139; Sept. 2; v. 266; p. 121.
- Loose Wiles Biscuit Company. (See Lawrence, Edward E., assignor.)
- Lopan, Martin, Winterquarters, Utah. Clothes-line holder. No. 1,292,339; Jan. 21; v. 258; p. 613.
- Lopez, Antonio H. (See Fernandez, Abel, assignor.)
- Lopez, Antonio H., et al. (See Fernandez, Abel, assignor.)
- Lopez, Dalmacio P., San Nicolas, Habana, Cuba. Oil-burner for church-lamps. No. 1,311,569; July 29; v. 264; p. 787.
- López, Dalmacio P., San Nicolas, Cuba. Shaving-brush. No. 1,326,356; Dec. 30; v. 269; p. 747.
- Lopez, Guillermo C., et al. (See Sanchez, Leonardo, assignor.)
- Lopez, Julian C., Habana, Cuba. Antiskidding device. No. 1,297,196; Mar. 11; v. 260; p. 346.
- Lopez, Peter, New York, N. Y. Rotary-gate lock. No. 1,309,645; July 15; v. 264; p. 368.
- Loppacker, Albert, assignor to Eureka Air Compressor Co., Bloomfield, N. J. Air-pump and cleaning device. No. 1,314,277; Aug. 26; v. 265; p. 543.
- Loraille, Marie J. J. L., Paris, France. Elastic-piston pump. No. 1,303,080; May 6; v. 262; p. 114.
- Loranger, Walter L., Highland Park, Mich. Dirigible headlight. No. 1,300,426; Apr. 15; v. 261; p. 459.
- Lorch, William J., Cornwall-on-the-Hudson, N. Y. Supporting means for hose-clamps. No. 1,297,483; Mar. 18; v. 260; p. 436.
- Lord, Franklin L., Jacksonville, Fla. Steering-gear. No. 1,319,159; Oct. 21; v. 267; p. 374.
- Lord, Hugh C., Erie, Pa. Target-trap. No. 1,292,825; Jan. 28; v. 258; p. 750.
- Lorentzen, Hans K., New York, N. Y. Aeroplane and starting device. No. 1,295,537; Feb. 25; v. 259; p. 635.
- Lorenz, Charles F., Cleveland, Ohio, assignor to General Electric Company. Electrical controlling device. No. 1,297,879; Mar. 18; v. 260; p. 520.
- Lorenz, Ed. (See Lorenz, Elmer J., assignor.)
- Lorenz, Edward H. (See Peiler and Lorenz.)
- Lorenz, Edward H., and W. Law, Hartford, Conn., assignors of six-ninths to Beech-Nut Packing Company, Canajoharie, N. Y., two-ninths to W. A. Lorenz, and one-ninth to K. E. Peller, Hartford, Conn. Gum-straining machine. No. 1,296,096; Mar. 4; v. 260; p. 63.
- Lorenz, Elmer J., deceased, Howell, Mich.; S. Lorenz, executor, assignor to E. Lorenz, Esby, N. D. Float-gage. No. 1,323,882; Dec. 2; v. 269; p. 124.
- Lorenz, John, Milwaukee, Wis. Vehicle-tire. No. 1,301,467; Apr. 22; v. 261; p. 712.
- Lorenz, John M., assignor to Chicago Furnace Supply Co., Chicago, Ill. Hot-air sectional conduit. No. 1,324,602; Dec. 9; v. 269; p. 306.
- Lorenz, Samuel, executor. (See Lorenz, Elmer J.)
- Lorenz, William A., et al. (See Lorenz and Law, assignors.)
- Lorenz, William A., et al. (See Peiler, Karl E., assignor.)
- Lorenz, William A., Hartford, Conn. Disk-grinding machine. No. 1,291,572; Jan. 14; v. 258; p. 394.
- Lorenz, William A., Hartford, Conn. Cutting metals. No. 1,292,494; Jan. 28; v. 258; p. 670.
- Lorenz, William A., Hartford, Conn. Ejecting mechanism for vending-machines. No. 1,292,619; Jan. 28; v. 258; p. 702.
- Lorenz, William A., Hartford, Conn. Coin-controlled mechanism for vending-machines. No. 1,293,822; Feb. 11; v. 259; p. 228.
- Lorenz, William A., Hartford, Conn. Jar or tumbler closure. No. 1,322,913; Nov. 25; v. 268; p. 646.
- Lorenz, William A., Hartford, Conn. Hermetic closure for receptacles. No. 1,322,914; Nov. 25; v. 268; p. 647.
- Lorenz, William A., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-pressing machine. No. 1,291,952; Jan. 21; v. 258; p. 519.
- Lorenz, William A., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Apparatus for feeding molten glass. No. 1,300,180; Apr. 8; v. 261; p. 380.
- Lorenz, William A., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Apparatus for feeding molten glass. No. 1,300,181; Apr. 8; v. 261; p. 381.
- Lorenz, William A., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Shear mechanism. No. 1,326,460; Dec. 30; v. 269; p. 768.
- Lorenz, William A., and S. H. Rood, Hartford, Conn. Hermetic closure for receptacles. No. 1,299,974; Apr. 8; v. 261; p. 336.
- Lorimer, Felix, Boston, Mass. Mud-guard for motor-vehicles. No. 1,303,567; May 13; v. 262; p. 231.
- Lorimer, George W., administrator. (See Lorimer, George W. and J. H.)
- Lorimer, George W., and J. H. Lorimer, deceased; W. Lorimer, administrator, Piqua, Ohio, assignor, by mesne assignments, to Western Electric Company, Incorporated. Automatic telephone-exchange. No. 1,294,285; Feb. 11; v. 259; p. 336.
- Lorimer, James H. (See Lorimer, George W. and J. H.)
- Loring, Ernest J., Washington, D. C. Luminous level. No. 1,318,162; Oct. 7; v. 267; p. 96.
- Lorquet, Joseph L. R., St. Malo, Quebec, Canada. Terminal for storage batteries. No. 1,323,077; Nov. 25; v. 268; p. 678.
- Los Angeles Trailer Company. (See Norton, Guy A., assignor.)
- Losee, Edward T., assignor of forty-nine one-hundredths to E. W. Munson, New Haven, Conn. Towel-rack. No. 1,291,953; Jan. 21; v. 258; p. 520.
- Losee, Gilbert E., Philadelphia, Pa. Window-shade structure and ventilator therefor. No. 1,303,081; May 6; v. 262; p. 114.
- Losee, Joseph S., Hebron, and F. A. Howard, Chicago, Ill.; said Howard assignor to said Losee. Mixture-heater. No. 1,315,730; Sept. 9; v. 266; p. 238.
- Losey, North H., Indianapolis, Ind. Cinematography apparatus. No. 1,291,954; Jan. 21; v. 258; p. 520.
- Losin, Wladyslaw, Niagara Falls, N. Y. Winged projectile. No. 1,294,924; Feb. 18; v. 259; p. 521.
- Lothrop, Marcus T., assignor to The Timken Roller Bearing Company, Canton, Ohio. Making conical cups for roller-bearings. No. 1,326,205; Dec. 30; v. 269; p. 720.
- Lotsch, John L., Brooklyn, N. Y. Storage battery. No. 1,301,780; Apr. 22; v. 261; p. 773.
- Lott, Charles I., Pearson, Ga. Roller-bearing for railway-cars, &c. No. 1,326,754; Dec. 30; v. 269; p. 823.
- Lotysiewicz, George, Brookings, Saskatchewan, Canada. War balloon. No. 1,299,744; Apr. 1; v. 261; p. 285.
- Louden, Edgar W., Philadelphia, Pa. Automatic balancing means for high-speed rotors. No. 1,314,005; Aug. 26; v. 265; p. 491.
- Louden, Herman P., Sr., Lebanon, Pa. Projectile. No. 1,295,047; Feb. 18; v. 259; p. 548.
- Louden Machinery Company, The. (See Neller, Albert H., assignor.)
- Louden, William, Fairfield, Iowa. Manger for animal-stalls. No. 1,294,366; Feb. 11; v. 259; p. 355.
- Louden, William, Fairfield, Iowa. Water-bowl. No. 1,296,586; Mar. 4; v. 260; p. 172.
- Louden, William, Fairfield, Iowa. Manger for animal pens and stalls. No. 1,297,974; Mar. 18; v. 260; p. 541.
- Louden, William, Fairfield, Iowa. Drinking-bowl for animals. No. 1,302,939; May 6; v. 262; p. 87.
- Loudenbeck, Harry C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Making piston-packing. No. 1,314,142; Aug. 26; v. 265; p. 516.
- Loudenbeck, Harry C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-cylinder piston-packing. No. 1,314,143; Aug. 26; v. 265; p. 517.
- Louder, Harry C., Washington, D. C. Rod-bending apparatus. No. 1,319,881; Oct. 28; v. 267; p. 533.
- Loudon, Dorr F., New York, N. Y. Humidifier. No. 1,311,701; July 29; v. 264; p. 811.
- Loudon, Dorr F., New York, N. Y. Drain-table. No. 1,323,078; Nov. 25; v. 268; p. 678.
- Loudon, Warren P., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery construction. No. 1,316,490; Sept. 16; v. 266; p. 394.
- Loudon, Warren P., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery construction. No. 1,323,479; Dec. 2; v. 269; p. 48.



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- Loudon, Warren P., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery construction. No. 1,324,426; Dec. 9; v. 269; p. 272.
- Loudon, William A., Chicago, Ill. Internal-combustion engine. No. 1,316,730; Sept. 23; v. 266; p. 489.
- Loufek, Frank, Cedar Rapids, Iowa. Machine for setting wheels. No. 1,296,198; Mar. 4; v. 260; p. 88.
- Lough, Hector V., North Plainfield, N. J., assignor to Goldberg Display Mixtures, New York, N. Y. Display-rack. No. 1,294,130; Feb. 11; v. 259; p. 301.
- Lough, Hector V., Hartford, Conn., assignor to The Hartford Rubber Works Company. Sectional mold and locking means therefor. No. 1,320,015; Oct. 28; v. 267; p. 558.
- Loughhead, Oscar L., assignor of one-half to R. B. Lang, Racine, Wis. Oil-feed indicator. No. 1,290,260; Jan. 7; v. 258; p. 60.
- Lougheed, Victor, Chicago, Ill., assignor to Warner Electric Company, Muncie, Ind. Steering device for motor-vehicles. No. 1,303,928; May 20; v. 262; p. 336.
- Lougheed, Victor, assignor to Enterprise Foundry Company, San Francisco, Calif. Making molds for casting. No. 1,320,770; Nov. 4; v. 268; p. 77.
- Loughran, John F., Chehalis, Wash. Tread for automobile-tires. No. 1,292,826; Jan. 28; v. 258; p. 750.
- Loughbridge, Matthew H., Bogota, N. J. Tubular tag. No. 1,298,981; Apr. 1; v. 261; p. 85.
- Loughridge, Matthew H., Bogota, N. J. Cab-signal and train-control system. No. 1,299,595; Apr. 8; v. 261; p. 251.
- Louis, Rube B., Houston, Tex. Patch for cotton bales. No. 1,290,605; Jan. 7; v. 258; p. 143.
- Louisiana Nut and Produce Company. (See Williams, Dick B., assignor.)
- Louisville Cement Company. (See Baylor, Harry D., assignor.)
- Loungway, Arthur M. (See Lapham and Loungway.)
- Lounsbury, Harvey J., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Car construction. No. 1,303,341; May 13; v. 262; p. 191.
- Louthan, Arthur C., Arcola, Ill. Railway-gate. No. 1,297,197; Mar. 11; v. 260; p. 346.
- Louthan, Wallace B., Marshalltown, Iowa. Motor-vehicle. No. 1,317,981; Oct. 7; v. 267; p. 61.
- Lovan, Alphonso B., et al. (See Norman, Frank, assignor.)
- Lovas, John, Erie, Pa. Gunner's shield. No. 1,290,606; Jan. 7; v. 258; p. 143.
- Love, Aubrey. (See Kelly, Hugh W., assignor.)
- Love, Sandy H., assignor of one-fourth to A. L. Nunn and one-fourth to A. P. Hampton, Colt, Ark. Gun. No. 1,301,143; Apr. 22; v. 261; p. 648.
- Lovejoy, Emma L., Wakefield, Mass. Hose-supporter. No. 1,298,525; Mar. 25; v. 260; p. 685.
- Lovejoy, Fred P., Springfield, Vt. Milling-tool. No. 1,311,452; July 29; v. 264; p. 765.
- Lovejoy, Fred P., Springfield, Vt. Adjustable boring-tool. No. 1,316,731; Sept. 23; v. 266; p. 489.
- Lovejoy, Ralph M., Meredith, N. H. Hand-truck. No. 1,307,687; June 24; v. 263; p. 553.
- Lovejoy, Ralph M., Meredith, N. H. Shock-absorber. No. 1,324,913; Dec. 16; v. 269; p. 425.
- Lovejoy, Roy F., Lowell, Mass., and G. D. Alexis, New Orleans, La. Anvil-knife. No. 1,298,526; Mar. 25; v. 260; p. 686.
- Lovekin, Luther D., Philadelphia, Pa. Pump-governor. No. 1,294,497; Feb. 18; v. 259; p. 422.
- Lovekin, Luther D., assignor to Schutte & Koerting Company, Philadelphia, Pa. Air-register for oil-burners. No. 1,290,607; Jan. 7; v. 258; p. 143.
- Loveless, Benjamin F., C. E. Lanning, and W. L. Judefind, Baltimore, Md. Electrolytic production of permanganates. No. 1,291,680; Jan. 14; v. 258; p. 420.
- Loveless, Benjamin F., C. E. Lanning, and W. L. Judefind, Baltimore, Md. Electrolytic production of permanganates. No. 1,291,681; Jan. 14; v. 258; p. 421.
- Loveless, Benjamin F., C. E. Lanning, and W. L. Judefind, Baltimore, Md. Electrolytic production of permanganates. No. 1,291,682; Jan. 14; v. 258; p. 421.
- Loveless, James A., Newport, R. I. Metal stool. No. 1,319,400; Oct. 21; v. 267; p. 418.
- Loveless, Fred H., Chicago, Ill., assignor of one-half to O. F. Strodel, Fort Wayne, Ind. Bulletin and sign board. No. 1,306,491; June 10; v. 263; p. 269.
- Loveless, Fred H., Chicago, Ill., assignor of two-thirds to J. Rowan and W. M. Hasty, Marion, Ind. Combined sign and bulletin board. No. 1,308,502; July 1; v. 264; p. 90.
- Loveless, John M., assignor of one-half to C. C. Wilton, Glen, Ind. Demountable rim. No. 1,318,295; Oct. 7; v. 267; p. 122.
- Lovell, Charles W., Brooklyn, N. Y. Paper-cutting machine. No. 1,308,852; July 8; v. 264; p. 183.
- Lovell Manufacturing Company. (See Lewis, George W., assignor.) (Reissue.)
- Lovell-McConnell Manufacturing Company. (See Hutchison, Miller R., assignor.)
- Lovell-McConnell Manufacturing Company. (See McMurtry, Alden L., assignor.)
- Lovell-McConnell Manufacturing Company. (See Proctor, George A., assignor.)
- Lovely, John A., Middletown, N. Y. Coping-joint seal. No. 1,295,538; Feb. 25; v. 259; p. 685.
- Loveman, William R., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Purifying zirconium ores. No. 1,297,371; Mar. 18; v. 260; p. 413.
- Loventhal, Allison S., Birmingham, and E. C. Nunneley, Ashland, Ala. Mineral-separating apparatus. No. 1,297,372; Mar. 18; v. 260; p. 413.
- Loveridge, F. R., et al. (See Rensz, Maximilian J., assignor.)
- Lovering, Orville J. (See Henry, Charles S. B., assignor.)
- Lovitt, George H., Pawtucket, R. I. Tube-holder for loom-shuttles. No. 1,321,651; Nov. 11; v. 268; p. 307.
- Low, Arthur B., assignor to A. M. Darragh, Denver, Colo. Vulcanizer. No. 1,315,731; Sept. 9; v. 266; p. 238.
- Low, David, and A. R. Thompson, San Jose, Calif.; said Thompson assignor to said Low. Feeder especially adapted for asparagus-handling machines. No. 1,299,198; Apr. 1; v. 261; p. 135.
- Low, Thomas A. (See Goodwin, William, assignor.)
- Lowdell, George A., San Diego, Calif. Pen-nib. No. 1,307,203; June 17; v. 263; p. 431.
- Lowden, Marshall J., and A. A. Fehrenbacher, Lowden, Wash. Riddle-box grain-guide. No. 1,317,802; Oct. 7; v. 267; p. 27.
- Lowe, Charles W., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Connector. No. 1,309,253; July 8; v. 264; p. 258.
- Lowe, Clyde E. (See Clark and Lowe.)
- Lowe, Elmo C. (See Crosby and Lowe.)
- Lowe, Ernest A., Plainfield, N. J., assignor to Automatic Sprinkler Company of America, New York, N. Y. Automatic fire-alarm apparatus. No. 1,303,082; May 6; v. 262; p. 114.
- Lowe, George J. (See Dormont, Frank C., assignor.)
- Lowe, James, Auckland, New Zealand. Automatic means for controlling the gas-supply to gas-heated water-heaters. No. 1,303,929; May 20; v. 262; p. 336.
- Lowe, James G., Shelby, Ala. Automobile-tire. No. 1,325,364; Dec. 16; v. 269; p. 509.
- Lowe, John. (See Lyth, John J., assignor.)
- Lowe, John, and J. J. Lyth, Valleyfield, Quebec, Canada. Tension-equalizer. No. 1,319,961; Oct. 28; v. 267; p. 548.
- Lowe, William A. J., and J. H. Long, Kingsport, assignors to Universal Fruit Stand Company, Johnson City, Tenn. Display-stand. No. 1,326,755; Dec. 30; v. 269; p. 823.
- Lowell, Erwin D., Cleveland Heights, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Handle for agricultural tools. No. 1,290,261; Jan. 7; v. 258; p. 60.
- Lowell-McConnell Manufacturing Company. (See McMurtry, Alden L., assignor.)
- Lowell, William H., and M. T. Wintsch, Lancaster, Pa. Train-stop. No. 1,301,468; Apr. 22; v. 261; p. 712.
- Lowenstein, Arthur, Chicago, Ill. Manufacture of anhydrous ammonia. No. 1,322,251; Nov. 18; v. 268; p. 471.
- Lowenstein, Fritz, Brooklyn, N. Y. Spark-gap device. No. 1,305,816; June 3; v. 263; p. 111.
- Lowenstein, Fritz, New York, N. Y. Method of and apparatus for generating electrical oscillations. No. 1,322,315; Nov. 18; v. 268; p. 483.
- Lowenstein, Fritz, and J. Broich, Brooklyn, N. Y. Circuit maker and breaker. No. 1,291,039; Jan. 14; v. 258; p. 270.
- Lowenstein, Louis, Detroit, Mich. Depth angle-gage. No. 1,295,180; Feb. 25; v. 259; p. 602.
- Lowenstein, Louis, Detroit, Mich. Adjustable square. No. 1,300,427; Apr. 15; v. 261; p. 460.
- Lowenstein, Louis, Detroit, Mich. Wiggler. No. 1,300,428; Apr. 15; v. 261; p. 460.
- Lowenstein, Louis, Detroit, Mich. Ratchet extension for micrometers. No. 1,308,988; July 8; v. 264; p. 208.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive-stoker. No. 1,296,541; Mar. 4; v. 260; p. 162.
- Lower, Nathan M., assignor to Locomotive Stoker Company, Schenectady, N. Y. Engine-governor. No. 1,305,387; June 3; v. 263; p. 30.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company, Schenectady, N. Y. Locomotive stoker mechanism. No. 1,312,858; Aug. 12; v. 265; p. 222.
- Loweree, Edgar R., and G. F. Jackson, assignors to Southern Can Company, Baltimore, Md. Machine for double-seaming cans. No. 1,320,700; Nov. 4; v. 268; p. 63.
- Loves Manufacturing Co. (See Sherman, Charles W., assignor.)
- Lowman, Adonis G. E., Winnipeg, Manitoba, Canada. Card-scorer. No. 1,299,489; Apr. 8; v. 261; p. 227.
- Lowman, Adonis G. E., Winnipeg, Manitoba, Canada. Game. No. 1,320,628; Nov. 4; v. 268; p. 50.
- Lowman, Edith H., Los Angeles, Cal. Brassière. No. 1,290,608; Jan. 7; v. 258; p. 143.
- Lowman, Roy L., Washington, D. C., assignor to H. C. Dodge, Boston, Mass. Tracer for projectiles. No. 1,310,708; July 22; v. 264; p. 593.
- Lowrance, William T., Monte Vista, Colo. Fence-post. No. 1,312,448; Aug. 5; v. 265; p. 112.



- Lowrey, George A., Baltimore, Md. Game-board. No. 1,321,464; Nov. 11; v. 268; p. 273.
- Lowry, Albert M., Fairfield, Me. Locking means for draft-sills of railway-cars. No. 1,320,073; Oct. 28; v. 267; p. 569.
- Lowry, Frederick S., deceased; M. L. Hart, (formerly M. Lowry), administratrix, Roseville, Ohio. Mold for ceramic products. No. 1,314,821; Sept. 2; v. 266; p. 65.
- Lowry, George, assignor of one-half to J. F. Tanner, Roseville, Ohio. Pull-down for potteries. No. 1,326,756; Dec. 30; v. 269; p. 823.
- Lowry, George A., New York, N. Y., assignor, by mesne assignments to A. B. Ridington. Shredding and spinning machine. No. 1,291,955; Jan. 21; v. 258; p. 520.
- Lowry, George A., New York, N. Y., assignor, by mesne assignments, to A. B. Ridington. Shredding and spinning machine. No. 1,309,646; July 15; v. 264; p. 368.
- Lowry, George A., New York, N. Y., assignor, by mesne assignments, to Palmetto Products Company, Inc., Jacksonville, Fla. Shredding and spinning machine. No. 1,316,249; Sept. 16; v. 266; p. 349.
- Lowry, Mildred, administratrix. (See Hart, Mildred L.)
- Lowther, Lee E., Cardington, Ohio. Baling-press. No. 1,319,596; Oct. 21; v. 267; p. 456.
- Lowther, William P., Spokane, Wash. Piston. No. 1,298,234; Mar. 25; v. 260; p. 622.
- Lowy, Arthur. (See Ludlum and Lowy.)
- Lowy, Arthur, Newark, N. J., assignor to New York Engineering Company. Steam-boiler. No. 1,317,930; Oct. 7; v. 267; p. 51.
- Lowy, Emil M., New York, N. Y., assignor to Lowy Life Saving Suit Corporation. Life-saving garment. No. 1,291,648; Jan. 14; v. 258; p. 413.
- Lowy, Emil M., New York, N. Y., assignor to Lowy Life Saving Suit Corporation. Life-saving garment. No. 1,291,649; Jan. 14; v. 258; p. 413.
- Lowy, Emil M., New York, N. Y., assignor to Lowy Life Saving Suit Corporation. Life-saving garment. No. 1,291,650; Jan. 14; v. 258; p. 413.
- Lowy Life Saving Suit Corporation. (See Lowy, Emil M., assignor.)
- Lowy, Milton, *et al.* (See De Cesare, Matteo, assignor.)
- Lox, Oscar, Chicago, Ill. Smoke-consuming furnace. No. 1,302,061; Apr. 29; v. 261; p. 857.
- Lox Seal Corporation. (See Behrman, Marcus B., assignor.)
- Loyd, John F., Los Angeles, Calif. Game apparatus. No. 1,314,822; Sept. 2; v. 266; p. 65.
- Luban, Alexander, Newark, N. J. Heating or steaming apparatus. No. 1,301,469; Apr. 22; v. 261; p. 712.
- Lubarsky, Harry C., Philadelphia, Pa., assignor to A. Holland and Son, Newark, N. J. Method and means for dyeing fur-skins. (Reissue.) No. 14,729; Sept. 23; v. 266; p. 567.
- Lubberger, Fritz. (See Grabe, See, Lubberger, Frubing, and Rutter.)
- Lubberger, Fritz, assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange trunking system. No. 1,292,827; Jan. 28; v. 258; p. 750.
- Lubberger, Fritz, assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange system. No. 1,295,181; Feb. 25; v. 259; p. 602.
- Lubberger, Fritz, assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange trunking system. No. 1,304,076; May 20; v. 262; p. 363.
- Lubberger, Fritz, assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone-exchange system. No. 1,306,824; June 17; v. 263; p. 362.
- Lubetich, Peter, Avalon, Cal. Decorator's pin. No. 1,295,539; Feb. 25; v. 259; p. 685.
- Lubin, Jess L., Sacramento, Calif. Mail-order-house order-blank. No. 1,318,163; Oct. 7; v. 267; p. 96.
- Lubken, John C. H., Westmont borough, Pa. Mining-car. No. 1,311,659; July 29; v. 264; p. 803.
- Luburg, Charles E. (See Houchin and Luburg.)
- Lubs, Herbert A. (See Ambler, Lubs, and Gibbs.)
- Lucas, Abraham N., Milwaukee, Wis. Marking-light for locomotives. No. 1,310,027; July 15; v. 264; p. 438.
- Lucas, August L., New Haven, Conn. Baby-carriage. No. 1,303,930; May 20; v. 262; p. 336.
- Lucas, Clarence W., Decatur, Ill., assignor to The Phoenix Glass Company, Pittsburgh, Pa. Holder for lighting-fixtures. No. 1,316,250; Sept. 16; v. 266; p. 349.
- Lucas, George T., San Francisco, Calif. Electric soldering-iron. No. 1,322,126; Nov. 18; v. 268; p. 447.
- Lucas, John, Stockton, Calif. Grain and seed separator and cleaner. No. 1,310,759; July 22; v. 264; p. 603.
- Lucas, Louis, Jamestown, N. Y. Candlestick. No. 1,316,624; Sept. 23; v. 266; p. 468.
- Lucas, William B., Oak Park, assignor of one-half to E. L. Markey, Evanston, Ill. Rectifier. No. 1,301,581; Apr. 22; v. 261; p. 732.
- Lucey Manufacturing Corporation. (See Vreeland, Walter G., assignor.)
- Luchs, Friedrich M., Wilkinsburg, assignor to American Atmos Corporation, Wilkinsburg Station, Pittsburgh, Pa. Breathing apparatus. No. 1,308,599; July 1; v. 264; p. 108.
- Luciani, Jacques, assignor to W. J. Solms, Paris, France. Multiple-barrel machine-gun. No. 1,319,882; Oct. 28; v. 267; p. 533.
- Lucius, Christian V., Wooster, Ohio. High-pressure container. No. 1,291,956; Jan. 21; v. 258; p. 521.
- Lucius, Christian V., Massillon, Ohio. Tank-vehicle. No. 1,311,981; Aug. 5; v. 265; p. 24.
- Lucius, Christian V., Massillon, Ohio. Metallic casket. No. 1,326,873; Dec. 30; v. 269; p. 846.
- Luck, Charles A., Toledo, Ohio, assignor to The Conklin Pen Manufacturing Company. Pen-point holder. No. 1,315,373; Sept. 9; v. 266; p. 174.
- Luck, Charles A., assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio. Fountain-pen cap. No. 1,326,206; Dec. 30; v. 269; p. 720.
- Luck, John J., San Antonio, Tex. Tire construction. No. 1,323,079; Nov. 25; v. 268; p. 678.
- Lucke, Charles E., assignor to Gas and Oil Combustion Company, New York, N. Y. Carbureter. No. 1,291,040; Jan. 14; v. 258; p. 271.
- Lucke, Charles E., assignor to Gas and Oil Combustion Company, New York, N. Y. Apparatus for burning explosive gaseous mixtures. No. 1,308,364; July 1; v. 264; p. 65.
- Lucke, Charles E., New York, N. Y. Apparatus for burning explosive gaseous mixtures. No. 1,313,196; Aug. 12; v. 265; p. 288.
- Lucke, Charles E., assignor to Gas and Oil Combustion Company, New York, N. Y. Burning of explosive gaseous mixtures. No. 1,302,819; May 6; v. 262; p. 64.
- Luckey, Ai. (See Pellissero, Nicholas C., assignor.)
- Luckey, Forrest D., Logan, Utah. Padlock. No. 1,300,983; Apr. 15; v. 261; p. 578.
- Luckey, George P., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Soldering-flux. No. 1,293,823; Feb. 11; v. 259; p. 229.
- Lucoff, Wasel, Bruss Mine, Ontario, Canada. Laundry drying appliance. No. 1,310,424; July 22; v. 264; p. 542.
- Lucoff, Wasel, Bruce Mines, Ontario, Canada. Potatoplant. No. 1,322,915; Nov. 25; v. 268; p. 647.
- Lucus, Lynndors S., and S. J. Sanford, Philadelphia, Pa. Dirigible light for automobiles. No. 1,290,609; Jan. 7; v. 258; p. 143.
- Ludeke, Emil, Rochester, N. Y. Fastening device. No. 1,300,429; Apr. 15; v. 261; p. 460.
- Ludeman, Edwin H. (See Bogert, John L., assignor.)
- Ludeman, Edwin H., New York, N. Y. Flexible coupling. No. 1,322,127; Nov. 18; v. 268; p. 447.
- Ludeman, Edwin H., New York, N. Y. Flexible coupling. No. 1,322,128; Nov. 18; v. 268; p. 447.
- Ludke, Raymond O. W., Coplay, Pa. Fly-swatter. No. 1,310,124; July 15; v. 264; p. 456.
- Ludlam, James E., Bridgeport, Conn. Heel-retainer. No. 1,324,400; Dec. 9; v. 269; p. 267.
- Ludlow, Israel, New York, N. Y. Shell-packing. No. 1,302,392; Apr. 29; v. 261; p. 919.
- Ludlow, Israel, New York, N. Y. Submersible gun-mount. No. 1,309,483; July 8; v. 264; p. 300.
- Ludlow Manufacturing Associates. (See Burbank, Louis S., assignor.)
- Ludlow Typograph Company, The. (See Hedly, Arthur H., assignor.)
- Ludlow Typograph Company, The. (See Horix, Carl, assignor.)
- Ludlow, William E., Cleveland, Ohio. Device for suspending and securing telephone-directories. No. 1,299,745; Apr. 8; v. 261; p. 285.
- Ludlum, Albert C., New York, N. Y., and A. Lowy, Newark, N. J., assignors to New York Engineering Company. Gold-dredge. No. 1,315,228; Sept. 9; v. 266; p. 148.
- Ludwick, Frederick J., Philadelphia, Pa. Stair tread, pad, or lining. No. 1,320,016; Oct. 28; v. 267; p. 558.
- Ludwig, Louis H., Waukegan, Ill. Weed-puller. No. 1,293,824; Feb. 11; v. 259; p. 229.
- Ludwig, Willard M., assignor to Kier Letter Company, Chicago, Ill. Printing-press. No. 1,301,470; Apr. 22; v. 261; p. 712.
- Ludwigsbergs Verkstads Aktiebolag. (See Ax, Georg B., assignor.)
- Ludwigsbergs Verkstads Aktiebolag. (See Larsson, Sven, assignor.)
- Ludwigsbergs Verkstads Aktiebolag. (See Svensson, Johan A., assignor.)
- Luebbers, Reemt. (See Clawson, Charles F., assignor.)
- Luebert, William M., San Francisco, Calif. Hanger. No. 1,313,547; Aug. 19; v. 265; p. 371.
- Luebcke, Paul E., assignor of one-half to H. K. Ryan, Chicago, Ill. Inner tube for vehicle-tires. No. 1,323,600; Dec. 2; v. 269; p. 70.
- Luedke, Arthur C., Milwaukee, Wis. Furnace-flue-closing device. No. 1,314,475; Aug. 26; v. 265; p. 580.
- Luedke, Gustav P., assignor, by mesne assignments, to W. H. Diller, Springfield, Ill. Threshing-machine. No. 1,290,610; Jan. 7; v. 258; p. 143.
- Luedke, Herman A., *et al.* (See Dorn, Henry C., assignor.)
- Luellen, Lawrence W., Boonton, N. J., assignor to Individual Drinking Cup Company, New York, N. Y. Receptacle. No. 1,308,793; July 8; v. 264; p. 172.
- Luense, Frederick H., New York, N. Y. Aeroplane. No. 1,320,772; Nov. 4; v. 268; p. 77.
- Luers, John M., Cincinnati, Ohio. Center-drilling jig. No. 1,292,620; Jan. 28; v. 258; p. 702.



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- Lufkin, George A. (See Saylor, Franklin G., assignor.)  
 Lugeanbeal, E. E. (See Lillibridge, Willard S., assignor.)  
 Lugt, Gerard J., Amsterdam, Netherlands. Crushing and cracking machine. No. 1,321,652; Nov. 11; v. 268; p. 307.  
 Luhrman, Albert H., Cincinnati, Ohio. Storage-battery connection. No. 1,312,038; Aug. 5; v. 265; p. 35.  
 Luikart, Roy E., Sioux Falls, S. D. Rotary engine. No. 1,299,588; Apr. 8; v. 261; p. 249.  
 Lukaszewski, Stanislaw J., Detroit, Mich. Engine. No. 1,298,744; Apr. 1; v. 261; p. 29.  
 Luke, Claude T., and J. R. Lilly, Defiance, Ohio. Tire-carrier. No. 1,325,993; Dec. 23; v. 269; p. 643.  
 Luke, Fred A., Kalspell, Mont. Steam-engine. No. 1,320,629; Nov. 4; v. 268; p. 51.  
 Lukens, Clarence D. (See Stoltz and Lukens.)  
 Lukens Steel Company. (See Ducas, Charles, assignor.)  
 Lukens Steel Company. (See Haldeman, Paul C., assignor.)  
 Lukens, William H., Philadelphia, Pa., assignor to Warren Webster & Company, Camden, N. J. Device for registering, recording, and indicating the flow of liquids. No. 1,317,513; Sept. 30; v. 266; p. 671.  
 Lukianoff, Nicholas N., New York, N. Y. Pocket scale-holder. No. 1,325,446; Dec. 16; v. 269; p. 524.  
 Lum, Walter O., Wilkingsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical protective device. No. 1,298,745; Apr. 1; v. 261; p. 29.  
 Lum, Walter O., Wilkingsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrically-operated switch. No. 1,298,746; Apr. 1; v. 261; p. 29.  
 Lum, Walter O., Wilkingsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,303,342; May 13; v. 262; p. 191.  
 Lum, Walter O., Wilkingsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,318,779; Oct. 14; v. 267; p. 274.  
 Lum, Walter O., Wilkingsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,320,074; Oct. 28; v. 267; p. 569.  
 Lumaghi, J. D., et al., trustees. (See Hoover, Charles O., assignor.)  
 Lumby, Avery L., assignor to Cadillac Motor Car Company, Detroit, Mich. Safety device. No. 1,324,834; Dec. 16; v. 269; p. 411.  
 Luminous Unit Company. (See Guth, Edwin F., assignor.)  
 Lumley, Harold J., Buffalo, N. Y. Hot-water heater. No. 1,312,408; Aug. 5; v. 265; p. 104.  
 Lumley, Wilfred. (See Rolph and Lumley.)  
 Lumley, Wilfrid, Cleveland, Ohio, assignor to General Electric Company. Portable lamp. No. 1,297,880; Mar. 18; v. 260; p. 521.  
 Lumm, George W., Pontiac, Mich. Soil-tiller. No. 1,316,625; Sept. 23; v. 266; p. 468.  
 Lumm, Silvanus F. (See Greenstreet and Lumm.)  
 Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 1,305,913; June 3; v. 263; p. 129.  
 Lummus Cotton Gin Company. (See Grimes, Thaddeus S., assignor.)  
 Lummus Cotton Gin Company. (See Talton, Vander H., assignor.)  
 Lumsden, Edward R., Indiana, Pa. Closet-flange. No. 1,291,041; Jan. 14; v. 258; p. 271.  
 Lumsden, Edward R., Indiana, Pa. Radiator-lifter. No. 1,317,300; Sept. 30; v. 266; p. 631.  
 Luna, Eulogio, Clifton, Ariz. Culinary article. No. 1,303,083; May 6; v. 262; p. 115.  
 Luna, Francisco, Santiago, Cuba. Turn-table. No. 1,291,957; Jan. 21; v. 258; p. 521.  
 Lund, Andrew M., Auburn, Me. Sporting or bathing shoe. No. 1,291,958; Jan. 21; v. 258; p. 521.  
 Lund, Charles W., assignor to E. W. Carpenter Manufacturing Company, Bridgeport, Conn. Safety-razor. No. 1,308,747; July 1; v. 264; p. 136.  
 Lund, Clemen. (See Muhleisen and Lund, assignors.)  
 Lund, Emil, Whittla, Alberta, Canada. Plastic tie. No. 1,294,131; Feb. 11; v. 259; p. 301.  
 Lund, Hans J., Skien, Norway. Boiler-cleaning apparatus. No. 1,302,940; May 6; v. 262; p. 87.  
 Lund, Joel, San Francisco, Calif. Metallurgical process. No. 1,320,483; Nov. 4; v. 268; p. 23.  
 Lund, John, Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Removable firing-pin for ordnance. No. 1,290,839; Jan. 7; v. 258; p. 198.  
 Lund, John, Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Elevating and sighting mechanism for guns. No. 1,298,982; Apr. 1; v. 261; p. 85.  
 Lund, John, Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Gun-carriage. No. 1,298,983; Apr. 1; v. 261; p. 85.  
 Lund, John, Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Gun-carriage. No. 1,298,984; Apr. 1; v. 261; p. 85.  
 Lund, Martin J. (See Gulbrandsen, Michael A., assignor.)  
 Lund, Ole H., assignor to Christiania Traadstiftfabrik, Christiania, Norway. Machine for manufacturing nails from unfinished horseshoe-nails. No. 1,303,694; May 13; v. 262; p. 255.  
 Lund, Robert L., St. Louis, Mo. Drier. No. 1,318,780; Oct. 14; v. 267; p. 274.  
 Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-breast-trimming machine. No. 1,293,134; Feb. 4; v. 259; p. 37.  
 Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United-Xpedite Finishing Company, Berwick, Me. Burnishing-machine. No. 1,303,931; May 20; v. 262; p. 337.  
 Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,324,914; Dec. 16; v. 269; p. 426.  
 Lundahl, Fred A., Moline, Ill. Fender-bending machine. No. 1,296,199; Mar. 4; v. 260; p. 88.  
 Lundberg, Adolf, Stockholm, Sweden. Apparatus for delivering toilet-paper piece by piece. No. 1,312,449; Aug. 5; v. 265; p. 112.  
 Lundberg, Nils G. O. (See Ohlson and Lundberg.)  
 Lundberg, Olof and J. O. Harris, Kelliher, Minn. Detachable pocket. No. 1,310,125; July 15; v. 264; p. 456.  
 Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Finder-starting system. No. 1,291,959; Jan. 21; v. 258; p. 521.  
 Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Number-indicating system. No. 1,291,960; Jan. 21; v. 258; p. 521.  
 Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Semi-automatic telephone system. No. 1,292,828; Jan. 28; v. 258; p. 751.  
 Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric signaling system. No. 1,296,097; Mar. 4; v. 260; p. 64.  
 Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. No. 1,304,335; May 20; v. 262; p. 412.  
 Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,307,057; June 17; v. 263; p. 406.  
 Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,312,126; Aug. 5; v. 265; p. 52.  
 Lundell, Alben E., New York, N. Y., and F. A. Stearn, Paterson, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,294,498; Feb. 18; v. 259; p. 422.  
 Lundell, Alben E., and E. H. Clark, assignors to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,312,791; Aug. 12; v. 265; p. 208.  
 Lundell, Alvin O., South St. Joseph, Mo. Machine and handling and inspecting meat. No. 1,316,626; Sept. 23; v. 266; p. 469.  
 Lundgren, Fred, Los Angeles, Calif. Lubricating and cooling device for internal-combustion engines. No. 1,312,190; Aug. 5; v. 265; p. 64.  
 Lundgren, Herman E., Chicago, Ill. Toy. No. 1,308,183; July 1; v. 264; p. 32.  
 Lundin, Ragnar O. W., New Britain, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. No. 1,291,651; Jan. 14; v. 258; p. 414.  
 Lundius, Eric R., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. No. 1,293,825; Feb. 11; v. 259; p. 229.  
 Lundius, Eric R., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,295,909; Mar. 4; v. 260; p. 20.  
 Lundius, Eric R., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,296,677; Mar. 11; v. 260; p. 229.  
 Lundquist, Arvid G., Crystal Lake, Ill. Clock. No. 1,320,400; Nov. 4; v. 268; p. 8.  
 Lundquist, Frank A., assignor to Western Electric Company, Incorporated, New York, N. Y. Cross-bar line-switch. No. 1,303,084; May 6; v. 262; p. 115.  
 Lundquist, Frank A., New York, N. Y., assignor to C. L. Redfield, trustee, Chicago, Ill. Automatic telephone-exchange. No. 1,307,589; June 24; v. 263; p. 535.  
 Lundquist, Frank A., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,307,688; June 24; v. 263; p. 653.  
 Lundy, Chisholm R., Winnipeg, Manitoba, Canada. Vaporizing attachment. No. 1,320,630; Nov. 4; v. 268; p. 51.  
 Lundy, Robert R., Detroit, Mich. Non-warping tray. No. 1,325,256; Dec. 16; v. 269; p. 490.  
 Lung, Benjamin F., Benzonia, Mich. Can-opener. No. 1,319,597; Oct. 21; v. 267; p. 456.  
 Lungstras Dyeing & Cleaning Company. (See Lungstras, Paul, assignor.)  
 Lungstras, Paul, assignor to Lungstras Dyeing & Cleaning Company, St. Louis, Mo. Pressing garments. No. 1,293,826; Feb. 11; v. 259; p. 229.  
 Lunken, Edmund H., Cincinnati, Ohio. Window. No. 1,326,676; Dec. 30; v. 269; p. 808.  
 Lunken, Edmund H., Cincinnati, Ohio. Pocket-window. No. 1,326,677; Dec. 30; v. 269; p. 808.  
 Lunz, Guy W. (See Aurand, Frank E., assignor.)  
 Luo, John F., Vancouver, British Columbia, Canada. Portable fence. No. 1,293,827; Feb. 11; v. 259; p. 230.



- Lunser, Alexander J., Long Prairie, Minn. Ladder-foot. No. 1,300,430; Apr. 15; v. 261; p. 460.
- Lunz, George A., Buffalo, N. Y. Non-skidding attachment for vehicle-wheels. No. 1,320,401; Nov. 4; v. 268; p. 8.
- Luongo, Vincent J., Brooklyn, N. Y. Attachment for dental engines. No. 1,325,447; Dec. 16; v. 269; p. 524.
- Lupino, Joseph, Brooklyn, N. Y. Folding cot. No. 1,294,925; Feb. 18; v. 259; p. 521.
- Lupinski, Max, Milwaukee, Wis. Measuring and inspection tank for liquids. No. 1,294,499; Feb. 18; v. 259; p. 422.
- Luptak, George, Ruegg, Mo. Bottle-cleaner. No. 1,303,085; May 6; v. 262; p. 115.
- Luria, Adolfo, Chicago, Ill. Combined field-cot, surgical stretcher, and military knapsack. No. 1,305,388; June 3; v. 263; p. 30.
- Lurz, Karl, Wall, S. D. Flytrap. No. 1,320,017; Oct. 28; v. 267; p. 558.
- Luscher, Louis W., Kansas City, Mo. Indelible ink. No. 1,320,631; Nov. 4; v. 268; p. 51.
- Luschka, August R., and J. Folk, Laporte, Ind., assignors to U. S. Slicing Machine Company. Sharpener for slicing-machines. No. 1,308,433; July 1; v. 264; p. 77.
- Luschka, August R., and J. Folk, assignors to U. S. Slicing Machine Company, Laporte, Ind. Rind-knife for slicing-machines. No. 1,309,417; July 8; v. 264; p. 288.
- Luschka, August R., and J. Folk, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,310,197; July 15; v. 264; p. 469.
- Luschka, August R., and J. Folk, assignors to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,314,598; Sept. 2; v. 266; p. 23.
- Lush, Charles, London, Ontario, Canada. Automatically-operated farm-gate. No. 1,321,832; Nov. 18; v. 268; p. 393.
- Lussier, Henry, Salem, assignor to Draper Corporation, Hopedale, Mass. Hopper-actuating mechanism for looms. No. 1,322,032; Nov. 18; v. 268; p. 429.
- Lussier, Rosario C., Philadelphia, Pa. Closet-seat. No. 1,290,611; Jan. 7; v. 258; p. 144.
- Lusk, Madge M., Brooklyn, N. Y. Lid for water-closets. No. 1,304,336; May 20; v. 262; p. 412.
- Lust, Sidney B., Washington, D. C. Electric-circuit closer for automobiles. No. 1,303,086; May 6; v. 262; p. 115.
- Luster, Emile J., assignor to The Luster-Jordan Company, Incorporated, Norristown, Pa. Automatic profiling-machine. No. 1,306,266; June 10; v. 263; p. 228.
- Luster-Jordan Company, The. (See Luster, Emile J., assignor.)
- Luter, Jacob, Bayonne, N. J. Key-operated lock. No. 1,290,612; Jan. 7; v. 258; p. 144.
- Lutev, Albert E., Detroit, Mich. Plant-receptacle. No. 1,297,484; Mar. 18; v. 260; p. 436.
- Lutgen, Charles H., Ashtabula Harbor, Ohio. Wheel-rim implement. No. 1,318,394; Oct. 14; v. 267; p. 201.
- Luther, Charles H., et al. (See Jacques, Fernando O., Jr., assignor.)
- Luther, Martin, Chicago, Ill. Terminal box. No. 1,295,995; Mar. 4; v. 260; p. 40.
- Luther, William M., Walla Walla, Wash. Cubing-machine. No. 1,297,373; Mar. 18; v. 260; p. 413.
- Luthy, Joseph O., San Antonio, Tex. Battery-terminal. No. 1,300,431; Apr. 15; v. 261; p. 460.
- Luthy, Joseph O., San Antonio, Tex. Separator for secondary batteries. No. 1,305,657; June 3; v. 263; p. 81.
- Luthy, Joseph O., San Antonio, Tex. Separator for secondary batteries. No. 1,305,658; June 3; v. 263; p. 82.
- Luthy, Joseph O., San Antonio, Tex. Toy dish. No. 1,318,678; Oct. 14; v. 267; p. 255.
- Lutiger, Kaspar, Dartford, assignor of one-half to L. Schillig, Crayford, England. Caliper-gage. No. 1,292,340; Jan. 21; v. 258; p. 613.
- Lutolf, Joseph, San Francisco, Cal. Apparatus for washing dishes. No. 1,292,495; Jan. 28; v. 258; p. 670.
- Lutschg, Arnold, Great Bend, Kans. Mail-carrier-discharging gun. No. 1,307,783; June 24; v. 263; p. 570.
- Luttinger, William G., Morenci, Ariz. Automobile-fender. No. 1,315,676; Sept. 9; v. 266; p. 228.
- Luttinger, William G., Jerome, Ariz. Safety-stirrup. No. 1,321,653; Nov. 11; v. 268; p. 308.
- Luttrell, John D., Benton Harbor, Mich. Acetylene-lamp. No. 1,302,393; Apr. 29; v. 261; p. 919.
- Luttringhaus, Walter, Maywood, Ill. Means for attaching handles and the like to utensils. No. 1,317,715; Oct. 7; v. 267; p. 11.
- Lutz, Elmer T., Kansas City, Mo. Gas-burning appliance. No. 1,297,374; Mar. 18; v. 260; p. 413.
- Lutz, George A., Cranford, N. J., assignor to American Circular Loom Company, Pittsburgh, Pa. Electroplating apparatus. No. 1,315,785; Sept. 9; v. 266; p. 247.
- Lutz, George A., Cranford, N. J., assignor to American Circular Loom Company, Pittsburgh, Pa. Coating or plating pipes and other articles. No. 1,323,883; Dec. 2; v. 269; p. 124.
- Lutz, George H., Buffalo, N. Y. Burner for liquid fuel. No. 1,291,573; Jan. 14; v. 258; p. 394.
- Lutz, George H., Buffalo, N. Y. Valve mechanism. No. 1,292,829; Jan. 28; v. 258; p. 751.
- Lutz, George H., Buffalo, N. Y. Automobile-mirror. No. 1,324,456; Dec. 9; v. 269; p. 278.
- Lutz, Herbert, assignor of one-half to G. Morris, Hamilton, Ontario, Canada. Shock-absorber. No. 1,303,343; May 13; v. 262; p. 191.
- Lutz, Theodore E., Galion, Ohio. Closure for burial vaults. No. 1,303,087; May 6; v. 262; p. 115.
- Lutz, Vergil M., St. Paris, Ohio. Facing-strip for concrete fenceposts. No. 1,320,253; Oct. 28; v. 267; p. 602.
- Lutz, William D., Clarence, Mo. Reel. No. 1,293,488; Feb. 4; v. 259; p. 119.
- Lutz, William H., Philadelphia, Pa. Quilting-machine. No. 1,313,308; Aug. 19; v. 265; p. 326.
- Lutzky, Mihaly, Detroit, Mich. Heater. No. 1,305,293; June 3; v. 263; p. 12.
- Luxmore, William, Chicago, Ill. Casting device. No. 1,313,602; Aug. 19; v. 265; p. 381.
- Luxmore, William, Chicago, Ill. Vehicle driving mechanism. No. 1,320,773; Nov. 4; v. 268; p. 77.
- Luyties, Otto G., Sharon Springs, N. Y. Automobile. No. 1,299,844; Apr. 8; v. 261; p. 308.
- Luzanski, Ferdynand. (See Billy, Peter, assignor.)
- Lyberger, Albert N., Elyria, Ohio, assignor of one-half to H. E. Wood, Chester, Pa. Car-replacer. No. 1,294,926; Feb. 18; v. 259; p. 521.
- Lyckland, Arthur M., and H. Wachenheimer, assignors to Wachenheimer Bros., Providence, R. I. Garment-holder. No. 1,300,852; Apr. 15; v. 261; p. 550.
- Lydon, Edward C., San Mateo, Cal. Lawn-renovator and treating lawns. No. 1,297,198; Mar. 11; v. 260; p. 346.
- Lydon, John F., Kansas City, Mo. Anticreeping means for railway-rails. No. 1,318,502; Oct. 14; v. 267; p. 222.
- Lydon, Martin W., Andover, Mass. Fountain. No. 1,324,164; Dec. 9; v. 269; p. 221.
- Lydon, Richard P. (See Pittman and Midboe, assignors.)
- Lyle, Gordon H., East Falls Church, Va. Calculating-machine. No. 1,324,561; Dec. 9; v. 269; p. 298.
- Lyhne, Anker S., Bridgeport, Conn. Flash-light battery. No. 1,307,868; June 24; v. 263; p. 586.
- Lykken, Henry G. (See Schmidt and Lykken.)
- Lyle, Claud P., Atlanta, Ga. Ventilator. No. 1,305,389; June 3; v. 263; p. 30.
- Lyle Corrugated Culvert Company. (See Frazer and Robertson, assignors.)
- Lyle, Merwin E., J. J. Scully, and F. L. Capps, assignors to American Graphophone Company, Bridgeport, Conn. Talking-machine. No. 1,293,489; Feb. 4; v. 259; p. 119.
- Lyle, Percy A. (See Kinney, Charles S., assignor.)
- Lyle, William G., trustee. (See Falk and Frankel, assignors.)
- Lyman, Edmund R., Seattle, Wash. Game. No. 1,317,880; Oct. 7; v. 267; p. 42.
- Lyman, Henry D., Minneapolis, Minn. Display device. No. 1,313,548; Aug. 19; v. 265; p. 371.
- Lyman, Arthur H., and N. E. Rambush, London, England. Recovery of ammonia from producer-gas. No. 1,309,143; July 8; v. 264; p. 238.
- Lynch, Daniel J., Highland Park, Mich. Dump-body. No. 1,291,574; Jan. 14; v. 258; p. 395.
- Lynch, George J., New York, N. Y. Alarm device. No. 1,325,161; Dec. 16; v. 269; p. 472.
- Lynch, James W., East St. Louis, Ill., assignor to Obeart-Nester Glass Company, St. Louis, Mo. Glass-blowing machine. No. 1,297,706; Mar. 18; v. 260; p. 434.
- Lynch, John A., Philadelphia, Pa. Floating ship-form.
- Lynch, Leslie J., Lorena, Okla. Animal-poke. No. 1,298,985; Apr. 1; v. 261; p. 86.
- Lynch, Michael A., and J. P. F. White, Washington, D. C. Closure for tanks. No. 1,308,794; July 8; v. 264; p. 172.
- Lynch, Timothy H. (See Lynch, William L., assignor.)
- Lynch, Tillman D., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Contact-terminal. No. 1,317,203; Sept. 30; v. 266; p. 612.
- Lynch, William L. (See Vanderveer and Lynch.)
- Lynch, William L., assignor to T. H. Lynch, Brooklyn, N. Y. Drill-brace. No. 1,323,705; Dec. 2; v. 269; p. 90.
- Lynde, Frank G., assignor to Lauter Company, Newark, N. J. Motor-valve construction. No. 1,311,660; July 29; v. 264; p. 804.
- Lynes, William W., Kamloops, British Columbia, Canada. Potato-digging machine. No. 1,301,857; Apr. 29; v. 261; p. 817.
- Lynggard, Einar, French River, Minn. Swimming device. No. 1,293,490; Feb. 4; v. 259; p. 120.
- Lynn, George F., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,317,301; Sept. 30; v. 266; p. 631.
- Lynn, James J., Port Huron, Mich. Cargo vessel. No. 1,307,983; June 24; v. 263; p. 608.
- Lynn, Joseph J., Moose Jaw, Saskatchewan, Canada. Door-catch. No. 1,311,982; Aug. 5; v. 265; p. 24.
- Lynn Last Company. (See Ellis, Lee K., assignor.)
- Lynn, Silas H., Long Beach, Calif. Aerial and marine craft. No. 1,303,695; May 13; v. 262; p. 255.
- Lynne, Iver A., Hibbing, Minn. Reverse-valve for steam-engines. No. 1,321,765; Nov. 11; v. 268; p. 329.
- Lyon, Arthur A. (See Todman, Cooper, and Lyon.)
- Lyon, Frank A., Milford, N. Y. Draft-equalizer. No. 1,308,525; July 1; v. 264; p. 94.



## Alphabetical list of patentees—Continued.

- Lyon, Fred C., Fayette, Ohio. Phonograph sound-chamber or horn. No. 1,295,910; Mar. 4; v. 260; p. 20.
- Lyon, Fred C., Fayette, Ohio. Phonograph sound-chamber or horn. No. 1,295,911; Mar. 4; v. 260; p. 20.
- Lyon, George A., Philadelphia, Pa. Automobile-buffer. No. 1,325,727; Dec. 23; v. 269; p. 594.
- Lyon, George A., Philadelphia, Pa. Automobile-buffer. No. 1,325,728; Dec. 23; v. 269; p. 594.
- Lyon, George A., Philadelphia, Pa. Automobile-buffer. No. 1,325,729; Dec. 23; v. 269; p. 594.
- Lyon, George A., Philadelphia, Pa. Buffer for automobiles. No. 1,325,730; Dec. 23; v. 269; p. 595.
- Lyon, George A., Philadelphia, Pa. Supporting device for automobile-buffers. No. 1,325,731; Dec. 23; v. 269; p. 595.
- Lyon, George A., Philadelphia, Pa. Reinforced automobile-buffer. No. 1,325,732; Dec. 23; v. 269; p. 595.
- Lyon, George A., Philadelphia, Pa. Adjustable automobile-buffer. No. 1,325,733; Dec. 23; v. 269; p. 595.
- Lyon, George A., Philadelphia, Pa. Channel-bar automobile-buffer. No. 1,325,734; Dec. 23; v. 269; p. 595.
- Lyon, George A., Philadelphia, Pa. Reinforced vehicle-buffer. No. 1,325,735; Dec. 23; v. 269; p. 595.
- Lyon, George A., Philadelphia, Pa. Automatic-buffer. No. 1,325,736; Dec. 23; v. 269; p. 596.
- Lyon, George A., Philadelphia, Pa. Automatic-buffer. No. 1,325,737; Dec. 23; v. 269; p. 596.
- Lyon, George A., Philadelphia, Pa. Automobile-buffer. No. 1,325,738; Dec. 23; v. 269; p. 596.
- Lyon, George A., Philadelphia, Pa. Channel-bar buffer. No. 1,325,739; Dec. 23; v. 269; p. 596.
- Lyon, George A., Philadelphia, Pa. Automatic-buffer. No. 1,325,740; Dec. 23; v. 269; p. 596.
- Lyon, George A., Philadelphia, Pa. Adjustable automobile-buffer. No. 1,325,741; Dec. 23; v. 269; p. 596.
- Lyon, George A., Philadelphia, Pa. Automobile-buffer. No. 1,325,742; Dec. 23; v. 269; p. 596.
- Lyon, George A., Philadelphia, Pa. Automobile-buffer. No. 1,325,743; Dec. 23; v. 269; p. 597.
- Lyon, George A., Philadelphia, Pa. Resilient automobile-buffer. No. 1,325,745; Dec. 23; v. 269; p. 597.
- Lyon, George A., Philadelphia, Pa. Automobile-buffer. No. 1,325,746; Dec. 23; v. 269; p. 597.
- Lyon, George A., assignor to Lyon Non-Skid Company, Philadelphia, Pa. Support for buffers for motor-cars. No. 1,319,099; Oct. 21; v. 267; p. 361.
- Lyon, George A., assignor to Lyon Non-Skid Company, Philadelphia, Pa. Buffer for motor-cars. No. 1,325,744; Dec. 23; v. 269; p. 597.
- Lyon, Harry, Brockton, Mass., assignor to Brockton Rand Company. Making welts and the resultant product. No. 1,292,135; Feb. 4; v. 259; p. 38.
- Lyon, Harry, Brockton, Mass., assignor to Brockton Rand Company. Welt and making. No. 1,293,136; Feb. 4; v. 259; p. 38.
- Lyon & Healy. (See Kirk, Walter I., assignor.)
- Lyon & Healy. (See Lanbach, Franz, assignor.)
- Lyon, Henry H. (See Rogers and Lyon.)
- Lyon, Henry H., Buffalo, N. Y. Electrical measuring instrument. No. 1,292,496; Jan. 28; v. 258; p. 671.
- Lyon, Leonidas N., Flatonia, Tex. Cultivation of soil. No. 1,306,547; June 10; v. 263; p. 279.
- Lyon Non-Skid Company. (See Lyon, George A., assignor.)
- Lyon, Ossian G., Akron, Ohio. Inflator and tester for toy balloons. No. 1,321,833; Nov. 18; v. 268; p. 393.
- Lyon, Robert N., and J. J. Hill, Kellogg, Idaho. Adjustable finger-hook. No. 1,322,458; Nov. 18; v. 268; p. 510.
- Lyons, A. (See Estes, William B. Sr., assignor.)
- Lyons, Albert J., Milwaukee, Wis. Shipping-tag. No. 1,306,492; June 10; v. 263; p. 269.
- Lyons, Charles D., Mansfield, Mass. Separable cuff link-buttin. No. 1,314,599; Sept. 2; v. 266; p. 24.
- Lyons, Charlton H. (See Hughes and Lyons.)
- Lyons, Edgar S., Toronto, Ontario, Canada, assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,299,746; Apr. 8; v. 261; p. 285.
- Lyons, Edward, *et al.* (See Butterfield, Charles V., assignor.)
- Lyons, Elias M. (See Hansburg and Lyons.)
- Lyons, Joseph H., assignor to The Victor Brass Manufacturing Company, Cleveland, Ohio. Priming device for internal-combustion engines. No. 1,319,350; Oct. 21; v. 267; p. 409.
- Lyons, Lark L. (See Chapman and Lyons.)
- Lyons, Lark L., assignor of one-half to J. M. Jackson, Holdenville, Okla. Plunger-operating attachment for hay-balers. No. 1,291,961; Jan. 21; v. 258; p. 522.
- Lyons, Lowell W., and J. Willis, Los Angeles, Cal.; said Willis assignor to said Lyons. Roller-bearing. No. 1,296,827; Mar. 11; v. 260; p. 263.
- Lyons, Michael H., Brockton, Mass. Multiple-cutter lathe. No. 1,294,500; Feb. 18; v. 259; p. 422.
- Lyons, Patrick J., Philadelphia, Pa. Railway-crossing frog. No. 1,322,707; Nov. 25; v. 268; p. 608.
- Lyons, Robert E., Bloomington, Ind. Recovery of precious metals. No. 1,293,828; Feb. 11; v. 259; p. 230.
- Lyons, Robert L., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Sewing-machine. No. 1,302,394; Apr. 29; v. 261; p. 919.
- Lyons, William H., Bena, Minn. Road-grader. No. 1,318,093; Oct. 7; v. 267; p. 82.
- Lypka, Stephen, Langenburg, Saskatchewan, Canada. Lock. No. 1,299,199; Apr. 1; v. 261; p. 133.
- Lyth, Alfred, Buffalo, N. Y. Building-wall. No. 1,293,491; Feb. 4; v. 259; p. 120.
- Lyth, John J. (See Lowe and Lyth.)
- Lyth, John J., Valleyfield, Quebec, Canada. Cloth-piling machine. No. 1,321,834; Nov. 18; v. 268; p. 393.
- Lyth, John J., assignor of one-half to J. Lowe, Valleyfield, Quebec, Canada. Spinning-frame. No. 1,317,302; Sept. 30; v. 266; p. 631.
- Lytle, Harry, Liberal, Mo. Folding chicken-coop. No. 1,306,267; June 10; v. 263; p. 228.
- Lytle, Myron W. (See Smith, Charles, assignor.)
- Lyttle, Frances, Pasadena, Cal. Juice-extractor. No. 1,290,262; Jan. 7; v. 258; p. 60.
- Lyttle, Frances, Pasadena, Calif. Combined utensil and strainer. No. 1,319,017; Oct. 14; v. 267; p. 320.
- Lytton, Jarad W., Norfolk, Va. Return-trap. No. 1,316,843; Sept. 23; v. 266; p. 508.
- Lytton, Jarad W., assignor to Lytton Manufacturing Corporation, Franklin, Va. Steam-trap. No. 1,291,962; Jan. 21; v. 258; p. 522.
- Lytton Manufacturing Corporation. (See Lytton, Jarad W., assignor.)
- Lzarnopyski, Piotr. (See Roy, George, assignor.)
- M. Goudard & Mennesson. (See Mennesson, Marcel, assignor.)
- M. Schulz Company. (See Gustafson, Adolph P., assignor.)
- M. Welte & Sons. (See Bockisch, Heinrich, assignor.)
- M. Welte & Sons. (See Welte, Edwin, assignor.)
- M. B. Knowlton Company. (See Seymour, Charles R., assignor.)
- M. C. White Company. (See White, Morris C., assignor.)
- M. D. Knowlton Company. (See De Smith, Henry, assignor.)
- M. D. Knowlton Company. (See Hawkins, Edgar M., assignor.)
- M. D. Knowlton Company. (See Hoch, Otto M., assignor.)
- M. D. Knowlton Company. (See Pearsall, Chester B., assignor.)
- M. D. Knowlton Company. (See Seymour and Hoch, assignors.)
- M. H. Detrick Co. (See Detrick, Myron H., assignor.)
- M. H. Detrick Co. (See Hosbein, Louis H., assignor.)
- M. J. Brandenstein & Co. (See Pisani, William H., assignor.)
- M. J. Wohl & Company. (See Wohl, Maurice J., assignor.)
- M. & K. Corset Co., The. (See Kellogg and Rockett, assignors.)
- M-L Magneto Syndicate, The. (See Watson, Ernest A., assignor.)
- M. and M. Concrete and Machinery Company. (See McIntyre, David, assignor.)
- M. S. Wright Company. (See Wright, Morris S., assignor.)
- Maag, Max, Zurich, Switzerland. Gear-cutting machine. No. 1,290,270; Jan. 7; v. 258; p. 62.
- Mabee, Charles R., assignor to Long Point Creameries Company, Toledo, Ohio. Air heater and distributor. No. 1,323,889; Dec. 2; v. 269; p. 125.
- Mabie, Todd & Co. (See Catucci, Homer, assignor.)
- Mabin, John W., Red Wing, Minn. Fanning-mill. No. 1,309,329; July 8; v. 264; p. 272.
- MacAndrew & Forbes Company. (See Meigs, Charles H., assignor.)
- MacBride, James H., Taft, Cal. Razor-stropping device. No. 1,290,617; Jan. 7; v. 258; p. 146.
- MacCarthy, James L., Brooklyn, N. Y. Signal-light and rear light for vehicles. No. 1,292,400; Jan. 21; v. 258; p. 627.
- MacCorkell, Ronald W., Oakland, Calif. Fountain-brush. No. 1,309,900; July 15; v. 264; p. 415.
- MacCormac, Rockwell M., Kansas City, Mo. Paper-roll and holder therefor. No. 1,308,912; July 8; v. 264; p. 194.
- MacDonagh, Frank L., assignor to Acme Card System Company, Chicago, Ill. Filing system. No. 1,296,681; Mar. 11; v. 260; p. 230.
- MacDonald, Alan. (See Roche and MacDonald.)
- MacDonald, Augustine A. (See Jarvis, Charles A., assignor.)
- MacDonald, Charles A., and M. P. Dougherty, assignors of one-half to C. J. Pembroke and one-half to F. Keiper, Rochester, N. Y. Press-guard. No. 1,314,750; Sept. 2; v. 266; p. 52.
- MacDonald, Frank T., South Penobscot, Me. Flue or chimney cleaning apparatus. No. 1,315,849; Sept. 9; v. 266; p. 260.
- MacConnell, Hugh C., Philadelphia, Pa., assignor to R. Hoe, New York, N. Y. Machine for finishing stereotype and other curved plates. No. 1,324,562; Dec. 9; v. 269; p. 298.
- MacDonald, Howard D., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Dynamometer-brake. No. 1,316,100; Sept. 16; v. 266; p. 321.
- MacDonald, Howard G. (See Mahoney and MacDonald.)



- MacDonald, Howard G., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,293,842; Feb. 11; v. 259; p. 233.
- MacDonald, Howard G., Murraysville, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switching device. No. 1,320,078; Oct. 28; v. 267; p. 570.
- MacDonald, James M., East Orange, N. J. Molding and ornamenting plastic substances. No. 1,301,069; Apr. 15; v. 261; p. 598.
- MacDonald, Norman J., Winnipeg, Manitoba, Canada. Portable house. No. 1,297,379; Mar. 18; v. 260; p. 414.
- MacDougall, Archibald J., assignor to National Electro Products, Limited, Toronto, Ontario, Canada. Electrolytic apparatus. No. 1,324,511; Dec. 9; v. 269; p. 289.
- MacDougall, Harry W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,312,795; Aug. 12; v. 265; p. 209.
- MacDowell, Charles H., and P. R. Hershman, Chicago, Ill., assignors to Mineral Products Corporation, New York, N. Y. Purifying aluminous material. No. 1,291,979; Jan. 21; v. 258; p. 526.
- MacDowell, Glenn J., Chicago, Ill. Finder attachment for cameras. No. 1,293,149; Feb. 4; v. 259; p. 41.
- MacDowell, Glenn J., Chicago, Ill. Film-aligning spring for cameras. No. 1,293,150; Feb. 4; v. 259; p. 41.
- MacDowney, Silas C., Chicago, Ill. Measuring instrument. No. 1,299,978; Apr. 8; v. 261; p. 336.
- MacEachern, Peter A. (See MacRae and MacEachern.)
- MacFarland, Allison M., assignor of one-half to H. Bernhardt, Buffalo, N. Y. Labeling-machine. No. 1,294,290; Feb. 11; v. 259; p. 337.
- MacFarland, Allison M., assignor to L. M. Kohn, Buffalo, N. Y. Sheet-folding machine. No. 1,313,712; Aug. 19; v. 265; p. 401.
- MacFarland, Allison M., assignor to L. M. Kohn, Buffalo, N. Y. Sheet-folding machine. No. 1,313,713; Aug. 19; v. 265; p. 402.
- MacFarlane, Oliver P. (See Wade, Jessie, assignor.)
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-extinguishing device. No. 1,308,249; July 1; v. 264; p. 44.
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Arc-extinguishing device. No. 1,308,365; July 1; v. 264; p. 65.
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. No. 1,312,796; Aug. 12; v. 265; p. 209.
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical protective device. No. 1,314,825; Sept. 2; v. 266; p. 66.
- MacGillivray, John D., Antigonish, Nova Scotia, Canada. Aeroplane-indicator. No. 1,316,313; Sept. 16; v. 266; p. 361.
- MacGregor, Charles G., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Flying-boat hull. No. 1,316,908; Sept. 23; v. 266; p. 521.
- MacGregor, Peter G., New York, N. Y., assignor to Pyrene Manufacturing Company. Valve construction. No. 1,326,358; Dec. 30; v. 269; p. 748.
- MacGregor, Wallace F., Racine, Wis., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker. No. 1,320,079; Oct. 28; v. 267; p. 570.
- MacGuire, William E. (See Ervin and MacGuire.)
- MacIndoe, John F., Philadelphia, Pa. Lubricator. No. 1,300,751; Apr. 15; v. 261; p. 528.
- MacIndoe, John F., assignor to Franklin Brass Manufacturing Company, Philadelphia, Pa. Oilier. No. 1,290,618; Jan. 7; v. 258; p. 146.
- MacInnes, Neil, Chicago, Ill. Rack for umbrellas and the like. No. 1,313,896; Aug. 26; v. 265; p. 469.
- MacKay, John F., Bordentown, and G. W. Cisco, Hawthorne, N. J. Heat-regulating means for incubators and the like. No. 1,292,343; Jan. 21; v. 258; p. 614.
- MacKay, John F., Bordentown, and G. W. Cisco, Hawthorne, N. J. Incubator. No. 1,293,495; Feb. 4; v. 259; p. 121.
- MacKay, Joseph E., Los Angeles, Calif. Tire. No. 1,324,165; Dec. 9; v. 269; p. 221.
- MacKay, Vasil, Hudson, Mass. Furnace-hopper. No. 1,317,028; Sept. 23; v. 266; p. 543.
- MacKaye, James, Cambridge, Mass., assignor to River Smelting & Refining Company, St. Louis, Mo. Basic ferric sulfate and preparing same. No. 1,316,909; Sept. 23; v. 266; p. 521.
- MacKenzie, Fred L., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,312,557; Aug. 12; v. 265; p. 162.
- MacKenzie, George W., Jr., assignor to Guarantee Liquid Measure Company, Rochester, Pa. Liquid-measuring apparatus. No. 1,297,210; Mar. 11; v. 260; p. 349.
- MacKenzie, George W., Jr., Beaver, assignor to Guarantee Liquid Measure Company, Rochester, Pa. Adjustable stop mechanism for liquid-dispensing apparatus. No. 1,326,207; Dec. 30; v. 269; p. 720.
- MacKenzie, George W., Jr., Beaver, and R. Crowder, Edgewood, assignors to Guarantee Liquid Measure Company, Rochester, Pa. Measuring and dispensing pump. No. 1,311,172; July 29; v. 264; p. 713.
- MacKenzie, John, Syracuse, N. Y. Seal-lock. No. 1,326,761; Dec. 30; v. 269; p. 824.
- MacKenzie, Roy J., Buffalo, assignor to Buffalo Pressed Steel Co., New York, N. Y. Exhaust-muffler. No. 1,318,890; Oct. 14; v. 267; p. 296.
- MacLachlan, Hugh W., Petaluma, Calif. Separable telescope or opera-glass. No. 1,299,750; Apr. 8; v. 261; p. 286.
- MacLachlan, John C., St. Paul, Minn. Apparatus for granulating heavy semifluid materials. No. 1,301,288; Apr. 22; v. 261; p. 678.
- MacLachlan, John D., Chadwick, Mo. Fire-tube boiler. No. 1,304,496; May 20; v. 262; p. 444.
- MacLagan, Hector P., Park Ridge, assignor to McIntosh Battery and Optical Co., Chicago, Ill. Dental film-holder. No. 1,321,465; Nov. 11; v. 268; p. 273.
- MacLean, Frederick F., assignor, by mesne assignments, of one-half to L. G. Lacy, Syracuse, N. Y. Headlight for motor-vehicles. No. 1,292,840; Jan. 28; v. 258; p. 754.
- MacLean, John A., Wilmette, Ill. Nut-lock. No. 1,326,279; Dec. 30; v. 269; p. 734.
- MacLean, John P., Hamilton, New South Wales, Australia. Shock-absorber. No. 1,306,016; June 10; v. 263; p. 178.
- MacLennan, Joseph A., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Conveyer. No. 1,300,438; Apr. 15; v. 261; p. 462.
- MacMillan, John R., Niagara Falls, N. Y. Manufacture of manganates. No. 1,318,891; Oct. 14; v. 267; p. 296.
- MacMillan, Walter C. (See Joanne and MacMillan.)
- MacMonagle, Roy O. (See Meyer and MacMonagle.)
- MacMurtry, Friend A., North Bennington, Vt. Damper-controlling mechanism. No. 1,291,980; Jan. 21; v. 258; p. 526.
- MacMurtry, Thomas J., Jr., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-indenting machine. No. 1,290,619; Jan. 7; v. 258; p. 146.
- MacNab, Malcolm D., Chicago, Ill., assignor to Automatic Utilities Co. Automatic card-index device. No. 1,317,142; Sept. 23; v. 266; p. 565.
- MacNichol, George P., assignor, by mesne assignments, to J. N. Willys, Toledo, Ohio. Glass-cutting mechanism. No. 1,298,987; Apr. 1; v. 261; p. 86.
- MacNicoll, Donald. (See Cockburn and MacNicoll.)
- MacPherson, William, Wichita, Kans. Oil-tank. No. 1,319,298; Oct. 21; v. 267; p. 399.
- MacQuesten, William D., Mount Vernon, N. Y., assignor to The Aurora Company, Inc. Washing-machine. No. 1,320,019; Oct. 28; v. 267; p. 559.
- MacQuiddy, D. H., et al. (See De Ford, Eugene E., assignor.)
- MacQuiddy, T. S., et al. (See De Ford, Eugene E., assignor.)
- MacRae, Lachlan D., and P. A. MacEachern, Nacozari, Mexico. Settling-tank. No. 1,313,714; Aug. 19; v. 265; p. 402.
- Macriline, John H., Pittsburgh, assignor to The Westinghouse Gear & Dynamometer Company, East Pittsburgh, Pa. Reversible coupling. No. 1,293,647; Feb. 4; v. 259; p. 156.
- Macraig, Jose. (See Urbano, Faustino B., assignor.)
- Macartney, Jack. (See Macartney, John H. and J.) (Reissue.)
- Macartney, John H. and J., assignors to H. T. Rudisill, trustee, Los Angeles, Calif. Centrifugal attritional pulverizer. (Reissue.) No. 1,476,464; Dec. 2; v. 269; p. 150.
- Macaw, Duncan, Norwood, Pa. Flower-pot support or hanger. No. 1,300,629; Apr. 15; v. 261; p. 502.
- Macbeth, Allan, assignor to Sté. The Dunlop Rubber Co. Limited, Paris, France. Non-metallic wall for reservoirs. No. 1,325,448; Dec. 16; v. 269; p. 524.
- Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Westminster, London, England. Vehicle-wheel. No. 1,305,820; June 3; v. 263; p. 111.
- Macbeth, Colin, Birmingham, assignor to The Dunlop Rubber Company, Limited, Westminster, London, England. Manufacture of the inner tubes of pneumatic tires. No. 1,323,706; Dec. 2; v. 269; p. 90.
- Macbeth, Colin, and H. C. Young, Birmingham, England, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England. Solid-rubber tire. No. 1,317,585; Sept. 30; v. 266; p. 686.
- Macbeth, Colin, and H. Willshaw, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England. Machine for calendaring vulcanite bases for solid-rubber tires. No. 1,320,334; Oct. 28; v. 267; p. 617.
- Macbeth, Colin, and W. H. Paull, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England. Wheel of vehicles, particularly aircraft. No. 1,326,679; Dec. 30; v. 269; p. 809.
- Macbeth, Colin, and E. Sullivan, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England. Manufacture of tires. No. 1,326,874; Dec. 30; v. 269; p. 846.



## Alphabetical list of patentees—Continued.

- Macbeth-Evans Glass Company. (See Baumann, Christy J., assignor.)
- Macbeth-Evans Glass Company. (See Griswold, Lester E., assignor.)
- Macbeth, Jeremont J., Dayton, Ohio. Gasolene-dispensing pump. No. 1,301,861; Apr. 29; v. 261; p. 818.
- Macbeth, Jeremont J., Dayton, Ohio. Spark-plug. No. 1,301,862; Apr. 29; v. 261; p. 818.
- Macdonald, Angus S. (See Macdonald, Harry P. and A. S.)
- Macdonald, Angus S., Great Neck Station, N. Y. Making tubing. No. 1,321,530; Nov. 11; v. 268; p. 285.
- Macdonald, Clayton E., Cleveland, Ohio. Automobile-headlight. No. 1,315,563; Sept. 9; v. 266; p. 208.
- Macdonald, David B., Leicester, and J. Calvert, Huddersfield, England; said Calvert assignor to said Macdonald. Manufacture of nitrophenols. No. 1,320,076; Oct. 28; v. 267; p. 560.
- Macdonald, David B., Leicester, and J. Calvert, Huddersfield, England; said Calvert assignor to said Macdonald. Manufacture of nitrophenols. No. 1,320,077; Oct. 28; v. 267; p. 569.
- Macdonald, Duncan, Pittsburgh, Pa. Automobile driving mechanism. No. 1,314,528; Sept. 2; v. 266; p. 10.
- Macdonald, Harry P., Montclair, N. J., and A. S. Macdonald, Great Neck Station, N. Y., assignors to The Sneed & Co. Iron Works, Jersey City, N. J. Method of and apparatus for bending tubes. No. 1,295,048; Feb. 18; v. 259; p. 548.
- Macdonald, James, and R. P. Durham, Chicago, Ill. Constructing monolithic vessels. No. 1,324,744; Dec. 9; v. 269; p. 333.
- Macdonald, James R., assignor of one-eighth to C. B. Jones and one-eighth to C. W. Browne, Baltimore, Md. Shaft-coupling. No. 1,318,455; Oct. 14; v. 267; p. 213.
- Macdonald, John D., assignor to The Forbes Lithograph Manufacturing Company, Boston, Mass., Carton. No. 1,299,849; Apr. 8; v. 261; p. 309.
- Macdonald, John W. F., Brighton, Mass., assignor to The Merrill Process Company. Automatic valve control. No. 1,299,850; Apr. 8; v. 261; p. 309.
- Macdonald, John W. F., Brighton, Mass., assignor to The Merrill Process Company. Heater. No. 1,301,863; Apr. 29; v. 261; p. 819.
- Macdonald, Murdock, Cleveland, Ohio. Holder for tickets and the like. No. 1,309,255; July 8; v. 264; p. 258.
- Mace, Alfred C., assignor to National Biscuit Company, New York, N. Y. Container. No. 1,303,934; May 20; v. 262; p. 337.
- Macé, Jules, Grasse, France. Permutation-lock. No. 1,317,304; Sept. 30; v. 266; p. 631.
- Macecervic, Joseph, Pittsburgh, Pa. Wrench. No. 1,301,472; Apr. 22; v. 261; p. 713.
- Macfadden, Bernarr, New York, N. Y. Heating and humidifying system. No. 1,291,579; Jan. 14; v. 258; p. 396.
- Macfadden, Bernarr, New York, N. Y. Air-supply moistener for internal-combustion engines. No. 1,309,254; July 8; v. 264; p. 258.
- Macfadden, Bernarr, New York, N. Y. Combined cooling, ventilating, heating, humidifying, and purifying apparatus. No. 1,309,953; July 15; v. 264; p. 425.
- Macfadden, Bernarr, New York, N. Y. Radiator. No. 1,322,803; Nov. 25; v. 268; p. 626.
- Macfadden, Bernarr, New York, N. Y. Air-drier. No. 1,322,804; Nov. 25; v. 268; p. 626.
- Macfarlane, George T., Pinner, England. Winch. No. 1,323,299; Dec. 2; v. 269; p. 14.
- Macfarlane, George T., Pinner, England. Winch. No. 1,323,550; Dec. 2; v. 269; p. 62.
- Macfarlane, George T., Pinner, England. Windlass. No. 1,323,298; Dec. 2; v. 269; p. 14.
- Macfarren, Walter W., Pittsburgh, Pa. Internal-combustion engine. No. 1,325,305; Dec. 16; v. 269; p. 499.
- Macfarren, Walter W., Pittsburgh, Pa. Traction-truck. No. 1,317,518; Sept. 30; v. 266; p. 672.
- Macfie, Robert F., London, England. Motor-vehicle. No. 1,298,366; Mar. 25; v. 260; p. 649.
- Macfie, Robert F., London, England. Self-propelled vehicle. No. 1,298,367; Mar. 25; v. 260; p. 649.
- Macbiet, George F., Elizabeth, N. J. Pyrometer, &c. No. 1,294,688; Feb. 18; v. 259; p. 466.
- Macbiet, George F., Elizabeth, N. J. Furnace-regulating device. No. 1,306,015; June 10; v. 263; p. 178.
- Macinante, Joseph, Paddington, near Sydney, New South Wales, Australia. Propulsion of aerial or water vehicles. No. 1,326,760; Dec. 30; v. 269; p. 824.
- Mack, Carl, New York, N. Y., assignor to H. C. Karlson. Hasbrouck Heights, N. J. Ejecting-machine. No. 1,300,219; Apr. 8; v. 261; p. 390.
- Mack, Floyd E., Lockport, N. Y., and F. R. Foster, Jonesboro, Tenn., assignors to Mack-Foster Co., Norristown, Pa. Oil-burner. No. 1,299,491; Apr. 8; v. 261; p. 227.
- Mack-Foster Co. (See Mack and Foster, assignors.)
- Mack, Harry M., Calgary, Alberta, Canada. Fuel control for automobiles. No. 1,304,495; May 20; v. 262; p. 444.
- No. 1,302,570; May 6; v. 262; p. 17.
- Mack, J. O. (See Edwards, Charles R., assignor.)
- Mack, James O., Houston, Tex. Washer for well-screens. No. 1,305,914; June 3; v. 263; p. 129.
- Mack, James O., Houston, Tex. Well-screen. No. 1,305,915; June 3; v. 263; p. 129.
- Mack, James O., Alexandria, La. Tunneling apparatus. No. 1,317,586; Sept. 30; v. 266; p. 686.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Packing structure. No. 1,299,363; Apr. 1; v. 261; p. 171.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Well-packer. No. 1,303,091; May 6; v. 262; p. 116.
- Mack, William, New York, N. Y. Aquarium. No. 1,322,322; Nov. 18; v. 268; p. 484.
- Mackay, Catherine, Toronto, Ontario, Canada. Wash-boiler. No. 1,325,483; Dec. 16; v. 269; p. 531.
- Mackay, Vasil, Boston, Mass. Coking-hopper. No. 1,322,323; Nov. 18; v. 268; p. 484.
- Mackay, William A., Coytesville, N. J., assignor of one-half to J. O. Fisher, Lewiston, Me. Rendering objects less visible against backgrounds. No. 1,305,296; June 3; v. 263; p. 13.
- Mackay, William M., East Orange, N. J. Sectional boiler. No. 1,306,675; June 10; v. 263; p. 302.
- Mackay, William M., East Orange, N. J. Sectional steam or water boiler with water-grate. No. 1,310,198; July 15; v. 264; p. 469.
- Mackenzie, Fred L., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,313,903; Aug. 26; v. 265; p. 471.
- Mackeown, Ida C., assignor to Helen P. Singer Co., Inc., New York, N. Y. Doll. No. 1,315,378; Sept. 9; v. 266; p. 175.
- Mackey, Jay A., Lynn, assignor of one-half to T. C. Rowen, Swampscott, Mass. Micrometer. No. 1,323,707; Dec. 2; v. 269; p. 90.
- Mackey, Joseph L., Fowler, Ill. Folding table. No. 1,307,784; June 24; v. 263; p. 570.
- Mackey, Louis E., and F. W. Ormiston, Detroit, Mich. Winding and rewinding mechanism. No. 1,309,256; July 8; v. 264; p. 258.
- Mackie, Peter H., Maxwellton, Wash. Pile-driver hammer. No. 1,307,590; June 24; v. 263; p. 535.
- Mackie, Robert. (See Donaldson and Mackie.)
- Mackiewicz, Stanislaw, Kokomo, Colo. Bullet. No. 1,293,653; Feb. 4; v. 259; p. 158.
- Mackiewicz, Stanislaw, Wortman, Colo. Toilet article. No. 1,298,750; Apr. 1; v. 261; p. 31.
- Mackin, Richard, Groveton, N. H. Wrench. No. 1,295,546; Feb. 25; v. 259; p. 687.
- Mackintosh, Archibald W. (See Clark, James B., assignor.)
- Mackintosh, Edith M., et al. (See Mackintosh, Edward D., assignor.)
- Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Lining for centrifugal machines. No. 1,313,227; Aug. 12; v. 265; p. 294.
- Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Centrifugal machine. No. 1,321,766; Nov. 11; v. 268; p. 330.
- Mackintosh, Edward D., Brooklyn, assignor to S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y. Centrifugal machine. No. 1,321,767; Nov. 11; v. 268; p. 330.
- Mackintosh, Edward D., assignor to E. M. Mackintosh, Brooklyn, and S. S. Hepworth Company, New York, N. Y. Centrifugal-machine discharger. No. 1,326,411; Dec. 30; v. 269; p. 758.
- Mackintosh, William B., Detroit, Mich., assignor to Coats Machine Tool Company, Inc., New York, N. Y. Gate. No. 1,316,844; Sept. 23; v. 266; p. 509.
- MacLaren, James G., Harrison, N. Y. Coupling for pneumatic-despatch tubes. No. 1,302,944; May 6; v. 262; p. 88.
- MacLaren, James G., Mamaroneck, N. Y. Carrier-distributor. No. 1,323,708; Dec. 2; v. 269; p. 91.
- Maclean, David A., San Francisco, Calif. Steam-generator. No. 1,324,607; Dec. 9; v. 269; p. 307.
- Macloed, Albert A. (See Brown and Macloed.)
- Macloed, Albert A., Swampscott, and L. M. Brown, deceased, (M. E. Brown, administratrix,) Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,319,232; Oct. 21; v. 267; p. 387.
- Macloed, Walter, Cincinnati, Ohio. Furnace for melting metals. No. 1,312,129; Aug. 5; v. 265; p. 52.
- Macklind, William R., Chicago, Ill. Treating and separating system. No. 1,311,828; July 29; v. 264; p. 834.
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Air-brake system. No. 1,297,884; Mar. 18; v. 260; p. 522.
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Car-controller. No. 1,298,528; Mar. 25; v. 260; p. 686.
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Automatic decelerating air-brake equipment. No. 1,301,723; Apr. 22; v. 261; p. 761.
- Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. No. 1,313,102; Aug. 12; v. 265; p. 270.



- Macneale, Neil. (See Pierce and Macneale.)
- Macneale, Neil, Cincinnati, Ohio, assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Electric riveting apparatus. No. 1,297,965; Mar. 18; v. 260; p. 539.
- Macneale, Neil, Cincinnati, Ohio, assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Electric riveting apparatus. No. 1,297,966; Mar. 18; v. 260; p. 540.
- Macneale, Neil, assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Spot-light for automobiles. No. 1,304,787; May 27; v. 262; p. 537.
- Macomic, Chester A., Chicago, Ill. Type-setting machine. No. 1,301,146; Apr. 22; v. 261; p. 649.
- Macpherson, Albert D., Chicago, Ill. Electric heating apparatus. No. 1,321,221; Nov. 11; v. 268; p. 226.
- Macpherson, Donald D., Radbrook Hall, near Shrewsbury, England. Folding device for treating multiply fabrics. No. 1,305,141; May 27; v. 262; p. 602.
- Macpherson, Peter, Worcester, Mass., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company. Cartridge-belt loom. No. 1,322,708; Nov. 25; v. 268; p. 608.
- Macrae, Roderick, Chicago, Ill. Sail-controlling system. No. 1,304,788; May 27; v. 262; p. 537.
- Macropoulos, Constantine D., New York, N. Y. Rotary rectifier of alternating currents. No. 1,302,945; May 6; v. 262; p. 88.
- Macwilliam, Hugh G., New Rochelle, N. Y. Skate. No. 1,316,251; Sept. 16; v. 266; p. 349.
- Macy, Charles B., Noblesville, Ind., assignor to C. E. Hawkins, Akron, Ohio. Machine for coating paper tubes. No. 1,304,189; May 20; v. 262; p. 383.
- Macy, John E., administrator. (See Angell, Edwin E., assignor.)
- Maddex, Elizabeth, Terre Haute, Ind. Overalls. No. 1,325,099; Dec. 16; v. 269; p. 460.
- Maddison, Sarah E., administratrix. (See Maddison, Walter, assignor.)
- Maddison, Walter, deceased; S. E. Maddison, administratrix, London, England. Micrometer-gage. No. 1,315,318; Sept. 9; v. 266; p. 164.
- Maddock, Clark T., Elyria, assignor of one-half to J. G. Schullian, Cleveland, Ohio. Rubber heel. No. 1,325,367; Dec. 16; v. 269; p. 510.
- Maddock, Ritchie S., H. L. Brown, Haverhill, and C. G. Sherman, Melrose, Mass.; said Brown assignor to said Sherman. Decorticating-machine. No. 1,315,521; Sept. 9; v. 266; p. 201.
- Maddox, Robert D., U. S. Army. Protractor. No. 1,292,957; Jan. 28; v. 258; p. 751.
- Maddox, Robert D., Washington, D. C. Adjustable tool-handle. No. 1,296,416; Mar. 4; v. 260; p. 135.
- Maddox, Robert D., U. S. Army. Surgical splint. No. 1,298,529; Mar. 25; v. 260; p. 686.
- Maddox, Robert D., U. S. Army. Mixing and grinding apparatus. No. 1,301,070; Apr. 15; v. 261; p. 598.
- Maddy, Lester G., Stockton, Kans. Draft-equalizer. No. 1,291,580; Jan. 14; v. 258; p. 396.
- Madell, Frederick J., Newark, assignor, by mesne assignments, to C. H. Streit, Nutley, N. J. Clasp. No. 1,291,052; Jan. 14; v. 258; p. 274.
- Mader, Joseph, Albany, N. Y. Flag-raising device. No. 1,321,837; Nov. 18; v. 268; p. 394.
- Madigan, Thomas J., New York, N. Y., assignor to Madigan Union Corporation, Wilmington, Del. Valve. No. 1,322,035; Nov. 18; v. 268; p. 430.
- Madigan Union Corporation. (See Madigan, Thomas J., assignor.)
- Madill, David, Salt Lake City, Utah. Stubbing-bar. No. 1,293,151; Feb. 4; v. 259; p. 41.
- Madison, John O., Brooklyn, N. Y. Trussed sheet structure. No. 1,300,439; Apr. 15; v. 261; p. 462.
- Madison, John O., Brooklyn, N. Y. Trussed-sheet construction. No. 1,302,822; May 6; v. 262; p. 65.
- Madison, John O., Brooklyn, N. Y. Building construction. No. 1,317,519; Sept. 30; v. 266; p. 673.
- Madison-Kipp Lubricator Company. (See Putnam, William H., assignor.)
- Madison, Peter R., Covington township, Dakota county, Nebr. Seed-potato cutter. No. 1,322,709; Nov. 25; v. 268; p. 609.
- Madress, Frank P., Panama, Canal Zone. Pipe. No. 1,291,053; Jan. 14; v. 258; p. 275.
- Madsen, Chresten T., Oakland, Cal. Folding bed. No. 1,291,054; Jan. 14; v. 258; p. 275.
- Madsen, Chresten T., Oakland, Cal. Concrete-mixer. No. 1,291,981; Jan. 21; v. 258; p. 526.
- Madsen, Chresten T., Oakland, Cal. Miter-square. No. 1,294,816; Feb. 18; v. 259; p. 496.
- Madsen, Chresten T., Oakland, Cal. Saw-set. No. 1,294,817; Feb. 18; v. 259; p. 496.
- Madsen, Chresten T., Oakland, Calif. Combination-tool. No. 1,305,821; June 3; v. 263; p. 111.
- Madsen, Chresten T., Oakland, Calif. Coffee-pot. No. 1,305,822; June 3; v. 263; p. 112.
- Madsen, Cornelius, Chicago, Ill. Upholstery. No. 1,323,370; Dec. 2; v. 269; p. 28.
- Madsen, Martin, et al. (See Potts, Thomas E., assignor.)
- Madsen, Peter, et al. (See Potts, Thomas E., assignor.)
- Madsen, Rasmus H., Los Angeles, Cal. Lawn-mower grinder. No. 1,291,982; Jan. 21; v. 258; p. 526.
- Madsen, Viggo J., Fargo, N. D. Wall structure. No. 1,295,341; Feb. 25; v. 259; p. 638.
- Madunicky, John, Chicago, Ill. Lock. No. 1,323,709; Dec. 2; v. 269; p. 91.
- Mae, Anton, New Haven, Conn. Pliers. No. 1,313,399; Aug. 19; v. 265; p. 342.
- Maegly, Frederick C., Chicago, Ill. Celled carton. No. 1,313,948; Aug. 26; v. 265; p. 480.
- Maegly, George B., Kansas City, Mo., assignor to Stromberg Motor Devices Company, Chicago, Ill. Circuit-breaker for ignition systems. No. 1,306,071; June 10; v. 263; p. 188.
- Maehtler, Arthur, Chicago, Ill. Sectional oven-wall. No. 1,320,882; Nov. 4; v. 268; p. 99.
- Maeland, Johannes. (See Stokke and Larsen, assignor.)
- Maeurer, Frederick J. (See Bird and Maeurer.)
- Maffitt, Thomas S. (See Goltra, Maffitt, Dana, and Erwin.)
- Maffitt, Thomas S., St. Louis, Mo., assignor, by mesne assignments, to Mississippi Valley Iron Company, Wilmington, Del. Apparatus for treating iron ores preparatory to magnetic separation. No. 1,295,780; Feb. 25; v. 259; p. 740.
- Mafreto Machine and Tool Company. (See Reimers, George E., assignor.)
- Magaton, Silvio, Brooklyn, N. Y. Safety gas cut-off. No. 1,321,656; Nov. 11; v. 268; p. 308.
- Magee Carpet Company. (See McCollum, Alfred F., assignor.)
- Magee, Chauncey L. C., Chicago, Ill. Radiator-heater. No. 1,300,440; Apr. 15; v. 261; p. 462.
- Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Bunsen burner. No. 1,294,504; Feb. 18; v. 259; p. 423.
- Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Gas and water controlling device for water-heaters. No. 1,309,295; July 8; v. 264; p. 266.
- Magee, James. (See McCollum, Alfred F., assignor.)
- Magee, John, assignor to Diamond Power Specialty Company, Detroit, Mich. Boiler-fue cleaner. No. 1,324,201; Dec. 9; v. 269; p. 229.
- Maggard, Elisha E., Morehead, Ky. Motion-picture apparatus. No. 1,308,293; July 1; v. 264; p. 52.
- Magie, William E. (See Ferris and Magie.)
- Magie, William E., Evansville, Ind. Control-gear for hydraulic transmission. No. 1,299,751; Apr. 8; v. 261; p. 287.
- Magie, William E., Buffalo, N. Y., and W. Ferris, Milwaukee, Wis. Leakage-return for hydraulic transmissions. No. 1,312,701; Aug. 12; v. 265; p. 191.
- Magill, Charles T., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Furnace for annealing condenser-tubes. No. 1,307,744; June 24; v. 263; p. 563.
- Magill, Frederick B., St. Marys, Ohio. Gun-sight. No. 1,313,549; Aug. 19; v. 265; p. 371.
- Magin, Carl J., assignor of one-half to I. Mayer, Belleville, Ill. Attachment for cornets and other brass instruments. No. 1,301,147; Apr. 22; v. 261; p. 649.
- Magley, John, Leavittsburg, Ohio. Fence-post. No. 1,293,612; Feb. 4; v. 259; p. 147.
- Magnan, Henry, Beaulieu, Minn. Post-puller. No. 1,295,547; Feb. 25; v. 259; p. 687.
- Magnasco, Giovanni, Genoa, Italy. Method and machine for the manufacture of reinforced sheet material. No. 1,316,845; Sept. 23; v. 266; p. 509.
- Magness, Grover C., Sardis, La. Rat-poisoning device. No. 1,292,624; Jan. 28; v. 258; p. 704.
- Magness, Grover C., Sardis, La. Electric-light bracket. No. 1,297,211; Mar. 11; v. 260; p. 349.
- Magnusen, James, Chicago, Ill. Yarn-winder. No. 1,294,291; Feb. 11; v. 259; p. 338.
- Magnuson, Alfred V. (See Ziebarth and Magnuson.)
- Magnuson, Gustaf, Minneapolis, Minn. Composition of matter for cleaning and polishing wood or metal. No. 1,317,171; Sept. 30; v. 266; p. 606.
- Magnuson, Gustaf, Denver, Colo. Ship construction. No. 1,319,480; Oct. 21; v. 267; p. 434.
- Magrath, Arthur C., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electric controlling-switch. No. 1,324,401; Dec. 9; v. 269; p. 267.
- Magrath, Lawrence D. (See Snyder and Magrath.)
- Maguire, Herbert R., Atherton, Queensland, Australia. Train-control system. No. 1,291,055; Jan. 14; v. 258; p. 275.
- Maha, Irvin J., Wichita Falls, Tex. Motor-starter. No. 1,290,620; Jan. 7; v. 258; p. 146.
- Mahan, James J., and J. J. Reilly, Jersey City, N. J. Trailer-truck. No. 1,310,028; July 15; v. 264; p. 438.
- Mahana, Charles G. (See Goff, Glidden, and Mahana.)
- Mahaney, Daniel M., New York, N. Y. Supplemental oiler for journals. No. 1,309,864; July 15; v. 264; p. 408.
- Maher, Charles P., and E. J. Fetherstonhaugh, Montreal, Quebec, Canada. Detachable heel. No. 1,313,400; Aug. 19; v. 265; p. 342.
- Maher, Edward J., Jersey City, N. J. Skirt-supporter. No. 1,304,340; May 20; v. 262; p. 413.
- Maher, James M., Fremont, Nebr. Propeller. No. 1,318,571; Oct. 14; v. 267; p. 235.



## Alphabetical list of patentees—Continued.

- Mabeu, Ulric. (See Roger, Alphee, assignor.)
- Mahon, Russell C., Highland Park, Mich. Base-support for uprights. No. 1,319,481; Oct. 21; v. 267; p. 434.
- Mahone, Edwin W., Marshall, Tex. Horse-collar. No. 1,316,170; Sept. 16; v. 266; p. 334.
- Mahoney, Jeremiah L., New Haven, Conn., assignor to The Goodyear's India Rubber Company. Apparatus for vulcanizing rubber articles. No. 1,295,087; Feb. 18; v. 259; p. 557.
- Mahoney, Jeremiah L., New Haven, Conn., assignor to The Goodyear's India Rubber Glove Manufacturing Company. Jointure for vulcanized rubber parts. No. 1,314,343; Aug. 26; v. 265; p. 555.
- Mahoney, Jeremiah L., New Haven, Conn., assignor to The Goodyear's India Rubber Glove Mfg. Co. Mold for vulcanizing rubber articles. No. 1,314,344; Aug. 26; v. 265; p. 556.
- Mahoney, Joseph N., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,305,142; May 27; v. 262; p. 603.
- Mahoney, Joseph N., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,323,300; Dec. 2; v. 269; p. 15.
- Mahoney, Joseph N., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,326,359; Dec. 30; v. 269; p. 748.
- Mahoney, Joseph N., and H. G. MacDonald, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,318,784; Oct. 14; v. 267; p. 375.
- Mahoney, Joseph P., Salt Lake City, Utah. Automobile-brake. No. 1,313,103; Aug. 12; v. 265; p. 270.
- Mahoney, Michael A. (See Curry, Arthur B., assignor.)
- Mahoney, Patrick A., Portland, Me. Regulating relief-faucet. No. 1,290,271; Jan. 7; v. 258; p. 63.
- Mahoney, Percy R., and W. R. Krueger, Portland, Ore. Sanding device for automobiles. No. 1,294,929; Feb. 18; v. 259; p. 522.
- Mahoney, Thomas. (See McCullough and Mahoney.)
- Mahony, William F., Washington, D. C. Safety appliance for elevators. No. 1,319,598; Oct. 21; v. 267; p. 456.
- Mahr, Julius A., Minneapolis, Minn. Accelerator-pedal. No. 1,320,561; Nov. 4; v. 268; p. 38.
- Maiden, Leamon A. (See Black and Maiden.)
- Maiden, Leamon A., Dunnellon, Fla. Dispensing-bottle. (Reissue.) No. 14,688; July 15; v. 264; p. 507.
- Maisner, Owen F. (See Negus and Maidment.)
- Maier, Charles G. (See Van Arsdale and Maier.)
- Maier, Harry L. (See Farrell and Maier.)
- Maier, John, Detroit, Mich. Well-drilling tool. No. 1,297,708; Mar. 18; v. 260; p. 484.
- Maier, John, St. Louis, Mo. Adjustable boring-tool. No. 1,324,459; Dec. 9; v. 269; p. 279.
- Maier, John J., et al. (See Forthmiller, Otto, assignor.)
- Maier, Karl F. G., South Ashburnham, Mass. Sanding-machine. No. 1,305,731; June 3; v. 263; p. 95.
- Maier, Karl F. G., South Ashburnham, and E. J. McKnight, assignors to L. G. McKnight & Son Company, Gardner, Mass. Sanding-machine. No. 1,305,916; June 3; v. 263; p. 129.
- Maier, William, St. Louis, Mo. Cutting-machine. No. 1,318,892; Oct. 14; v. 267; p. 297.
- Maillard, Louis P. H., New York, N. Y. Game. No. 1,323,372; Dec. 2; v. 269; p. 28.
- Mailoux, Harvey A., Haverhill, Mass. Time-controlled furnace-regulator. No. 1,317,172; Sept. 30; v. 266; p. 606.
- Maimin, Hyman, New York, N. Y., assignor to H. Maimin Co., Inc. Stripper-foot for cloth-cutting machines. No. 1,290,272; Jan. 7; v. 258; p. 63.
- Maimin, Hyman, New York, N. Y., assignor to H. Maimin Co., Inc. Fabric-cutting machine. No. 1,305,480; June 3; v. 263; p. 47.
- Maimin, Hyman, New York, N. Y., and W. J. Marshall, Newark, N. J., assignors to H. Maimin Co., Inc. Knife-drive for cloth-cutting machines. No. 1,292,625; Jan. 28; v. 258; p. 704.
- Maimin, Hyman, New York, N. Y., and W. J. Marshall, Newark, N. J., assignors to H. Maimin Co., Inc. Sharpening apparatus for cloth-cutting-machine knives. No. 1,303,936; May 20; v. 262; p. 338.
- Main, Daniel C., et al. (See Babcock, Irwin H., assignor.)
- Main, Emerson E., Indianapolis, Ind. Spark-plug. No. 1,305,660; June 3; v. 263; p. 82.
- Maine, Herman M. (See Maine, Norman C. and H. M.)
- Maine, Norman C. and H. M., Estherville, Iowa. Brace for stringed instruments. No. 1,317,089; Sept. 23; v. 266; p. 554.
- Mair, John T., Khandallah, near Wellington, New Zealand. Latch for gates and the like. No. 1,324,428; Dec. 9; v. 269; p. 272.
- Maire, Auguste, Argenteuil, assignor to Societe Lorraine des Anciens Etablissements De Dietrich & Cie. De Luneville, Paris, France. Drive for pumps. No. 1,308,435; July 1; v. 264; p. 78.
- Maire, Auguste, Argenteuil, France, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Construction of cylinders for light internal-combustion engines. No. 1,322,255; Nov. 18; v. 268; p. 472.
- Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville, Paris, France. Apparatus for lubricating internal-combustion engines. No. 1,322,919; Nov. 25; v. 268; p. 648.
- Maire, Frank L., et al. (See Grosjean, James E., assignor.)
- Maisch, Frederick D., deceased, Philadelphia, Pa.; M. F. Maisch, executrix. Maturing cotton-bolls. No. 1,317,983; Oct. 7; v. 267; p. 62.
- Maisch, Gustave F., Chicago, Ill. Compressor. No. 1,291,983; Jan. 21; v. 258; p. 527.
- Maisch, Gustave F., Chicago, Ill., assignor, by mesne assignments, to Todd Protectograph Company, Inc., Rochester, N. Y. Computing mechanism for check-writers. No. 1,311,526; July 29; v. 264; p. 779.
- Maisch, Millicent F., executrix. (See Maisch, Frederick D.)
- Maise, Herman C., assignor, by mesne assignments, to Finance & Trading Corporation of New York. Automobile-body. No. 1,309,144; July 8; v. 264; p. 238.
- Maisner, Louis. (See Mountford, Clarence B., assignor.)
- Maitland, John, Swampscott, Mass. Combination thread-stand. No. 1,324,839; Dec. 16; v. 269; p. 412.
- Maitre, Alcide H., and V. H. G. Martin, Rouen, France. Electrically-operated musical instrument. No. 1,295,548; Feb. 25; v. 259; p. 688.
- Maitre, Alcide H., and V. H. G. Martin, Rouen, France. Electromagnetically-operated musical instrument. No. 1,323,198; Nov. 25; v. 268; p. 701.
- Majestic Company, The. (See Triggs and Redrup, assignors.)
- Majestic Electric Development Company. (See Shoenberg and Talcott, assignors.)
- Majewski, Stanislaw. (See Cholewski and Majewski.)
- Majima, Teijiro, Hyogo-Ken, Japan. Cell-plate. No. 1,307,407; June 24; v. 263; p. 502.
- Majkowski, Frank, assignor of one-half to W. Pijakowski, Chicago, Ill. Railway-tie and rail-fastening means. No. 1,319,405; Oct. 21; v. 267; p. 420.
- Major, R. N. (See Erwin, Mercer, assignor.)
- Majorana, Peppino, Louisville, Ky. Rail-joint. No. 1,293,496; Feb. 4; v. 259; p. 121.
- Majors, James M., Ottumwa, Iowa. Thread-cutter and spool-holder. No. 1,295,549; Feb. 25; v. 259; p. 688.
- Makaroff, Wadim, Washington, D. C. Apparatus for training range-finder operators. No. 1,297,967; Mar. 18; v. 260; p. 540.
- Makela, Toivo. (See Lindstrom and Makela.)
- Maker, Ralph K., Providence, R. I., assignor to Goldsmith & Harzberg. Collar-clasp. No. 1,322,805; Nov. 25; v. 268; p. 626.
- Makins, William B. (See Burdick and Makins.)
- Makos, Michal, Chicago, Ill. Hay-drying device. No. 1,322,256; Nov. 18; v. 268; p. 472.
- Makutchan, William H., Chicago, Ill. Spark-plug. No. 1,293,845; Feb. 11; v. 259; p. 233.
- Malaby, Ira B., assignor to N. Mellor, Philadelphia, Pa. Wall-anchor. No. 1,293,844; Feb. 11; v. 259; p. 233.
- Malbon, Philip J., Jr., Norfolk, Va. Post-hole digger. No. 1,322,920; Nov. 25; v. 268; p. 648.
- Malburg, Raymond S., Los Angeles, Calif. Door-open signal for all vehicles. No. 1,299,979; Apr. 8; v. 261; p. 337.
- Malcher, Otto. (See Malcher Adding Machine Company, assignor.)
- Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Calculating-machine. No. 1,318,395; Oct. 14; v. 267; p. 201.
- Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Calculating-machine. No. 1,318,396; Oct. 14; v. 267; p. 202.
- Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Calculating-machine. No. 1,318,397; Oct. 14; v. 267; p. 202.
- Malcher, Otto, assignor to Malcher Adding Machine Company, Chicago, Ill. Printing mechanism for calculating-machines. No. 1,318,398; Oct. 14; v. 267; p. 202.
- Malchow, Albert, Phoenix, Ariz. Wrench. No. 1,299,591; Apr. 8; v. 261; p. 250.
- Malcolm, James F., Elmhurst, N. Y. Production-clock. No. 1,324,916; Dec. 16; v. 269; p. 426.
- Malcolmsen, William J., Cicero, and H. L. Ward, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Roasting apparatus. No. 1,302,946; May 6; v. 262; p. 88.
- Malcom, John, Elrod, S. D. Grain-harvester. No. 1,301,289; Apr. 22; v. 261; p. 678.
- Malcom, Robert. (See Brennecke, Herman J., assignor.) (Reissue.)
- Malcom, Robert, Chicago, Ill. Goggles. No. 1,306,549; June 10; v. 263; p. 279.
- Malcom, Robert, Chicago, Ill. Helmet. No. 1,306,550; June 10; v. 263; p. 279.
- Malcomb, Clyde C., Rivesville, W. Va. Lath-mill bolter. No. 1,299,752; Apr. 8; v. 261; p. 287.
- Malde, Emil, Portland, Ore. Valve. No. 1,307,915; June 24; v. 263; p. 594.
- Malen, Victor, Olney, Ore. Jack-screw. No. 1,325,484; Dec. 16; v. 269; p. 531.
- Malenscheck, John, West Allis, Wis. Weighing apparatus for portable vehicles. No. 1,322,710; Nov. 25; v. 268; p. 609.



- Males, Herbert, *et al.* (See Northall, William H., assignor.)
- Malhoit, Joseph H., West Haven, and A. O. Poirier, New Haven, Conn. Timing device for explosive-engines. No. 1,297,212; Mar. 11; v. 260; p. 349.
- Malicki, Joseph, Cicero, assignor to Templeton, Kenly & Company, Limited, Chicago, Ill. Jack. No. 1,325,951; Dec. 23; v. 269; p. 635.
- Malinite Company, The. (See Malinovzsky, Andrew, assignor.)
- Malinovzsky, Andrew, Belleville, Ill., assignor to The Malinite Company, Wilmington, Del. Brick-machine. No. 1,310,953; July 22; v. 264; p. 638.
- Malinowsky, Adolf, Throop, Pa. Coal-mining chute. No. 1,306,704; June 17; v. 263; p. 341.
- Malkevic, John, Amsterdam, N. Y. Picture-frame. No. 1,296,544; Mar. 4; v. 260; p. 163.
- Malleable Iron Fittings Company, The. (See Pickop, George B., assignor.)
- Mallet, John P. (See Knox and Mallet.)
- Mallette, E. Michael. (See Addison, Simon L., assignor.)
- Mallinckrodt, John F., Salt Lake City, Utah. Pan-filling machine. No. 1,312,640; Aug. 12; v. 265; p. 180.
- Mallon, Edward A. (See Mallon, Thomas M., assignor.)
- Mallon, Thomas M., Philadelphia, Pa., assignor of one-half to E. A. Mallon, Brooklyn, N. Y. Packing for piston-rods or other fluid-engines. No. 1,303,490; May 13; v. 262; p. 218.
- Mallory, Elwyn A., Milwaukee, Wis. Bag-fastener; No. 1,318,893; Oct. 14; v. 269; p. 297.
- Mallory, George P., Philadelphia, assignor of one-half to H. E. Muth, East Lansdowne, Pa. Internal-combustion engine. No. 1,315,230; Sept. 9; v. 266; p. 148.
- Mallory, Marion, Wichita, Kans. Spark-plug. No. 1,304,341; May 20; v. 262; p. 413.
- Mallow, Edward T., Hamilton, Ohio. Caster. No. 1,310,029; July 15; v. 264; p. 438.
- Malmberg, Anders M., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone trunking system. No. 1,326,680; Dec. 30; v. 269; p. 809.
- Malocsay, Frank, New York, N. Y., assignor to Sonora Phonograph Corporation, Container for talking-machine records. No. 1,321,222; Nov. 11; v. 268; p. 226.
- Malone, Gus, Covina, Calif. Tractor. No. 1,305,481; June 3; v. 263; p. 47.
- Malone, James A., Grayson, Ky. Amalgamator. No. 1,317,984; Oct. 7; v. 267; p. 62.
- Malone, John F. J., assignor to The Sentinel Company, Limited, Newcastle-upon-Tyne, England. Distance-thermometer. No. 1,298,075; Mar. 25; v. 260; p. 587.
- Malone, John J., New Haven, Conn. Door-latch. No. 1,302,063; Apr. 29; v. 261; p. 887.
- Malone, John L., Whistler, Ala. Hydraulic jack. No. 1,292,498; Jan. 28; v. 258; p. 671.
- Malone, Leon S., Rochester, Pa., assignor of one-half to N. H. H. De Ford, Baltimore, Md., and one-half to E. H. Finney, Evanston, Ill. Toy animal. No. 1,324,057; Dec. 9; v. 269; p. 201.
- Malone, Levi D., and H. E. Hubbs, assignors to The Shelby Spring Hinge Company, Shelby, Ohio. Chain-bolt. No. 1,306,886; June 10; v. 263; p. 250.
- Maloney, Edward J., Long Island City, assignor to A. Wolf, New York, N. Y. Forming stitches. No. 1,308,294; July 1; v. 264; p. 53.
- Maloney, Jackson. (See Moore, William J., assignor.)
- Maloney, Michael F., *et al.* (See Leonard, Maloney, and Fandrich.)
- Maloney, Robert J., Holyoke, Mass. Combined extractor for closures for bottles, &c., and stoppers. No. 1,296,545; Mar. 4; v. 260; p. 163.
- Maloney, Thomas J., Jersey City, N. J., assignor to P. Lorillard Company, New York, N. Y. Packaging of tobacco products. No. 1,291,984; Jan. 21; v. 258; p. 527.
- Maloney, William T. (See Eberhard, Maloney, and Bold.)
- Malsch, Carlos M., and C. H. Gilson, assignors to Sociedad Metalurgica Chilena Cuprum, Valparaiso, Chile. Metallurgical process. No. 1,303,701; May 13; v. 262; p. 256.
- Malsin, Albert, assignor to Lane Bryant, Inc., New York, N. Y. Lady's garment. No. 1,293,152; Feb. 4; v. 259; p. 41.
- Malsin, Albert, assignor to Lane Bryant, Inc., New York, N. Y. Lady's garment. No. 1,303,092; May 6; v. 262; p. 117.
- Malthaner, John F., Atlanta, Ga. Recording-telephone. No. 1,290,621; Jan. 7; v. 258; p. 147.
- Malthaner, John F., Atlanta, Ga. Combined telephone and phonograph. No. 1,323,710; Dec. 2; v. 269; p. 91.
- Maly, Joseph, New York, N. Y. Pressure-relieving device for vessels. No. 1,320,020; Oct. 28; v. 267; p. 559.
- Mammbourg Continuous Iron and Steel Furnace Co., The. (See Mammbourg, Leopold, assignor.)
- Mammbourg, Leopold, assignor to The Mammbourg Continuous Iron and Steel Furnace Co., Lancaster, Ohio. Smelting and refining ore. No. 1,313,309; Aug. 19; v. 265; p. 326.
- Man, Edward H., New Orleans, La. Cleaning sugar-making apparatus. No. 1,326,280; Dec. 30; v. 269; p. 734.
- Manahan, Thomas, New York, N. Y. Garment-bag. No. 1,319,522; Oct. 21; v. 267; p. 443.
- Manahan, William H., Arrowsmith, Ill. Oil-barrel support. No. 1,326,077; Dec. 23; v. 269; p. 659.
- Manbert, Barton. (See Avery and Manbert.)
- Mancha, Raymond, assignor to Mancha Storage Battery Locomotive Company, St. Louis, Mo. Storage-battery locomotive. No. 1,291,581; Jan. 14; v. 258; p. 396.
- Mancha, Raymond, and J. Teipel, assignors to Mancha Storage Battery Locomotive Company, St. Louis, Mo. Storage-battery locomotive. No. 1,306,671; June 10; v. 263; p. 302.
- Mancha Storage Battery Locomotive Company. (See Mancha, Raymond, assignor.)
- Mancha Storage Battery Locomotive Company. (See Mancha and Teipel, assignors.)
- Manchester Oxide Company, The. (See Clayton, Huebner, and Williams, assignors.)
- Mandabach, Nicholas, Vincennes, Ind. Mining-car coupling. No. 1,298,238; Mar. 25; v. 260; p. 623.
- Mandel Corporation, The. (See Bell, Raymond T., assignor.)
- Mandel Corporation, The. (See Schwartz and Mandel, assignors.)
- Mandel, Harry H. (See Patus, Alexander, assignor.)
- Mandel, Louis. (See Schwartz and Mandel.)
- Mandelbaum, Henry, Brooklyn, N. Y. Feed-bag. No. 1,300,985; Apr. 15; v. 261; p. 578.
- Mandelstamm, Leo, New York, N. Y. Metal-casting machine. No. 1,309,534; July 8; v. 264; p. 310.
- Manderfield, Robert J., Hancock, Mich. Wood sandal. No. 1,310,358; July 15; v. 264; p. 498.
- Manderscheid, Thomas R., Terrebonne, Ore. Stone-gatherer. No. 1,298,239; Mar. 25; v. 260; p. 623.
- Mandleberg, Joseph H., Pendleton, Manchester, England. Impregnation of fabrics for balloons and the like. No. 1,302,064; Apr. 29; v. 261; p. 857.
- Mandleberg, Joseph H., Pendleton, Manchester, England. Composition for impregnating and coating balloon and like fabrics. No. 1,302,065; Apr. 29; v. 261; p. 857.
- Mandzuk, Peter J., St. Catharines, Ontario, Canada. Combination cigar-cutter and match-server. No. 1,293,153; Feb. 4; v. 259; p. 41.
- Manegold, Robert A., and G. H. Fobian, assignors to Dings Magnetic Separator Company, Milwaukee, Wis. Magnetic separator. No. 1,310,802; July 22; v. 264; p. 612.
- Mangan, James H., New Hampton, Iowa. Railway-crossing signal. No. 1,307,916; June 24; v. 263; p. 594.
- Mangels, W. T., Brooklyn, N. Y. Amusement apparatus. No. 1,296,417; Mar. 4; v. 260; p. 135.
- Mangels, William F., Brooklyn, N. Y. Machine-gun for shooting-galleries. No. 1,303,702; May 13; v. 262; p. 256.
- Mangels, William F., Brooklyn, N. Y. Slip-crank. No. 1,306,603; June 10; v. 263; p. 289.
- Mangels, William F., Brooklyn, N. Y. Gun-mount. No. 1,321,657; Nov. 11; v. 268; p. 309.
- Mangelsdorff, Max F., Union Hill, assignor to H. Bentz, Montclair, N. J. Apparatus for dehydrating. No. 1,299,492; Apr. 8; v. 261; p. 228.
- Mangelsdorff, Max F., Union Hill, assignor to H. Bentz, Montclair, N. J. Process of and apparatus for preparing potatoes for dehydration. No. 1,299,493; Apr. 8; v. 261; p. 228.
- Mangers, Henry J., Peoria, Ill. Artificial hand. No. 1,321,065; Nov. 4; v. 268; p. 133.
- Mangini, Andrew, Warren, Pa., assignor of one-half to B. V. Barber. Letter-opener. No. 1,302,398; Apr. 29; v. 261; p. 920.
- Mangnall, Nathan. (See Cryer and Mangnall.)
- Manhattan Electrical Supply Company. (See Schwartz, Edward, assignor.)
- Manhire, William J., assignor to Combustion Specialty Co., Kansas City, Mo. Boiler-furnace. No. 1,293,845; Feb. 11; v. 259; p. 234.
- Manierre, George, Milwaukee, Wis. Loading-machine. No. 1,321,531; Nov. 11; v. 268; p. 285.
- Manischewitz, Jacob U., assignor to The B. Manischewitz Company, Cincinnati, Ohio. Weighing and carton-filling device. No. 1,306,187; June 10; v. 263; p. 210.
- Manley, Charles E., Maricopa, Cal. Washboard. No. 1,293,613; Feb. 4; v. 259; p. 148.
- Manley, Homer F., Rochester, N. Y. Automobile. No. 1,303,350; May 13; v. 262; p. 192.
- Manley, James P., Anderson, Ind. Railway-tie. No. 1,299,202; Apr. 1; v. 261; p. 133.
- Manley, Robert E., York, Pa. Press. No. 1,291,582; Jan. 14; v. 258; p. 396.
- Manly, Charles M., Freeport, N. Y. Power-driven adjusting mechanism. No. 1,296,303; Mar. 4; v. 260; p. 111.
- Manly, Charles M., Freeport, N. Y. Control apparatus for power-driven mechanism. No. 1,308,550; July 1; v. 264; p. 99.
- Manly, Charles M., New York, N. Y. Variable-speed-transmitting mechanism. No. 1,317,719; Oct. 7; v. 267; p. 11.
- Manly, Charles M., New York, N. Y. Motor-controlling device. No. 1,318,399; Oct. 14; v. 267; p. 202.
- Manly, Charles M., Freeport, N. Y. Motor-vehicle. No. 1,323,890; Dec. 2; v. 269; p. 125.
- Mann, Arthur S., Schenectady, N. Y., assignor to General Electric Company. Draft-regulator for boiler-furnaces. No. 1,295,550; Feb. 25; v. 259; p. 688.



## Alphabetical list of patentees—Continued.

- Mann, Arthur S., deceased, Schenectady, N. Y., E. D. Mann, administratrix, assignor to General Electric Company. Apparatus for burning powdered fuel. No. 1,298,530; Mar. 25; v. 260; p. 686.
- Mann Corporation. (See Yeomans, Lucien I., assignor.)
- Mann, Eleanor D., administratrix. (See Mann, Arthur S.)
- Mann, G. Burwell. (See Hay, Glen W., assignor.)
- Mann, Harry, Randolph county, assignor of one-half to The Storms Novelty Company, Winchester, Ind. Hog-feeder. No. 1,316,910; Sept. 23; v. 266; p. 521.
- Mann, Horace, Old Albuquerque, N. Mex. Brooder. No. 1,308,717; July 1; v. 264; p. 130.
- Mann, Ira A., deceased; M. P. Mann, executrix, Pittsburgh, Pa. Pipe construction. No. 1,309,145; July 8; v. 264; p. 238.
- Mann, Ira A., deceased; M. P. Mann., executrix, Pittsburgh, Pa. Pipe-joint. No. 1,309,146; July 8; v. 264; p. 239.
- Mann, Marion P., executrix. (See Mann, Ira A.)
- Mann, Miles H., Reading, Pa. Pay-roll accounting and paying machine. No. 1,311,174; July 29; v. 264; p. 713.
- Mann, Miles H., assignor to International Money Machine Company, Terre Haute, Ind. Registering-machine. No. 1,311,173; July 29; v. 264; p. 713.
- Mann, Miles H., and A. H. Hawley, assignors, by mesne assignments, to International Money Machine Company, Terre Haute, Ind. Calculating and money-paying machine. No. 1,298,751; Apr. 1; v. 261; p. 31.
- Mann, Orville C., Oak Park, Ill. Ventilator. No. 1,293,497; Feb. 4; v. 259; p. 121.
- Mann, Orville C., Oak Park, Ill. Spreader. No. 1,295,551; Feb. 25; v. 259; p. 688.
- Mann, Orville C., Oak Park, Ill. Combined excavator and spreader. No. 1,295,552; Feb. 25; v. 259; p. 689.
- Mann, Orville C., Oak Park, Ill. Ventilator. No. 1,313,401; Aug. 19; v. 265; p. 342.
- Mann, Oscar F., Indianapolis, Ind. Mortar-gaging trowel. No. 1,321,532; Nov. 11; v. 268; p. 285.
- Mann, William D., Chicago, Ill. Building construction. No. 1,318,330; Oct. 7; v. 267; p. 128.
- Mann, William L., U. S. Navy. Means for sterilizing drinking-cups and the like. No. 1,290,767; Jan. 7; v. 258; p. 182.
- Mannell, Charles J., and R. Rose, Bournemouth, England. Machinery employed in the manufacture of concrete and the like wall-blocks. No. 1,310,359; July 15; v. 264; p. 498.
- Manneson, Marcel, assignor to M. Goudard & Mennesson, Neuilly-sur-Seine, France. Motor-vehicle. No. 1,308,602; July 1; v. 264; p. 109.
- Manning, Charles E., Philadelphia, Pa. Meteorological instrument. No. 1,319,599; Oct. 21; v. 267; p. 457.
- Manning, Elmer J., Janesville, Wis. Carbureter. No. 1,310,426; July 22; v. 264; p. 542.
- Manning, Ferdinand, Geneseo, Kans. Plow. No. 1,301,724; Apr. 22; v. 261; p. 761.
- Manning, Frank, Philadelphia, Pa., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,298,752; Apr. 1; v. 261; p. 31.
- Manning, Fred A. (See Frazee, Frank D., assignor.)
- Manning, Frederick W. (See Sweetland, Manning, and Hilpert.)
- Manning J. Smith Belting Company. (See Cuthbert, George, assignor.)
- Manning, James F., Wausau, Wis. Pitchfork. No. 1,292,344; Jan. 21; v. 258; p. 614.
- Manning, Rodney W., Riverside, R. I. Valve or tappet adjusting device. No. 1,294,134; Feb. 11; v. 259; p. 302.
- Manning, William W., Mountainair, N. Mex. Pipe-handling means. No. 1,307,505; June 24; v. 263; p. 520.
- Mannon, Homer, H. M. Brown, and R. G. Perkins, Huntington, W. Va. Mechanical articulator and grinder. No. 1,324,429; Dec. 9; v. 269; p. 273.
- Manns, Thomas F., Newark, Del. Reinforcing, bacterizing, and composting organic material for use as inoculators, improvers, and fertilizer of soils. No. 1,320,701; Nov. 4; v. 268; p. 64.
- Manns, William H., assignor to Frick Company, Waynesboro, Pa. Apparatus for and method of filling cans. No. 1,303,093; May 6; v. 262; p. 117.
- Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Account-tray. No. 1,325,525; Dec. 23; v. 269; p. 557.
- Mansbendel, Fritz P. (See Nehrke, Charles, assignor.)
- Mansbendel, Fritz P., Brooklyn, assignor to Vibromotor Specialties Co., Inc., New York, N. Y. Motor device. No. 1,321,533; Nov. 11; v. 268; p. 285.
- Manseau, John A., Beancourt, Quebec, Canada. Caterpillar-catcher. No. 1,311,001; July 22; v. 264; p. 647.
- Mansell, John H., assignor to The Coventry Ordnance Works, Limited, Coventry, England. Fuse for projectiles. No. 1,298,076; Mar. 25; v. 260; p. 588.
- Manser, Edward J., Nobel, Ontario, Canada. Acid-still. No. 1,320,080; Oct. 28; v. 267; p. 570.
- Mansfield Electric Hardware Manufacturing Company, The. (See Keller, Claude A., assignor.)
- Mansfield, Frederick J., Pasadena, Calif. Literature-distributing device. No. 1,309,040; July 8; v. 264; p. 219.
- Mansfield, Harry R., Racine, Wis., assignor to Racine Handy Manufacturing Company, Robe-lock. No. 1,300,986; Apr. 15; v. 261; p. 578.
- Mansfield, James F., Long Island City, N. Y. Watch-carrier. No. 1,302,066; Apr. 29; v. 261; p. 857.
- Mansfield, William, Ashville, Pa. Window-screen. No. 1,322,593; Nov. 25; v. 268; p. 587.
- Manson, Donald M., Hamilton, Ontario, Canada. Phonograph. No. 1,291,985; Jan. 21; v. 258; p. 527.
- Manson, Ray H., Rochester, N. Y., assignor to Garford Manufacturing Company, Elyria, Ohio. Circuit-controller. No. 1,295,912; Mar. 4; v. 260; p. 21.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Push-button switch. No. 1,295,913; Mar. 4; v. 260; p. 21.
- Manson, Ray H., Rochester, N. Y., assignor to The Garford Manufacturing Company, Elyria, Ohio. Circuit-controller. No. 1,295,914; Mar. 4; v. 260; p. 21.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Phonograph locking or braking device. No. 1,309,741; July 15; v. 264; p. 387.
- Manson, Ray H., assignor to The Garford Manufacturing Company, Elyria, Ohio. Warning-signal. No. 1,318,572; Oct. 14; v. 267; p. 235.
- Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Hook-switch and circuits therefor. No. 1,303,351; May 13; v. 262; p. 192.
- Mante, Ferdinand, St. Louis, Mo. Camp-table. No. 1,323,080; Nov. 25; v. 268; p. 678.
- Mantell, Frank, Connelville, Pa. Machine for making ice-cream cones. No. 1,319,406; Oct. 21; v. 267; p. 420.
- Manthey, August E., and O. C. Thiel, Milwaukee, Wis. Vending apparatus. No. 1,318,217; Oct. 7; v. 267; p. 107.
- Manthey, Henry, assignor to The "New-Way" Motor Company, Lansing, Mich. Charge-forming device for internal-combustion engines. No. 1,303,703; May 13; v. 262; p. 257.
- Mantle & Company. (See Mantle, Joseph G. C., assignor.)
- Mantle, David L., McAlester, Okla. Invisible pin. No. 1,321,534; Nov. 11; v. 268; p. 285.
- Mantle, Joseph G. C., New York, N. Y., assignor to Stern-Coleman Diamond Machine Co., Inc. Polishing-machine. No. 1,313,402; Aug. 19; v. 265; p. 343.
- Mantle, Joseph G. C., assignor to Mantle & Company, New York, N. Y. Variable-speed-transmission mechanism. No. 1,319,160; Oct. 21; v. 267; p. 374.
- Mantle Lamp Company of America, The. (See Davis, Cortland W., assignor.)
- Mantle Lamp Company of America, The. (See Gregor and French, assignors.)
- Mantle Lamp Company of America, The. (See Simonson and Blair, assignors.)
- Manton, Edwin W., assignor to C. J. Waters, Port Broughton, South Australia, Australia. Machine for rabbeting and recessing and chamfering square or angular corners. No. 1,298,531; Mar. 25; v. 260; p. 686.
- Manton, James S., Chicago, Ill. Clutch-controller. No. 1,310,199; July 15; v. 264; p. 469.
- Manufacturers Iron & Steel Company. (See Whitaker, Richard, Jr., assignor.)
- Manufacturing Equipment & Engineering Company. (See Leland, Sanford D., assignor.)
- Manville, Loren R. (See Hohner and Manville.)
- Manville, Oscar R., Breckenridge, Mo. Shovel-board. No. 1,314,684; Sept. 2; v. 266; p. 40.
- Manwaring, Leverett A., Middletown, Conn. Toy construction. No. 1,298,240; Mar. 25; v. 260; p. 623.
- Manzel, Adolph W. F., assignor to Manzel Brothers Company, Buffalo, N. Y. Force-feed lubricator. No. 1,323,603; Dec. 2; v. 269; p. 71.
- Manzel Brothers Company. (See Manzel, Adolph W. F., assignor.)
- Mao, Thomson, Swissvale, Pa. Table article. No. 1,316,314; Sept. 16; v. 266; p. 361.
- Mapel, Lewis A., assignor to Mapel Manufacturing Company, St. Louis, Mo. Valve. No. 1,291,986; Jan. 21; v. 258; p. 527.
- Mapel, Lewis A., assignor to Mapel Manufacturing Company, St. Louis, Mo. Valve mechanism. No. 1,291,987; Jan. 21; v. 258; p. 527.
- Mapel Manufacturing Company. (See Mapel, Lewis A., assignor.)
- Mapelsden, Harold H., Schenectady, N. Y., assignor to General Electric Company. Flow-meter. No. 1,291,056; Jan. 14; v. 258; p. 275.
- Mapelsden, Harold H., Schenectady, N. Y., assignor to General Electric Company. Pressure-difference-creating device for flow-meters and the like. No. 1,298,532; Mar. 25; v. 260; p. 687.
- Mapes, James L., near Jersey Shore, Pa. Tractor. No. 1,318,804; Oct. 14; v. 267; p. 297.
- Mapes, Stephen S., et al., executors. (See Blickenderfer, George C.)
- Mapson, Arthur L., Granada, Minn. Lubricator. No. 1,294,292; Feb. 11; v. 259; p. 338.
- Mapson, Arthur L., Granada, Minn. Radiator-protector. No. 1,310,870; July 22; v. 264; p. 624.
- Maranda, Albert H., Pittsburgh, Pa. Electric-lighting assembly. No. 1,310,763; July 22; v. 264; p. 604.
- Maranbas, Ildefonso L. (See Barrile and Maranbas.)
- Marano, Antonio, et al. (See Evangelista, Domenico, assignor.)



- Maranville, Harvey F., Akron, Ohio. Nest. No. 1,320,774; Nov. 4; v. 268; p. 78.
- Maranville, Harvey F., Akron, Ohio. Ventilator. No. 1,322,711; Nov. 25; v. 268; p. 609.
- Marathon Company. (See Fisher, George L., assignor.)
- Marathon Electric Manufacturing Co. (See Kimble, Austin, assignor.)
- Marbach, Frank G., assignor to W. Trostler, Cleveland, Ohio. Screw-clamp. No. 1,319,717; Oct. 28; v. 267; p. 501.
- Marble, Edwin H., assignor to Curtis & Marble Machine Company, Worcester, Mass. Cloth-folding machine. No. 1,311,080; July 22; v. 264; p. 662.
- Marble, Oscar D., Waterloo, Iowa. Adjustable brush-grip. No. 1,294,135; Feb. 11; v. 259; p. 302.
- Marceau, Joseph E., Fairbury, Ill. Steering-gear. No. 1,305,297; June 3; v. 263; p. 13.
- Marceau, Joseph E., Fairbury, Ill. Steering-gear. No. 1,305,298; June 3; v. 263; p. 13.
- Marcel, François R., Brooklyn, N. Y. Hair-waving device. No. 1,290,622; Jan. 7; v. 258; p. 147.
- Marchant Calculating Machine Company. (See Dennis, Adolphus S., assignor.)
- Marche, Henri, Fourmies, France. Manufacturing pile or imitation fur. No. 1,314,529; Sept. 2; v. 266; p. 10.
- Marchese, Antonietta. (See Marchese, Concettina and A.)
- Marchese, Concettina and A., Brooklyn, N. Y. Inserting openwork in fabrics. No. 1,313,198; Aug. 12; v. 265; p. 288.
- Marchlenski, John, Wheeling, W. Va. Shelving-rack. No. 1,303,094; May 6; v. 262; p. 117.
- Marchner, Joseph A., Atlantic City, N. J. Lifting-jack. No. 1,324,058; Dec. 9; v. 269; p. 201.
- Marclniak, Stanislaw, Buffalo, N. Y. Stone-raking machine. No. 1,294,818; Feb. 18; v. 259; p. 496.
- Marcinkiewicz, Casimir, Detroit, Mich. Box or crate. No. 1,297,885; Mar. 18; v. 260; p. 522.
- Marinko, Andrew, Joliet, Ill. Artificial limb. No. 1,299,980; Apr. 8; v. 261; p. 337.
- Marconi, Guglielmo, and C. S. Franklin, London, England, assignors to Marconi Wireless Telegraph Company of America, New York, N. Y. Reflector for use in wireless telegraphy and telephony. No. 1,301,473; Apr. 22; v. 261; p. 713.
- Marconi Wireless Company of America. (See Butcher, Elmer E., assignor.)
- Marconi Wireless Telegraph Company of America. (See Clark, George H., assignor.)
- Marconi Wireless Telegraph Company of America. (See Ewen, Harry A., assignor.)
- Marconi Wireless Telegraph Company of America. (See Franklin, Charles S., assignor.)
- Marconi Wireless Telegraph Company of America. (See Marconi and Franklin, assignors.)
- Marconi Wireless Telegraph Company of America. (See Pletts, John S., assignor.)
- Marconi Wireless Telegraph Company of America. (See Weagant, Roy A., assignor.)
- Marconi Wireless Telegraph Company of America. (See Weagant and Shoemaker, assignors.)
- Marcott, Demoss D., Colbert, Wash. Wood-sawing device. No. 1,309,901; July 15; v. 264; p. 415.
- Marcotte, Barlow. (See Valley and Marcotte.)
- Marcoux, Alexander J., and R. G. Bray, Sherbrooke, Quebec, Canada. Ventilator. No. 1,306,966; June 17; v. 263; p. 388.
- Marcovitz, Samuel, Buffalo, N. Y. Deodorizing attachment to electric fans. No. 1,321,535; Nov. 11; v. 268; p. 286.
- Marcovsky, Frank, Duquesne, Pa. Life-preserver. No. 1,302,823; May 6; v. 262; p. 65.
- Marcuccilli, Dominico. (See Salchli, John F., assignor.)
- Marcus, Henry D., Passaic, N. J. Combination tea and coffee percolator. No. 1,294,505; Feb. 18; v. 259; p. 423.
- Marcus, Henry D., Passaic, N. J. Percolator. No. 1,307,745; June 24; v. 263; p. 563.
- Marcus, Jacob. (See Lombardi and Marcus.)
- Marcus, Jacob, and J. F. Bergen, Brooklyn, N. Y. Trouser-waistband. No. 1,321,536; Nov. 11; v. 268; p. 286.
- Marcuse, Moses M., assignor to West Disinfecting Company, New York, N. Y. Sanitary closet. No. 1,297,709; Mar. 18; v. 260; p. 484.
- Marcuse, Moses M., assignor to West Disinfecting Company, New York, N. Y. Sanitary closet. No. 1,297,710; Mar. 18; v. 260; p. 485.
- Marcy, Frank E., Salt Lake City, Utah. Mechanical classifier. No. 1,306,188; June 10; v. 263; p. 210.
- Marcy, Frank E., Salt Lake City, Utah. Roller-mill. No. 1,309,210; July 8; v. 264; p. 250.
- Marcy, Frank E., Salt Lake City, Utah. Roller-mill. No. 1,309,211; July 8; v. 264; p. 250.
- Marcy, Frank E., Salt Lake City, Utah. Roller-mill. No. 1,309,212; July 8; v. 264; p. 250.
- Marcy, Frank E., Salt Lake City, Utah. Mechanical classifier. No. 1,316,911; Sept. 23; v. 266; p. 521.
- Marcy, Richard. (See Nevens and Marcy.)
- Marcy, Willard A., Newton Upper Falls, assignor to The Lamson Company, Boston, Mass. Tray-conveying apparatus. No. 1,300,987; Apr. 15; v. 261; p. 570.
- Marden, Basil J. N., Stodham Park, England. Astronomical route-finder. No. 1,325,877; Dec. 23; v. 269; p. 622.
- Marden, Francis S. (See Kranich, Victor, assignor.)
- Mardick, John R., New York, N. Y. Manufacturing aluminum chloride. No. 1,325,203; Dec. 16; v. 269; p. 480.
- Mardis, Paul L., Altoona, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus and system. No. 1,295,915; Mar. 4; v. 260; p. 21.
- Mardis, Paul L., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. No. 1,314,530; Sept. 2; v. 266; p. 10.
- Mardis, Paul L., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,323,301; Dec. 2; v. 269; p. 15.
- Mardis, Paul L., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,324,840; Dec. 16; v. 269; p. 412.
- Mardis, Paul L., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,326,360; Dec. 30; v. 269; p. 748.
- Mardis, Paul L., Altoona, and A. H. Candee, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. No. 1,291,583; Jan. 14; v. 258; p. 397.
- Mardis, Paul L., and A. J. Hall, Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,308,089; July 1; v. 264; p. 15.
- Marelli, Ercole, Milan, Italy. Oscillating support for fans and the like. No. 1,291,988; Jan. 21; v. 258; p. 528.
- Maremont Manufacturing Company, The. (See Wegner, William F., assignor.)
- Marette, Jacques, Vincennes, assignor to Compagnie Generale Des Etablissements Pathe Freres, Phonographe Et Cinematographie, Paris, France. Machine for developing and fixing cinematographic films. No. 1,325,748; Dec. 23; v. 269; p. 597.
- Marggraf, Arthur, et al. (See Olsen, Edwin O., assignor.)
- Marggraf, Frederick, et al. (See Olsen, Edwin O., assignor.)
- Marggraf, Harvey, et al. (See Olsen, Edwin O., assignor.)
- Margo, John, assignor of one-half to M. Hudak, Chisholm, Minn. Trap. No. 1,294,293; Feb. 11; v. 259; p. 338.
- Margolin, George. (See Mosler and Margolin.)
- Margolinsky, David, Columbus, Ohio. Spark-plug. No. 1,316,053; Sept. 16; v. 266; p. 312.
- Marianych, John, Lanuka, Alberta, Canada. Combined table and bed. No. 1,305,661; June 3; v. 263; p. 82.
- Marin, Alexandre J., Stockholm, Sweden. Explosive. No. 1,293,154; Feb. 4; v. 259; p. 42.
- Marin, Alexandre J., Stockholm, Sweden. Explosive. No. 1,297,213; Mar. 11; v. 260; p. 350.
- Marin, Alexandre J., Paris, France. Preparation of an oxygen-carrying salt suitable for the manufacture of explosives, and making these explosives. No. 1,320,160; Oct. 28; v. 267; p. 555.
- Marine Decking & Supply Co. (See Hills, Harry B., assignor.)
- Marine Safety Appliance Corporation. (See Schneider, William, assignor.)
- Marinier, Gilbert P., Pontiac, Mich. Mechanism for transmitting motion. No. 1,320,257; Oct. 28; v. 267; p. 603.
- Marino, Carmine, et al. (See Marino, Pasquale, assignor.)
- Marino, Dominico, et al. (See Marino, Pasquale, assignor.)
- Marino, Pasquale, assignor of one-third to C. Marino, Brooklyn, N. Y., and one-third to D. Marino, West Hoboken, N. J. Pneumatic tire. No. 1,293,498; Feb. 4; v. 259; p. 122.
- Marino, Quintin, Hendon, England. Electrolytic cleaning of iron and steel. No. 1,324,317; Dec. 9; v. 269; p. 251.
- Marinsky, Davis, New York, N. Y. Garment-fastening device. No. 1,301,725; Apr. 22; v. 261; p. 761.
- Marinsky, Davis, New York, N. Y. Sealing-machine. No. 1,309,147; July 8; v. 264; p. 239.
- Marion, Alain V. F., Paris, France. Magnetic compass. No. 1,304,789; May 27; v. 262; p. 537.
- Marion, Charles E., Franklin, N. H. Steam-trap. No. 1,316,171; Sept. 16; v. 266; p. 334.
- Marion Steam Shovel Company, The. (See King and Young, assignors.)
- Marion Steam Shovel Company, The. (See King, Johnson, and Jacoby, assignors.)
- Maritzen, William A., San Mateo, Calif. Fireplace heating device. No. 1,314,968; Sept. 2; v. 266; p. 90.
- Mark, James M., Oregon City, Oreg. Rabbitt-mandrel. No. 1,299,981; Apr. 8; v. 261; p. 337.
- Mark Manufacturing Company. (See Fox, Gordon, assignor.)
- Markem Machine Company. (See Putnam, Fred A., assignor.)
- Marker, Christian H. (See Munn and Marker.)
- Markay, Eugene L. (See Lucas, William B., assignor.)
- Markham Air Rifle Co., The. (See Roe, Ernest S., assignor.)



## Alphabetical list of patentees—Continued.

- Markham, Sidney L., Jamestown, N. Y. Spring sash control. No. 1,318,573; Oct. 14; v. 267; p. 236.
- Markkula, Matt, Fort Bragg, Calif. Stake for cars. No. 1,324,402; Dec. 9; v. 269; p. 267.
- Markle, George N. (See Latsch and Markle.)
- Markley, Daniel R., Lancaster, Pa. Combination cylinder-lock. No. 1,308,090; July 1; v. 264; p. 16.
- Markley, Eugene, Middleburg, Pa. Photographic apparatus. No. 1,295,342; Feb. 25; v. 259; p. 639.
- Markley, Eugene, Middleburg, Pa. Photographic apparatus. No. 1,319,962; Oct. 28; v. 267; p. 548.
- Markley, Isaac, Clay City, Ind. Heating-stove. No. 1,315,379; Sept. 9; v. 266; p. 175.
- Marko, Louis, Akron, Ohio. Noodle-cutting machine. No. 1,314,885; Sept. 2; v. 266; p. 76.
- Marks, Albert, New Britain, Conn. Dating-stamp. No. 1,291,057; Jan. 14; v. 258; p. 276.
- Marks, Arthur, Knock, assignor to himself and Harland and Wolff Limited, Belfast, Ireland. Concrete. No. 1,309,296; July 8; v. 264; p. 266.
- Marks, Charles E., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Electrical regulator. No. 1,306,854; June 17; v. 263; p. 368.
- Marks, Isaac L., San Francisco, Calif. Motor-vehicle-radiator attachment. No. 1,316,846; Sept. 23; v. 266; p. 509.
- Marks, Isaac L., San Francisco, Calif. Radiator and sight-tube for motor-vehicles. No. 1,316,847; Sept. 23; v. 266; p. 509.
- Marks, Isaac T., Divide, W. Va. Nut-lock. No. 1,320,161; Oct. 28; v. 267; p. 585.
- Markwick, John, Detroit, Mich. Child's furniture. No. 1,309,097; July 8; v. 264; p. 229.
- Markwood, Webb W., Cambridge, Minn. Bracket bed-table. No. 1,295,182; Feb. 25; v. 259; p. 602.
- Marlatt, George E., Pasadena, Calif. Linotype-machine. No. 1,310,487; July 22; v. 264; p. 553.
- Marlatt, George E., Pasadena, Calif. Linotype-machine. No. 1,310,488; July 22; v. 264; p. 553.
- Marlatt, George E., Pasadena, Calif. Casting-jaw for linotype-machines. No. 1,317,881; Oct. 7; v. 267; p. 42.
- Marlin-Rockwell Corporation. (See Barlow, Lester P., assignor.)
- Marmon, Howard. (See Jeffers, Clarence E., assignor.)
- Marmon, Howard C., Indianapolis, Ind. Piston. No. 1,293,846; Feb. 11; v. 259; p. 234.
- Marmorestein, Israel, and H. Stone, New York, N. Y. Safety-lock for ribbons, bracelets, belts, and other similar articles. No. 1,303,704; May 13; v. 262; p. 257.
- Marmorestein, John, Jersey City, N. J. Anti-slip attachment for shoe-heels. No. 1,290,768; Jan. 7; v. 258; p. 182.
- Marovich, Jack N., et al. (See Arch, Charles J., assignor.)
- Marqua, Edward C., Kansas City, Mo. Dome for concrete structures. No. 1,305,299; June 3; v. 263; p. 13.
- Marquard, William B., Easton, Pa. Cooking process. No. 1,323,711; Dec. 2; v. 269; p. 91.
- Marquart, Leonard M., Georgetown, Minn. Riding-harrow. No. 1,323,481; Dec. 2; v. 269; p. 49.
- Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanizing device. No. 1,301,148; Apr. 22; v. 261; p. 649.
- Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making strand fabric. No. 1,304,694; May 27; v. 262; p. 520.
- Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making strand fabric. No. 1,321,223; Nov. 11; v. 268; p. 226.
- Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Mold. No. 1,325,898; Dec. 23; v. 269; p. 626.
- Marquis, Alex. and W. Sprott, Hondo, Tex. Cotton-topper and boll-weevil catcher. No. 1,325,406; Dec. 16; v. 269; p. 517.
- Marquis, Samuel, Middleburg, Ohio. Farm-gate. No. 1,290,769; Jan. 7; v. 258; p. 182.
- Marr, Alexander, Longsight, England. Apparatus for the reproduction of sound. No. 1,325,878; Dec. 23; v. 269; p. 623.
- Marriott, James L., Oskaloosa, Iowa. Reel. No. 1,297,380; Mar. 18; v. 260; p. 415.
- Marrs, Edward F., San Diego, Calif. Automobile-signal. No. 1,317,173; Sept. 30; v. 266; p. 607.
- Mars, Jesse B., Chicago, Ill. Implement for use in removing the contents of eggs. No. 1,316,315; Sept. 16; v. 266; p. 361.
- Marsa, Melchor, New York, assignor to International Cork Company, Brooklyn, N. Y. Cork-feeding mechanism. No. 1,300,441; Apr. 15; v. 261; p. 463.
- Marshall, Adolf J., Madison, Wis. Cooling apparatus for internal-combustion engines. No. 1,316,912; Sept. 23; v. 266; p. 521.
- Marshall, Ludwig, New York, N. Y. Aeroplane. No. 1,291,989; Jan. 21; v. 258; p. 528.
- Marsden, John E. (See Seubel, Frederick W., assignor.)
- Marsden, John E. (See Todd, Frederick J., assignor.)
- Marsden, Joshua R., Huddersfield, England. Machine for sandpapering or smoothing wood moldings. No. 1,312,193; Aug. 5; v. 265; p. 64.
- Marsden, Mark W., Philadelphia, Pa. Treatment of rice-straw for recovery of its values. No. 1,313,403; Aug. 19; v. 265; p. 343.
- Marsden, William N., Amsterdam, N. Y., assignor to Fownes Brothers & Co., London, England. Cam-follower mechanism. No. 1,299,754; Apr. 8; v. 261; p. 288.
- Marseilles Company. (See Vanderbilt, Farley D., assignor.)
- Marsh, Alonzo R., L. B. Marsh, and W. T. Marsh, assignors to Sterling Motor Car Co., Brockton, Mass. Lathe. No. 1,320,162; Oct. 28; v. 267; p. 585.
- Marsh, Charles. (See McKinley, Harry C., assignor.)
- Marsh, Clarence W., Greenwich, Conn. Electrolytic cell. No. 1,302,824; May 6; v. 262; p. 65.
- Marsh, Edward S., Rochester, N. Y. Controlling mechanism for talking-machines. No. 1,307,014; June 17; v. 263; p. 398.
- Marsh, Edward, Chicago, Ill. Sharpener for razor-blades. No. 1,316,965; Sept. 23; v. 266; p. 531.
- Marsh, Edwin T., Rochester, N. Y. Baling-press. No. 1,296,830; Mar. 11; v. 260; p. 264.
- Marsh, Francis J., Gill, Kans. Electrical railway signaling system. No. 1,313,904; Aug. 26; v. 265; p. 471.
- Marsh, Laurence B. (See Marsh, Alonzo R., L. B., and W. T.)
- Marsh, Marshall S., et al. (See Morehouse, William H., assignor.)
- Marsh, Orlando R., Chicago, Ill. Electric tap. No. 1,290,623; Jan. 7; v. 258; p. 147.
- Marsh, Thomas A., assignor to Green Engineering Company, East Chicago, Ind. Furnace-stoker. No. 1,305,482; June 3; v. 263; p. 47.
- Marsh, Thomas A., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Furnace. No. 1,326,361; Dec. 30; v. 269; p. 748.
- Marsh, William T. (See Marsh, Alonzo R., L. B., and W. T.)
- Marshall, Abraham L., Kansas City, Mo. Oil-burner. No. 1,322,712; Nov. 25; v. 268; p. 609.
- Marshall, Albert T., assignor to Automatic Refrigerating Company, Hartford, Conn. Valve-control system. No. 1,326,603; Dec. 30; v. 269; p. 795.
- Marshall, Alvin J., Lynn, Mass. Bandage. No. 1,315,319; Sept. 9; v. 266; p. 165.
- Marshall, Andrew J., Richmond, Tex. Plow. No. 1,307,408; June 24; v. 263; p. 502.
- Marshall, Charles A., Denver, assignor of one-half to L. H. Blonger, Edgewater, Colo. Tractor. No. 1,301,583; Apr. 22; v. 261; p. 733.
- Marshall Dobbins & Co. (See Butcher, James M., assignor.)
- Marshall Field & Company. (See Dufour, George H., assignor.)
- Marshall, Harry B., Long Beach, Calif. Surf-mattress. No. 1,307,825; June 24; v. 263; p. 578.
- Marshall, Harry P., Glen Ridge, assignor of one-third to H. B. Freeman, Newark, and one-third to C. J. Farr, Bayonne, N. J. Toy or game. No. 1,322,713; Nov. 25; v. 268; p. 610.
- Marshall, James E., Cleveland, Ohio, assignor to General Electric Company. Apparatus for shaping filaments. No. 1,298,533; Mar. 25; v. 260; p. 687.
- Marshall, James E., and T. J. Volz, Caney, Kans. Automobile lock and signal. No. 1,297,214; Mar. 11; v. 260; p. 350.
- Marshall, James F., Whitesville, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Weft-parter device for weft-replenishing looms. No. 1,291,058; Jan. 14; v. 258; p. 276.
- Marshall, James F., Whitesville, and C. E. Knowlton, North Grafton, assignors, by mesne assignments, to Draper Corporation, Hopedale, Mass. Thread-parter for automatic weft-replenishing looms. No. 1,291,059; Jan. 14; v. 258; p. 276.
- Marshall, Jesse I., Rogers, Ark. Oiler for stocks and dies. No. 1,319,600; Oct. 21; v. 267; p. 457.
- Marshall, John, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing dinitrodiphenylamin. No. 1,309,580; July 8; v. 264; p. 319.
- Marshall, Joseph, London, England. Signaling apparatus. No. 1,326,522; Dec. 30; v. 269; p. 780.
- Marshall, Lewis C. (See Sieverts, Wilhelm C. A., assignor.)
- Marshall, Lillard T., Winchester, Ky. Chiropractic table. No. 1,301,071; Apr. 15; v. 261; p. 599.
- Marshall, Milton F., Parsons, Kans. Spray-gun. No. 1,301,149; Apr. 22; v. 261; p. 650.
- Marshall, Robert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread placer and cutter. No. 1,307,015; June 17; v. 263; p. 398.
- Marshall Ventilated Mattress Company, The. (See Genge, Frederick C., assignor.)
- Marshall, William, Bridgeton, assignor of one-half to J. Westcott, Ocean City, N. J. Life-saver for aviators. No. 1,322,806; Nov. 25; v. 268; p. 627.
- Marshall, William H. (See Wright and Marshall.)
- Marshall, William J. (See Maimin and Marshall.)
- Marshall, William J., Cortez, Colo. Saw-set. No. 1,315,564; Sept. 9; v. 266; p. 209.



- Marshall, William J., Newark, N. J., assignor to H. Maimin Company, Inc. Cloth-cutting machine. No. 1,307,561; June 24; v. 263; p. 530.
- Marshutz, Siegfried G. (See Collins, George A., assignor.)
- Marsico, Gerard R., Brooklyn, N. Y. Signal. No. 1,306,493; June 10; v. 263; p. 269.
- Marsico, Jerard R., Brooklyn, N. Y. Massage device. No. 1,305,917; June 3; v. 263; p. 130.
- Marsico, Vincenzo, Watts, Calif. Tree-protector. No. 1,323,891; Dec. 2; v. 269; p. 126.
- Marston, Charles F., Bar Harbor, Me. Selective controlling mechanism. No. 1,303,095; May 6; v. 262; p. 117.
- Marston, Charles F., Brooklyn, N. Y. Selective controlling mechanism. No. 1,305,143; May 27; v. 262; p. 603.
- Marston, Harry T., Matatiele, Cape of Good Hope, South Africa. Parallel-ruler for blackboards and the like. No. 1,323,081; Nov. 25; v. 268; p. 678.
- Martel, Edgar J., Laconia, N. H. Mounting for eyeglasses. No. 1,291,060; Jan. 14; v. 258; p. 277.
- Martell, Albert A., Mansfield, Mass., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Expandible tool and grinding the blades thereof. No. 1,321,838; Nov. 18; v. 268; p. 394.
- Marten, Harry E. (See Boswell and Marten.)
- Marten, Thomas H., Toronto, Ontario, Canada. Mechanical davit. No. 1,295,183; Feb. 25; v. 259; p. 602.
- Marten, Thomas H., Toronto, Ontario, Canada. Davit. No. 1,304,897; May 27; v. 262; p. 557.
- Marten, Thomas H., New York, N. Y. Ship's davit. No. 1,313,404; Aug. 19; v. 265; p. 343.
- Marten, Thomas H., Toronto, Ontario, Canada. Ship's life-boat davit. No. 1,319,351; Oct. 21; v. 267; p. 409.
- Marten, Thomas H., Toronto, Ontario, Canada. Attachment for life-boat davits. No. 1,319,352; Oct. 21; v. 267; p. 409.
- Marten, Thomas H., Toronto, Ontario, Canada. Davit for ships' life-boats. No. 1,319,353; Oct. 21; v. 267; p. 409.
- Martena, Joseph, New York, N. Y. Bomb or shell. No. 1,314,413; Aug. 26; v. 265; p. 569.
- Martens, Charles, Springfield, Ill. Shock-absorber. No. 1,301,474; Apr. 22; v. 261; p. 713.
- Martens, Edward H. (See Willis and Martens.)
- Martens, Franz, Elberfeld, Germany. Tamping-machine. No. 1,320,258; Oct. 28; v. 267; p. 603.
- Martens, Franz, Elberfeld, Germany. Nut-lock. No. 1,320,259; Oct. 28; v. 267; p. 603.
- Martens, John, Chicago, Ill. Water-heater. No. 1,323,302; Dec. 2; v. 269; p. 15.
- Martens, Ludwig A., Teaneck, N. J., assignor to Kinetic Engineering Company, Inc., New York, N. Y. Torque-equalizing means. No. 1,309,257; July 8; v. 264; p. 258.
- Martens, Ludwig A., Teaneck, N. J., assignor to Kinetic Engineering Company, Inc., New York, N. Y. Torque-equalizing means. No. 1,315,380; Sept. 9; v. 266; p. 176.
- Marth, Charles J., assignor to Wayne Manufacturing Company, St. Louis, Mo. Driving mechanism. No. 1,296,100; Mar. 4; v. 260; p. 65.
- Marthay, Frank, Osaka, Va. Safety-envelop. No. 1,318,895; Oct. 14; v. 267; p. 297.
- Marti, Alfred, and A. Oesch, Erie, Pa. Tool-holder. (Reissue.) No. 14,664; June 10; v. 263; p. 305.
- Martin, Alvie R., assignor of one-half to J. V. Trammell, Stonefort, Ill. Automatic piston. No. 1,294,506; Feb. 18; v. 259; p. 424.
- Martin, August, and H. H. Doering, Chicago, Ill.; said Doering assignor to said Martin. Egg-treating machine. No. 1,312,337; Aug. 5; v. 265; p. 89.
- Martin, Blanch A., et al. (See Shields, George A., assignor.)
- Martin Cantine Company, The. (See Dickhaut, Stephen J., assignor.)
- Martin, Charles C. (See Wright, Schellentrager, and Martin.)
- Martin, Charles H., Springfield, Mass. Tractor. No. 1,320,562; Nov. 4; v. 268; p. 38.
- Martin, Charles J., Holden, Mo. Draft-equalizer. No. 1,295,781; Feb. 25; v. 259; p. 741.
- Martin, Claude F., assignor of one-half to C. Rodeen, Paxton, Ill. Corn-harvester. No. 1,324,683; Dec. 9; v. 269; p. 321.
- Martin, Cyrus H., et al. (See Shields, George A., assignor.)
- Martin, Eugène, Toulouse, France. Protecting device for ammunition. No. 1,314,199; Aug. 26; v. 265; p. 527.
- Martin, Francis, R., et al. (See Wilson, George A., assignor.)
- Martin, Frederick H. (See Kohler and Martin.)
- Martin, George, Ansonia, Conn. Pressure oil-cup. No. 1,309,442; July 8; v. 264; p. 293.
- Martin, George C., assignor to G. E. Kellar, Los Angeles, Cal. Bearing for pump-shafts. No. 1,292,626; Jan. 28; v. 258; p. 704.
- Martin, George W., San Antonio, Tex. Condensing apparatus. No. 1,299,982; Apr. 8; v. 261; p. 337.
- Martin, George W., assignor to Oil Mill Machinery & Manufacturing Co., Fort Worth, Tex. By-pass draft-fan. No. 1,315,028; Sept. 2; v. 266; p. 102.
- Martin, Glenn L. (See McCullough, Frederick S., assignor.)
- Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Registering-machine. No. 1,294,507; Feb. 18; v. 259; p. 424.
- Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,307,591; June 24; v. 263; p. 535.
- Martin, Haakon A., Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Railway-ticket-issuing machine. No. 1,309,954; July 15; v. 264; p. 426.
- Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Ticket-issuing machine. No. 1,314,345; Aug. 26; v. 265; p. 556.
- Martin, Haakon A., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,323,303; Dec. 2; v. 269; p. 15.
- Martin, Harold, Dulwich, London, England. Manometer. No. 1,320,484; Nov. 4; v. 268; p. 24.
- Martin, Harold M., New York, N. Y., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Process and apparatus for treating storage-battery plates. No. 1,310,871; July 22; v. 264; p. 624.
- Martin, Harry C., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive wheel. No. 1,310,360; July 15; v. 264; p. 498.
- Martin, Harry J., Fort Dodge, Iowa. Gerbe and lance piece for pyrotechnics. No. 1,291,584; Jan. 14; v. 258; p. 397.
- Martin, Horace G., Rutherford, N. J. Portable electric light. No. 1,318,400; Oct. 14; v. 267; p. 202.
- Martin, Howard B. (See Martin, Ira J. and H. B.)
- Martin, Ira J. and H. B. Pawtucket, R. I. Fuse for explosive shells. No. 1,311,081; July 22; v. 264; p. 663.
- Martin, James A. (See Linton, John F., assignor.)
- Martin, James C. (See Haas, Paul C., assignor.)
- Martin, James L., Yates Center, Kans. Insulating-coupling for fence-wires. No. 1,304,342; May 20; v. 262; p. 413.
- Martin, James V., Detroit, Mich. Stabilizing and neutralizing device for aircraft. No. 1,302,947; May 6; v. 262; p. 89.
- Martin, James V., Detroit, Mich. Aircraft running and alighting device. No. 1,306,768; June 17; v. 263; p. 352.
- Martin, Jesse C., Jr., Sausalito, Calif. Locomotive-boiler furnace. No. 1,316,628; Sept. 23; v. 266; p. 469.
- Martin, Jesse C., Jr., San Francisco, Calif. Air-admission means for boiler-furnaces. No. 1,321,537; Nov. 11; v. 268; p. 286.
- Martin, John C., Faulkton, S. D. Visual tail-light reflector. No. 1,301,150; Apr. 22; v. 261; p. 650.
- Martin, John E. (See Zeindler and Martin.)
- Martin, John F., Gentry, Ark. Candle-holder. No. 1,302,399; Apr. 29; v. 261; p. 920.
- Martin, John S., Atlantic City, assignor to Splitdorf Electrical Company, Newark, N. J. Magneto attachment. No. 1,318,218; Oct. 7; v. 267; p. 107.
- Martin, Joseph, assignor of one-half to H. F. Zink, Detroit, Mich. Bowling-alley surfer. No. 1,308,762; July 8; v. 264; p. 167.
- Martin, Joseph B., Philadelphia, Pa. Safety device to compel proper observance of railway-signals. No. 1,305,391; June 3; v. 263; p. 31.
- Martin, Lewis H., Indianapolis, Ind. Kerosene-vaporizer for internal-combustion engines. No. 1,319,718; Oct. 28; v. 267; p. 502.
- Martin, Louis L., Toronto, Ontario, Canada. Dome-fastener machine. No. 1,323,482; Dec. 2; v. 269; p. 49.
- Martin-Lumaghi Manufacturing Company. (See Cochran, John J., assignor.)
- Martin, Martin, Chatham, Ontario, Canada. Compasses. No. 1,294,294; Feb. 11; v. 259; p. 338.
- Martin, Paul E., township 6 south, range 6 east, Custer county S. D. Tension-gate. No. 1,298,241; Mar. 25; v. 260; p. 624.
- Martin, Perry S., Harrisonburg, Va. Thermostat. No. 1,318,401; Oct. 14; v. 267; p. 202.
- Martin, Perry S., Harrisonburg, Va. Device for heating radiators of motor-vehicles. No. 1,322,036; Nov. 18; v. 268; p. 430.
- Martin, Perry S., assignor to Newton Giant Incubator Corporation, Harrisonburg, Va. Automatic egg-turning device. (Reissue.) No. 14,673; June 24; v. 263; p. 615.)
- Martin, Robert P. (See Kollock and Martin.)
- Martin, Scott O., Lamar, Colo. Ditching-plow. No. 1,311,829; July 29; v. 264; p. 834.
- Martin, Silas W., Oglesby, Tex. Plant-chopper. No. 1,311,411; July 29; v. 264; p. 757.
- Martin, Talbot G. (See Campbell and Martin.)
- Martin, Talbot G. (See Willis and Martin.)
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Telephone trunking system. No. 1,291,585; Jan. 14; v. 258; p. 397.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Trunking and supervisory system. No. 1,291,586; Jan. 14; v. 258; p. 397.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Two-wire party-line lock-out telephone system. No. 1,291,587; Jan. 14; v. 258; p. 398.



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- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Two-wire rotary-connector telephone system. No. 1,291,990; Jan. 21; v. 255; p. 528.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,293,499; Feb. 4; v. 259; p. 122.
- Martin, Talbot G., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Combined automatic and manual telephone system. No. 1,301,584; Apr. 22; v. 261; p. 733.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Telephone system. No. 1,303,937; May 20; v. 262; p. 338.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone switching apparatus. (Reissue.) No. 1,4665; June 10; v. 263; p. 305.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Party-line selective signaling system. No. 1,306,494; June 10; v. 263; p. 269.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic or semi-automatic telephone system. No. 1,308,740; July 1; v. 264; p. 134.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic private-branch exchange telephone system. No. 1,312,558; Aug. 12; v. 265; p. 162.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,312,702; Aug. 12; v. 265; p. 191.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Repeater for automatic telephone systems. No. 1,314,454; Aug. 26; v. 265; p. 577.
- Martin, Talbot G., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Trunking arrangement for automatic telephone-exchanges. No. 1,314,685; Sept. 2; v. 266; p. 40.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,315,445; Sept. 9; v. 266; p. 188.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange system. No. 1,316,101; Sept. 16; v. 266; p. 321.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Party-line telephone system. No. 1,321,319; Nov. 11; v. 268; p. 245.
- Martin, Talbot G., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Semi-automatic telephone system. No. 1,323,483; Dec. 2; v. 269; p. 49.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Two-wire party-line lockout telephone system. No. 1,324,202; Dec. 9; v. 269; p. 229.
- Martin, Talbot G., Chicago, and E. Jacobsen, Evanston, Ill., assignors to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,292,499; Jan. 28; v. 258; p. 672.
- Martin, Thomas, Newton, Wellington, New Zealand. Non-refillable bottle. No. 1,325,100; Dec. 16; v. 269; p. 460.
- Martin, Treville O., Jackson, Tenn. Tool-holder. No. 1,304,898; May 27; v. 262; p. 557.
- Martin, Victor H. G. (See Maitre and Martin.)
- Martin, William. (See Clark, William R., assignor.)
- Martin, William C., assignor to Morand Bros-Martin Cushion Wheel Co., Chicago, Ill. Cushion-tire construction. No. 1,292,345; Jan. 21; v. 258; p. 615.
- Martin, William D. and H. Schrik, Chicago, Ill. Combined metal panel and door construction. No. 1,304,343; May 20; v. 262; p. 413.
- Martin, William J., Cleveland, Ohio. Stake. No. 1,320,081; Oct. 28; v. 267; p. 570.
- Martin, William L. (See Brown and Martin.)
- Martin, William L., Boyne City, Mich. Shield for the protection of ships. No. 1,311,002; July 22; v. 264; p. 648.
- Martindale, Frank L., Saginaw, Mich. Efficiency-meter. No. 1,293,155; Feb. 4; v. 259; p. 42.
- Martindale, Moses, Vincennes, Ind. Adjustable bearing. No. 1,319,885; Oct. 28; v. 267; p. 534.
- Martineau, Clarence R., Slingerlands, assignor, by mesne assignments, to J. T. Underwood, Brooklyn, N. Y. Mechanical adding device. No. 1,324,460; Dec. 9; v. 269; p. 279.
- Martinelli, Henry C., Springfield, Mass. Bottle-washer. No. 1,323,604; Dec. 2; v. 269; p. 71.
- Martinez, Francisco, Mexico, Mexico. Valved cesspool-trap. No. 1,320,883; Nov. 4; v. 268; p. 99.
- Martinez, Jose G., Harrison, N. J. Fruit-picker. No. 1,319,407; Oct. 21; v. 267; p. 420.
- Martinko, John A., Beaverdale, Pa. Trolley-harp. No. 1,326,762; Dec. 30; v. 269; p. 825.
- Martinsen, Charles. (See Martinsen, Martin H. and C.)
- Martinsen, Martin H. and C., Bryn Mawr, Wash. Form for concrete ships. No. 1,292,500; Jan. 28; v. 258; p. 672.
- Martire, Giuseppe D., Milan, Italy. Ignition-magneto switch for internal-combustion engines. No. 1,308,503; July 1; v. 264; p. 90.
- Martone, Pasquale G. (See Ancotti and Martone.)
- Martus, Augustus A., Brown City, Mich. Bean-sorting machine. No. 1,298,988; Apr. 1; v. 261; p. 86.
- Martus, Martin L. (See Schoenmehl and Martus.)
- Marty, Benjamin F., assignor of one-third to W. A. Marty, Highland Park, Mich. Starter for hydrocarbon-engines. No. 1,319,408; Oct. 21; v. 267; p. 420.
- Marty, William A. (See Marty, Benjamin F., assignor.)
- Martyn, David L. and J. M. Henderson, Walla Walla, Wash. Heel-support. No. 1,299,983; Apr. 8; v. 261; p. 337.
- Martyn, Thomas H. (See Martyn, William H., assignor.)
- Martyn, William H., Tenterfield, assignor to T. H. Martyn, Sydney, New South Wales, Australia. Appliance for automatically governing the feed of fuel-oil to internal-combustion engines of the type of which the cylinders rotate. No. 1,292,346; Jan. 21; v. 258; p. 615.
- Martyn, William H., Tenterfield, assignor to T. H. Martyn, Sydney, New South Wales, Australia. Apparatus for injection of fuel-oil into internal-combustion engines. No. 1,292,347; Jan. 21; v. 258; p. 615.
- Martyn, William H., Tenterfield, assignor to T. H. Martyn, Sydney, New South Wales, Australia. Mechanical starting appliance for engines. No. 1,309,902; July 15; v. 264; p. 416.
- Marui, Hyokichi, New York, N. Y. Aerial toy. No. 1,291,991; Jan. 21; v. 258; p. 528.
- Marvel Accessories Manufacturing Company, The. (See Rose, Jacob B., assignor.)
- Marvel Machinery Company. (See Lechnyr and Larson, assignors.)
- Marvel Machinery Company. (See Zesbaugh, Larson, Thomas, and Fryckberg, assignors.)
- Marvin, Charles R., Jr., Redding, Conn., assignor of one-third to A. P. W. Seaman and one-third to A. E. Stevenson, New York, N. Y. Shoe. No. 1,293,847; Feb. 11; v. 259; p. 234.
- Marvin, Clarence, Mather, Wis. Excavator. No. 1,313,715; Aug. 19; v. 265; p. 402.
- Marvin, Harry N., Rye, N. Y. Apparatus for delineating character according to the character of the hand. No. 1,312,860; Aug. 12; v. 265; p. 222.
- Marvin, John G., Marion, Ind. Storm-window. No. 1,321,224; Nov. 11; v. 268; p. 227.
- Marvin, Wilfred F., Newark, N. Y. Weather-screen for vehicles. No. 1,317,208; Sept. 30; v. 266; p. 613.
- Marx, Charles H., Chicago, Ill., assignor to The Phonoharp Company, East Boston, Mass. Keyed zither. No. 1,304,997; May 27; v. 262; p. 576.
- Marx, Gustave C. (See Hertz and Marx.)
- Marx, Joseph J., St. Louis, Mo. Pad-support for pressing-machines. No. 1,312,641; Aug. 12; v. 265; p. 180.
- Marx, Milton, La Grange, Ill. Packing-rack. No. 1,320,335; Oct. 28; v. 267; p. 617.
- Marx, Richard, assignor to Defiance Manufacturing Company, Philadelphia, Pa. Calendar-stand. No. 1,296,304; Mar. 4; v. 260; p. 111.
- Marx, Roland G., Palo Alto, and L. F. Fuller, assignors to Federal Telegraph Company, San Francisco, Calif. Radiotelegraphy. No. 1,316,172; Sept. 16; v. 266; p. 334.
- Maryland Products Company. (See Caver, Trevor M., assignor.)
- Marzio, Giuseppe, Bari, Italy. Floatable safe. No. 1,307,263; June 17; v. 263; p. 442.
- Mascari, Giovanni, and A. Contardi, Milan, Italy. Motor-starter. No. 1,302,400; Apr. 29; v. 261; p. 920.
- Mascord, George W., Barnes, London, England. Fudge or late-news device for newspaper-printing presses. No. 1,301,072; Apr. 15; v. 261; p. 599.
- Mascord, George W., London, England. Distribution of electromotive power. No. 1,309,443; July 8; v. 264; p. 293.
- Masera, Carlo, Turin, Italy. Electric furnace. No. 1,320,884; Nov. 4; v. 268; p. 99.
- Masilunas, Kazimiras, Chicago, Ill. Candlestick. No. 1,296,682; Mar. 11; v. 260; p. 230.
- Masillan, William, Raymond, Wash. Flooring-block. No. 1,299,494; Apr. 8; v. 261; p. 228.
- Masko, George S., Seattle, Wash. Vehicle-signal. No. 1,321,320; Nov. 11; v. 268; p. 246.
- Masland, Harvey C., Philadelphia, Pa. Surgical instrument. No. 1,308,798; July 8; v. 264; p. 173.
- Masland, Harvey C., Philadelphia, Pa. Surgical instrument for resetting broken bones. No. 1,308,799; July 8; v. 264; p. 173.
- Mason, Alvin M., Bozeman, Mont. Threshing-machine cylinder. No. 1,302,573; May 6; v. 262; p. 17.
- Mason, Alvin M., Bozeman, Mont. Threshing-machine cylinder. No. 1,302,574; May 6; v. 262; p. 18.
- Mason, Archibald O., Chicago, Ill. Aluminum alloy. No. 1,305,300; June 3; v. 263; p. 14.
- Mason, Arthur C., Flint, Mich., assignor, by mesne assignments, to Chevrolet Motor Company. Automobile wheel-brake. No. 1,301,956; Apr. 29; v. 261; p. 837.
- Mason, Charles R., and E. W. Trigg, Youngstown, Ohio. Grocery-cabinet. No. 1,301,864; Apr. 29; v. 261; p. 819.
- Mason, Charles T., Sumter, S. C., assignor to Splittorf Electrical Company, Newark, N. J. Interrupter for ignition-dynamos. No. 1,290,624; Jan. 7; v. 258; p. 147.
- Mason, Charles T., Sumter, S. C., assignor to Splittorf Electrical Company, Newark, N. J. Ignition-dynamo. No. 1,298,534; Mar. 25; v. 260; p. 687.



- Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Method and apparatus for igniting the charge in internal-combustion engines. No. 1,299,592; Apr. 8; v. 261; p. 250.
- Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-dynamo. No. 1,318,219; Oct. 7; v. 267; p. 107.
- Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Method and apparatus for ignition systems. No. 1,318,220; Oct. 7; v. 267; p. 108.
- Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-dynamo. No. 1,325,257; Dec. 16; v. 269; p. 490.
- Mason, Earl W. (See Baker and Mason.)
- Mason, Francis C., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Vacuum-cleaner. No. 1,302,192; Apr. 29; v. 261; p. 880.
- Mason, Frank B., Bayonne, N. J. Making lubricating-grease. No. 1,294,136; Feb. 11; v. 259; p. 302.
- Mason, Frank C., Los Angeles, Calif. Clutch-lock for motor-vehicles. No. 1,295,343; Feb. 25; v. 259; p. 639.
- Mason, Frank C., Los Angeles, Calif. Guard device. No. 1,314,144; Aug. 26; v. 265; p. 517.
- Mason, Frederick A. (See King and Mason.)
- Mason, Gerald, Terre Haute, Ind. Advertising toy. No. 1,323,892; Dec. 2; v. 269; p. 126.
- Mason, Hoge, Bluefield, W. Va. Frame-house construction. No. 1,315,142; Sept. 2; v. 266; p. 122.
- Mason, Hugh B., San Bernardino, Calif. Wind-shield for automobiles. No. 1,317,520; Sept. 30; v. 266; p. 673.
- Mason, James H. (See Thurston, Elmer A., assignor.)
- Mason, James J., Cisco, Calif. Telegraph-key. No. 1,302,401; Apr. 29; v. 261; p. 920.
- Mason, Jason B., assignor to Reed Foundry & Machine Co., Kalamazoo, Mich. Tractor-plow. No. 1,298,989; Apr. 1; v. 261; p. 86.
- Mason, John H., Heavener, Okla. Emergency-hub. No. 1,313,405; Aug. 19; v. 265; p. 343.
- Mason, Joseph J., Rochester, N. Y. Mail-protecting apparatus. No. 1,305,732; June 3; v. 263; p. 95.
- Mason, Julius H., Duncan Falls, assignor of one-half to S. M. Garrett, Muskingum county, Ohio. Sectional coal-auger nut. No. 1,297,215; Mar. 11; v. 260; p. 350.
- Mason, Lyman P., Chicago, Ill. Artificial bait. No. 1,293,500; Feb. 4; v. 259; p. 122.
- Mason, Mittie, Washington, D. C. Cover for latrine-seats. No. 1,313,236; Aug. 12; v. 265; p. 296.
- Mason, Nellie G., Philadelphia, Pa. Insignia structure. No. 1,326,604; Dec. 30; v. 269; p. 795.
- Mason Regulator Company. (See Melcher, George S., assignor.)
- Mason, Samuel C., assignor to Victor Last Company, Lynn, Mass. Re-formed last and making same. No. 1,322,253; Nov. 18; v. 268; p. 471.
- Mason, Wallace N., Angelica, N. Y. Vending-machine. No. 1,316,492; Sept. 16; v. 266; p. 395.
- Mason, Wallace N., Delevan, N. Y. Vending-machine. No. 1,321,382; Nov. 11; v. 268; p. 258.
- Mason, William H., South Orange, N. J. Gearless power transmission. No. 1,298,990; Apr. 1; v. 261; p. 87.
- Mason, William H., Easton, Pa. Portable electrical generating apparatus. No. 1,308,959; July 8; v. 264; p. 203.
- Masonick, Joseph A., assignor to J. A. Masonick Company, Lake Forest, Ill. Dish-washing machine. No. 1,293,848; Feb. 11; v. 259; p. 234.
- Mass, Raoul P., Hawthorn, Melbourne, Victoria, Australia. Station-indicator for railway-cars. No. 1,310,361; July 15; v. 264; p. 498.
- Massachusetts Saw Works. (See Jackman and Squire, assignors.)
- Masser, Allan M., assignor to Combustion Service Corporation, Chicago, Ill. Grate-bar. No. 1,314,009; Aug. 26; v. 265; p. 492.
- Massey, Charles F., assignor to Massey Concrete Products Corporation, Chicago, Ill. Method of and apparatus for removing concrete poles from their molds. No. 1,315,733; Sept. 9; v. 266; p. 238.
- Massey Concrete Products Corporation. (See Gruenfeld, Julius J., Jr., assignor.)
- Massey Concrete Products Corporation. (See Gruenfeld and Kircher, assignors.)
- Massey Concrete Products Corporation. (See Kircher, Paul, assignor.)
- Massey Concrete Products Corporation. (See Massey, Charles F., assignor.)
- Massey, Edward T., New York, N. Y. Emblematic button and making it. No. 1,307,870; June 24; v. 263; p. 586.
- Massey, Edward T., New York, N. Y. Finishing-machine for emblematic buttons. No. 1,325,526; Dec. 23; v. 269; p. 557.
- Massey-Harris Company, The. (See Rleske, Otto G., assignor.)
- Massey-Harris Company Limited. (See Johnston, Howard M., assignor.)
- Massey, John F., and W. W. Rabensdorf, Fairchild, Wis. Spring-wheel. No. 1,290,625; Jan. 7; v. 258; p. 148.
- Massing, Frank, Cleveland, Ohio, assignor, by mesne assignments, to The Griswold Manufacturing Company, Erie, Pa. Metal ware. No. 1,293,849; Feb. 11; v. 259; p. 235.
- Mastalia, Enrico, (also known as Harry Mastle,) assignor to H. J. Johnson, Leeds, England. Advertising board or frame. No. 1,304,080; May 20; v. 262; p. 364.
- Masten, Matthew L., St. Louis, Mo., assignor to International Mastentype Company, Wilmington, Del. Stenographic writing-machine. No. 1,295,782; Feb. 25; v. 259; p. 741.
- Masten, Selah B., New York, N. Y. Concrete-clip. No. 1,304,586; May 27; v. 262; p. 499.
- Masters, George R. D., Charlottesville, Ind. Wheel-hub. No. 1,317,090; Sept. 23; v. 266; p. 555.
- Masters, Sylvester, Cleveland, Ohio. Ice-cream packer. No. 1,315,143; Sept. 2; v. 266; p. 122.
- Masters, Thomas A., Bingham Canyon, Utah. Carriage-maker's plane. No. 1,325,101; Dec. 16; v. 269; p. 460.
- Masterson, James H., College Point, N. Y., assignor to Frederick Osann Company. Sewing-machine. No. 1,302,689; May 6; v. 262; p. 39.
- Mastick, Edwin A., Jr., Cleveland, Ohio. Shingle-strip. No. 1,298,535; Mar. 25; v. 260; p. 687.
- Mastick, Edwin A., Jr., Cleveland, Ohio. Shingle-strip. No. 1,298,536; Mar. 25; v. 260; p. 687.
- Mastle, Harry. (See Mastalia, Enrico.)
- Mastrangelo, Frank, Fitchburg, Mass. Tailor's rule. No. 1,314,085; Aug. 26; v. 265; p. 506.
- Masumian, James G., Brooklyn, N. Y. Figure toy. No. 1,298,077; Mar. 25; v. 260; p. 588.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Transmission-gearing for motor-trucks. No. 1,290,626; Jan. 7; v. 258; p. 148.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Cooling device for internal-combustion engines. No. 1,291,992; Jan. 21; v. 258; p. 529.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Mobile gun-carriage. No. 1,295,344; Feb. 25; v. 259; p. 639.
- Matchette, Frank J., Milwaukee, Wis., assignor to The Servidor Company, Wilmington, Del. Service door. No. 1,324,608; Dec. 9; v. 269; p. 307.
- Mate, William C. A. (See Poulson and Mate.)
- Matha, Albert, and J. F. Lesko, Chicago, Ill. Burglar-alarm and lock. No. 1,314,086; Aug. 26; v. 265; p. 506.
- Mather, Alonzo C., Chicago, Ill. Combined metallic draft-sill and body-bolster. No. 1,317,521; Sept. 30; v. 266; p. 673.
- Mather, Carl N. (See Ainsworth, William A., assignor.)
- Mather, Charles F., Erie, Pa. Sand-box ventilator. No. 1,299,495; Apr. 8; v. 261; p. 228.
- Mather, Gurdon C., Detroit, Mich. Support for demountable rims. No. 1,324,461; Dec. 9; v. 269; p. 279.
- Mather, Gurdon C., assignor to Paige-Detroit Motor Car Company, Detroit, Mich. Lamp-support. No. 1,320,775; Nov. 4; v. 268; p. 78.
- Mather, Marion G., Franklinville, N. Y. Displaying device. No. 1,304,899; May 27; v. 262; p. 557.
- Mather, Milo E., Los Angeles, Calif. Sash-weight. No. 1,310,165; July 15; v. 264; p. 463.
- Mathers, Frank C., and J. Papish, assignors, by mesne assignments, to Frank C. Mathers & Jacob Papish, Bloomington, Ind. Coloring liquor and staining metals. No. 1,308,092; July 1; v. 264; p. 16.
- Mathers, Harry E., Delta, Colo. Cutting-machine. No. 1,308,600; July 1; v. 264; p. 108.
- Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Signal-correcting system. No. 1,295,553; Feb. 25; v. 259; p. 689.
- Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Amplifying and correcting system. No. 1,311,283; July 29; v. 264; p. 733.
- Mathes, Robert C., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube repeater. No. 1,313,406; Aug. 19; v. 265; p. 343.
- Matheson, Howard W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Fireproofing and products thereof. No. 1,309,581; July 8; v. 264; p. 319.
- Matheson, Howard W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Coating and product thereof. No. 1,313,913; Sept. 23; v. 266; p. 521.
- Matheus, Karl, assignor to R. Hochmuth, Chicago, Ill. Sled. No. 1,318,166; Oct. 7; v. 267; p. 96.
- Mathews, Bryant. (See Nelson, John J., assignor.)
- Mathews, Charles O., Milford, Conn. Hearse-table. No. 1,299,984; Apr. 8; v. 261; p. 337.
- Mathews Engineering Company, The. (See Cosgray, Mark C., assignor.)
- Mathews, Fred, Chicago, Ill., assignor to Union Metal Products Company. Bracket for car-doors. No. 1,322,037; Nov. 18; v. 268; p. 430.
- Mathews, Fred, Chicago, Ill., assignor, by mesne assignments, to W. P. Murphy, New York, N. Y. Car-door fastener. No. 1,322,499; Nov. 18; v. 268; p. 518.
- Mathews Gravity Carrier Company. (See Buck, Herman J., assignor.)



## Alphabetical list of patentees—Continued.

- Mathews Gravity Carrier Company. (See Kellogg, Winthrop C., assignor.) (Reissue.)
- Mathews, Harter, Batesburg, S. C. Wagon-tongue support. No. 1,316,493; Sept. 16; v. 266; p. 395.
- Mathews, John H. (See Krawczynski, Joseph, assignor.)
- Mathews, Samuel J., Kansas City, Mo., assignor to B & B Manufacturing and Drilling Company. Drilling-gear. No. 1,300,988; Apr. 15; v. 261; p. 579.
- Mathews, Samuel J., Kansas City, Mo., assignor to B & B Manufacturing and Drilling Company. Well-drilling apparatus. No. 1,300,989; Apr. 15; v. 261; p. 579.
- Mathews, William N., Wellsburg, W. Va. Apartment-tank glass-furnace. No. 1,324,917; Dec. 16; v. 269; p. 426.
- Mathews, William N., Wellsburg, W. Va. Regenerative glass-furnace. No. 1,324,918; Dec. 16; v. 269; p. 426.
- Mathias, Berton M., Minneapolis, Minn. Shock-absorbing mounting. No. 1,292,841; Jan. 28; v. 258; p. 754.
- Mathias, Berton M., Minneapolis, Minn. Mud-lug. No. 1,314,087; Aug. 26; v. 265; p. 506.
- Mathias, Berton M., Minneapolis, assignor of one-half to C. D. Knochs, East Shore Park, Minn. Worm-gearing. No. 1,299,593; Apr. 8; v. 261; p. 250.
- Mathias, Thomas H., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Rail. No. 1,306,967; June 17; v. 263; p. 389.
- Mathias, William G., Ensley, Ala. Ingot-mold. No. 1,290,627; Jan. 7; v. 258; p. 148.
- Mathieu, Alphonse. (See Raymond, Mathieu, and Lavalle.)
- Mathis, August, Chicago, Ill. Fire-extinguisher. No. 1,293,850; Feb. 11; v. 259; p. 235.
- Mathis, Paul, Brooklyn, N. Y. Water-heating attachment for flues. No. 1,311,702; July 29; v. 264; p. 811.
- Mathis, William R., assignor of one-half to R. Biscorer, Visalia, Calif. Vaporizer. No. 1,300,630; Apr. 15; v. 261; p. 502.
- Mathisen, Martin H., Lankershim, Cal. Traction-wheel. No. 1,290,273; Jan. 7; v. 258; p. 63.
- Mathison, Andrew A., Vontress, Tex. Beet-harvester. No. 1,297,298; Mar. 11; v. 260; p. 369.
- Mathy, Maurice, Flemalle Grande, Belgium. Machine for drawing colored lines on crystal or glass objects. No. 1,298,753; Apr. 1; v. 261; p. 31.
- Mathy, Maurice, Flemalle Grande, Belgium. Grinding-tool. No. 1,324,126; Dec. 9; v. 269; p. 214.
- Matlock, Leonard, Ralph, Ark. Airship. No. 1,298,754; Apr. 1; v. 261; p. 32.
- Matoushek, Frank, Colome, S. D. Cultivator. No. 1,300,442; Apr. 15; v. 261; p. 463.
- Matson, Albert. (See Stolpe and Matson.)
- Matson, Carl W., Prairie City, Oreg. Self-propelled sled. No. 1,302,193; Apr. 29; v. 261; p. 880.
- Matson, Henry L., Astoria, Oreg. Automatic train control. No. 1,299,985; Apr. 8; v. 261; p. 338.
- Matsumura, Yoshio, Minami-Katsushika-Gun, Tokyo, Japan. Apparatus for searching and locating subaqueous matter by way of sweeping. No. 1,305,483; June 3; v. 263; p. 48.
- Matter, Albert J., East Orange, N. J. Camera-support. No. 1,295,345; Feb. 25; v. 259; p. 639.
- Matter, Albert J., Portland, Oreg., assignor to The American Salvage Company, New York, N. Y. Submarine salvage vessel. No. 1,321,383; Nov. 11; v. 268; p. 258.
- Matter, Albert J., and F. V. Conley, Portland, Oreg. Silent camera-shutter. No. 1,298,755; Apr. 1; v. 261; p. 32.
- Mattern, Conrad, Norma, N. D. Device for exterminating noxious weeds and grasses. No. 1,322,459; Nov. 18; v. 268; p. 511.
- Mattern, George W., assignor to The Crawford, McGregor and Canby Co., Dayton, Ohio. Golf-club. No. 1,319,233; Oct. 21; v. 267.
- Mattern, Jacob A., Des Moines, Iowa, Fire-escape. No. 1,300,752; Apr. 15; v. 261; p. 528.
- Matteson, Albert L., Battle Creek, Mich. Auxiliary sight-feed. No. 1,295,184; Feb. 25; v. 259; p. 603.
- Matteson, Arthur E., Stockton, Calif. Oil-can. No. 1,307,506; June 24; v. 263; p. 520.
- Matteson, Charles E., and C. W. Bailey, Maud, Okla. Dirigible headlight. No. 1,300,753; Apr. 15; v. 261; p. 528.
- Matteson, George F. (See Chew, Harry I., assignor.)
- Matteson, August E., Gilby, Alberta, Canada. Shell. No. 1,297,216; Mar. 11; v. 260; p. 350.
- Matthaei, Justus W., Ingram, assignor to Armstrong Cork Company, Pittsburgh, Pa. Composition of matter for use as a leather substitute. No. 1,326,681; Dec. 30; v. 269; p. 809.
- Matthes, William, Philadelphia, Pa. Screening device. No. 1,314,826; Sept. 2; v. 266; p. 66.
- Matthew, William H., Zanesville, Ohio. Danger-signal. No. 1,314,088; Aug. 26; v. 265; p. 506.
- Matthewman, Winfred, London, England. Internal-combustion engine. No. 1,317,091; Sept. 23; v. 266; p. 555.
- Matthews, Arthur B., Newark, N. J. Water-kettle. No. 1,322,714; Nov. 25; v. 268; p. 610.
- Matthews, Burtchael Z., assignor to E. N. Miller, Lake Butler, Fla. Suction-pipe fitting. No. 1,326,078; Dec. 23; v. 269; p. 659.
- Matthews, Charles H. and J. E., Dresden, Kans. Means for splicing and stretching fence-wires. No. 1,307,409; June 24; v. 263; p. 502.
- Matthews, Chris, San Pedro, and C. S. Hall, Los Angeles, Calif. Aeroplane. No. 1,307,826; June 24; v. 263; p. 578.
- Matthews Engineering Company, The. (See Cosgray, Mark C., assignor.)
- Matthews, James E., Farrell, Pa. Padlock-guard. No. 1,291,993; Jan. 21; v. 258; p. 529.
- Matthews, Jay E. (See Matthews, Charles H. and J. E.)
- Matthews, John C., Trion, Ga. Cleaning device. No. 1,320,260; Oct. 28; v. 267; p. 604.
- Matthews, Kinchen N. (See Bachman, Hugo J., assignor.)
- Matthews, Leslie, Plainfield, N. J. Score-board. No. 1,313,104; Aug. 12; v. 265; p. 270.
- Matthews, Luther A., et al. (See Jarman, George R., assignor.)
- Matthews, Robertson, Ithaca, N. Y. Liquid-measuring device. No. 1,325,102; Dec. 16; v. 269; p. 460.
- Matthews, T. Raymond, et al. (See Jarman, George R., assignor.)
- Matthews, Thomas C., Denver, Colo. Illuminated sign. No. 1,293,851; Feb. 11; v. 259; p. 235.
- Matthews, Walter G., et al. (See Ward, James J., assignor.)
- Matthews, Willard M., New Bedford, Mass. Direction-indicator. No. 1,295,783; Feb. 25; v. 259; p. 741.
- Matthews, William A., et al. (See Jarman, George R., assignor.)
- Matthies, Robert W., Hammond, Ind. Automobile-brace. No. 1,323,712; Dec. 2; v. 269; p. 91.
- Mattison, Carl L., assignor to Mattison Machine Works, Beloit, Wis. Cutter-head. No. 1,315,734; Sept. 9; v. 266; p. 238.
- Mattison, Eugene G., Pasadena, Calif. Wind-shield shade. No. 1,299,986; Apr. 8; v. 261; p. 338.
- Mattison Machine Works. (See Mattison, Carl L., assignor.)
- Mattison, Richard V., Jr., Upper Dublin township, Montgomery county, Pa. Machine for rolling asbestos-cement composition. No. 1,321,384; Nov. 11; v. 268; p. 258.
- Mattison, Richard V., Jr., Upper Dublin township, Montgomery county, Pa. Mechanism for applying dry color to asbestos-cement sheets. No. 1,326,362; Dec. 30; v. 269; p. 749.
- Mattson, Edward. (See Mattson, Henry and E.)
- Mattson, Henry, Hansboro, N. D. Weed-destroyer. No. 1,313,310; Aug. 19; v. 265; p. 326.
- Mattson, Henry and E., Hutchinson, Minn. Combination hay and manure hook. No. 1,312,703; Aug. 12; v. 265; p. 191.
- Mattson, Lawrence, Stanchfield, Minn. Hay-fork. No. 1,317,882; Oct. 7; v. 267; p. 42.
- Matulaitis, Jonas, Scranton, Pa. Street-car switch. No. 1,294,508; Feb. 18; v. 259; p. 424.
- Matulaitis, Matinszas, Brooklyn, N. Y. Damper-regulator. No. 1,299,755; Apr. 8; v. 261; p. 288.
- Maublanc, Léon, Nantes, France. Artificial hand. No. 1,299,756; Apr. 8; v. 261; p. 288.
- Maucelaire, Louis, Paris, France. Electrical arcing device for lighting and interruption. No. 1,323,304; Dec. 2; v. 269; p. 15.
- Mauger, Louis C. (See Planche, Léon, assignor.)
- Mauk, William A. S., Baltimore, Md. Tire-mold-forming machine. No. 1,320,021; Oct. 28; v. 267; p. 559.
- Maul, Henry C., assignor to The Michigan Stove Company, Detroit, Mich. Combined coal and gas range. No. 1,306,269; June 10; v. 263; p. 228.
- Maul, Henry C., assignor to The Michigan Stove Company, Detroit, Mich. Gas-regulating valve. No. 1,319,782; Oct. 28; v. 267; p. 514.
- Maulden, Arthur O. (See Maulden, Gilbert H. and A. O.)
- Maulden, Gilbert H. and A. O., Kannapolis, N. C. Wheel-chair. No. 1,304,790; May 27; v. 262; p. 537.
- Mauldin, Columbus S., Sulphur Springs, Tex. Measuring-dispenser. No. 1,290,274; Jan. 7; v. 258; p. 63.
- Mauldin, Joseph T., Shawnee, Okla. Garden-plow. No. 1,323,082; Nov. 25; v. 268; p. 679.
- Mauro, Antonio. (See Formiglia and Mauro.)
- Mausby, Leon K. (See Nichols, John H., assignor.)
- Maupin, Frank L., Post, Tex. Demountable wheel-rim. No. 1,292,348; Jan. 21; v. 258; p. 615.
- Maupin, Graves R., assignor to J. Faessler Mfg. Co., Moberly, Mo. Flue expander and flarer. No. 1,322,921; Nov. 25; v. 268; p. 648.
- Maurer, Albert, New York, N. Y. Medal-holder. No. 1,310,803; July 22; v. 264; p. 612.
- Maurer, Albert, Brooklyn, and F. J. von Kaentzel, New York, N. Y. Latch. No. 1,317,092; Sept. 23; v. 266; p. 555.
- Maurer, Erwin, Jamaica, N. Y. Brooder. No. 1,295,346; Feb. 25; v. 259; p. 640.
- Maurer, George, Chicago, Ill. Knife-sharpener. No. 1,324,512; Dec. 9; v. 269; p. 289.
- Maurer, Henry E., Jr., assignor of one-half to H. L. Ide, Springfield, Ill. Apparatus for dispensing liquid. No. 1,308,091; July 1; v. 264; p. 16.
- Maurer, Martin J. C. A., Cowling, Ill. Automatic gate. No. 1,324,127; Dec. 9; v. 269; p. 214.
- Maurer, Tony, Edon, Mont. Power transmission. No. 1,304,081; May 20; v. 262; p. 364.
- Maurey, Eugene. (See De Martino and Maurey.)



- Maurice, John, Ecorse, Mich. Automobile-cover. No. 1,292,501; Jan. 28; v. 258; p. 672.
- Maurice Tauber Company, The. (See Tauber and Schenke, assignors.)
- Maurice, William F. E., Cypress Hills, N. Y. Golf-club attachment. No. 1,320,163; Oct. 28; v. 267; p. 585.
- Mausser, Paul, deceased; P. Eichhorn, administrator, assignor to Waffenfabrik Mauser Aktiengesellschaft, Oberndorf-on-the-Neckar, Germany. Firearm. No. 1,314,886; Sept. 2; v. 266; p. 76.
- Mauss, Wilhelm, Johannesburg, Transvaal, South Africa. Rock-drill. No. 1,303,705; May 13; v. 262; p. 257.
- Mauss, Wilhelm, Johannesburg, Transvaal, South Africa. Percussive engine. No. 1,309,649; July 15; v. 264; p. 369.
- Mauvais, Roy. (See Jackson, James R., assignor.)
- Mauzey, James P., Prosser, Wash. Receiptacle. No. 1,299,369; Apr. 1; v. 261; p. 171.
- Maves, Theodore W., Minneapolis, Minn. Burning out invested models. No. 1,291,588; Jan. 14; v. 258; p. 398.
- Maves, Theodore W., Minneapolis, Minn. Oven for burning out invested models. (Reissue.) No. 14,730; Sept. 30; v. 266; p. 702.
- Maw, Robert, and W. B. McLean, Montreal, Quebec, Canada, assignors, by direct and mesne assignments, to The Universal Machinery Company, Limited. Combined fluid-pressure pump and motor. No. 1,308,436; July 1; v. 264; p. 78.
- Maw, Robert, and W. B. McLean, assignors to The Universal Machinery Company, Limited, Montreal, Quebec, Canada. System of operating vehicles by fluid-pressure. No. 1,320,485; Nov. 4; v. 268; p. 24.
- Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)
- Maxam, Joel A., Denver, Colo. Rotary engine. No. 1,304,497; May 20; v. 262; p. 444.
- Maxfield, Joseph P., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter. No. 1,296,683; Mar. 11; v. 260; p. 231.
- Maxim, Howard F., and G. F. Perham, Locke Mills, Me. Garment-supporter. No. 1,320,486; Nov. 4; v. 268; p. 24.
- Maxim, Hudson, Hopatcong borough, N. J. Position indicator or recorder. No. 1,310,200; July 15; v. 264; p. 469.
- Maxim, Hudson, Hopatcong borough, N. J. Position indicator or recorder. No. 1,310,201; July 15; v. 264; p. 469.
- Maxim, Hudson, Hopatcong, N. J. Propulsion of automobile torpedoes. No. 1,311,984; Aug. 5; v. 265; p. 25.
- Maxim, Hudson, Hopatcong borough, N. J. Roadway and apparatus for its manufacture. No. 1,313,000; Aug. 12; v. 265; p. 250.
- Maxon, Harry R., Muncie, Ind. Combustion of gas. No. 1,291,589; Jan. 14; v. 258; p. 399.
- Maxson, Charles P., West Mystic, Conn. Ship's log. No. 1,301,585; Apr. 22; v. 261; p. 733.
- Maxted, Edward B., Walsall, England. Manufacture of a hydrogen-nitrogen mixture. No. 1,296,992; Mar. 11; v. 260; p. 302.
- Maxted, Edward B., Walsall, England. Process and apparatus for the hydrogenation of oils, fats, and like materials. No. 1,313,407; Aug. 19; v. 265; p. 344.
- Maxville, William R., Vendor, Ark. Combined cotton chopper and cultivator. No. 1,316,316; Sept. 16; v. 266; p. 361.
- Maxwell, Archibald M., Ithaca, N. Y. Photographic camera. No. 1,291,994; Jan. 21; v. 258; p. 529.
- Maxwell, Earl C., Brooklyn, N. Y. Tank for sprinkler systems. No. 1,315,522; Sept. 9; v. 266; p. 201.
- Maxwell, George W., Chicago, Ill. Tractor. No. 1,294,819; Feb. 18; v. 259; p. 496.
- Maxwell, Glea A., assignor of one-half to F. B. Chamberlin, Denver, Colo. Means for applying power to tandem-coupled vehicles and brake mechanism therefor. No. 1,305,228; May 27; v. 262; p. 620.
- Maxwell, James, New York, N. Y. Ladder-stay. No. 1,294,345; Feb. 11; v. 259; p. 350.
- Maxwell, John S., assignor to The Starr Piano Company, Richmond, Ind. Safety-valve. No. 1,293,156; Feb. 4; v. 259; p. 42.
- Maxwell, Richard C., Endicott, N. Y. Printing-frame. No. 1,324,203; Dec. 9; v. 269; p. 229.
- Maxwell, William O., Los Angeles, and H. Schwab, Fellows, Calif.; said Schwab assignor to said Maxwell. Reinforcing drill-pipes. No. 1,302,690; May 6; v. 262; p. 40.
- May, Charles L., Houghton, Mich. Soap-holder. No. 1,305,918; June 3; v. 263; p. 130.
- May, David T., assignor to Western Electric Company, Incorporated, New York, N. Y. High-potential condenser. No. 1,307,507; June 24; v. 263; p. 521.
- May, David T., assignor to Western Electric Company, Incorporated, New York, N. Y. Protective device. No. 1,319,719; Oct. 28; v. 267; p. 502.
- May, David T., assignor to Western Electric Company, Incorporated, New York, N. Y. Protective device. No. 1,319,720; Oct. 28; v. 267; p. 502.
- May Department Stores Company. (See Pokorny, Joseph, assignor.)
- May, Harry E., assignor of one-half to H. Hall and one-fourth to W. D. O'Bannon, Sedalia, Mo. Light-dimmer. No. 1,307,746; June 24; v. 263; p. 563.
- May, Harry E., assignor of one-third to H. Hall, one-fourth to W. D. O'Bannon, and one-twelfth to W. M. May, Sedalia, Mo. Gas-engine. No. 1,313,001; Aug. 12; v. 265; p. 250.
- May, Harry E., assignor of one-third to H. Hall, one-fourth to W. D. O'Bannon, one-twelfth to W. M. May, Sedalia, Mo., and one-twelfth to C. J. McEniry. Gas-engine. No. 1,320,776; Nov. 4; v. 268; p. 78.
- May, James, Richmond Hill, N. Y. Torpedo-catcher. No. 1,322,594; Nov. 25; v. 268; p. 588.
- May, Jesse A., Springfield, assignor of one-eighth to R. C. Bottom and one-eighth to J. O. Milton, Mackville, one-eighth to J. E. Brown, Harrodsburg, and one-eighth to J. T. Skeins, Springfield, Ky. Railway-gate. No. 1,298,537; Mar. 25; v. 260; p. 687.
- May, John E., Ollie, Va. Tie-plate. No. 1,321,225; Nov. 11; v. 268; p. 227.
- May, Louis. (See Porter, Walter S., assignor.)
- May, Robert G., Louisville, Ky. Automobile direction-indicator. No. 1,315,850; Sept. 9; v. 266; p. 260.
- May, William B., Denver, Colo. Phonograph attachment. No. 1,292,349; Jan. 21; v. 258; p. 616.
- May, William M., et al. (See May, Harry E., assignor.)
- Mayab, Seymour E., Nebraska City, Nebr. Music-leaf turner. No. 1,290,770; Jan. 7; v. 258; p. 182.
- Mayberry, Wilkins H., Kennett, Mo. Hay stacking and curing device. No. 1,305,823; June 3; v. 263; p. 112.
- Maybury, Maxwell. (See Hill, Howard H., assignor.)
- Mayeda, Etsuji, New York, N. Y. Ventilator. No. 1,307,449; June 24; v. 263; p. 510.
- Mayer, Abraham, St. Louis, Mo. Arch-support. No. 1,311,240; July 29; v. 264; p. 725.
- Mayer, Alvin, Rhineland, Mo. Spark-plug. No. 1,308,718; July 1; v. 264; p. 130.
- Mayer, Charles P., Elizabeth, N. J., assignor to Rotary Motor Company, Rotary-meter bearing. No. 1,305,824; June 3; v. 263; p. 112.
- Mayer, Fred G., Richmond, Ind., assignor to Starr Piano Company. Spring-motor. No. 1,291,061; Jan. 14; v. 258; p. 277.
- Mayer, Fred J. (See Blaisdell, Robert W., assignor.)
- Mayer, Fred W., Chicago, Ill. Garment-rack. No. 1,301,957; Apr. 29; v. 261; p. 837.
- Mayer, Fred W., Chicago, Ill. Garment-rack. No. 1,316,375; Sept. 16; v. 266; p. 372.
- Mayer, Ignatz. (See Magin, Carl J., assignor.)
- Mayer, Jacques, Berlin, Germany, assignor to Mergenthaler Linotype Company. Apparatus for automatically operating typographical and other selectively-operated machines. No. 1,306,919; June 17; v. 263; p. 380.
- Mayer, Louis, Kaukauna, Wis. Power-hammer guide-head. No. 1,313,002; Aug. 12; v. 265; p. 250.
- Mayer, Max B., San Antonio, Tex. Waterproofing composition and making same. No. 1,326,079; Dec. 23; v. 269; p. 660.
- Mayer, Oscar G., Chicago, Ill. Machine for the treatment of sausage-casings. No. 1,302,194; Apr. 29; v. 261; p. 881.
- Mayer, Virginus A., Wollaston, Mass. Calculator. No. 1,312,797; Aug. 12; v. 265; p. 210.
- Mayer, Walter S. (See Downes and Mayer.)
- Mayer, Walter S. (See Englund and Mayer.)
- Mayer, Walter S., assignor to Electric Service Supplies Company, Philadelphia, Pa. Electric switching mechanism. No. 1,322,922; Nov. 25; v. 268; p. 648.
- Mayer, William G., Pittsburgh, Pa. Truck. No. 1,315,523; Sept. 9; v. 266; p. 201.
- Mayers, Elton F., New York, N. Y. Engine-starter. No. 1,299,370; Apr. 1; v. 261; p. 171.
- Mayers, Fred A., Petersburg, Mich. Kerosene-vaporizer. No. 1,295,916; Mar. 4; v. 260; p. 21.
- Mayes, John H., Charlotte, N. C. Ball-bearing for spindles. No. 1,305,144; May 27; v. 262; p. 603.
- Mayfield, Joseph L. (See Brannon, Virgil C., assignor.)
- Mayhew, Joseph L., Williamstown, Mass. Tool. No. 1,320,777; Nov. 4; v. 268; p. 78.
- Maynard, Arthur H., Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Wire stitching or stapling machine. No. 1,302,402; Apr. 29; v. 261; p. 921.
- Maynard, Ennis A., and P. Stanfield, Whittier, Calif. Furnace. No. 1,306,017; June 10; v. 263; p. 178.
- Maynard, Ernest S., Preston, A. M. Ashcroft, Ashton, and A. E. Fletcher, Preston, England. Combing-machine. No. 1,316,376; Sept. 16; v. 266; p. 373.
- Maynard, Howard E. (See Toaz, Wilber, and Maynard.)
- Maynard, Ornan A., Greenwich, Ohio. Gun-barrel. No. 1,290,840; Jan. 7; v. 258; p. 198.
- Mayner, Charles F., Montebello, Cal. Rotary drilling-tool. No. 1,292,842; Jan. 28; v. 258; p. 754.
- Mayo, Benjamin F., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,301,899; Apr. 29; v. 261; p. 826.
- Mayo, Benjamin F., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. No. 1,322,129; Nov. 18; v. 268; p. 447.



## Alphabetical list of patentees—Continued.

- Mayo, Benjamin F., Salem, assignor of one-half to J. A. Brogan, Lawrence, Mass. Automatic fire-extinguisher. No. 1,323,893; Dec. 2; v. 269; p. 126.
- Mayo, Thomas W., Springfield, Mo. Guard for railway-frogs. No. 1,303,938; May 20; v. 262; p. 338.
- Mayoh, Frank H., Pawtucket, R. I. Lathe broaching attachment. No. 1,319,482; Oct. 21; v. 267; p. 435.
- Mayor, Louis, Château de Montagny s/Lutry, Switzerland. Apparatus for medical treatment by electricity. No. 1,290,628; Jan. 7; v. 258; p. 148.
- Mays Accounting Machine Company. (See Mays, James F., assignor.)
- Mays, James F., Birmingham, Ala., assignor to Mays Accounting Machine Company, Lexington, N. C. Quotient-registering mechanism for calculating-machines. No. 1,297,711; Mar. 18; v. 260; p. 485.
- Mays, James F., Birmingham, Ala., assignor to Mays Accounting Machine Company, Lexington, N. C. Calculating-machine. No. 1,301,073; Apr. 15; v. 261; p. 599.
- Mays, James F., Birmingham, Ala., assignor to Mays Accounting Machine Company, Lexington, N. C. Calculating-machine. No. 1,309,535; July 8; v. 264; p. 310.
- Mays, James F., Birmingham, Ala., assignor to Mays Accounting Machine Company, Lexington, N. C. Quotient mechanism for computing-machines. No. 1,309,536; July 8; v. 264; p. 310.
- Mays, James F., Birmingham, Ala., assignor to Mays Accounting Machine Company, Lexington, N. C. Overthrow-check for calculating-machines. No. 1,315,144; Sept. 2; v. 266; p. 122.
- Mays, James F., Birmingham, Ala., assignor to Mays Accounting Machine Company, Lexington, N. C. Actuating mechanism for calculating-machines. No. 1,323,894; Dec. 2; v. 269; p. 126.
- Mayse, Henry F., Girvin, Tex. Shade and curtain holder. No. 1,297,886; Mar. 18; v. 260; p. 522.
- Mayse, Henry F., Girvin, Tex. Trap. No. 1,326,080; Dec. 23; v. 269; p. 660.
- Maytag Company, The. (See Snyder, Howard E., assignor.)
- Mazer Acoustile Company. (See Mazer, Jacob, assignor.)
- Mazer, Jacob, Pittsburgh, assignor to Mazer Acoustile Company, Philadelphia, Pa. Acoustic element. No. 1,318,574; Oct. 14; v. 267; p. 236.
- Mazzeo, Salvatore, assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Head-lamp. No. 1,313,716; Aug. 19; v. 265; p. 402.
- Mazzocchi, Nicholas V., New York, N. Y. Gas-burner. No. 1,314,686; Sept. 2; v. 266; p. 41.
- McAdam, Alfred B., Moose Jaw, Saskatchewan, Canada. Heating system. No. 1,320,640; Nov. 4; v. 268; p. 52.
- McAdams, George F., Brooklyn, N. Y. Paper-ruling machine. No. 1,302,571; May 6; v. 262; p. 17.
- McAdams, George F., Brooklyn, N. Y. Counting device for web-sheet-cutting machines. No. 1,321,468; Nov. 11; v. 268; p. 274.
- McAdams, John B. (See Fanning and McAdams.)
- McAdams, Thomas J., St. Louis, Mo. Combination-tool. No. 1,324,509; Dec. 9; v. 269; p. 289.
- McAddie, Alexander G., Milton, Mass. Absolute hydrograph. No. 1,309,531; July 8; v. 264; p. 309.
- McAdoo, Benjamin H., Boston, Pa. Attaching device. No. 1,293,137; Feb. 4; v. 259; p. 38.
- McAfee, Almer M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Improving oils. No. 1,326,072; Dec. 23; v. 269; p. 658.
- McAfee, Almer M., New York, N. Y., assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacture of high-grade low-boiling petroleum products. No. 1,326,073; Dec. 23; v. 269; p. 658.
- McAfee, Daniel S., New York, N. Y., assignor to The Dorr Company. Treating fine ores. No. 1,305,817; June 3; v. 263; p. 111.
- McAfee, Daniel S., New York, N. Y., assignor to The Dorr Company. Recovering alkali used in pulp digestion. No. 1,308,184; July 1; v. 264; p. 33.
- McAllister, Fred, Niagara, N. D. Trace-holder. No. 1,321,138; Nov. 11; v. 268; p. 210.
- McAllister, Robert L., Shenandoah, assignor to Shores-Mueller Company, Cedar Rapids, Iowa. Drenching-bit for animals. No. 1,311,409; July 29; v. 264; p. 757.
- McAllister, Cyrus A. (See Hodges, Allan R., assignor.)
- McAllister, William H., Gainesville, Tex. Railway right-of-way-moving device. No. 1,311,825; July 29; v. 264; p. 834.
- McAlpine, George L., Catford, assignor to John J. Griffin & Sons, Limited, London, England. Firing mechanism or fuse for explosive bodies. No. 1,316,491; Sept. 16; v. 266; p. 395.
- McAnally, Samuel G., Hull, Quebec, Canada. Manufacture of bricks and furnace-linings from dead-burned magnesite. No. 1,305,475; June 3; v. 263; p. 46.
- McAndrew, John. (See Jardin, Albert A., assignor.)
- McArdle, Fred W., Boston, Mass. Furniture. No. 1,306,268; June 10; v. 263; p. 228.
- McArthur, Charles D., Pittsburgh, Pa., assignor to Blaw Steel Construction Company. Form for concrete conduit constructions. No. 1,291,042; Jan. 14; v. 258; p. 272.
- McArthur, Charles D., Pittsburgh, assignor to Blaw Steel Construction Company, Hoboken, Pa. Concrete fence. No. 1,293,138; Feb. 4; v. 259; p. 38.
- McArthur, Clyde E. (See Schmidt and McArthur.)
- McArthur, Cyrus W., Denver, Colo. Dewatering, classifying, and rabbling apparatus for ore-pulp. No. 1,304,077; May 20; v. 262; p. 363.
- McArthur, George, Bayonne, N. J. Rivet club-dolly. No. 1,326,518; Dec. 30; v. 269; p. 779.
- McAtee, Otho R., et al. (See Norman, Frank, assignor.)
- McAtee, William A., et al. See Norman, Frank, assignor.)
- McAulay, George, Rumford Falls, Me., assignor to International Paper Company. Paper-making machine. No. 1,296,299; Mar. 4; v. 260; p. 110.
- McAuley, Joseph A., West New York, N. Y. Attaching means for removable dentures. No. 1,297,199; Mar. 11; v. 260; p. 346.
- McAuliffe, John W., New Rochelle, N. Y. Bath-tub. No. 1,293,829; Feb. 11; v. 259; p. 230.
- McAuliffe, John W., Pelham, N. Y. Drinking-tube for liquid-containers. No. 1,309,994; July 15; v. 264; p. 432.
- McAuliffe, John W., Pelham, N. Y. Cigar with self-contained holder. No. 1,312,490; Aug. 5; v. 265; p. 120.
- McBean, Duncan D., New York, N. Y., assignor of one-half to A. H. Graves, Chicago, Ill. Method and apparatus for controlling hill and embankment slides. No. 1,323,884; Dec. 2; v. 269; p. 124.
- McBreairty, John, Dickey, Me. Spring-wheel. No. 1,297,881; Mar. 18; v. 260; p. 521.
- McBride, Edward L., St. Louis, Mo. Cook-stove. No. 1,301,582; Apr. 22; v. 261; p. 733.
- McBride, Edward L., St. Louis, Mo. Portable oven. No. 1,319,401; Oct. 21; v. 267; p. 419.
- McBride, Hiram Y., Artesia, N. Mex., assignor to The United States Wool Company, Denver, Colo. Treating wool. No. 1,323,641; Dec. 2; v. 269; p. 78.
- McBride, Hiram Y., Artesia, N. Mex. Machine for treating wool. No. 1,323,885; Dec. 2; v. 269; p. 124.
- McBride, Howard S., New York, N. Y. Decorative lighting. No. 1,314,966; Sept. 2; v. 266; p. 90.
- McBride, James P., Seattle, Wash. Plate-tightening device. No. 1,304,895; May 27; v. 262; p. 556.
- McBride, Thomas C., Philadelphia, Pa. Surface condenser. No. 1,311,239; July 29; v. 264; p. 725.
- McCa, David G., Lancaster, Pa. Controlling apparatus for wireless telephone systems. No. 1,304,188; May 20; v. 262; p. 383.
- McCabe, Allan E., Richmond, Va. Water-heater for oil-stoves. No. 1,310,709; July 22; v. 264; p. 593.
- McCabe, Edward F., Maplewood, N. J. Elbow-coupling. No. 1,320,785; Nov. 4; v. 268; p. 80.
- McCabe, Frank A., Blackfoot, Mont. Puzzle. No. 1,302,188; Apr. 29; v. 261; p. 879.
- McCabe, Julius D., Coraopolis, Pa. Cup-filling device. No. 1,296,300; Mar. 4; v. 260; p. 110.
- McCadden, George, St. Cloud, Minn. Skeleton adjustable piston. No. 1,302,572; May 6; v. 262; p. 17.
- McCaffrey, Harry J., and E. J. Roberge, Dallas, Tex. Brake-band clencher. No. 1,307,013; June 17; v. 263; p. 398.
- McCaffrey, Peter F., Spokane, Wash. Siphon flush-valve. No. 1,302,820; May 6; v. 262; p. 64.
- McCaig, Harry and W. C. Stevenson, Cement, Cal. Volumetric feed-gate. No. 1,295,540; Feb. 25; v. 259; p. 685.
- McCaig, Harry, and W. C. Stevenson, Cement, Calif. Apparatus for preheating uncalcined material prior to its entry into the kiln. No. 1,303,088; May 6; v. 262; p. 116.
- McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Cooling-fan. No. 1,292,830; Jan. 28; v. 258; p. 751.
- McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,312,555; Aug. 12; v. 265; p. 162.
- McCain, Jane H., Roy, Mont. Dish-washing machine. No. 1,292,497; Jan. 28; v. 258; p. 671.
- McCain, Joseph H., Philadelphia, Pa. Ammonia-compressor. No. 1,308,288; July 1; v. 264; p. 52.
- McCain, Robert E., Chicago, Ill. Garment-supporter. No. 1,320,641; Nov. 4; v. 268; p. 53.
- McCain, Walter W., Orem, Utah. Gearless differential. No. 1,313,396; Aug. 19; v. 265; p. 342.
- McCain, William M., Chicago, Ill. Sheet-feeding machine. No. 1,297,707; Mar. 18; v. 260; p. 484.
- McCall, Edward T. (See Dods, James H., assignor.)
- McCamant, John H., Gallup, N. Mex. Calf-weaner. No. 1,325,795; Dec. 23; v. 269; p. 607.
- McCandlish, William H., London, and A. B. Robson, county of Hertford, assignors to Sahulite (Great Britain) Limited, London, England. Compressor for bundled explosive material. No. 1,297,375; Mar. 18; v. 260; p. 414.
- McCann, Ferdinand. (See Taylor, Frederick C., assignor.)
- McCann, John J., assignor to John J. McCann Company, Incorporated, Burlington, N. J. Apparatus for cutting sockets in artificial limbs. No. 1,294,683; Feb. 18; v. 259; p. 465.
- McCann, John J., assignor to John J. McCann Company, Incorporated, Burlington, N. J. Apparatus for boring artificial limbs. No. 1,294,684; Feb. 18; v. 259; p. 465.



- McCann, Joseph A., assignor of one-half to R. W. McKinney, Paducah, Ky. Brake-shoe. No. 1,324,603; Dec. 9; v. 269; p. 306.
- McCann, Joseph J., Cincinnati, Ohio. Boiler-coupling. No. 1,321,235; Nov. 11; v. 268; p. 229.
- McCann, Joseph W., Washington, D. C. Reversible cover and detachable fastener therefor. No. 1,318,094; Oct. 7; v. 267; p. 82.
- McCann, Michael, New York, N. Y., assignor to Frederick Osann Company. Work-holder for sewing-machines. No. 1,294,927; Feb. 18; v. 259; p. 522.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,322,316; Nov. 18; v. 268; p. 483.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,322,317; Nov. 18; v. 268; p. 483.
- McCann, Ronald A., assignor to Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,324,200; Dec. 9; v. 269; p. 228.
- McCann, Terence F. (See George, Albert F., assignor.)
- McCanna, Benjamin T., and E. R. Klemm, Chicago, Ill. Gas-engine governor and auxiliary air-inlet. No. 1,298,068; Mar. 25; v. 260; p. 586.
- McCargar, Lorren B., Kansas City, assignor to W. P. Fulkerson, St. Joseph, Mo. Feed-cutting mill. No. 1,311,826; July 29; v. 264; p. 834.
- McCarrell, William A., Milwaukee, Wis., assignor to Allinmesh Transmission Company, Springfield, Mass. Transmission mechanism. No. 1,317,376; Sept. 30; v. 266; p. 645.
- McCarren, Joseph G., Rockford, Ill. Pot for use in annealing and carbonizing metal. No. 1,306,601; June 10; v. 263; p. 288.
- McCarroll, Paul J. M., Boston, Mass., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,319,167; Oct. 21; v. 267; p. 375.
- McCarthy, Daniel P., Paris, Ill. Voting-machine. No. 1,307,913; June 24; v. 263; p. 594.
- McCarthy, Edward F., Chicago, Ill., assignor to Vacuum Machinery Co., Marinette, Wis. Hydro-turbine vacuum-pump. No. 1,296,828; Mar. 11; v. 260; p. 263.
- McCarthy, Florence, assignor of one-half to J. Wile, New York, N. Y. Apparatus for enveloping mailing-matter. No. 1,305,390; June 3; v. 263; p. 30.
- McCarthy, Patrick, Brooklyn, N. Y. Vehicle-thief-indicating sign. No. 1,315,374; Sept. 9; v. 266; p. 175.
- McCarthy, Patrick J. (See Finnegan and McCarthy.)
- McCarthy, Thomas A., Barrie, Ontario, Canada. Mechanical calculator. No. 1,302,941; May 6; v. 262; p. 87.
- McCartney, Leslie C., Lincoln, Nebr. Stock-fountain. No. 1,309,208; July 8; v. 264; p. 249.
- McCarty, Edwin R., Gilgandra, New South Wales, Australia. Plowshare. No. 1,323,480; Dec. 2; v. 269; p. 49.
- McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Means for lubricating machine-tools. No. 1,291,043; Jan. 14; v. 258; p. 272.
- McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Means for lubricating machine-tools. No. 1,293,611; Feb. 4; v. 259; p. 147.
- McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Horizontal boring, drilling, milling, and tapping machine. No. 1,302,395; Apr. 29; v. 261; p. 919.
- McCarty, William F., assignor to Defiance Machine Works, Defiance, Ohio. Drill-press. No. 1,303,089; May 6; v. 262; p. 116.
- McCarty, William H., Chicago, Ill. Gate-closer. No. 1,305,659; June 3; v. 263; p. 82.
- McCaskell, Jasper A., Salt Lake City, Utah. Shock-absorber. No. 1,301,067; Apr. 15; v. 261; p. 597.
- McCaskell, Jasper A., Salt Lake City, Utah. Distillation of hydrocarbons from oil-shale. No. 1,317,514; Sept. 30; v. 266; p. 672.
- McCasky, Alfred S., Chicago, Ill. Flexible shaft. No. 1,314,600; Sept. 2; v. 266; p. 24.
- McCasky, Alfred S., Chicago, Ill. Flexible shaft. No. 1,314,601; Sept. 2; v. 266; p. 24.
- McCasky Register Company, The. (See Aiken, Ebenezer N., assignor.)
- McCasky Register Company, The. (See Beaven, Frederick, assignor.)
- McCasky Register Company, The. (See Devers, Clyde E., assignor.)
- McCasky Register Company, The. (See Hick, Harry J., assignor.)
- McCasky Register Company, The. (See Lyons, Edgar S., assignor.)
- McCasky Register Company, The. (See Pollock and Hick, assignors.)
- McCasky Register Company, The. (See Silvius, Ellis T., assignor.)
- McCaskie, Walter W., assignor of one-half to B. K. Dutton, Hibbing, Minn. Stoker. No. 1,323,401; Dec. 2; v. 269; p. 34.
- McCaslin, Harry M., assignor to American La France Fire Engine Co., Inc., Elmira, N. Y. Fire-extinguisher. No. 1,291,044; Jan. 14; v. 258; p. 272.
- McCaslin, William L., McCune, Kans. Wagon-brake. No. 1,294,286; Feb. 11; v. 259; p. 337.
- McCaughy, Albert E., Birmingham, Wash. Water-motor. No. 1,291,963; Jan. 21; v. 258; p. 522.
- McCaughrey, Lawrence W., New York, N. Y. Priming-cup for internal-combustion engines. No. 1,291,575; Jan. 14; v. 258; p. 395.
- McCaughrin, Silas J., Birmingham, and E. W. Bullard, Aniston, Ala. Calendaring-machine for spinning-rolls. No. 1,304,582; May 27; v. 262; p. 499.
- McCauley, Edward J., Philadelphia, Pa. Roller-supporting device. No. 1,306,155; June 10; v. 263; p. 204.
- McCauley, Joseph J., Uhrichsville, Ohio. Cigar-bunching machine. No. 1,302,396; Apr. 29; v. 261; p. 920.
- McCauley, Mary J., Edina, Mo. Fruit-drier. No. 1,292,831; Jan. 28; v. 258; p. 751.
- McCauley, Robert E., Wilkinsburg, Pa., assignor of one-half to Illinois-Pacific Glass Company. Mold-loading device. No. 1,322,318; Nov. 18; v. 268; p. 483.
- McCauley, Charles G., Washington, D. C. Adjustable rail-brace. No. 1,312,264; Aug. 5; v. 265; p. 76.
- McCaw, Wallace E., assignor to The Procter and Gamble Company, Cincinnati, Ohio. Preparation of cotton-seed for milling. No. 1,293,830; Feb. 11; v. 259; p. 230.
- McClain, Frank L. (See West, George W., assignor.)
- McClain, Hugh F., Protection, Kans. Gun-loading device. No. 1,304,583; May 27; v. 262; p. 499.
- McClain, Jamesie E., Tempe, Ariz. Ditch builder and cleaner. No. 1,295,996; Mar. 4; v. 260; p. 40.
- McClain, John M., Spokane, Wash. Bed-bottom. No. 1,321,119; Nov. 11; v. 268; p. 207.
- McClain, John R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wood veneer. No. 1,299,747; Apr. 8; v. 261; p. 286.
- McClain, William J., Jr., Bellaire, Ohio. Paving-brick. No. 1,314,278; Aug. 26; v. 265; p. 543.
- McClatchy, Albert H., Baltimore, Md. Book-cover protector. No. 1,311,983; Aug. 5; v. 265; p. 25.
- McClave-Brooks Company. (See McClave, William, assignor.)
- McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Furnace construction. No. 1,318,579; Oct. 14; v. 267; p. 23.
- McClave, William R., assignor to McClave-Brooks Company, Scranton, Pa. Furnace construction. No. 1,318,580; Oct. 14; v. 267; p. 237.
- McClay, Clarence G. (See Jackson, George, assignor.)
- McCleary, Alvah H., Detroit, Mich. Shackle for springs. No. 1,326,757; Dec. 30; v. 269; p. 824.
- McClellan, Benjamin S., Chicago, Ill. Expansion-valve. No. 1,300,182; Apr. 8; v. 261; p. 381.
- McClellan, Benjamin S., Chicago, Ill. Journal-bearing and compressor provided therewith. No. 1,320,703; Nov. 4; v. 268; p. 64.
- McClellan, Edward J., New York, N. Y., assignor to The Garvin Machine Co., Chuck. No. 1,305,138; May 27; v. 262; p. 602.
- McClelland, John, Kansas City, Mo. Ventilator. No. 1,301,858; Apr. 29; v. 261; p. 818.
- McClelland, Thomas C., Malvern, Victoria, Australia. Fitting for joining up electrical conduits. No. 1,295,776; Feb. 25; v. 259; p. 739.
- McClelland, William H., Jr., Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit-breaker. No. 1,314,883; Sept. 2; v. 266; p. 76.
- McClelland, William H., Jr., Wilkinsburg, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,314,884; Sept. 2; v. 266; p. 76.
- McClenathan, Robert, Cuyahoga Falls, Ohio, assignor to Kelly-Springfield Tire Company, New York, N. Y. Machine for winding up strips of sticky material. No. 1,303,821; May 13; v. 262; p. 279.
- McClenathan, Robert, Cuyahoga Falls, Ohio, assignor to Kelly-Springfield Tire Co., New York, N. Y. Machine for and process of forming rubber tires. No. 1,312,491; Aug. 5; v. 265; p. 120.
- McClenathan, Robert, Cuyahoga Falls, Ohio, assignor to Kelly-Springfield Tire Co., New York, N. Y. Inner-tube deflator. No. 1,313,603; Aug. 19; v. 265; p. 381.
- McClenathan, Robert, Cuyahoga Falls, Ohio, assignor to Kelly-Springfield Tire Co., New York, N. Y. Flap-finishing machine. No. 1,321,139; Nov. 11; v. 268; p. 210.
- McClenathan, Robert M., Cuyahoga Falls, and G. B. Hefflinger, Akron, Ohio, assignor to Kelly-Springfield Tire Co., New York, N. Y. Rim-coating machine. No. 1,326,357; Dec. 30; v. 269; p. 748.
- McClintock, Alma, West Salem, Wis. Skirt-gage. No. 1,295,336; Feb. 25; v. 259; p. 637.
- McClintock, Charles C., Los Angeles, Calif. Fomentation-tank. No. 1,314,681; Sept. 2; v. 266; p. 40.
- McClintock, J. M. (See Cheney, Fred, assignor.)
- McClintock-Loomis Company. (See Adams and Roach, assignors.)
- McCloskey, Alfred C., Philadelphia, Pa. Collar-form. No. 1,317,803; Oct. 7; v. 267; p. 27.
- McCloskey, Frederick W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Field-magnet for dynamo-electric machines. No. 1,292,621; Jan. 28; v. 258; p. 702.



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- McClosky, George J., Washington, D. C. Control mechanism for motor-vehicles. No. 1,299,748; Apr. 8; v. 261; p. 286.
- McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Automatic fire-shutter. No. 1,325,524; Dec. 23; v. 269; p. 556.
- McCloud, W. C. (See Crumpton, Enoch M., assignor.)
- McCloy, Ephraim, Brooklyn, N. Y. Spark-plug. No. 1,295,337; Feb. 25; v. 259; p. 637.
- McCluer, Anna T., New York, assignor of one-half to J. R. Taylor, Brooklyn, N. Y. Educational appliance. No. 1,291,045; Jan. 14; v. 258; p. 272.
- McClung, Miles B., McClungs, W. Va. Picture-hanger. No. 1,304,337; May 20; v. 262; p. 412.
- McClure, Alexander C., Paducah, Ky. Wheel-flange lubricating device. No. 1,317,449; Sept. 30; v. 266; p. 659.
- McClure, Benjamin C., Scarsdale, N. Y. Rod-packing. No. 1,325,950; Dec. 23; v. 269; p. 635.
- McClure, Benjamin C., Forest Hills Gardens, N. Y., assignor to H. W. Johns-Manville Company. Rod-packing. No. 1,321,930; Nov. 18; v. 268; p. 411.
- McClure, Benjamin C., Scarsdale, N. Y., assignor to H. W. Johns-Manville Company. Rod-packing. No. 1,325,876; Dec. 23; v. 269; p. 622.
- McClure, Daniel K., Jr., Los Angeles, Cal. Multiple stamp. No. 1,294,132; Feb. 11; v. 259; p. 301.
- McClure, Edward H., Yampa, Colo. Dirigible headlight attachment. No. 1,318,504; Oct. 14; v. 267; p. 222.
- McClure, Francis L., *et al.* (See Curtis, Jesse T., assignor.)
- McClure, George E., Detroit, Mich. Coat-hanger. No. 1,324,679; Dec. 9; v. 269; p. 320.
- McClure, John, Glenside, Pa. Inking mechanism for printing-presses. No. 1,296,098; Mar. 4; v. 260; p. 64.
- McClure, John H., Detroit, Mich. Automobile-lock. No. 1,296,301; Mar. 4; v. 260; p. 110.
- McClure, Ora D., Ishpeming, Mich. Steel framing for mine-shafts. No. 1,294,814; Feb. 18; v. 259; p. 495.
- McClure, Rodney N., Los Angeles, Calif. Direction-indicator for motor-vehicles. No. 1,320,566; Nov. 4; v. 268; p. 39.
- McClure, William H., Republic, Kans. Mowing-machine. No. 1,294,133; Feb. 11; v. 259; p. 301.
- McClure, William H., Republic, Kans. Power mowing-machine. No. 1,295,338; Feb. 25; v. 259; p. 638.
- McClure, Royal A., C. H. Reeves, and W. W. Boulton, assignors, by mesne assignments, to Universal Elevated Railway Company, Incorporated, Seattle, Wash. Elevated-railway track. No. 1,316,732; Sept. 23; v. 266; p. 489.
- McClure, Royal A., H. R. Stevens, and W. W. Boulton, assignors, by mesne assignments, to Universal Elevated Railway Company, Incorporated, Seattle, Wash. Truck for elevated railways. No. 1,317,377; Sept. 30; v. 266; p. 645.
- McClymonds, John R., Elwood City, Pa. Mail-box. No. 1,309,328; July 8; v. 264; p. 272.
- McColl, Francis P., Ridgewood, N. J., and W. W. Willison, assignors to Thermokept Products Corporation, New York, N. Y. Canning and can. No. 1,302,189; Apr. 29; v. 261; p. 880.
- McCollough, William A., Webster City, Iowa. Duplex stock-fountain. No. 1,303,569; May 13; v. 262; p. 232.
- McColum, Alfred F., assignor to Magee Carpet Company, Bloomsburg, Pa. Knife-carriage for pile-cutting attachments. No. 1,322,916; Nov. 25; v. 268; p. 647.
- McColum, Alfred F., assignor of three-fifths to James Magee, 2d, Bloomsburg, Pa. Bobbin-winder. No. 1,317,515; Sept. 30; v. 266; p. 672.
- McColum, Alfred F., assignor of three-fifths to J. Magee, 2d, Bloomsburg, Pa. Presser-foot. No. 1,325,365; Dec. 16; v. 269; p. 509.
- McColum, Earl E., Downers Grove, Ill. Internal-combustion engine. No. 1,290,263; Jan. 7; v. 258; p. 60.
- McColum, Earl E., Downers Grove, Ill. Internal-combustion engine. No. 1,305,728; June 3; v. 263; p. 94.
- McColum, Earl E., Downers Grove, Ill. Speed-reduction mechanism for meters. No. 1,310,760; July 22; v. 264; p. 603.
- McColum, James H. K., Toronto, Ontario, Canada, assignor to G. H. Gooderham, J. W. L. Forster, and The Argylls Limited, Alexandria, Scotland. Internal-combustion engine. No. 1,310,667; July 22; v. 264; p. 586.
- McCombe, George A., assignor to The Hartford Automotive Parts Company, Hartford, Conn. Universal joint. No. 1,307,743; June 24; v. 263; p. 563.
- McCombs, Orville K., Galveston, Tex. Automatic firing device for explosive shells. No. 1,290,763; Jan. 7; v. 258; p. 181.
- McConall, James, Detroit, Mich. Hanger. No. 1,292,956; Jan. 28; v. 258; p. 781.
- McConnell, Charles D., Oskaloosa, Iowa. Compass for automobiles. No. 1,317,086; Sept. 23; v. 266; p. 554.
- McConnell, Henry K. (See Mewborne and McConnell.)
- McConnell, James W., Washington, D. C., assignor to the Government of the United States. Spray-nozzle. No. 1,296,542; Mar. 4; v. 260; p. 162.
- McConnell, John, Chicago, Ill. Manufacturing electric steel. No. 1,318,164; Oct. 7; v. 267; p. 96.
- McConnell, Lert, Grand River, Iowa. Cattle-guard. No. 1,312,793; Aug. 12; v. 265; p. 209.
- McConnell, Thomas, New Kensington, Pa. Vacuum apparatus. No. 1,314,409; Aug. 26; v. 265; p. 569.
- McConnell, William, Philadelphia, Pa. Vehicle-fender. No. 1,317,087; Sept. 23; v. 266; p. 534.
- McConnell, Winton W. (See Seymour, John K., assignor.)
- McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
- McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
- McConway & Torley Company, The. (See Kelso, Joseph, assignor.)
- McConway & Torley Company, The. (See Kelso, William, assignor.)
- McConway & Torley Company, The. (See McConway William, Jr., assignor.)
- McConway & Torley Company, The. (See McConway and Kelso, assignors.)
- McConway & Torley Company, The. (See Milliken, Isaac H., assignor.)
- McConway & Torley Company, The. (See Milliken and Regan, assignors.)
- McConway, William, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,294,287; Feb. 11; v. 259; p. 337.
- McConway, William, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car-coupling. No. 1,294,288; Feb. 11; v. 259; p. 337.
- McConway, William, Jr., and W. Kelso, assignors to The McConway & Torley Company, Pittsburgh, Pa. Transition car-coupling. No. 1,309,293; July 8; v. 264; p. 265.
- McCool, Edward F., Victor, Colo. Classifier. No. 1,310,917; July 22; v. 264; p. 632.
- McCool, Edward F., Victor, Colo. Latch for grinding-mills. No. 1,321,540; Nov. 11; v. 268; p. 287.
- McCord, Alvin C., assignor to McCord and Company, Chicago, Ill. Journal-box. No. 1,299,845; Apr. 8; v. 261; p. 309.
- McCord, Arthur W., Washington, D. C. Soap-dispenser. No. 1,305,476; June 3; v. 263; p. 46.
- McCord, Charles J., Merrill, Wis. Spring-wheel. No. 1,305,558; June 3; v. 263; p. 62.
- McCord, Charles J., Alpha, Mich. Spring-wheel. No. 1,309,532; July 8; v. 264; p. 310.
- McCord and Company. (See McCord, Alvin C., assignor.)
- McCord and Company. (See Randel, Ivar A., assignor.)
- McCord and Company. (See Schlacks, William J., assignor.)
- McCord Manufacturing Company. (See Schlacks, Joseph T., assignor.)
- McCord, William A., Haskell, Okla. Music-sheet cabinet. No. 1,294,685; Feb. 18; v. 259; p. 465.
- McCorkle, Francis N., Athens, Ga. Cotton-harvester. No. 1,291,652; Jan. 14; v. 258; p. 414.
- McCormack, Johnston. (See Cockran and McCormack.)
- McCormack, Orloff L., Norwood, Ohio. Flagstaff. No. 1,302,190; Apr. 29; v. 261; p. 880.
- McCormack, William D., Nashville, Tenn. Attachment for aircraft to render same invisible. No. 1,297,882; Mar. 18; v. 260; p. 521.
- McCormack, William D., Nashville, Tenn. Inclinator for use on aircraft. No. 1,308,795; July 8; v. 264; p. 172.
- McCormick & Co. (See Boyles, Frank M., assignor.)
- McCormick, Frank L., assignor to The Rudolph Wurlitzer Manufacturing Company, North Tonawanda, N. Y. Double-tracker musical instrument. No. 1,312,917; Aug. 12; v. 265; p. 233.
- McCormick, John, Northville, S. D. Door-hook. No. 1,291,576; Jan. 14; v. 258; p. 395.
- McCormick, John H., assignor to S. P. Bush, Columbus, Ohio. Draw-gear and buffing apparatus. No. 1,319,883; Oct. 28; v. 267; p. 533.
- McCormick, Joseph A., Chicago, Ill., assignor to J. H. McLaughlin, Limited, Toronto, Ontario, Canada. Soda-water draft arm and faucet. No. 1,295,541; Feb. 25; v. 259; p. 686.
- McCormick, Langdon, New York, N. Y. Apparatus for controlling light effects. No. 1,291,964; Jan. 21; v. 258; p. 522.
- McCormick, Langdon, New York, N. Y. Making photographs. No. 1,294,686; Feb. 18; v. 259; p. 466.
- McCormick, Langdon, New York, N. Y. Theatrical appliance. No. 1,324,680; Dec. 9; v. 269; p. 321.
- McCormick, Samuel L., Pittsburgh, Pa., and W. F. Reese, Warren, Ohio. Method and machinery for forming strip metal. No. 1,294,501; Feb. 18; v. 259; p. 423.
- McCormick, William C., Granbury, Tex. Switch-locking device. No. 1,297,200; Mar. 11; v. 260; p. 347.
- McCoubrey, Hammond B. (See Paradis and McCoubrey.)
- McCourt, Cyril D., London, England, assignor, by mesne assignments, to Surface Combustion, Inc., Wilmington, Del. Calcining or treating granular material. No. 1,291,965; Jan. 21; v. 258; p. 523.
- McCourt, James J., Lansing, Mich. Ice-cream freezer. No. 1,293,139; Feb. 4; v. 259; p. 38.
- McCowan, William L. (See Vincent and McCowan.)
- McCoy, Herbert N., assignor to Carnotite Reduction Company, Chicago, Ill. Recovering radium. No. 1,292,341; Jan. 21; v. 258; p. 614.



- McCoy, James D., Boston, Mass., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,290,764; Jan. 7; v. 258; p. 181.
- McCoy, James D., Boston, Mass., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,290,765; Jan. 7; v. 258; p. 181.
- McCoy, James P. A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Molded electric conductor and making the same. No. 1,299,846; Apr. 8; v. 261; p. 309.
- McCoy, James P. A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Molded composition and making the same. No. 1,299,847; Apr. 8; v. 261; p. 309.
- McCoy, James P. A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Molding composition. No. 1,300,218; Apr. 8; v. 261; p. 389.
- McCoy, James P. A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Plastic composition. No. 1,317,204; Sept. 30; v. 266; p. 613.
- McCoy, James P. A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coating metals with mercury. No. 1,324,835; Dec. 16; v. 269; p. 411.
- McCoy, Robert, New York, N. Y. Horseshoe. No. 1,298,364; Mar. 25; v. 260; p. 649.
- McCoy, Wilber A., Pittsburgh, Pa. Roller-skating track. No. 1,325,026; Dec. 16; v. 269; p. 446.
- McCoy, William D., Brooklyn, N. Y. Seed-cotton opener, cleaner, and feeder. No. 1,318,215; Oct. 7; v. 267; p. 106.
- McCracken, G. W. (See Hemphill, Eli M., assignor.)
- McCracken, Isaac E., Pittsburgh, Pa., assignor to Gleason Works, Rochester, N. Y. Method of and machine for cutting gears. No. 1,310,761; July 22; v. 264; p. 603.
- McCracken, Walter L. (See Warren, John R., assignor.)
- McCrath, Benjamin F., Lark, N. D. Alligator-wrench. No. 1,304,584; May 27; v. 262; p. 499.
- McCrath, John, Lark, N. D. Adjustable S-wrench. No. 1,321,236; Nov. 11; v. 268; p. 229.
- McCrary, Pierce R., Lakeland, Fla., assignor of one-half to C. H. R. Woodward, Portsmouth, N. H. Making drain-tiles. No. 1,314,279; Aug. 26; v. 265; p. 543.
- McCray, Harry F., Reno, Nev. Sparking device for explosive-engines. No. 1,312,638; Aug. 12; v. 265; p. 179.
- McCray, Thomas, Haylow, Ga. Tool. No. 1,303,090; May 6; v. 262; p. 116.
- McCrea, Allingham E., Omaha, Nebr. Apparatus for growing plants. No. 1,315,375; Sept. 9; v. 266; p. 175.
- McCready, Charles T., Onley, Va. Vine-cutter. No. 1,319,780; Oct. 28; v. 267; p. 514.
- McCreary, Alfred W., Mount Pleasant, Pa. Fertilizer-distributor. No. 1,308,714; July 1; v. 264; p. 130.
- McCreary, Walter E., Altoona, Pa. Automobile magneto contact. No. 1,312,794; Aug. 12; v. 265; p. 209.
- McCreery, Charles S., De Soto, Mo. Shield. No. 1,326,074; Dec. 23; v. 269; p. 659.
- McCrillis, Jasper, Modale, Iowa. Head-rest. No. 1,298,235; Mar. 25; v. 260; p. 622.
- McCroskey, Philip S., Netawaka, Kans. Train-order cabinet. No. 1,291,046; Jan. 14; v. 258; p. 273.
- McCrosky, Bynum B., Oakland, Calif. Vehicle-wheel. No. 1,324,972; Dec. 16; v. 269; p. 436.
- McCullen, Earley B. (See Mulcahy, Joseph, assignor.)
- McCullough, Albert D., Fairbury, Nebr. Automatic carrier-tripping mechanism. No. 1,322,193; Nov. 18; v. 268; p. 460.
- McCullough, Archie, Bellaire, Kans. Razor-blade wiper. No. 1,317,088; Sept. 23; v. 266; p. 554.
- McCullough, Arthur L. (See McCullough, Henry L., assignor.)
- McCullough, Frederick S., assignor to G. L. Martin, Cleveland, Ohio. Wireless elevator signaling system. No. 1,318,165; Oct. 7; v. 267; p. 96.
- McCullough, Henry L., assignor to A. L. McCullough, Minneapolis, Minn. Self-oiling pulley. No. 1,309,739; July 15; v. 264; p. 385.
- McCullough, Henry L., Minneapolis, Minn. Force-feed lubricator. No. 1,309,740; July 15; v. 264; p. 386.
- McCulloch, John A., near McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Pipe-joint. No. 1,314,410; Aug. 26; v. 265; p. 569.
- McCullough, Thomas, Medicine Lodge, Kans. Ironing-board. No. 1,314,411; Aug. 26; v. 265; p. 569.
- McCullough, William D., and T. Mahoney, assignors to Premier Cushion Spring Company, Detroit, Mich. Upholstery spring construction. No. 1,298,747; Apr. 1; v. 261; p. 30.
- McCullough, William T., Chicago, Ill. Power-transmitting device. (Reissue.) No. 14,698; July 29; v. 264; p. 842.
- McCully, George F., North Vancouver, and A. A. Davidson, Vancouver, British Columbia, Canada. Faucet. No. 1,321,835; Nov. 18; v. 268; p. 394.
- McCully, William B., Newark, N. J. Cigar and cigarette holder. No. 1,294,815; Feb. 18; v. 259; p. 495.
- McCune, Herbert R., assignor to Decatur Brick Manufacturing Company, Decatur, Ill. Brick-machine. No. 1,303,344; May 13; v. 262; p. 191.
- McCune, Robert H., Roswell, N. Mex. Portable folding bed. No. 1,303,487; May 13; v. 262; p. 217.
- McCurdy, Alexander D., Philadelphia, Pa. Motorcycle. No. 1,316,455; Sept. 16; v. 266; p. 388.
- McCurdy, Arthur W., Victoria, British Columbia, Canada. Device for coating surfaces. No. 1,313,197; Aug. 12; v. 265; p. 288.
- McCurdy, Horace L., assignor to E. Moxlow, Oakwood, Mich. Carburetor. No. 1,324,510; Dec. 9; v. 269; p. 289.
- McCurry, Earl M. (See Grove, McCurry, and Bilger.)
- McCutchen, Brunson S., and H. E. Williams, Washington, D. C. Apparatus for reproducing rotary motion. No. 1,322,319; Nov. 18; v. 268; p. 483.
- McCutcheon, Charles A., Falconer, N. Y. Flexible shaft-coupling. No. 1,320,786; Nov. 4; v. 268; p. 80.
- McCutcheon, Joe A., Austin, Tex. Incinerator. No. 1,299,975; Apr. 8; v. 261; p. 336.
- McDade, James E., Chicago, Ill. Educational chart. No. 1,323,779; Dec. 2; v. 269; p. 104.
- McDade, John J., and F. P. Donnelly, Dorchester, Mass. Hopple for motor-vehicles. No. 1,304,785; May 27; v. 262; p. 536.
- McDaniel, Floyd W., Rockford, Ill. Printing-press. No. 1,316,099; Sept. 16; v. 266; p. 321.
- McDaniel, Fred L. (See McDaniel, Harvey O. and F. L.)
- McDaniel, Harvey O. and F. L., Lynchburg, O. Operating mechanism for washing-machines. No. 1,323,536; Dec. 2; v. 269; p. 59.
- McDearmon, William T., Dyersburg, Tenn. Picking-sack. No. 1,322,320; Nov. 18; v. 268; p. 484.
- McDermott, Jim E., Swenson, Tex. Carpenter's tool. No. 1,294,289; Feb. 11; v. 259; p. 337.
- McDermid, Hugh, Chicago, Ill. Rail-clamp. No. 1,293,831; Feb. 11; v. 259; p. 230.
- McDermott, Charles J. (See Berrill and Frey, assignors.)
- McDermott, John J., Woodstown, N. J. Shoe attachment. No. 1,311,079; July 22; v. 264; p. 662.
- McDole, Alby B., Buffalo, N. Y. Painting apparatus. No. 1,311,827; July 29; v. 264; p. 834.
- McDonald, Alexander, Duluth, Minn. Liquid-vending device. No. 1,300,285; Apr. 15; v. 261; p. 430.
- McDonald, Alexander, Duluth, Minn. Liquid-receptacle. No. 1,300,432; Apr. 15; v. 261; p. 460.
- McDonald, Arthur E., San Francisco, Cal. Gear-shift lock. No. 1,296,099; Mar. 4; v. 260; p. 64.
- McDonald, Charles P., Detroit, Mich. Cushion and forming the same. No. 1,300,853; Apr. 15; v. 261; p. 550.
- McDonald, Clarence T., assignor to Multi Refillable Fuse Company, Chicago, Ill. Refillable cartridge-fuse. No. 1,311,661; July 29; v. 264; p. 804.
- McDonald, D. B., et al. (See Shoemaker, John F., assignor.)
- McDonald, David A., Chicago, Ill. Trumpet. No. 1,291,966; Jan. 21; v. 258; p. 523.
- McDonald, David M., Paterson, N. J. Handle. No. 1,315,376; Sept. 9; v. 266; p. 175.
- McDonald, Ervan L., Salt Lake City, Utah. Method of and apparatus for making electrical measurements. No. 1,306,069; June 10; v. 263; p. 188.
- McDonald, Evert, Monon, Ind. Sewing outfit. No. 1,293,492; Feb. 4; v. 259; p. 120.
- McDonald, Howard C., Buffalo, N. Y. Towel holder or device. No. 1,323,296; Dec. 2; v. 269; p. 14.
- McDonald, James, Cincinnati, Ohio. Preparing patent-leather. No. 1,309,863; July 15; v. 264; p. 408.
- McDonald, John P., Orange, Tex. Interliner for tires. No. 1,318,095; Oct. 7; v. 267; p. 82.
- McDonald, Joseph A., Auburndale, and W. R. Forsyth, Swampscott, Mass.; said McDonald assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Veneer-press. No. 1,315,976; Sept. 16; v. 266; p. 298.
- McDonald, Leslie R., assignor to M. G. O'Leary, Montreal, Quebec, Canada. Constant-amplitude-of-vibration motor and controlling same. No. 1,290,264; Jan. 7; v. 258; p. 61.
- McDonald, Stephen F., Cleveland, Ohio. Ventilator. No. 1,292,832; Jan. 28; v. 258; p. 751.
- McDonald, William B., London, Ark. Well-cover. No. 1,312,556; Aug. 12; v. 265; p. 162.
- McDonald, William F., Madison, Wis. Angle-gage. No. 1,324,681; Dec. 9; v. 269; p. 321.
- McDonnell, Cornelius P. F., Kansas City, Mo. Street or station indicator. No. 1,325,481; Dec. 16; v. 269; p. 530.
- McDonnell, George P., St. Louis, Mo. Signaling sealing device for valves, &c. No. 1,312,191; Aug. 5; v. 265; p. 64.
- McDonnell, James F., Cleveland, Ohio, assignor to E. Schwarz, Chicago, Ill. Brush. No. 1,317,303; Sept. 30; v. 266; p. 631.
- McDonnell, Michael T., Kamloops, British Columbia, Canada. Air-hose-parting chain. No. 1,317,982; Oct. 7; v. 267; p. 61.
- McDonnell, Ralph R., Chicago, Ill. Automobile direction-indicator. No. 1,299,976; Apr. 8; v. 261; p. 336.
- McDonough, Martin N., Pittsburgh, Pa. Pipe-coupling. No. 1,290,613; Jan. 7; v. 258; p. 144.
- McDonough, Matthew L., Cincinnati, Ohio. Staining marble. No. 1,293,832; Feb. 11; v. 259; p. 230.
- McDonough, Thomas P. (See Zaccard and McDonough.)



## Alphabetical list of patentees—Continued.

- McDorman, Paul. (See Niswonger and McDorman.)  
 McDowell, Robert S., Pasadena, Calif. assignor of one-half to J. Breyer, Redlands, Calif. Irrigating-gate attachment. No. 1,325,496; Dec. 16; v. 269; p. 533.  
 McDougal, Albert, New York, N. Y. Golf-club head. No. 1,291,967; Jan. 21; v. 258; p. 523.  
 McDougall, Alexander, Duluth, Minn. Apparatus for destroying submarines. No. 1,293,140; Feb. 4; v. 259; p. 39.  
 McDougall, Alexander, Duluth, Minn. Spud-anchor for vessels. No. 1,320,642; Nov. 4; v. 268; p. 53.  
 McDougall, Andrew H., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Cupola variable twyer. No. 1,320,158; Oct. 28; v. 267; p. 584.  
 McDougall, Robert, Jacksonville, Fla. Locomotive-spring. No. 1,321,798; Nov. 11; v. 268; p. 335.  
 McDougall, Walter. (See Barlow, Arthur, assignor.)  
 McDowell, Clyde S., U. S. Navy, and L. L. Israel, New York, assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Optical signaling apparatus. No. 1,309,441; July 8; v. 264; p. 293.  
 McDowell, James H., Brooklyn, N. Y. Fusible link. No. 1,317,629; Sept. 30; v. 266; p. 694.  
 McDowell, Robert H., Marshalltown, Iowa. Toy. No. 1,323,196; Nov. 25; v. 268; p. 701.  
 McEachern, Samuel D., Jayton, Tex. Cotton-picker. No. 1,297,376; Mar. 18; v. 260; p. 414.  
 McEldowney, Harriet, Windsor, Ontario, Canada. Ribbon-pendant. No. 1,291,968; Jan. 21; v. 258; p. 523.  
 McElheney, B. E. (See Davidson, John R., assignor.)  
 McElhinny, John W., Chicago, assignor of one-half to W. M. Roberts, Oak Park, Ill. Table. No. 1,324,259; Dec. 9; v. 269; p. 239.  
 McElrath, William W., Jr., East Radford, Va. Hydrocarbon-vaporizer. No. 1,320,787; Nov. 4; v. 268; p. 80.  
 McElrath, William W., Jr., East Radford, Va., assignor to Turbo Motor Company, Trenton, N. J. Internal-combustion engine. No. 1,319,100; Oct. 21; v. 267; p. 361.  
 McElroy, Daniel S., Springfield, Ill. Adding or calculating machine. No. 1,308,548; July 1; v. 264; p. 98.  
 McElroy, Isaac E., and L. Risk, Minneapolis, Minn.; said McElroy assignor to C. H. Rogers, St. Paul, Minn. Vulcanizer. No. 1,301,721; Apr. 22; v. 261; p. 760.  
 McElroy, Karl P., Washington, D. C., assignor to Chemical Development Company. Making chlorhydrins. No. 1,295,339; Feb. 25; v. 259; p. 638.  
 McElroy, Karl P., Washington, D. C., assignor to Chemical Development Company, Augusta, Me. Oxidizing hydrocarbons. No. 1,308,796; July 8; v. 264; p. 173.  
 McElroy, Karl P., Washington, D. C., assignor to Chemical Development Company. Oxidizing hydrocarbons. No. 1,308,797; July 8; v. 264; p. 173.  
 McElroy, Karl P., Washington, D. C., assignor to Chemical Development Company. Producing chlorhydrins from olefins. No. 1,315,229; Sept. 9; v. 266; p. 148.  
 McElroy, Robert L. (See Arnold, Fred L., assignor.)  
 McElroy, Robert L. (See Penney, Harold D., assignor.)  
 McElroy, Robert L., New York, N. Y., and J. E. Shepherd, University, Va. Automatic fire-extinguishing apparatus. No. 1,325,647; Dec. 23; v. 269; p. 579.  
 McElroy, Roy H., assignor to International Clay Machinery Company, Dayton, Ohio. Gas-burner. No. 1,311,132; July 22; v. 264; p. 672.  
 McElveen, Henry M., Charleston, S. C. Heat-deflecting device. No. 1,318,216; Oct. 7; v. 267; p. 106.  
 McElwain, George, El Paso, Tex. Ore-separating apparatus. No. 1,299,848; Apr. 8; v. 261; p. 309.  
 McEniry, Charles J., et al. (See May, Harry E., assignor.)  
 McEnroe, John P., North Topeka, Kans. Rear-seat attachment for motorcycles. No. 1,317,378; Sept. 30; v. 266; p. 646.  
 McEntire, Bernie B., Irmo, S. C. Locomotive reversing device. No. 1,290,265; Jan. 7; v. 258; p. 61.  
 McEntire, George P., Topeka, Kans. Batting and method of and apparatus for making same. No. 1,297,201; Mar. 11; v. 260; p. 347.  
 McEvilly, Thomas F., Wilmington, Del. Locking device. No. 1,310,627; July 22; v. 264; p. 579.  
 McEwan, Frank J., Chicago, Ill. Tool-box for vehicles. No. 1,302,397; Apr. 29; v. 261; p. 920.  
 McEwen, Fred E., assignor to S. H. Goldberg, Chicago, Ill. Retracting tires. No. 1,306,602; June 10; v. 263; p. 289.  
 McEwen, John B., London, England. Piano and piano-player. No. 1,321,654; Nov. 11; v. 268; p. 308.  
 McEwen, John B., London, England. Automatic musical instrument. No. 1,325,482; Dec. 16; v. 269; p. 530.  
 McEwen, Thomas C., Belleville, N. J. Vehicle-wheel tire. No. 1,322,321; Nov. 18; v. 268; p. 484.  
 McEwen, Willard M. (See Olson, Gustaf, assignor.)  
 McEwen, Willard M., Chicago, Ill. Tractor transmission mechanism for motor-vehicles. No. 1,290,266; Jan. 7; v. 258; p. 61.  
 McEwen, Willard M., Chicago, Ill. Contact mechanism for railway signal systems. No. 1,304,338; May 20; v. 262; p. 412.  
 McEwen, Willard M., Chicago, Ill. Fan. No. 1,316,907; Sept. 23; v. 266; p. 520.  
 McEwen, William M. (See Lamb, Charles C., assignor.)  
 McFadden, Ivor, Los Angeles, Calif. Motion-picture machine. No. 1,318,889; Oct. 14; v. 267; p. 296.  
 McFarland, Frank W., Reynolds, Ill. Parachute. No. 1,311,000; July 22; v. 264; p. 647.  
 McFarland, George B., Columbus, Nebr. Automatic self-propelled plowing-machine. No. 1,291,969; Jan. 21; v. 258; p. 524.  
 McFarland, James W., Brownwood, Tex. Washing appliance. No. 1,292,833; Jan. 28; v. 258; p. 752.  
 McFarland, James W., Brownwood, Tex. Washboiler. No. 1,324,836; Dec. 16; v. 269; p. 411.  
 McFarland, John, assignor of one-half to C. M. Nixon, New York, N. Y. Cooking utensil. No. 1,305,818; June 3; v. 263; p. 111.  
 McFarland, John C., La Grande, Ore. Matrix-machine. No. 1,299,749; Apr. 8; v. 261; p. 286.  
 McFarland, John D., St. Louis, Mo. Surgical swab. No. 1,315,026; Sept. 2; v. 266; p. 101.  
 McFarland, John I., Lodi, Wis. Transportable adjustable automobile-rack. No. 1,290,267; Jan. 7; v. 258; p. 62.  
 McFarland, John L., Tangent, Ore. Camera-shutter releaser. No. 1,304,585; May 27; v. 262; p. 499.  
 McFarland, John L., Tangent, Ore. Steering-wheel attachment. No. 1,320,254; Oct. 28; v. 267; p. 603.  
 McFarland, Owen D., Chicago, Ill. Making shingle-simulating roofing strips. No. 1,296,984; Mar. 11; v. 260; p. 300.  
 McFarland, Samuel, Coatesville, Pa. Casting apparatus. No. 1,290,614; Jan. 7; v. 258; p. 144.  
 McFarland, Thomas L. (See Pace, Ernest, assignor.)  
 McFarlane, George W. (See Dowle, Frederick J., assignor.)  
 McFarlane, Logan, Halton, near Leeds, England. Machine for molding pulp. No. 1,303,932; May 20; v. 262; p. 337.  
 McFarlane, Robert E. (See Ehle, Henry D., assignor.)  
 McFarlane, Robert E., Duluth, Minn. Tourniquet. No. 1,302,062; Apr. 29; v. 261; p. 857.  
 McFarlin, John R., assignor to Electric Service Supplies Company, Philadelphia, Pa. Means for dimming electric headlights. No. 1,322,917; Nov. 25; v. 268; p. 647.  
 McFeaters, George H., Johnstown, Pa. Engine-stop. No. 1,301,471; Apr. 22; v. 261; p. 713.  
 McFeaters, George H., Johnstown, Pa. Pipe-hanger. No. 1,303,345; May 13; v. 262; p. 191.  
 McFeaters, George H., Johnstown, Pa. Pipe-hanger. No. 1,303,346; May 13; v. 262; p. 192.  
 McFeaters, George H., Johnstown, Pa. Pipe-hanger. No. 1,303,347; May 13; v. 262; p. 192.  
 McFeaters, George H., Johnstown, Pa. Insulator-support. No. 1,315,633; Sept. 9; v. 266; p. 221.  
 McFeely, Ronald F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for cutting sheet material. No. 1,317,716; Oct. 7; v. 267; p. 11.  
 McFell, Judson, Chicago, Ill. Electric signal-transmitting means. No. 1,308,958; July 8; v. 264; p. 202.  
 McFerran, John A. and M. L., Louisville, Ky. Draft-regulator and smoke-purifier. No. 1,292,834; Jan. 28; v. 258; p. 752.  
 McFerran, Milton L. (See McFerran, John A. and M. L.)  
 McFerran, David S., Quenemo, Kans. Cushion-tire. No. 1,310,126; July 15; v. 264; p. 456.  
 McGahan, Frederick L., Los Angeles, Cal. Alloying-furnace. No. 1,290,268; Jan. 7; v. 258; p. 62.  
 McGahan, Frederick L., Los Angeles, Cal. Locomotive. No. 1,292,399; Jan. 21; v. 258; p. 626.  
 McGahan, Frederick L., Los Angeles, Calif. Turbine-locomotive. No. 1,324,427; Dec. 9; v. 269; p. 272.  
 McGary, Alexander, New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company, Closet. No. 1,290,615; Jan. 7; v. 258; p. 145.  
 McGary, Alexander, New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company, Closet. No. 1,293,141; Feb. 4; v. 259; p. 39.  
 McGary, Eugene L., assignor to Charles F. Elmes Engineering Works, Chicago, Ill. Hydraulic compress. No. 1,293,833; Feb. 11; v. 259; p. 231.  
 McGary, Eugene L., Chicago, Ill. Press. No. 1,301,954; Apr. 29; v. 261; p. 836.  
 McGaw, William J., Beachhaven, N. J. Shirt-cuff. No. 1,291,970; Jan. 21; v. 258; p. 524.  
 McGee, Frank R., Steubenville, Ohio. Flexible coupling. No. 1,316,733; Sept. 23; v. 266; p. 489.  
 McGee, Mary, Muscatine, Iowa. Stovepipe attachment. No. 1,320,255; Oct. 28; v. 267; p. 603.  
 McGee, Richard T., Wheeling, W. Va. Charging apparatus for glass-molds. No. 1,315,562; Sept. 9; v. 266; p. 208.  
 McGee, Willis G., and J. Fogarty, San Francisco, Calif. Hold-on attachment for studs. No. 1,326,075; Dec. 23; v. 269; p. 659.  
 McGhee, Abner J., Jackson, Tenn. Furnace. No. 1,319,402; Oct. 21; v. 267; p. 419.  
 McGhee, Abner J., Jackson, Tenn. Furnace. No. 1,319,403; Oct. 21; v. 267; p. 419.  
 McGibbon, Salton, Edmonton, Alberta, Canada. Safety-pin. No. 1,323,886; Dec. 2; v. 269; p. 125.



- McGiehan, Patrick H., New York, N. Y. Safety non-slip-pedal plate or cap. No. 1,297,202; Mar. 11; v. 260; p. 347.
- McGiehan, Patrick H., Brooklyn, assignor to Multicolor Intaglio Press Company, New York, N. Y. Rotary printing-press. No. 1,315,377; Sept. 9; v. 266; p. 175.
- McGiff, Alexander M., and H. Chinsky, New York, N. Y. Automobile-lock. No. 1,324,457; Dec. 9; v. 269; p. 278.
- McGill, Chester T., Elgin, Ill. System for cleaning boilers. No. 1,308,715; July 1; v. 264; p. 130.
- McGill, Daniel F., Portland, Oreg. Valve. No. 1,325,303; Dec. 16; v. 269; p. 498.
- McGinley, Frederick D., and T. J. Coughlin, Syracuse, N. Y. Track-sanding device. No. 1,314,198; Aug. 26; v. 265; p. 527.
- McGinn, Jack, assignor of one-third to L. F. and J. N. Thornton, Oakland, Calif. Dislodging attachment for rakes. No. 1,310,868; July 22; v. 264; p. 623.
- McGinness, Francis V., Orange, N. J., and J. B. N. Cardoza, Virginia Beach, Va. Rail-insulating means. No. 1,293,834; Feb. 11; v. 259; p. 231.
- McGinnis, H. J., et al. (See Brown, Marvin H., assignor.)
- McGinnis, Richard R. H., New York, N. Y. Banjo. No. 1,314,823; Sept. 2; v. 266; p. 65.
- McGirr, Patrick A., De Kalb, Ill. Plow. No. 1,297,377; Mar. 18; v. 260; p. 414.
- McGlathery, Edgar A., Winchester, Va. Barrel-press. No. 1,310,357; July 15; v. 264; p. 497.
- McGlaughlin, John P., Chicago, Ill. Filtering-press. No. 1,292,342; Jan. 21; v. 258; p. 614.
- McGlothlen, Purdy N., Yakima, Wash. Box-nailing bench. No. 1,303,488; May 13; v. 262; p. 217.
- McGoldrick, Timothy, Lincoln, N. H. Arm-cushion for crutches and fastenings therefor. No. 1,312,030; Aug. 5; v. 265; p. 34.
- McGovern, Bernard B., Frenchville, Pa. Rail-joint. No. 1,314,412; Aug. 26; v. 265; p. 569.
- McGovern, Daniel F., Montpelier, Vt. Polishing-wheel. No. 1,296,985; Mar. 11; v. 260; p. 300.
- McGovey, Edward, Mokena, Ill. Locking device. No. 1,294,502; Feb. 18; v. 259; p. 423.
- McGowan, Martin J., Scranton, Pa. Trolley-wheel bearing. No. 1,322,252; Nov. 18; v. 268; p. 471.
- McGowan, Owen J., Brooklyn, N. Y. Drive-chain. No. 1,293,835; Feb. 11; v. 259; p. 231.
- McGowan, Owen J., Brooklyn, N. Y. Releasing-hook. No. 1,308,549; July 1; v. 264; p. 99.
- McGranahan, Charles, Youngstown, Ohio, and W. H. Cotton, Chicago, Ill. Surfacing-machine. No. 1,321,931; Nov. 18; v. 268; p. 411.
- McGrane, Frank B., Somerville, Mass. Combination road-vehicle. No. 1,316,373; Sept. 16; v. 266; p. 372.
- McGrane, Frank B., Somerville, Mass. Combination road-vehicle. No. 1,316,374; Sept. 16; v. 266; p. 372.
- McGrath, Arthur C., Sioux City, Iowa. Linotype-machine. No. 1,314,006; Aug. 26; v. 265; p. 491.
- McGrath, Earl M., Helena, Mont. Electric-circuit closer. No. 1,295,777; Feb. 25; v. 259; p. 740.
- McGrath, George E., Chicago, Ill. Catch-basin for downspouts. No. 1,312,699; Aug. 12; v. 265; p. 190.
- McGrath, Hugh F., Philadelphia, Pa. Nut-lock. No. 1,305,729; June 3; v. 263; p. 94.
- McGrath, John T., Bloomington, Ill. Apparatus for reclaiming boiler-tubes. No. 1,293,836; Feb. 11; v. 259; p. 231.
- McGrath, John T., Bloomington, Ill. Walking-chair. No. 1,307,058; June 17; v. 263; p. 406.
- McGrath, John T., Bloomington, Ill. Pig-brooder. No. 1,317,516; Sept. 30; v. 266; p. 672.
- McGrath, John T., Bloomington, Ill. Tube-testing machine. No. 1,325,747; Dec. 23; v. 269; p. 597.
- McGrath, Justin, San Francisco, Calif. Ship construction. No. 1,314,069; Aug. 26; v. 265; p. 503.
- McGrath, Patrick J., assignor of one-half to W. Butler, Jr., Philadelphia, Pa. Shoe-sole-leveling machine. No. 1,304,078; May 20; v. 262; p. 363.
- McGrath, Roy C. (See Stewart and McGrath.)
- McGraw, Daniel F., San Francisco, Cal., assignor to Safety-Graph Educational Film Company, Inc., Reno, Nev. Light-diffusing shutter for moving-picture machines. No. 1,291,971; Jan. 21; v. 258; p. 524.
- McGraw Tire & Rubber Company, The. (See Bundy, Elmer J., assignor.)
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,300,433; Apr. 15; v. 261; p. 461.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,300,434; Apr. 15; v. 261; p. 461.
- McGregor, Herman C., Salt Lake City, Utah. Cushion-support. No. 1,306,306; June 10; v. 263; p. 235.
- McGregor, John F., Medora, Manitoba, Canada. Oil-can. No. 1,303,696; May 13; v. 262; p. 255.
- McGregor, Ringling R., Hot Springs, Ark. Eucathol inspirator. No. 1,304,339; May 20; v. 262; p. 413.
- McGregor, William A., assignor to McGregor Working Barrel Company, Inc., Bradford, Pa. Working barrel for oil-well pumps. No. 1,301,068; Apr. 15; v. 261; p. 598.
- McGregor, William G., Haverhill, Mass. Folding implement. No. 1,293,142; Feb. 4; v. 259; p. 39.
- McGregor Working Barrel Company. (See McGregor, William A., assignor.)
- McGrew, Jessie H. (See Silberman, Samuel G., assignor.)
- McGriff, John C. F., Oakland, Calif. Trailer for automobiles. No. 1,325,162; Dec. 16; v. 269; p. 472.
- McGriff, Thomas C., assignor of one-fourth to W. J. Kelsey and one-fourth to F. L. Kelsey, Winnemucca, Nev. Wheel. No. 1,305,730; June 3; v. 263; p. 94.
- McGruer, Ewing, Lambeth, London, England. Hollow spar, wooden tube, and the like. No. 1,314,007; Aug. 26; v. 265; p. 491.
- McGuckin, Hugh, Syracuse, N. Y. Anchor for guy-rods. No. 1,312,918; Aug. 12; v. 265; p. 233.
- McGuff, Matthew A., (See Aylor and McGuff.)
- McGuigan, Michael J., Ashland, Wis. Pencil and penholder attachment. No. 1,291,972; Jan. 21; v. 258; p. 524.
- McGuire, Eugene L., assignor of one-half to A. Sales, Dennison, Ohio. Feeding and removing apparatus for furnaces. No. 1,320,898; Nov. 4; v. 268; p. 102.
- McGuire, Frank A., Iola, Kans. Wick-holder. No. 1,299,977; Apr. 8; v. 261; p. 336.
- McGuire, James, and J. M. Bong, Milwaukee, Wis. Steam-cylinder drain-valve. No. 1,319,404; Oct. 21; v. 267.
- McGuire, Thomas E. (See Baker and McGuire.)
- McGunnigal, Sylvester B., assignor to The Stone Straw Company, Washington, D. C. Tube-cutting machine. No. 1,297,203; Mar. 11; v. 260; p. 347.
- McGurk, Daniel J., Akron, Ohio. Guide-light. No. 1,301,722; Apr. 22; v. 261; p. 761.
- McHale, Philip, New Bedford, Mass. Drawing-roll for drawing and evening rolls. No. 1,323,297; Dec. 2; v. 269; p. 14.
- McHarg, Ernest J., Binghamton, N. Y. Crane. No. 1,326,076; Dec. 23; v. 269; p. 659.
- McHenry, Samuel B., Bloomsburg, Pa. Astronomical demonstrating device. No. 1,293,837; Feb. 11; v. 259; p. 232.
- McHenry, Samuel B., Bloomsburg, Pa. Automobile-engine starter. No. 1,304,996; May 27; v. 262; p. 575.
- McHenry, Samuel B., Bloomsburg, Pa. Broom-manufacturing machine. No. 1,306,307; June 10; v. 263; p. 235.
- McHenry, Samuel B., Bloomsburg, Pa. Brush. No. 1,306,308; June 10; v. 263; p. 235.
- McHugh, James L., Seattle, Wash. Tobacco-pouch. No. 1,310,869; July 22; v. 264; p. 623.
- Mellbary, John M., and E. K. Kitts, Bluefield, W. Va. Train-telephone system. No. 1,308,910; July 8; v. 264; p. 193.
- Mellroy, James G., U. S. Army. Latrine. No. 1,294,687; Feb. 18; v. 259; p. 406.
- Mellroy, Peter, Allison Park, assignor to Enameled Metals Company, Sharpsburg, Pa. Conduit or pipe. No. 1,291,577; Jan. 14; v. 258; p. 395.
- Mellroy, Peter, Allison Park, assignor to Enameled Metals Company, Sharpsburg, Pa. Pipe-protector. No. 1,296,678; Mar. 11; v. 260; p. 229.
- Mellvin, William B., Manchester, N. H. Pencil extension. No. 1,305,477; June 3; v. 263; p. 47.
- Mellvov, George D., assignor to J. S. Wakefield, Oklahoma, Okla. Sanitary closet-cabinet. No. 1,312,192; Aug. 5; v. 265; p. 64.
- McInerney, Joseph P., St. Louis, Mo. Portable house. No. 1,312,700; Aug. 12; v. 265; p. 191.
- McInnis, Adrian K. (See Lea, Lawrence M., assignor.)
- McIntire, Bartolomew, San Francisco, Calif. Excavating machine. No. 1,306,350; June 10; v. 263; p. 243.
- McIntire, Bartolomew, San Francisco, Calif. Reciprocating mechanism. No. 1,306,351; June 10; v. 263; p. 243.
- McIntire, Charles V., New York, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Door-handling mechanism. No. 1,292,622; Jan. 28; v. 258; p. 703.
- McIntire, Charles V., New York, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven-regenerator connection. No. 1,292,623; Jan. 28; v. 258; p. 703.
- McIntire, George H. (See Wilcox and McIntire.)
- McIntire, Hervey H., South Bend, Ind. Vignetting device for phototyping-machines. No. 1,315,732; Sept. 9; v. 266; p. 238.
- McIntire, James E., Weymouth, assignor to P. R. Glass Company, Boston, Mass. Machine for wiping out bindings. No. 1,322,591; Nov. 25; v. 268; p. 587.
- McIntire, John B., Wilkinsburg, Pa. Playing-cards. No. 1,320,899; Nov. 4; v. 268; p. 102.
- McIntosh Battery and Optical Co. (See MacLagan, Hector P., assignor.)
- McIntosh, Frederick F., Glen Osborn, Pa. Preventing oxidation of molten metal. No. 1,324,458; Dec. 9; v. 269; p. 279.
- McIntosh, James A., La Fayette, Ind., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire hanger. No. 1,296,829; Mar. 11; v. 260; p. 264.
- McIntosh, James O., Milford, Utah. Torpedo-guard. No. 1,296,543; Mar. 4; v. 260; p. 162.
- McIntyre, Ainwell G. (See Hinzke, Albert G., assignor.)
- McIntyre, Ainwell G., Toronto, Canada. Sulfur-oxidizing process and apparatus therefor. No. 1,303,348; May 13; v. 262; p. 192.



*Alphabetical list of patentees—Continued.*

- McIntyre, David, assignor to M. and M. Concrete and Machinery Company, Cleveland, Ohio. Building-tile. No. 1,305,294; June 3; v. 263; p. 13.
- McIntyre, John J., and C. Koehler, Hartford, Conn. Automatic rough-ball grinder. No. 1,306,767; June 17; v. 263; p. 352.
- McIntyre, Joseph J., Brooklyn, N. Y. Aerial bomb. No. 1,312,998; Aug. 12; v. 265; p. 249.
- McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,291,653; Jan. 14; v. 258; p. 414.
- McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Plate-bending machine. No. 1,295,542; Feb. 25; v. 259; p. 686.
- McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,298,069; Mar. 25; v. 260; p. 586.
- McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Vehicle-spring. No. 1,298,748; Apr. 1; v. 261; p. 30.
- McIntyre, Michael M., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Spring-making machine. No. 1,320,788; Nov. 4; v. 268; p. 81.
- McIntyre, Verne E., Hinsdale, Mont. Attachment for grain-binders. No. 1,299,365; Apr. 1; v. 261; p. 170.
- McIntyre, William A., Mist, Oreg. Closure attachment. No. 1,324,682; Dec. 9; v. 269; p. 321.
- McIntyre, William H., Chicago, Ill. Automobile-body attachment. No. 1,310,425; July 22; v. 264; p. 542.
- McKaig, Charles O., (See Honeywell and McKaig.)
- McKaig, Eddy T., Waukegan, Ill. Friction-drive mechanism for automobiles. No. 1,297,485; Mar. 18; v. 260; p. 436.
- McKaig, Eddy T., Waukegan, Ill. Tilting front axle for vehicles. No. 1,308,289; July 1; v. 264; p. 52.
- McKaig, Eddy T., Waukegan, Ill. Locking device for differential gears. No. 1,308,290; July 1; v. 264; p. 52.
- McKay, Alex., (See Cook, Willis A., assignor.)
- McKay, Augusta P., assignor to McKay Disk Plow Co., Rome, Ga. Disk plow and subsoiler. No. 1,322,887; Dec. 2; v. 269; p. 125.
- McKay, Clarence H., Reading, Mass. Incandescent electric lamp. No. 1,305,295; June 3; v. 263; p. 13.
- McKay Company, The., (See McKay, Stewart R., assignor.)
- McKay Concrete Form Company., (See McKay, Stewart R., assignor.)
- McKay Disk Plow Co., (See McKay, Augusta P., assignor.)
- McKay, Donald A., Elnora, Alberta, Canada. Combination-padlock. No. 1,295,543; Feb. 25; v. 259; p. 686.
- McKay, Henry N., Oakland, Calif. Non-numeral-key lock for computing type-writers. No. 1,320,018; Oct. 28; v. 267; p. 558.
- McKay, John A., Toronto, Ontario, Canada. Electrical-fitting connection. No. 1,300,286; Apr. 15; v. 261; p. 430.
- McKay, John A., Toronto, Ontario, Canada. Electric-fitting connection. No. 1,307,869; June 24; v. 263; p. 586.
- McKay, Peter M., Nelson, New Zealand. Artificial limb. No. 1,319,884; Oct. 28; v. 267; p. 533.
- McKay, Robert J., Pittsburgh, Pa. Stay-bolt. No. 1,308,185; July 1; v. 264; p. 33.
- McKay, Robert J., Pittsburgh, Pa. Stay-bolt. No. 1,308,186; July 1; v. 264; p. 33.
- McKay, Robert J. and T. J., Pittsburgh, Pa. Stay-bolt. No. 1,292,835; Jan. 28; v. 258; p. 752.
- McKay, Stewart R., Cleveland, Ohio, assignor to McKay Concrete Form Company, Seward, N. J. Arch-mold for concrete construction. No. 1,293,838; Feb. 11; v. 259; p. 232.
- McKay, Stewart R., East Cleveland, Ohio, assignor to McKay Concrete Form Company, Seward, N. J. Concrete-form. No. 1,299,200; Apr. 1; v. 261; p. 133.
- McKay, Stewart R., Cleveland, Ohio, assignor to McKay Concrete Form Company, Seward, N. J. Concrete-form. No. 1,300,435; Apr. 15; v. 261; p. 461.
- McKay, Stewart R., East Cleveland, Ohio, assignor to McKay Concrete Form Company, Seward, N. J. Concrete-form. No. 1,300,436; Apr. 15; v. 261; p. 462.
- McKay, Stewart R., Cleveland, Ohio, assignor to McKay Concrete Form Company, Seward, N. J. Concrete-form. No. 1,306,384; June 10; v. 263; p. 249.
- McKay, Stewart R., assignor to The McKay Company, Cleveland, Ohio. Demountable rim for vehicle-wheels. No. 1,306,828; June 17; v. 263; p. 363.
- McKay, Stewart R., Cleveland, Ohio, assignor to McKay Concrete Form Company, Seward, N. J. Concrete-form. No. 1,307,368; June 24; v. 263; p. 495.
- McKay, Stewart R., Cleveland, Ohio, assignor to McKay Concrete Form Company, Seward, N. J. Concrete-form. No. 1,311,282; July 29; v. 264; p. 733.
- McKay, Stewart R., Cleveland, Ohio, assignor to McKay Concrete Form Company, Seward, N. J. Concrete-form. No. 1,315,027; Sept. 2; v. 266; p. 101.
- McKay, Stewart R., assignor to The McKay Company, Cleveland, Ohio. Vehicle-wheel. No. 1,326,678; Dec. 30; v. 269; p. 808.
- McKay, Thomas J., (See McKay, Robert J. and T. J.)
- McKay, Walter G., Casper, Wyo. Single-delivery tooth-pick-holder. No. 1,296,986; Mar. 11; v. 260; p. 301.
- McKay, William F., La Grange, Ill. Surfacing material and making same. No. 1,318,096; Oct. 7; v. 267; p. 83.
- McKay, William L., (See Wagner, James M., assignor.)
- McKean, Edward S., Yonkers, N. Y., assignor of one-half to A. G. Jackson, Washington, D. C. Automobile-lock. No. 1,296,987; Mar. 11; v. 260; p. 301.
- McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Fabric for gasbags of aircraft and manufacturing the same. No. 1,301,955; Apr. 29; v. 261; p. 837.
- McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Fabric for airships, balloons, &c., and manufacturing the same. No. 1,316,456; Sept. 16; v. 266; p. 388.
- McKechnie, James, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Two-stroke internal-combustion engine. No. 1,318,781; Oct. 14; v. 267; p. 274.
- McKechnie, James, Barrow-in-Furness, and B. N. Wallis, Grange-over-Sands, assignors to Vickers Limited, Westminster, London, England. Mooting of lighter-than-air aircraft. No. 1,309,533; July 8; v. 264; p. 310.
- McKechnie, James, Barrow-in-Furness, and B. N. Wallis, Kents Bank, assignors to Vickers Limited, Westminster, London, England. Machine for drilling or punching holes for rivets. No. 1,320,159; Oct. 28; v. 267; p. 585.
- McKechnie, James M., and H. B. Pratt, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Aerostat structure of rigid airships. No. 1,308,291; July 1; v. 264; p. 52.
- McKee, Arthur G., Cleveland, Ohio. Downcomer. No. 1,293,839; Feb. 11; v. 259; p. 232.
- McKee, Garnet W., Rockford, Ill. Automatic temperature control for gas-furnaces and the like. No. 1,312,639; Aug. 12; v. 265; p. 179.
- McKee, Homer E., Braddyville, Iowa. Piston construction. No. 1,311,525; July 29; v. 264; p. 779.
- McKee, James T., New Brunswick, Canada, assignor of one-half to J. R. Thornberry, Seaford, England. Draft apparatus for furnaces. No. 1,318,782; Oct. 14; v. 267; p. 275.
- McKee, John, Greeneville, Tenn. Sweeper. No. 1,314,967; Sept. 2; v. 266; p. 90.
- McKee, Neal T., Yonkers, assignor to Locomotive Superheater Company, New York, N. Y. Locomotive. No. 1,298,070; Mar. 25; v. 260; p. 587.
- McKee, Neal T., Yonkers, assignor to Locomotive Superheater Company, New York, N. Y. Connecting means for superheater elements. No. 1,300,750; Apr. 15; v. 261; p. 528.
- McKee, Neal T., Yonkers, assignor to Locomotive Superheater Company, New York, N. Y. Front-end closure. No. 1,301,144; Apr. 22; v. 261; p. 649.
- McKee, Ralph H., Ridgefield Park, N. J. Production of alumina. No. 1,290,269; Jan. 7; v. 258; p. 62.
- McKee, Ralph H., Ridgefield Park, N. J. Making phenol. No. 1,312,127; Aug. 5; v. 265; p. 52.
- McKee, Ralph H., Ridgefield Park, N. J. Fermented liquor from nuts. No. 1,322,194; Nov. 18; v. 268; p. 460.
- McKee, Raymond E., assignor of one-half to O. Hamersmith, Chicago, Ill. Circuit-closer. No. 1,324,915; Dec. 16; v. 269; p. 426.
- McKee, Willis, Elyria, assignor to The Elyria Iron & Steel Company, Cleveland, Ohio. Fender-bar for automobiles and the like. No. 1,321,655; Nov. 11; v. 268; p. 308.
- McKeever, Charles, Jersey City, N. J., assignor of one-third to W. H. Dickinson and one-third to C. B. Mears, New York, N. Y. Signal apparatus. No. 1,311,662; July 29; v. 264; p. 804.
- McKellar, Angus, Salt Lake City, Utah. Visible-measure dispensing apparatus. No. 1,305,139; May 27; v. 262; p. 602.
- McKellar, David H., Motherwell, Scotland. Finger-ring. No. 1,309,647; July 15; v. 264; p. 369.
- McKelvey, David, Chicago, Ill. Pulverizer. No. 1,325,676; Dec. 23; v. 269; p. 585.
- McKelvey, Hugh D., Salida, Colo. Mechanical movement. No. 1,324,125; Dec. 9; v. 269; p. 214.
- McKelvey, Louis F., and J. A. Brandenburger, Indianapolis, Ind. Photo-film carrier. No. 1,323,369; Dec. 2; v. 269; p. 28.
- McKenna, Alexander G., and W. Dalton, assignors to Washington Steel & Ordnance Company, Washington, D. C. Armor-piercing projectile. No. 1,301,859; Apr. 29; v. 261; p. 818.
- McKenna, Alexander G., and W. Dalton, assignors to Washington Steel & Ordnance Company, Washington, D. C. Armor-piercing projectile. No. 1,301,860; Apr. 29; v. 261; p. 818.
- McKenna, Charles F., New York, N. Y. Explosive. No. 1,311,171; July 29; v. 264; p. 713.
- McKenna, Felix J., Seattle, Wash. Power transmission. No. 1,291,047; Jan. 14; v. 258; p. 273.
- McKenna, James, Toronto, Ontario, Canada, assignor to The Beistle Company, Shippensburg, Pa. Whirligig. No. 1,321,833; Nov. 18; v. 268; p. 394.
- McKenna, Peter J., (See Sanborn, Ralph C., assignor.)



- McKenna, Terrence L., Lindon, Colo. Resilient wheel. No. 1,313,707; Aug. 19; v. 265; p. 400.
- McKenney-Carr Company. (See McKenney, Emerson, assignor.) (Reissue.)
- McKenney, Emerson, assignor to McKenney-Carr Company, Bangor, Me. Pruning-shears. (Reissue.) No. 14,614; Mar. 18; v. 260; p. 545.
- McKenney, Gervis E., Chicago, Ill. Coffee-urn. No. 1,317,717; Oct. 7; v. 267; p. 11.
- McKennitt, William, Lakewood, Minn. Thrust-bearing for power-shafts. No. 1,309,763; July 15; v. 264; p. 390.
- McKenzie, Archibald F., Whitewold, Manitoba, Canada. Attachment to saw-vises. No. 1,308,248; July 1; v. 264; p. 44.
- McKenzie, Ernest M., Napa, Calif. Tractor. No. 1,316,627; Sept. 23; v. 266; p. 469.
- McKenzie, John W., Bay City, Mich. Tire attachment. No. 1,308,434; July 1; v. 264; p. 77.
- McKenzie, Louis D. (See Hayes and McKenzie.)
- McKenzie, William H., Oakland, Cal. Screw-tap support. No. 1,293,143; Feb. 4; v. 259; p. 39.
- McKenzie, William H., Oakland, Calif. Valve-testing machine. No. 1,298,236; Mar. 25; v. 260; p. 622.
- McKeogh, Thomas J., assignor to Sherwin-Williams Company, Limited, Montreal, Quebec, Canada. Package. No. 1,313,397; Aug. 19; v. 265; p. 342.
- McKeown, John R., Toronto, Ontario, Canada. Heat-box. No. 1,319,731; Oct. 28; v. 267; p. 514.
- McKeown, Samuel C. (See Tomlinson and McKeown.)
- McKeown, Samuel C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Means for mounting current-distributor blocks. No. 1,292,836; Jan. 28; v. 258; p. 752.
- McKeown, Samuel C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Means for mounting and connecting ignition breaker-boxes. No. 1,292,837; Jan. 28; v. 258; p. 752.
- McKeown, Samuel C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,292,838; Jan. 28; v. 258; p. 753.
- McKeown, Samuel C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,305,140; May 27; v. 262; p. 602.
- McKeown, Samuel C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Brush-holder. No. 1,311,904; Aug. 5; v. 265; p. 10.
- McKeown, Samuel C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition device for internal-combustion engines. No. 1,319,240; Oct. 21; v. 267; p. 388.
- McKeown, Samuel C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Brush-holder. No. 1,323,888; Dec. 2; v. 269; p. 125.
- McKerlie, John E., Waterford, Ontario, Canada. Soap-cutter. No. 1,312,335; Aug. 5; v. 265; p. 89.
- McKesson, Elmer I., Toledo, Ohio. Respirator. No. 1,320,900; Nov. 4; v. 268; p. 102.
- McKevitt, Frank B. (See Wood, William G., assignor.)
- McKevitt, Marie E., and M. Cohen, Boston, Mass.; said McKevitt assignor to said Cohen. House-dress or other garment. No. 1,291,048; Jan. 14; v. 258; p. 273.
- McKey, Emmett J., San Francisco, Calif. Bill-holder. No. 1,326,602; Dec. 30; v. 269; p. 795.
- McKibben, Charles W., Houston, Tex. Operation for the separation of liquids. No. 1,296,988; Mar. 11; v. 260; p. 301.
- McKibben, Charles W., Houston, Tex. Separating associated liquids. No. 1,299,589; Apr. 8; v. 261; p. 249.
- McKibben, Charles W., Houston, Tex. Method and means for separating water from heavy-oil emulsions. No. 1,299,590; Apr. 8; v. 261; p. 250.
- McKibben, Charles W., Houston, Tex. Apparatus for separating liquids in emulsion. No. 1,304,786; May 27; v. 262; p. 537.
- McKibben, Charles W., Houston, Tex. Telegraph-repeater. No. 1,307,558; June 24; v. 263; p. 530.
- McKillican, James W. A., Montreal, Quebec, Canada. Power-transmitting device. No. 1,312,999; Aug. 12; v. 265; p. 250.
- McKillop, Robert W. (See Orrock, John W., assignor.)
- McKinley, Charles W., assignor to The Willys-Overland Co., Toledo, Ohio. Battery-holder. No. 1,291,049; Jan. 14; v. 258; p. 274.
- McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Brake-operating mechanism. No. 1,310,801; July 22; v. 264; p. 611.
- McKinley, Denver, Columbus, Ohio. Stabilizer for aircraft. No. 1,302,688; May 6; v. 262; p. 39.
- McKinley, Harry C., assignor of one-half to C. Marsh, Elyria, Ohio. Boring and cutting tool. No. 1,298,071; Mar. 25; v. 260; p. 587.
- McKinley, Vergil P., University, Ala. Peanut-digger. No. 1,293,144; Feb. 4; v. 259; p. 39.
- McKinney, Roy W. (See McCann, Joseph A., assignor.)
- McKinney, William D., Los Angeles, Calif., assignor of forty-five one-hundredths to F. R. Gee and fifty-five one-hundredths to J. T. Robinson, Holyoke, Mass. Gun-mount. No. 1,324,604; Dec. 9; v. 269; p. 306.
- McKinney, William D., Los Angeles, Calif., assignor of forty-five one-hundredths to F. R. Gee and fifty-five one-hundredths to J. T. Robinson, Holyoke, Mass. Tripod. No. 1,324,605; Dec. 9; v. 269; p. 307.
- McKinney, William D., Los Angeles, Calif., assignor of fifty-five one-hundredths to J. T. Robinson and forty-five one-hundredths to F. R. Gee, Holyoke, Mass. Gun-mount. No. 1,324,606; Dec. 9; v. 269; p. 307.
- McKinnie, Earle C., Chicago, Ill. Lock for automobiles. No. 1,326,149; Dec. 23; v. 269; p. 672.
- McKinnie, Earle C., assignor to National X-Ray Reflector Co., Chicago, Ill. Lighting-fixture. No. 1,295,778; Feb. 25; v. 259; p. 740.
- McKinnie, Earle C., assignor to National X-Ray Reflector Co., Chicago, Ill. Combined direct and indirect lighting fixture. No. 1,318,783; Oct. 14; v. 267; p. 275.
- McKinnon Dash Company. (See Armstrong, Wesley J., assignor.)
- McKinnon, Hector, Eureka, Calif. Vehicle-drive. No. 1,309,074; July 8; v. 264; p. 225.
- McKinnon, Hector, Eureka, Calif. Weather-strip. No. 1,324,837; Dec. 16; v. 269; p. 412.
- McKinstry, George W., Southbridge, Mass., assignor to Bay State Optical Company. Ophthalmic mounting. No. 1,317,205; Sept. 30; v. 266; p. 613.
- McKinstry, George W., Southbridge, Mass., assignor to Bay State Optical Company. Ophthalmic mounting. No. 1,317,206; Sept. 30; v. 266; p. 613.
- McKinstry, George W., Southbridge, Mass., assignor to Bay State Optical Company. Ophthalmic mounting. No. 1,317,207; Sept. 30; v. 266; p. 613.
- McKinstry, Kossuth T., Atlanta, Ga. Means for securing vehicle-springs. No. 1,317,718; Oct. 7; v. 267; p. 11.
- McKirahan, Virginia, New Rochelle, N. Y. Curtain-protecting attachment for screens. No. 1,300,984; Apr. 15; v. 261; p. 578.
- McKissick, William H., Tulsa, Okla. Drainage-valve for deep-well pumps. No. 1,314,070; Aug. 26; v. 265; p. 503.
- McKnight, Elliott J. (See Maier and McKnight.)
- McKnight, Oscar W., assignor to The Brunt Tile and Porcelain Company, Columbus, Ohio. Spur-forming machine. No. 1,314,682; Sept. 2; v. 266; p. 40.
- McKnight, Robert, Pittsburgh, Pa. Making compounds of the rare metals. No. 1,306,070; June 10; v. 263; p. 188.
- McKnight, Robert, Pittsburgh, Pa. Making compounds of rare metals. No. 1,308,911; July 8; v. 264; p. 194.
- McKnight, Sam B., Milano, Tex. Gate-latch. No. 1,326,278; Dec. 30; v. 269; p. 733.
- McKnight, Thomas R., Phippsburg, and J. M. Bailey, Oak Creek, Colo. Beet-harvesting machine. No. 1,295,340; Feb. 25; v. 259; p. 638.
- McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Vehicle-axle. No. 1,306,115; June 10; v. 263; p. 197.
- McKnight, Thomas W., et al. (See Muir, David E., assignor.)
- McKoy, Edwin A., New Orleans, La. Cutter-head. No. 1,313,710; Aug. 19; v. 265; p. 401.
- McKoy, Edwin A., and G. D. Moore, New Orleans, La. Disintegrating and conserving mechanism. No. 1,312,450; Aug. 5; v. 265; p. 112.
- McKoy, Edwin A., and G. D. Moore, New Orleans, La. Stump-harvester. No. 1,313,708; Aug. 19; v. 265; p. 400.
- McKoy, Edwin A., and G. D. Moore, New Orleans, La. Method of harvesting stumps. No. 1,313,709; Aug. 19; v. 265; p. 401.
- McLachlan, James C., and J. Ruckstinat, Toronto, Ontario, Canada. Tractor. No. 1,325,366; Dec. 16; v. 269; p. 509.
- McLachlan, John D., Strathroy, Ontario, Canada. Ventilating and humidifying apparatus. No. 1,314,824; Sept. 2; v. 266; p. 65.
- McLafferty, Peter R., New Castle, Pa. Toy. No. 1,295,779; Feb. 25; v. 259; p. 740.
- McLain, Andrew, Carnegie, Pa. Spike-puller. No. 1,326,758; Dec. 30; v. 269; p. 824.
- McLain, Finis H., University Place, Nebr. Lawn-mower. No. 1,315,977; Sept. 16; v. 266; p. 298.
- McLain, John E. (See Hollis, Joseph, assignor.)
- McLain, Robert H., and J. Eaton, Schenectady, N. Y., assignors to General Electric Company. Motor-control system. No. 1,306,548; June 10; v. 263; p. 279.
- McLanahan, Austin. (See Potts, Louis M., assignor.)
- McLane, John W., Washington, D. C. Preparing dried sweet corn. No. 1,297,204; Mar. 11; v. 260; p. 347.
- McLaren, Alexander, Dayton, Ohio. Ice-cream-cone dispenser. No. 1,297,205; Mar. 11; v. 260; p. 347.
- McLaren, Alexander, Dayton, Ohio. Ice-cream cone and packing same. No. 1,326,519; Dec. 30; v. 269; p. 779.
- McLaren, Alexander, Chicago, Ill. Ice-cream cone and package containing same. No. 1,326,520; Dec. 30; v. 269; p. 779.
- McLaren and Company. (See McLaren, William E., assignor.)
- McLaren, William E., Chicago, Ill. Convertible high chair. No. 1,299,366; Apr. 1; v. 261; p. 170.
- McLaren, William E., assignor to McLaren and Company, Chicago, Ill. Vehicle. No. 1,308,526; July 1; v. 264; p. 94.



## Alphabetical list of patentees—Continued.

- McLaughlin, William D., assignor of one-fourth to P. Zimmerman, one-sixteenth to C. H. Schmude, one-sixteenth to O. R. Schmude, one-sixteenth to M. Rosenthal, one-eighth to A. B. Burgess, and one-sixteenth to T. Hess, Port Huron, Mich. Automobile-extractor. No. 1,303,698; May 13; v. 262; p. 255.
- McLaughlin, Carolina, St. Louis, Mo. Draft-yoke for oxen and cattle. No. 1,307,914; June 24; v. 263; p. 594.
- McLaughlin, Catherine T., New York, N. Y. Attachment for gas-burners. No. 1,320,075; Oct. 28; v. 267; p. 569.
- McLaughlin, E. J., *et al.* (See Rial and Hebern, assignors.)
- McLaughlin, Ewart, Oshawa, Ontario, Canada. Socket for automobile-curtain rods. No. 1,305,478; June 3; v. 263; p. 47.
- McLaughlin, F. C. (See Steele, Clyde W., assignor.)
- McLaughlin, Frank, assignor to De Luxe Brush Company, Philadelphia, Pa. Liquid-dispensing device. No. 1,300,183; Apr. 8; v. 261; p. 382.
- McLaughlin, Harry E., Lincoln, Neb. Gasolene-heater. No. 1,304,896; May 27; v. 262; p. 557.
- McLaughlin, James, Fargo, N. D. Road-machine. No. 1,318,679; Oct. 14; v. 267; p. 256.
- McLaughlin, James A., Jesup, Ga. Hay-curing rack. No. 1,301,145; Apr. 22; v. 261; p. 649.
- McLaughlin, John C., East Orange, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Coin-operated type-writing machine. No. 1,309,294; July 8; v. 264; p. 266.
- McLaughlin, John R., Holbrook, Mass. Last. No. 1,310,762; July 22; v. 264; p. 604.
- McLaughlin, Melvin C., Marlette, Mich. Ditching-machine. No. 1,296,302; Mar. 4; v. 260; p. 110.
- McLaughlin, Wallace, Fort Scott, Kans. Seed-planting device. No. 1,291,973; Jan. 21; v. 258; p. 525.
- McLaughlin, Willard F., Schaller, Iowa. Kitchen-cabinet. No. 1,303,697; May 13; v. 262; p. 255.
- McLaughlin, William E. (See Wilson, Dixon, and McLaughlin.)
- McLaurin, James D., New York, N. Y. Package and packing-box. No. 1,303,489; May 13; v. 262; p. 217.
- McLaurin, James D., South Orange, N. J., assignor to National Binding Machine Company, New York, N. Y. Strip-serving device. No. 1,304,693; May 27; v. 262; p. 519.
- McLay, John, Valleyfield, Quebec, Canada. Violin shoulder-rest. No. 1,296,414; Mar. 4; v. 260; p. 135.
- McLean, Daniel W., Highland Park, assignor of one-half to F. W. Kandt, Detroit, Mich. Car-moving device. No. 1,323,601; Dec. 2; v. 269; p. 71.
- McLean, Embury, Brooklyn, assignor to The Engineer Company, New York, N. Y. Baffle-retaining form. No. 1,319,528; Oct. 21; v. 267; p. 443.
- McLean, Francis H., J. Seline, and B. J. Reddeck, Calgary, Alberta, Canada. Cattle-guard. No. 1,298,527; Mar. 25; v. 260; p. 686.
- McLean, Hugh, Bathurst, New Brunswick, Canada. Valve and valve-seat grinder. No. 1,290,766; Jan. 7; v. 258; p. 182.
- McLean, Warren L., San Francisco, Calif. Fruit and vegetable slicer and peeler. No. 1,304,079; May 20; v. 262; p. 363.
- McLean, William. (See Maw and McLean.)
- McLean, William, New York, N. Y. Method of and means for measuring the hardness or softness of eyes. No. 1,291,050; Jan. 14; v. 258; p. 274.
- McLean, William B. (See Maw and McLean.)
- McLellan, William, *et al.* (See Michie and Weeks, assignors.)
- McLennan, Duncan, Croydon, England. Means for detecting sounds. No. 1,297,206; Mar. 11; v. 260; p. 348.
- McLennan, Edward H. (See Toole, Edward, assignor.)
- McLeod, Bernadine D., Colbert, Wash. Culinary device. No. 1,317,027; Sept. 23; v. 266; p. 543.
- McLeod, Coleman Y., Clarksdale, Miss. Drainage system for concrete cellars, vaults, basements, &c. No. 1,320,256; Oct. 28; v. 267; p. 603.
- McLeod, Edward A., and M. F. Quirk, Springfield, assignors of one-third to H. Quirk, Columbus, Ohio. Valve. No. 1,293,840; Feb. 11; v. 259; p. 233.
- McLeod, John W., Brooklyn, N. Y. Scraper. No. 1,322,033; Nov. 18; v. 268; p. 430.
- McLeod, Kenneth, San Francisco, Calif. Sectional concrete-form. No. 1,322,034; Nov. 18; v. 268; p. 430.
- McLeod, Norman L. (See Harris and McLeod.)
- McLoughlin Brothers. (See Le Massena, Andrew, assignor.)
- McLoughlin, Joseph. (See O'Brien and McLoughlin.)
- McMahon, Delbert L., assignor of one-fourth to M. G. Ives, Des Moines, Iowa. Machine for cleaning and repairing radiators. No. 1,297,580; Mar. 18; v. 260; p. 457.
- McMahon, Robert P., Pittsburgh, Pa. Indicator. No. 1,303,699; May 13; v. 262; p. 256.
- McMahon, Luke A., Birmingham, Ala., assignor, by mesne assignments, to Refrigeration Patent Syndicate, Means for protecting perishable goods in transit. No. 1,294,503; Feb. 18; v. 259; p. 423.
- McMahon, Edward M., and F. W. Ackerman, Elmira, N. Y. Train-despatching system. No. 1,294,928; Feb. 18; v. 259; p. 522.
- McMahon, Elmer C., Brothers, Oreg. Tool-handle. No. 1,301,287; Apr. 22; v. 261; p. 678.
- McMahon, John R. (See Stafford, Edward B., assignor.)
- McMahon, John W., Winthrop, Mass. Window-fastener. No. 1,314,488; Aug. 26; v. 265; p. 583.
- McMahon, Patrick J. (See Vale, Ronning, and Drake, assignors.)
- McManigal, Robert D., Jr., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,303,349; May 13; v. 262; p. 192.
- McMann, Margaret H., New York, N. Y. Nipple. No. 1,297,207; Mar. 11; v. 260; p. 348.
- McManus, Charles E., New York, N. Y. Compressing and packing machine. No. 1,298,749; Apr. 1; v. 261; p. 30.
- McManus, Lewis R., Houston, Tex. Vehicle-indicator. No. 1,313,398; Aug. 19; v. 265; p. 342.
- McMeeken, Milo S., Mansfield, Ohio. Combined track and switch mechanism. No. 1,296,989; Mar. 11; v. 260; p. 301.
- McMeekin, Thomas J., Jacksonville, Fla. Valve grinding and reseating tool. No. 1,326,759; Dec. 30; v. 269; p. 824.
- McMichael, James D., and F. H. Clement, Rochester, N. Y. Segment-jointing attachment for saw-benches. No. 1,299,367; Apr. 1; v. 261; p. 170.
- McMillan, Edward E., Jersey City, N. J. Web-measuring device. No. 1,323,402; Dec. 2; v. 269; p. 34.
- McMillan, Frank, Glenellyn, Ill., assignor, by mesne assignments, to National Drop Head Projector Company, Fond du Lac, Wis. Motion-picture machine. No. 1,326,407; Dec. 30; v. 269; p. 757.
- McMillan, Frank, Glenellyn, Ill., assignor, by mesne assignments, to National Drop Head Projector Company, Fond du Lac, Wis. Optical projecting apparatus. No. 1,326,408; Dec. 30; v. 269; p. 757.
- McMillan, Frank, Glenellyn, Ill., assignor, by mesne assignments, to National Drop Head Projector Company, Fond du Lac, Wis. Safety-shutter. No. 1,326,409; Dec. 30; v. 269; p. 757.
- McMillan, Frank, Glenellyn, Ill., assignor, by mesne assignments, to National Drop Head Projector Company, Fond du Lac, Wis. Film-reeling mechanism. No. 1,326,410; Dec. 30; v. 269; p. 758.
- McMillan, George T., Brookings, S. D. Cushioned wheel. No. 1,293,145; Feb. 4; v. 259; p. 40.
- McMillan, George T., Brookings, S. D. Electric priming-cock. No. 1,297,581; Mar. 18; v. 260; p. 457.
- McMillan, John J., New York, N. Y. School-desk. No. 1,296,415; Mar. 4; v. 260; p. 135.
- McMillan, John L., Syracuse, N. Y. Envelop sealing and opening machine. No. 1,317,517; Sept. 30; v. 266; p. 672.
- McMillan, John L., Syracuse, N. Y. Envelop-opening machine. No. 1,317,804; Oct. 7; v. 267; p. 27.
- McMillin, Oliver B., Pittsburgh, Pa., assignor to Pittsburgh Rolls Corporation. Manufacturing rolls. No. 1,296,200; Mar. 4; v. 260; p. 88.
- McMillan & Werner. (See Nurock, Adolph B., assignor.)
- McMillan, William G., Los Angeles, Calif. Direction-indicator. No. 1,314,084; Aug. 26; v. 265; p. 506.
- McMillan, William J., Philadelphia, Pa. Box-partition-assembling machine. No. 1,311,609; July 29; v. 264; p. 794.
- McMorran, Matthew H., Paisley, Ontario, Canada. Cultivator. No. 1,293,146; Feb. 4; v. 259; p. 40.
- McMullen, Frederick E. (See Stewart and McMullen.)
- McMullen, John, Buffalo, N. Y. Journal-box-packing retainer. No. 1,303,933; May 20; v. 262; p. 337.
- McMullen, Robert G., Portland, Oreg. Tire for vehicle-wheels. No. 1,305,819; June 3; v. 263; p. 111.
- McMullin Automatic Top Company, The. (See McMullin, Harry W., assignor.)
- McMullin, Harry W., assignor to The McMullin Automatic Top Company, Denver, Colo. Lock for automobile-tops. No. 1,320,333; Oct. 28; v. 267; p. 617.
- McMullin, Harry W., assignor to The McMullin Automatic Top Company, Denver, Colo. Means for operating automobile-tops. No. 1,323,537; Dec. 2; v. 269; p. 59.
- McMullin, Robert M. (See Gooch, Bert, assignor.)
- McMunn, Alexander, Philadelphia, Pa. Warping-mill apparatus. No. 1,323,538; Dec. 2; v. 269; p. 60.
- McMurphy, Charles C., Casa Grande, Ariz. Wire-stretcher. No. 1,293,493; Feb. 4; v. 259; p. 120.
- McMurray, Harry G., Lewiston, Me., assignor to I. L. Keith, Haverhill, Mass. Cementing-machine. No. 1,293,147; Feb. 4; v. 259; p. 40.
- McMurray, Harry G., Manchester, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Art of setting fastening means in shoes. No. 1,302,942; May 6; v. 262; p. 88.
- McMurry, Fred R., Westwood, N. J., assignor to Western Electric Company, New York, N. Y. Telegraph system. No. 1,324,838; Dec. 16; v. 269; p. 412.
- McMurtrey, Frank. (See Bergman and McMurtrey.)
- McMurtrie, Thomas A., assignor of two-thirds to J. A. Flahive, Los Angeles, Cal. Pipe-making machine. No. 1,297,208; Mar. 11; v. 260; p. 348.



- McMurtry, Alden L., Sound Beach, Conn., assignor to Lovell-McConnell Manufacturing Company, Newark, N. J. Diaphragm-horn. No. 1,299,201; Apr. 1; v. 261; p. 133.
- McMurtry, Alden L., Sound Beach, Conn., assignor, by mesne assignments, to Lovell-McConnell Manufacturing Company. Diaphragm-horn and means for operating the same. No. 1,309,764; July 15; v. 264; p. 390.
- McMurtry, Edward A., Chicago, Ill. Expression organ-keyboard. No. 1,313,711; Aug. 19; v. 265; p. 401.
- McMyler Interstate Company, The. (See McMyler, John, assignor.)
- McMyler, John, Cleveland, assignor, by mesne assignments, to The McMyler Interstate Company, Bedford, Ohio. Hoisting and conveying apparatus. No. 1,296,201; Mar. 4; v. 260; p. 88.
- McNab, Alexander, Bridgeport, Conn. Tail-shaft mounting. No. 1,315,677; Sept. 9; v. 266; p. 228.
- McNabb, Arthur E., Monessen, Pa. Car-coupling. No. 1,325,897; Dec. 23; v. 269; p. 626.
- McNabb, William F., Pittsburgh, Pa. Heat-producing compound. No. 1,309,209; July 8; v. 264; p. 250.
- McNabney, James R., and C. E. Andrews, Kokomo, Ind. Gate. No. 1,298,072; Mar. 25; v. 260; p. 587.
- McNair, William B., Harrisburg, Pa. Valve mechanism for engines. No. 1,326,521; Dec. 30; v. 269; p. 780.
- McNamara, Dennis J. (See Charland, Ernest, assignor.)
- McNamara, John F., Danbury, Conn. Antiskid attachment for automobiles. No. 1,306,385; June 10; v. 263; p. 249.
- McNary, William R., Detroit, Mich. Signaling system. No. 1,316,312; Sept. 16; v. 266; p. 361.
- McNaught, Robert P., San Francisco, Calif. Railway signaling. No. 1,325,304; Dec. 16; v. 269; p. 499.
- McNaughton, Don A., Maryville, Tenn. Combustion-indicator. No. 1,311,905; Aug. 5; v. 265; p. 10.
- McNaughton, Robert I., Minot, N. D. Sack-holder. No. 1,312,336; Aug. 5; v. 265; p. 89.
- McNear, Fred W., Menlo Park, and P. E. Bowles, Jr., Redwood, Calif. Apparatus for dehydrating oil. No. 1,297,378; Mar. 18; v. 260; p. 414.
- McNeel, Grant, North Platte, Nebr. Pocket check-protector. No. 1,298,073; Mar. 25; v. 260; p. 587.
- McNeel, William P., San Antonio, Tex. Speed-regulator. No. 1,302,821; May 6; v. 262; p. 64.
- McNeely, Thomas L., Colfax, La. Reel. No. 1,323,602; Dec. 2; v. 269; p. 71.
- McNeill, Angus, Gloucester, Mass. Collapsible boat. No. 1,303,700; May 13; v. 262; p. 256.
- McNeill, Chester, assignor to Union Special Machine Company, Chicago, Ill. Bag or sack. No. 1,291,974; Jan. 21; v. 258; p. 525.
- McNeill, Chester, assignor to Union Special Machine Company, Chicago, Ill. Presser-foot for sewing-machines. No. 1,300,854; Apr. 15; v. 261; p. 550.
- McNeill, Daniel W., assignor to The John Douglas Company, Cincinnati, Ohio. Machine for molding ceramics. No. 1,302,191; Apr. 29; v. 261; p. 880.
- McNeill, Daniel W., assignor to The John Douglas Company, Cincinnati, Ohio. Molding ceramics. No. 1,311,410; July 29; v. 264; p. 757.
- McNeill, John, Glasgow, Scotland. Ellipsograph. No. 1,304,494; May 20; v. 262; p. 443.
- McNeill, John, Los Angeles, Calif. Non-skid attachment for automobiles. No. 1,309,039; July 8; v. 264; p. 219.
- McNeill, John D., Trenton, Nova Scotia, Canada. Torpedoguard. No. 1,308,716; July 1; v. 264; p. 130.
- McNeill, Roderick P., Seattle, Wash. Scraper. No. 1,312,128; Aug. 5; v. 265; p. 52.
- McNeill, Aaron, *et al.* (See Ricke, George H., assignor.)
- McNeill Chair Company. (See McNeill, Harry, assignor.)
- McNeill, Dennis, Huntington, W. Va. Combined camera and changeable exhibitor. No. 1,295,544; Feb. 25; v. 259; p. 687.
- McNeill, Donald S., Glasgow, Scotland. Dook, holdfast, and foundation-pin. No. 1,318,680; Oct. 14; v. 267; p. 256.
- McNeill, George, Detroit, Mich., assignor to Morgan & Wright. Bead cementing and reeling machine. No. 1,296,990; Mar. 11; v. 260; p. 302.
- McNeill, George, Detroit, Mich., assignor to Morgan & Wright. Bead-wrapping apparatus. No. 1,296,991; Mar. 11; v. 260; p. 302.
- McNeill, George, assignor to Morgan & Wright, Detroit, Mich. Bead-drying apparatus. No. 1,308,292; July 1; v. 264; p. 52.
- McNeill, Harry, assignor to McNeill Chair Company, Sheboygan, Wis. Combination telephone-support and chair. No. 1,313,494; Aug. 19; v. 265; p. 360.
- McNeilly, Henry R., Toronto, Ontario, Canada. Rug-extractor. No. 1,307,559; June 24; v. 263; p. 550.
- McNichol, Donald, New York, and W. O. Powers, Jr., Ossining, assignors of one-half to Postal Telegraph-Cable Company, New York, N. Y. Relay for telegraph and other electric circuits. No. 1,322,254; Nov. 18; v. 268; p. 471.
- McNicol, Forrest, Milwaukee, Wis. Self-propelled terrestrial torpedo. No. 1,307,406; June 24; v. 263; p. 502.
- McNicol, Roy, Lanark, Ontario, Canada. Belt-fastener. No. 1,300,437; Apr. 15; v. 261; p. 462.
- McNulty, James A. (See Jessen, James, assignor.)
- McNulty, Thomas E., San Francisco, Cal. Chair and desk attachment. No. 1,291,975; Jan. 21; v. 258; p. 525.
- McNulty, Thomas E., San Francisco, Cal. Tubular steel desk-frame. No. 1,291,976; Jan. 21; v. 258; p. 525.
- McNulty, Thomas E., San Francisco, Calif. Ballot-box. No. 1,313,101; Aug. 12; v. 265; p. 270.
- McNutt, Lewis, Brazil, Ind. Meter yoke and box. No. 1,310,400; July 15; v. 264; p. 506.
- McOsker, Stephen D. (See Smith, McOsker, and Simpson.)
- McPeak, Pressley P., and Bert A. Rains, Willits, Calif. Tire-holder. No. 1,317,584; Sept. 30; v. 266; p. 686.
- McPhail, Archibald, Fargo, N. D. Reinforcement and fastening. No. 1,322,802; Nov. 25; v. 268; p. 626.
- McPhail, James, Lowellville, Ohio. Steam-boiler. No. 1,291,578; Jan. 14; v. 258; p. 396.
- McPhee, John. (See Hackett, William, assignor.)
- McPherson, Alexander, Windsor, Nova Scotia, assignor of one-half to W. O'Neill, St. John, New Brunswick, Canada. Tree-sawing machine. No. 1,305,479; June 3; v. 263; p. 47.
- McPherson, Alexander R., and E. H. Munro, assignors to Windsor Foundry and Machine Company Ltd., Windsor, Nova Scotia, Canada. Power-drive for ships' hoisting and pumping machinery. No. 1,298,074; Mar. 25; v. 260; p. 587.
- McPherson, Duncan A., *et al.* (See Sjogren, George, assignor.)
- McPherson, Elmer T., assignor to The Irwin Auger Bit Company, Wilmington, Ohio. Bit. No. 1,299,490; Apr. 8; v. 261; p. 227.
- McPherson, Thomas C., assignor to Keystone Wire Matting Co., Beaver Falls, Pa. Running-board mat. No. 1,291,977; Jan. 21; v. 258; p. 525.
- McQuarrie, James L. (See Scribner and McQuarrie.)
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switching apparatus for telephone-exchange systems. No. 1,290,616; Jan. 7; v. 258; p. 145.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,291,978; Jan. 21; v. 258; p. 526.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,292,839; Jan. 28; v. 258; p. 753.
- McQuarrie, James L., Montclair, N. J., assignor to The Keepsafe Company, New York, N. Y. Safety-chest for containing valuables. No. 1,291,051; Jan. 14; v. 258; p. 274.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,293,494; Feb. 4; v. 259; p. 120.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange. No. 1,296,680; Mar. 11; v. 260; p. 230.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,298,365; Mar. 25; v. 260; p. 649.
- McQuarrie, James L., Montclair, N. J., and H. P. Clausen, Mount Vernon, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,296,679; Mar. 11; v. 260; p. 230.
- McQuarrie, James L., Montclair, N. J., and C. L. Goodrum, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,298,237; Mar. 25; v. 260; p. 623.
- McQuay-Norris Manufacturing Company. (See Cummings and Mummert, assignors.)
- McQuay-Norris Manufacturing Company. (See Mummert, Arden J., assignor.)
- McQuay-Norris Manufacturing Company. (See Mummert and Woodbridge, assignors.)
- McQueen, Finlay R., Minneapolis, Minn. Means for raising concrete-molds. No. 1,297,883; Mar. 18; v. 260; p. 521.
- McQueen, James W., Detroit, Mich. Rotary motor. No. 1,321,932; Nov. 18; v. 268; p. 411.
- McQueen, Ulysses G., New York, N. Y. Hanger. No. 1,322,918; Nov. 25; v. 268; p. 647.
- McQueen, Ulysses G., New York, N. Y. Ventilator. No. 1,324,973; Dec. 16; v. 269; p. 436.
- McQueeny, John F., Kansas City, Mo. Traveler's check. No. 1,307,560; June 24; v. 263; p. 530.
- McQueston, Frank S., assignor to W. M. Whitney, Winchendon, Mass. Rotary cutter. No. 1,315,978; Sept. 16; v. 266; p. 299.
- McQuillin, William S., Kenmore, N. Y. Lifting-jack. No. 1,320,402; Nov. 4; v. 268; p. 9.
- McQuivey, William H., and G. A. Keating, Buffalo, N. Y. Demountable wheel. No. 1,312,859; Aug. 12; v. 265; p. 222.
- McReynolds, Samuel and T. J., Philadelphia, Pa. Signaling device. No. 1,293,841; Feb. 11; v. 259; p. 233.
- McReynolds, Thomas J. (See McReynolds, Samuel and T. J.)



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- McSherry, James W., Duquoin, Ill. Controlling apparatus for elevators and other devices. No. 1,309,648; July 15; v. 264; p. 369.
- McSweeney, Frank H. (See Meyers, Campbell, and McSweeney.)
- McTaggart, Angus L., Pittsburgh, Pa. Tractor. No. 1,298,986; Apr. 1; v. 261; p. 86.
- McTaggart, Angus L., Pittsburgh, Pa. Parallel-ruler. No. 1,322,592; Nov. 25; v. 268; p. 587.
- McTavish, Harry, Eldon, Prince Edward Island, Canada. Holdback device for vehicle-poles. No. 1,297,209; Mar. 11; v. 260; p. 348.
- McVay, Cecilia D., Philadelphia, Pa. Phonographic-disk-record cabinet. No. 1,302,943; May 6; v. 262; p. 88.
- McVoy, George, Scotch Plains, N. J. Quick-attachable pipe-union. No. 1,308,853; July 8; v. 264; p. 180.
- McVoy, Vincen P., assignor of one-half to J. M. Walsh, Mobile, Ala. Bottle-guide for filling-machines. No. 1,315,140; Sept. 2; v. 266; p. 121.
- McVoy, Vincen P., Mobile, Ala. Lubricator. No. 1,315,141; Sept. 2; v. 266; p. 121.
- McVicker, Emory M., assignor of one-half to J. F. McVicker, Milwaukee, Wis. Railway-tie plate and fastening and anticreeper. No. 1,319,168; Oct. 21; v. 267; p. 375.
- McVicker, J. F. (See McVicker, Emory M., assignor.)
- McWane, Charles W., Lynchburg, Va. Plow. No. 1,295,545; Feb. 25; v. 259; p. 687.
- McWhorter, Allen, Riverton, N. J. Potato-planter. No. 1,314,683; Sept. 2; v. 266; p. 40.
- McWhorter Manufacturing Company. (See Hendrickson, William A., assignor.)
- McWilliam, Alexander. (See McWilliam, George W. and A.)
- McWilliam, George W. and A., Bolton, England. Bed for lathes and grinding and like machines. No. 1,293,148; Feb. 4; v. 259; p. 40.
- McWilliams, Arthur C. (See Jensen, Jean S., assignor.)
- McWilliams, Arthur C., Chicago, Ill., assignor to George Cutter Company, South Bend, Ind. Film-socket for series lamps. No. 1,314,008; Aug. 26; v. 265; p. 491.
- McWilliams, Robert H., Memphis, Tenn. Excavating-shovel. No. 1,325,027; Dec. 16; v. 269; p. 446.
- McWilliams, William W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Production of sound-record tablets. No. 1,323,197; Nov. 25; v. 268; p. 701.
- Mencham, Benjamin E., Lorain, Ohio, assignor to The American Stove Company, St. Louis, Mo. Heat and damper regulator for gas-ovens. No. 1,300,990; Apr. 15; v. 261; p. 579.
- Meacham, William M., Seattle, Wash. Generating radiant energy and projecting same through free air for producing heat. No. 1,317,883; Oct. 7; v. 267; p. 42.
- Mead, Carl F. (See Laidley, William E., assignor.)
- Mead Cycle Company. (See Lewis, George S., assignor.)
- Mead, Edward S. (See Goulding, Albanus W., assignor.)
- Mead, Ezra B., assignor to Ottumwa Iron Works, Ottumwa, Iowa. Brake-operating mechanism. No. 1,301,290; Apr. 22; v. 261; p. 678.
- Mead, Francis. (See Duffies and Mead.)
- Mead, Fred J., Newark, N. J. Greenhouse-bench. No. 1,296,684; Mar. 11; v. 260; p. 231.
- Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond and manufacturing it. No. 1,297,381; Mar. 18; v. 260; p. 415.
- Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,297,382; Mar. 18; v. 260; p. 415.
- Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,297,383; Mar. 18; v. 260; p. 415.
- Mead, Samuel W., Weston, Mass. Air-ventilation system. No. 1,324,059; Dec. 9; v. 269; p. 201.
- Meaden, Alfred G., Montreal, Canada. Journal-bearing. No. 1,298,242; Mar. 25; v. 260; p. 624.
- Meador, R. A. (See Weaver, Samuel, assignor.)
- Meadows, Thomas C., New York, N. Y. Fertilizer. No. 1,304,082; May 20; v. 262; p. 364.
- Meadows, Thomas C., New York, N. Y. Producing high-phosphorus pig-iron. No. 1,322,038; Nov. 18; v. 268; p. 431.
- Meadows, Thomas C., New York, N. Y., and F. L. Sample, Teaneck, N. J., assignors to American Potash Corporation, New York, N. Y. Digesting finely-divided materials. No. 1,326,412; Dec. 30; v. 269; p. 758.
- Meadows, Vaughn H., assignor to Mrs. M. O. Smith, Los Angeles, Cal. Water seal for cooking and sterilizing vessels. No. 1,290,771; Jan. 7; v. 258; p. 183.
- Meadville Wrench Company. (See Smith, Edward C., assignor.)
- Meagher, Mary A., New York, N. Y. Thread-cutter. No. 1,290,629; Jan. 7; v. 258; p. 149.
- Meahl, Philip J., Summit, N. J. Operating and controlling mechanism for player-pianos. No. 1,312,194; Aug. 5; v. 265; p. 64.
- Meahl, Philip J., Summit, N. J. Player-piano. No. 1,312,195; Aug. 5; v. 265; p. 65.
- Meahl, Philip J., Summit, N. J. Mechanism for player-pianos. No. 1,312,196; Aug. 5; v. 265; p. 65.
- Meaker Galvanizing Co. (See Miller, Constantine G., assignor.)
- Meakin, Edgar T., Berkeley, and F. E. Booth, San Francisco, Calif. Steam-cooker. No. 1,307,508; June 24; v. 263; p. 521.
- Mears, Clem B., et al. (See McKeever, Charles, assignor.)
- Measuregraph Company, The. (See Hosch, Walter E., assignor.)
- Mebane, Charles P., assignor, by mesne assignments, to E. C. Hiett, Cleveland, Ohio. Carbonizing compound and making the same. No. 1,310,918; July 22; v. 264; p. 632.
- Mebane, Charles P., Cleveland, Ohio, assignor to The Carbonizing Engineering Company. Composition for case-hardening. No. 1,312,339; Aug. 5; v. 265; p. 90.
- Mechanical Belt Company. (See Crowe, John, assignor.)
- Mechanical Efficiency Company. (See Gehring and Caden, assignors.)
- Mechanical Improvement Company. (See de Martino, Joseph, assignor.)
- Mechanical Rubber Company, The. (See Morron, John D., assignor.)
- Mechanical Utilities Corporation. (See Line, Charles, assignor.)
- Mechano Gear Shaft Company. (See Richardson, Bayard E., assignor.)
- Mechling, Elizabeth C., New York, N. Y., assignor to Melville Clark Piano Company, Chicago, Ill. Player-piano and phonograph. No. 1,311,663; July 29; v. 264; p. 804.
- Meckley, Harry S., Harrisburg, and F. J. Lamke, Steelton, Pa.; said Lamke assignor to said Meckley. Pistoning reducer. No. 1,317,720; Oct. 7; v. 267; p. 12.
- Medanich, Daniel B., Buechel, Ky. Oiling system for internal-combustion motors. No. 1,299,757; Apr. 8; v. 261; p. 288.
- Medanich, Daniel B., Buechel, Ky. Valve-movement. No. 1,326,208; Dec. 30; v. 269; p. 720.
- Medart, Philip S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Back-stop. No. 1,309,806; July 15; v. 264; p. 398.
- Medearis, Noble R., Winston-Salem, N. C. Index for rubber stamps. No. 1,325,569; Dec. 23; v. 269; p. 565.
- Medgyes, Charles, Budapest, Hungary. Apparatus for carrying out gaseous reactions under high pressure. No. 1,295,917; Mar. 4; v. 260; p. 22.
- Meditz, Joseph, Brooklyn, N. Y. Spring. No. 1,308,601; July 1; v. 264; p. 108.
- Medley, Harry L., Los Angeles, Calif., assignor of one-third to H. G. Hamilton, Youngstown, Ohio. Artificial bait. No. 1,312,451; Aug. 5; v. 265; p. 113.
- Medynski, Fred V., Medford, Oreg. Vehicle-wheel. No. 1,316,377; Sept. 16; v. 266; p. 373.
- Meeder, Herbert L., assignor of one-half to L. S. Hall, Denver, Colo. Internal-combustion engine. No. 1,310,919; July 22; v. 264; p. 632.
- Meehan, Frank W., New York, N. Y. Seal-lock. No. 1,317,805; Oct. 7; v. 267; p. 27.
- Meehan, Edward F., Fort Wadsworth, N. Y. Surgical bandage. No. 1,319,299; Oct. 21; v. 267; p. 399.
- Meehan, Thomas, Mason, Nev. Spring-wheel. No. 1,323,895; Dec. 2; v. 269; p. 127.
- Meek, Adam W., Mascot, Tenn. Station-indicator. No. 1,295,554; Feb. 25; v. 259; p. 689.
- Meek, Oscar. (See Atherton and Meek.)
- Meek, Walter W., Lynnville, Tenn. Rail-tie and coupling. No. 1,298,991; Apr. 1; v. 261; p. 87.
- Meekin, James, Huntington, Ind. Wheel-hub. No. 1,322,039; Nov. 18; v. 268; p. 431.
- Meem, James C., assignor of one-half to Frederick L. Cranford, Brooklyn, N. Y. Process and apparatus for filling in excavations. No. 1,326,364; Dec. 30; v. 269; p. 749.
- Megahan, Oliver P., Westerville, Ohio. Insulator-support. No. 1,295,918; Mar. 4; v. 260; p. 22.
- Megary, Harry H., Toronto, Ontario, Canada. Hose-supporter. No. 1,291,062; Jan. 14; v. 258; p. 277.
- Megevet, Charles J., and L. Picker, Geneva, Switzerland. Lubricating device for internal-combustion engines. No. 1,304,498; May 20; v. 262; p. 444.
- Megill, Edward L., New York, N. Y. Feed-gage for use on printing-presses. No. 1,324,684; Dec. 9; v. 269; p. 321.
- Megosin Company. (See Sinclair, John J., assignor.)
- Mehren, Jacob F., Chicago, Ill. Ink-fed marking device. No. 1,296,305; Mar. 4; v. 260; p. 111.
- Meier, Charlotta I., administratrix. (See Meier, Edward C.)
- Meier Dental Manufacturing Company, The. (See Rodgers, Frank C., assignor.)
- Meier, Edward C., deceased; C. I. Meier, administratrix, assignor to Heine Safety Boiler Company, Phoenixville, Pa. Convertible boiler. No. 1,304,499; May 20; v. 262; p. 444.
- Meier, Edward C., deceased; C. I. Meier, administratrix, assignor to Heine Safety Boiler Company, Phoenixville, Pa. Header construction for boilers. No. 1,304,500; May 20; v. 262; p. 445.
- Meier, Erling, Christiania, Norway. Roller-bearing. No. 1,302,825; May 6; v. 262; p. 65.
- Meier, Marcel, Los Angeles, Cal. Adjustable violin shoulder-support. No. 1,296,831; Mar. 11; v. 260; p. 264.



- Meighan, Edward S., assignor of forty-eight one-hundredths to A. F. Albert, Memphis, Tenn. Paper-ruling machine. No. 1,293,852; Feb. 11; v. 259; p. 235.
- Meigs, Charles H., Philadelphia, Pa., assignor to MacAndrews & Forbes Company, Camden, N. J. Fire-extinguishing apparatus. No. 1,293,853; Feb. 11; v. 250; p. 236.
- Meigs, Charles H., Philadelphia, Pa., assignor to MacAndrews & Forbes Company, Camden, N. J. Fire-extinguishing apparatus. No. 1,312,559; Aug. 12; v. 265; p. 163.
- Meigs, Charles H., Philadelphia, Pa., assignor, by mesne assignments, to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing apparatus. No. 1,296,993; Mar. 11; v. 260; p. 302.
- Meigs, Charles H., Philadelphia, Pa., assignor, by mesne assignments, to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing apparatus. No. 1,319,101; Oct. 21; v. 267; p. 361.
- Meigs, Curtis C., *et al.* (See Bassett, Harry P., assignor.)
- Meigs, Joseph V. (See Forrest and Meigs.)
- Meikleham, William J., Denver, Colo. Fan-belt retainer. No. 1,313,829; Aug. 19; v. 265; p. 423.
- Meiklejohn, James, Lockport, N. Y. Safety appliance for weaving-machines. No. 1,316,914; Sept. 23; v. 266; p. 522.
- Meiklejohn, Thomas W., Fond du Lac, Wis. Service-truck. No. 1,322,595; Nov. 25; v. 268; p. 588.
- Meiklerleid, Duncan G. (See Parker, Davy, and Meiklerleid.)
- Mellicke, Carl A., Chicago, Ill. Projectile. No. 1,290,275; Jan. 7; v. 258; p. 63.
- Meilink, Charles F., Toledo, Ohio. Electric welding. No. 1,312,039; Aug. 5; v. 265; p. 35.
- Meinersmann, William, Elizabeth, N. J. High-velocity gun. No. 1,326,763; Dec. 30; v. 269; p. 825.
- Meinke, Edward J., Chicago, Ill. Illuminative tool. No. 1,309,863; July 8; v. 264; p. 278.
- Meinzolt, Carl C., Paddington, New South Wales, Australia. Piano sounding-board. No. 1,299,203; Apr. 1; v. 261; p. 134.
- Meis, Jesse. (See Moorehous, Byron E., assignor.)
- Meisel, Harry J., Butte, Mont. Automatic safety-door for mines. No. 1,322,923; Nov. 25; v. 268; p. 648.
- Meisericke, Erwin, Lockport, N. Y. Automatic train control. No. 1,312,919; Aug. 12; v. 265; p. 233.
- Meissner, Alexander. (See Von Arco and Meissner.)
- Meissner, George R., Dexter, Iowa. Spark-plug intensifier. No. 1,310,427; July 22; v. 264; p. 542.
- Meitner, Elemer. (See Sperry and Meitner.)
- Meitner, Elemer, assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Single-gyro-stabilized pendulum. No. 1,324,128; Dec. 9; v. 269; p. 214.
- Meltz, August W., assignor of one-half to W. L. Kellogg, Parson, Kans. Arc-milling machine. No. 1,293,614; Feb. 4; v. 259; p. 148.
- Meklenburg, Wincenty P., Adena, Ohio. Rail-tie. No. 1,306,968; June 17; v. 263; p. 389.
- Meklenburg, Wincenty P., Adena, Ohio. Garbage-receptacle. No. 1,313,003; Aug. 12; v. 265; p. 250.
- Mellanson, Philip P., Moncton, New Brunswick, Canada. Roof-bracket. No. 1,306,434; June 10; v. 263; p. 258.
- Melaun, Helmut, Indianapolis, Ind. Electric-light socket. No. 1,303,096; May 6; v. 262; p. 118.
- Melcher, George S., Sharon, Mass., assignor to Mason Regulator Company. Pressure-regulator. No. 1,291,063; Jan. 14; v. 258; p. 277.
- Melcher, Lee W., assignor to La Crosse Tractor Co., La Crosse, Wis. Traction-wheel. No. 1,305,229; May 27; v. 262; p. 620.
- Melcher, Lee W., assignor to La Crosse Tractor Co., La Crosse, Wis. Lubricating device for engines. No. 1,307,204; June 17; v. 263; p. 431.
- Melcher, Lee W., assignor to La Crosse Tractor Co., La Crosse, Wis. Tractor. No. 1,318,785; Oct. 14; v. 267; p. 275.
- Melchert, Charles A., and H. A. Kohls, assignors to Automatic Machine Mfg. Co., Kansas City, Mo. Package-vending machine. No. 1,301,074; Apr. 15; v. 261; p. 599.
- Melerski, Joseph, Detroit, Mich. Slicer. No. 1,320,261; Oct. 28; v. 267; p. 604.
- Melhope, Clarence E., trustee. (See Burkell and Fosnot, assignors.)
- Melia, Martin, assignor to Commercial Truck Company of America, Philadelphia, Pa. Battery-tray. No. 1,290,487; Jan. 7; v. 258; p. 115.
- Melick, Harry V., Columbus, Ohio. Scoop. No. 1,320,885; Nov. 4; v. 268; p. 99.
- Melland, Nels, Sawyer, Wis. Seed-drill. No. 1,291,995; Jan. 21; v. 258; p. 529.
- Mellen, Grenville, West Orange, assignor to Continuous Casting Corporation, Newark, N. J. Continuous casting-machine. No. 1,321,658; Nov. 11; v. 268; p. 309.
- Mellin, Gustaf A. E., Los Angeles, Calif. Adjustable gear-shift lever for automobiles and the like. No. 1,301,475; Apr. 22; v. 261; p. 713.
- Melling, Herman W., Jackson, Mich. Wheel. No. 1,325,258; Dec. 16; v. 269; p. 490.
- Mellinger, Aaron, Olivet, S. D. Dirigible headlight. No. 1,318,896; Oct. 14; v. 267; p. 297.
- Mellinger, Edward A., Chicago, Ill. Automatic telephone system. No. 1,306,829; June 17; v. 263; p. 363.
- Mellinger, Edward F., Canton, Ohio. Kettle-lid. No. 1,305,825; June 3; v. 263; p. 112.
- Mellinger, Edward A., Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Telephone system and apparatus. No. 1,317,522; Sept. 30; v. 266; p. 673.
- Mellis, James M., and C. A. Splayford, Vancouver, British Columbia, Canada. Direction-indicator for road-vehicles. No. 1,321,933; Nov. 18; v. 268; p. 411.
- Mellor, Clarence L., Chicago, Ill., assignor to Barco Brass & Joint Company, Chicago, Ill. Automatic valve for locomotive-blowers. No. 1,291,064; Jan. 14; v. 258; p. 278.
- Mellor, Fred T., Finleyville, Pa. Rail-clamp. No. 1,316,173; Sept. 16; v. 266; p. 334.
- Mellor, Norman. (See Malaby, Ira B., assignor.)
- Mellor, Tom, Brandon, Manitoba, Canada. Blackboard. No. 1,318,681; Oct. 14; v. 267; p. 256.
- Melloy, James H., and W. Owen, assignors of one-third to William Muir and Company Limited, Manchester, England. Machine-tool employing worm-gearing for dividing purposes. No. 1,316,966; Sept. 23; v. 266; p. 531.
- Mellum, Ole H., Union, N. D. Combination pliers and wrench. No. 1,294,689; Feb. 18; v. 259; p. 466.
- Melnick, Joseph, Bayonne, N. J. Footrest for rocking-chairs. No. 1,314,089; Aug. 26; v. 265; p. 507.
- Meloon, Jonathan C., assignor to General Fire Extinguisher Company, Providence, R. I. Pipe-coupling. No. 1,299,371; Apr. 1; v. 261; p. 171.
- Melrose, George C., Redondo Beach, Calif. Silent railway-crossing. No. 1,308,719; July 1; v. 264; p. 131.
- Melrose, Murdock W., North Bellingham, Mass. Valve-spring lifter. No. 1,299,496; Apr. 8; v. 261; p. 228.
- Melson, John C., Eureka, Calif. Box construction. No. 1,318,682; Oct. 14; v. 267; p. 256.
- Melton, John F., Worcester, Mass. Broom. No. 1,291,065; Jan. 14; v. 258; p. 278.
- Melton, Max E., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,317,209; Sept. 30; v. 266; p. 613.
- Melton, Pink J., Memphis, Tex. Maize-header. No. 1,313,004; Aug. 12; v. 265; p. 251.
- Melton, William C., Sherman, Tex. Auto-lock. No. 1,310,362; July 15; v. 264; p. 493.
- Meltzer, Hyman, and L. Karro, Brooklyn, N. Y. Spring knob-lock. No. 1,326,461; Dec. 30; v. 269; p. 768.
- Melville Clark Piano Company. (See Burton, Charles S., assignor.)
- Melville Clark Piano Company. (See Clark, Melville, assignor.)
- Melville Clark Piano Company. (See Mechling, Elizabeth C., assignor.)
- Melvin, Charles H., assignor to Deere & Company, Moline, Ill. Plow. No. 1,306,705; June 17; v. 263; p. 341.
- Menard, Henry J. (See Saxton and Menard.)
- Menco-Elma Syndicate Limited. (See Pollard, George, assignor.)
- Menco-Elma Syndicate Limited, The. (See Reeve, Edward, assignor.)
- Menco-Elma Syndicate Limited, The. (See Wardell, Thomas, assignor.)
- Menchen, Joseph, New York, N. Y. Device for phonographs. No. 1,317,630; Sept. 30; v. 266; p. 694.
- Mendell, Grant E., Chicago, Ill. Ruling device. No. 1,297,217; Mar. 11; v. 260; p. 350.
- Mendelsohn, Willis H., Gardena, Calif. Key-ring holder. No. 1,302,067; Apr. 29; v. 261; p. 858.
- Mendelson, Max, and N. J. Goldfarb, Brooklyn, N. Y., assignors to Brooklyn Braid Company. Means for tying bows. No. 1,308,800; July 8; v. 264; p. 173.
- Mendenhall, Barzillai C., Farmland, Ind. Fender for seeders and planters. No. 1,305,826; June 3; v. 263; p. 112.
- Mendenhall, Carey, Granite City, Ill. Rail-support. No. 1,324,685; Dec. 9; v. 269; p. 321.
- Mendenhall, Charles A., Farmland, Ind. Wheel. No. 1,295,555; Feb. 25; v. 259; p. 689.
- Mendenhall, Charles A., Farmland, Ind. Resilient wheel. No. 1,295,556; Feb. 25; v. 259; p. 690.
- Mendenhall, Clarence M., New Rochelle, N. Y. Nut and bolt lock. No. 1,301,958; Apr. 29; v. 261; p. 837.
- Mendenhall, Frank E., Kilgore, Nebr. Potato-planter. No. 1,298,756; Apr. 1; v. 261; p. 32.
- Mendenhall, Frank E., Kilgore, Nebr. Potato-planter. No. 1,321,226; Nov. 11; v. 268; p. 227.
- Mendizsa, Frank. (See Falconer and Mendizsa.)
- Mendoza, Rafael, Chihuahua, Mexico. Ride. No. 1,294,295; Feb. 11; v. 259; p. 339.
- Menefee, Charles M., assignor to The Menefee Foundry Co., Inc., Fort Wayne, Ind. Foundry pattern composition and process and apparatus for using the same. No. 1,303,097; May 6; v. 262; p. 118.
- Menefee Foundry Co., The. (See Menefee, Charles M., assignor.)
- Menefee, Albert, Alcova, Wyo. Refrigerator-box. No. 1,303,935; May 20; v. 262; p. 337.



## Alphabetical list of patentees—Continued.

- Menge, Anton C., assignor of one-fourth to C. J. Lafttte and one-fourth to A. W. Short, Myrtle Grove, La. Insect-destroying device. No. 1,299,372; Apr. 1; v. 261; p. 171.
- Menges, Theodore C., assignor to Associated Manufacturers Company, Waterloo, Iowa. Bolster-support for cylinders of internal-combustion engines. No. 1,302,691; May 6; v. 262; p. 40.
- Menhall, James W., and C. G. Clement, assignors to Highway Trailer Company, Edgerton, Wis. Vehicle-coupling. No. 1,304,695; May 27; v. 262; p. 520.
- Menhall, James W., and C. G. Clement, assignors to Highway Trailer Company, Edgerton, Wis. Fifth-wheel for vehicles. No. 1,325,697; Dec. 23; v. 269; p. 589.
- Mennig, Charles W., Philadelphia, Pa. Hydrant. No. 1,316,799; Sept. 23; v. 266; p. 501.
- Menin, Joseph I., and A. E. Plauschnat, Philadelphia, Pa. Combined ruler and compasses. No. 1,304,501; May 20; v. 262; p. 445.
- Menk, Rudolph W., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Downdraft attachment for furnaces or heaters. No. 1,291,590; Jan. 14; v. 258; p. 399.
- Menk, Rudolph W., Joliet, assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Kiln-furnace. No. 1,309,213; July 8; v. 264; p. 250.
- Mennen, William G., Newark, N. J. Carton. No. 1,293,502; Feb. 4; v. 259; p. 123.
- Mennen, William G., Newark, N. J. Cardboard powder-box. No. 1,295,997; Mar. 4; v. 260; p. 40.
- Mennesson, Jean, Paris, France. Tailpiece for stringed musical instruments. No. 1,321,227; Nov. 11; v. 268; p. 227.
- Menning, Otto H., Houston, Tex. Vehicle. No. 1,308,636; July 1; v. 264; p. 115.
- Menssen, Siebold R., David City, Nebr. Handy measure. No. 1,317,030; Sept. 23; v. 266; p. 543.
- Mentel, Louis H., Covington, Ky. Phonograph appliance. No. 1,325,648; Dec. 23; v. 269; p. 579.
- Mentzer, John P., Chicago, Ill. Water-color-paint package. No. 1,292,350; Jan. 21; v. 258; p. 616.
- Mentzer, John P., Chicago, Ill. Locking means for chains. No. 1,323,780; Dec. 2; v. 269; p. 104.
- Mercantile Corporation. (See Banzett, William H., assignor.)
- Mercer, Alfonso, Sr., deceased, Norfolk, Va.; W. W. Mercer, administrator. Firearm. No. 1,308,017; June 24; v. 263; p. 614.
- Mercer, Alpheus C., Wilkensburg borough, Pa. Snap-fastener. No. 1,319,102; Oct. 21; v. 267; p. 361.
- Mercer, Charles F. (See Moore and Mercer.)
- Mercer, Frank H., and H. F. H. Blease, Melksham, England. Machine for the manufacture of tire-covers. No. 1,299,497; Apr. 8; v. 261; p. 229.
- Mercer, Henry H. (See Officer and Mercer.)
- Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Channeling-machine. No. 1,304,524; May 20; v. 262; p. 450.
- Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Piston-controlling mechanism. No. 1,313,867; Aug. 19; v. 265; p. 431.
- Mercer, W. W., administrator. (See Mercer, Alfonso, Sr.)
- Merchant, Gerald E., Rochester, N. Y. Electric lamp. No. 1,321,934; Nov. 18; v. 268; p. 412.
- Merchant, Robert L., Tracy, Calif. Beet-harvester. No. 1,315,381; Sept. 9; v. 266; p. 176.
- Merchants Profit Sharing Corporation. (See Jesup, Nelson R., assignor.)
- Mercié, Henri A. (See Squire and Mercié.)
- Mercié, Henri A., assignor to Societe Anonyme des Anciens Etablissements Ketchikiss & Cie., St. Denis, France. Extractor for automatic and other firearms. No. 1,317,587; Sept. 30; v. 266; p. 686.
- Mercier, Henri, Paris, France. Automatic throttle for high-compression motors. No. 1,312,040; Aug. 5; v. 265; p. 35.
- Meredith, Fred M., Toronto, Ontario, Canada. Setting-up device for sticker or molding machines. No. 1,316,494; Sept. 16; v. 266; p. 395.
- Meredith, James G., Lynchburg, Va. Side-dumping hand-car. No. 1,319,300; Oct. 21; v. 267; p. 399.
- Meredith, Oscar G., East Goshen township, Chester county, assignor of one-third to H. F. Taylor, East Goshen township, and one-third to N. Hunsberger, Philadelphia, Pa. Animal-trap. No. 1,291,591; Jan. 14; v. 258; p. 399.
- Meredith, Oscar G., East Goshen township, Chester county, assignor of one-half to H. F. Taylor, West Chester, Pa. Animal-trap. No. 1,316,378; Sept. 16; v. 266; p. 373.
- Meredith, Ross, Spring Valley, assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,321,659; Nov. 11; v. 268; p. 309.
- Merenko, Basil. (See Choma, John, assignor.)
- Mergenthaler, Eugene G., Baltimore, Md. Safety-razor. No. 1,308,801; July 8; v. 264; p. 173.
- Mergenthaler, Eugene G., deceased, Baltimore, Md.; Safe Deposit and Trust Company of Baltimore and H. C. Mergenthaler, executors. Safety-razor. No. 1,318,456; Oct. 14; v. 267; p. 213.
- Mergenthaler, Herman C., et al., executors. (See Mergenthaler, Eugene G.)
- Mergenthaler Linotype Company. (See Boddeker, Henry, assignor.)
- Mergenthaler Linotype Company. (See Coe, Walter S., assignor.)
- Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
- Mergenthaler Linotype Company. (See Mayer, Jacques, assignor.)
- Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
- Merida, Hobart M., Spiceland, Ind. Mail-bag catcher and deliverer. No. 1,292,502; Jan. 28; v. 258; p. 672.
- Meridian Machine Products Corporation. (See Olevin, Adolph, assignor.)
- Meriwether, Catherine C., Alexander, N. C. Card game. No. 1,323,713; Dec. 2; v. 269; p. 92.
- Merk, Lawrence A. (See Schmid and Merk.)
- Merkel, Charles E., Marion, Ohio. Clevis. No. 1,313,311; Aug. 19; v. 265; p. 326.
- Merkel, John, Robinson, N. D. Ventilator. No. 1,310,537; July 22; v. 264; p. 562.
- Merkel, Joseph F., Flushing, N. Y. Self-propelled vehicle. No. 1,290,276; Jan. 7; v. 258; p. 64.
- Merkel, Joseph F., Flushing, N. Y. Self-propelled vehicle. No. 1,290,277; Jan. 7; v. 258; p. 64.
- Merkel, Joseph F., Flushing, N. Y. Motor-wheel. No. 1,297,218; Mar. 11; v. 260; p. 350.
- Merklee, William H., Union Hill, and J. H. Geraghty, Bogota, N. J. Container label and guard. No. 1,298,992; Apr. 1; v. 261; p. 87.
- Merklt, Gustav A., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Rail-bonding. (Reissue.) No. 14,647; May 13; v. 262; p. 283.
- Merklt, Gustav A., Worcester, Mass., assignor to The American Steel & Wire Company of New Jersey. Rail-bonding. No. 1,308,637; July 1; v. 264; p. 115.
- Merle, Alfred J. (See Grunwald, Bertrand R., assignor.)
- Merling, Charles V., Centralia, Wash. Resilient vehicle-tire. No. 1,290,630; Jan. 7; v. 258; p. 149.
- Meroney, John A., Sr. (See Hill and Meroney.)
- Merrell, Oliver E., assignor to Merrell-Soule Company, Syracuse, N. Y. Obtaining solids from liquids. (Reissue.) No. 14,693; July 22; v. 264; p. 676.
- Merrell-Soule Company. (See Merrell, Oliver E., assignor.) (Reissue.)
- Merriam, Edmund S., Marietta, Ohio. Recovery of gasoline from natural gas, &c. No. 1,304,587; May 27; v. 262; p. 499.
- Merriam, Ezra B., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,306,551; June 10; v. 263; p. 279.
- Merriam, Harry C. (See Hudson and Merriam.)
- Merrick, Ernest, Elizabeth, N. J., assignor to Merrick Fireproof Construction Co. Mold or form for concrete structures. No. 1,301,959; Apr. 29; v. 261; p. 837.
- Merrick Fireproof Construction Co. (See Merrick, Ernest, assignor.)
- Merrick, Frank W., Boston, Mass. Machine for finishing and bending the edges of stay-strips and the like. No. 1,293,157; Feb. 4; v. 259; p. 42.
- Merrick, Frank W., Boston, Mass. Machine for edge-finishing strips of material. No. 1,323,371; Dec. 2; v. 269; p. 28.
- Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Lasting-machine. No. 1,301,726; Apr. 22; v. 261; p. 761.
- Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Lasting-machine. No. 1,323,714; Dec. 2; v. 269; p. 92.
- Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Lasting-machine. No. 1,324,403; Dec. 9; v. 269; p. 268.
- Merrill, Carl J., Portland, Me. Insulated-building construction. No. 1,300,443; Apr. 15; v. 261; p. 463.
- Merrill, Charles F., Jasper, Mo., and E. E. Hall, Bayard, Kans. Fly-trap for cattle. No. 1,312,130; Aug. 5; v. 265; p. 52.
- Merrill, Charles F., North Adams, assignor to Draper Corporation, Hopedale, Mass. Terry-loom. No. 1,322,715; Nov. 25; v. 268; p. 610.
- Merrill Company, The. (See Crowe, Thomas B., assignor.)
- Merrill, Edgar E., Denver, Colo., assignor to The Merrill Shock Absorber Co. Compressed-air shock-absorber. No. 1,319,783; Oct. 28; v. 267; p. 514.
- Merrill, Edward B., Toronto, Ontario, Canada. Bread-board. No. 1,297,712; Mar. 18; v. 260; p. 485.
- Merrill, Frank H., deceased; G. E. Merrill, administratrix, assignor to Veerac Company, Minneapolis, Minn. Fire-screen for explosive-engines. No. 1,317,931; Oct. 7; v. 267; p. 51.
- Merrill, Frederick B., Stillwater, Minn. Container. No. 1,294,930; Feb. 18; v. 259; p. 522.
- Merrill, Grace E., administratrix. (See Merrill, Frank H.)
- Merrill Metallurgical Company. (See Kuryla, Michael H., assignor.)
- Merrill Process Company, The. (See Macdonald, John W. F., assignor.)
- Merrill Process Company, The. (See Merrill, Willis C., assignor.)



- Merrill, Robert T., Milwaukee, Wis. Ventilator and chimney-cap. No. 1,326,523; Dec. 30; v. 269; p. 780.
- Merrill Shock Absorber Co., The. (See Merrill, Edgar E., assignor.)
- Merrill, Wilbur L., Schenectady, N. Y., assignor to General Electric Company. Welding apparatus. No. 1,310,127; July 15; v. 264; p. 456.
- Merrill, William B. (See Somes, Walter F., assignor.)
- Merrill, William D. and J. E. Wood, Portland, Oreg. Man-lift. No. 1,297,713; Mar. 18; v. 260; p. 485.
- Merrill, William E. (See Hamilton, Thomas S., assignor.)
- Merrill, Willis C., assignor, by mesne assignments, to The Merrill Process Company, Boston, Mass. Heating apparatus. No. 1,325,952; Dec. 23; v. 269; p. 635.
- Merrimac Chemical Company. (See Pratt and Brink, assignors.)
- Merriman, David F., Waterloo, Iowa. Clinker-removing device. No. 1,326,209; Dec. 30; v. 269; p. 720.
- Merritt, Benjamin F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph-printer. No. 1,295,998; Mar. 4; v. 260; p. 40.
- Merritt, Benjamin F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Speed-control governor. No. 1,306,072; June 10; v. 263; p. 188.
- Merritt, Frank R., Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Abrasive tool. No. 1,308,093; July 1; v. 264; p. 16.
- Merritt, Henry. (See Bailey, Frederick T., assignor.)
- Merritt, John C., Marengo, Iowa. Toy. No. 1,309,041; July 8; v. 264; p. 219.
- Merritt, Louis G., Lockport, N. Y. Hot plate or platen for presses. No. 1,297,219; Mar. 11; v. 260; p. 351.
- Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Galvano-plastic process and product. No. 1,321,793; Nov. 11; v. 268; p. 335.
- Merritt, Matthew M., South Middleton, Mass. Electrolytic method, apparatus, and product. No. 1,322,494; Nov. 18; v. 268; p. 517.
- Merritt, Thomas Z., assignor to United States Spot Ground Corporation, Omaha, Nebr. Floor or wall screed. (Reissue.) No. 14,652; May 20; v. 262; p. 451.
- Morrow, Joseph M., assignor to The Morrow Machine Company, Hartford, Conn. Sewing-machine. No. 1,319,234; Oct. 21; v. 267; p. 387.
- Morrow, Joseph M., assignor to The Morrow Machine Company, Hartford, Conn. Thread-controlling mechanism for sewing-machines. No. 1,319,886; Oct. 28; v. 267; p. 534.
- Morrow Machine Company, The. (See Avis, Samuel W., assignor.)
- Morrow Machine Company, The. (See Gould, Harry B., Jr., assignor.)
- Morrow Machine Company, The. (See Morrow, Joseph M., assignor.)
- Mersereau, Gail, New York, N. Y., assignor to Chemical Development Company. Apparatus for producing diolefins. No. 1,308,802; July 8; v. 264; p. 174.
- Mersereau, Gail. (See Eldred and Mersereau.)
- Mersereau, Gail, assignor to Chemical Development Company, New York, N. Y. Cellulose solvent. No. 1,308,803; July 8; v. 264; p. 174.
- Mersfelder, William L., Detroit, Mich. Stove. No. 1,325,953; Dec. 23; v. 269; p. 636.
- Mershon, Ralph D., New York, N. Y. Electrode for electrolytic apparatus. No. 1,326,134; Dec. 23; v. 269; p. 669.
- Mertel, George, Brooklyn, N. Y. Pinwheel novelty. No. 1,320,262; Oct. 28; v. 267; p. 604.
- Mertens, Louis E., Osier, Mich. Clothes-pin. No. 1,306,073; June 10; v. 263; p. 189.
- Mertens, Louis R., assignor to C. J. Miller, Philadelphia, Pa. Steam-trap. No. 1,322,324; Nov. 18; v. 268; p. 484.
- Mertian, Jacob, Des Moines, N. Mex. Pipe-puller. No. 1,320,403; Nov. 4; v. 268; p. 9.
- Mertz, Hermine E., Farmington, Cal. Prong-fastener for gown decorations. No. 1,294,931; Feb. 18; v. 259; p. 522.
- Merwin, George H., Milford, Conn. Advertising toy. No. 1,308,854; July 8; v. 264; p. 183.
- Merwin, George H., Milford, Conn. Rolling toy. No. 1,324,841; Dec. 16; v. 269; p. 412.
- Merwin, George M., Berwyn, Ill., assignor, by mesne assignments, to International Harvester Company. Fodder-disintegrator. No. 1,303,352; May 13; v. 262; p. 193.
- Merwin, James E., assignor to A. E. Perry, Portland, Oreg. Shim. No. 1,296,418; Mar. 4; v. 260; p. 135.
- Merwin, James E., assignor to A. E. Perry, Portland, Oreg. Wheel-rim lug. No. 1,296,419; Mar. 4; v. 260; p. 135.
- Merwin, James E., assignor of one-third to R. Kash, and one-third to Automatic Manufacturing Company, Portland, Oreg. Wedge. No. 1,319,656; Oct. 21; v. 267; p. 468.
- Merz, Charles H., et al. (See Michie and Weeks, assignors.)
- Merz, Jacob, Chicago, Ill. Hose-mender. No. 1,303,098; May 6; v. 262; p. 118.
- Merzenich, William T., assignor to G. M. Watters, Minneapolis, Minn. Primer for internal-combustion engines. No. 1,303,353; May 13; v. 262; p. 193.
- Meschenmoser, William F., New Dorp, N. Y. Outlet-box fitting. No. 1,314,346; Aug. 26; v. 265; p. 556.
- Mesick, Albert W., Brooklyn, N. Y. Tapping and drilling machine. No. 1,291,592; Jan. 14; v. 258; p. 399.
- Mesiroff, Joseph A., Milwaukee, Wis. Concrete dock. No. 1,318,097; Oct. 7; v. 267; p. 83.
- Mesna, Oscar J., Pelican Rapids, Minn. Valve. No. 1,295,999; Mar. 4; v. 260; p. 40.
- Mesner, William G., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane wire-fastening. No. 1,310,764; July 22; v. 264; p. 604.
- Messenger, John W., Burwell, Nebr. Hay-stacker. No. 1,322,040; Nov. 18; v. 268; p. 431.
- Messenger, Robert P., Copenhagen, Denmark. Pencil-sharpening instrument. No. 1,301,727; Apr. 22; v. 261; p. 762.
- Messer, George F., Aberdeen, Wash. Dirigible headlight for automobiles. No. 1,312,560; Aug. 12; v. 265; p. 163.
- Messer, Peter J., Olean, N. Y. Engine-cylinder. No. 1,302,692; May 6; v. 262; p. 40.
- Messersmith, Edgar C. (See Gomes, Heintz, and Messersmith.)
- Messersmith, Edgar C., assignor, to Cygnet Mfg. Co., Inc. Buffalo, N. Y. Cart. No. 1,319,235; Oct. 21; v. 267; p. 387.
- Messersmith, Edgar C., assignor to Cygnet Mfg. Co., Inc., Buffalo, N. Y. Tripod for mounting guns. No. 1,320,702; Nov. 4; v. 268; p. 64.
- Messersmith, Orvis A., Farnam, Nebr. Disk-holder. No. 1,306,969; June 17; v. 263; p. 389.
- Messick, Charles, Hackensack, N. J., assignor to Electrical Conveying Machinery Company. Method and machine for making treads. No. 1,299,987; Apr. 8; v. 261; p. 338.
- Messiter, Edwin H., Brooklyn, assignor to Electric Weighing Company, New York, N. Y. Integrating mechanism. No. 1,307,369; June 24; v. 263; p. 495.
- Messiter, William F., Brooklyn, N. Y. Heater. No. 1,293,503; Feb. 4; v. 259; p. 123.
- Messiter, William F., Brooklyn, N. Y. Cap-cover block. No. 1,313,717; Aug. 19; v. 265; p. 402.
- Messler, Arnold C. (See Carlson and Johnson, assignors.)
- Messler, Matie C. (See Herrick, Albert B., assignor.)
- Messler, Matie C. (See Stanton, Warren F., assignor.)
- Mestars, Edna. (See Mestars, Robert and E.)
- Mestars, Robert and E., Los Angeles, Calif. Strap-fastener for the running-boards of automobiles, &c. No. 1,323,896; Dec. 2; v. 269; p. 127.
- Mestek, Rudolph, Pierce, W. Va. Direction-indicator. No. 1,294,932; Feb. 18; v. 259; p. 523.
- Meston, Charles R., St. Louis, Mo. Valve for refrigerating systems. No. 1,302,948; May 6; v. 262; p. 89.
- Metal Arts & Crafts Co. (See Jones, Charles E., assignor.)
- Metal Auto Parts Company. (See Green, Teddy A., assignor.)
- Metal Package Corporation of New York. (See Blakeney, Albert N., assignor.)
- Metal Shingle & Siding Company of Alberta. (See Brackenbury, Thomas C., assignor.)
- Metal Specialties Manufacturing Company. (See Berg, John, assignor.)
- Metalite Company, The. (See Clapp, Albert L., assignor.)
- Metallurgic Improvement Corporation. (See Christensen, Niels C., assignor.)
- Metallurgical Company of America. (See Rody, Franz A., assignor.)
- Metals Disintegrating Company. (See Hall, Everett J., assignor.)
- Metals Extraction Corporation, The. (See Sulman and Picard, assignors.)
- Metals Plating Company, The. (See Conran, Frederick M., assignor.)
- Metals Plating Company, The. (See Watkins, William E., assignor.)
- Metals Recovery Company. (See Bacon, Raymond F., assignor.)
- Metals Recovery Company. (See Perkins, Clement L., assignor.)
- Metals Recovery Company. (See Schwarz, Alfred, assignor.)
- Metals Research Company. (See Bacon, Raymond F., assignor.)
- Metcalfe, Alpha H., Attleboro, Mass. Cigarette-case. No. 1,322,807; Nov. 25; v. 268; p. 627.
- Metcalfe, Charles, Streator, Ill. Vacuum vapor damper-regulator. No. 1,294,360; Feb. 11; v. 259; p. 353.
- Metcalfe, Frank G. (See Butler, John W., assignor.)
- Metcalfe, Cecil B. (See Quintile and Metcalfe.)
- Metcalfe, George R., et al. (See Cox, John W., assignor.)
- Metcalfe, George R., Oak Park, Ill. Apparatus for soldering. No. 1,320,632; Nov. 4; v. 268; p. 51.
- Metcalfe, John, Sr., Brownsville, Pa. Trolley-pole. No. 1,317,932; Oct. 7; v. 267; p. 51.
- Metcalfe, Henry, Cold Spring, N. Y. Pocket memo-case. No. 1,308,437; July 1; v. 264; p. 78.



## Alphabetical list of patentees—Continued.

- Methven, James R., Minneapolis, Minn. Weighing-scale. No. 1,290,278; Jan. 7; v. 258; p. 64.
- Methven, Thomas F., Dalmuir, Scotland. Compressed-air starting and reversing valve-gear for combustion-engines. No. 1,318,897; Oct. 14; v. 267; p. 297.
- Metropolitan Electric Manufacturing Company. (See Johnston, Andrew L., Jr., assignor.)
- Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
- Metropolis, George D., Birmingham, Ala. War-vehicle. No. 1,318,898; Oct. 14; v. 267; p. 298.
- Metten, John F., Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company. Marine steam-turbine. No. 1,300,287; Apr. 15; v. 261; p. 430.
- Metten, John F., Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company. Making turbine-nozzle structures. No. 1,307,786; June 24; v. 263; p. 571.
- Metten, John F., Philadelphia, Pa., assignor to The William Cramp & Sons Ship & Engine Building Company. Safety device for lubricating systems. No. 1,321,935; Nov. 18; v. 268; p. 412.
- Metz, Abraham L., and G. O. Bergeron, New Orleans, La. Carbon-remover. No. 1,307,562; June 24; v. 263; p. 530.
- Metz, David A., Philadelphia, Pa. Electroplating apparatus. No. 1,315,029; Sept. 2; v. 266; p. 102.
- Metz, Harry J., Davenport, Iowa, assignor of one-half to J. P. Bladel, Rock Island, Ill. Attachment for corn-planters. No. 1,311,985; Aug. 5; v. 265; p. 25.
- Metz, John P., Jersey City, N. J., assignor, by mesne assignments, to Pilgrim Clock Company, Inc., New York, N. Y. Alarm-clock. No. 1,323,781; Dec. 2; v. 269; p. 105.
- Metz, Samuel T., Brooklyn, N. Y., assignor to Victory Corset and Girdle Co., Inc. Fabric. No. 1,301,865; Apr. 29; v. 261; p. 819.
- Metz, Samuel T., Brooklyn, N. Y., assignor to Victory Corset and Girdle Co., Inc. Making fabrics. No. 1,302,195; Apr. 29; v. 261; p. 881.
- Metzger, Bernard, *et al.* (See Fawkes, Wilbert C., assignor.)
- Metzger, Charles T., assignor to The Pullman Couch Company, Chicago, Ill. Knockdown furniture. No. 1,297,714; Mar. 18; v. 260; p. 485.
- Metzger, Floyd J., New York, N. Y. Production of formates. No. 1,313,312; Aug. 19; v. 265; p. 326.
- Metzger, Floyd J., New York, N. Y. Production and extraction of cyanids. No. 1,313,313; Aug. 19; v. 265; p. 326.
- Metzger, Floyd J., New York, N. Y. Synthetic production of ammonia. No. 1,313,314; Aug. 19; v. 265; p. 327.
- Metzger, Floyd J., New York, N. Y. Synthetic production of ammonia. No. 1,313,315; Aug. 19; v. 265; p. 327.
- Metzger, Floyd J., New York, N. Y. Synthetic production of ammonia. No. 1,313,316; Aug. 19; v. 265; p. 327.
- Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Manufacturing alkali-metal cyanid and separating the same from alkali-metal hydroxid. No. 1,295,049; Feb. 18; v. 259; p. 548.
- Metzger, Floyd J., assignor to Air Reduction Company, Inc., New York, N. Y. Coating with metals. No. 1,299,988; Apr. 8; v. 261; p. 338.
- Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Apparatus for the manufacture of alkali cyanid. No. 1,309,903; July 15; v. 264; p. 416.
- Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Manufacture of cyanids. No. 1,322,195; Nov. 18; v. 268; p. 460.
- Metzger, Hamilton B., Lima, Ohio. Ironing-pad. No. 1,321,116; Nov. 11; v. 268; p. 206.
- Metzger, Irvin L., Stockton, Calif. Oil-cooling system for explosive-engines. No. 1,307,016; June 17; v. 263; p. 398.
- Metzger, John A., Castleton, N. Y. Exercising apparatus. No. 1,324,404; Dec. 9; v. 269; p. 268.
- Metzger, Joseph A., Buffalo, N. Y. Adjustable shade or curtain bracket. No. 1,311,453; July 29; v. 264; p. 765.
- Metzger, Jules P., Carlstadt, assignor to The Leslie Co., Lyndhurst, N. J. Pressure-regulator. No. 1,308,638; July 1; v. 264; p. 115.
- Metzger, Maurice, Montreal, Quebec, Canada. Film-joining apparatus. No. 1,324,686; Dec. 9; v. 269; p. 322.
- Metzger, Myer, Chicago, Ill. Holder for menu-cards and the like. No. 1,310,202; July 15; v. 264; p. 469.
- Metzger, William G., administrator. (See Hartz, Henry V.)
- Metzinger, Myron M., Blair, Nebr. Concrete-block wall structure. No. 1,294,509; Feb. 18; v. 259; p. 424.
- Metzinger, Myron M., Blair, Nebr. Multigap spark-plug. No. 1,298,368; Mar. 25; v. 260; p. 649.
- Metzko, Paul, San Diego, Calif. Fence. No. 1,319,887; Oct. 28; v. 267; p. 534.
- Meubauer, William J., Cleveland, Ohio. Game apparatus. No. 1,320,086; Oct. 28; v. 267; p. 571.
- Meunier, Frederick H., Denver, Colo. Governor for piano-planos. No. 1,321,117; Nov. 11; v. 268; p. 206.
- Mewborne, Robert G., and H. K. McConnell, assignors to The Kentucky Tobacco Product Company, Louisville, Ky. Purifying nicotin field-baths. No. 1,317,210; Sept. 30; v. 266; p. 613.
- Meyer, Albert, *et al.* (See Fawkes, Wilbert C., assignor.)
- Meyer, Albert C., San Diego, Calif. Hand-stamp rack. No. 1,298,993; Apr. 1; v. 261; p. 87.
- Meyer, Albert J. (See Mott, Meyer, Halteman, and Wheel.)
- Meyer, Albert P., assignor to Allen S. Davison Company, Pittsburgh, Pa. Making furnace-lining materials. No. 1,300,631; Apr. 15; v. 261; p. 503.
- Meyer, Anton, and J. A. Steinert, New York, N. Y. Spinal supporter. No. 1,316,915; Sept. 23; v. 266; p. 522.
- Meyer, Aubrey E., New York, N. Y. Textile yarn and making the same. No. 1,295,821; Feb. 25; v. 259; p. 750.
- Meyer, August, assignor, by mesne assignments, of one-half to himself and one-half to E. Ruemele, New York, N. Y. Operating mechanism for washing-machines. No. 1,321,066; Nov. 4; v. 268; p. 133.
- Meyer, August J., Chicago, Ill. Tire. No. 1,321,466; Nov. 11; v. 268; p. 273.
- Meyer, August J., assignor of one-half to D. A. Wright and one-half to W. E. Pratt, Chicago, Ill. Turret indexing and locking means. No. 1,317,884; Oct. 7; v. 267; p. 42.
- Meyer, August W., Seattle, Wash. Reed attachment for piano-player devices. No. 1,304,344; May 20; v. 262; p. 414.
- Meyer, Benjamin. (See Smith, Winfield D., assignor.)
- Meyer, Charles L., and R. O. MacMonagle, Omaha, Nebr. Mold for concrete columns. No. 1,313,005; Aug. 12; v. 265; p. 251.
- Meyer, Clifford L., Bellevue borough, Pa. Man's garter. No. 1,309,765; July 15; v. 264; p. 390.
- Meyer Corporation, The. (See Roecker, William B., assignor.)
- Meyer, Emil J., Cape Girardeau, Mo. Weather-strip. No. 1,294,690; Feb. 18; v. 259; p. 467.
- Meyer, Ernest P., Detroit, Mich. Pipe-hanger. No. 1,318,503; Oct. 14; v. 267; p. 222.
- Meyer, Fred G., Detroit, Mich. Spark-plug intensifier. No. 1,296,101; Mar. 4; v. 260; p. 65.
- Meyer, Fred G., and B. F. Wheeler, Detroit, Mich. Journal-bearing. No. 1,323,605; Dec. 2; v. 269; p. 71.
- Meyer, Frederick W., Jersey City, N. J., assignor of one-half to P. W. B. Garyn, New York, N. Y. Water-tank electric display-sign. No. 1,313,550; Aug. 19; v. 265; p. 371.
- Meyer, Friedrich W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Co. Rectifier system. No. 1,291,066; Jan. 14; v. 258; p. 278.
- Meyer, Friedrich W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,298,757; Apr. 1; v. 261; p. 33.
- Meyer, Friedrich W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,308,094; July 1; v. 264; p. 16.
- Meyer, George J., Milwaukee, Wis. Variable-speed drive. No. 1,297,220; Mar. 11; v. 260; p. 351.
- Meyer, George J., Milwaukee, Wis. Temperature-controller for bottle-washing machines. No. 1,297,299; Mar. 11; v. 260; p. 369.
- Meyer, George J., assignor to Geo. J. Meyer Manufacturing Co., Milwaukee, Wis. Bottle-washing machine. No. 1,310,128; July 15; v. 264; p. 456.
- Meyer, Gustav F., Troy, N. Y. Non-slipping and non-skidding device. No. 1,294,510; Feb. 18; v. 259; p. 425.
- Meyer, Henry, Hays, Kans. Garment hanger and stretcher. No. 1,319,784; Oct. 28; v. 267; p. 514.
- Meyer, Henry C. (See Proctor, Barton A., assignor.)
- Meyer, Herman G., Green Lake, Wis. Calif-weaner. No. 1,323,083; Nov. 25; v. 268; p. 679.
- Meyer, Irma D. (See Meyer, Madeleine E. and I. D.)
- Meyer, Louis, San Francisco, Calif. Flushing apparatus. No. 1,305,145; May 27; v. 262; p. 603.
- Meyer, Louis W., Chicago, Ill. Tire-pump. No. 1,326,764; Dec. 30; v. 269; p. 825.
- Meyer, Madeleine E. and I. D., New York, N. Y. Machine for drying and polishing glasses. No. 1,317,523; Sept. 30; v. 266; p. 673.
- Meyer, Max, and P. W. Gessner, Los Angeles, Calif. Luggage-carrier for automobiles. No. 1,304,502; May 20; v. 262; p. 445.
- Meyer, Otto F., and J. I. Payne, Taft, Calif. Tire-alarm. No. 1,298,538; Mar. 25; v. 260; p. 688.
- Meyer, Peter F., Brooklyn, N. Y. Pleasure-railway. No. 1,311,703; July 29; v. 264; p. 811.
- Meyer, Ralph J., Grand Junction, Colo., assignor, by mesne assignments, to Bulldog Pump Co. Rotary pump. No. 1,324,260; Dec. 9; v. 269; p. 240.
- Meyer, Trygve E., Lombard, assignor to Automatic Electric Company, Chicago, Ill. Rotary connector. No. 1,295,185; Feb. 25; v. 259; p. 603.
- Meyer, William. (See Sonderegger, Leo, assignor.)
- Meyer, William, Chicago, Ill. Spark-gap. No. 1,316,916; Sept. 23; v. 266; p. 522.
- Meyer, William A. (See Grover and Meyer.)
- Meyer, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. No. 1,298,758; Apr. 1; v. 261; p. 33.



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- Meyer, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism for shoe-sewing machines. No. 1,298,759; Apr. 1; v. 261; p. 33.
- Meyer, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Presser-foot mechanism for shoe-sewing machines. No. 1,299,405; Apr. 1; v. 261; p. 179.
- Meyer, William K., New York, N. Y. Necktie. No. 1,299,498; Apr. 8; v. 261; p. 229.
- Meyerhoff, Etta S., Brooklyn, N. Y. Vanity-bag. No. 1,325,485; Dec. 16; v. 269; p. 531.
- Meyering, Bernard H., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 1,321,067; Nov. 4; v. 268; p. 134.
- Meyering, Dirk J. C., Brooklyn, N. Y. Oiling system for steam-lines. No. 1,294,363; Feb. 11; v. 259; p. 354.
- Meyers, Frank W., C. L. Campbell, and F. H. McSweeney, Houston, Tex. Lint separator and cleaner. No. 1,312,798; Aug. 12; v. 265; p. 210.
- Meyers, Frederick, Beardsley Park, Conn. Wind-shield holder. No. 1,305,919; June 3; v. 263; p. 130.
- Meyers, George W., assignor to Building Equipments Manufacturing Company, Chicago, Ill. Cleaning apparatus. No. 1,297,384; Mar. 18; v. 260; p. 416.
- Meyers, George W., assignor to Building Equipments Manufacturing Company, Chicago, Ill. Machine for operating on surfaces. No. 1,320,778; Nov. 4; v. 268; p. 78.
- Meyers, Herbert H., Pittsburgh, Pa., assignor to Armour Fertilizer Works, Chicago, Ill. Manufacture of chlorin. No. 1,311,175; July 29; v. 264; p. 713.
- Meyers, Herbert H., Pittsburgh, Pa., assignor to Armour Fertilizer Works, Chicago, Ill. Contact process for making sulfuric acid. No. 1,314,280; Aug. 26; v. 265; p. 544.
- Meyers, Herman, New York, N. Y. Film-winder for cameras. No. 1,325,163; Dec. 16; v. 269; p. 472.
- Meyers, John J., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Band sawing-machine. No. 1,302,949; May 6; v. 262; p. 89.
- Meyers, John M., West Chester, Pa. Valve. No. 1,324,842; Dec. 16; v. 269; p. 413.
- Meyers, Louis, Brooklyn, N. Y. Garment-hanger support. No. 1,300,444; Apr. 15; v. 261; p. 463.
- Meyers, Luther C., Bridgeton, N. J. Press-frame. No. 1,311,412; July 29; v. 264; p. 757.
- Meyers, Orlando H., Dudley, Ill. Tire-inflating and pressure-indicating device. No. 1,322,196; Nov. 18; v. 268; p. 460.
- Meyers, Otto, Watts, Calif. Fuel and making the same. No. 1,305,392; June 3; v. 263; p. 31.
- Meyers, William A., San Francisco, Calif., assignor, by mesne assignments, to International Earth-Boring Machine Company. Earth-boring machine. No. 1,315,565; Sept. 9; v. 266; p. 209.
- Meyerson, Max, New York, N. Y. Folding carrier. No. 1,323,715; Dec. 2; v. 269; p. 92.
- Meyner, Walter, New York, N. Y. Self-illuminating notebook. No. 1,313,551; Aug. 19; v. 265; p. 371.
- Meyrelles, Flaminio F., West Somerville, Mass. Stopper. No. 1,293,854; Feb. 11; v. 259; p. 236.
- Meyrowitz, Emil B., New York, N. Y., assignor to E. B. Meyrowitz, Inc. Spectacles. No. 1,310,203; July 15; v. 264; p. 470.
- Mezera, Charles J., and J. J. Dubrava, Cleveland, Ohio. Cover for cups of massage-vibrators. No. 1,322,924; Nov. 25; v. 268; p. 649.
- Miano, Nicholas J. (See Kaiser and Miano.)
- Miano, Nicholas J., Jamaica, assignor to Universal Fixture Corporation, New York, N. Y. Revolving rack. No. 1,294,511; Feb. 18; v. 259; p. 425.
- Miano, Nicholas J., Jamaica, assignor to Universal Fixture Corporation, New York, N. Y. Display-fixture. No. 1,314,887; Sept. 2; v. 266; p. 76.
- Miano, Nicholas J., Jamaica, assignor to Universal Fixture Corporation, New York, N. Y. Display-fixture. No. 1,322,596; Nov. 25; v. 268; p. 588.
- Miano, Pompilio, Bronx, N. Y. Combination key-controlled sliding-bolt lock. No. 1,295,557; Feb. 25; v. 259; p. 690.
- Miceli, Antonino, Brooklyn, N. Y. Dump-car. No. 1,292,627; Jan. 28; v. 258; p. 704.
- Michael, Charles H., Buffalo, N. Y. Cup or lining for golf-holes. No. 1,291,067; Jan. 14; v. 258; p. 278.
- Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Listed cultivator. No. 1,298,760; Apr. 1; v. 261; p. 33.
- Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Gang-plow. No. 1,302,403; Apr. 29; v. 261; p. 921.
- Michael, Harry A., Beaver Falls, Pa. Pipe-wrench. No. 1,311,610; July 29; v. 264; p. 794.
- Michael, James G., Windber, Pa. Float-operated switch. No. 1,296,000; Mar. 4; v. 260; p. 41.
- Michael, Joseph W., Woodburn, Iowa. Amusement riding device. No. 1,301,476; Apr. 22; v. 261; p. 713.
- Michael, Robert F., Mainville, Pa. Nut-lock. No. 1,298,994; Apr. 1; v. 261; p. 87.
- Michaelsen, Charles O., Minneapolis, Minn., assignor, by mesne assignments, to Michaelsen Machinery Company. Rock crusher and pulverizer. No. 1,297,385; Mar. 18; v. 260; p. 416.
- Michaelsen Machinery Company. (See Michaelsen, Charles O., assignor.)
- Michaelson, Andrew E., Portland, Oreg. Photographic motion-recording device. No. 1,303,099; May 6; v. 262; p. 118.
- Michajlov, Mita, New York, N. Y. Artificial limb. No. 1,320,022; Oct. 28; v. 267; p. 559.
- Michalick, Fred, Portland, Oreg. Operating means for washing-machines. No. 1,311,003; July 22; v. 264; p. 648.
- Michalovitz, Jacob, Los Angeles, Calif. Glazier's T-square gage. No. 1,298,995; Apr. 1; v. 261; p. 88.
- Michaud, Elzear, Chicago, Ill. Whistle. No. 1,324,609; Dec. 9; v. 269; p. 308.
- Michaud, Joseph O., Fort Kent, Me. Internal expanding brake. No. 1,294,512; Feb. 18; v. 259; p. 425.
- Michaud, Joseph O., Fort Kent, Me. Internal-expanding brake. No. 1,313,317; Aug. 19; v. 265; p. 327.
- Michaud, Onesime E., St. Louis, Mo., assignor of one-half to F. A. Muller, McGeehe, Ark. Valve for explosion-engines. No. 1,301,477; Apr. 22; v. 261; p. 714.
- Michel, Charles O., Hoboken, N. J. Invalid-crutch. No. 1,292,503; Jan. 28; v. 258; p. 673.
- Michel, George, Erie, Pa. Window-shade fixture. No. 1,292,843; Jan. 28; v. 258; p. 754.
- Michel, Henry, Sublette, Ill. Automatic flame-regulator. No. 1,297,887; Mar. 18; v. 260; p. 522.
- Michel, John, Philadelphia, Pa. Anti-skid device. No. 1,320,886; Nov. 4; v. 268; p. 99.
- Michel, William G., Niagara Falls, N. Y. Electrolytic cell. No. 1,309,148; July 8; v. 264; p. 239.
- Michele, John, assignor of one-third to H. W. Brandt and one-third to J. Kummer, Chicago, Ill. Molding-machine. No. 1,291,996; Jan. 21; v. 258; p. 530.
- Michelet, W. J., et al. (See Dickerson, Raymond L., assignor.)
- Micheletti, Attilio. (See Valente and Micheletti.)
- Michelin, Arthur, Montreal, Quebec, Canada. Support. No. 1,326,363; Dec. 30; v. 269; p. 749.
- Michell, Anthony G. M., Melbourne, Victoria, Australia. Bearing element. No. 1,315,735; Sept. 9; v. 266; p. 239.
- Michels, Charles, Sr., Anamosa, Iowa. Chimney-cleaner and safety device. No. 1,320,887; Nov. 4; v. 268; p. 100.
- Michels, Frank W. (See Michels, Joseph J. and F. W.)
- Michels, Joseph J., Syracuse, and F. W. Michels, East Syracuse, N. Y. Car-replacer. No. 1,315,566; Sept. 9; v. 266; p. 209.
- Michelson, Albert A., Chicago, Ill. Optical telemeter. No. 1,305,393; June 3; v. 263; p. 31.
- Michelson, Albert A., Chicago, Ill. Optical range-finder. No. 1,313,495; Aug. 19; v. 265; p. 350.
- Michelson, Lelim J. (See Bennett, Harry J., assignor.)
- Michie, Arthur C., Newcastle-upon-Tyne, and E. G. Weeks, Northumberland, assignors to C. H. Mery and W. McLellan, Westminster, London, England. Use of solid fuel for power production. No. 1,301,960; Apr. 29; v. 261; p. 838.
- Michigan Lubricator Company. (See Le Roy and Whitbeck, assignors.)
- Michigan Steel Tube Products Co. (See Kritz, Frank, assignor.)
- Michigan Stove Company, The. (See Maul, Henry C., assignor.)
- Michki, Jozsef, Terre Haute, Ind. Combination-tool for shoemakers. No. 1,297,386; Mar. 18; v. 260; p. 416.
- Michki, Joseph, Terre Haute, Ind. Cobbler's kit. No. 1,291,997; Jan. 21; v. 258; p. 530.
- Michon, Joseph H. M., Washington, D. C. Expandible wheel-rim. No. 1,314,414; Aug. 26; v. 265; p. 570.
- Michon, Joseph H. M., Washington, D. C. Collapsible wheel-rim. No. 1,314,415; Aug. 26; v. 265; p. 570.
- Michon, Joseph H. M., Washington, D. C. Collapsible wheel-rim. No. 1,314,416; Aug. 26; v. 265; p. 570.
- Michon, Joseph H. M., Baltimore, Md., assignor of one-eighth to J. B. Latimer, Washington, D. C. Expandible wheel-rim. (Reissue) No. 14,712; Aug. 19; v. 265; p. 432.
- Michot, Georges, Dromara, Ireland, assignor to Fibre Corporation Limited, London, England. Scutching of flax and other fibrous materials. No. 1,304,791; May 27; v. 262; p. 538.
- Mick, Francis E. (See Dick, Samuel M., assignor.)
- Mid-West Manufacturing Company, The. (See Hopkins, Arthur C., assignor.)
- Midboe, Gabriel. (See Pittman and Midboe.)
- Midboe, Gabriel, Brooklyn, and C. C. Pittman, assignors to R. P. Lydon, New York, N. Y. Ignition system for internal-combustion engines. No. 1,315,736; Sept. 9; v. 266; p. 239.
- Middelthun, Lelf. (See Sagberg and Middelthun.)
- Middlebrook, Charles E., Rinehamton, N. Y. Telephone-directory. No. 1,303,100; May 6; v. 262; p. 118.
- Middlebrooks, Samuel A., Macon, Ga. Carbureter. No. 1,294,513; Feb. 18; v. 259; p. 425.
- Middlesex Machine Company. (See Brassill, Frank A., assignor.)



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- Middleton, Burton W., assignor to The Williams Pivot Sash Company, Cleveland, Ohio. Window-sash lock and pull. No. 1,317,031; Sept. 23; v. 266; p. 543.
- Middleton, Claude E., Eagle Grove, Iowa. Traction-wheel. No. 1,312,740; Aug. 12; v. 265; p. 198.
- Middleton, Lee P., Roseville, Cal. Sealing bottles and the like. No. 1,294,820; Feb. 18; v. 259; p. 496.
- Middleton, Thomas P. (See Kent and Middleton.)
- Middleton, William H., Niagara Falls, Ontario, Canada, assignor to American Cyanamid Company, New York, N. Y. Manufacturing cyanamid. No. 1,315,678; Sept. 9; v. 266; p. 228.
- Middletown Machine Company, The. (See Haas, Walter G., assignor.)
- Midgley, Albert H., assignor of one-half to C. A. Vandervell, Acton Vale, England. Starter for internal-combustion engines. No. 1,301,478; Apr. 22; v. 261; p. 714.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell, Acton Vale, England. Time-fuse for shells. No. 1,301,479; Apr. 22; v. 261; p. 714.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell, Acton Vale, England. Time-fuse for shells. No. 1,301,480; Apr. 22; v. 261; p. 714.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell, Acton Vale, England. Percussion-fuse for explosive projectiles. No. 1,301,481; Apr. 22; v. 261; p. 714.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell, Acton Vale, England. Percussion-fuse for explosive projectiles. No. 1,301,482; Apr. 22; v. 261; p. 715.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell, Acton Vale, England. Variable-speed dynamo-electric machine. No. 1,307,099; June 17; v. 263; p. 413.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell, Acton Vale, England. Percussion-fuse for explosive projectiles. No. 1,309,098; July 8; v. 264; p. 230.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell & Company Limited, Acton Vale, Middlesex, England. Electric starter for internal-combustion engines. No. 1,317,806; Oct. 7; v. 267; p. 27.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell, Acton Vale, England. Percussion-fuse for explosive projectiles. No. 1,318,098; Oct. 7; v. 267; p. 83.
- Midgley, Albert H., assignor of one-half to C. A. Vandervell & Company Limited, Acton Vale, England. Ignition system for internal-combustion engines. No. 1,324,430; Dec. 9; v. 269; p. 273.
- Midgley, Albert H., Acton Vale, assignor of one-half to C. A. Vandervell & Company Limited, Warple Way, Acton Vale, England. Combined starter and lighting-dynamo. No. 1,325,677; Dec. 23; v. 269; p. 585.
- Midgley, Arthur M., Sutton-in-Craven, near Keighley, and S. Sunderland, Keighley, England. Cutter for helical wheel-teeth. No. 1,307,633; June 24; v. 263; p. 543.
- Midgley, Herbert, Worcester, Mass. Foundation for card-clothing. No. 1,293,504; Feb. 4; v. 259; p. 123.
- Midgley, Thomas, Worthington, Ohio, assignor to Morgan & Wright, Detroit, Mich. Machine for cutting and rolling fabric. No. 1,321,228; Nov. 11; v. 268; p. 227.
- Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Combined mold and fluid bag. No. 1,321,229; Nov. 11; v. 268; p. 228.
- Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Coating fabric. No. 1,323,606; Dec. 2; v. 269; p. 72.
- Midgley, Thomas, Jr., Dayton, Ohio, assignor to The Dayton Metal Products Company. Fuel for internal-combustion engines. No. 1,296,832; Mar. 11; v. 260; p. 264.
- Midwest Engine Company. (See Sargent, Charles E., assignor.)
- Mieczeski, Tony. (See Barniak, Feliks, assignor.)
- Miegel, Charles W., Jersey City, N. J. Tire-casing. No. 1,293,158; Feb. 4; v. 259; p. 42.
- Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Dudley, Edward F., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Henderson, Carl, assignor.)
- Miehle Printing Press & Manufacturing Company. (See Henderson and Stevens, assignors.)
- Miehle Printing Press & Manufacturing Company. (See Rich, Frank E., assignor.)
- Miehle Printing Press & Manufacturing Company, The. (See Stevens, Burt D., assignor.)
- Miehle, Robert, Chicago, Ill. Inking mechanism for printing-machines. No. 1,291,068; Jan. 14; v. 258; p. 278.
- Miehle, Robert, Chicago, Ill. Printing-press. No. 1,291,069; Jan. 14; v. 258; p. 279.
- Miehle, Robert, Chicago, Ill. Sheet-delivery mechanism for printing-presses and other machines. No. 1,291,998; Jan. 21; v. 258; p. 530.
- Miehle, Robert, Chicago, Ill. Sheet-delivery mechanism for printing-presses and other machines. No. 1,291,999; Jan. 21; v. 258; p. 530.
- Miehle, Robert, Chicago, Ill. Sheet-delivery mechanism for printing-presses and other machines. No. 1,292,000; Jan. 21; v. 258; p. 531.
- Miehle, Robert, Chicago, Ill. Sheet-delivery mechanism for printing-presses and other machines. No. 1,292,001; Jan. 21; v. 258; p. 531.
- Miehle, Robert, Chicago, Ill. Sheet-delivery mechanism for printing-presses and other machines. No. 1,292,002; Jan. 21; v. 258; p. 531.
- Miehle, Robert, Chicago, Ill. Mechanical movement. No. 1,293,505; Feb. 4; v. 259; p. 124.
- Miehle, Robert, Chicago, Ill. Combination two-color and perfecter printing-press. No. 1,293,855; Feb. 11; v. 259; p. 236.
- Miehle, Robert, Chicago, Ill. Printing-press tripping mechanism. No. 1,293,856; Feb. 11; v. 259; p. 236.
- Miehle, Robert, Chicago, Ill. Printing-press. No. 1,295,558; Feb. 25; v. 259; p. 690.
- Miehle, Robert, Chicago, Ill. Inking mechanism for printing-presses. No. 1,295,559; Feb. 25; v. 259; p. 690.
- Miehle, Robert, Chicago, Ill. Tripping mechanism for printing-presses. No. 1,300,288; Apr. 15; v. 261; p. 430.
- Miehle, Robert, Chicago, Ill. Tripping mechanism for rotary printing-presses. No. 1,300,289; Apr. 15; v. 261; p. 431.
- Miehle, Robert, Chicago, Ill. Mechanism for adjusting lifts of paper upon feed-boards. No. 1,300,445; Apr. 15; v. 261; p. 464.
- Miehle, Robert, Chicago, Ill. Trip-control mechanism for printing-presses. No. 1,302,693; May 6; v. 262; p. 40.
- Miehle, Robert, Chicago, Ill. Tripping mechanism for printing-presses. No. 1,315,382; Sept. 9; v. 266; p. 176.
- Miesch Manufacturing Company. (See Priquet, Andrew, assignor.)
- Miglietta, Riccardo, Laurium, Mich. Ice-cream-cone apparatus. No. 1,314,602; Sept. 2; v. 266; p. 24.
- Migliore, Louis S., Philadelphia, Pa. Machine-guard. No. 1,302,196; Apr. 29; v. 261; p. 881.
- Mihalvi, Joseph, assignor to Crown Optical Company, Rochester, N. Y. Binocular. No. 1,290,279; Jan. 7; v. 258; p. 64.
- Mihalvi, Joseph, assignor to Crown Optical Company, Rochester, N. Y. Telemeter. No. 1,307,205; June 17; v. 263; p. 431.
- Mikaelson, Erik W., Easton, Pa., assignor to Treadwell Engineering Company, Caster-table. No. 1,322,808; Nov. 25; v. 268; p. 627.
- Mikalsen, Severine A., Hazelton, N. D. Culinary vessel. No. 1,321,768; Nov. 11; v. 268; p. 330.
- Mikkelsen, Edward, Chicago, Ill. Door-catch. No. 1,297,221; Mar. 11; v. 260; p. 351.
- Mikkelsen, Peder, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door-closer. No. 1,299,373; Apr. 1; v. 261; p. 172.
- Mikkelsen, Peder, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door-closer. No. 1,315,145; Sept. 2; v. 266; p. 122.
- Mikela, Alexander, Detroit, Mich. Permutation-lock. No. 1,290,631; Jan. 7; v. 258; p. 149.
- Mikolyn, Charles, Charlevoix, Pa. Spring-wheel. No. 1,294,933; Feb. 18; v. 259; p. 523.
- Mikula, James G., Birchwood, Wis. Cue-tip. No. 1,314,347; Aug. 26; v. 265; p. 556.
- Mikulucky, Vachav, Verdigre, Nebr. Wagon-tongue. No. 1,310,244; July 15; v. 264; p. 477.
- Mikulic, Milos N., and A. W. Krause, Kansas City, Mo. Combined engine-cooler and vehicle-heater. No. 1,316,495; Sept. 16; v. 266; p. 395.
- Milano, Silvestro, New York, N. Y. Snap-fastener. No. 1,296,001; Mar. 4; v. 260; p. 41.
- Milanoff, Herman, Chicago, Ill. Straw-finishing composition. No. 1,305,146; May 27; v. 262; p. 604.
- Mild, Edward G. (See Mild, William E. and E. G.)
- Mild, William E. and E. G., Dayton, Ohio. Refrigerating apparatus. No. 1,324,610; Dec. 9; v. 269; p. 308.
- Milde, George S., assignor of one-half to Textilite Engineering Company Limited, London, England. Machine for forming twine or cord from ribbons of paper. No. 1,298,369; Mar. 25; v. 260; p. 649.
- Miles, Casper W., Anderson township, Hamilton county, Ohio. Refrigerating apparatus. No. 1,318,221; Oct. 7; v. 267; p. 108.
- Miles, Casper W., Anderson township, Hamilton county, Ohio. Artificial-refrigeration method and apparatus. No. 1,321,230; Nov. 11; v. 268; p. 228.
- Miles, Don D. (See Connor and Miles.)
- Miles, Edward J., Newton, Iowa. Vise. No. 1,311,986; Aug. 5; v. 265; p. 25.
- Miles, Harvey J., Beckenham, England. Indicator. No. 1,297,888; Mar. 18; v. 260; p. 522.
- Miles, Joseph. (See Taylor, Miles, and Burden.)
- Miles, Myrtle C., et al. (See Connor and Miles, assignors.)
- Miles, Thomas V. (See Blyth and Miles.)
- Miles, Vester, Pageland, S. C. Water-elevating device. No. 1,313,718; Aug. 19; v. 265; p. 403.
- Milewski, Joseph, assignor of one-half to A. Sieminsky, Elyria, Ohio. Armor-plate mounting. No. 1,303,355; May 13; v. 262; p. 193.



- Millan, Frederick, Chicago, Ill. Vehicle-fender. No. 1,298,996; Apr. 1; v. 261; p. 88.
- Millnowski, Arthur S., Brockport, N. Y. Calculating-machine. No. 1,310,204; July 15; v. 264; p. 470.
- Miller, Herbert P., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Supporting means for thermometers. No. 1,322,925; Nov. 25; v. 268; p. 649.
- Milkes, Leah G., assignor to Venus Manufacturing Company, Minneapolis, Minn. Outdoor garment for children. No. 1,292,351; Jan. 21; v. 258; p. 616.
- Milkes, Leah G., assignor to Venus Manufacturing Company, Minneapolis, Minn. Hood for children's garments. No. 1,309,042; July 8; v. 264; p. 219.
- Milkes, Leah G., assignor to Venus Manufacturing Company, Minneapolis, Minn. Reversible cuff. No. 1,309,943; July 8; v. 264; p. 219.
- Milkewitz, Hirsh. (See Gelarie and Milkewitz.)
- Milkewitz, Hirsh, L. Gelarie, and S. Gelarie, New York, N. Y. Cementing-machine. No. 1,318,683; Oct. 14; v. 267; p. 256.
- Milks, Robert K., and B. Moses, Ottawa, Ontario, Canada. Jacket for oil-cans and like containers. No. 1,302,694; May 6; v. 262; p. 40.
- Millar, John, Cincinnati, Ohio. Belt-hinge fastener and pin. No. 1,300,632; Apr. 15; v. 261; p. 503.
- Millard, Hannah G., assignor to The Butterick Publishing Company, New York, N. Y. Dressmaker's pattern outfit. No. 1,313,496; Aug. 19; v. 265; p. 360.
- Millard, Thomas Z., B. H. Osterhoudt, and C. R. Cheney, Bloomfield, Iowa. Gearless transmission and differential mechanism. No. 1,307,917; June 24; v. 263; p. 595.
- Millard, William, New York, N. Y., assignor to Millard's Gum Vending Corporation. Coin-controlled vending-machine. No. 1,321,385; Nov. 11; v. 268; p. 258.
- Millard, William, assignor to Carbon Destroyer Corporation, New York, N. Y. Apparatus for moistening air. No. 1,322,597; Nov. 25; v. 268; p. 588.
- Millard's Gum Vending Corporation. (See Millard, William, assignor.)
- Millea, Thomas D., Springfield, Mass. Valve-cap for automobile-tires. No. 1,306,495; June 10; v. 263; p. 269.
- Miller, Abram R., Denison, Iowa. Harvester. No. 1,293,857; Feb. 11; v. 259; p. 237.
- Miller, Albert, Buffalo, N. Y. Open-hearth furnace. No. 1,309,149; July 8; v. 264; p. 239.
- Miller, Albert E., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Purifying oil. No. 1,311,987; Aug. 5; v. 265; p. 25.
- Miller, Albert N., and D. W. Frackelton, assignors to The Reliance Gauge Column Company, Cleveland, Ohio. Water-column for boilers. No. 1,322,598; Nov. 25; v. 268; p. 588.
- Miller, Alvin C., Kansas City, Mo. Anti-bolt-loosening device. No. 1,291,070; Jan. 14; v. 258; p. 279.
- Miller, Amasa G., Bristol, Ind. Fire-escape. No. 1,303,706; May 13; v. 262; p. 257.
- Miller, Andrew B., Baldwin, Wis. Dry-cleaning and washing machine. No. 1,313,497; Aug. 19; v. 265; p. 361.
- Miller, Andrew R., Northwood, N. D. End-gate. No. 1,305,920; June 3; v. 263; p. 130.
- Miller, Arthur E., and C. E. Anable, Sacramento, Calif. One-way screw or bolt. No. 1,312,409; Aug. 5; v. 265; p. 104.
- Miller, Arthur E., and C. E. Anable, Sacramento, Calif. Safety-crank for automobiles. No. 1,312,410; Aug. 5; v. 265; p. 104.
- Miller, Arthur H. (See Miller, Fred J. and A. H.)
- Miller, Augustus, East Orange, N. J. Flag-controlling apparatus. No. 1,298,539; Mar. 25; v. 260; p. 688.
- Miller, Ben A., Los Angeles, Calif. Ear and neck protector. No. 1,326,875; Dec. 30; v. 269; p. 846.
- Miller, Benjamin G., and F. H., Crete, Nebr. Music-holder. No. 1,299,374; Apr. 1; v. 261; p. 172.
- Miller, Carl A., Los Angeles, Calif. Vehicle-spring. No. 1,298,243; Mar. 25; v. 260; p. 624.
- Miller, Charles E., Anderson, Ind. Rubber boot and shoe repair vulcanizer. No. 1,293,159; Feb. 4; v. 259; p. 43.
- Miller, Charles E., assignor to Universal Arch Company, Chicago, Ill. Arch-brick. No. 1,320,082; Oct. 28; v. 267; p. 570.
- Miller, Charles H., Libertyville, Iowa. Transmission-shifting device. No. 1,326,281; Dec. 30; v. 269; p. 734.
- Miller, Charles J. (See Mertens, Louis R., assignor.)
- Miller, Charles L., Cedar Rapids, Iowa. Driving-axle for tractors. No. 1,322,325; Nov. 18; v. 268; p. 484.
- Miller, Charles L., and L. J. Toffelmier, assignors to Junior Monarch Hay Press Co., San Leandro, Calif. Hay-press. No. 1,325,306; Dec. 16; v. 269; p. 499.
- Miller, Charles R., Collinsville, Tex. Grease-dispensing pump. No. 1,305,827; June 3; v. 263; p. 113.
- Miller, Charles T., Macon, Ga. Flush-tank valve. No. 1,319,785; Oct. 28; v. 267; p. 515.
- Miller, Constantine G., assignor to Meaker Galvanizing Co., Chicago, Ill. Electrolytic galvanizing-machine. No. 1,321,936; Nov. 18; v. 268; p. 412.
- Miller, Daniel B., Clydebank, Scotland. Railway and like mechanical signaling device. No. 1,303,707; May 13; v. 262; p. 257.
- Miller, Daniel D., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,292,003; Jan. 21; v. 258; p. 532.
- Miller, Daniel J., Waynesboro, Pa., assignor to Landis Machine Company. Die-head. No. 1,296,546; Mar. 4; v. 260; p. 163.
- Miller, David M., Brooklyn, N. Y. Game apparatus. No. 1,307,871; June 24; v. 263; p. 586.
- Miller, Donald J. G., Bootle, and R. A. Lloyd, Liverpool, England. Grinding or crushing machine. No. 1,304,345; May 20; v. 262; p. 414.
- Miller, Dorothy, Kansas City, Mo. Musical-game apparatus. No. 1,325,103; Dec. 16; v. 269; p. 461.
- Miller, Dorothy, Kansas City, Mo. Musical-game apparatus. No. 1,325,104; Dec. 16; v. 269; p. 461.
- Miller, Dorr, Chicago, Ill. Steering-gear. No. 1,326,282; Dec. 30; v. 269; p. 734.
- Miller, Dorr, Chicago, Ill., assignor to The Miller Transmission Company, New York, N. Y. Milling-machine fixture. No. 1,316,317; Sept. 16; v. 266; p. 362.
- Miller, Du Brul and Peters Manufacturing Co., The. (See Du Brul, Napoleon, assignor.)
- Miller, Earl L., Overbrook, Kans. Timer-brush. No. 1,296,420; Mar. 4; v. 260; p. 136.
- Miller, Earl M., Elizabethtown, Pa. Electric sign. No. 1,301,586; Apr. 22; v. 261; p. 733.
- Miller, Edgar L., Gunnison, Colo. Punch. No. 1,306,920; June 17; v. 263; p. 381.
- Miller, Edgar N. (See Matthews, Burtchaell Z., assignor.)
- Miller, Edward J. (See Pfouts and Miller.)
- Miller, Edwin B., Stockton, Cal. Ditch-digger. No. 1,296,994; Mar. 11; v. 260; p. 302.
- Miller, Edwin L., Kansas City, Mo. Gas-generating oil-burner. No. 1,307,206; June 17; v. 263; p. 432.
- Miller, Firm. (See Bryant and Miller.)
- Miller, Florence B., South Bend, Ind. Suspender-waist. No. 1,299,204; Apr. 1; v. 261; p. 134.
- Miller, Florence H. (See Miller, Benjamin G. and F. H.)
- Miller, Frank, New York, N. Y. Core-drill. No. 1,297,889; Mar. 18; v. 260; p. 523.
- Miller, Frank A., Vincennes, Ind. Motor-lock. No. 1,316,587; Sept. 23; v. 266; p. 461.
- Miller, Frank C., Trinidad, Colo. Spark-plug cleaner. No. 1,292,004; Jan. 21; v. 258; p. 532.
- Miller, Frank E. (See Davis, Charles E., assignor.)
- Miller, Frank E., New York, N. Y. Cuspidal-diaphragm construction. No. 1,294,137; Feb. 11; v. 259; p. 302.
- Miller, Frank E., New York, N. Y. Ear-protector. No. 1,305,828; June 3; v. 263; p. 113.
- Miller, Frank F., Sioux Falls, S. D. Clothes-line support. No. 1,303,491; May 13; v. 262; p. 218.
- Miller, Frank J. (See Thorne and Miller.)
- Miller, Frank L., assignor to Perfection Wood Steaming Retort Co., Parkersburg, W. Va. Fastener for retort-doors. No. 1,300,633; Apr. 15; v. 261; p. 503.
- Miller, Frank O., Portsmouth, Ohio. Blast-furnace. No. 1,298,761; Apr. 1; v. 261; p. 34.
- Miller, Frank W., Chicago, Ill. Apparatus for blowing off, washing, and refilling locomotive-boilers. No. 1,318,786; Oct. 14; v. 267; p. 276.
- Miller, Fred J. and A. H., Silver City, Iowa. Gun-shield. No. 1,320,888; Nov. 4; v. 268; p. 100.
- Miller, Frederick L., Newark, N. J. Forming box-like receptacle members. No. 1,319,161; Oct. 21; v. 267; p. 374.
- Miller, Freeman P., Baldwinville, N. Y. Forced-draft system and smoke-consumer. No. 1,297,582; Mar. 18; v. 260; p. 457.
- Miller, George, assignor of one-half to J. C. Kern, Buffalo, N. Y. Window-sash lock. No. 1,294,934; Feb. 18; v. 259; p. 523.
- Miller, George E. (See Cantrell and Miller.)
- Miller, George E., Stege, Calif. Saw-handle fastener. No. 1,303,492; May 13; v. 262; p. 218.
- Miller, George E., Sacramento, assignor to E. Clemens Horst Co., San Francisco, Calif. Fruit and vegetable slicer. No. 1,326,082; Dec. 23; v. 269; p. 660.
- Miller, George F., New York, N. Y. Filter-press plate. No. 1,308,438; July 1; v. 264; p. 78.
- Miller, George F., New York, N. Y. Joint for filter-press devices. No. 1,313,318; Aug. 19; v. 265; p. 327.
- Miller, George N., South Bend, Ind. Automatic auxiliary fluid-supply tank. No. 1,325,649; Dec. 23; v. 269; p. 580.
- Miller, Harry A., and F. M. Adamson, Los Angeles, Calif. Carburetor. No. 1,301,483; Apr. 22; v. 261; p. 715.
- Miller, Harry G., assignor, by mesne assignments, to The Vocalstyle Music Company, Cincinnati, Ohio. Perforated music-sheet for automatic musical instruments. No. 1,321,231; Nov. 11; v. 268; p. 228.
- Miller, Harry M., assignor of one-half to Brown, Hanson and Boettcher, Chicago, Ill. Eyeglasses. No. 1,291,593; Jan. 14; v. 258; p. 399.
- Miller, Henry A., Meadville, Pa. Paper duster. No. 1,309,537; July 8; v. 264; p. 311.
- Miller, Henry C., Milwaukee, Wis. Loose-leaf-backing member. No. 1,314,687; Sept. 2; v. 266; p. 41.
- Miller, Henry C., Watford, N. Y. Loader for button-hole-machines. No. 1,300,446; Apr. 15; v. 261; p. 464.



## Alphabetical list of patentees—Continued.

- Miller, Henry C., assignor to J. A. Miller and L. B. Cope, Omaha, Nebr. Drawer-stop. No. 1,295,186; Feb. 25; v. 259; p. 603.
- Miller, Henry J., Boston, Mass., assignor to Ideal Coated Paper Company. Veneering-tape. No. 1,322,257; Nov. 18; v. 268; p. 472.
- Miller, Herbert G. (See King and Miller.)
- Miller, Herman. (See Wayditch, Aloysius, assignor.)
- Miller, Herman F., Wittenberg, Wis. Wagon-bolster and detachable stake. No. 1,326,413; Dec. 30; v. 269; p. 758.
- Miller, Hettie T. (See Price, James W., assignor.)
- Miller, Hiram C., Parkersburg, Pa. Locking device for steering-wheels. No. 1,303,354; May 13; v. 262; p. 193.
- Miller, Jacob J., Flushing, N. Y., assignor of one-third to P. Donovan, Burlington, and one-third to F. Boehmer, Colchester, Vt. Wheel. No. 1,303,101; May 6; v. 262; p. 118.
- Miller, James M., Washington, D. C. Means for vaporizing liquid fuel. No. 1,310,245; July 15; v. 264; p. 477.
- Miller, James R., Okmulgee, Okla. Process and apparatus for refining oils. No. 1,312,265; Aug. 5; v. 265; p. 76.
- Miller, Jesse E., Knoxville, Tenn. Mill-tube. No. 1,295,347; Feb. 25; v. 259; p. 640.
- Miller, Jesse E., Knoxville, Tenn. Bag-closing machine. No. 1,321,232; Nov. 11; v. 268; p. 228.
- Miller, Joe, Pittsburgh, Pa. Vehicle-top. No. 1,322,326; Nov. 18; v. 268; p. 485.
- Miller, John, Amesbury, Mass., assignor to J. Miller, Jr., Washington, D. C. Automobile-door lock. No. 1,300,991; Apr. 15; v. 261; p. 579.
- Miller, John, Jr. (See Miller, John, assignor.)
- Miller, John A. (See Larkin, William, assignor.)
- Miller, John A., Dow City, Iowa. Internal-combustion engine. No. 1,310,668; July 22; v. 264; p. 586.
- Miller, John A., Homewood, Ill. Pleasure-railway structure. No. 1,319,888; Oct. 28; v. 267; p. 534.
- Miller, John B., Detroit, Mich. Machine for cutting or slicing food products. No. 1,296,102; Mar. 4; v. 260; p. 65.
- Miller, John C., Philadelphia, Pa. Hand-grenade. No. 1,319,103; Oct. 21; v. 267; p. 361.
- Miller, John C., Covington, Ky., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Bottle-handling apparatus. No. 1,296,547; Mar. 4; v. 260; p. 163.
- Miller, John C., Covington, Ky., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Bottle-canning apparatus. No. 1,300,754; Apr. 15; v. 261; p. 529.
- Miller, John C., Covington, Ky., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Bottle-washing mechanism. No. 1,316,457; Sept. 16; v. 266; p. 388.
- Miller, John J., Los Angeles, Calif. Collapsible core for molding concrete walls. No. 1,319,929; Oct. 28; v. 267; p. 542.
- Miller, John L., Fort Collins, Colo. Automobile-tire. No. 1,318,575; Oct. 14; v. 267; p. 236.
- Miller, John M., Sewickley, assignor to Tate Jones & Company, Incorporated, Pittsburgh, Pa. Hydrocarbon-burner. No. 1,302,826; May 6; v. 262; p. 65.
- Miller, John M., Sewickley, assignor to Tate Jones & Company, Incorporated, Pittsburgh, Pa. Hydrocarbon-burner. No. 1,302,827; May 6; v. 262; p. 66.
- Miller, John M., assignor to H. Walker, Sewickley, Pa. Liquid storage and delivery apparatus. No. 1,307,827; June 24; v. 263; p. 578.
- Miller, John M., assignor to H. Walker, Sewickley, Pa. Liquid storage and delivery apparatus. No. 1,307,828; June 24; v. 263; p. 578.
- Miller, John M., assignor to H. Walker, Sewickley, Pa. Liquid storage and delivery apparatus. No. 1,307,829; June 24; v. 263; p. 579.
- Miller, John P., *et al.* (See De Camp, James W., assignor.)
- Miller, John R., Harlem, Mont. Fire-guard machine. No. 1,316,496; Sept. 16; v. 266; p. 396.
- Miller, John R., Harlem, Mont. Post-hole borer. No. 1,316,497; Sept. 16; v. 266; p. 396.
- Miller, John W. (See Sidenstricker and Miller.)
- Miller, John W., assignor to Boeing Airplane Co., Seattle, Wash. Steering mechanism for aeroplanes. No. 1,290,280; Jan. 7; v. 258; p. 65.
- Miller, John W., assignor to Boeing Airplane Company, Seattle, Wash. Fitting for airplanes. No. 1,290,281; Jan. 7; v. 258; p. 65.
- Miller, Joseph C., assignor of one-half to J. O'Brien, St. Paul, Minn. Fan-bracket and belt-tightener. No. 1,311,527; July 29; v. 264; p. 780.
- Miller, Joseph W., assignor of one-fourth to W. P. Neff, one-fourth to F. E. Smith, and one-fourth to J. C. Vaughan, Miami, Okla. Ore-separating machine. No. 1,306,270; June 10; v. 263; p. 228.
- Miller, Julia A., *et al.* (See Miller, Henry C., assignor.)
- Miller, Julius J., St. Joseph, Mich. Internal-combustion-engine ignition-indicator. No. 1,313,319; Aug. 19; v. 265; p. 327.
- Miller, Julius J., St. Joseph, Mich., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Wire-bound-box-blank machine. No. 1,291,071; Jan. 14; v. 258; p. 279.
- Miller, Julius J., St. Joseph, Mich., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Stapling-machine. No. 1,291,072; Jan. 14; v. 258; p. 279.
- Miller, Julius J., St. Joseph, Mich., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Machine for making box-blanks. No. 1,295,187; Feb. 25; v. 259; p. 603.
- Miller, Julius J., St. Joseph, Mich., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Wire-bound-box-blank machine. No. 1,324,462; Dec. 9; v. 269; p. 279.
- Miller, Kenard S. (See Crist, Firman R., assignor.)
- Miller, Lawrence G. (See Angier and Miller.)
- Miller, Levi B., Lynn, Mass., assignor to General Electric Company. Device for making jewels. No. 1,298,540; Mar. 25; v. 260; p. 688.
- Miller, Lewis B. (See Kennedy, William, assignor.)
- Miller Lock Company. (See Soley, Frank, assignor.)
- Miller, Louis G., and E. C. Long, Westmont, Pa. Car-door construction. No. 1,319,786; Oct. 28; v. 267; p. 515.
- Miller, Max, New York, N. Y. Means for forming concrete piles. No. 1,296,995; Mar. 11; v. 260; p. 303.
- Miller, Max, and S. H. Golding, New York, N. Y. Tool-bag. No. 1,296,421; Mar. 4; v. 260; p. 136.
- Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Knitted fabric and making the same. No. 1,290,632; Jan. 7; v. 258; p. 149.
- Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Knitted fabric and making same. No. 1,309,582; July 8; v. 264; p. 319.
- Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Circular-knitting machine. No. 1,322,716; Nov. 25; v. 268; p. 610.
- Miller, McKinley, Panora, Iowa. Automatic clutch-operating mechanism. No. 1,317,029; Sept. 23; v. 266; p. 543.
- Miller, Melchior, and A. D. Burg, Le Mars, Iowa; said A. D. Burg assignor to L. J. Burg, St. Paul, Minn. Wrench. No. 1,302,197; Apr. 29; v. 261; p. 881.
- Miller, Nelson A. S., Warren, Minn. Folding step-ladder. No. 1,315,979; Sept. 16; v. 266; p. 299.
- Miller, Nick B., Fairford, Manitoba, Canada. Mousetrap. No. 1,314,200; Aug. 26; v. 265; p. 528.
- Miller, Norman B., New York, N. Y. Packing for piston-rods, plungers, pistons, &c. No. 1,313,320; Aug. 19; v. 265; p. 327.
- Miller, P. E. (See Modlin, Frank E., assignor.)
- Miller Pasteurizing Machine Company, The. (See Miller, John C., assignor.)
- Miller Pasteurizing Machine Company, The. (See Pfouts, Leroy S., assignor.)
- Miller Pasteurizing Machine Company, The. (See Pfouts and Miller, assignors.)
- Miller Pasteurizing Machine Company, The. (See Pitts, George B., assignor.)
- Miller, Paul C., Hagan, Ga. Wheeled cultivator. No. 1,315,567; Sept. 9; v. 266; p. 209.
- Miller, Perce W., McKeesport, Pa. Metal-bending machine. No. 1,322,926; Nov. 25; v. 268; p. 649.
- Miller, Peter J. N. (See Wineire, Ernest C., assignor.)
- Miller, Philip W., Kansas City, Mo. Barrel-emptying apparatus. No. 1,325,796; Dec. 23; v. 269; p. 607.
- Miller, Ralph C., Los Angeles, Calif. Carbon-holder for electric-arc lights. No. 1,304,503; May 20; v. 262; p. 445.
- Miller, Richard L., St. Louis, Mo. Hand concrete-mixer. No. 1,293,506; Feb. 4; v. 259; p. 124.
- Miller, Robert E. (See Belknap, Wilbur C., assignor.)
- Miller, Robert H., assignor to Detroit Stove Works, Detroit, Mich. Stove construction. No. 1,305,394; June 3; v. 263; p. 31.
- Miller, Robert P., and C. J. Bremser, St. Louis, Mo.; said Miller assignor to said Bremser. Brush. No. 1,305,733; June 3; v. 263; p. 95.
- Miller, Royal R., assignor to Electric Rotary Machine Co., Chicago, Ill. Surface-working machine. No. 1,299,989; Apr. 8; v. 261; p. 338.
- Miller, Royal R., assignor to Electric Rotary Machine Co., Chicago, Ill. Surface-working machine. No. 1,299,990; Apr. 8; v. 261; p. 339.
- Miller Rubber Co. (See Griffith, Richard, assignor.)
- Miller Rubber Company, The. (See Brucker, Ferdinand F., assignor.)
- Miller Rubber Company, The. (See Jappe, Kurt W., assignor.)
- Miller Rubber Company. (See Lerch, William G., assignor.)
- Miller, Samuel J. (See Grabert, Gustave W., assignor.)
- Miller Saw-Trimmer Company. (See Smith, Walter H., assignor.)
- Miller Saw-Trimmer Company. (See Welsh, Clyde L., assignor.)
- Miller, Simon M., Bridgewater, Va. Cereal-sprouting oven. No. 1,300,992; Apr. 15; v. 261; p. 580.



- Miller, Springs, Conway, Ark. Garden implement. No. 1,296,202; Mar. 4; v. 260; p. 89.
- Miller, Stanley G., assignor to The General Machinery and Investment Company, St. Paul, Minn. Vehicle-spring construction. No. 1,324,974; Dec. 16; v. 269; p. 437.
- Miller, Stanley G., and D. O. De Witt, assignors to The General Machinery & Investment Company, St. Paul, Minn. Tractor-harvester. No. 1,298,244; Mar. 25; v. 260; p. 624.
- Miller, Stanley G., and D. O. De Witt, assignors to The General Machinery & Investment Company, St. Paul, Minn. Tractor. No. 1,319,721; Oct. 28; v. 267; p. 502.
- Miller, Stuart G., Crockett, Va. Attachment for planters. No. 1,301,291; Apr. 22; v. 261; p. 679.
- Miller, Theodore, Waco, Tex. Converter and smelter. No. 1,314,348; Aug. 26; v. 265; p. 566.
- Miller, Thomas D., Catonsville, Md. Sheet-metal covering. No. 1,298,541; Mar. 25; v. 260; p. 688.
- Miller, Thomas E., Tacoma, Wash. Wrench. No. 1,298,997; Apr. 1; v. 261; p. 88.
- Miller, Thomas S. (See Slattery and Miller.)
- Miller, Thomas S., South Orange, N. J. Winding-engine. No. 1,313,719; Aug. 19; v. 265; p. 403.
- Miller, Thomas S., South Orange, N. J. Towing-engine. No. 1,319,601; Oct. 21; v. 267; p. 457.
- Miller, Thomas S., South Orange, N. J. Towing-engine. No. 1,320,023; Oct. 28; v. 267; p. 559.
- Miller, Tobias, Cleveland, Ohio. Auxiliary seat. No. 1,302,828; May 6; v. 262; p. 66.
- Miller Train Control Corporation, The. (See Murray, William B., assignor.)
- Miller Transmission Company, The. (See Miller, Dorr, assignor.)
- Miller, Uriah C., Waurika, Okla. Knee-pad. No. 1,317,305; Sept. 30; v. 266; p. 632.
- Miller, Valentine W., Fonda, Iowa. Grain-door for cars. No. 1,303,832; May 13; v. 262; p. 281.
- Miller, Victoria G., Kansas City, Mo. Armpit-shield. No. 1,291,073; Jan. 14; v. 258; p. 280.
- Miller, Walter S., Calgary, Alberta, Canada. Controlling device. No. 1,293,160; Feb. 4; v. 259; p. 43.
- Miller, William. (See Young and Miller.)
- Miller, William A., West Etna, Pa. Pipe-die. No. 1,319,602; Oct. 21; v. 267; p. 457.
- Miller, William E., Gobleville, Mich. Sealing-machine. No. 1,299,499; Apr. 8; v. 261; p. 229.
- Miller, William E., Gobleville, Mich. Wrapping-machine. No. 1,324,463; Dec. 9; v. 269; p. 280.
- Miller, William E., Providence, assignor to Gliding Waltz Amusement Co., Pawtucket, R. I. Amusement device. No. 1,306,706; June 17; v. 263; p. 341.
- Miller, William J., Swissvale borough, Pa. Apparatus for manufacturing articles of glass. No. 1,308,095; July 1; v. 264; p. 16.
- Miller, William J., Swissvale borough, Pa. Pressing-plunger mechanism. No. 1,326,365; Dec. 30; v. 269; p. 749.
- Miller, William J., Swissvale, Pa. Mold-press. No. 1,326,765; Dec. 30; v. 269; p. 825.
- Miller, William J., Beaumont, Tex. Change-speed mechanism for tractor-truck motor-vehicles. No. 1,320,263; Oct. 28; v. 267; p. 604.
- Miller, William N., Oakland, Calif. Folding ironing-board. No. 1,300,993; Apr. 15; v. 261; p. 580.
- Miller, William O., San Jose, Calif. Transmission mechanism. No. 1,304,346; May 20; v. 262; p. 414.
- Miller, William O., San Jose, Calif. Tractor-truck mechanism. No. 1,304,347; May 20; v. 262; p. 414.
- Miller, William R., Elizabeth, N. J. Rim and tire. No. 1,307,872; June 24; v. 263; p. 586.
- Miller, William S., Providence, R. I., assignor to A. W. Pusey, Fernwood, Pa. Load-compensator. No. 1,300,755; Apr. 15; v. 261; p. 529.
- Miller, William T., Fresno, Cal. Safety-razor-blade sharpener. No. 1,292,844; Jan. 28; v. 258; p. 754.
- Miller, Wilmer W. (See Pridmore and Miller.)
- Miller, Wilmer W., Ardmore, Pa. Apparatus for transmitting signals. No. 1,309,364; July 8; v. 264; p. 278.
- Millet, Charles W., Johnstown, N. Y. Caster-wheel. No. 1,310,287; July 15; v. 264; p. 485.
- Millikan, Joe W., assignor of one-half to P. O. Kilander, Fort Worth, Tex. Aeroplane. No. 1,290,841; Jan. 7; v. 258; p. 198.
- Milligan, James S., Detroit, Mich. Camp-stove. No. 1,298,762; Apr. 1; v. 261; p. 34.
- Milligan, Robert E. (See Williamson and Milligan.)
- Milligan, William, et al. (See Chilcott, William R., assignor.)
- Milligan, Williams G., Akron, Ohio. Lighting and signaling apparatus for vehicles. No. 1,290,633; Jan. 7; v. 258; p. 150.
- Milliken, Foster, Lawrence, N. Y. Alloy. No. 1,310,363; July 15; v. 264; p. 498.
- Milliken, Foster, Lawrence, N. Y. Alloy. No. 1,314,417; Aug. 26; v. 265; p. 570.
- Milliken, Isaac H., Aspinwall, assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-yoke. No. 1,309,297; July 8; v. 264; p. 266.
- Milliken, Isaac H., Aspinwall, and W. J. Regan, Pittsburgh, assignors to The McConway & Torley Company, Pittsburgh, Pa. Uncoupling and centering mechanism. No. 1,298,370; Mar. 25; v. 260; p. 650.
- Milliken, John T., et al, executors. (See Hubert, Henry J., assignor.)
- Milliken, John T. (See Smith, Arthur D., assignor.)
- Milliken, Peter, Elsinore, Cal. Angle and arc dividing ruler. No. 1,294,935; Feb. 18; v. 259; p. 523.
- Millner, Edgar, St. Louis, Mo. Rack for shoes and the like. No. 1,308,551; July 1; v. 264; p. 99.
- Millner, Harry L., Morganton, N. C. Gas-producer. No. 1,312,411; Aug. 5; v. 265; p. 104.
- Milloy, Edward B., Detroit, Mich. Auxiliary fuse-clip. No. 1,325,698; Dec. 23; v. 269; p. 589.
- Mills, Albert W., West Orange, N. J. Sound-box for phonographs. No. 1,309,766; July 15; v. 264; p. 391.
- Mills, Anson C., assignor to Jackson Fence Company, Jackson, Mich. Fence-machine. No. 1,319,162; Oct. 21; v. 267; p. 374.
- Mills, Anson C., assignor to Jackson Fence Company, Jackson, Mich. Staple-forming machine. No. 1,319,163; Oct. 21; v. 267; p. 374.
- Mills, Asbery T., Richland, Iowa. Stovepipe-holder. No. 1,325,650; Dec. 23; v. 269; p. 580.
- Mills, Charles A., assignor to Davy Brothers, Limited, Sheffield, England. Hydraulic valve. No. 1,293,858; Feb. 11; v. 259; p. 237.
- Mills, Charles F. H. (See Mills and Carrel.)
- Mills, Claud E., Des Moines, Iowa. Combined intake and exhaust manifold. No. 1,317,379; Sept. 30; v. 266; p. 646.
- Mills, E. H., et al., trustees. (See Stanard, Maurice L., assignor.)
- Mills, Emory S., assignor to Muncie Wheel Company, Muncie, Ind. Tractor-drive. No. 1,296,997; Mar. 11; v. 260; p. 303.
- Mills, Frank H., Camden, N. J. Power-transmitting mechanism for drills and the like. No. 1,303,356; May 13; v. 262; p. 194.
- Mills, Frederick S., Los Angeles, Cal. Lamp construction. No. 1,293,161; Feb. 4; v. 259; p. 43.
- Mills, Herbert S. (See Oveson, Carl A., assignor.)
- Mills, Herbert S. (See Sandell, Henry K., assignor.)
- Mills, John, Wyoming, N. J., and J. R. Carson, New York, N. Y., assignors to American Telephone and Telegraph Company. Wireless system. No. 1,309,538; July 8; v. 264; p. 311.
- Mills, Joseph E., Los Angeles, Calif. Suspenders. No. 1,313,321; Aug. 19; v. 265; p. 328.
- Mills, Joseph H., Richmond, Ind. Self-compensating cot. No. 1,308,187; July 1; v. 264; p. 33.
- Mills, Mark H., St. Louis, Mo. Hoisting apparatus. No. 1,321,386; Nov. 11; v. 268; p. 258.
- Mills, Raymond L. and C. F. H., and A. D. Carrel, Grand Rapids, Mich. Sales-tag. No. 1,309,904; July 15; v. 264; p. 416.
- Mills, Samuel L., Montpelier, Vt. Polishing-wheel. No. 1,302,404; Apr. 29; v. 261; p. 921.
- Mills, William, Birmingham, England. Grenade, projectile, and the like. No. 1,295,050; Feb. 18; v. 259; p. 549.
- Mills, William P., and C. M. Bagshaw, assignors to Gimson & Co. (Leicester), Limited, Leicester, England. Pulling-over and like machine. No. 1,293,162; Feb. 4; v. 259; p. 43.
- Mills, Willie G., and C. T. Packard, assignors to Edward Packard and Company, Limited, Ipswich, England. Chamber used in the manufacture of sulfuric acid. No. 1,312,741; Aug. 12; v. 265; p. 198.
- Mills, Willie G., and C. T. Packard, assignors to Edward Packard and Company, Limited, Ipswich, England. Chamber used in the manufacture of sulfuric acid. No. 1,312,742; Aug. 12; v. 265; p. 199.
- Mills Works & Machinery Limited. (See Hardy, George, assignor.)
- Mills Woven Cartridge Belt Company. (See Batchelder, Frank R., assignor.)
- Mills Woven Cartridge Belt Company. (See Lethern, Albert A., assignor.)
- Mills Woven Cartridge Belt Company. (See Macpherson, Peter, assignor.)
- Mills Woven Cartridge Belt Company. (See Osgood, Harry H., assignor.)
- Mills Woven Cartridge Belt Company. (See Sisson, Eugene A., assignor.)
- Mills Woven Cartridge Belt Company. (See Wise, William P., assignor.)
- Millville Machine Company. (See Fredrick and Glaspey, assignors.)
- Millville Machine Company. (See Fredrick, Glaspey, and Cox, assignors.)
- Milmoe, Michael J. (See Redington and Milmoe.)
- Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Driving-wheel. No. 1,312,704; Aug. 12; v. 265; p. 191.
- Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Automatic labeling-machine. No. 1,315,737; Sept. 9; v. 266; p. 239.
- Milmoe, Michael J., assignor to F. B. Redington Co., Chicago, Ill. counter. No. 1,297,738; Sept. 9; v. 266; p. 239.
- Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Sheet-feeding mechanism. No. 1,315,739; Sept. 9; v. 266; p. 239.
- Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Coating mechanism. No. 1,315,740; Sept. 9; v. 266; p. 239.



## Alphabetical list of patentees—Continued.

- Milmoe, Michael J., and F. B. Redington, assignors to F. B. Redington Company, Chicago, Ill. Blank-feeding device. No. 1,291,074; Jan. 14; v. 258; p. 280.
- Milmore, Ben E., Montreal, Quebec, Canada. Aeroplane. No. 1,295,398; Feb. 25; v. 259; p. 652.
- Milne, Alexander, Newark, N. J. Watch-holder. No. 1,309,865; July 15; v. 264; p. 408.
- Milne, Frank, Calgary, Alberta, Canada. Grapple. No. 1,301,728; Apr. 22; v. 261; p. 762.
- Milne, George G. (See Sunderland, John P., assignor.)
- Milne, George G., Rye, N. Y., assignor to Gould Coupler Company. Electrical regulating apparatus. No. 1,320,487; Nov. 4; v. 268; p. 24.
- Milne, George M., Detroit, Mich. Gear-shifter for change-speed gearing. No. 1,318,167; Oct. 7; v. 267; p. 96.
- Milne, Isaac B. (See Hadfield, Jack, Milne, and Parker.)
- Milne, Lillie A., Fresno, Calif. Preservative for leather and leather substitutes. No. 1,307,059; June 17; v. 263; p. 406.
- Milne, Samuel, Edinburgh, Scotland. Fourdrinier paper-making machine. No. 1,303,493; May 13; v. 262; p. 218.
- Milo Bar-Bell Co., The. (See Calvert, Alan, assignor.)
- Milon, Frank J., et al. (See Eckenroth, Philip, assignor.)
- Milton, J. O., et al. (See May, Jesse A., assignor.)
- Milton, John L., Louisville, Ky., assignor to Motor Ignition & Devices Company. Making electric coils. No. 1,326,366; Dec. 30; v. 269; p. 749.
- Milwaukee Corrugating Company. (See Flagge, Philipp F., assignor.)
- Milwaukee Corrugating Company. (See Kuehn, Louis, assignor.)
- Milwaukee Lace Paper Company. (See Harvey, Harold C., assignor.)
- Milwaukee Paper Box Company. (See Carlson, Walter C., assignor.)
- Milwaukee Reliance Boiler Works. (See Bassett and Sharp, assignors.)
- Milwaukee Reliance Boiler Works. (See Keller and Sharp, assignors.)
- Mimica, Vicko S., et al. (See Arch, Charles J., assignor.)
- Mims, Norman M., Seville, Fla. Clothes-pin-making machine. No. 1,305,921; June 3; v. 263; p. 131.
- Minard, Ernest E., Detroit, Mich. Four-way valve. No. 1,300,220; Apr. 8; v. 261; p. 390.
- Minard, Ernest E., Detroit, Mich. Four-way valve. No. 1,317,211; Sept. 30; v. 266; p. 614.
- Minck, Paul, Hermsdorf, unter Kynast, Germany. Producing cellulose formations. No. 1,317,306; Sept. 30; v. 266; p. 632.
- Minea, Louis A. (See Blanchard, Schneeman, and Minea.)
- Miner, Charles A., assignor to Limousine Top Company, Kalamazoo, Mich. Door and window for vehicle-bodies. No. 1,298,763; Apr. 1; v. 261; p. 34.
- Miner, Charles A., assignor to Limousine Top Co., Kalamazoo, Mich. Vehicle-body. No. 1,307,787; June 24; v. 263; p. 571.
- Miner Chemical Corporation, The. (See Miner, Claude G., assignor.)
- Miner, Claude G., Berkeley, assignor to The Miner Chemical Corporation, San Francisco, Calif. Recovering alumina. No. 1,324,318; Dec. 9; v. 269; p. 251.
- Miner, Frank J., et al. (See Aborn, Albert, assignor.)
- Miner, Frederick O., Crafton, Pa. Ground-working tool. No. 1,303,570; May 13; v. 262; p. 232.
- Miner, George H., San Francisco, Calif. Telephone-receiver support. No. 1,317,933; Oct. 7; v. 267; p. 52.
- Miner, Louis H. (See Savage and Miner.)
- Miner, Lucien L., Tyrone, N. Mex. Cover for paste-tubes. No. 1,311,004; July 22; v. 264; p. 648.
- Miner, William H. (See Bock, William A., assignor.)
- Miner, William H. (See Bock, William A. and R. G., assignors.)
- Miner, William H. (See Dath, Charles E., assignor.)
- Miner, William H. (See Dwyer, William H., assignor.)
- Miner, William H. (See Dwyer, William M., assignor.)
- Miner, William H. (See Geiger, William A., assignor.)
- Miner, William H. (See Harris, Joseph, assignor.)
- Miner, William H. (See Hveem, John J., assignor.)
- Miner, William H. (See Johnson, Bradley S., assignor.)
- Miner, William H. (See Johnson, George A., assignor.)
- Miner, William H. (See Lewis, Goodrich Q., assignor.)
- Miner, William H. (See Lounsbury, Harvey J., assignor.)
- Miner, William H. (See Mitchell, John R., assignor.)
- Miner, William H. (See Nystrom, Karl F., assignor.)
- Miner, William H. (See O'Connor, John F., assignor.)
- Miner, William H. (See Patch, Calvin B., assignor.)
- Miner, William H. (See Strid, Sven J., assignor.)
- Miner, William H. (See Williams, Keith, assignor.)
- Miner, William H. (See Withall, Arthur, assignor.)
- Miner, William H., Chazy, N. Y. Bumper for railway-cars. No. 1,290,282; Jan. 7; v. 258; p. 65.
- Miner, William H., Chazy, N. Y. Draft-rigging. No. 1,300,447; Apr. 15; v. 261; p. 464.
- Miner, William H., Chazy, N. Y. Railway draft-rigging. No. 1,301,961; Apr. 29; v. 261; p. 838.
- Miner, William H., Chazy, N. Y. Friction-gear. No. 1,307,303; June 17; v. 263; p. 450.
- Mineral Products Corporation. (See MacDowell and Hershman, assignors.)
- Minerallac Electric Company. (See Hughes, Chester B., assignor.)
- Minerallac Electric Company. (See Sines, Harold S., assignor.)
- Minerals Separation American Syndicate (1913) Limited. (See Seale and Shellshear, assignors.)
- Minerals Separation North American Corporation. (See Emerson, Edward H., assignor.)
- Minerals Separation North American Corporation. (See Seale and Shellshear, assignors.)
- Minerals Separation North American Corporation. (See Williams, Rowland T. D., assignor.)
- Minger, John A., Bern, Kans. Washing-machine. No. 1,301,292; Apr. 22; v. 261; p. 679.
- Minges, Clarence J., Rochester, N. Y. Poultry-feeder. No. 1,301,587; Apr. 22; v. 261; p. 733.
- Mingle, Joseph P., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glassware-transferring machine. No. 1,325,527; Dec. 23; v. 269; p. 577.
- Mingle, Joseph P., and A. G. Wilson, Muncie, Ind. Apparatus for transferring glass articles to annealing-furnaces. No. 1,321,072; Nov. 4; v. 268; p. 134.
- Mingst, Charles P., Evansville, Ind. Priming-cup. No. 1,308,913; July 8; v. 264; p. 194.
- Mining Safety Device Company, The. (See Nolan, James A., assignor.)
- Mink, Benjamin L., Philadelphia, Pa. Paper-clip. No. 1,298,542; Mar. 25; v. 260; p. 689.
- Mink, Conrad, Holgate, Ohio. Fruit-stoner. No. 1,305,395; June 3; v. 263; p. 31.
- Minkler, Chester T. (See Fullinwider and Minkler.)
- Minkler, Chester T., Newport, R. I., assignor to Government of the United States. Drifting mine. No. 1,295,051; Feb. 18; v. 259; p. 549.
- Minkler, Ray A., Carthage, Mo. Golf-ball-washing device. No. 1,320,633; Nov. 4; v. 268; p. 51.
- Minneapolis Bedding Company. (See Linn, James F., assignor.)
- Minneapolis Heat Regulator Company. (See Denison, Frederick S., assignor.)
- Minnesota Manufacturers' Association. (See Lister, Charles H., assignor.)
- Minnesota Stove Company, The. See Nye, Charles W., assignor.)
- Minnesota Tractor Company. (See Brown and Martin, assignors.)
- Minnich, Mary C. (See Minnich, Simon B., assignor.)
- Minnich, Simon B., assignor to M. C. Minnich, Landisville, Pa. Tobacco-press. No. 1,306,604; June 10; v. 263; p. 289.
- Minnich, Simon B., assignor to M. C. Minnich, Landisville, Pa. Press. No. 1,312,228; Aug. 12; v. 265; p. 294.
- Minnick, Howard B., Chicago, Ill. Toy mold. No. 1,317,093; Sept. 23; v. 266; p. 556.
- Minnis, George F., Chicago, Ill. Safety-anchor. No. 1,319,889; Oct. 28; v. 267; p. 534.
- Minnis, George F., Chicago, Ill. Safety-anchor. No. 1,319,890; Oct. 28; v. 267; p. 535.
- Minns, Henry C., Toronto, Ontario, Canada. Testing device for ignition systems of internal-combustion motors. No. 1,297,715; Mar. 18; v. 260; p. 486.
- Minnis, Henry M., Wylie, Tex. Window-shade-operating device. No. 1,325,105; Dec. 16; v. 269; p. 461.
- Minol Chemical Company, The. (See Hurt, Spencer M., assignor.)
- Minor, Frank W., Richmond, Va. Projector. No. 1,292,005; Jan. 21; v. 258; p. 532.
- Minor, William F. (See Rolph and Minor.)
- Minorsky, Nicolai, Petrograd, Russia, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyrometer. No. 1,306,552; June 10; v. 263; p. 279.
- Minsk, Clarence, New York, N. Y. Stirring device. No. 1,313,830; Aug. 19; v. 265; p. 423.
- Minter, Arthur B., Richmond, Calif. Valve-spring compressor. No. 1,315,383; Sept. 9; v. 266; p. 176.
- Minter, Charles, Portland, Ore. Tiltable and cover-lifting support for covered containers. No. 1,292,006; Jan. 21; v. 258; p. 533.
- Minto, R. A. (See Johnson, Charley L., assignor.)
- Minton, John S., Hastings, Nebr. Hoisting attachment for dump-bodies. No. 1,304,792; May 27; v. 262; p. 538.
- Minton, Ogden, Short Hills, N. J. Method and apparatus for continuously coating or impregnating material. No. 1,322,327; Nov. 18; v. 268; p. 485.
- Minty, Alexander T., Brandon, Manitoba, Canada. Harrow-cart. No. 1,306,352; June 10; v. 263; p. 243.
- Mintz, Harry, Boston, Mass. Hammock. No. 1,308,096; July 1; v. 264; p. 17.
- Mintz, Julius, New York, N. Y. Ticket-assembling apparatus. No. 1,309,044; July 8; v. 264; p. 219.
- Mintz, Julius, New York, N. Y. Hand-stamp. No. 1,323,782; Dec. 2; v. 269; p. 105.
- Mintzloff, William A., Dayton, Ohio. Non-slipping attachment for overshoes. No. 1,303,571; May 13; v. 262; p. 232.
- Minute Tapioca Company. (See Gridley, Eben E., assignor.)
- Miracky, Barney J. (See Powell and Miracky.)



- Miracle Artificial Arm Co., The. (See Henning, Frederick C., assignor.)
- Miris Steel Company, The. (See Dear, Charles, assignor.)
- Mirrey, James. (See Coates and Mirrey.)
- Misener, John I., assignor of one-fourth to C. H. Searl, Syracuse, N. Y. Projectile. No. 1,321,068; Nov. 4; v. 268; p. 134.
- Misfeldt, Max H., assignor of one-half to G. F. Thompson, Malto, Mont. Oil-can. No. 1,293,859; Feb. 11; v. 259; p. 237.
- Miskey, Julius, Dayton, Ohio. Automobile-lamp control mechanism. No. 1,314,281; Aug. 26; v. 265; p. 544.
- Miskimen, Judson H., Glendive, Mont. Automobile-rim. No. 1,303,357; May 13; v. 262; p. 194.
- Mispel, Paul, West New York, N. J. Toy bomb. No. 1,315,851; Sept. 9; v. 266; p. 260.
- Mississippi Valley Iron Company. (See Erwin, Robert W., assignor.)
- Mississippi Valley Iron Company. (See Goltra, Moffitt, Dana, and Erwin, assignors.)
- Mississippi Valley Iron Company. (See Maffitt, Thomas S., assignor.)
- Mitcham, James L. and J. W. Burns, Rockdale, Tex. Scoop. No. 1,313,408; Aug. 19; v. 265; p. 344.
- Mitchell, Albert W., assignor to Winchester Repeating Arms Co., New Haven, Conn. Snap-gage. No. 1,314,888; Sept. 2; v. 266; p. 77.
- Mitchell, Alexander, Pueblo, Colo. Plow. No. 1,307,918; June 24; v. 263; p. 595.
- Mitchell, Archibald M. C., Correctionville, Iowa. Non-freezable automatic fountain. No. 1,320,264; Oct. 28; v. 267; p. 604.
- Mitchell, Archie A., Coon Rapids, Iowa. Seed-corn stringer and hanger. No. 1,292,007; Jan. 21; v. 258; p. 533.
- Mitchell, Benjamin M., New York, N. Y. Belt-fastener. No. 1,318,576; Oct. 14; v. 267; p. 236.
- Mitchell-Bissell Co. (See Cass, Freeman, assignor.)
- Mitchell, Clarence H., Waterbury, Nebr. Switch-actuating mechanism. No. 1,325,797; Dec. 23; v. 269; p. 607.
- Mitchell, Ewen H., assignor of one-third to A. E. Short and one-third to H. O. Short, Bedford, England. Airship of rigid type. No. 1,314,349; Aug. 26; v. 265; p. 557.
- Mitchell, Ewen H., assignor of one-third to A. E. Short and one-third to H. O. Short, Bedford, England. Airship of rigid type. No. 1,314,350; Aug. 26; v. 265; p. 557.
- Mitchell, Frederick G. (See Parnall and Mitchell.)
- Mitchell, Frederick W. (See Bacon, William M., assignor.)
- Mitchell, George A., assignor of one-half to H. A. Gilbert, Aberdeen, Md. Vehicle-wheel. No. 1,292,504; Jan. 28; v. 258; p. 673.
- Mitchell, Henry J. (See Ford and Mitchell.)
- Mitchell, James W., Lubec, Me., assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Fluid-pressure-actuated valve. No. 1,307,207; June 17; v. 263; p. 432.
- Mitchell, John, Pine Bluff, Ark. Napkin-receptacle. No. 1,315,852; Sept. 9; v. 266; p. 260.
- Mitchell, John C., East Orange, N. J. Dumping-bucket. No. 1,312,705; Aug. 12; v. 265; p. 192.
- Mitchell, John C., and G. C. Bartram, East Orange, N. J. Concrete drain-pipe. No. 1,293,163; Feb. 4; v. 259; p. 44.
- Mitchell, John C., G. C. Bartram, East Orange, and A. M. Hirsh, Montclair, assignors to Lock Joint Pipe Company, Ampere, N. J. Pipe-joint. No. 1,293,615; Feb. 4; v. 259; p. 148.
- Mitchell, John E., Springfield township, Summit county, Ohio. Safety-catch for elevators. No. 1,316,498; Sept. 16; v. 266; p. 396.
- Mitchell, John E., St. Louis, Mo. Boll-breaking and cotton-separating machine. No. 1,322,927; Nov. 25; v. 268; p. 649.
- Mitchell, John H., Northampton, Pa. Laceless corset. No. 1,294,138; Feb. 11; v. 259; p. 303.
- Mitchell, John R. (See Lewis and Mitchell.)
- Mitchell, John R., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Refrigerator-door fastener. No. 1,290,283; Jan. 7; v. 258; p. 65.
- Mitchell, John R., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing. No. 1,290,284; Jan. 7; v. 258; p. 66.
- Mitchell, John R., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,290,285; Jan. 7; v. 258; p. 66.
- Mitchell, John R., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Adjustable roller side bearing. No. 1,290,286; Jan. 7; v. 258; p. 66.
- Mitchell, John R., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Spring friction draft-gear. No. 1,300,448; Apr. 15; v. 261; p. 464.
- Mitchell, John R., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,316,588; Sept. 23; v. 266; p. 462.
- Mitchell, John R., Evanston, Ill., assignor to W. H. Miner, Chazy, N. Y. Buffer-plate for passenger-cars. No. 1,311,988; Aug. 5; v. 265; p. 25.
- Mitchell, John R., Evanston, Ill., assignor to W. H. Miner, Chazy, N. Y. Insulation for refrigerator-cars and the like. No. 1,314,090; Aug. 26; v. 265; p. 507.
- Mitchell, Joseph, Salisbury, Md. Ironing-board. No. 1,324,611; Dec. 9; v. 269; p. 308.
- Mitchell Manufacturing Company. See Mitchell, William, assignor.)
- Mitchell, Moorehouse, Quebec, Quebec, Canada. Preserving roller-blocks. No. 1,315,607; Sept. 9; v. 266; p. 216.
- Mitchell, Oliver, Brookline, Mass. Tire-carrier. No. 1,304,696; May 27; v. 262; p. 520.
- Mitchell, Ormah R., Oak Park, assignor to American Steel Foundries, Chicago, Ill. Supporting mechanism for brakes. No. 1,302,575; May 6; v. 262; p. 18.
- Mitchell, Oscar J., Ingersoll, Ontario, Canada. Combined wagon and hearse body for motors with movable attachments. No. 1,312,561; Aug. 12; v. 265; p. 193.
- Mitchell, Robert G., Mount Vernon, N. Y. Sound reproducing and recording apparatus. No. 1,313,720; Aug. 19; v. 265; p. 403.
- Mitchell, William. (See Sturdy, Fred, assignor.)
- Mitchell, William, assignor to Mitchell Manufacturing Company, Milwaukee, Wis. Carrier-boom. No. 1,314,010; Aug. 26; v. 265; p. 492.
- Mitchell, William, assignor to The Harold A. Wilson Company of Toronto Limited, Toronto, Ontario, Canada. Toy. No. 1,320,889; Nov. 4; v. 268; p. 100.
- Mitchell, William D., Roanoke, Va. Brushing-machine. No. 1,316,174; Sept. 16; v. 266; p. 334.
- Mitchell, William H., et al. (See Gueatal, Ernest J., assignor.)
- Mitchell, William H., Chicago, Ill. Stove. No. 1,298,245; Mar. 25; v. 260; p. 624.
- Mitchell, William H., East St. Johnsbury, Vt. Chain mat for wheel-tires. No. 1,311,989; Aug. 5; v. 265; p. 25.
- Mitchell, William H., Richmond, Ind. Attachment for lawn-mowers. No. 1,315,384; Sept. 9; v. 266; p. 177.
- Mitchell, William M., Louisville, Ky. Rail-anchor. No. 1,292,845; Jan. 28; v. 258; p. 755.
- Mitchell, William M., Louisville, Ky. Anticreeping device for railway-rails. No. 1,292,846; Jan. 28; v. 258; p. 755.
- Mitchell, William S. (See Garlick, Guy M., assignor.)
- Mitchell, William S., Eveleth, Minn. Circuit-breaker. No. 1,323,897; Dec. 2; v. 269; p. 127.
- Mitro, George, Darby, Pa. Vehicle-wheel. No. 1,306,921; June 17; v. 263; p. 381.
- Mittag, Frank O., Park Ridge, N. J. Boat. No. 1,295,784; Feb. 25; v. 259; p. 742.
- Mittag, Frank O., Park Ridge, N. J. Boat. No. 1,307,873; June 24; v. 263; p. 587.
- Mittasch, Alwin. (See Neresheimer, Bosche, and Mittasch.)
- Mittasch, Alwin, assignor to Alien Property Custodian. Producing hydrogen. No. 1,301,151; Apr. 22; v. 261; p. 650.
- Mittelstaedt, George W., Morton Grove, Ill. Fly-escape screen. No. 1,305,147; May 27; v. 262; p. 604.
- Mitten, Worth L., Davenport, Iowa. Manufacturing tires. No. 1,302,405; Apr. 29; v. 261; p. 921.
- Mittinger, George E., Youngstown, Ohio. Outlet-valve and operating mechanism for tank-cars. No. 1,301,729; Apr. 22; v. 261; p. 762.
- Mittleberg, Harris, New York, N. Y., assignor to American Invisible Stitching Machine Co., Inc. Sewing-machine attachment. No. 1,300,184; Apr. 8; v. 261; p. 382.
- Mittleburg, Saul, Altoona, Pa. Display device. No. 1,315,524; Sept. 9; v. 266; p. 202.
- Mittleburg, Saul, Altoona, Pa. Display device. No. 1,317,307; Sept. 30; v. 266; p. 632.
- Miyake, Kiichi, Tokyo, Japan. Raw material for woven articles and manufacturing it. No. 1,316,848; Sept. 23; v. 266; p. 510.
- Miyamoto, Jutaro. (See Takasaki and Miyamoto.)
- Miyasaki, Giichi, Los Angeles, Calif. Toilet-signal device. No. 1,323,539; Dec. 2; v. 269; p. 60.
- Mizusawa, Isoma, et al. (See Yamamoto, Yoshitaro, assignor.)
- Mizzy, Ruth. (See Movshovitch, Max, assignor.)
- Moan, John H., et al. (See Bergren, John A., assignor.)
- Moard, Eric, assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Signal-horn. No. 1,294,936; Feb. 18; v. 259; p. 524.
- Moard, Eric, assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Signaling device. No. 1,313,006; Aug. 12; v. 265; p. 251.
- Moberg, Emil. (See Anderson, Albin, assignor.)
- Mobley, Lewis K., New York, N. Y. Automatic spraying-bottle. No. 1,298,543; Mar. 25; v. 260; p. 689.
- Mochulsky, Anthony M., New York, N. Y. Creeper attachment. No. 1,302,198; Apr. 29; v. 261; p. 881.
- Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-supply system for internal-combustion engines. No. 1,315,231; Sept. 9; v. 266; p. 148.
- Mock, George W., Roaring Spring, Pa. Automobile-steering-gear attachment. No. 1,290,634; Jan. 7; v. 258; p. 150.
- Mock, Herbert O. (See Riley and Mock.)
- Mock, Herbert O. (See Riley, Sherman, and Mock.)
- Mock, Herbert O. (See Sherman and Mock.)
- Mock, Hugo, New Brighton, N. Y. Collapsible container. No. 1,293,860; Feb. 11; v. 259; p. 237.



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- Mock, Hugo, New Brighton, N. Y. Heat-insulator. No. 1,297,583; Mar. 18; v. 260; p. 457.
- Mock, Hugo, New York, N. Y. Picture-hanger. No. 1,297,584; Mar. 18; v. 260; p. 457.
- Mock, Hugo, New York, N. Y. Refrigerator-lining. No. 1,309,866; July 15; v. 264; p. 409.
- Mock, Otto D., Louisville, Ky. Stop for hollow tiles. No. 1,311,082; July 22; v. 264; p. 663.
- Modern Grinder Manufacturing Co. (See Bockshe, Ely, assignor.)
- Modern Specialties Mfg. Co. (See Goodman, Nathan J., assignor.)
- Modern Tool Company. (See Knapp, Charles J., assignor.)
- Modlin, Frank E., Fort Worth, Tex. Gas-producer. No. 1,295,188; Feb. 25; v. 259; p. 604.
- Modlin, Frank E., Fort Worth, assignor to P. E. Miller, Tarrant county, Tex. Gas-purifier. No. 1,316,330; Sept. 16; v. 266; p. 364.
- Mody, Lewis F., Philadelphia, Pa. Rotary pump with adjustable gate. No. 1,322,810; Nov. 25; v. 268; p. 627.
- Moe, John. (See Ackerman and Moe.)
- Moe, Sivert. (See Brower and Moe.)
- Moeller, Annetta, Indianapolis, Ind. Holder for personal-treatment preparations. (Reissue.) No. 1,4619; Mar. 25; v. 260; p. 707.
- Moeller, Joseph F. (See Hyman and Moeller.)
- Moellmer, Ernest, Ludell, Kans. Combined cut-out and alarm. No. 1,303,939; May 20; v. 262; p. 338.
- Moon, Thorey I., Beloit, Wis. Saw-set. No. 1,317,807; Oct. 7; v. 267; p. 28.
- Moering, Alexander K., Newark, N. J., assignor to The Kny-Scheerer Corporation. Rotary cutter for plaster-of-Paris bandages. No. 1,316,252; Sept. 16; v. 266; p. 349.
- Moerk, Frank X., Philadelphia, Pa. Perpetual monthly calendar. No. 1,310,428; July 22; v. 264; p. 542.
- Moeschl, John, St. Bernard, Ohio. Billiard-cue chalker. No. 1,294,139; Feb. 11; v. 259; p. 303.
- Moeys, Emile G., Nymegen, Netherlands. Preparing sublimate. No. 1,312,743; Aug. 12; v. 265; p. 199.
- Moffat, Frederick W., Weston, Ontario, Canada. Electric water-heater. No. 1,320,890; Nov. 4; v. 268; p. 100.
- Moffat, Frederick W., Weston, Ontario, Canada. Electric heating element. No. 1,323,084; Nov. 25; v. 268; p. 679.
- Moffatt, James W., Toronto, Ontario, Canada. Treating metallic oxids. No. 1,294,514; Feb. 18; v. 259; p. 426.
- Moffatt, Clarence W., Maywood, Ill. Insole-making machine. No. 1,298,371; Mar. 25; v. 260; p. 650.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Folding device. No. 1,291,075; Jan. 14; v. 258; p. 281.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,292,008; Jan. 21; v. 258; p. 533.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,296,002; Mar. 4; v. 260; p. 41.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Overseaming-machine. No. 1,300,449; Apr. 15; v. 261; p. 464.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,306,605; June 10; v. 263; p. 289.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,307,264; June 17; v. 263; p. 443.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine and trimming mechanism therefor. No. 1,312,412; Aug. 5; v. 265; p. 104.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,312,413; Aug. 5; v. 265; p. 105.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Take-up mechanism for sewing-machines. No. 1,313,721; Aug. 19; v. 265; p. 403.
- Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Thread-nipper. No. 1,312,799; Aug. 12; v. 265; p. 210.
- Moffitt, Ralph D., Lexington, N. C. Computing-pump. No. 1,303,708; May 13; v. 262; p. 257.
- Moffler, Stephen, Chicago, Ill. Combination bicycle-lock. No. 1,291,076; Jan. 14; v. 258; p. 281.
- Mozan, Christopher J., Charlelot, Pa. Coating bundles of wire. No. 1,314,889; Sept. 2; v. 266; p. 77.
- Mohawk Metal Toy Co. (See Heyman, David, assignor.)
- Mohler, Charles M., Hagerstown, Ind. Engine-cylinder and crank-case construction. No. 1,299,594; Apr. 8; v. 261; p. 251.
- Mohler, Charles M., Hagerstown, Ind. Internally-packed water-space joint for cylinders and motor-bases. No. 1,320,891; Nov. 4; v. 268; p. 101.
- Mohn, Albert M. (See Mohn, Thomas and A.)
- Mohn, Thomas and A., Red Wing, Minn. Automobile-rim. No. 1,320,404; Nov. 4; v. 268; p. 9.
- Mohr, Frank J., assignor to Stuber & Kuck Company, Peoria, Ill. Flour-sifter. No. 1,298,626; Mar. 25; v. 260; p. 705.
- Mehr, George W., Jersey City, N. J. Horse-overshoe. No. 1,296,203; Mar. 4; v. 260; p. 89.
- Mohr, Joseph M., Eldora, Iowa. Door-operating mechanism. No. 1,301,484; Apr. 22; v. 261; p. 715.
- Mohr, Julius, Milwaukee, Wis. Locking means for extension-tables. No. 1,317,174; Sept. 30; v. 266; p. 607.
- Mohr, Magnus J., Garfield, Utah. Mirror-support. No. 1,317,934; Oct. 7; v. 267; p. 52.
- Mohr, Michel, assignor of one-half to A. B. Kales, Edmonton, Alberta, Canada. Combined bushing and pivot. No. 1,317,808; Oct. 7; v. 267; p. 28.
- Mohr, William D., Baldwin, Iowa. Water-cut-off valve. No. 1,311,830; July 29; v. 264; p. 835.
- Mohr, William H., West Philadelphia, Pa. Hat-pin head. No. 1,306,970; June 17; v. 263; p. 389.
- Mohrdieck, Peter, assignor to Standard Gas Engine Company, The, Oakland, Calif. Internal-combustion engine. No. 1,306,496; June 10; v. 263; p. 270.
- Mohun, John L. (See Vincent and Mohun.) (Reissue.)
- Mohun, John L., Brooklyn, N. Y., and H. R. Stafford, Plainfield, N. J. Lateral-thrust bearing for railway-axles. No. 1,306,387; June 10; v. 263; p. 250.
- Moisant, Alfred J., New York, N. Y., assignor, by mesne assignments, to General Research Laboratories. Ozonizing substances. No. 1,297,716; Mar. 18; v. 260; p. 486.
- Moise, Bolton C., Pittsburgh, Pa. Wire-rope clamp. No. 1,300,994; Apr. 15; v. 261; p. 580.
- Moise, Bolton C., Pittsburgh, Pa. Torpedo-net. No. 1,324,919; Dec. 16; v. 269; p. 427.
- Moisselle, Sol W., assignor to B. J., and E. Klein, Atlanta, Ga. Comb. No. 1,303,572; May 13; v. 262; p. 232.
- Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)
- Mojonnier, Julius J., Oak Park, assignor to Mojonnier Bros. Co., Chicago, Ill. Extraction flask or tube. No. 1,312,340; Aug. 5; v. 265; p. 90.
- Molander, Alexius, Rockford, Ill. Rule-holder. No. 1,319,164; Oct. 21; v. 267; p. 375.
- Mole, Ernest H., assignor to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Buffer. No. 1,298,078; Mar. 25; v. 260; p. 588.
- Molenccki, Edward, assignor of one-half to W. Wasowski, Detroit, Mich. Fire-alarm. No. 1,292,009; Jan. 21; v. 258; p. 533.
- Molin, Louis A. (See Levin and Molin.)
- Molinari, Nicholas J., Brooklyn, N. Y. Safety-valve. No. 1,322,197; Nov. 18; v. 268; p. 460.
- Moline Heat. (See Shurtleff, Wilfred, assignor.)
- Moline Heat. (See Stoltenberg, Thomas R., assignor.)
- Moline Mill Manufacturing Company. (See Gerwen, Julius A., assignor.)
- Moline Plow Company. (See Case Henry J., assignor.)
- Moline Plow Company. (See Crane, William H., assignor.)
- Moline Plow Company. (See Dickinson, Harry S., assignor.)
- Moline Plow Company. (See Esping, Conrad, assignor.)
- Moline Plow Company. (See Funk, Trumann B., assignor.)
- Moline Plow Company. (See Lindgren, Alexis C., assignor.)
- Moline Plow Company. (See Trolley, Isaac, assignor.)
- Moline Plow Company. (See Wallace, Benjamin B., assignor.)
- Moll, De Clinton C. and G. A., Olathe, Kan. Demountable rim for wheels. No. 1,310,364; July 15; v. 264; p. 498.
- Moll, George A. (See Moll, De Clinton C. and G. A.)
- Möller, Anton R., Everett, Mass. Valve. No. 1,310,954; July 22; v. 264; p. 639.
- Moller, Carl N., New York, N. Y. Phonograph-reproducer. No. 1,296,833; Mar. 11; v. 260; p. 264.
- Moller, Hilding, assignor to F. W. Perry, Youngstown, Ohio. Bracket. No. 1,305,922; June 3; v. 263; p. 131.
- Möller, Jacob A. L., New York, N. Y., assignor to Rose & Frank Company. Type-writing ribbon. No. 1,320,634; Nov. 4; v. 268; p. 51.
- Möller, Sune, Göttenborg, Sweden. Cooling utensil. No. 1,311,990; Aug. 5; v. 265; p. 26.
- Möllerhøj, Johannes S., Frederiksberg, near Copenhagen, Denmark. Iron core for induction-coils. No. 1,318,787; Oct. 14; v. 267; p. 276.
- Molnar, Joseph, Goose Bill, Mont. Apparatus for roasting or drying ores. No. 1,296,834; Mar. 11; v. 260; p. 265.
- Moloney, Arthur T. (See Cozad, William C., assignor.)
- Molstad, Alfred, Dedham, Iowa. Rotary valve for explosive-engines. No. 1,326,682; Dec. 30; v. 269; p. 809.
- Moltasch, John, Meriden, Conn. Baker's oven. No. 1,322,928; Nov. 25; v. 268; p. 649.
- Moltrup, James T., Beaver Falls, Pa. Feed-table for rods, bars, pipes, &c. No. 1,298,998; Apr. 1; v. 261; p. 88.
- Moltrup, James T., Beaver Falls, Pa. Apparatus for drawing rods. No. 1,298,999; Apr. 1; v. 261; p. 88.
- Molvig, Jens, Buxton, N. D. Protective shield for small firearms. No. 1,301,293; Apr. 22; v. 261; p. 679.
- Molyneux, George E., Bayonne, N. J. Speed-governed stopping mechanism. No. 1,321,118; Nov. 11; v. 268; p. 206.
- Molyneux, George E., Bayonne, N. J. Transmission for power-table sewing-machines, &c. No. 1,324,129; Dec. 9; v. 269; p. 214.



- Molyneux, George E., Bayonne, N. J., assignor to Wire Wheel Corporation of America. Hub-cap for quick-detachable wheels. No. 1,324,513; Dec. 9; v. 269; p. 289.
- Momyer, Harry H., Dodge City, Kans. Moving-picture projector. No. 1,317,450; Sept. 30; v. 266; p. 659.
- Monacelli John, Medina, N. Y. Punch. No. 1,295,785; Feb. 25; v. 259; p. 742.
- Monaghan, Thomas H., and R. F. Lindeman, Chicago, Ill. Hot-air furnace. No. 1,323,305; Dec. 2; v. 269; p. 15.
- Monahan, James F., Newark, assignor to Edison Storage Battery Company, West Orange, N. J. Tray for battery-cells. No. 1,304,588; May 27; v. 262; p. 500.
- Monahan, Louis J., assignor to Universal Motor Company, Oshkosh, Wis. Governor. No. 1,304,348; May 20; v. 262; p. 414.
- Monahan, Peter, Paterson, N. J., assignor to H. R. Sinclair, Worcester, Mass. Strap-wrench. No. 1,294,515; Feb. 18; v. 259; p. 426.
- Monahan Rotary Engine Corporation. (See Smith, Peter P., Jr., assignor.)
- Monahan, Thomas H., Providence, R. I., assignor, by mesne assignments, to Providence Body Company. Dumping-truck. No. 1,302,406; Apr. 29; v. 261; p. 921.
- Monarch Metal Weather Strip Company. (See Lane, Alfred M., assignor.)
- Monard, Alfred, Paris, France. Railway-indicator. No. 1,295,560; Feb. 25; v. 259; p. 691.
- Monard, Alfred, Paris, France. Apparatus for controlling railway-points. No. 1,322,929; Nov. 25; v. 268; p. 649.
- Moncaster, Matthew, and G. Hollinshead, Rochdale, England. Self-closing or sleeping doll's eyes. No. 1,324,848; Dec. 16; v. 269; p. 413.
- Mondor, Hector J., Holyoke, Mass. Device for making and forming cigarettes. No. 1,296,548; Mar. 4; v. 260; p. 164.
- Moness, Jacob M., Long Island City, N. Y., assignor to Chemical Development Company. Making chlorinated products. No. 1,308,763; July 8; v. 264; p. 167.
- Money, Clarence A. (See La Montaine and Money.)
- Money, George J., London, England. Flare. No. 1,293,507; Feb. 4; v. 259; p. 124.
- Monfet, Denis, Lake Megantic, Quebec, Canada. Lock for double doors. No. 1,319,603; Oct. 21; v. 267; p. 457.
- Monfort, Edgar A., New York, N. Y. Attachment for gloves and cuff-gloves. No. 1,309,150; July 8; v. 264; p. 239.
- Mongardi, Giovanni, Somerville, Mass. Automatic fire-arm. No. 1,296,204; Mar. 4; v. 260; p. 89.
- Monhaupt, Max, Altona-Ottensen, Germany, assignor to Naamlooze Vennootschap Anton Jurgens Vereenigde Fabriken, Oss, Netherlands. Manufacture of a colloidal solution neutral to the taste from casein and vegetable albumen including gluten. No. 1,326,210; Dec. 30; v. 269; p. 720.
- Monie, Matthew M., Glasgow, Scotland. Mud-gnard of motor-cycles, motor-cars, and the like. No. 1,293,861; Feb. 11; v. 259; p. 238.
- Monighan, John E., Fort Wayne, Ind. Fishing-signal. No. 1,309,365; July 8; v. 264; p. 279.
- Monihan, Daniel J., assignor to Griswold Manufacturing Company, Erie, Pa. Oven. No. 1,316,631; Sept. 23; v. 266; p. 470.
- Monismith, Laroy C., Glenvil, Nebr. Spark-plug. No. 1,305,924; June 3; v. 263; p. 131.
- Monismith, La Roy C., Glenvil, Nebr. Fire-shovel. No. 1,307,265; June 17; v. 263; p. 443.
- Monitor Controller Company. (See Whittingham, George H., assignor.)
- Monitor Controller Company. (See Whittingham and Holmes, assignors.)
- Monitor Stove Company, The. (See Doyle, William J., assignor.)
- Monk, Raymond W., Pittston, Pa. Car-door. No. 1,298,764; Apr. 1; v. 261; p. 35.
- Monk, Thomas H., Thomasville, Ga. Stump-puller. No. 1,298,372; Mar. 25; v. 260; p. 650.
- Monkhorst, Hermann G., Delft, Netherlands. Hollow handle for screw-dies, pipe-cutters, and similar tools. No. 1,323,898; Dec. 2; v. 269; p. 127.
- Monkhorst, Hermann G., Delft, Netherlands. Packing-machine. No. 1,324,166; Dec. 9; v. 269; p. 221.
- Monneuse, Edward W., West New Brighton, N. Y. Oil-cock opening and cleaning tool. No. 1,296,205; Mar. 4; v. 260; p. 89.
- Monrath, Gustav, Chuquicmatla, Chile, assignor to Chile Exploration Company, New York, N. Y. Apparatus for producing corrosion-resisting conduits. No. 1,292,010; Jan. 21; v. 258; p. 534.
- Monrath, Gustav, assignor to Chile Exploration Company, New York, N. Y. Lining pipe and pipe-fittings. No. 1,303,102; May 6; v. 262; p. 119.
- Monrath, Gustav. (See Rose and Monrath.)
- Monro, Edward H. (See McPherson and Monro.)
- Monro, William L., assignor to Window Glass Machine Company, Pitsburgh, Pa. Drawing hollow glass cylinders. No. 1,295,348; Feb. 25; v. 259; p. 640.
- Monroe, Albert M., Taft, Calif. Slip-socket. No. 1,306,497; June 10; v. 263; p. 270.
- Monroe Calculating Machine Company. (See Monroe, Jay R., assignor.)
- Monroe, Charles H., Beeler, Kans. Filter. No. 1,304,504; May 20; v. 262; p. 445.
- Monroe, Eva J., San Francisco, Cal. Resilient missile. No. 1,292,011; Jan. 21; v. 258; p. 534.
- Monroe, George B., assignor to J. A. Welch, Spokane, Wash. Hydrocarbon-burner. No. 1,295,349; Feb. 25; v. 259; p. 640.
- Monroe, Helen G., Riverside, Ill. Detachable fastener. No. 1,297,890; Mar. 18; v. 260; p. 523.
- Monroe, Jay R., assignor to Monroe Calculating Machine Company, New York, N. Y. Calculating-machine. No. 1,306,606; June 10; v. 263; p. 289.
- Monroe, Kenneth P., Washington, D. C. The extraction from corncobs of material suitable for use as adhesives and for other purposes. No. 1,317,530; Sept. 30; v. 266; p. 646.
- Monroe, Nathaniel S., Arthur, Ill. Drag. No. 1,291,594; Jan. 14; v. 258; p. 400.
- Monroe, William H., Portland, Oreg. Silo. No. 1,314,531; Sept. 2; v. 266; p. 10.
- Monroe, William H., Chicago, Ill. Window-sash lock. No. 1,316,379; Sept. 16; v. 266; p. 373.
- Monsen, Adolph, Chicago, Ill., assignor of one-half to N. Van Zandt, Logansport, Ind. Brake-adjusting device. No. 1,296,835; Mar. 11; v. 260; p. 265.
- Monsen, Adolph, Chicago, Ill., assignor of one-half to N. Van Zandt, Logansport, Ind. Torsion-rod for motor-vehicles. No. 1,307,137; June 17; v. 263; p. 420.
- Monsen, Adolph, assignor of one-half to N. Van Zandt, Logansport, Ind. Fuel-tank and means for supporting it. No. 1,307,138; June 17; v. 263; p. 420.
- Montague, Edgar J., Cortland, N. Y. Manifold for internal-combustion engines. No. 1,316,629; Sept. 23; v. 266; p. 469.
- Montague, Frank. (See Bythiner and Montague.)
- Montague, Harold E., assignor of one-half to E. A. Fritze, Philadelphia, Pa. Internal-combustion engine. No. 1,298,079; Mar. 25; v. 260; p. 588.
- Montague, Hubert H., Traverse City, Mich. Mowing-machine. No. 1,317,212; Sept. 30; v. 266; p. 614.
- Montalto, Vito, Allentown, Pa. Dish-washing machine. No. 1,298,544; Mar. 25; v. 260; p. 689.
- Montan, Adolf, West Orange, assignor to Eastern Tool & Mfg Company, Bloomfield, N. J. Tray or the like. No. 1,305,148; May 27; v. 262; p. 604.
- Montaruli, Giuseppe V., Rome, Italy. Construction of ships. No. 1,295,786; Feb. 25; v. 259; p. 742.
- Monte, Fred, Newark, N. J. Dish-washing machine. No. 1,312,414; Aug. 5; v. 265; p. 105.
- Montelcone, Ernest, Jersey City, N. J. Automobile-horn. No. 1,294,296; Feb. 11; v. 259; p. 339.
- Montelius, Carl O. J., Stockholm, Sweden. Method and apparatus for transforming electrical energy. No. 1,319,409; Oct. 21; v. 267; p. 420.
- Montero, Juan C., Washington, D. C. Projectile. No. 1,316,917; Sept. 23; v. 266; p. 522.
- Montgomery, Bishop, Castleberry, Ala. Fish-scaler. No. 1,294,140; Feb. 11; v. 259; p. 303.
- Montgomery, David T., Laurel, Nebr. Planter. No. 1,291,595; Jan. 14; v. 258; p. 400.
- Montgomery, De Forrest. (See Murphy, Timothy, assignor.)
- Montgomery, Earle T., Alfred, N. Y. Sanitary closet structure. No. 1,303,358; May 13; v. 262; p. 194.
- Montgomery, George W., Brandywine, Md. Gearing. No. 1,322,599; Nov. 25; v. 268; p. 589.
- Montgomery, Hiram W., Topanga, Calif. Vehicle. No. 1,300,185; Apr. 8; v. 261; p. 382.
- Montgomery, Hiram W., Topanga, Calif. Wheelbarrow. No. 1,300,186; Apr. 8; v. 261; p. 382.
- Montgomery, Horace B., Philadelphia, Pa. Stand for storage-battery accessories. No. 1,302,695; May 6; v. 262; p. 41.
- Montgomery, James H., Butte, Mont. Grease-dispensing apparatus. No. 1,306,607; June 10; v. 263; p. 290.
- Montgomery, John L., Boston, Mass. Reversible-shade-supporting bracket. No. 1,321,233; Nov. 11; v. 268; p. 229.
- Montgomery, Leon F., et al. (See Grosjean, James E., assignor.)
- Montgomery Ward & Co. (See Anderson, Carl O., assignor.)
- Montgomery Ward & Co. (See Weaver, Ira A., assignor.)
- Montiglio, Francesco, Chester, Pa. Pleasure-boat. No. 1,314,969; Sept. 2; v. 266; p. 91.
- Montreal Patents Promoting Co. Limited. (See L'heureux, Ludger, assignor.)
- Montucchiaro, Peter, Chicago Heights, Ill. Wheel-hub. No. 1,295,350; Feb. 25; v. 259; p. 641.
- Moody, Calvin D., Corpus Christi, Tex. Locomotive-head-light. No. 1,308,720; July 1; v. 264; p. 131.
- Moody, Jason B., Dalles, Tex. Check and the like. No. 1,291,077; Jan. 14; v. 258; p. 281.
- Moody, Jesse W., Somerville, Mass. Machine for sharpening saws. No. 1,323,085; Nov. 25; v. 268; p. 679.
- Moody, Joseph E., St. Francisville, Ill. Well-drilling appliance. No. 1,300,995; Apr. 15; v. 261; p. 580.
- Moody, Joseph F., Augusta, Kans. Well-drilling appliance. No. 1,322,809; Nov. 25; v. 268; p. 627.
- Moody, Lewis F., Philadelphia, Pa. Hydraulic draft-tube. No. 1,315,232; Sept. 9; v. 266; p. 149.



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- Moody, Lewis F., Philadelphia, Pa. Rotary hydraulic pump. No. 1,321,538; Nov. 11; v. 268; p. 286.
- Moody, Ray T., Keene, N. Y. Reversing mechanism for internal-combustion engines. No. 1,318,684; Oct. 14; v. 267; p. 256.
- Moody, Walter S., Pittsfield, Mass., assignor to General Electric Company. Method and means for the operation of electrical apparatus. No. 1,291,078; Jan. 14; v. 258; p. 281.
- Moomy, Joseph G., Erie, Pa. Patch fabric and making same. No. 1,325,798; Dec. 23; v. 269; p. 607.
- Moon, Arch, Eltopia, Wash. Spring-wheel. No. 1,316,499; Sept. 16; v. 266; p. 396.
- Moon Brothers Manufacturing Company. (See Drew, John W., assignor.)
- Moon Brothers Manufacturing Company, The. (See Snell, Samuel A., assignor.)
- Moon, George H., Dallas, Iowa. Parachute. No. 1,311,083; July 22; v. 264; p. 603.
- Moon-Hopkins Billing Machine Company. (See Thieme, Otto, assignor.)
- Moon, William F., Milwaukee, Wis. Speck-remover. No. 1,309,258; July 8; v. 264; p. 259.
- Moon, William F., Milwaukee, Wis. Yarn-speck remover. No. 1,325,528; Dec. 23; v. 269; p. 557.
- Mooney, Frank H., Hinsdale, Ill., assignor to The Conklyn Pen Manufacturing Company, Toledo, Ohio. Machine for making fountain-pen feed-bars. No. 1,303,940; May 20; v. 262; p. 338.
- Mooney, Joseph W., St. Louis, Mo. Calculating-dividers. No. 1,300,221; Apr. 8; v. 261; p. 390.
- Moonlight Bait Company, The. (See Wilber and Ball, assignors.)
- Moor, Edward N., Oakland, Calif. Supplementary high-speed spindle for engine-lathes. No. 1,311,454; July 29; v. 264; p. 765.
- Moor, Edward N., Oakland, Calif. Universal dividing attachment for lathes. No. 1,311,455; July 29; v. 264; p. 765.
- Moor, Edward N., Oakland, Calif. Indexing and dividing machine. No. 1,311,456; July 29; v. 264; p. 766.
- Moor, Edward N., Oakland, Calif. assignor to Combination Police Club and Extension Pistol Barrel Corporation. Extension pistol-barrel. No. 1,297,891; Mar. 18; v. 260; p. 523.
- Mooradian, Leon M., Brighton, Mass. Mechanical toy. No. 1,302,696; May 6; v. 262; p. 41.
- Moore, Albert F., New Madrid, Mo. Spool for pliers. No. 1,326,766; Dec. 30; v. 269; p. 825.
- Moore, Albert T., Columbus, Ohio. Fish-hook. No. 1,307,411; June 24; v. 263; p. 503.
- Moore, Alfred A., Endeavor, Wis. Ash-handling device. No. 1,309,905; July 15; v. 264; p. 416.
- Moore, Alonzo A., Winthrop, Mass. Swimming-machine. No. 1,299,000; Apr. 1; v. 261; p. 89.
- Moore, Benjamin S., Joilet, Ill., assignor to R. C. Penfield, New York, N. Y. Brick-conveyer. No. 1,303,359; May 13; v. 262; p. 194.
- Moore, Benton, and G. O. Stansbury, Kansas City, Mo. Screen-door fastening. No. 1,299,596; Apr. 8; v. 261; p. 251.
- Moore, Benton, Cherryvale, Kans., and G. O. Stansbury, Kansas City, Mo. Pumping-jack for oil-wells. No. 1,304,190; May 20; v. 262; p. 384.
- Moore, Benton, Cherryvale, Kans., and G. O. Stansbury, Kansas City, Mo. Pumping-jack. No. 1,310,365; July 15; v. 264; p. 499.
- Moore, Charles A., St. Paul, Minn. Heater-car. No. 1,290,635; Jan. 7; v. 258; p. 150.
- Moore, Charles A., St. Paul, Minn. Combined trap and seal. No. 1,290,636; Jan. 7; v. 258; p. 150.
- Moore, Charles A., St. Paul, Minn. Ventilating system for cars. No. 1,308,188; July 1; v. 264; p. 33.
- Moore, Charles A., Kinney, Minn. Sawing-machine. No. 1,307,304; June 17; v. 263; p. 450.
- Moore, Charles T., assignor to The Columbus Glass Company, Lancaster, Ohio. Capping-off device. No. 1,312,341; Aug. 5; v. 265; p. 90.
- Moore, Christian, Akron, Ohio. Shock-absorber. No. 1,316,500; Sept. 16; v. 266; p. 397.
- Moore, Clifton E., Spokane, Wash. Measuring and dispensing device. No. 1,299,001; Apr. 1; v. 261; p. 89.
- Moore, Daniel M., East Orange, N. J., assignor to General Electric Company. Gaseous-conduction lamp. No. 1,316,967; Sept. 23; v. 266; p. 531.
- Moore, Edgar M. (See Geer, Paul L., assignor.)
- Moore, Edward J., Cleveland, Ohio. Convertible core-oven. No. 1,301,075; Apr. 15; v. 261; p. 600.
- Moore, Edward Y., Cleveland, Ohio. Hoisting mechanism. No. 1,325,259; Dec. 16; v. 269; p. 490.
- Moore, Edwin E., assignor of one-half to M. De Maine, Middleport, Ohio. Trolley for electric railways. No. 1,306,608; June 10; v. 263; p. 290.
- Moore Electric Corporation. (See Moore, George W., assignor.)
- Moore, Elmer E., Martins Ferry, Ohio, assignor of one-half to W. F. Ryan, Pittsburgh, Pa. Curtain and shade holding bracket. No. 1,322,811; Nov. 25; v. 268; p. 628.
- Moore, Floyd J., and C. F. Mercer, Chicago, Ill. Means for producing hydrocarbon fuel suitable for use in internal-combustion engines. No. 1,304,349; May 20; v. 262; p. 415.
- Moore, Francis J., Minneapolis, Minn. Testing-plug. No. 1,324,261; Dec. 9; v. 269; p. 240.
- Moore, Frank R., Cuyahoga Falls, Ohio. Bench-clamp. No. 1,290,637; Jan. 7; v. 258; p. 151.
- Moore, Frederick W., New York, N. Y. Machine for ornamenting plush and similar materials. No. 1,294,516; Feb. 18; v. 259; p. 426.
- Moore, Frederick W., New York, N. Y. Floor, wall, or like covering. No. 1,304,083; May 20; v. 262; p. 364.
- Moore, Fredrick A., Towanda, Kans. Wrench. No. 1,303,709; May 13; v. 262; p. 258.
- Moore, George, Joplin, Mo. Filter. No. 1,296,685; Mar. 11; v. 260; p. 231.
- Moore, George, Joplin, Mo. Liquid-measuring apparatus. No. 1,308,855; July 8; v. 264; p. 183.
- Moore, George, Joplin, Mo. Filter and making same. No. 1,309,330; July 8; v. 264; p. 272.
- Moore, George, Erie, Pa. Vise. No. 1,314,351; Aug. 26; v. 265; p. 557.
- Moore, George A., Medford, Mass. Capstan-screw. No. 1,297,222; Mar. 11; v. 260; p. 352.
- Moore, George D. (See McCoy and Moore.)
- Moore, George T., Milwaukee, Wis., assignor of one-half to W. F. Hoffman, Chicago, Ill. Draft-rigging. No. 1,320,563; Nov. 4; v. 268; p. 39.
- Moore, George W., Chicago, Ill. Hair-drier. No. 1,304,589; May 27; v. 262; p. 500.
- Moore, George W., assignor to Moore Electric Corporation, Chicago, Ill. Massage-vibrator. No. 1,301,866; Apr. 29; v. 261; p. 819.
- Moore, Harlan, New York, N. Y. Bottle or jar closure device. No. 1,300,222; Apr. 8; v. 261; p. 390.
- Moore, Harlan, New York, N. Y. Garter-supporter. No. 1,308,097; July 1; v. 264; p. 17.
- Moore, Harry, Santa Barbara, Calif. Hinge. No. 1,324,262; Dec. 9; v. 269; p. 240.
- Moore, Harry G., Philadelphia, Pa. Roof for vehicle-bodies. No. 1,306,609; June 10; v. 263; p. 290.
- Moore, Harry S., Algonac, Mich. Hatch-cover. No. 1,295,561; Feb. 25; v. 259; p. 691.
- Moore, Henry N., assignor of one-third to E. C. Le Munyon and one-third to F. E. Eckhart, Los Angeles, Calif. Brake. No. 1,300,634; Apr. 15; v. 261; p. 503.
- Moore, Henry N., assignor to Tractor-Train Co., Los Angeles, Calif. Transmission mechanism. No. 1,320,635; Nov. 4; v. 268; p. 52.
- Moore, Hugh K. (See Hanson and Moore.)
- Moore, Hugh K., assignor to Brown Company, Berlin, N. H. Removing certain impurities from electrolytic cells. No. 1,309,214; July 8; v. 264; p. 250.
- Moore, Hugh K., Berlin, N. H., assignor to Brown Company, Portland, Me. Making ethyl alcohol from wood. No. 1,323,540; Dec. 2; v. 269; p. 60.
- Moore, Hugh K., Berlin, N. H., assignor to Brown Company, Portland, Me. Recovering valuable constituents from wood-pulp digester liquor. No. 1,324,920; Dec. 16; v. 269; p. 427.
- Moore, Hugh K., assignor to Brown Company, Berlin, N. H. Catalyst. No. 1,326,767; Dec. 30; v. 269; p. 825.
- Moore, Hugh K., and G. A. Richter, assignors to Brown Company, Berlin, N. H. Making carbon bisulfid. No. 1,312,800; Aug. 12; v. 265; p. 210.
- Moore, Hugh K., and G. A. Richter, assignors to Brown Company, Berlin, N. H. Method and apparatus for recovering sulfur dioxide. No. 1,315,189; Sept. 2; v. 266; p. 131.
- Moore, Hugh K., and J. T. Quinn, Berlin, N. H., assignors to Brown Company, Portland, Me. Process and apparatus for reclaiming waste products in the manufacture of wood-pulp. No. 1,326,414; Dec. 30; v. 269; p. 759.
- Moore, J. C. (See Moore, Rucker, assignor.)
- Moore, Jacob L., Muncie, assignor of one-half to J. F. Banta, Goshen, Ind. Bedstead. No. 1,318,222; Oct. 7; v. 267; p. 108.
- Moore, James L., assignor to The Kerr Turbine Company, Wellsville, N. Y. Turbine. No. 1,304,191; May 20; v. 262; p. 384.
- Moore, James L., assignor to The Kerr Turbine Company, Wellsville, N. Y. Turbine-bucket. No. 1,304,793; May 27; v. 262; p. 538.
- Moore, John B. (See Reynolds, Frank C., assignor.)
- Moore, John E., J. Black, Jr., J. C. Crosby, and J. Black, Walterboro, S. C. Torpedo-shield. No. 1,309,690; July 15; v. 264; p. 377.
- Moore, John J., South Charleston, Ohio. Tire-liner. No. 1,298,765; Apr. 1; v. 261; p. 35.
- Moore, John S., and W. C. Glass, Atlanta, Ga. Railway train-stop. No. 1,323,991; Dec. 2; v. 269; p. 145.
- Moore, John W. (See Mullen and Moore.)
- Moore, Joseph B., Beaumont, Tex. Dry closet. No. 1,309,742; July 15; v. 264; p. 386.
- Moore, Joseph R., Baltimore, Md. Wire-connector. No. 1,293,862; Feb. 11; v. 259; p. 238.
- Moore, Joseph W., Berwick, Pa. Clutch-pedal shifting means. No. 1,323,403; Dec. 2; v. 268; p. 34.
- Moore, Lavern E., Palo Alto, Calif. Folding ladder. No. 1,314,201; Aug. 26; v. 265; p. 528.



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- Moore, Lee R., Dallas, Tex. Cutting and stepping machine. No. 1,303,221; May 6; v. 262; p. 142.
- Moore, Lucian T., *et al.* (See Watkins, Joseph W., assignor.)
- Moore, Moses. (See Ingram, Walter L., assignor.)
- Moore, Nellie C., Virginia, Minn. Garment. No. 1,322,930; Nov. 25; v. 268; p. 650.
- Moore, Oscar L. (See Johnson, George C., assignor.)
- Moore, Oscar L. (See Lange, Henry, assignor.)
- Moore Patent Car Company. (See Elmer, James P., assignor.)
- Moore, Philip E., McHenry, Miss. Combined tie and joint. No. 1,300,290; Apr. 15; v. 261; p. 431.
- Moore, Ralph H., and J. T. Buzzo, Oakland, Calif. Automatic sluicing device for filters. No. 1,325,449; Dec. 16; v. 269; p. 524.
- Moore, Ralph W. E. (See Ladoff and Moore.)
- Moore, Richard S., Rockdale, Tex. Aerial conveyer. No. 1,314,202; Aug. 26; v. 265; p. 528.
- Moore, Robert A., Detroit, Mich. Photographic apparatus. No. 1,294,821; Feb. 18; v. 259; p. 497.
- Moore, Robert A., Detroit, Mich. Surface-coating apparatus. No. 1,306,830; June 17; v. 263; p. 363.
- Moore, Robert S., assignor to Gyro Motor Company, Washington, D. C. Rotary gas-engine. No. 1,293,508; Feb. 4; v. 259; p. 124.
- Moore, Robert S., assignor, by mesne assignments, to E. Berliner, Washington, D. C. Rotary-cylinder gas-engine. (Reissue.) No. 14,625; Apr. 1; v. 261; p. 181.
- Moore, Royal J., *et al.* (See Helderman, Charles F., assignor.)
- Moore, Rucker, Atlanta, Ga., assignor of one-half to J. C. Moore, Birmingham, Ala. Sanitary sputum can or bucket. No. 1,299,375; Apr. 1; v. 261; p. 172.
- Moore, Samuel S., Brooklyn, N. Y. Picture-frame. No. 1,323,086; Nov. 25; v. 268; p. 679.
- Moore, Stuart B., Algiers, La. Concrete building. No. 1,305,230; May 27; v. 262; p. 620.
- Moore, Thomas F., Westfield, N. J. Trenching apparatus. No. 1,305,396; June 3; v. 263; p. 31.
- Moore, Victor W., Athens, Ga. Prying device. No. 1,310,538; July 22; v. 264; p. 562.
- Moore, Virginia, Bala, Pa. Sewing accessory. No. 1,322,931; Nov. 25; v. 268; p. 650.
- Moore, Walter W., *et al.* (See Anderberg, Thomas E., assignor.)
- Moore, William, Bremerton, Wash. Oil-burner. No. 1,321,321; Nov. 11; v. 268; p. 246.
- Moore, William E., Pittsburgh, Pa. Electric metallurgical furnace. No. 1,293,164; Feb. 4; v. 259; p. 44.
- Moore, William E., Pittsburgh, Pa. Electric furnace. No. 1,304,350; May 20; v. 262; p. 415.
- Moore, William E., Pittsburgh, Pa. Furnace-charging apparatus. No. 1,304,351; May 20; v. 262; p. 415.
- Moore, William E., Pittsburgh, Pa. Electric furnace and operating same. No. 1,309,045; July 8; v. 264; p. 220.
- Moore, William E., assignor to Pittsburgh Engineering Works, Pittsburgh, Pa. Arc-type electric furnace and operating same. No. 1,326,083; Dec. 23; v. 269; p. 660.
- Moore, William J., Washington, D. C., assignor of one-half to J. Malony, Philadelphia, Pa. Folding commode-stool. No. 1,293,509; Feb. 4; v. 259; p. 125.
- Moore, William J., Plainfield, N. J., assignor to C. N. Thorn, A. M. Watkins, W. E. Bewley, and W. J. Moore. Self-propelled floor-planer. No. 1,305,734; June 3; v. 263; p. 95.
- Moore, William J. P., New York, N. Y. Making tension-wheels. No. 1,310,246; July 15; v. 264; p. 478.
- Moore, William R. (See Ureck, Harry, assignor.)
- Moore, William W. (See Cobb and Moore.)
- Moorehead, George F., assignor of one-half to A. C. Wright, Des Moines, Iowa. Refrigerator show-case. No. 1,309,151; July 8; v. 264; p. 239.
- Moorehead, John A., Seward, N. J. Method of and apparatus for bright-annealing copper and brass tubes. No. 1,292,352; Jan. 21; v. 258; p. 616.
- Moorehous, Byron E., assignor of one-half to J. Meis, Cincinnati, Ohio. Frame. No. 1,315,196; Sept. 2; v. 266; p. 132.
- Moorshead, Alfred L., Arlington, N. J. Freight-car-heating system. No. 1,318,457; Oct. 14; v. 267; p. 213.
- Moore, Edward R., Albany, N. Y. Safety locking device for vehicles. No. 1,293,510; Feb. 4; v. 259; p. 125.
- Moose Mountain. (See Jordan, Fred A., assignor.)
- Muoser-Schiess, Werner, Bern-Liebfeld, Switzerland. Plastic material and making same. No. 1,317,721; Oct. 7; v. 267; p. 12.
- Moquist, Peter, Minneapolis, Minn. Furnace. No. 1,296,306; Mar. 4; v. 260; p. 111.
- Moquist, Peter, Minneapolis, Minn. Attachment for garden and lawn rakes. No. 1,318,577; Oct. 14; v. 267; p. 236.
- Morack, Louis. (See Herbst and Morack.)
- Morack, Louis. (See Herbst, Robert L., assignor.)
- Morali, Ricciotti, assignor to Società Anonima Italiana for steam-boilers. No. 1,296,206; Mar. 4; v. 260; p. 90.
- Moran, Arthur P., Canton, Mont. Device for pulling automobiles out of mudholes. No. 1,312,079; Aug. 5; v. 265; p. 42.
- Moran, Bernard H., Camden, N. J. Timekeeping device. No. 1,315,321; Sept. 9; v. 266; p. 165.
- Moran, Frank B., Dallas, Tex. Faucet. No. 1,313,105; Aug. 12; v. 265; p. 271.
- Moran, Frank P., Cincinnati, Ohio. Valve. No. 1,319,787; Oct. 28; v. 267; p. 515.
- Moran, Hugh M., *et al.* (See Thornton, John A., assignor.)
- Moran, John F., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,306,074; June 10; v. 263; p. 189.
- Moran, John J., Cleveland, Ohio. Building-block. No. 1,290,287; Jan. 7; v. 258; p. 66.
- Moran, Stewart B., *et al.* (See Thornton, John A., assignor.)
- Moran, Thomas P., Niagara Falls, N. Y. Brake mechanism for rolling ladders. No. 1,315,146; Sept. 2; v. 266; p. 122.
- Moran, Thomas W., Birmingham, Ala., assignor of one-fourth to E. S. Curtin. Advertising display apparatus. No. 1,296,307; Mar. 4; v. 260; p. 112.
- Morand Bros-Martin Cushion Wheel Co. (See Martin, William C., assignor.)
- Morano, Sam, Wendel, W. Va. Rail adjusting and gaging device. No. 1,290,288; Jan. 7; v. 258; p. 67.
- Morano, Sam, Wendel, W. Va. Metallic railway-tie and rail-fastener. No. 1,292,847; Jan. 28; v. 258; p. 755.
- Morava, Wensel, Chicago, Ill. Electric riveter. No. 1,321,136; Nov. 11; v. 268; p. 210.
- Moray, Archie F., Cedars, Quebec, Canada, assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator. No. 1,303,360; May 13; v. 262; p. 194.
- Morden, Charles W., Portland, Oreg. Consecutive-sheet package of reversely-folded material. No. 1,307,139; June 17; v. 263; p. 420.
- Morden Frog & Crossing Works. (See Gibbs, Benedict T., Jr., assignor.)
- Morden, George B., Seattle, Wash. Automobile-heater. No. 1,295,562; Feb. 25; v. 259; p. 691.
- More, Thomas. (See Lane and More.)
- Moreau, Jean A., Paris, France. Spark-plug. No. 1,306,271; June 10; v. 263; p. 229.
- Moreell, Samuel, Chicago, Ill. Bascule-bridge. No. 1,311,284; July 29; v. 264; p. 733.
- Morehouse, Cyrus E., Milwaukee, Wis. Hose-supporter. No. 1,309,691; July 15; v. 264; p. 377.
- Morehouse, Merritt J., Evanston, Ill. Ventilator. No. 1,309,867; July 15; v. 264; p. 409.
- Morehouse, William H., Pasadena, Calif., assignor to S. Slade and M. S. Marsh, Chicago, Ill. Headlight-lens. No. 1,311,570; July 29; v. 264; p. 787.
- Morel, Joseph L., Fayetteville, N. Y. Mirror for closed automobiles. No. 1,322,717; Nov. 25; v. 268; p. 610.
- Moreland, Watt L., Los Angeles, Calif. Heater for manifold-intakes. No. 1,309,539; July 8; v. 264; p. 311.
- Moren, Swan E., Biwabik, Minn. Briquet-machine. No. 1,306,309; June 10; v. 263; p. 235.
- Moreton Accessories Company. (See Moreton, Henry H., assignor.)
- Moreton, Henry H., Stony Point, N. Y., assignor to Moreton Accessories Company. Manifold for internal-combustion engines. No. 1,314,091; Aug. 26; v. 265; p. 507.
- Moreton, Henry H., Stony Point, N. Y., assignor to Moreton Company. Vehicle-wheel. No. 1,314,092; Aug. 26; v. 265; p. 507.
- Morey, Douglas. (See Fee and Morey.)
- Morey, Harry J., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Electric fixture-switch. No. 1,295,563; Feb. 25; v. 259; p. 691.
- Morey, Harry J., and D. N. Thompson, Syracuse, assignors to Pass & Seymour, Inc., Solvay, N. Y. Pull-socket. No. 1,319,963; Oct. 28; v. 267; p. 548.
- Morey, William E., Chicago, Ill., assignor to Rodger Ballast Car Company. Convertible freight-car. No. 1,311,906; Aug. 5; v. 265; p. 11.
- Morgan, Alonzo W., Perry, Iowa. Folding clothes-basket. No. 1,310,669; July 22; v. 264; p. 587.
- Morgan, Augustus R., Faribault, Minn. Air-valve protector for radiators. No. 1,326,768; Dec. 30; v. 269; p. 826.
- Morgan, Bernard, Keene, N. H. Cutting-die and making the same. No. 1,315,030; Sept. 2; v. 266; p. 102.
- Morgan, Carl F., Joliet, Mont. Wrench. No. 1,325,407; Dec. 16; v. 269; p. 517.
- Morgan, Charles, assignor to Arcade Manufacturing Company, Freeport, Ill. Grinding-mill. No. 1,306,610; June 10; v. 263; p. 290.
- Morgan, Charles E., Rincon, N. Mex. Cable-climbing device for miners. No. 1,311,084; July 22; v. 264; p. 663.
- Morgan, Charles E., Chicago, Ill. Air-heater for furnaces. No. 1,311,611; July 29; v. 264; p. 794.
- Morgan, Charles H., Hillside, N. J. Display-fixture. No. 1,303,361; May 13; v. 262; p. 194.
- Morgan, Charles N., Hildreth, Nebr. Automatic oiling device for vehicle-wheels. No. 1,297,717; Mar. 18; v. 260; p. 486.
- Morgan, Charles W., assignor to Gasoline Turbine Motor Company, Racine, Wis. Rotary gas-engine. No. 1,309,767; July 15; v. 264; p. 391.



## Alphabetical list of patentees—Continued.

- Morgan Construction Company. (See Carroll, Elbert H., assignor.)
- Morgan Construction Company. (See Edwards, Victor E., assignor.)
- Morgan Construction Company. (See George, Jerome R., assignor.)
- Morgan Construction Company. (See Hawthorne, Charles W., assignor.)
- Morgan Construction Company. (See Lummis, Charles W., assignor.)
- Morgan Crucible Company, The. (See Knight and Wilson, assignors.)
- Morgan, David, Launceston, Tasmania, Australia. Apparatus for exhausting and compressing air. No. 1,308,603; July 1; v. 264; p. 109.
- Morgan, David G. (See Francis and Morgan.)
- Morgan, E. L. (See Cornish, Guy S., assignor.)
- Morgan, E. W., et al. (See Johns, Paul H., assignor.)
- Morgan, Edmund C., Chicago, Ill. Apparatus for mining. No. 1,304,352; May 20; v. 262; p. 415.
- Morgan, Edmund C., Chicago, Ill. Mining-machine. No. 1,314,011; Aug. 26; v. 265; p. 492.
- Morgan, Edmund C., Chicago, Ill. Cutter-chain for mining-machines. No. 1,325,028; Dec. 16; v. 269; p. 446.
- Morgan, Edmund C., Chicago, Ill. Cutting-chain for mining-machines. No. 1,325,029; Dec. 16; v. 269; p. 447.
- Morgan, Edmund C., Chicago, Ill. Cutting-chain for mining-machines. No. 1,325,030; Dec. 16; v. 269; p. 447.
- Morgan, Edmund C., Chicago, Ill. Mining-machine. No. 1,325,031; Dec. 16; v. 269; p. 447.
- Morgan, Edmund C., Chicago, Ill., assignor to American Morgan Company, Pierre, S. D. Apparatus for loading coal. No. 1,304,084; May 20; v. 262; p. 364.
- Morgan, Edward E. (See Dawson and Morgan.)
- Morgan Engineering Company, The. (See Haiss, Hugo, assignor.)
- Morgan Engineering Company, The. (See Hively and Kloos, assignors.)
- Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
- Morgan, Evor P., San Pedro, Calif. Dry washer. No. 1,319,165; Oct. 21; v. 267; p. 375.
- Morgan, Francis L., Oids, Iowa. Aerial bomb. No. 1,322,495; Nov. 18; v. 268; p. 518.
- Morgan, Francis L., Oids, Iowa. Automatic nest. No. 1,324,612; Dec. 9; v. 269; p. 308.
- Morgan, Francis M., San Francisco, Calif. Facial-contour restorer. No. 1,321,137; Nov. 11; v. 268; p. 210.
- Morgan Gardner Electric Company. (See Noble, Ralph E., assignor.)
- Morgan, Harold R., Kalona, Iowa. Tire-holder. No. 1,315,147; Sept. 2; v. 266; p. 123.
- Morgan, James J. (See Rush and Morgan.)
- Morgan, Jerome J., Maplewood, and L. H. Baker, Mountain Lakes, N. J. Supporting-clamp for burettes, other tubes, and rods. No. 1,318,899; Oct. 14; v. 267; p. 298.
- Morgan, John D., Summit, N. J. Type-casting machine. No. 1,293,511; Feb. 4; v. 259; p. 125.
- Morgan, John D., New York, N. Y. Apparatus for the production of cyanogen compounds. No. 1,309,650; July 15; v. 264; p. 369.
- Morgan, John T., Charleston, W. Va. Hanger for conductor-wires. No. 1,325,899; Dec. 23; v. 269; p. 626.
- Morgan, Lytleton F., New York, N. Y. Key. No. 1,295,351; Feb. 25; v. 259; p. 641.
- Morgan, Ralph L., Worcester, Mass. Body for trucks. No. 1,298,766; Apr. 1; v. 261; p. 35.
- Morgan, Ralph L., Worcester, Mass. Demountable rim for vehicle-tires. No. 1,299,205; Apr. 1; v. 261; p. 134.
- Morgan, Ralph L., Worcester, Mass. Rim for motor-car wheels. No. 1,304,794; May 27; v. 262; p. 538.
- Morgan, Richard S., Edwardsville, Pa. Hammock-hook. No. 1,322,328; Nov. 18; v. 268; p. 485.
- Morgan, Roscoe F., Kiefer, Okla. Wrench mechanism. No. 1,324,405; Dec. 9; v. 269; p. 268.
- Morgan, Roy, St. Louis, Mo. Machine for making sheet-glue. No. 1,311,571; July 29; v. 264; p. 787.
- Morgan, Thomas J., Camp Kearny, Calif. Hoisting apparatus. No. 1,319,964; Oct. 28; v. 267; p. 548.
- Morgan, W. T., Sr., administrator. (See Ashmore and Morgan.)
- Morgan, William, Los Angeles, Cal. Electric flat-iron. No. 1,290,289; Jan. 7; v. 258; p. 87.
- Morgan, William F., Chicago, Ill. Oil cooling system for explosive-engines. No. 1,290,638; Jan. 7; v. 258; p. 151.
- Morgan, William H., Alliance, Ohio. Forging, flanging, and other press. No. 1,295,189; Feb. 25; v. 259; p. 604.
- Morgan, William T., Jr. (See Ashmore and Morgan.)
- Morgan, William W., Philadelphia, Pa. Thermostatic valve. No. 1,308,856; July 8; v. 264; p. 183.
- Morgan & Wright. (See Cederstrom and Mulloy, assignors.)
- Morgan & Wright. (See Hoyt, Homer J., assignor.) (Reissue.)
- Morgan & Wright. (See McNeill, George, assignor.)
- Morgan & Wright. (See Midgley, Thomas, assignor.)
- Morgan & Wright. (See Neal, De Courcy, assignor.)
- Morgan & Wright. (See Steidle, William J., assignor.)
- Morgan & Wright. (See Stowe, Benjamin L., assignor.)
- Morgan & Wright. (See Welton and Hoyt, assignors.)
- Morgans, Floyd W., Middletown, N. Y. Printer's furniture. No. 1,307,140; June 17; v. 263; p. 420.
- Morganthaler, Peter C., Port Wayne, Ind., assignor to General Electric Company. Propayment device. No. 1,315,786; Sept. 9; v. 266; p. 248.
- Morgenstern, Nathan, Brooklyn, N. Y. Animal toy. No. 1,310,205; July 15; v. 264; p. 470.
- Mori, Iguma Nishinari-Gun, Osaka-Fu, Japan. Razor. No. 1,310,086; July 15; v. 264; p. 448.
- Mori, Placido, New York, N. Y. Float and making the same. No. 1,299,851; Apr. 8; v. 261; p. 310.
- Moriarty, Daniel, Oakland, Calif. Vehicle-wheel. No. 1,312,415; Aug. 5; v. 265; p. 105.
- Moriarty, Daniel F., South Meriden, Conn. Lamp-cord-adjusting clamp. No. 1,321,660; Nov. 11; v. 268; p. 309.
- Moriarty, Ernest C., U. S. Army. Fluid recoil-brake for guns. No. 1,309,989; July 15; v. 264; p. 432.
- Moriehard, Jean H. A., Amsterdam, Netherlands. Indicating apparatus for charts, maps, and plans. No. 1,309,259; July 8; v. 264; p. 259.
- Morin, Albert, Asnières, France. Construction of lightweight engines. No. 1,314,352; Aug. 26; v. 265; p. 557.
- Morin, Alfred C., Paris, France. Making metal wheels. No. 1,313,322; Aug. 19; v. 265; p. 328.
- Morin, Edward J., Wynot, Nebr. Pocket pencil-holder. No. 1,323,607; Dec. 2; v. 269; p. 72.
- Morin, George G., Holyoke, Mass. Rear automobile-signal. No. 1,290,639; Jan. 7; v. 258; p. 151.
- Morin, Leonidas, Manchester, N. H. Stop-motion for knitting-machines. No. 1,323,087; Nov. 25; v. 268; p. 679.
- Morinsky, Louis, New York, N. Y. Buttonhole-strip. No. 1,323,541; Dec. 2; v. 269; p. 60.
- Morio, George W., Jr., New York, N. Y. Umbrella-stand. No. 1,290,290; Jan. 7; v. 258; p. 67.
- Morisak, John, Akron, Ohio. Fly-trap. No. 1,308,439; July 1; v. 264; p. 78.
- Morison, Donald B., Hartlepool, England. Apparatus for filtering liquids. No. 1,312,041; Aug. 5; v. 265; p. 36.
- Morison, Donald B., Hartlepool, England. Apparatus for heating boiler feed-water. No. 1,313,199; Aug. 12; v. 265; p. 289.
- Morison, George S., Melbourne, Victoria, Australia. Automatically-adjusting speed or revolution change gear. No. 1,291,654; Jan. 14; v. 258; p. 415.
- Mork, Harry S., Brookline, Mass., assignor, by mesne assignments, to American La France Fire Engine Company, Inc., Elmira, N. Y. Fire-extinguishing composition. No. 1,306,707; June 17; v. 263; p. 342.
- Mork, Harry S., Brookline, Mass., assignor, by mesne assignments, to American La France Fire Engine Company, Inc., Elmira, N. Y. Fire-extinguisher composition. No. 1,306,708; June 17; v. 263; p. 342.
- Mork, Harry S., Brookline, Mass., assignor, by mesne assignments, to American La France Fire Engine Company, Inc., Elmira, N. Y. Fire-extinguisher composition. No. 1,306,709; June 17; v. 263; p. 342.
- Morkrum Company. (See Krum, Charles L. and H. L., assignors.)
- Morley, M. L. (See Hogan, Harvey, assignor.)
- Morral, Samuel E. and W. W., Morral, Ohio. Corn-husking machine. No. 1,314,353; Aug. 26; v. 265; p. 558.
- Morral, William W. (See Morral, Samuel E. and W. W.)
- Morreale, Charles, and J. Lamberti, Scranton, Pa. Locomotive sand-pipe. No. 1,292,353; Jan. 21; v. 258; p. 616.
- Morrey, Edward, Haskell, N. J. Harness-girth. No. 1,303,941; May 20; v. 262; p. 339.
- Morrick, Robert W., and E. H. Drews, Madison, Wis. Steering apparatus. No. 1,308,504; July 1; v. 264; p. 90.
- Morrill, Alfred R., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing welting. No. 1,309,583; July 8; v. 264; p. 320.
- Morrill, Dana, deceased, South Omaha, E. J. Morrill, administratrix, Omaha, assignor to Morrill Target Company, Omaha, Nebr. Target-making machine. No. 1,300,996; Apr. 15; v. 261; p. 580.
- Morrill, Emma J., administratrix. (See Morrill, Dana.)
- Morrill, Herbert B., Salem, Mass. Pressure-relief apparatus. No. 1,290,291; Jan. 7; v. 258; p. 87.
- Morrill, Manley G., Brattleboro, Vt., assignor to The Stafford Company, Readville, Boston, Mass. Yarn-winder. No. 1,322,812; Nov. 25; v. 268; p. 628.
- Morrill Target Company. (See Morrill, Dana, assignor.)
- Morrill, William C., New York, N. Y. Soap-dispenser. No. 1,292,848; Jan. 28; v. 258; p. 755.
- Morris, Alexander C., Clarkson, Wash. Post-support. No. 1,292,012; Jan. 21; v. 258; p. 534.
- Morris, Alfred D., assignor to Morris Metallic Packing Company, Philadelphia, Pa. Metallic packing for piston and other rods. No. 1,309,075; July 8; v. 264; p. 225.
- Morris, Alice C., Covington, Ky. Headache-bandage. No. 1,324,975; Dec. 16; v. 269; p. 437.



- Morris Automatic Scale Company, The. (See Allen, Charles H., assignor.)
- Morris, Benjamin F. C., Oklahoma, Okla. Animal-poke. No. 1,314,532; Sept. 2; v. 266; p. 10.
- Morris Cash and Credit Register Company. (See Morris and Larimore, assignors.)
- Morris, Charles E., Leavenworth, Kans. Automobile-operated mechanism. No. 1,301,294; Apr. 22; v. 261; p. 679.
- Morris, Charles E., assignor to C. W. Parker, Leavenworth, Kans. Power mechanism for merry-go-rounds. No. 1,315,980; Sept. 16; v. 266; p. 299.
- Morris, Charles E., assignor of one-half to C. W. Parker, Leavenworth, Kans. Motor-operated vehicle. No. 1,320,336; Oct. 28; v. 267; p. 617.
- Morris, Charles E., assignor to C. W. Parker, Leavenworth, Kans. Centrifugal gun. No. 1,320,779; Nov. 4; v. 268; p. 79.
- Morris, Charles E., assignor to C. W. Parker, Leavenworth, Kans. Time-controlled power mechanism. No. 1,320,780; Nov. 4; v. 268; p. 79.
- Morris, Charles E., assignor of one-half to C. W. Parker, Leavenworth, Kans. Magnetic gun. No. 1,324,204; Dec. 9; v. 269; p. 229.
- Morris, Charles O., Indianapolis, Ind. Means for and method of building concrete boats. No. 1,311,612; July 29; v. 264; p. 795.
- Morris, Charles W., Toledo, Ohio. Snow-plow. No. 1,307,410; June 24; v. 263; p. 502.
- Morris & Company. (See Bliss and Neubeck, assignors.)
- Morris, Elzy V., assignor to James H. Channon Mfg. Co., Chicago, Ill. Trimming device for scenery and the like. No. 1,296,422; Mar. 4; v. 260; p. 136.
- Morris, Emanuel S., St. Louis, Mo. Spring-tire. No. 1,322,258; Nov. 18; v. 268; p. 472.
- Morris, George. (See Lutz, Herbert, assignor.)
- Morris, George W., Racine, Wis. Indicator for oil-pumps. No. 1,300,291; Apr. 15; v. 261; p. 431.
- Morris, George W., Racine, Wis. Lubricant-indicator. No. 1,325,032; Dec. 16; v. 269; p. 447.
- Morris, Harold B., Glendale, Calif. Making materials for covering furniture. No. 1,306,310; June 10; v. 263; p. 235.
- Morris, Herbert D., Chadds Ford, Pa. Battery. No. 1,291,596; Jan. 14; v. 258; p. 400.
- Morris, Howard I. (See Savage and Morris.)
- Morris, Howard I., San Diego, Calif. Tire-handling machine. No. 1,318,685; Oct. 14; v. 267; p. 257.
- Morris, Howard I., assignor to The Savage Tire Company, San Diego, Calif. Drive-control means. No. 1,322,041; Nov. 18; v. 268; p. 431.
- Morris, Hurd T. (See Hellmund and Morris.)
- Morris, Hurd T. (See Simmon and Morris.) (Reissue.)
- Morris, Hurd T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,302,068; Apr. 29; v. 261; p. 858.
- Morris, Hurd T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,305,149; May 27; v. 262; p. 604.
- Morris, James M., Salt Lake City, Utah. Car-replacer. No. 1,294,297; Feb. 11; v. 259; p. 339.
- Morris, John M., Mayfair, assignor of two-thirds to Tredgears Limited, London, England. Construction of gas-generating apparatus. No. 1,302,199; Apr. 29; v. 261; p. 882.
- Morris, John O., Ruth, Nev. Clip. No. 1,322,461; Nov. 18; v. 268; p. 511.
- Morris, John O., Washington, D. C., assignor to Acme Stripping and Booking Machine Co., New York, N. Y. Tobacco-machine. No. 1,316,054; Sept. 16; v. 266; p. 312.
- Morris, Jolly L. (See Herman and Morris.)
- Morris, Joshua L., Chicago, Ill. Sales-register. No. 1,316,103; Sept. 16; v. 266; p. 321.
- Morris, Joshua L., and A. W. Larimore, Council Bluffs, Iowa; said Morris assignor to Morris Cash and Credit Register Company, Omaha, Nebr. Cash-register. No. 1,292,354; Jan. 21; v. 258; p. 617.
- Morris, Mabel M., assignor of one-third to L. E. L. Sutcliffe, Spokane, Wash. Rolling-pin. No. 1,325,260; Dec. 16; v. 269; p. 490.
- Morris, Matthew, assignor to The Norwich Woolen Mills Company, Norwich, Conn. Measuring device. No. 1,308,295; July 1; v. 264; p. 53.
- Morris, Melton, Henegar, Ala. Thrust-bearing. No. 1,307,509; June 24; v. 263; p. 521.
- Morris Metallic Packing Company. (See Morris, Alfred D., assignor.)
- Morris, Patrick P., Butte, Mont. Circuit-closer for signal devices. No. 1,307,100; June 17; v. 263; p. 413.
- Morris, Pratt C., assignor of one-half to C. W. Cooper, Thomasville, Ga. Self-steering and reinforcing device for automobiles and the like. No. 1,305,923; June 3; v. 263; p. 131.
- Morris, Pratt C., assignor of one-half to C. W. Cooper, Thomasville, Ga. Automatic safety-spring and ball-valve cock. No. 1,317,885; Oct. 7; v. 267; p. 43.
- Morris, Saul. (See Purcell, Thomas C., assignor.)
- Morris, Theodore H., and F. T. Grubbe, Gary, Ind. Shade-holder. No. 1,299,003; Apr. 1; v. 261; p. 89.
- Morris, Thomas F., Waterford, N. Y., assignor to The Singer Manufacturing Company. Trimmer for sewing machines. No. 1,319,668; Oct. 21; v. 267; p. 470.
- Morris, Thomas J., Springfield, Mass. Pipe-hanger. No. 1,291,079; Jan. 14; v. 258; p. 281.
- Morris, Thomas J., Springfield, Mass. Sectional support. No. 1,312,861; Aug. 12; v. 265; p. 222.
- Morris, William L., Chicago, Ill. Oil-clearifying system and apparatus. No. 1,305,735; June 3; v. 263; p. 96.
- Morrison, Andrew W., St. Louis, Mo. Appliance for sealing car-doors. No. 1,320,164; Oct. 28; v. 267; p. 585.
- Morrison, Cary A., Delaware, Ohio. Elastic non-inflatable tire. No. 1,313,007; Aug. 12; v. 265; p. 251.
- Morrison, Cary A., Delaware, Ohio. Elastic non-inflatable tire. No. 1,316,501; Sept. 16; v. 266; p. 397.
- Morrison, Egbert R., Sharon, Pa. Steam-boiler. No. 1,304,998; May 27; v. 262; p. 576.
- Morrison, Harley J., assignor, by mesne assignments, to The Hydrogenation Company, Cincinnati, Ohio. Production of catalytic material and the saturation of fatty acids or their glycerids with hydrogen. No. 1,299,004; Apr. 1; v. 261; p. 89.
- Morrison, James S., Flint, Mich. Wrench. No. 1,308,440; July 1; v. 264; p. 78.
- Morrison, John, Jr., Glens Falls, N. Y. Shoe-brush set. No. 1,307,060; June 17; v. 263; p. 406.
- Morrison, John, Jr., Glens Falls, N. Y. Mechanism for handling bristles. No. 1,319,104; Oct. 21; v. 267; p. 362.
- Morrison, John C., Spokane, Wash. Pistol. No. 1,290,292; Jan. 7; v. 258; p. 67.
- Morrison, John E., Memphis, Tenn. Bale-tie buckle. No. 1,314,970; Sept. 2; v. 266; p. 91.
- Morrison, Samuel S., Roseburg, Oreg. Holster. No. 1,322,198; Nov. 18; v. 268; p. 460.
- Morrison, Vaughn E., assignor of one-half to C. F. Beckwith, Detroit, Mich. Fuel-economizer. No. 1,319,166; Oct. 21; v. 267; p. 375.
- Morrison, Walter L. (See Bleecker and Morrison.)
- Morrison, William, Chicago, Ill. Negative plate for lead storage batteries. No. 1,304,192; May 20; v. 262; p. 384.
- Morrison, William D., Denver, Colo. Wrench. No. 1,306,553; June 10; v. 263; p. 280.
- Morrison, William N., St. Louis, Mo. Key-ring hook. No. 1,295,190; Feb. 25; v. 259; p. 604.
- Morrison, John D., Lakewood, Ohio, assignor to The Mechanical Rubber Company. Recovering rubber solvent. No. 1,312,452; Aug. 5; v. 265; p. 113.
- Morrow, Alexander H., Pittsburgh, Pa. Heater or boiler. No. 1,312,801; Aug. 12; v. 265; p. 210.
- Morrow, James X. F., Mount Vernon, N. Y. Non-refillable bottle. No. 1,310,366; July 15; v. 264; p. 499.
- Morrow, Melmuth L., Knoxville, Tenn. Railway-switch. No. 1,302,407; Apr. 29; v. 261; p. 922.
- Morse, Arthur C., Almond, Wis. Potato-grader. No. 1,321,661; Nov. 11; v. 268; p. 309.
- Morse, Clyde H., Williamstown, Vt. Rear lamp for automobiles. No. 1,291,080; Jan. 14; v. 258; p. 282.
- Morse, Clyde S., assignor of one-half to S. S. Morse, De Kalb, Ill. Resilient tire. No. 1,322,259; Nov. 18; v. 268; p. 472.
- Morse, Fanny C., New York, N. Y. Hip-brassiere attachment for corsets. No. 1,319,604; Oct. 21; v. 267; p. 458.
- Morse, Frank L., Ithaca, N. Y. Lawn-sprinkler. No. 1,307,634; June 24; v. 263; p. 543.
- Morse, Frank L., Ithaca, N. Y. Valve mechanism for gas-engines. No. 1,309,906; July 15; v. 264; p. 416.
- Morse, Frank L., Ithaca, N. Y. Punching-press. No. 1,309,907; July 15; v. 264; p. 417.
- Morse, Irving H., New Orleans, La. Apparatus for separating impurities from cane-juice or other liquids. No. 1,311,831; July 29; v. 264; p. 835.
- Morse, Milton W., Mount Vernon, N. Y. Lamp-socket. No. 1,301,152; Apr. 22; v. 261; p. 650.
- Morse, Robert V., Ithaca, N. Y. Sight-controlling linkage for anti-aircraft guns. No. 1,306,611; June 10; v. 263; p. 290.
- Morse, Robert V., Ithaca, N. Y. Bending bomb. No. 1,325,486; Dec. 16; v. 269; p. 531.
- Morse, Robert V., Ithaca, N. Y. Bending mine. No. 1,325,487; Dec. 16; v. 269; p. 531.
- Morse, Stella S. (See Morse, Clyde S., assignor.)
- Morse, Theodore F., assignor to Huntley Manufacturing Co., Silver Creek, N. Y. Coffee-stoning apparatus. No. 1,323,306; Dec. 2; v. 269; p. 16.
- Morse, Thomas, Bexley, near Sydney, New South Wales, Australia. Luggage-carrier. No. 1,312,562; Aug. 12; v. 265; p. 164.
- Morse, Thomas R., Bexley, near Sydney, New South Wales, Australia. Internal expansion-brake. No. 1,292,849; Jan. 28; v. 258; p. 755.
- Morse, Walter R., Waterbury, Conn., assignor to The Shoe Hardware Company. Buckle. No. 1,316,632; Sept. 23; v. 266; p. 470.
- Morse, Williston L., Pawnee City, Nebr. Incubator egg-tray. No. 1,291,081; Jan. 14; v. 258; p. 282.
- Morsk Hydro-Elektrisk Kvaelfabrikationskab. (See Ingeberg, Henry C. M., assignor.)
- Morski, Thomas, Manistee, Mich., assignor to American Motor Spring Patents Company. Shock-absorber and suspension for vehicles. No. 1,290,293; Jan. 7; v. 258; p. 68.
- Morsman, Herman A. (See Haymond, Wirt L., assignor.)



## Alphabetical list of patentees—Continued.

- Mort, Arthur, Lincoln, England. Drop-hammer. No. 1,309,298; July 8; v. 264; p. 266.
- Mortensen, Cornelius, Louisville, Ky. Emulser. No. 1,308,250; July 1; v. 264; p. 44.
- Mortensen, Frantz, Copenhagen, Denmark. Cream-separator with hanging bowl. No. 1,316,849; Sept. 23; v. 266; p. 510.
- Mortensen, Niels L. (See Stevens and Mortensen.)
- Mortensen, Niels L., Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor control. No. 1,309,866; July 8; v. 264; p. 279.
- Mortensen, Niels L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,320,564; Nov. 4; v. 268; p. 39.
- Mortensen, Niels L., Milwaukee, Wis., and W. F. Lent, New York, N. Y., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Power-operated switch. No. 1,318,099; Oct. 7; v. 267; p. 83.
- Mortenson, John B. (See Mortenson, Samuel, assignor.)
- Mortenson, Samuel, assignor of one-half to J. B. Mortenson, Chicago, Ill. Package. No. 1,292,628; Jan. 28; v. 258; p. 704.
- Mortrud, Einar, Torderød, near Moss, Norway. Manufacture of cellulose. No. 1,299,597; Apr. 8; v. 261; p. 251.
- Mortrud, Einar, Torderød, near Moss, Norway. Condenser. No. 1,312,416; Aug. 5; v. 265; p. 105.
- Mortimer, George, Somerset, assignor to D. Napier & Son, Limited, London, England. Locking and adjusting device. No. 1,313,409; Aug. 19; v. 265; p. 344.
- Mortimer, Harry E., St. Louis, Mo. Device for applying tire-chains. No. 1,313,410; Aug. 19; v. 265; p. 344.
- Mortimer, Louis A., New York, N. Y., and G. C. Cummings, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,324,130; Dec. 9; v. 269; p. 215.
- Mortland, Anna C., et al. (See Dougherty, William, assignor.)
- Morton, Albert H., Lowell, Mass. Spinning-frame. No. 1,308,721; July 1; v. 264; p. 131.
- Morton, Alfred H., Matawan, N. J. Crate. No. 1,319,410; Oct. 21; v. 267; p. 421.
- Morton, Benjamin F., Hoboken, Pa. Glass-annealing furnace. No. 1,295,564; Feb. 25; v. 259; p. 692.
- Morton, Burris M., Koshkonong, Mo. Automatic rail-power. No. 1,312,131; Aug. 5; v. 265; p. 53.
- Morton, Charles M., Newcastle-upon-Tyne, and C. H. Stevenson, Gateshead, England. Portable screening apparatus for coal and other materials. No. 1,315,385; Sept. 9; v. 266; p. 177.
- Morton, Charles P., Cincinnati, Ohio. Cutter-head for last-lathes. No. 1,326,135; Dec. 23; v. 269; p. 669.
- Morton, David F., Boston, Mass. Water-sealed trap for radiators. No. 1,303,573; May 13; v. 262; p. 232.
- Morton E. Converse & Son Co. (See Converse, Atherton D., assignor.)
- Morton, Fred S., Worcester, Mass. Ball-bearing. No. 1,300,450; Apr. 15; v. 261; p. 465.
- Morton, Frederic C., New Haven, Conn. Tire-making machine. No. 1,315,981; Sept. 16; v. 266; p. 299.
- Morton, Frederic C., New Haven, Conn., assignor of one-half to F. B. Carlisle, Cranston, R. I. Tire-building machine. No. 1,298,767; Apr. 1; v. 261; p. 35.
- Morton, Frederic C., New Haven, Conn., assignor of one-half to F. B. Carlisle, Cranston, R. I. Tire-building machine. No. 1,298,768; Apr. 1; v. 261; p. 36.
- Morton, Frederic C., New Haven, Conn., assignor of one-half to F. B. Carlisle, Cranston, R. I. Tension device for tire-building machines. No. 1,298,769; Apr. 1; v. 261; p. 36.
- Morton, Frederick A., Timnath, Colo. Combination beet and grain dump rack. No. 1,315,386; Sept. 9; v. 266; p. 177.
- Morton, Gust O., Rockford, Ill. Drying-form for hosiery. No. 1,323,642; Dec. 2; v. 269; p. 78.
- Morton, Harold A., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Regenerating mercury catalysts. No. 1,293,863; Feb. 11; v. 259; p. 238.
- Morton, Harold A., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Making acetone. No. 1,315,525; Sept. 9; v. 266; p. 202.
- Morton, Harold A., and Ben H. Nicolet, Pittsburgh, Pa., assignors to Union Carbide Company, New York, N. Y. Preparing paracetaldehyde. No. 1,300,451; Apr. 15; v. 261; p. 465.
- Morton, Harry D., Detroit, Mich. Electric generating system. No. 1,317,935; Oct. 7; v. 267; p. 52.
- Morton, Harry E., Boston, Mass. Valve. No. 1,307,450; June 24; v. 263; p. 510.
- Morton, Herbert F. (See Savage and Morton.)
- Morton, James F. (See Prickett and Morton.)
- Morton, John H., London, England. Apparatus for drying vegetables and other substances or materials. No. 1,319,605; Oct. 21; v. 267; p. 458.
- Morton, John L. (See Curran and Morton.)
- Morton, Robert C., Baltimore, Md. Grate-bar. No. 1,314,890; Sept. 2; v. 266; p. 77.
- Morton, Robert C., Baltimore, Md. Locomotive steam-pipe. No. 1,322,260; Nov. 18; v. 268; p. 473.
- Morton, Woolridge B., New York, N. Y. Folding camera. No. 1,293,864; Feb. 11; v. 259; p. 238.
- Moru, Carl, assignor to The Badger Brass Mfg. Co., Kenosha, Wis. Head-lamp. No. 1,298,545; Mar. 25; v. 260; p. 689.
- Morum, William E. (See Preston, John E., assignor.)
- Mosca, Alfons, Norfolk, Va. Ice-shaving machine. No. 1,305,484; June 3; v. 263; p. 48.
- Moschel, Herman, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Extensible hay-stacker. No. 1,318,788; Oct. 14; v. 267; p. 276.
- Moschel, Herman, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Hay-stacker. No. 1,318,789; Oct. 14; v. 267; p. 276.
- Moscherrosch, Harry G., and P. G. Schwartz, Appleton, Wis. Attachment for shovels. No. 1,300,452; Apr. 15; v. 261; p. 465.
- Moscini, John, New York, N. Y. Comb-decorating machine. No. 1,299,852; Apr. 8; v. 261; p. 310.
- Moscini, John, New York, N. Y. Decorating-tool. No. 1,304,795; May 27; v. 262; p. 538.
- Moscrop, Joseph F., Omaha, Nebr. Method and apparatus for sterilizing and preserving milk and other fluids. No. 1,319,238; Oct. 21; v. 267; p. 388.
- Moseman, Ernest H., Brooklyn, N. Y. Illuminating means for Christmas trees. No. 1,303,103; May 6; v. 262; p. 119.
- Moseman, John H., et al. (See Herr, Abram B., assignor.)
- Moser, Fred J., Kane, Pa. Reversing-gearing for well-ribs. No. 1,302,576; May 6; v. 262; p. 18.
- Moser, Joseph H., Dunlap, Kans. Hay-shocker. No. 1,316,630; Sept. 23; v. 266; p. 469.
- Moser, Leo M., Moscow, Idaho. Armored car. No. 1,302,577; May 6; v. 262; p. 18.
- Moses, Byron. (See Milks and Moses.)
- Moses, Charles J., Bogota, N. J. Bomb. No. 1,294,937; Feb. 18; v. 259; p. 524.
- Moses, Charles J., Bogota, N. J. Torpedo-guard for ships. No. 1,317,094; Sept. 23; v. 266; p. 556.
- Moses, Edmund Q., New York, N. Y. Pump-coupling. No. 1,318,402; Oct. 14; v. 267; p. 203.
- Moses, Edmund Q., New York, N. Y., assignor of one-half to W. P. Hammond, Passaic, N. J. Vehicle-seat. No. 1,306,498; June 10; v. 263; p. 270.
- Moses, Frank D., Trenton, N. J. Apparatus for making hydrogen. No. 1,306,831; June 17; v. 263; p. 363.
- Moses, Jacob M., et al. (See Fry, John E., assignor.)
- Moses, Martin, Jr., New York, N. Y. Container for biscuits, crackers, and other commodities. No. 1,291,082; Jan. 14; v. 258; p. 282.
- Moses, Samuel M., Portland, Oreg. Baby's furniture. No. 1,293,512; Feb. 4; v. 259; p. 126.
- Moses, William B., Watertown, Mass. Dynamo-electric machine. No. 1,306,018; June 10; v. 263; p. 179.
- Moses, William B., Brookline, assignor to Gray & Davis Inc., Cambridge, Mass. Ignition apparatus. No. 1,306,116; June 10; v. 263; p. 197.
- Mosher, Charles D., New York, N. Y. Razor. No. 1,322,718; Nov. 25; v. 268; p. 610.
- Mosher, Lewis A., Goose Creek, Tex. Oil-well torpedo. No. 1,296,836; Mar. 11; v. 260; p. 265.
- Mosher, Smith, Peoria, Ill. Leveling instrument. No. 1,295,352; Feb. 25; v. 259; p. 641.
- Mosher, Willet H., assignor to Cundall, Powell & Mosher, Inc., Buffalo, N. Y. Trolley for hoisting apparatus, &c. No. 1,312,417; Aug. 5; v. 265; p. 106.
- Mosier, Orla H. (See Hempy, George L., assignor.)
- Mosier, Osa, Sexsmith, Alberta, Canada. Stump-puller. No. 1,320,636; Nov. 4; v. 268; p. 52.
- Moskowitz, Morris, New York, assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric regulator. No. 1,291,597; Jan. 14; v. 258; p. 400.
- Moskowitz, Morris, New York, assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electric regulation. No. 1,291,598; Jan. 14; v. 258; p. 401.
- Moskowitz, Rudolph, Detroit, Mich. Toy. No. 1,312,563; Aug. 12; v. 265; p. 164.
- Mosler, Arthur R., New York, N. Y. Gasket. No. 1,312,338; Aug. 5; v. 265; p. 90.
- Mosler, Arthur R., New York, N. Y. Spark-plug. No. 1,321,467; Nov. 11; v. 268; p. 273.
- Mosler, Arthur R., and G. Margolin, assignors to A. R. Mosler & Co., New York, N. Y. Producing mica insulators for spark-plugs. No. 1,320,637; Nov. 4; v. 268; p. 52.
- Mosler, Arthur R., and G. Margolin, assignors to A. R. Mosler & Co., New York, N. Y. Producing mica insulators for spark-plugs. No. 1,320,638; Nov. 4; v. 268; p. 52.
- Mosner, John W., and G. W. Crane, Syracuse, N. Y. Steam and hot-water boiler. No. 1,313,722; Aug. 19; v. 265; p. 403.
- Moss, Albert A., Newark, N. J. Wrench. No. 1,307,592; June 24; v. 263; p. 535.
- Moss, Charles, New York, N. Y. Non-skid and armor device for automobile-tires. No. 1,314,145; Aug. 26; v. 265; p. 517.
- Moss, Charles M., Pittsburgh, F. C. Harker, H. A. Travers, Wilkesburg, and F. Conrad, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of electrical distribution. No. 1,320,083; Oct. 28; v. 267; p. 570.



- Moss, Ernest, Christchurch, New Zealand. Postal franking-machine. No. 1,292,850; Jan. 28; v. 258; p. 756.
- Moss, Ernest, Dallington, Christchurch, New Zealand. Raising, lowering, and depth regulation of plows and other agricultural implements and vehicles. No. 1,309,299; July 8; v. 264; p. 266.
- Moss, Frank B. (See Gary and Moss.)
- Moss, Isidor, Brookline, Mass. Snap-fastener. No. 1,314,688; Sept. 2; v. 266; p. 41.
- Moss, William E., Liscard, England. Launching ships' boats. No. 1,304,353; May 20; v. 262; p. 415.
- Mossay, Paul A. H., London, England. Dynamo-electric machine. No. 1,320,781; Nov. 4; v. 268; p. 79.
- Mossberg, Frank, Attleboro, Mass. Carrier for braiding-machines. No. 1,295,565; Feb. 25; v. 259; p. 692.
- Mossberg, Frank, assignor of one-third to S. M. Einstein and one-third to C. L. Watson, Attleboro, Mass. Cartridge-clip. No. 1,292,629; Jan. 28; v. 258; p. 705.
- Mossig, Max, Berlin, Germany. Grooved and recessed ball-bearing. No. 1,301,295; Apr. 22; v. 261; p. 679.
- Mossman, Roy L., Humboldt, Tenn. Attachment for outside calipers. No. 1,290,294; Jan. 7; v. 258; p. 68.
- Mosso, William, Neffs, Ohio. Miner's lamp. No. 1,324,921; Dec. 16; v. 269; p. 427.
- Mossop, George. (See Schmidt, August, assignor.)
- Most, Lucifer J., assignor to Pencil Products Company, New York, N. Y. Magazine-pencil. No. 1,325,570; Dec. 23; v. 269; p. 565.
- Mosteller, Dosier H., Oak Park, Ill. Receptacle-cover. No. 1,310,836; July 22; v. 264; p. 618.
- Motala Verkstads Nya Aktiebolag. (See Von Porat, Karl H. V., assignor.)
- Motasky, Feliks, Stratford, Conn. Ash-sifter. No. 1,320,265; Oct. 28; v. 267; p. 604.
- Mote, Horace, Poulton-le-Fylde, England. Hand-driven implement for garden and field use. No. 1,318,578; Oct. 14; v. 267; p. 237.
- Motherwell, Lee R., assignor to Culter & Proctor Stove Co., Peoria, Ill. Stove or range. No. 1,325,106; Dec. 16; v. 269; p. 461.
- Moths, August A., Milwaukee, Wis. Computing-machine. No. 1,322,329; Nov. 18; v. 268; p. 485.
- Motion Picture Apparatus Company. (See Shields, Michael J., assignor.)
- Motion Picture Chair Co. (See Toole, Lucius C. and M. R., assignors.)
- Mott, Henry E., Houston, Tex. Tire-shoe. No. 1,299,005; Apr. 1; v. 261; p. 89.
- Motley, Phillips B., Westmount, Quebec, Canada. Heating system. No. 1,294,517; Feb. 18; v. 259; p. 427.
- Motor-Compressor Company, The. (See Spohrer, Gregory J., assignor.)
- Motor Cooling Systems Company, The. (See La Porte, Norbert M., assignor.)
- Motor Development Company. (See Bruah, Howard R., assignor.)
- Motor Ignition & Devices Company. (See Milton, John L., assignor.)
- Motor Products Corporation. (See Collins, Raymond W., assignor.)
- Motor Products Corporation. (See Neuman, Hugo, assignor.)
- Motor Terminals Company, The. (See Fitch, Benjamin F., assignor.)
- Motor Trailer Company. (See Doe, Loring B., assignor.)
- Motosacoché Societé Anonyme. (See Isliker, Albert, assignor.)
- Mott, Abraham C., Jr., A. J. Meyer, J. K. Halteman, and C. H. Wheawill, assignors to Abram Cox Stove Company, Philadelphia, Pa. Mold for casting shells. No. 1,298,373; Mar. 25; v. 260; p. 650.
- Mott, Abram C., Jr., assignor to Abram Cox Stove Company, Philadelphia, Pa. Baffle-plate for ovens. No. 1,310,872; July 22; v. 264; p. 624.
- Mott, Baldwin E., San Francisco, Calif. Automatic fire-extinguisher. No. 1,319,965; Oct. 28; v. 267; p. 548.
- Mott, Carl W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Plow. No. 1,319,483; Oct. 21; v. 267; p. 435.
- Mott, George T. (See Mott, John and G. T.)
- Mott, Harland S., Minneapolis, Minn. Sheaf-gatherer. No. 1,324,017; Dec. 2; v. 269; p. 149.
- Mott, James H., Minneapolis, Minn. Manure-spreader. No. 1,320,782; Nov. 4; v. 268; p. 79.
- Mott, John and G. T., Passaic, N. J. Radiator-support. No. 1,290,773; Jan. 7; v. 258; p. 183.
- Mott, Owen E. (See Holley and Mott.)
- Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. Sound reproducing and recording apparatus. No. 1,299,853; Apr. 8; v. 261; p. 310.
- Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. Phonograph record-disk. No. 1,320,639; Nov. 4; v. 268; p. 52.
- Mott Sand Blast Mfg. Co. (See Schroeder, Paul, assignor.)
- Mott, William P., Chicago, Ill. Sand-blast apparatus. No. 1,297,223; Mar. 11; v. 260; p. 352.
- Mott, William R., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Fume-absorber for electric lamps. No. 1,297,387; Mar. 18; v. 260; p. 416.
- Mott, William R., Lakewood, Ohio, assignor to National Carbon Company, Inc. Purifying lampblack and making carbon articles. No. 1,303,362; May 13; v. 262; p. 195.
- Mott, William R., Lakewood, Ohio, assignor to National Carbon Company, Inc. Arc-lamp electrode. No. 1,311,133; July 22; v. 264; p. 672.
- Mott, William R., Lakewood, Ohio, assignor to National Carbon Company, Inc. Electrode-coating. No. 1,314,603; Sept. 2; v. 266; p. 24.
- Mott, William R., Lakewood, Ohio, assignor to National Carbon Company. Arc-lamp electrode. No. 1,326,605; Dec. 30; v. 269; p. 795.
- Motte, Charles M., Paris, France. Driving and steering wheel. No. 1,306,554; June 10; v. 263; p. 280.
- Motte, Charles M., Paris, France. Multiple plow. No. 1,310,539; July 22; v. 264; p. 562.
- Motter, Elmer E., and F. G. Davis, Tippecanoe City, assignor of one-third to R. N. King, Oakwood, and F. H. Cook, Dayton, Ohio. Tobacco-harvester. No. 1,323,404; Dec. 2; v. 269; p. 34.
- Motteram, William C., Philadelphia, Pa. Tank for developing photographic films. No. 1,302,408; Apr. 29; v. 261; p. 922.
- Mottin, Willie F., Noel, Mo. Machine-gun. No. 1,290,842; Jan. 7; v. 258; p. 199.
- Motz, Charles F., Monaca, Pa. Sand-blast machine. No. 1,317,809; Oct. 7; v. 267; p. 28.
- Mouat, William, Detroit, Mich. Flush-valve. No. 1,320,565; Nov. 4; v. 268; p. 39.
- Mouche, Emile A., Lyon, France. Inclination tool or saw. No. 1,325,900; Dec. 23; v. 269; p. 626.
- Mouck, William E., Santa Barbara, Calif. Vulcanizing fuel. No. 1,298,546; Mar. 25; v. 260; p. 689.
- Mouck, William E., et al. (See White, Charles T., assignor.)
- Mougey, Harry C., and J. M. H. Jacobs, Dayton, Ohio, assignors to The Dayton Metal Products Company. Fuel-tank. No. 1,298,080; Mar. 25; v. 260; p. 589.
- Mould, Daniel, Ulsterville, N. Y. Milk-strainer. No. 1,291,599; Jan. 14; v. 258; p. 401.
- Mould, Edmund F., assignor to The Adams-Bagnall Company, Cleveland, Ohio. Electric fixture. No. 1,298,770; Apr. 1; v. 261; p. 36.
- Moulton, Ella. (See Moulton, Leslie B., assignor.)
- Moulton, Ernest, Salt Lake City, Utah. Extracting metals. No. 1,315,982; Sept. 16; v. 266; p. 299.
- Moulton, Harley C., Dorchester, Mass., assignor to Arbetter Felling Machine Company, Boston, Mass. Needle actuating and shogging mechanism for blindstitch sewing-machines. No. 1,298,246; Mar. 25; v. 260; p. 622.
- Moulton, Harley C., Dorchester, assignor to Arbetter Felling Machine Company, Boston, Mass. Bender mechanism for blindstitch sewing-machines. No. 1,316,458; Sept. 16; v. 266; p. 388.
- Moulton, James N., Haverhill, Mass. Welt-strip. No. 1,308,804; July 8; v. 264; p. 174.
- Moulton, Leslie B., U. S. Army, assignor to E. Moulton, Baker, Oreg. Weight-indicator. No. 1,294,298; Feb. 11; v. 259; p. 339.
- Mounce, Robert S., Rutherford, N. J., assignor to The Curtain Supply Company, Chicago, Ill. Releasable handle for diaphragm-curtains. No. 1,314,533; Sept. 2; v. 266; p. 11.
- Mount, Frederick R. (See Skelly, Bernard H., assignor.)
- Mount, William D., Saltville, Va., assignor to Nitrogen Products Company, Providence, R. I. Apparatus for treating gases. No. 1,304,697; May 27; v. 262; p. 520.
- Mountain, William W. (See Forbes, Ewing M., assignor.)
- Mountford, Clarence E., Brooklyn, assignor of one-half to L. Maisner, New York, N. Y. Seamless chain and method of constructing the same. No. 1,313,949; Aug. 26; v. 265; p. 480.
- Mouradian, Hughes, Philadelphia, Pa., assignor to American Telephone and Telegraph Company, Boston, Mass. Locating special transposition-points. (Reissue.) No. 14,593; Feb. 18; v. 259; p. 559.
- Mourning, Oliver J., Wichita, Kans. Griddle oiling and cleaning device. No. 1,321,387; Nov. 11; v. 268; p. 259.
- Mouser, Eugene M., Indianapolis, Ind. Combination cooker and water-heater. No. 1,318,686; Oct. 14; v. 267; p. 257.
- Mouser, William C., and J. A. Speakman, New Holland, Ohio. Combined stock restraining and dipping device. No. 1,315,322; Sept. 9; v. 266; p. 165.
- Moussette, Oliver J., Sr., Brooklyn, N. Y. Screen attachment for mills. No. 1,302,697; May 6; v. 262; p. 41.
- Movshovitch, Max, assignor of one-half to R. Mizzy, New York, N. Y. Tool-holder. No. 1,307,017; June 17; v. 263; p. 398.
- Mowat, Kenneth A., Atkins, Mich. Bed. No. 1,325,488; Dec. 16; v. 269; p. 532.
- Mowat, Oliver M., McKeesport, Pa. Rolling-mill. No. 1,310,206; July 15; v. 264; p. 470.
- Mowbray, A. J. H. (See Jones, Bryden, and Mowbray.)
- Mowbray, Frank H., Maidenhead, assignor to The Orchestrelle Company, London, England. Mechanical piano-player and the like. No. 1,320,783; Nov. 4; v. 268; p. 80.
- Mowers, William E., York, Pa. Valve-grinding tool. No. 1,314,012; Aug. 26; v. 265; p. 492.



## Alphabetical list of patentees—Continued.

- Mowery, Sterling L., Nescopeck, Pa. Transmission-clutch control. No. 1,296,837; Mar. 11; v. 260; p. 265.
- Mowll, Waller U., Kingston, and A. T. Palmer, Medford, Mass.; said Palmer assignor to said Mowll. Sheet-music turner. No. 1,305,829; June 3; v. 263; p. 113.
- Mowrey, Samuel H., Philadelphia, Pa. Folding stool. No. 1,325,164; Dec. 16; v. 269; p. 472.
- Mowrey, Walter E., Arnold, Nebr. Photographic-printing machine. No. 1,304,796; May 27; v. 262; n. 539.
- Mowry, Edward, Sterling, Ill., assignor, by mesne assignments, to International Harvester Company. Hay-rake. No. 1,294,822; Feb. 18; v. 259; p. 497.
- Mowry, Edward, Sterling, Ill., assignor, by mesne assignments, to International Harvester Company. Hay-loader. No. 1,312,342; Aug. 5; v. 265; p. 90.
- Mowry, Edward S., assignor to Wilcox, Crittenden and Company, Incorporated, Middletown, Conn. Flag-bracket. No. 1,294,518; Feb. 18; v. 259; p. 427.
- Moxey, James A., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Folding end-gate. No. 1,308,189; July 1; v. 264; p. 33.
- Moxey, James A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Removable standard for wagon-holsters. No. 1,312,343; Aug. 5; v. 265; p. 91.
- Moxham, Arthur J., Wilmington, Del. Ore-separating process. No. 1,204,519; Feb. 18; v. 259; p. 427.
- Moxham, Arthur J., New York, N. Y. Machine for treating explosive material. No. 1,299,500; Apr. 8; v. 261; p. 229.
- Moxham, Arthur J., New York, N. Y. Cooling explosive shells. No. 1,311,176; July 29; v. 264; p. 713.
- Moxlow, Edward. (See McCurdy, Horace L., assignor.)
- Moyer, Eli N., assignor to E. N. Moyer Company, Limited, Toronto, Ontario, Canada. School desk and seat. No. 1,319,236; Oct. 21; v. 267; p. 387.
- Moyer, Franklin T., Napa, Calif. Scarifier. No. 1,298,374; Mar. 25; v. 260; p. 651.
- Moyer, Fredellia H. (See Slick and Moyer.)
- Moyer, Jonas J., Oakland, Calif. Speculum. No. 1,300,756; Apr. 15; v. 261; p. 529.
- Moyer, Malcolm B., assignor to Moyer Manufacturing Company, Montevideo, Minn. Gate-latch. No. 1,301,153; Apr. 22; v. 261; p. 650.
- Moyer, Malcolm B., assignor to Moyer Manufacturing Company, Montevideo, Minn. Connector for overhead tracks. No. 1,304,354; May 20; v. 262; p. 416.
- Moyer Manufacturing Company. (See Moyer, Malcolm B., assignor.)
- Moyers, George F., Osceola, Iowa. Vermin-exterminating device. No. 1,300,997; Apr. 15; v. 261; p. 580.
- Moyes, Henry, Eltham, New Zealand. Hat-fastener. No. 1,308,296; July 1; v. 264; p. 53.
- Moyle, Edward H., Los Angeles, Calif. Rock-crusher. No. 1,304,355; May 20; v. 262; p. 416.
- Moynihan, Eugene J., San Francisco, Calif. Excavator bucket. No. 1,307,747; June 24; v. 263; p. 564.
- Moynihan, Eugene J., San Francisco, Calif. Latch for dredger-buckets. No. 1,310,030; July 15; v. 264; p. 438.
- Mozdzien, Mikela. (See Decowski, John, assignor.)
- Mruk, Laudie J., Butte, Mont. Lubricator. No. 1,308,604; July 1; v. 264; p. 109.
- Mucher, John J., Brooklyn, N. Y. Tube-squeezer. No. 1,311,085; July 22; v. 264; p. 663.
- Muchow, William M., Evanston, Ill. Preparing amalgam for dentists' use. No. 1,317,886; Oct. 7; v. 267; p. 43.
- Muckle, Theodore W., Denver, Colo. Burner. No. 1,302,950; May 6; v. 262; p. 89.
- Mudd, Frank X., Chicago, Ill. Preparing commercial fertilizer from poultry-manure. No. 1,320,405; Nov. 4; v. 268; p. 9.
- Mudd, Thomas O., Laredo, Tex. Rifle-bolt. No. 1,305,830; June 3; v. 263; p. 113.
- Mudge & Company. (See Eklund, Karl J., assignor.)
- Muehlberg, Karl O., Manitowoc, Wis. Tube-coupling. No. 1,296,103; Mar. 4; v. 260; p. 66.
- Muehleisen, Thomas, San Diego, Cal. Water-heater. No. 1,291,083; Jan. 14; v. 258; p. 282.
- Muehleisen, Thomas, San Diego, Calif. Oil-burner. No. 1,299,206; Apr. 1; v. 261; p. 134.
- Mueller, Adolph, trustee. (See Mueller and Schuermann, assignors.)
- Mueller, Adolph, trustee. (See Wells, Jewel W., assignor.)
- Mueller, Albert B., Chicago, Ill. Casing structure. No. 1,317,634; Sept. 30; v. 266; p. 695.
- Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,317,635; Sept. 30; v. 266; p. 695.
- Mueller, Albert B., Chicago, Ill. Motion-picture projection apparatus. No. 1,317,636; Sept. 30; v. 266; p. 695.
- Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,317,637; Sept. 30; v. 266; p. 696.
- Mueller, Arnold, Denver, Colo. Control means for automobile low-speed levers. No. 1,314,418; Aug. 26; v. 265; p. 570.
- Mueller, Charles W., Jersey City, N. J. Bird-perch. No. 1,293,513; Feb. 4; v. 259; p. 126.
- Mueller, Conrad H., et al. (See Clyne, Robert G., assignor.)
- Mueller, Curt L. E., Joliet, Ill. Motor-fuel. No. 1,297,388; Mar. 18; v. 260; p. 417.
- Mueller, Curt L. E., assignor to The Challenge Spark Plug Company, Joliet, Ill. Spark-plug. No. 1,326,606; Dec. 30; v. 269; p. 795.
- Mueller, Engelbert. (See Rosenfeld, Adolph, assignor.)
- Mueller, Engelbert, Reserve township, Allegheny county, Pa. Artificial leg. No. 1,315,323; Sept. 9; v. 266; p. 165.
- Mueller, Frederick A., Indianapolis, Ind. Combined cabinet and automobile-repair trundle-platform. No. 1,297,224; Mar. 11; v. 260; p. 352.
- Mueller, Frederick H., Grand Rapids, Mich. Rocking-chair. No. 1,297,718; Mar. 18; v. 260; p. 486.
- Mueller, Henry, deceased; I. W. Mueller, administratrix, assignor to G. H. Forsyth, Chicago, Ill. Welding. No. 1,323,485; Dec. 2; v. 269; p. 49.
- Mueller, Herman C., Milwaukee, Wis. Armature-winding mechanism. No. 1,312,564; Aug. 12; v. 265; p. 164.
- Mueller, Hilmar, Trenton, N. J. Pump. No. 1,301,485; Apr. 22; v. 261; p. 715.
- Mueller, Ida W., administratrix. (See Mueller, Henry.)
- Mueller, Louis J., Jr., Milwaukee, Wis. Combined garbage-burner and heater. No. 1,308,989; July 8; v. 264; p. 208.
- Mueller, Otto, Elkton, Fla. Cultivator. No. 1,312,418; Aug. 5; v. 265; p. 106.
- Mueller, Philip, Decatur, Ill. Gripping-nut. No. 1,293,865; Feb. 11; v. 259; p. 238.
- Mueller, Philip, Decatur, Ill. Seat washer and stem. No. 1,311,832; July 29; v. 264; p. 835.
- Mueller, Philip, Decatur, Ill. Sanitary drinking-fountain. No. 1,311,833; July 29; v. 264; p. 835.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee. Index for cocks. No. 1,319,891; Oct. 28; v. 267; p. 535.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Index-holding means. No. 1,319,892; Oct. 28; v. 267; p. 535.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Index for cocks. No. 1,319,893; Oct. 28; v. 267; p. 535.
- Mueller, Robert H., Decatur, Ill. Tapping-machine. No. 1,301,730; Apr. 22; v. 261; p. 762.
- Mueller, Robert H., Decatur, Ill. Relief-valve. No. 1,305,615; June 3; v. 263; p. 75.
- Mueller, Robert H., Decatur, Ill. Service-box. No. 1,311,834; July 29; v. 264; p. 835.
- Mueller, Vinzenz, assignor to V. Mueller & Co., Chicago, Ill. Tonsil-remover. No. 1,297,389; Mar. 18; v. 260; p. 417.
- Mueller, William V., Millstadt, Ill. Switch. No. 1,297,390; Mar. 18; v. 260; p. 417.
- Muench, Reinhold K., Goldfield, Colo. Preparation of pure iron. No. 1,322,630; Jan. 28; v. 258; p. 705.
- Mueser, William, New York, N. Y. Reinforced-concrete reservoir. No. 1,301,154; Apr. 22; v. 261; p. 651.
- Mueser, William, New York, N. Y. Tank or reservoir of reinforced concrete. No. 1,301,155; Apr. 22; v. 261; p. 651.
- Muessel, Rudolph, Toledo, Ohio. Thumb-hold for book-leaf turning. No. 1,301,486; Apr. 22; v. 261; p. 715.
- Muhleisen, Henry W., and C. Lund; said Muhleisen assignor to W. S. Rush, Los Angeles, Calif. Timer. No. 1,305,559; June 3; v. 263; p. 63.
- Muhlfeld, John E. (See Stafford, Hal R., assignor.)
- Muhlfeld, John E., Scarsdale, N. Y. Feed-water apparatus. No. 1,301,156; Apr. 22; v. 261; p. 651.
- Muhlhausen, William C., Brooklyn, N. Y. Building-blocks and mechanical bond therefor. No. 1,295,919; Mar. 4; v. 260; p. 22.
- Muir, Chester A., and C. A. Taylor, Sayre, Pa. Projectile. No. 1,311,285; July 29; v. 264; p. 733.
- Muir, David E., New York, assignor of twenty-five one-hundredths to R. Giles, Brooklyn, twenty-five one-hundredths to Henry A. Steinbock, and twenty-five one-hundredths to T. W. McKnight, New York, N. Y. Fire-extinguisher. No. 1,302,829; May 6; v. 262; p. 66.
- Muir, Levi, assignor of one-half to F. C. Stannard, Salt Lake City, Utah. Signaling device. No. 1,319,722; Oct. 28; v. 267; p. 502.
- Muir, Robert W., Hunter, N. D. Accelerator for automobiles. No. 1,318,100; Oct. 7; v. 267; p. 83.
- Muir, Wellington W., Baltimore, Md. Cooling system. No. 1,311,528; July 29; v. 264; p. 780.
- Muir, Wellington W., Baltimore, Md. Cooling system. No. 1,311,529; July 29; v. 264; p. 780.
- Muirhead, Alfred R., Hillsboro, Tex. Measuring, weighing, and registering machine. No. 1,319,105; Oct. 21; v. 267; p. 362.
- Mulcahy, Joseph, Astoria, assignor of one-fourth to E. B. McCullen, New York, N. Y. Holder for spare demountable rim or rims. No. 1,320,084; Oct. 28; v. 267; p. 571.
- Mulder, Jelte R., Roselawn, Ind. Corn-planter. No. 1,295,566; Feb. 25; v. 259; p. 692.
- Mulet, Lorenzo M., San Juan, Porto Rico. Continuous centrifugal separator. No. 1,309,651; July 15; v. 264; p. 369.



- Mull, Arthur L., assignor to H. W. Rountree & Brother Trunk and Bag Co. Incorporated, Richmond, Va. Clothes follower or presser. No. 1,302,069; Apr. 29; v. 261; p. 858.
- Mullaly, Joseph H., Winnipeg, Manitoba, Canada. Paste stand and feeder. No. 1,299,758; Apr. 8; v. 261; p. 289.
- Mullally, John B., Seattle, Wash. Envelop-moistener. No. 1,313,723; Aug. 19; v. 265; p. 403.
- Mullane, Patrick East Moline, Ill. Can-punch. No. 1,295,353; Feb. 25; v. 259; p. 641.
- Mullen, Daniel J., *et al.* (See Ricketson, William E., assignor.)
- Mullen, George B., New York, N. Y. Light-reflecting hand-signal. No. 1,294,938; Feb. 18; v. 259; p. 524.
- Mullen, Robert T., and J. W. Moore, Detroit, Mich. Wall-hanger for radiators. No. 1,306,272; June 10; v. 263; p. 229.
- Mullenders, Julia. (See Schmoele, William F., assignor.)
- Mullens, Sanford D., Craneco, W. Va. Railway-switch. No. 1,291,084; Jan. 14; v. 258; p. 283.
- Muller, Charles A., New York, N. Y. Stylus and holder for the same. No. 1,290,295; Jan. 7; v. 258; p. 68.
- Muller, Edward A. (See Richardson and Muller.)
- Müller, Emil, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Synthetically producing tropic acid. No. 1,305,301; June 3; v. 263; p. 14.
- Müller, Friedrich, assignor to Pratt & Whitney Company, Hartford, Conn. Relieving-lathe. No. 1,299,207; Apr. 1; v. 261; p. 134.
- Müller, Friedrich, assignor to Pratt & Whitney Company, Hartford, Conn. Relieving-lathe. No. 1,299,208; Apr. 1; v. 261; p. 134.
- Müller, Friedrich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Lathe tail-stock. No. 1,318,223; Oct. 7; v. 267; p. 108.
- Muller, Fritz A. (See Michaud, Onesime E., assignor.)
- Müller, Henry, Waterbury, Conn., assignor to The Shoe Hardware Company. Boot-last. No. 1,296,996; Mar. 11; v. 260; p. 303.
- Muller, Jean P., Le Havre, France. Igniting device. No. 1,314,419; Aug. 26; v. 265; p. 571.
- Muller, John P., San Fernando, Calif. Windmill. No. 1,298,247; Mar. 25; v. 260; p. 625.
- Müller-Meyer, Emil, Wallisellen, Switzerland. Hinge for doors, windows, flaps, and the like. No. 1,298,547; Mar. 25; v. 260; p. 689.
- Muller, Rudolf, San Francisco, Calif. Shaving-brush attachment for collapsible tubes. No. 1,319,669; Oct. 21; v. 267; p. 470.
- Müller, Steven, Mason City, Iowa. Life-preserver. No. 1,324,514; Dec. 9; v. 269; p. 290.
- Müller, Theodor, assignor of one-half to O. Häfeli, Zurich, Switzerland. Curved-line scriber. No. 1,299,006; Apr. 1; v. 261; p. 90.
- Muller, William F., Brooklyn, N. Y. Refillable electric fuse. No. 1,317,381; Sept. 30; v. 266; p. 646.
- Mulligan, Francis M., assignor of one-fourth to J. S. Halev, Bozeman, Mont. Washing-machine. No. 1,307,919; June 24; v. 263; p. 595.
- Mulligan, William N., Watertown, N. Y. Automatic cutting-fluid regulator. No. 1,290,640; Jan. 7; v. 258; p. 151.
- Mullin, Frank E., Pennant, Saskatchewan, Canada. Wiring connection for automobile-lights. No. 1,295,191; Feb. 25; v. 259; p. 604.
- Mullin, William T., Port Alberni, British Columbia, Canada. File-holding device. No. 1,323,899; Dec. 2; v. 269; p. 127.
- Mulloy, John H. (See Cederstrom and Mulloy.)
- Multi Refillable Fuse Company. (See McDonald, Clarence T., assignor.)
- Multicolor Intaglio Press Company. (See McGiehan, Patrick H., assignor.)
- Multicolor Intaglio Press Company. (See Saalberg, Charles W., assignor.)
- Multiple Display Fixture Company. (See Crecelius, Theodore E., assignor.)
- Multiple Storage Battery Co. (See Sturges, Norman D., assignor.)
- Multiport Company. (See Balkwill, Wesley J., assignor.)
- Multipost Company. (See Balkwill and Schweiger, assignors.)
- Multipull Manufacturing Company. (See Eggleston, Robert N., assignor.)
- Mulvane, William J., Lisle, Ill. Automatic stove-lighter. No. 1,299,376; Apr. 1; v. 261; p. 172.
- Mulvany, Harry A., and H. E. Kennedy, Berkeley, assignors to Electric Sales Service Co., San Francisco, Calif. Electric water-heater. No. 1,323,643; Dec. 2; v. 269; p. 78.
- Mulvany, Harry A., and H. E. Kennedy, Berkeley, assignors to Electric Sales Service Co., San Francisco, Cal. Thermostat. No. 1,294,141; Feb. 11; v. 259; p. 303.
- Mulvey, Bernard B., New Haven, Conn. Cartridge-feeding device. No. 1,314,013; Aug. 26; v. 265; p. 492.
- Mulvihill, Daniel C., Hannibal, Mo. Chaplet. No. 1,325,749; Dec. 23; v. 269; p. 598.
- Mulvihill, Daniel C., Hannibal, Mo. Mold-forming apparatus. No. 1,325,750; Dec. 23; v. 269; p. 598.
- Mumbrauer, William, New York, N. Y. Door-closure. No. 1,323,783; Dec. 2; v. 269; p. 105.
- Mumbrauer, William, New York, N. Y. Door-lock. No. 1,324,018; Dec. 2; v. 269; p. 150.
- Mumford, Edgar H., deceased; R. S. Mumford, executrix, Plainfield, N. J. Molding-machine. No. 1,306,075; June 10; v. 263; p. 189.
- Mumford, Gladys. (See Fowler and Mumford.)
- Mumford Molding Machine Company. (See Gates, Philetus W., assignor.)
- Mumford Molding Machine Company. (See Krause, William P., assignor.)
- Mumford, Rose S., executrix. (See Mumford, Edgar H.)
- Mumford, Russell W., New York, N. Y., assignor to Refining Products Corporation, Wilmington, Del. Making sugar. No. 1,314,203; Aug. 26; v. 265; p. 528.
- Mumford, Russell W., New York, N. Y., assignor to Refining Products Corporation, Wilmington, Del. Making purifying preparations. No. 1,314,204; Aug. 26; v. 265; p. 528.
- Mummert, Arden J. (See Cummings and Mummert.)
- Mummert, Arden J., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Piston lubrication. No. 1,313,905; Aug. 26; v. 265; p. 471.
- Mummert, Arden J., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Manufacturing piston-rings. No. 1,314,534; Sept. 2; v. 266; p. 11.
- Mummert, Arden J., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Piston-ring. No. 1,321,539; Nov. 11; v. 268; p. 286.
- Mummert, Arden J., and J. T. Woodbridge, assignors to McQuay-Norris Manufacturing Company, St. Louis, Mo. Packing-ring. No. 1,298,548; Mar. 25; v. 260; p. 689.
- Mummert, Arthur E., Milwaukee, Wis. Grain-binder. No. 1,320,406; Nov. 4; v. 268; p. 9.
- Mummert, Harvey C., Floral Park, N. Y. Button. No. 1,306,922; June 17; v. 263; p. 381.
- Muncie Wheel Company. (See Mills, Emory S., assignor.)
- Muncy, Winfred P., Doyle, Calif. Towing device. No. 1,303,104; May 6; v. 262; p. 119.
- Mundy, Harry, and A. Stock, Montreal, Quebec, Canada; said Mundy assignor to said Stock. Cutter. No. 1,296,549; Mar. 4; v. 260; p. 164.
- Mundy, Herbert C., and E. Harrison, Los Angeles, Calif. Garden-tool. No. 1,313,200; Aug. 12; v. 265; p. 289.
- Mungenast, Andrew, St. Louis, Mo. Lever extension. No. 1,308,990; July 8; v. 264; p. 209.
- Munger, Calvin D. (See Munger, Ross and C. D.)
- Munger, Don A., Detroit, Mich. Electric switch. No. 1,300,855; Apr. 15; v. 261; p. 550.
- Munger, Eugene, assignor to Continental Gin Company, Birmingham, Ala. Hydraulic-press valve mechanism. No. 1,292,013; Jan. 21; v. 258; p. 534.
- Munger, Eugene, assignor to Continental Gin Company, Birmingham, Ala. Valve mechanism for hydraulic presses. No. 1,292,014; Jan. 21; v. 258; p. 535.
- Munger, Eugene, assignor to Continental Gin Company, Birmingham, Ala. Valve mechanism for hydraulic presses. No. 1,292,355; Jan. 21; v. 258; p. 617.
- Munger, James V., Portland, N. Y. Universal driving-joint. No. 1,305,302; June 3; v. 263; p. 14.
- Munger, Melvin L., Pittsburgh, Pa., assignor to E. B. Sawyer, Lincoln, Nebr. Tire-vulcanizer. No. 1,311,613; July 29; v. 264; p. 795.
- Munger, Robert S., Birmingham, Ala., assignor to Continental Gin Company. Cotton-cleaner. No. 1,311,907; Aug. 5; v. 265; p. 11.
- Munger, Ross and C. D., El Toro, Cal. Bean-harvester. No. 1,295,822; Feb. 25; v. 259; p. 750.
- Munhollow, Frank, assignor of one-third to C. F. Lockhart, Cleveland, Ohio. Kiln. No. 1,311,286; July 29; v. 264; p. 733.
- Munkers, James C., Falls City, Oreg. Saw-carrying device. No. 1,305,831; June 3; v. 263; p. 113.
- Munktelis Mekaniska Verkstads Aktiebolag. (See Edholm, Fredric, assignor.)
- Munn, Armstrong L., Merinbula, New South Wales, Australia. Current-motor. No. 1,326,769; Dec. 30; v. 269; p. 826.
- Munn, Eugene L., Altoona, Pa. Rotary engine. No. 1,320,892; Nov. 4; v. 268; p. 101.
- Munn, George B., and C. H. Marker, Warren, Pa. Fountain-pen. No. 1,294,520; Feb. 18; v. 259; p. 427.
- Munn, Samson P., assignor of fifty-five one-hundredths to J. T. Flint, St. Louis, Mo. Smoke-consumer. No. 1,301,588; Apr. 22; v. 261; p. 734.
- Munro, Andrew R., Medicine Lake, Mont. Paper cap for milk-bottles. No. 1,303,710; May 13; v. 262; p. 258.
- Munro, Edward M., London, England. Universal or like joint. No. 1,316,380; Sept. 16; v. 266; p. 373.
- Munro, Fred C. (See Cushing and Munro.)
- Munro, James A., Melbourne, Victoria, Australia. Seat of motor-vehicles. No. 1,315,031; Sept. 2; v. 266; p. 102.
- Munro, Peter C., Pittsburgh, Pa. Propeller. No. 1,326,770; Dec. 30; v. 269; p. 826.
- Munroe, Frederick M., Huntington, N. Y. Safety-razor. No. 1,290,641; Jan. 7; v. 258; p. 152.
- Munsell Color Company. (See Allen, Arthur S., assignor.)



## Alphabetical list of patentees—Continued.

- Munsell, Harry W., Indianapolis, Ind., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Semi-automatic telephone system. No. 1,296,104; Mar. 4; v. 260; p. 66.
- Munslow, William E., Steubenville, Ohio. Railway-tie. No. 1,317,985; Oct. 7; v. 267; p. 62.
- Munson, Edgar W. (See Losee, Edward T., assignor.)
- Munson, Luther S., et al. (See Trumpour, Frederick J., assignor.)
- Munson, Sweeney, Fowler, Colo. Change-speed transmission. No. 1,316,633; Sept. 23; v. 266; p. 470.
- Munter, Charles, New York, N. Y. Body-conformer. No. 1,312,744; Aug. 12; v. 265; p. 199.
- Muntz, William E., London, England. Selecting device for electric bells and the like. No. 1,294,691; Feb. 18; v. 259; p. 467.
- Muntz, William E., London, England. Tap or valve. No. 1,294,692; Feb. 18; v. 259; p. 467.
- Muntz, William E., London, England. Tire for vehicles. No. 1,307,208; June 17; v. 263; p. 432.
- Murch, John H., assignor to American Can Company, San Francisco, Calif. Apparatus for feeding, sorting, and distributing can ends. No. 1,310,837; July 22; v. 264; p. 618.
- Murch, John H., assignor to American Can Company, San Francisco, Calif. Automatic die-grinder. No. 1,326,462; Dec. 30; v. 269; p. 768.
- Murchev, David L., Detroit, Mich. Game-counter. No. 1,291,085; Jan. 14; v. 258; p. 283.
- Murdoch, Everett C., Berkeley, Calif., and G. J. Kelly, Haverhill, Mass. Pyrophoric gas-igniter. No. 1,312,862; Aug. 12; v. 265; p. 222.
- Murdoch, Franklin P., East Orange, N. J., assignor to Gillis & Geoghegan, New York, N. Y. Hanger for radiators. No. 1,311,908; Aug. 5; v. 265; p. 11.
- Murdoch, Charles A., assignor of one-half to F. L. Levy, Stockton, Calif. Track-laying tractor. No. 1,320,165; Oct. 28; v. 267; p. 585.
- Murdock, Chester S., Booneville, Ark. Valve-operating mechanism for engines. No. 1,305,397; June 3; v. 263; p. 32.
- Murdock, Floyd L., Cleveland, Ohio. Spring-tire. No. 1,303,366; May 13; v. 262; p. 195.
- Murdock, George J., Newark, N. J. Self-sealing fuel-tank. No. 1,312,745; Aug. 12; v. 265; p. 199.
- Murdock, Lee, Waynesburg, Pa. Wrench. No. 1,315,787; Sept. 9; v. 266; p. 248.
- Murdock, Walter S., Houston, Tex. Mold for forming walls and floors. No. 1,319,606; Oct. 21; v. 267; p. 458.
- Murdock, William J., assignor of one-half to H. M. Ferguson, Clinton, Ind. Automatically-controlled torpedo. No. 1,303,105; May 6; v. 262; p. 119.
- Muren, Albert L., Burlington, Iowa. Storage-battery electrode. No. 1,315,032; Sept. 2; v. 266; p. 102.
- Murnane, Daniel J., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Framing construction. No. 1,300,757; Apr. 15; v. 261; p. 529.
- Murnane, Daniel J., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Glass-securing device. No. 1,319,239; Oct. 21; v. 267; p. 388.
- Muro, Juichiro, assignor to Toyo Suido Mokkan Kwaisha, Ltd., Sagisu-cho, Nishinari-Gun, Osaka-Fu, Japan. Wooden-stave-pipe-banding machine. No. 1,326,136; Dec. 23; v. 269; p. 670.
- Murphy, Charles H. (See Glenn, Walter T., assignor.)
- Murphy, Charles P., Cleveland, Ohio. Leaf-spring. No. 1,314,282; Aug. 26; v. 265; p. 544.
- Murphy, Charles W., and W. J. Brittain, Holdenville, Okla. Front-radius-rod brace for motor-vehicles. No. 1,302,698; May 6; v. 262; p. 41.
- Murphy, Daniel R., Uniontown, Pa. Throttle-valve. No. 1,315,387; Sept. 9; v. 266; p. 177.
- Murphy, David, Cleveland, Ohio. Closing means for jars. No. 1,292,356; Jan. 21; v. 258; p. 618.
- Murphy, David A., Portland, Ore. Portable electric lamp. No. 1,295,567; Feb. 25; v. 259; p. 692.
- Murphy, Edward T., New York, N. Y. Locking and guiding bolt for combined swinging and sliding doors. No. 1,302,409; Apr. 29; v. 261; p. 922.
- Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch. No. 1,306,555; June 10; v. 263; p. 280.
- Murphy, Everett N., assignor to Stevens Partition & Floor Deadener Co., Chicago, Ill. Floor construction. No. 1,302,578; May 6; v. 262; p. 18.
- Murphy, Frederick W., et al. (See Ricketson, William E., assignor.)
- Murphy, Harold M., South Portland, Me. Safety-cap for oil-cans and the like. No. 1,292,015; Jan. 21; v. 258; p. 535.
- Murphy, Henry A., et al. (See Nicholson, Alonzo L., assignor.)
- Murphy Iron Works. (See Bouton, George I., assignor.)
- Murphy, James L., Chicago, Ill. Collar and support. No. 1,303,363; May 13; v. 262; p. 195.
- Murphy, James T., and E. J. Raney, assignors of one-third to J. L. Carey, Chicago, Ill. Beating-engine. No. 1,310,628; July 22; v. 264; p. 579.
- Murphy, James T., and E. J. Raney, assignor to J. L. Carey, Chicago, Ill. Apparatus for making paper. No. 1,318,900; Oct. 14; v. 267; p. 298.
- Murphy, John, Oakland, Calif. Device for windrowing beans. No. 1,304,797; May 27; v. 262; p. 539.
- Murphy, John, Hartford City, Ind., assignor to Window Glass Machine Company, Pittsburgh, Pa. Splitting-buck for glass cylinders. No. 1,307,209; June 17; v. 263; p. 432.
- Murphy, John A., Pueblo, Colo. Toy. No. 1,322,199; Nov. 18; v. 268; p. 461.
- Murphy, John D., Chicago, Ill. Counterbalanced gate for conveyer-tracks. No. 1,303,574; May 13; v. 262; p. 233.
- Murphy, John M., Kingstown, Ireland. Mechanical toy. No. 1,323,900; Dec. 2; v. 269; p. 128.
- Murphy, John N., Springfield, Ill., assignor of one-third to F. H. Baker, Tulsa, Okla. Siphon flush-tank. No. 1,298,549; Mar. 25; v. 260; p. 690.
- Murphy, Kenneth, Salt Lake City, Utah. Show-card exhibitor. No. 1,326,084; Dec. 23; v. 269; p. 660.
- Murphy, Leonard, Dublin, Ireland. Apparatus for indicating the depth of liquids in vessels. No. 1,294,939; Feb. 18; v. 259; p. 524.
- Murphy, Lloyd L., Woodlake, Cal. Jar-closure. No. 1,294,142; Feb. 11; v. 259; p. 303.
- Murphy, Nelson, assignor of one-fourth to T. L. Hutton, Detroit, Mich. Safety device for punch-presses. No. 1,295,827; Feb. 25; v. 259; p. 752.
- Murphy, Nicholas E., Milwaukee, Wis. Rerolling device. No. 1,303,942; May 20; v. 262; p. 339.
- Murphy, Robert N., Ottawa, Ontario, Canada. Sanitary trap. No. 1,311,287; July 29; v. 264; p. 734.
- Murphy, Thomas F., Utica, N. Y. Safety-catch for jewelry. No. 1,300,856; Apr. 15; v. 261; p. 550.
- Murphy, Thomas J., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Telegraph-sounder. No. 1,304,356; May 20; v. 262; p. 416.
- Murphy, Thomas W., Philadelphia, Pa. Liquid-elevating apparatus. No. 1,292,851; Jan. 28; v. 258; p. 756.
- Murphy, Timothy, assignor of one-half to D. Montgomery, Beacon, N. Y. Lawn-trimmer. No. 1,314,535; Sept. 2; v. 266; p. 11.
- Murphy, Walter P. (See Fowler, Frank G., assignor.)
- Murphy, Walter P. (See Gilpin, Garth G., assignor.)
- Murphy, Walter P. (See Goodwin, George S., assignor.) (Reissue.)
- Murphy, Walter P. (See Mathews, Fred, assignor.)
- Murphy, Walter P. (See Nicholas, Charles W., assignor.)
- Murphy, Walter P. (See Sisson, Vinton E., assignor.)
- Murphy, Walter P., Chicago, Ill. Release-rigging for car-couplings. No. 1,290,970; Jan. 14; v. 258; p. 255.
- Murphy, Walter P., Chicago, Ill. End structure for gondola cars. No. 1,299,991; Apr. 8; v. 261; p. 339.
- Murphy, Walter P., Chicago, Ill. Vertically-corrugated sheet-metal car end. No. 1,301,487; Apr. 22; v. 261; p. 716.
- Murphy, Walter P., Chicago, Ill. Buffer-spring for car-vestibule-diaphragm face-plates. No. 1,303,364; May 13; v. 262; p. 195.
- Murphy, Walter P., Chicago, Ill. Sheet-metal end structure for railway-cars. No. 1,304,999; May 27; v. 262; p. 576.
- Murphy, Walter P., Chicago, Ill. Corrugated sheet-metal car end. No. 1,309,484; July 8; v. 264; p. 300.
- Murphy, Walter P., Chicago, Ill. Sheet-metal end structure for railway-cars. No. 1,311,572; July 29; v. 264; p. 787.
- Murphy, Walter P., Chicago, Ill. Sheet-metal end structure for railway-cars. No. 1,313,106; Aug. 12; v. 265; p. 271.
- Murphy, Walter P., Chicago, Ill. Combined uncoupling-lever and coupling-positioning device. No. 1,314,283; Aug. 26; v. 265; p. 544.
- Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,295,192; Feb. 25; v. 259; p. 605.
- Murphy, Walter P., New York, N. Y., assignor to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,296,308; Mar. 4; v. 260; p. 112.
- Murphy, William L., assignor to Dewey Davenport Company, San Francisco, Calif. Sofa-bed. No. 1,305,662; June 3; v. 263; p. 82.
- Murray, Albert L., Auburn, Ind. Manufacturing automobile-tire patches. No. 1,311,134; July 22; v. 264; p. 672.
- Murray, Andrew P., Toledo, Ohio. Pasteurization apparatus. No. 1,307,689; June 24; v. 263; p. 553.
- Murray, George C., Chicago, Ill. Car-roof construction. No. 1,319,237; Oct. 21; v. 267; p. 388.
- Murray, Henry S., Denver, Colo. Cooking utensil. No. 1,318,790; Oct. 14; v. 267; p. 276.
- Murray, Howard J., Brooklyn, N. Y. Motor type of electric gear-shift. No. 1,295,920; Mar. 4; v. 260; p. 22.
- Murray, James J., New York, N. Y. Airplane. No. 1,290,843; Jan. 7; v. 258; p. 199.
- Murray, John, Edinburgh, Scotland. Die device for the formation of paper-fasteners. No. 1,320,266; Oct. 28; v. 267; p. 605.
- Murray, John M., Philadelphia, Pa. Nut and bolt tightening device. No. 1,290,296; Jan. 7; v. 258; p. 68.
- Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)
- Murray, Joseph B., Brooklyn, N. Y. Refining of metals. No. 1,295,568; Feb. 25; v. 259; p. 692.



- Murray, Joseph B. and T. E., Jr., Brooklyn, N. Y. Means for guiding projectiles during flight. No. 1,293,869; Feb. 11; v. 259; p. 239.
- Murray, Joseph B. and T. E., Jr., Brooklyn, N. Y. Shell for explosive projectiles. No. 1,294,143; Feb. 11; v. 259; p. 304.
- Murray, Matthew S., et al. (See Keith, Ephraim J., assignor.)
- Murray, Montford B., Albion, Mich. Casting-separating machine. No. 1,297,486; Mar. 18; v. 260; p. 436.
- Murray, Richard, New York, N. Y. Shoe-tree. No. 1,302,410; Apr. 29; v. 261; p. 923.
- Murray, Richard R., Milford, Tex. Chicken-brooder. No. 1,302,411; Apr. 29; v. 261; p. 923.
- Murray, Thomas B., Scotstoun, Scotland. Valve-operating mechanism for combustion-engines. No. 1,315,788; Sept. 9; v. 266; p. 248.
- Murray, Thomas B., Scotstoun, Scotland. Induction-passages of internal-combustion engines. No. 1,318,224; Oct. 7; v. 267; p. 108.
- Murray, Thomas E. (See Christians, George W., assignor.)
- Murray, Thomas E. (See Holmes, Henry S., assignor.)
- Murray, Thomas E., New York, N. Y. Header for water-tube boilers. No. 1,291,600; Jan. 14; v. 258; p. 401.
- Murray, Thomas E., New York, N. Y. Electric welding. No. 1,291,601; Jan. 14; v. 258; p. 401.
- Murray, Thomas E., New York, N. Y. Pipe-coupling. No. 1,291,602; Jan. 14; v. 258; p. 401.
- Murray, Thomas E., New York, N. Y. Making headers for water-tube boilers. No. 1,293,868; Feb. 11; v. 259; p. 239.
- Murray, Thomas E., New York, N. Y. Metal wheel-spoke. No. 1,293,870; Feb. 11; v. 259; p. 239.
- Murray, Thomas E., New York, N. Y. Pipe-coupling and producing the same. No. 1,293,871; Feb. 11; v. 259; p. 239.
- Murray, Thomas E., New York, N. Y. Electrically uniting metal bodies. No. 1,293,872; Feb. 11; v. 259; p. 239.
- Murray, Thomas E., New York, N. Y. Coupling-valve. No. 1,293,874; Feb. 11; v. 259; p. 240.
- Murray, Thomas E., New York, N. Y. Welding-electrode. No. 1,295,570; Feb. 25; v. 259; p. 693.
- Murray, Thomas E., New York, N. Y. Crude-oil still. No. 1,302,200; Apr. 29; v. 261; p. 882.
- Murray, Thomas E., New York, N. Y. Sheet-metal radiator. No. 1,302,201; Apr. 29; v. 261; p. 882.
- Murray, Thomas E., New York, N. Y. Pipe connection and making same. No. 1,302,412; Apr. 29; v. 261; p. 923.
- Murray, Thomas E., New York, N. Y. Pipe-coupling. No. 1,316,381; Sept. 16; v. 266; p. 374.
- Murray, Thomas E., New York, N. Y. Vehicle-wheel section of sheet metal. No. 1,316,382; Sept. 16; v. 266; p. 374.
- Murray, Thomas E., New York, N. Y. Truing and removing extruded burrs from electrically-welded work. No. 1,320,893; Nov. 4; v. 268; p. 101.
- Murray, Thomas E. and T. E., Jr., New York, N. Y. Making ogival shells. No. 1,293,873; Feb. 11; v. 259; p. 240.
- Murray, Thomas E., and E. B. Ricketts, New York, N. Y. Method of and apparatus for coking crude-oil residuum. No. 1,293,866; Feb. 11; v. 259; p. 239.
- Murray, Thomas E., and H. R. Woodrow, New York, N. Y.; said Woodrow assignor to said Murray. Electric welding-machine. No. 1,295,787; Feb. 25; v. 259; p. 742.
- Murray, Thomas E., Jr. (See Murray, Joseph B. and T. E., Jr.)
- Murray, Thomas E., Jr., Brooklyn, N. Y. Electric welding and product thereof. No. 1,293,867; Feb. 11; v. 259; p. 239.
- Murray, Thomas E., Jr., Brooklyn, N. Y. Trench-bomb. No. 1,295,569; Feb. 25; v. 259; p. 692.
- Murray, Thomas E., Jr., Brooklyn, N. Y. Electric welding. No. 1,302,413; Apr. 29; v. 261; p. 923.
- Murray, Thomas E., Jr., Brooklyn, N. Y. Producing metal tubes. No. 1,310,130; July 15; v. 264; p. 457.
- Murray, Thomas E., Jr., Brooklyn, N. Y. Electric welding apparatus. No. 1,320,894; Nov. 4; v. 268; p. 101.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Welding-electrode. No. 1,303,575; May 13; v. 262; p. 233.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Hollow projectile. No. 1,303,576; May 13; v. 262; p. 233.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Truing elongated projectile-shells. No. 1,303,577; May 13; v. 262; p. 233.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Elongated projectile-shell for smooth-bore guns. No. 1,310,129; July 15; v. 264; p. 456.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,316,383; Sept. 16; v. 266; p. 374.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,316,384; Sept. 16; v. 266; p. 374.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrical welding. No. 1,316,385; Sept. 16; v. 266; p. 374.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Uniting metal rods to metal plates. No. 1,316,386; Sept. 16; v. 266; p. 374.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electric welding apparatus. No. 1,320,895; Nov. 4; v. 268; p. 101.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Controlling electric welding-machines. No. 1,320,896; Nov. 4; v. 268; p. 102.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Apparatus for electrical welding. No. 1,320,897; Nov. 4; v. 268; p. 102.
- Murray, William A., and C. E. Putnam, Chisholm, Me. Valve. No. 1,306,156; June 10; v. 263; p. 204.
- Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Train-control system. No. 1,294,823; Feb. 18; v. 259; p. 497.
- Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Train-control system. No. 1,296,538; Mar. 11; v. 260; p. 266.
- Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Ramp and adjustable ramp-support. No. 1,301,296; Apr. 22; v. 261; p. 679.
- Murrell, Clarence E., Rockaway Beach, assignor to Research Corporation, New York, N. Y. Recovering bromine. No. 1,292,016; Jan. 21; v. 258; p. 535.
- Musa, Estoppey & Co. (See Estoppey, Georges, assignor.)
- Muschenheim, Frederick A., and F. W. Blasdale, New York, N. Y. Room-rack for hotels and the like. No. 1,307,593; June 24; v. 263; p. 536.
- Muse, James, Quincy, assignor of one-third to J. O. Black, Malden, Mass. Fluid-motor. No. 1,295,354; Feb. 25; v. 259; p. 641.
- Muse, James A., Cleburne, Tex. Acetylene-gas generator. No. 1,299,209; Apr. 1; v. 261; p. 135.
- Musil, Joseph, Cleveland, Ohio. Cuff-button. No. 1,317,722; Oct. 7; v. 267; p. 12.
- Musker, Arthur, London, England. Discharge of cargo in bulk from barges or vessels and the delivery thereof. No. 1,292,852; Jan. 28; v. 258; p. 756.
- Musker, Arthur, London, England. Apparatus for trimming and similarly distributing coal and other materials. No. 1,309,584; July 8; v. 264; p. 320.
- Musker, Arthur, London, England. Discharge of coal and the like cargo in bulk from barges or vessels, and the elevation and delivery thereof. No. 1,309,585; July 8; v. 264; p. 320.
- Muslin, Naton, New York, N. Y. Hand-bag. No. 1,301,157; Apr. 22; v. 261; p. 651.
- Motor, Gerald F., Brooklyn, N. Y. Packing. No. 1,313,201; Aug. 12; v. 265; p. 289.
- Musser, Harvey. (See Canfield, Jesse C., assignor.)
- Musser, Samuel G., Los Angeles, Calif. Centrifugal amalgamator. No. 1,317,986; Oct. 7; v. 267; p. 62.
- Mustor, Gerald F., Brooklyn, N. Y. Packing. No. 1,313,202; Aug. 12; v. 265; p. 289.
- Musy, Felix M., and M. E. Sullivan, Richmond, Va. Railway-train automatic control apparatus and system. No. 1,324,205; Dec. 9; v. 269; p. 229.
- Mutch, Phillip J., Hoboken, Pa. Jardinière-stand. No. 1,300,635; Apr. 15; v. 261; p. 503.
- Mutchnik, Henry, and H. Rudow, Baltimore, Md. Window. No. 1,297,892; Mar. 18; v. 260; p. 523.
- Muth, Herman E. (See Mallory, George P., assignor.)
- Muther, Lorenz. (See Lautenschlager, William F., assignor.)
- Muto, Tomonosuke, Kobe, assignor to Kanegafuchi Boseki Kabushiki Kwaisha, Tokyo-Fu, Japan. Producing an extract of proteolytic enzymes. No. 1,296,599; Mar. 4; v. 260; p. 175.
- Muto, Tomonosuke, Kobe, assignor to Kanegafuchi Boseki Kabushiki Kwaisha, Tokyo-Fu, Japan. Producing an extract of proteolytic enzymes. No. 1,296,600; Mar. 4; v. 260; p. 175.
- Muto, Tomonosuke, Kobe, assignor to Kanegafuchi Boseki Kabushiki Kwaisha, Tokyo-Fu, Japan. Treating silk fibers. No. 1,296,601; Mar. 4; v. 260; p. 176.
- Mutscheller, Arthur, New York, N. Y. Method used and material employed in the manufacture of X-ray or Röntgen plates, films, or papers. No. 1,315,324; Sept. 9; v. 266; p. 165.
- Mutton, Jay A., et al. (See Smith, George J., assignor.)
- Mutton, John, Cleveland, Ohio. Safety apparatus for elevators. No. 1,304,798; May 27; v. 262; p. 539.
- Muzillo, Pasquale, Brooklyn, N. Y. Gearing for spring-motor fans. No. 1,303,711; May 13; v. 262; p. 258.
- Muzzy, John, Warba, Minn. Fluid-elevating means. No. 1,301,731; Apr. 22; v. 261; p. 762.
- Muzzy, William H., Detroit, Mich. Fuel-feeding system for automobiles. No. 1,294,521; Feb. 18; v. 259; p. 428.
- Muzzy, William H., Chicago, Ill. Fuel-feeding device for automobiles. (Reissue.) No. 14,602; Mar. 4; v. 260; p. 176.
- Muzzy, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding system for automobiles. No. 1,314,971; Sept. 2; v. 266; p. 91.
- Muzzy, William H., Detroit, Mich., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding system. No. 1,325,571; Dec. 23; v. 269; p. 665.



## Alphabetical list of patentees—Continued.

- Myerberg, Isidor, *et al.* (See Wolcott, Charles M., assignor.)
- Myerberg, Samuel, *et al.* (See Wolcott, Charles M., assignor.)
- Myers, Adolph A., *et al.* (See Boyuls, Cecil H., assignor.)
- Myers, Alfred B., Gates, Oreg. Pressure-retaining valve. No. 1,312,453; Aug. 5; v. 265; p. 113.
- Myers, Ambert M., Dayton, Ohio. Vapor-generating device. No. 1,299,598; Apr. 8; v. 261; p. 251.
- Myers, Bertha B., Los Angeles, Cal. Combination-garment. No. 1,297,225; Mar. 11; v. 260; p. 352.
- Myers and Brother, F. E. (See Myers, Philip A., assignor.)
- Myers, Carlind E., Camden, N. J. Sewing-machine. No. 1,314,891; Sept. 2; v. 266; p. 77.
- Myers, Carlind E., Camden, N. J., assignor to Vibration Specialty Company, Philadelphia, Pa. Balancing appliance. No. 1,305,150; May 27; v. 262; p. 604.
- Myers, Cassius M., Springfield, Mo. Rock-picker, harrow, and potato-digger. No. 1,318,901; Oct. 14; v. 267; p. 298.
- Myers, Clyde J., assignor to Swartz Electric Company, Indianapolis, Ind. Electric-current-changing means. No. 1,306,923; June 17; v. 263; p. 381.
- Myers, Cornelius T., Detroit, Mich. Lubricating means for universal joints. No. 1,306,229; June 10; v. 263; p. 219.
- Myers, Cornelius T., Detroit, Mich. Bracket for automobiles or similar vehicles. No. 1,314,689; Sept. 2; v. 266; p. 41.
- Myers, Elmer E. (See Donaldson, Bloxson, and Brooks, assignors.)
- Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Pump-coupling or the like. No. 1,297,719; Mar. 18; v. 260; p. 487.
- Myers, Frank J. (See Johnson, Paschal B., assignor.)
- Myers, Frederick, New York, N. Y., assignor to Myers Phonograph Corporation. Gramophone-cabinet cover. No. 1,326,771; Dec. 30; v. 269; p. 826.
- Myers, George E., Buffalo, assignor to Submarine Arms Corporation, New York, N. Y. Torpedo. No. 1,295,355; Feb. 25; v. 259; p. 642.
- Myers, George W., Philadelphia, Pa. Spark-plug. No. 1,317,663; Sept. 30; v. 266; p. 700.
- Myers, Harold L., Morristown, N. J. Paper box. No. 1,310,765; July 22; v. 264; p. 604.
- Myers, Jacob E., Seattle, Wash. Nut-tightening device. No. 1,302,830; May 6; v. 262; p. 66.
- Myers, Jacob S., Hagerstown, Md. Wagon hay-rack. No. 1,296,207; Mar. 4; v. 260; p. 90.
- Myers, John E. (See Leonard and Myers.)
- Myers, John E., Steubenville, Ohio. Warning-signal. No. 1,316,318; Sept. 16; v. 266; p. 362.
- Myers, John F., Canyon City, Colo., assignor to The New Jersey Zinc Company, New York, N. Y. Flotation apparatus. No. 1,323,373; Dec. 2; v. 269; p. 29.
- Myers, John M., Yonkers, N. Y. Adding-machine cabinet. No. 1,308,441; July 1; v. 264; p. 79.
- Myers, John W., Des Moines, Iowa. Reclining-seat. No. 1,301,488; Apr. 22; v. 261; p. 716.
- Myers, Lewis C. (See Hess and Meyers.)
- Myers, Lewis C., Brooklyn, assignor to Royal Typewriter Company, Inc., New York, N. Y. Tabulating mechanism for type-writing machines. No. 1,306,832; June 17; v. 263; p. 364.
- Myers, Lewis C., Brooklyn, assignor to Royal Typewriter Company, Inc., New York, N. Y. Type-writing machine. No. 1,324,167; Dec. 9; v. 269; p. 222.
- Myers, Lloyd D., Minneapolis, Minn. Dispensing-receptacle. No. 1,294,299; Feb. 11; v. 259; p. 339.
- Myers, Louis, assignor to Crystal Alloys Corporation, Detroit, Mich. Comb. No. 1,308,857; July 8; v. 264; p. 184.
- Myers, Maurice D., Tower, Mich. Railway-spike. No. 1,320,085; Oct. 28; v. 267; p. 571.
- Myers, Milton A., *et al.* (See Boyuls, Cecil H., assignor.)
- Myers, Morton E., and M. A. J. Harper, New York, N. Y. Cinematograph-machine. No. 1,302,579; May 6; v. 262; p. 18.
- Myers, Morton E., and M. A. J. Harper, New York, N. Y. Cinematograph-machine. No. 1,307,984; June 24; v. 263; p. 608.
- Myers, Parke G. (See Wertz and Myers.)
- Myers, Perin J., assignor to Jeffersonville Manufacturing Company, Jeffersonville, Ind. Gromet-punch. No. 1,299,210; Apr. 1; v. 261; p. 135.
- Myers, Perry E., Monroe City, Ind. Hinge. No. 1,313,411; Aug. 19; v. 265; p. 344.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Pump. No. 1,320,784; Nov. 4; v. 268; p. 80.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Spray-gun. No. 1,322,932; Nov. 25; v. 268; p. 650.
- Myers Phonograph Corporation. (See Myers, Frederick, assignor.)
- Myers, Robert R., assignor to Capital City Printing Plate Company, Des Moines, Iowa. Blackleading-machine. No. 1,296,839; Mar. 11; v. 260; p. 268.
- Myers, Roy R., Chicago, Ill. Device for oiling handsaws. No. 1,314,420; Aug. 26; v. 265; p. 571.
- Myers, Stanley L., Berkeley, Calif. Hairpin. No. 1,321,322; Nov. 11; v. 268; p. 246.
- Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Universal-feed embroidering-machine. No. 1,325,033; Dec. 16; v. 269; p. 447.
- Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Trimming-supply-controlling device for embroidering-machines. No. 1,325,034; Dec. 16; v. 269; p. 447.
- Myers, William, Philadelphia, Pa. Toy. No. 1,299,377; Apr. 1; v. 261; p. 172.
- Myers, Winter W., Brooklyn, assignor to Austral Window Company, New York, N. Y. Adjuster for balanced windows. No. 1,314,892; Sept. 2; v. 266; p. 77.
- Myerson, Simon, Cambridge, Mass. Making seamless stemmed metal plates. No. 1,308,251; July 1; v. 264; p. 45.
- Myerson, Simon, Cambridge, Mass. Artificial tooth. No. 1,320,337; Oct. 28; v. 267; p. 618.
- Myette, Edward, Manchester, Wash. Street-car indicator. No. 1,321,234; Nov. 11; v. 268; p. 229.
- Mylchreest, John J., Middletown, Conn. Toilet-paper holder. No. 1,326,085; Dec. 23; v. 269; p. 660.
- Mylchreest, Thomas G., and W. Brown, Leeds, England. Machine for the preparation of flax, jute, hemp, and similar fibers for spinning. No. 1,294,693; Feb. 18; v. 259; p. 467.
- Myles, William, Bradwardine, Manitoba, Canada. Apparatus for drawing automobiles out of mud-holes. No. 1,293,875; Feb. 11; v. 259; p. 240.
- Mylius, Walter G. (See Bradshaw and Mylius.)
- Myres, Presley, Sacramento, Calif. Expansion-brush. No. 1,303,365; May 13; v. 262; p. 195.
- Myrick, John M., Youngstown, Ohio. Insecticide or compound for destroying cotton boll-weevil. No. 1,313,724; Aug. 19; v. 265; p. 404.
- Myrup, Alfred Z., Racine, Wis. Camera. No. 1,299,992; Apr. 8; v. 261; p. 339.
- Myrskow, Theodore, Detroit, Mich. Bomb. No. 1,291,683; Jan. 14; v. 258; p. 421.
- N. Barstow Company. (See Fingler and Sturtevant, assignors.)
- N. N. Hill Brass Co., The. (See Arnold, Albert C., assignor.)
- N. N. Hill Brass Co., The. (See Hill, Norman, N., assignor.)
- Naab, George F., Lakewood, and H. Prell, East Cleveland, assignors to The Naab Manufacturing Company, Cleveland, Ohio. Blowpipe. No. 1,317,638; Sept. 30; v. 266; p. 696.
- Naab Manufacturing Company, The. (See Naab and Prell, assignors.)
- Naamlooze Vennootschap Anton Jurgens Vereenigde Fabriken. (See Monhaupt, Max, assignor.)
- Naamlooze Vennootschap De Nederlandsche Thermo-Telefoon Maatschappij. (See De Lange and Van Lynden, assignors.)
- Naamlooze Vennootschap Geveke & Co.'s Technisch Bureau. (See Geveke, Hendrik L., assignor.)
- Naamlooze Vennootschap Glasfabriek Leerdam. (See Peeters, Alexander F., assignor.)
- Naamlooze Vennootschap de Nederlandsche Thermo-Telefoon Maatschappij. (See Van Lynden, Robert A., assignor.)
- Naamlooze Vennootschap Octrooi Maatschappij "Holland" tot exploitatie van Uitvindingen. (See Boerner, Arno, assignor.)
- Naamlooze Vennootschap "Pinlock" Maatschappij tot exploitatie vandeveiligheidsmoer volgens de Buiten-Europese Patenten "Systeem van der Valk en van Eck." (See Goedhart, Jan G. A., assignor.)
- Naamlooze Vennootschap Weduwe J. Ahrend & Zoon's Industrie en Handels-Vereeniging. (See Koechlin, Emile R., assignor.)
- Nadeau, Michel, Auburn, and A. Bouvier, Lewiston, Me. Check for looms. No. 1,315,388; Sept. 9; v. 266; p. 177.
- Naegelen, Charles. (See Schmidt, Naegelen, and Kornmann.)
- Naery, John S., La Fayette, Ind. Friction draft-gear for railway-cars. No. 1,303,943; May 20; v. 262; p. 339.
- Naftzger, Charles F. (See Hunter, Ross, assignor.)
- Nagashima, Hajime, Tapanee, Nanshinsenkel Sairi, Tainan, Formosa, assignor to Tainan Seito Kabushiki Kaisha, Tokyo, Japan. Manufacturing sulfid dye from filter-cakes of sugar-juice. No. 1,308,552; July 1; v. 264; p. 99.
- Nagayana, Tsunetaro, Hilo, Hawaii. Door-alarm. No. 1,326,283; Dec. 30; v. 269; p. 734.
- Nagel, Charles A. (See Zahm and Nagel.)
- Nagle, Harold J., assignor, by mesne assignments, to Cedaroid Co., Inc., Rochester, N. Y. Box for cigars. No. 1,319,788; Oct. 28; v. 267; p. 515.
- Nagle, Matilda, Brooklyn, N. Y. Dyeing-machine. No. 1,293,514; Feb. 4; v. 259; p. 126.
- Nagle, William E., Pittsburgh, Pa. Tool. No. 1,314,690; Sept. 2; v. 266; p. 41.
- Nagle, William S. (See Farnum, Edward J., assignor.)
- Nagelsaker, Hans, Great Falls, Mont. Nest-box for hens. No. 1,305,736; June 3; v. 263; p. 96.



- Nagrabski, Jakub, Waterbury, Conn. Clothes-hanger. No. 1,308,605; July 1; v. 264; p. 109.
- Nagy, Andrew, Elizabeth, N. J. Spring-wheel. No. 1,324,131; Dec. 9; v. 269; p. 215.
- Nagy, Paul. (See Papp and Nagy.)
- Nagy, Stephen A., Detroit, Mich. Machine for making soft-metal wire. No. 1,291,603; Jan. 14; v. 258; p. 402.
- Nahas, Massoud, Akron, Ohio. Shade-holder and curtain-pole support. No. 1,299,993; Apr. 8; v. 261; p. 339.
- Nahemow, Louis, New York, N. Y. Automatic illuminating device for talking-machines. No. 1,319,354; Oct. 21; v. 267; p. 410.
- Naintean, John B., assignor to United States Spindle Company, Woonsocket, R. I. Spindle. No. 1,293,165; Feb. 4; v. 259; p. 44.
- Nairn Linoleum Company, The. (See Joule, William, assignor.)
- Naismith, John A. (See Ostenberg, Pontus, assignor.)
- Naito, Gengo, Toppenish, Wash. Cutting attachment for roll-paper holders. No. 1,298,081; Mar. 25; v. 260; p. 589.
- Nakamizo, Hirotune T., Los Angeles, Calif. Disappearing bow-stem and shackle. No. 1,300,187; Apr. 8; v. 261; p. 382.
- Nakamizo, Hirotune T., Los Angeles, Calif. Self-heating container. No. 1,309,418; July 8; v. 264; p. 288.
- Nakamura, Goken. (See Inoue, Heisaburo, assignor.)
- Nakamura, Yoshizumi, assignor to Nippon Sen-I Kogyo Kabushiki Kaisha, Tokyo, Japan. Removing mineral matter from paper. No. 1,318,902; Oct. 14; v. 267; p. 298.
- Nalewaja, Albin T., Los Angeles, Calif. Neck-form device. No. 1,301,489; Apr. 22; v. 261; p. 716.
- Nalline, Victor H., Brussels, Belgium. Elastic wheel. No. 1,292,357; Jan. 21; v. 258; p. 618.
- Nall, Edith A., executrix. (See Nall, Edward.)
- Nall, Edward, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Making tires. No. 1,316,104; Sept. 16; v. 266; p. 321.
- Nall, Edward, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Apparatus for building up cord blankets for pneumatic tires. No. 1,317,664; Sept. 30; v. 266; p. 701.
- Nall, Edward, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Apparatus for attaching tire-bases to rims. No. 1,317,887; Oct. 7; v. 267; p. 43.
- Nall, Edward, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Rubber-slicing machine. No. 1,319,301; Oct. 21; v. 267; p. 399.
- Nall, Edward, deceased; E. A. Nall, executrix, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method and machine for manufacture of asbestos gaskets. No. 1,307,788; June 24; v. 263; p. 571.
- Nall, Edward, deceased, Akron; E. A. Nall, Cuyahoga Falls, executrix, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Multiple vulcanizing-press. No. 1,316,105; Sept. 16; v. 266; p. 321.
- Namolick, Joseph, Scranton, Pa. Window-frame. No. 1,321,769; Nov. 11; v. 268; p. 330.
- Nance, Reizeman R., Frederick, Okla. Framing-guide. No. 1,295,788; Feb. 25; v. 259; p. 742.
- Nantz, John H., Samson, Ala. Refrigerator. No. 1,313,552; Aug. 19; v. 265; p. 371.
- Narber, Simon D., Marshalltown, Iowa. Soap-holder. No. 1,312,420; Aug. 5; v. 265; p. 106.
- Nardi, Romolo, Camden, N. J. Magazine-pencil. No. 1,304,590; May 27; v. 262; p. 500.
- Nardi, Romolo, Camden, N. J. Door check or stop. No. 1,317,888; Oct. 7; v. 267; p. 43.
- Naruszewicz, Konstanty, Chicago, Ill. Caster. No. 1,312,863; Aug. 12; v. 265; p. 223.
- Naruszewicz, Wladyslaw, North Andover, Mass. Swimming-glove. No. 1,299,007; Apr. 1; v. 261; p. 90.
- Nase, Allen, Joplin, Mo. Boat-propelling means. No. 1,302,951; May 6; v. 262; p. 90.
- Nash, Alexander Q., Kansas City, Mo. Horizontal oil-burner. No. 1,303,578; May 13; v. 262; p. 233.
- Nash, Alexander Q., St. Louis, Mo. Gas-saving device for internal-combustion engines. No. 1,320,407; Nov. 4; v. 268; p. 10.
- Nash, Alexander Q., Kansas City, Mo. Spring system for vehicles. No. 1,325,489; Dec. 16; v. 269; p. 532.
- Nash, Charles H., Ravenna, Ohio. Trap. No. 1,297,893; Mar. 18; v. 260; p. 524.
- Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Draft-gear yoke. No. 1,292,358; Jan. 21; v. 258; p. 618.
- Nash Engineering Company. (See Jennings, Irving C., assignor.)
- Nash, George H., Sidecup, and B. B. Grace, Upminster, England, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-handset. No. 1,298,771; Apr. 1; v. 261; p. 36.
- Nash, Guy M., Haverhill, Mass., assignor to The Singer Manufacturing Company. Stay-guiding attachment for sewing-machines. No. 1,317,889; Oct. 7; v. 267; p. 44.
- Nash, Harry, Wilkes-Barre, Pa. Carbide-gas generator. No. 1,291,604; Jan. 14; v. 258; p. 402.
- Nash, John, Bellingham, Wash. Drawing instrument. No. 1,315,679; Sept. 9; v. 266; p. 228.
- Nash, Lewis H., South Norwalk, Conn. Flying and operating flying-machines. No. 1,294,361; Feb. 11; v. 259; p. 354.
- Nash Tractor Company, The. (See Nash, William, assignor.)
- Nash, William, assignor to The Nash Tractor Company, Denver, Colo. Tractor. No. 1,325,853; Dec. 23; v. 269; p. 618.
- Nash, William F., Kenil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Recovering solvent from colloided nitrocellulose. No. 1,293,515; Feb. 4; v. 259; p. 126.
- Nasi, Pasquale, New Kensington, Pa. Milk-receptacle. No. 1,306,971; June 17; v. 263; p. 389.
- Naslin, John O., Seattle, Wash. Door-closing device. No. 1,318,903; Oct. 14; v. 267; p. 298.
- Nason, George B., assignor to Champion Spark Plug Company, Toledo, Ohio. Display-cabinet. No. 1,313,498; Aug. 19; v. 265; p. 361.
- Nässén, John F., Spangå, assignor of two-thirds to A. Lindahl, Stockholm, Sweden. Log and the like. No. 1,319,241; Oct. 21; v. 267; p. 389.
- Nater, John, West Hoboken, N. J. Manufacture of embroidery. No. 1,315,148; Sept. 2; v. 266; p. 123.
- Nathan, Frederic L., W. Rintoul, and F. Baker, deceased, Stevenston, Scotland; H. Baker, administrator, Eton, Windsor, England; assignors to Nobel's Explosives Company, Limited, Glasgow, Scotland. Preparing gelatinized propellant explosives. No. 1,302,202; Apr. 29; v. 261; p. 882.
- Nathan Manufacturing Company. (See Davies, Francis, assignor.)
- Nathan Manufacturing Company. (See Hard, Malcolm, assignor.)
- Nathan, Max, New York, N. Y. Display device. No. 1,294,522; Feb. 18; v. 259; p. 428.
- Nathanson, William. (See Emmerman and Nathanson.)
- National-Acme Company, The. (See Cone, Frank L., assignor.)
- National-Acme Company, The. (See Drissner, Alfred E., assignor.)
- National-Acme Company, The. (See Drissner, Glosch, Henn, Smith, and Stern, assignors.)
- National Acme Company, The. (See Rindfleisch, Benjamin F., assignor.)
- National Acme Company. (See Smith, Oscar A., assignor.)
- National Acme Company, The. (See Smith and Rindfleisch, assignors.)
- National Aluminum Works. (See Serio, Philip H., assignor.)
- National Auto Wheels Corporation. (See Philipp, Michael, assignor.)
- National Automatic Machine Company. (See Skerry, Clarence E., assignor.)
- National Bank of Commerce in St. Louis, Mo., et al., executors. (See Hubert, Henry J., assignor.)
- National Binding Machine Company. (See McLaurin, James D., assignor.)
- National Binding Machine Company. (See Rideout, Arthur E., assignor.)
- National Biscuit Company. (See Davidson, Frank B., assignor.)
- National Biscuit Company. (See Fogg, Herbert T., assignor.)
- National Biscuit Company. (See Fogg and Ferrall, assignors.)
- National Biscuit Company. (See Frand, Samson, assignor.)
- National Biscuit Company. (See Mace, Alfred C., assignor.)
- National Biscuit Company. (See Powell and Miracky, assignors.)
- National Biscuit Company. (See Tomlinson and Hungerford, assignors.)
- National Biscuit Company. (See Weston, Edward B., assignor.)
- National Brass Co. (See Blye, Harold, assignor.)
- National Bundle Tyer Company. (See Saxton and Bachmayer, assignors.)
- National Carbon Company. (See Benedict, Bernard, assignor.)
- National Carbon Company. (See Benner and French, assignors.)
- National Carbon Company. (See Casella, Secondo L., assignor.)
- National Carbon Company. (See Chaney, Newcomb K., assignor.)
- National Carbon Company. (See Chase, Wallace S., assignor.)
- National Carbon Company. (See Clark, Emerson L., assignor.)
- National Carbon Company. (See Ellis, Carleton, assignor.)
- National Carbon Company. (See Erwin, Raymond W., assignor.)
- National Carbon Company. (See French, Harry F., assignor.)
- National Carbon Company. (See French and Benner, assignors.)
- National Carbon Company. (See Gillette, John C., assignor.)



*Alphabetical list of patentees—Continued.*

- National Carbon Company. (See Hazelett, Clarence W., assignor.)
- National Carbon Company. (See Hills, Leon B., assignor.)
- National Carbon Company. (See Hinckley, Arthur T., assignor.)
- National Carbon Company. (See Holmes, Major E., assignor.)
- National Carbon Company. (See Kaplan, Morduch L., assignor.)
- National Carbon Company. (See Kipniss and Neumann, assignors.)
- National Carbon Company. (See Le Baron, Wilbur D., assignor.)
- National Carbon Company. (See Loveman, William R., assignor.)
- National Carbon Company. (See Mott, William R., assignor.)
- National Carbon Company. (See Penn, Thomas G., assignor.)
- National Carbon Company. (See Shaw, William, assignor.)
- National Carbon Company. (See Spencer, Thomas, assignor.)
- National Carbon Company. (See Wacker, George W., assignor.)
- National Carbon Company. (See Wells, Alfred A., assignor.)
- National Cash Register Company, The. (See Bauwell and Phillips, assignors.)
- National Cash Register Company, The. (See Carroll, Thomas, assignor.)
- National Cash Register Company, The. (See Carroll and Lockyer, assignors.)
- National Cash Register Company, The. (See Dorsey and Kirshner, assignors.)
- National Cash Register Company, The. (See Forth, Charles, assignor.)
- National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
- National Cash Register Company, The. (See Goldberg, Maximilian M., assignor.)
- National Cash Register Company, The. (See Lee, Charles L., assignor.)
- National Cash Register Company, The. (See Martin, Haakon A., assignor.)
- National Cash Register Company, The. (See Skerl, Francesco, assignor.)
- National Cash Register Company, The. (See Von Pein, Edward J., assignor.)
- National Cash Register Company, The. (See Werner, John A., assignor.)
- National Chain Company, The. (See Appleton, Wallace N., assignor.)
- National Chronograph Company. (See Ryberg, Charles J., assignor.)
- National Clasp Co. (See Planchenault, Alexandre G., assignor.)
- National Clutch Company. (See Sundh, August, assignor.)
- National Company. (See Balcke and Ready, assignors.)
- National Dump Car Co. (See Hart, Harry S., assignor.)
- National Drop Head Projector Company. (See McMillan, Frank, assignor.)
- National Electro Products. (See MacDougall, Archibald J., assignor.)
- National Equipment Company. (See Bausman, Alonzo L., assignor.)
- National Equipment Company. (See Pagliuca, Antonio, assignor.)
- National Explosive Corporation. (See Brown, James, assignor.)
- National Fire Proofing Co. (See Keasbey, Rowland P., assignor.)
- National Fireproofing Company. (See Fritzinger, John H., assignor.)
- National Gauge & Equipment Company. (See Axen, John L., assignor.) (Reissue.)
- National Hat Lining Company. (See Rybeck and Wolf, assignors.)
- National India Rubber Company. (See Jury, Alfred E., assignor.)
- National Lock-In-Tank Company, The. (See Klopfenstein and Briar, assignors.)
- National Machinery Co., The. (See Clouse, William L., assignor.)
- National Magnesia Manufacturing Company. (See Grunwald, Bertrand B., assignor.)
- National Malleable Castings Company, The. (See Blackmore, William, assignor.)
- National Malleable Castings Company, The. (See Brooks and Schmidt, assignors.)
- National Malleable Castings Company, The. (See Byers, Jacob J., assignor.)
- National Malleable Castings Company, The. (See Knadler, Frederick, assignor.)
- National Malleable Castings Company, The. (See Schmidt, Ernest H., assignor.)
- National Malleable Castings Company, The. (See Schmidt and Brooks, assignors.)
- National Manufacturing Company, The. (See Ferris, Walton C., assignor.)
- National Manufacturing and Specialty Company. (See Scott and Hug, assignors.)
- National Marking Machine Co., The. (See Layman, Elitha F., assignor.)
- National Marking Machine Company, The. (See Tyner, Richard H., assignor.)
- National Metal Molding Company. (See Farnham, Frederick F., assignor.)
- National Metal Molding Company. (See Hubbard and Cooper, assignors.)
- National Metal Molding Company. (See Knoderer and Hubbard, assignors.)
- National Metal Seal Corporation. (See Doldt, John E., assignor.)
- National Metal Seal Corporation. (See Rivers, Benjamin W., assignor.)
- National Metal Seal Corporation. (See Stone, William F., assignor.)
- National Motor Car & Vehicle Corporation. (See Wall, William G., assignor.)
- National Novelty Company. (See Tornsjö, Gustaf E., assignor.)
- National Oil Company, The. (See Daugherty, Alvin A., assignor.)
- National Oil & Equipment Corporation. (See Carden, David A., assignor.)
- National Paper Can Company. (See Hulbert, Edwin F., assignor.)
- National Paper Products Co. (See Bartlett, George H., assignor.)
- National Pie Crust Company *et al.* (See Willcox, Lealand C., assignor.)
- National Pneumatic Company. (See Casey, Thomas W., assignor.)
- National Pneumatic Company. (See Forman, Paris R., assignor.)
- National Pneumatic Company. (See Johnson, Frank, assignor.)
- National Pneumatic Company. (See Rowntree, Harold, assignor.)
- National Police Signal Company. (See Bauer, Gustav F. C., assignor.)
- National Pressed Steel Company, The. (See Townsend, Arthur J., assignor.)
- National Refining Company. (See Cooke, Richard T., assignor.)
- National Refining Company, The. (See Setzler, Horace B., assignor.)
- National Regulator Company. (See Larson, John M., assignor.)
- National Ring Traveler Co. (See Rohland, Curt J., assignor.)
- National Safety Appliance Company. (See Folker, Howard S., assignor.)
- National Safety Appliance Company, The. (See Levin, Walter S., assignor.)
- National Shorthand Machine Company. (See Ireland, Ward S., assignor.)
- National Shorthand Machine Company. (See Ireland and Lippert, assignors.)
- National Store Specialty Company, The. (See Pritchard, William C., assignor.)
- National Supply Company, The. (See Stewart, Andrew M., assignor.)
- National Supply Company, The. (See Wright, Clyde S., assignor.)
- National Surface Guard Company. (See Hatley, Charles F., assignor.)
- National Surface Guard Company. (See Zimmerman, Clarence C., assignor.)
- National Tractor and Plow Company. (See Carpenter, Alexander, assignor.)
- National Tube Company. (See Baines, Joseph E., assignor.)
- National Tube Company. (See Boyd and Saunders, assignors.)
- National Tube Company. (See Bristol, Chester L., assignor.)
- National Tube Company. (See Hazeltine, Benjamin P., assignor.)
- National Tube Company. (See Latshaw, Joseph W., assignor.)
- National Tube Company. (See McCulloch, John A., assignor.)
- National Urn Bag Manufacturing Co. (See Hirschhorn, Benjamin, assignor.)
- National Veneer Products Company. (See Stevenson, Charles R., assignor.)
- National Wire Wheel Works. (See Ringling and Greenlee, assignors.)
- National X-Ray Reflector Co. (See Curtis, Augustus D., assignor.)
- National X-Ray Reflector Co. (See Hotchkin, Paul M., assignor.)
- National X-Ray Reflector Co. (See McKinnie, Earle C., assignor.)
- National Wire Wheel Works. (See Greenlee, George, assignor.)
- National Wrapping Machine Corporation. (See Page, Clarence C., assignor.)
- Natterstade, John. Sioux City, Iowa. Plow. No. 1,293,876; Feb. 11: v. 259; p. 240.



Natural Movement Arm and Appliance Company. (See Norfolk, Joseph R. B., assignor.)

Nau, Frank L., Crookston, Minn. Hiller. No. 1,319,607; Oct. 21; v. 267; p. 458.

Nau, Frank L. and H. D., Crookston, Minn. Potatohiller. No. 1,296,840; Mar. 11; v. 260; p. 267.

Nau, Harry D. (See Nau, Frank L. and H. D.)

Naughton, John J., Peekskill, N. Y. Time-controlled stove-lighter. No. 1,314,354; Aug. 26; v. 265; p. 558.

Naugle, Harry M. (See Townsend and Naugle.)

Naugler, Walter E., Boston, assignor of one-fourth to E. F. Allen, Medford, Mass. Creasing paper-board and the like. No. 1,302,831; May 6; v. 262; p. 66.

Naul, James M., Plainfield, N. J., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electric switch. No. 1,320,704; Nov. 4; v. 268; p. 64.

Navin, Frank, Salt Lake City, Utah. Separating the petroleum contents from petroleum-bearing sands or shale. No. 1,312,266; Aug. 5; v. 265; p. 76.

Navratil, Frank, Kealy Springs, Saskatchewan, Canada. Connection-bar. No. 1,296,105; Mar. 4; v. 260; p. 66.

Navrot, Stanley, Heilwood, Pa. Fly-trap. No. 1,297,894; Mar. 18; v. 260; p. 524.

Navrot, Stanley, Heilwood, Pa. Boiler construction. No. 1,309,955; July 15; v. 264; p. 426.

Nawn, Phil J., Milwaukee, Wis. Rod-packing. No. 1,320,567; Nov. 4; v. 268; p. 39.

Nawrath, Robert, Newark, N. J. Press. No. 1,299,501; Apr. 8; v. 261; p. 229.

Naylor, Carl G., Chicago, Ill. Expandable mandrel. No. 1,296,106; Mar. 4; v. 260; p. 66.

Naylor, James, Arlington, N. J. Steam-condenser. No. 1,306,273; June 10; v. 263; p. 229.

Naylor, James, Arlington, N. J. Motor. No. 1,323,542; Dec. 2; v. 269; p. 60.

Naylor, Walter E. (See Greising and Naylor.)

Nazarian, John, Paterson, N. J. Cigar-cutter and match-dispenser. No. 1,292,853; Jan. 28; v. 258; p. 756.

Nazarian, John, Paterson, N. J. Match-dispensing machine. No. 1,294,824; Feb. 18; v. 259; p. 498.

Neahr, Jacob E., New York, N. Y. Match-igniting device. No. 1,301,158; Apr. 22; v. 261; p. 651.

Neahr, Will C., assignor to The Protective Signal Manufacturing Company, Denver, Colo. Electrical-signal flasher. No. 1,310,766; July 22; v. 264; p. 604.

Neal, Alton V., Hurlock, Md. Filling-machine. No. 1,300,758; Apr. 15; v. 261; p. 530.

Neal, De Courcy, Detroit, Mich., assignor to Morgan & Wright. Reeling-machine. No. 1,315,526; Sept. 9; v. 266; p. 202.

Neal, Joseph A., Crichton, Ala. Lumber-buggy. No. 1,324,060; Dec. 9; v. 269; p. 202.

Neal, Spencer G., Los Angeles, Calif., assignor, by mesne assignments, to Automatic Straight Air Brake Company, Wilmington, Del. Triple valve for air-brake apparatus. No. 1,314,972; Sept. 2; v. 266; p. 91.

Neal, Spencer G., New York, N. Y., assignor, by mesne assignments, to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. No. 1,314,973; Sept. 2; v. 266; p. 92.

Neal, Spencer G., New York, N. Y., assignor, by mesne assignments, to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. No. 1,314,974; Sept. 2; v. 266; p. 92.

Neal, Spencer G., New York, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake system. No. 1,314,975; Sept. 2; v. 266; p. 92.

Neal, Spencer G., New York, N. Y., assignor, by mesne assignments, to Automatic Straight Air Brake Company, Wilmington, Del. Change-over valve for air-brake apparatus. No. 1,314,976; Sept. 2; v. 266; p. 92.

Neal, Spencer G., New York, N. Y., assignor, by mesne assignments, to Automatic Straight Air Brake Company, Wilmington, Del. Air-retaining valve for air-brake apparatus. No. 1,314,977; Sept. 2; v. 266; p. 93.

Neal, Spencer G., New York, N. Y., assignor, by mesne assignments, to Automatic Straight Air Brake Company, Wilmington, Del. Air-brake apparatus. No. 1,326,211; Dec. 30; v. 269; p. 721.

Neal, Walter V. (See Eppler and Neal.)

Neal, William C., Abilene, Tex. Clothes-pin. No. 1,296,841; Mar. 11; v. 260; p. 267.

Neal, William H., London, England. Pipe for regulating the smoking of tobacco. No. 1,297,895; Mar. 18; v. 260; p. 524.

Neale, William W., Relay, Md., assignor to American Arch Company, New York, N. Y. Locomotive fire-box. No. 1,317,810; Oct. 7; v. 267; p. 28.

Neale, Robert M. (See Nelson, Lewis D., assignor.)

Nealy, Elias C. and R. Shubta, Miss. Plow. No. 1,323,088; Nov. 25; v. 268; p. 680.

Nealy, Resier. (See Nealy, Elias C. and R.)

Neames, Maurice A., Gramercy, La. Protective covering or casing for pipes. No. 1,322,330; Nov. 18; v. 268; p. 485.

Nearing, Frank, New York, N. Y. Automobile dumping-truck adaptable for purposes of hoisting. No. 1,320,024; Oct. 28; v. 267; p. 560.

Neben, Emil T., Ridgewood, assignor to Neben Manufacturing Company, Jersey City, N. J. Making multicolor-printed paper. No. 1,308,098; July 1; v. 264; p. 17.

Neben Manufacturing Company. (See Neben, Emil T., assignor.)

Neckerman, William M., Youngstown, Ohio. Pipe-making apparatus. No. 1,312,197; Aug. 5; v. 265; p. 65.

Neederman, Stephen A., Los Angeles, Calif. Mechanical toy. No. 1,322,462; Nov. 18; v. 268; p. 511.

Needham, Frank M. (See Leeds, Loring L., assignor.)

Needham, Guy E., Tracy, Calif. Retaining means for plowshares. No. 1,300,453; Apr. 15; v. 261; p. 465.

Needham, Houghton L., Chicago, Ill. Boiler-tube cleaner. No. 1,313,725; Aug. 19; v. 265; p. 404.

Needham, John T., Bayonne, N. J. Rotary blower. No. 1,315,233; Sept. 9; v. 266; p. 149.

Needham, John T., Bayonne, N. J. Rotary blower. No. 1,315,234; Sept. 9; v. 266; p. 149.

Needham, William H., assignor to Boston Pressed Metal Co., Worcester, Mass. Skate-key. No. 1,322,331; Nov. 18; v. 268; p. 486.

Neef, William, Pocatello, Idaho. Baking-pan. No. 1,296,423; Mar. 4; v. 260; p. 136.

Neely, Samuel L., Longton, Kans. Grade-crossing signal. No. 1,299,854; Apr. 8; v. 261; p. 310.

Neely, Samuel L., Longton, Kans. Signal-operating and collision-preventing apparatus. No. 1,306,833; June 17; v. 263; p. 364.

Nees, Milton L., New Ross, Ind. Vehicle-track for public highways. No. 1,301,490; Apr. 22; v. 261; p. 716.

Neesham, John B., Glasgow, Scotland. Molding-machine for foundry use. No. 1,318,101; Oct. 7; v. 267; p. 83.

Neeson, Charles R., New Rochelle, assignor to De La Vergne Machine Company, New York, N. Y. Gas-compressor. No. 1,299,211; Apr. 1; v. 261; p. 135.

Neff, Abner R., assignor to Paschal Tool Company, Long Beach, Calif. Milling attachment for lathes. No. 1,299,759; Apr. 8; v. 261; p. 289.

Neff, Adolph A., Chicago, Ill. Internal-combustion-engine construction. No. 1,296,686; Mar. 11; v. 260; p. 231.

Neff, Edward D., Marysville, Pa. Spot-light for guns. No. 1,315,389; Sept. 9; v. 266; p. 178.

Neff, George W. B., and E. A. Jenkins, Sandy, Utah. Composition for the manufacture of dry cells. No. 1,305,485; June 3; v. 263; p. 48.

Neff, John, Sr., West Hoboken, N. J. Airship. No. 1,298,082; Mar. 25; v. 260; p. 589.

Neff, Omar F., Milford, Ind. Smoke-house. No. 1,302,952; May 6; v. 262; p. 90.

Neff, Robert C., Brooklyn, assignor to C. F. Boker, New York, N. Y. Nailing-machine. No. 1,304,900; May 27; v. 262; p. 558.

Neff, Robert C., Brooklyn, assignor to C. F. Boker, New York, N. Y. Box-making machine. No. 1,305,398; June 3; v. 263; p. 32.

Neff, William P., et al. (See Miller, Joseph W., assignor.)

Negrescou, John, Chicago, Ill. Clutch. No. 1,307,830; June 24; v. 263; p. 579.

Negus, James D., Douglas, Wyo. Railway-track construction. No. 1,299,760; Apr. 8; v. 261; p. 289.

Negus, Norman E., and O. F. Maidment, Stanmore, near Sydney, New South Wales, Australia. Combination article of furniture for children's use. No. 1,326,415; Dec. 30; v. 269; p. 759.

Nehman, Michael, Detroit, Mich. Cork-extractor. No. 1,293,516; Feb. 4; v. 259; p. 127.

Nehrke, Charles, assignor to F. P. Mansbendel, Brooklyn, N. Y. Massage apparatus. No. 1,308,805; July 8; v. 264; p. 174.

Neider, Fred A., deceased, Augusta, Ky.; Carr Fastener Company, Cambridge, Mass., assignee. Vehicle-curtain fastener. (Reissue.) No. 14,626; Apr. 1; v. 261; p. 181.

Neidhart, William J., Mansfield, and H. High, Marion, Ohio. Vehicle-lock. No. 1,319,609; Oct. 21; v. 267; p. 459.

Neidhammer, Clyde, Lemoyne, Pa. Hasp for dinner-pails and the like. No. 1,315,568; Sept. 9; v. 266; p. 209.

Neidich, Samuel A. (See Vannote and Neidich.)

Neld, William J., New Britain, Conn. Door check and closer. No. 1,291,605; Jan. 14; v. 258; p. 402.

Neighbour, Arthur G. L. and H. C. W., Brighton, Victoria, Australia. Internal-combustion engine. No. 1,290,297; Jan. 7; v. 258; p. 69.

Neighbour, Harry C. W. (See Neighbour, Arthur G. L. and H. C. W.)

Neiglick, Charles G., Chicago, Ill. Hose-band. No. 1,305,737; June 3; v. 263; p. 96.

Neikirk, John O., Lombard, Ill., assignor to Rodger Ballast Car Company. Center and side dump car. No. 1,299,212; Apr. 1; v. 261; p. 135.

Neikirk, John O., Lombard, Ill. Railway-car. No. 1,308,442; July 1; v. 264; p. 79.

Neikirk, John O., Lombard, Ill. Railway-car. No. 1,325,572; Dec. 23; v. 269; p. 565.

Neill, Cecil T., Lead, S. D. Nursing-bottle holder. No. 1,292,631; Jan. 28; v. 258; p. 705.

Neill, Joseph B., Filbert, S. C. Cotton-picking machine. No. 1,323,089; Nov. 25; v. 268; p. 680.

Neill, Robert P., Calumet, Mich. Safety-razor. No. 1,298,772; Apr. 1; v. 261; p. 37.

Neill, Charles R., and E. T. Gatrell, Tulsa, Okla. Roof construction. No. 1,316,968; Sept. 23; v. 266; p. 531.

Neill, Geo. W., et al. (See Ford, Everett G., assignor.)

Neill, William L. (See Tolson, Robert L., assignor.)



## Alphabetical list of patentees—Continued.

- Nells, William D., Davenport, Iowa. Automatic slack-adjuster. No. 1,291,086; Jan. 14; v. 258; p. 283.
- Neiss, Charles M., Newark, N. J. Collar-button. No. 1,294,144; Feb. 11; v. 259; p. 304.
- Neiss, Charles M., Newark, N. J. Button. No. 1,315,390; Sept. 9; v. 266; p. 178.
- Neiswander, Clyde C., East Columbus, Ohio. Aeroplane. No. 1,295,571; Feb. 25; v. 259; p. 693.
- Neitzel, Conrad T. (See Pade and Neitzel.)
- Nekarda, Francis J., New York, N. Y. Swimming and life-preserving belt. No. 1,315,190; Sept. 2; v. 266; p. 131.
- Neller, Albert H., assignor to The Loudon Machinery Company, Fairfield, Iowa. Overhead carrier. No. 1,291,606; Jan. 14; v. 258; p. 402.
- Neller, Albert H., assignor to The Loudon Machinery Company, Fairfield, Iowa. Overhead track. No. 1,326,607; Dec. 30; v. 269; p. 795.
- Nelsen, Alfred N., Long Beach, Calif. Life-saving boat. No. 1,321,541; Nov. 11; v. 268; p. 287.
- Nelson, Adolph L. (See Gunn and Nelson.)
- Nelson, Albert S. O., Cicero, Ill. Snap-fastener. No. 1,309,586; July 8; v. 264; p. 320.
- Nelson, Albin J. (See Karst and Nelson.)
- Nelson, Alexander W., Newark, N. J. Adjustable angle-plate. No. 1,323,901; Dec. 2; v. 269; p. 128.
- Nelson, Anton. (See Henes and Nelson.)
- Nelson, Benjamin H., St. Thomas, N. D., J. M. Landrigan, Virginia, and L. G. Zesbaugh, assignors to Traveling Shock Gatherer Company, Minneapolis, Minn. Shock-gatherer. No. 1,300,188; Apr. 8; v. 261; p. 383.
- Nelson, Bror A., Chicago, Ill. Molding apparatus. No. 1,291,607; Jan. 14; v. 258; p. 403.
- Nelson, Carl F. (See Hammond and Nelson.)
- Nelson, Carl F., et al. (See Holmes, Henry H., assignor.)
- Nelson, Carl G., Cleveland, Ohio. Aircraft. No. 1,318,791; Oct. 14; v. 267; p. 277.
- Nelson, Charles, St. Louis, Mo. Ice-cream cabinet. No. 1,321,120; Nov. 11; v. 268; p. 207.
- Nelson, Charles A., Utica, N. Y., assignor to Savage Arms Corporation. Cartridge-magazine evacuator. No. 1,290,844; Jan. 7; v. 258; p. 199.
- Nelson, Charles A., assignor to Savage Arms Corporation, Utica, N. Y. Firearm. No. 1,293,877; Feb. 11; v. 259; p. 240.
- Nelson, Charles A., Utica, N. Y., assignor to Savage Arms Corporation. Machine-gun-magazine filler. No. 1,306,019; June 10; v. 263; p. 179.
- Nelson, Charles A., Utica, N. Y., assignor to Savage Arms Corporation. Cartridge-magazine for firearms. No. 1,306,972; June 17; v. 263; p. 389.
- Nelson, Charles R., assignor to C. R. & W. A. Nelson, Chicago, Ill. Punch-press. No. 1,319,411; Oct. 21; v. 267; p. 421.
- Nelson, Clyde A., Cristobal, Canal Zone. Rod-bending machine. No. 1,319,608; Oct. 21; v. 267; p. 458.
- Nelson, De Witt, assignor to Tom Thumb Tractor Company, Minneapolis, Minn. Traction-engine. No. 1,299,855; Apr. 8; v. 261; p. 310.
- Nelson, De Witt, and H. C. Steele, assignors to Tom Thumb Tractor Company, Minneapolis, Minn. Traction-belt. No. 1,292,854; Jan. 28; v. 258; p. 756.
- Nelson, Edward A., Toronto, Ontario, Canada. Abdominal truss. No. 1,293,878; Feb. 11; v. 259; p. 241.
- Nelson, Elof, Oak Creek, Colo. Baker's furnace. No. 1,292,017; Jan. 21; v. 258; p. 535.
- Nelson, Frank E., Minneapolis, Minn. Piano-truck. No. 1,322,719; Nov. 25; v. 268; p. 610.
- Nelson, Frank J., Hallock, Minn. Fastener attachment for rubbers. No. 1,300,998; Apr. 15; v. 261; p. 581.
- Nelson, Frederick, and C. Espersen, Jamestown, N. Y. Folding bracket-table. No. 1,326,683; Dec. 30; v. 269; p. 809.
- Nelson, Frederick A. (See Spellman, Thomas W., assignor.)
- Nelson, Gustaf T., assignor of one-half to O. S. Tam, Orange, Tex. Shaft-coupling. No. 1,305,925; June 3; v. 263; p. 131.
- Nelson, Gustave A., Galloway, Wis. Device for straightening deformed or club feet. No. 1,301,491; Apr. 22; v. 261; p. 716.
- Nelson, Henry, assignor of one-half to T. S. Hanson, Northwood, Iowa. Device for recovering well-sections. No. 1,290,642; Jan. 7; v. 258; p. 152.
- Nelson, Henry W., Ashby, Minn. Window-sash fastener. No. 1,312,864; Aug. 12; v. 265; p. 223.
- Nelson, Herbert, Harptree, Saskatchewan, Canada. Grain-drill. No. 1,308,252; July 1; v. 264; p. 45.
- Nelson, Herman, York, Nebr. Nut-lock. No. 1,324,061; Dec. 9; v. 269; p. 202.
- Nelson, Hjalmer A., assignor of one-third to G. E. Westergren and one-third to E. L. Anderson, St. Paul, Minn. Pneumatic door-check. No. 1,290,643; Jan. 7; v. 258; p. 152.
- Nelson, Howard N., Northwood, N. D. Crane. No. 1,316,589; Sept. 23; v. 266; p. 462.
- Nelson, Irving C., San Anselmo, Cal. Shock-absorber. No. 1,293,166; Feb. 4; v. 259; p. 44.
- Nelson, John, San Jose, Cal. Antiskidding and traction device. No. 1,294,523; Feb. 18; v. 259; p. 428.
- Nelson, John, Newton, Iowa. Gearing for washing-machines. No. 1,307,101; June 17; v. 263; p. 413.
- Nelson, John, Ottawa, Kans. Reinforced-concrete tie. No. 1,318,904; Oct. 14; v. 267; p. 299.
- Nelson, John, and A. Schelwer, Erie, Pa. Cue-tilt. No. 1,312,198; Aug. 5; v. 265; p. 65.
- Nelson, John A., et al. (See Shields, Nelson, assignor.)
- Nelson, John J., assignor of one-fourth to O. H. Westergren and one-fourth to B. Mathews, Los Angeles, Calif. Bleaching copper ores. No. 1,326,463; Dec. 30; v. 269; p. 768.
- Nelson, John S., Sioux Falls, S. D. Air-moistener and dust-collector. No. 1,305,926; June 3; v. 263; p. 132.
- Nelson, John T., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Hose-coupling. No. 1,303,367; May 13; v. 262; p. 195.
- Nelson, John T., Berclair, Miss., assignor of one-fourth to J. L. Lacy, Greenwood, Miss. Fireplace-lining. No. 1,306,612; June 10; v. 263; p. 291.
- Nelson, Joseph W., St. Cloud, Minn. Control-lever mounting. No. 1,310,955; July 22; v. 264; p. 639.
- Nelson, Joseph W., St. Cloud, Minn. Supporting means for motors. No. 1,310,956; July 22; v. 264; p. 639.
- Nelson, Lars G., Garden City, Iowa. Copy-holder. No. 1,292,018; Jan. 21; v. 258; p. 535.
- Nelson, Leon J., Omaha, Nebr. Machine for box-making. No. 1,297,391; Mar. 18; v. 260; p. 417.
- Nelson, Leon J., Omaha, Nebr. Box-assembling machine. No. 1,297,392; Mar. 18; v. 260; p. 417.
- Nelson, Lewen R., Peoria, Ill. Making hose connectors or couplings. No. 1,321,323; Nov. 11; v. 268; p. 246.
- Nelson, Lewen R., Peoria, Ill. Hose connector or coupling and making same. No. 1,321,324; Nov. 11; v. 268; p. 246.
- Nelson, Lewis D., assignor of one-half to R. M. Neale, Union City, Mich. Air-heating attachment for internal-combustion engines. No. 1,313,639; Aug. 19; v. 265; p. 388.
- Nelson, Lionel. (See Cambridge, Allen S., assignor.)
- Nelson, Lloyd F., Seattle, Wash. Combination pencil and scribe. No. 1,303,944; May 20; v. 262; p. 339.
- Nelson, Nels G. (See Nelson, Oscar and N. G.)
- Nelson, Nels K., Lake Mills, Iowa. End-gate fastener. No. 1,306,117; June 10; v. 263; p. 197.
- Nelson, Nicholas, Caribou, Me. Tractor. No. 1,305,231; May 27; v. 262; p. 620.
- Nelson, Oscar, Minneapolis, and N. G. Nelson, St. Paul, Minn. Window-ventilator. No. 1,294,145; Feb. 11; v. 259; p. 304.
- Nelson, Oscar W., Thompson, Iowa. Machine for boring cylinders. No. 1,295,052; Feb. 18; v. 259; p. 549.
- Nelson, Otto, Chicago, Ill. Grease scoop and gun. No. 1,325,573; Dec. 23; v. 269; p. 565.
- Nelson, Philip, East Las Vegas, N. Mex. Invalid-lifting appliance for bedsteads. No. 1,303,368; May 13; v. 262; p. 196.
- Nelson, Richard, Chicago, Ill. Child's vehicle. No. 1,309,331; July 8; v. 264; p. 272.
- Nelson, Steve C., Finley, N. D. Wheel-rim. No. 1,299,378; Apr. 1; v. 261; p. 173.
- Nelson, Sven T., Oak Park, Ill., assignor to Sullivan Machinery Company, Boston, Mass. Valve. No. 1,299,761; Apr. 8; v. 261; p. 290.
- Nelson, Sven T., Chicago, Ill., assignor to Sullivan Machinery Company, Boston, Mass. Valve. No. 1,299,762; Apr. 8; v. 261; p. 290.
- Nelson, Swan A., Tunnelhill, Pa. Anchor and brace for rails of railway-tracks. No. 1,321,121; Nov. 11; v. 268; p. 207.
- Nelson, Theodore H., Chicago, Ill. Burglar-alarm system and apparatus therefor. No. 1,290,644; Jan. 7; v. 258; p. 152.
- Nelson, Theodore H., Chicago, Ill. Switching mechanism for intercommunicating telephone systems. No. 1,290,645; Jan. 7; v. 258; p. 153.
- Nelson, Theodore H., Chicago, Ill. Selective switch. No. 1,323,716; Dec. 2; v. 269; p. 92.
- Nelson, Thomas A., Chicago, Ill. Pressure-gage. No. 1,322,463; Nov. 18; v. 268; p. 511.
- Nelson, Thomas K., Harlan, Iowa. Motor-stand. No. 1,291,087; Jan. 14; v. 258; p. 283.
- Nelson, Victor, Dubois, Wyo. Rail-joint. No. 1,302,070; Apr. 29; v. 261; p. 858.
- Nelson, Victor A., Bremerton, Wash. Mangle. No. 1,321,542; Nov. 11; v. 268; p. 287.
- Nelson, Victor E., Detroit, Mich. Tractor-wheel. No. 1,305,303; June 3; v. 263; p. 14.
- Nelson, Wesley H., assignor of forty-nine one-hundredths to B. M. Priest, Los Angeles, Calif. Inclination-indicator. No. 1,302,580; May 6; v. 262; p. 18.
- Nelson, William C., Rochester, N. H. Cartridge-shell. No. 1,292,359; Jan. 21; v. 258; p. 618.
- Nelson, William J., Brandon, S. D. Latch for sliding doors. No. 1,314,978; Sept. 2; v. 266; p. 93.
- Nelson, William V. (See Van Loon, Earl H., assignor.)
- Nelson, Willie W., Monticello, Miss. Automatic railway stock-gate. No. 1,301,492; Apr. 22; v. 261; p. 716.
- Nemmers, Peter J. L., Chicago, Ill. Bur-holder for dental tools. No. 1,292,632; Jan. 28; v. 258; p. 705.
- Neracher, William A., et al. (See Ahlm, Charles E. F., assignor.)



- Neresheimer, Karl, C. Bosch, and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Manufacture of urea. No. 1,292,019; Jan. 21; v. 258; p. 536.
- Nerness, Carl C., Omaha, Nebr. Roofing-cutter. No. 1,302,414; Apr. 29; v. 261; p. 923.
- Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Electric-lamp socket. No. 1,316,459; Sept. 16; v. 266; p. 388.
- Nervo, Frank, Jr., Geyserville, Calif. Engine-primer. No. 1,297,896; Mar. 18; v. 260; p. 524.
- Nesbit, Joseph N. G., Atlanta, Ga. Aeroplane. No. 1,298,773; Apr. 1; v. 261; p. 37.
- Nesbitt, James H., and J. C. Lauritzen, assignors of one-third to said Lauritzen and two-thirds to The Williams Foundry and Machine Company, Akron, Ohio. Separable core. No. 1,297,226; Mar. 11; v. 260; p. 352.
- Nesbitt, William J., Los Angeles, Calif. Heel-cutting apparatus. No. 1,326,150; Dec. 23; v. 269; p. 672.
- Nesbitt, William J., Los Angeles, Calif. Heel-cutting apparatus. No. 1,326,151; Dec. 23; v. 269; p. 672.
- Ness, Andrew, Glasgow, Scotland. Electroplating and electrocleaning apparatus. No. 1,326,891; Dec. 30; v. 269; p. 849.
- Ness, Arthur B. (See Compton, Ness, Gausewitz, and Green.)
- Ness, Nils. (See Bjorkholm and Ness.)
- Nestell, Raymond J., assignor to International Precipitation Company, Los Angeles, Calif. Utilization of cement-kiln dust. No. 1,307,920; June 24; v. 263; p. 595.
- Nestor Manufacturing Company. (See Cumner and Geissenhainer, assignors.)
- Nestor, Patrick C., Philadelphia, Pa. Thumb-tack. No. 1,320,901; Nov. 4; v. 268; p. 102.
- Nestor, William E., Waynesburg, Pa. Valve. No. 1,322,600; Nov. 25; v. 268; p. 589.
- Nethercutt, Charles A., Burnetts Creek, Ind. Tire-guard. No. 1,312,344; Aug. 5; v. 265; p. 91.
- Nethercutt, Charles D., Burnetts Creek, Ind. Counter-bore. No. 1,299,856; Apr. 8; v. 261; p. 311.
- Netherwood, Harry, Warrington, England. Stop-motion for velvet and like pile cutting machines. No. 1,292,020; Jan. 21; v. 258; p. 536.
- Netter, Raphaël, New York, N. Y. Mechanism for delivering glass. No. 1,314,691; Sept. 2; v. 266; p. 41.
- Netzel, Richard J., Cleveland, Ohio. Tractor device for motor-vehicles. No. 1,296,309; Mar. 4; v. 260; p. 112.
- Netzel, Richard J., Cleveland, Ohio. Paper-feeding machine. No. 1,305,899; June 3; v. 263; p. 32.
- Neubeck, William H. (See Bliss and Neubeck.)
- Neuberg, Gustave, and L. Kramer, Chicago, Ill. Motor-boat. No. 1,293,167; Feb. 4; v. 259; p. 45.
- Neubert, Walter F., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Slow-acting device. No. 1,310,500; July 22; v. 264; p. 555.
- Neuberth, Franklin G., assignor to The S. O. & C. Co., Ansonia, Conn. Button-making machine. No. 1,299,763; Apr. 8; v. 261; p. 290.
- Neuberth, Franklin G., Ansonia, and E. M. Grilley, assignors to The Waterbury Jewel Company, Waterbury, Conn. Pipe-cover. No. 1,312,042; Aug. 5; v. 265; p. 36.
- Neuberth, George E., Newark, N. J. Machine for bending tubing. No. 1,320,338; Oct. 28; v. 267; p. 618.
- Neuhaus, Henry M., Susanville, Cal. Hay-loader. No. 1,293,517; Feb. 4; v. 259; p. 127.
- Neuland, Alfons H., San Francisco, Calif. Electromagnetic power-transmitting apparatus. No. 1,298,375; Mar. 25; v. 260; p. 651.
- Neuland, Alfons H., New York, N. Y. Electromagnetic transmission. No. 1,298,376; Mar. 25; v. 260; p. 651.
- Neuman, Henry, Scappoose, Oreg. Pen-point releaser. No. 1,292,021; Jan. 21; v. 258; p. 536.
- Neuman, Hugo, assignor to Motor Products Corporation, Detroit, Mich. Wind-shield construction. No. 1,302,953; May 6; v. 262; p. 90.
- Neumann, Bernhard A., Kansas City, Kans., assignor of one-half to W. H. Tigerman, Kansas City, Mo. Combination-padlock. No. 1,293,879; Feb. 11; v. 259; p. 241.
- Neumann, Charles F. (See Address and Neumann.)
- Neumann, Math, Monticello, Minn. Automatic calf-feeder. No. 1,325,035; Dec. 16; v. 269; p. 448.
- Neumann, Max P. (See Kipniss and Neumann, assignors.)
- Neuswanger, William, Greeley, Colo. Machine for marking various articles. No. 1,301,076; Apr. 15; v. 261; p. 600.
- Neuts, William, Hyde Park, London, England. Collapsible box, case, and the like. No. 1,308,678; July 1; v. 264; p. 123.
- Nevada Manufacturing Company. (See Williams, George H., assignor.)
- Nevens, Herbert R., Dorchester, and R. Marcy, Allston, Mass., assignors to Nevens-Wallace Train Control Company. Train-control apparatus. No. 1,299,753; Apr. 8; v. 261; p. 287.
- Nevens, Herbert R., Hartford, Conn., assignor to Nevens-Wallace Train Control Company. Train-stop mechanism. No. 1,305,738; June 3; v. 263; p. 97.
- Nevens, Herbert R., Dorchester, Mass., assignor to Nevens-Wallace Train Control Company. Train-control apparatus. No. 1,323,090; Nov. 25; v. 268; p. 680.
- Nevens, Herbert R., Dorchester, Mass., assignor to Nevens-Wallace Train Control Company. Train-stop device. No. 1,323,091; Nov. 25; v. 268; p. 680.
- Nevens-Wallace Train Control Company. (See Nevens, Herbert R., assignor.)
- Nevens-Wallace Train Control Company. (See Nevens and Marcy, assignors.)
- Nevens-Wallace Train Control Company. (See Wallace, Lewis H., assignor.)
- Never-Dull Drill Co. (See Bernay, Henri, assignor.)
- Neville, Herbert C., East Moline, Ill. Clutch. No. 1,316,590; Sept. 23; v. 266; p. 462.
- Neville, John H., Portland, Oreg. Wire-twister. No. 1,293,880; Feb. 11; v. 259; p. 241.
- Nevins, Frank M., Coalinga, Calif. Perforation-cleaner for well-casings. No. 1,298,083; Mar. 25; v. 260; p. 589.
- New American Ore Concentrator Company. (See Stratton, Nathaniel A., assignor.)
- New Britain Machine Company, The. (See Brown, Robert S., assignor.)
- New Departure Manufacturing Company, The. (See Anderson, Axel F., assignor.)
- New Departure Manufacturing Company, The. (See Hughes, Frederick G., assignor.)
- New Era Mfg. Co. (See White, Henry P., assignor.)
- New Era Spinning Co. (See Bélanger, Victor, assignor.)
- New Haven Clock Co. (See Porter, Wilson E., assignor.)
- New Idea Spreader Co. (See Synck, Henry, assignor.)
- New Idea Spreader Company. (See Rollman, Bruce B., assignor.)
- New Jersey Optical Co. (See Durgin, Edgar R., assignor.)
- New Jersey Optical Co. (See Searles, Wayne S., assignor.)
- New Jersey Patent Company. (See Constable, John P., assignor.)
- New Jersey Patent Company. (See Edison, Thomas A., assignor.)
- New Jersey Patent Company. (See Holland, Newman H., assignor.)
- New Jersey Patent Company. (See Langley, Sam G., assignor.)
- New Jersey Patent Company. (See Lewis, Frank D., assignor.)
- New Jersey Patent Company. (See Ott, John F., assignor.)
- New Jersey Patent Company. (See McWilliams, William W., assignor.)
- New Jersey Zinc Company, The. (See Borchardt, Walter O., assignor.)
- New Jersey Zinc Company, The. (See Breyer, Singmaster, and Hall, assignors.)
- New Jersey Zinc Company, The. (See Breyer, Hall, and Waltz, assignors.)
- New Jersey Zinc Company, The. (See Myers, John F., assignor.)
- New Jersey Zinc Company. (See Rowand, Lewis G., assignor.)
- New Jersey Zinc Company, The. (See Singmaster, Breyer, and Bunce, assignors.)
- New London Chemical Company, The. (See Flanders, Bert W., assignor.)
- New Martinsville Glass Manufacturing Company, The. (See Clarke, Ira M., assignor.)
- "New Way" Motor Company, The. (See Manthey, Henry, assignor.)
- New York Belting & Packing Company. (See Brown and Somerville, assignors.)
- New York Belting and Packing Company. (See Gibbons, Willis A., assignor.)
- New York Belting and Packing Company. (See Ostromislensky, Iwan, assignor.)
- New York Belting & Packing Company. (See Somerville, Albert A., assignor.)
- New York Belting & Packing Company. (See Thatcher, Sheldon P., assignor.)
- New York Calculating Machine Company. (See De Simone, M. G., assignor.)
- New York Engineering Company. (See Lowy, Arthur, assignor.)
- New York Engineering Company. (See Ludlum and Lowy, assignors.)
- New York Stamping Company. (See Rogers and Cosgrove, assignors.)
- Newark Engineering and Refrigerating Company et al. (See Eisler, Charles, assignor.)
- Newbauer, Faltine, assignor of one-eighth to C. J. Lee, three-eighths to E. B. Stull, and one-eighth to J. Holland, Valley City, N. D. Grain-shocker. No. 1,299,599; Apr. 8; v. 261; p. 252.
- Newbigin, Henry T., Newcastle-upon-Tyne, England. Journal-bearing. No. 1,322,332; Nov. 18; v. 268; p. 486.
- Newbold, Harry, St. Albans, assignor to The Triplex Goggle Mask & Lens Co. Ltd., London, England. Goggles for airmen, motorists, and others. No. 1,294,524; Feb. 18; v. 259; p. 428.
- Newburgh, Carl O., assignor of one-half to A. C. Johnson, Rockford, Ill. Steam-separator. No. 1,311,573; July 29; v. 264; p. 787.
- Newbury, Frank D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of load distribution for synchronous-type frequency-changers. No. 1,306,556; June 10; v. 263; p. 280.



## Alphabetical list of patentees—Continued.

- Newbury, Frank D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,320,789; Nov. 4; v. 268; p. 81.
- Newby, Henry H., San Quentin, Calif. Surf-board. No. 1,324,687; Dec. 9; v. 269; p. 322.
- Newby, Thomas S., Terre Haute, Ind. Safety-signal for automobiles. No. 1,315,634; Sept. 9; v. 266; p. 221.
- Newcomb Carburetor Company. (See Newcomb, Edward C., assignor.)
- Newcomb, Edward C., North Scituate, Mass., assignor to Newcomb Carburetor Company. Carburetor. No. 1,319,789; Oct. 28; v. 267; p. 515.
- Newcomb, Harold A., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vapor-rectifier. No. 1,293,881; Feb. 11; v. 259; p. 241.
- Newcomb, Ralph W., Greenwich, Conn., assignor to C. Engelhard, New York, N. Y. Apparatus for causing a predetermined variation or predetermined variations in a physical effect. No. 1,295,572; Feb. 25; v. 259; p. 693.
- Newcomb, Richard, Denver, Colo. Hay-shocker. No. 1,318,296; Oct. 7; v. 267; p. 122.
- Newcomb, Robert E., Holyoke, Mass. Fluid-pump. No. 1,307,210; June 17; v. 263; p. 432.
- Newcombe, Charles W., Tacoma, Wash. Drain-valve. No. 1,310,501; July 22; v. 264; p. 555.
- Newcomer, Martin, Perth Amboy, assignor to Volotone Company, Elizabeth, N. J. Machine for punching music-sheets. No. 1,320,643; Nov. 4; v. 268; p. 53.
- Newdick, Norton A., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Mine-working machine. No. 1,308,639; July 1; v. 264; p. 115.
- Newell, Alfred, Ottawa, Ontario, Canada. Low-level indicator and alarm. No. 1,291,088; Jan. 14; v. 258; p. 283.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Percussion-fuse for projectiles. No. 1,292,505; Jan. 28; v. 258; p. 673.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Friction draft-gear. No. 1,295,053; Feb. 18; v. 259; p. 549.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Percussion-fuse for projectiles. No. 1,309,768; July 15; v. 264; p. 391.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Percussion-fuse. No. 1,309,769; July 15; v. 264; p. 391.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Time-fuse for projectiles. No. 1,309,770; July 15; v. 264; p. 391.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Projectile time-fuse. No. 1,309,771; July 15; v. 264; p. 391.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Ordnance-projectile. No. 1,309,772; July 15; v. 264; p. 392.
- Newell, Edward W., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pneumatically-operated impact-fuse. No. 1,309,773; July 15; v. 264; p. 392.
- Newell, Edward W., Pittsburgh, Pa. Signal device for motor-vehicles. No. 1,318,792; Oct. 14; v. 267; p. 277.
- Newell, Lewis, Union Hill, N. J. Engine. No. 1,310,767; July 22; v. 264; p. 605.
- Newell, Minton H., assignor to The Alloys Company, San Francisco, Cal. Apparatus for manufacturing metal-dust. No. 1,295,573; Feb. 25; v. 259; p. 693.
- Newell & Neal. (See Jenkins, Henry C., assignor.)
- Newell, Olney. (See Hills, Richard C., assignor.)
- Newell, Otis K., Philadelphia, Pa. Non-entangling device for fuses. No. 1,298,550; Mar. 25; v. 260; p. 690.
- Newell, Robert H. (See Hale and Newell.)
- Newell, Stanley, Wapello, Iowa. Combined closure and eraser for fountain-pens. No. 1,302,954; May 6; v. 262; p. 90.
- Newell, William C., Portland, Oreg. Automatic heat-controlled cut-out. No. 1,309,908; July 15; v. 264; p. 417.
- Newhall, Henry B. (See Pleister, Henry W., assignor.)
- Newhall, Henry B., Jr., executor. (See Pleister, Henry W., assignor.)
- Newhall, Ezra A., Philadelphia, Pa. Evaporating apparatus and operating the same. No. 1,318,793; Oct. 14; v. 267; p. 277.
- Newhall, Ione F., Crystal Bay, Minn. Cooker. No. 1,309,444; July 8; v. 264; p. 293.
- Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Jaw-crusher. No. 1,309,807; July 15; v. 264; p. 398.
- Newinger, Edward D., South Bend, Wash. Skidway. No. 1,320,408; Nov. 4; v. 268; p. 10.
- Newitt, Edward J. D., New York, N. Y., assignor of one-half to E. F. Watson, Dumont, N. J. Gun-sight and sighting. No. 1,326,464; Dec. 30; v. 269; p. 768.
- Newkirk, Earl R. (See Farrell and Newkirk.)
- Newkirk, Gilbert A., Denver, Colo. Life-insurance-computing packet. No. 1,314,146; Aug. 26; v. 265; p. 517.
- Newkirk, Mary M., Indianapolis, Ind. Seed grading and cleaning machine. No. 1,323,784; Dec. 2; v. 269; p. 105.
- Newkirk, Thomas H. (See Bergman, Axel G., assignor.)
- Newland, Albert B., Los Angeles, Calif., assignor of one-half to C. C. Clark, Cleveland, Ohio. Rotary engine. No. 1,326,684; Dec. 30; v. 269; p. 809.
- Newlander, Olaf, assignor to American & British Manufacturing Company, Bridgeport, Conn. Line-carrying projectile. No. 1,322,601; Nov. 25; v. 268; p. 589.
- Newlon, William P., Buckhannon, W. Va. Garment-receptacle. No. 1,307,211; June 17; v. 263; p. 432.
- Newman, Albert B., Langeloth, Pa. Method and apparatus for concentrating sulfuric acid. No. 1,294,525; Feb. 18; v. 259; p. 428.
- Newman, Adolph, et al. (See Hasty, Charles E., assignor.)
- Newman, Albert G., Stanhope, Iowa. Grinding-mill. No. 1,311,614; July 29; v. 264; p. 795.
- Newman, Albert T., Emporia, Kans. Musical instrument. No. 1,297,585; Mar. 18; v. 260; p. 458.
- Newman, Clark A., New York, N. Y. Automatic gun. No. 1,307,594; June 24; v. 263; p. 536.
- Newman, Henry E., Shoshone, Idaho. Sectional post. No. 1,321,237; Nov. 11; v. 268; p. 230.
- Newman, Jacob W., New Orleans, La. Combination-fastener. No. 1,312,421; Aug. 5; v. 265; p. 106.
- Newman, Joseph S., Cleveland, Ohio. Telegraph instrument. No. 1,299,994; Apr. 8; v. 261; p. 339.
- Newman, Linwood J. H., Burke, Va. Gate-latch. No. 1,307,789; June 24; v. 263; p. 571.
- Newman, Louis. (See Fischbein and Newman.)
- Newman, Malcolm A., Floresville, Tex. Thread-cutting tool. No. 1,312,345; Aug. 5; v. 265; p. 91.
- Newman, Max H., New York, N. Y., assignor to Police Traffic Auto Signal Co. Automobile-signal. No. 1,292,855; Jan. 28; v. 258; p. 757.
- Newton, Richard T., New York, N. Y. Bracket. No. 1,315,789; Sept. 9; v. 266; p. 248.
- Newton, Richard T., New York, N. Y. Automobile-bumper. No. 1,325,368; Dec. 16; v. 269; p. 510.
- Newman, Rutledge H., Chicago, Ill. Fruit-knife. No. 1,301,297; Apr. 22; v. 261; p. 680.
- Newman, Sylvia E. (See Treadwell, Osborn, and Newman.)
- Newman, Thomas F., and O. W. Johnson, Cleveland, Ohio. Stevedore's truck. No. 1,292,022; Jan. 21; v. 258; p. 536.
- Newman, William A., Oakland, Calif. Vehicle-bed. No. 1,311,177; July 29; v. 264; p. 713.
- Newmann, John, Brooklyn, N. Y. Ball-bearing. No. 1,303,712; May 13; v. 262; p. 258.
- Newmont Company. (See Bacon, Raymond F., assignor.)
- Newport Boiler Company. (See Newport, Charles F., assignor.)
- Newport, Charles F., assignor to Newport Boiler Company, Chicago, Ill. Heater. No. 1,320,790; Nov. 4; v. 268; p. 81.
- Newport Chemical Works. (See Reverdin, Frederick, assignor.)
- Newquist, Harvey R., Wausa, Nebr. Electrically-operated signal for mail-boxes. No. 1,307,305; June 17; v. 263; p. 450.
- Newshutz, Frank, Alliance, Ohio. Boiler-flue connection. No. 1,294,362; Feb. 11; v. 259; p. 354.
- Newsom, Horace H., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Workman's-card protector. No. 1,291,608; Jan. 14; v. 258; p. 403.
- Newsom, Horace H., assignor to The Standard Parts Company, Cleveland, Ohio. Clutch mechanism. No. 1,310,629; July 22; v. 264; p. 579.
- Newsom, John F., San Francisco, Cal. Torpedo-guard. No. 1,293,168; Feb. 4; v. 259; p. 45.
- Newsom, John F., San Francisco, Cal. Torpedo-guard. No. 1,293,169; Feb. 4; v. 259; p. 45.
- Newsom, John F., Palo Alto, Calif. Automatically-controlled electric coffee-cooker. No. 1,318,168; Oct. 7; v. 267; p. 97.
- Newstarter Manufacturing Company. (See Kendall, James R., assignor.)
- Newton, Charles H., Plainville, Conn. Valve-remover. No. 1,314,355; Aug. 26; v. 265; p. 558.
- Newton, George R., Haddam, Kans. Trace-end carrier. No. 1,313,499; Aug. 19; v. 265; p. 361.
- Newton, George C. and R. E. Milwaukee, Wis. Reinforced-concrete ship. No. 1,303,369; May 13; v. 262; p. 196.
- Newton, George L., Machen, Ga. Peanut-harvester. No. 1,293,170; Feb. 4; v. 259; p. 45.
- Newton Giant Incubator Corporation. (See Martin, Perry S., assignor.) (Reissue.)
- Newton, John D., New York, N. Y. Portable light. No. 1,305,151; May 27; v. 262; p. 605.
- Newton, John D., New York, N. Y. Portable light. No. 1,320,902; Nov. 4; v. 268; p. 103.
- Newton, Ralph E. (See Newton, George C. and R. E.)
- Newton, Richard T., New York, N. Y. Radiator-indicator. No. 1,306,557; June 10; v. 263; p. 280.
- Newton, Richard T., New York, N. Y. Shock-absorber. No. 1,306,558; June 10; v. 263; p. 280.
- Newton, Robert W., Providence, R. I. Automatic sprinkler. No. 1,290,298; Jan. 7; v. 258; p. 69.



- Newton-Smith, Arthur, Westminster, England. Picking mechanism of looms. No. 1,301,298; Apr. 22; v. 261; p. 680.
- Newton-Smith, Arthur, Westminster, England. Picking mechanism for looms. No. 1,322,933; Nov. 25; v. 268; p. 650.
- Newton-Smith, Arthur, London, England. Shuttle-checking mechanism of looms. No. 1,315,608; Sept. 9; v. 266; p. 216.
- Newton, Will L., assignor of four-tenths to H. C. Tyler, Columbus, Ohio. Nut-lock. No. 1,296,003; Mar. 4; v. 260; p. 42.
- Newton, William G., assignor to The Peck Bros & Co., New Haven, Conn. Basin-waste fixture. No. 1,311,241; July 29; v. 264; p. 725.
- Newton, William J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Toggle-socket. No. 1,302,415; Apr. 29; v. 261; p. 923.
- Newton, William J., assignor to H. Hubbell, Incorporated, Bridgeport, Conn. Multiple-switch-locking mechanism. No. 1,317,382; Sept. 30; v. 266; p. 646.
- Ney, Andrew F., East Kew, Victoria, Australia. Machine for leveling and stacking match-splints. No. 1,299,995; Apr. 8; v. 261; p. 340.
- Neyer, August, San Francisco, Calif. Hair-waving device. No. 1,299,008; Apr. 1; v. 261; p. 90.
- Nias, Henry. (See Lockwood and Nias.)
- Nible, Marie. (See Wegener, Otto F., assignor.)
- Niblo, Marie, Seattle, Wash. Drain and strainer. No. 1,292,856; Jan. 28; v. 258; p. 757.
- Nichol, John C., Perth, Ontario, Canada. Folding-leg furniture. No. 1,298,249; Mar. 25; v. 260; p. 626.
- Nichol, John C., Perth, Ontario, Canada. Closure for jars or receptacles. No. 1,311,288; July 29; v. 264; p. 734.
- Nichol, William, Detroit, Mich. Internal-combustion engine. No. 1,323,785; Dec. 2; v. 269; p. 105.
- Nicholas Askin M., Bismuth, via Deepwater, New South Wales, Australia. Baling tank or bucket. No. 1,309,652; July 15; v. 264; p. 370.
- Nicholas, Charles W., Tarentum, Pa., assignor to W. P. Murphy, Chicago, Ill. Coupling-release rigging. No. 1,322,934; Nov. 25; v. 268; p. 650.
- Nicholas Power Company. (See Power, Nicholas, assignor.)
- Nicholas, William, New York, and W. Ackerman, Larchmont, N. Y., assignors, by mesne assignments, to United States Graphotype Company. Justifying means for type casting and composing machines. No. 1,310,207; July 15; v. 264; p. 470.
- Nicholas, William, New York, and W. Ackerman, Larchmont, N. Y., assignors, by mesne assignments, to United States Graphotype Company. Automatic means for duplicating character-casting in type-composing machines. No. 1,325,490; Dec. 16; v. 269; p. 532.
- Nicholis, John, *et al.* (See Pain, William, assignor.)
- Nicholl, Robert A., Detroit, Mich. Tractor. No. 1,299,600; Apr. 8; v. 261; p. 252.
- Nicholls, William G., Winnipeg, Manitoba, Canada. Bottle-cap. No. 1,304,193; May 20; v. 262; p. 384.
- Nichols, Aaron S., New York, N. Y. Lumber-drier. No. 1,318,794; Oct. 14; v. 267; p. 27.
- Nichols, Byron, Waterloo, S. C. Cotton chopping and thinning device. No. 1,319,412; Oct. 21; v. 267; p. 421.
- Nichols, Clarence H., *et al.* (See Norman, Frank, assignor.)
- Nichols, Clarence L., Randlett, Okla. Fishing-tool. No. 1,294,940; Feb. 18; v. 259; p. 524.
- Nichols, Clarence L., Ravenswood, Va. Line-cutting tool. No. 1,325,901; Dec. 23; v. 269; p. 626.
- Nichols Copper Company. (See Ferguson, William C., assignor.)
- Nichols, Ennis M., Washington, D. C., assignor to Egg Preserving and Storage Co. Method and apparatus for preserving eggs. No. 1,302,955; May 6; v. 262; p. 91.
- Nichols, Frank L. (See Knight and Nichols.)
- Nichols, Frank L., Stamford, Conn., assignor to International Munitions Company, Inc. of Delaware. Mortar-bomb. No. 1,309,743; July 15; v. 264; p. 387.
- Nichols, Frank L., Stamford, Conn., assignor to International Munitions Co. Inc. of Delaware. Bomb-thrower. No. 1,318,905; Oct. 14; v. 267; p. 299.
- Nichols, Frank L., Stamford, Conn., assignor to International Munitions Company Inc. of Delaware. Munitions organization. No. 1,324,613; Dec. 9; v. 269; p. 308.
- Nichols, George J., and B. F. Orear, Minneapolis, Minn. Folding table. No. 1,314,751; Sept. 2; v. 266; p. 52.
- Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Means for signaling from captive balloons. No. 1,296,687; Mar. 11; v. 260; p. 232.
- Nichols, Harold W., Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Secret-signaling system. No. 1,325,574; Dec. 23; v. 269; p. 566.
- Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube circuit. No. 1,325,879; Dec. 23; v. 269; p. 623.
- Nichols, Howard M., Swarthmore, assignor to The Atlantic Refining Company, Philadelphia, Pa. Filter apparatus. No. 1,302,832; May 6; v. 262; p. 67.
- Nichols, James S., Atlanta, Ga. Steam-boiler. No. 1,306,613; June 10; v. 263; p. 291.
- Nichols, John H., assignor to L. K. Maulsby, Spencer, Iowa. Tight-joint cover. No. 1,316,969; Sept. 23; v. 266; p. 532.
- Nichols, Lewis P., Unlontown, Pa. Game-board. No. 1,303,494; May 13; v. 262; p. 218.
- Nichols, Samuel D., Milwaukee, Wis. Shoe-lace cutter. No. 1,319,484; Oct. 21; v. 267; p. 435.
- Nichols, Samuel Z., Milwaukee, Wis. Air-compressor valve. No. 1,291,609; Jan. 14; v. 258; p. 403.
- Nichols, Perry J., Rockford, Ill. Apparatus for curing hay, grain, and the like. No. 1,303,945; May 20; v. 262; p. 339.
- Nichols, Thomas M., Ashland, Ky. Crane. No. 1,307,412; June 24; v. 263; p. 503.
- Nichols, Wesley G., assignor to American Manganese Steel Company, Chicago, Ill. Making manganese steel. No. 1,291,655; Jan. 14; v. 258; p. 415.
- Nichols, Wesley G., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Recovering manganese steel. No. 1,291,656; Jan. 14; v. 258; p. 415.
- Nicholson, Alonzo L., assignor of one-half to E. W. Burch, one-fourth to R. E. Conley, and one-fourth to H. A. Murphy, Rockwell City, Iowa. End-gate. No. 1,301,299; Apr. 22; v. 261; p. 680.
- Nicholson, Alonzo L., Rockwell City, Iowa. Wagon end-gate. No. 1,301,300; Apr. 22; v. 261; p. 680.
- Nicholson, Daniel T., Visalia, Calif. Means for indicating the thickness of cake formation in filter-presses. No. 1,299,996; Apr. 8; v. 261; p. 340.
- Nicholson, Frank H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for controlling the passage of cars or vehicles along railways. No. 1,317,308; Sept. 30; v. 266; p. 632.
- Nicholson, Frank H., West Haven, Conn. Railway-traffic-controlling apparatus. No. 1,317,639; Sept. 30; v. 266; p. 696.
- Nicholson, Harry S., and W. C. Beiswinger, assignors to W. H. Nicholson and Company, Wilkes-Barre, Pa. Steam-trap. No. 1,302,833; May 6; v. 262; p. 67.
- Nicholson, John H. (See Ofutt, Dunn, and Nicholson.)
- Nicholson, Niels C., Seattle, Wash. Fish-cleaning machine. No. 1,316,850; Sept. 23; v. 266; p. 510.
- Nicholson, Timothy, Scotland, Ind. Disk-grinder. No. 1,304,698; May 27; v. 262; p. 520.
- Nicholus, Robert E. (Brennan and Nicholus.)
- Nick, William, Minneapolis, Minn. Automatic cable-hanger distributor. No. 1,299,213; Apr. 1; v. 261; p. 136.
- Nickell, Charles H., Montrose, Colo. Bottle-tap. No. 1,324,206; Dec. 9; v. 269; p. 230.
- Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Blade-sharpening machine. No. 1,324,431; Dec. 9; v. 269; p. 273.
- Nicks, John H., San Saba, Tex. Store furniture. No. 1,319,302; Oct. 21; v. 267; p. 400.
- Nickum, Walter D., Glendale, Calif. Power-transmission means. No. 1,318,169; Oct. 7; v. 267; p. 97.
- Nico, Andrew S., assignor to The Genesee Pure Food Company, Le Roy, N. Y. Sealed receptacle. No. 1,310,247; July 15; v. 264; p. 478.
- Nico, Andrew S., assignor to The Genesee Pure Food Company, Le Roy, N. Y. Sealed receptacle. No. 1,310,288; July 15; v. 264; p. 485.
- Nico, Andrew S., assignor to The Genesee Pure Food Company, Le Roy, N. Y. Sealed receptacle. No. 1,310,289; July 15; v. 264; p. 485.
- Nicol, Norman C., Buffalo, N. Y. Hinge. No. 1,313,726; Aug. 19; v. 265; p. 404.
- Nicolaus, Frederic G., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Fender for gas-heaters. No. 1,294,941; Feb. 18; v. 259; p. 525.
- Nicolet, Ben H. (See Morton and Nicolet.)
- Nicoletti, Luigi, Rome, Italy. Cipher apparatus. No. 1,311,457; July 29; v. 264; p. 766.
- Nicoll, William B., Fort William, Ontario, Canada. Match-scratcher. No. 1,304,194; May 20; v. 262; p. 384.
- Nicoll, William R., Owatonna, Minn. Milking-machine. No. 1,300,857; Apr. 15; v. 261; p. 551.
- Nicols, Lowell W., Sewickley, assignor to H. C. Fry Glass Company, Rochester, Pa. Lantern. No. 1,298,084; Mar. 25; v. 260; p. 589.
- Nicolson, Alexander M., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. System for successive amplification of energies. No. 1,303,579; May 13; v. 262; p. 233.
- Nicolson, Alexander M., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Thermionic translating device. No. 1,307,510; June 24; v. 263; p. 521.
- Nicolson, Alexander M., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave-repeating apparatus. No. 1,307,511; June 24; v. 263; p. 521.
- Nicolson, Samuel, Maitland, via Gore, New Zealand. Machine for disintegrating fibrous substances. No. 1,326,685; Dec. 30; v. 269; p. 810.
- Nicoson, Lemuel C., Alexandria, Ind. Adjustable automobile-holder. No. 1,291,610; Jan. 14; v. 258; p. 404.



## Alphabetical list of patentees—Continued.

- Niebergall, Arthur G., *et al.* (See Bowen, Charles, assignor.)
- Niedecker, Edward F., Milwaukee, Wis. Mixing-valve. No. 1,321,238; Nov. 11; v. 268; p. 230.
- Niehage, Richard, Denver, Colo. Cannon and moving-target toy. No. 1,305,232; May 27; v. 262; p. 620.
- Niehaus, Earl F., Nokomis, Ill. Rail-joint. No. 1,319,169; Oct. 21; v. 267; p. 375.
- Niehoff, Ernest, Brooklyn, N. Y. Diving-armor. No. 1,307,921; June 24; v. 263; p. 595.
- Nielander, Joseph, Kokomo, Ind. Wrench. No. 1,301,159; Apr. 22; v. 261; p. 652.
- Niell, Magnus, Stockholm, Sweden. Photographic camera. No. 1,307,512; June 24; v. 263; p. 521.
- Nielsen, Alfred, Copenhagen, Denmark. Apparatus for the production of steel directly from pig-iron. No. 1,318,906; Oct. 14; v. 267; p. 299.
- Nielsen, Christian, assignor of forty-nine one-hundredths to Albert W. Carlson, Lake Charles, La. Clutch. No. 1,317,811; Oct. 7; v. 267; p. 28.
- Nielsen, Christian P. (See Kolby, Larson, and Nielsen.)
- Nielsen, Elin, Chicago, Ill. Table. No. 1,300,759. Apr. 15; v. 261; p. 530.
- Nielsen, Emil J., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Rivet-sorting device. No. 1,305,152; May 27; v. 262; p. 605.
- Nielsen, Frederik, Dorchester, Mass., assignor to A. Schrader's Son Incorporated, Brooklyn, N. Y. Dust-cap. No. 1,309,215; July 8; v. 264; p. 251.
- Nielsen, Frederik, Boston, Mass., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Inflating-valve. No. 1,313,553; Aug. 19; v. 265; p. 372.
- Nielsen, Frederik, Boston, Mass., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Inflating-valve. No. 1,313,554; Aug. 19; v. 265; p. 372.
- Nielsen, Hans P. K. T., Copenhagen, Denmark. Manufacturing peat fuel. No. 1,317,936; Oct. 7; v. 267; p. 52.
- Nielsen, Harald, Streatham, London, England. Filling material for absorption, reaction, mixing, and cooling towers. No. 1,307,635; June 24; v. 263; p. 543.
- Nielsen, Heinrich V. P., Boston, Mass. Mold for use in building walls. No. 1,320,791; Nov. 4; v. 268; p. 81.
- Nielsen, Henry W., Brooklyn, N. Y. Convertible drill and grinder. No. 1,296,004; Mar. 4; v. 260; p. 42.
- Nielsen, Herman, Copenhagen, Denmark. Outflow-regulator. No. 1,296,208; Mar. 4; v. 260; p. 90.
- Nielsen, Knud V., and J. P. Larsen, Aarhus, Denmark; said Nielsen assignor to said Larsen. Explosive and manufacturing the same. No. 1,293,882; Feb. 11; v. 259; p. 241.
- Nielsen, Lars P., Valley City, N. D. Condiment-holder. No. 1,292,506; Jan. 28; v. 258; p. 673.
- Nielsen, Niels D., Elyria, Ohio. Fluid-agitating mechanism. No. 1,307,595; June 24; v. 263; p. 536.
- Nielsen, Peder, Brønderslev, Denmark. Machine to make tubes from metal strips. No. 1,323,717; Dec. 2; v. 269; p. 92.
- Niemann, Frederick A., assignor to Comptograph Company, Chicago, Ill. Adding-machine. No. 1,309,692; July 15; v. 264; p. 377.
- Niemann, Harry N., Armstrong, Iowa. Compressed-air grease-gun. No. 1,312,642; Aug. 12; v. 265; p. 180.
- Niemeyer, William H., Los Angeles, Calif. Theft-alarm for automobiles. No. 1,301,493; Apr. 22; v. 261; p. 717.
- Niemeyer, William H., Baltimore county, Md. Stamp-rack. No. 1,314,893; Sept. 2; v. 266; p. 77.
- Nienstadt, August E., Bensonhurst, N. Y. Plastic composition and making the same. No. 1,295,356; Feb. 25; v. 259; p. 642.
- Nierodka, John, Detroit, Mich. Condiment-holder. No. 1,326,524; Dec. 30; v. 260; p. 780.
- Nies, Frederick R., Salem, and M. E. Nies, Swampscott, Mass. Convertible barrow and truck. No. 1,319,530; Oct. 21; v. 267; p. 443.
- Nies, Martin E. (See Nies, Frederick R. and M. E.)
- Nies, William L., and C. R. Birdsey, assignors to United States Gypsum Company, Chicago, Ill. Floor construction or the like. No. 1,313,500; Aug. 19; v. 265; p. 361.
- Niesen, Hugo P., Buffalo, N. Y. Refillable cartridge-fuse. No. 1,316,319; Sept. 16; v. 266; p. 362.
- Niess-Waner, Edwin G., assignor, by mesne assignments, of one-half to J. B. Clark, Pittsburgh, Pa. Film-reel. No. 1,325,450; Dec. 16; v. 269; p. 525.
- Nieuwland, Julius A., Notre Dame, Ind. Dye and dyeing. No. 1,326,367; Dec. 30; v. 260; p. 750.
- Niewiarowski, Peter, Omaha, Nebr. Angle screw-driver. No. 1,320,488; Nov. 4; v. 268; p. 24.
- Niewinski, Frank and J. Waterbury, Conn. Ordnance-piece. No. 1,317,987; Oct. 7; v. 267; p. 62.
- Niewinski, John. (See Niewinski, Frank and J.)
- Niewinski, Victor, St. Paul, Minn. Fan. No. 1,293,518; Feb. 4; v. 259; p. 127.
- Niewinski, Victor, St. Paul, Minn. Adjustable saw-frame. No. 1,313,107; Aug. 12; v. 265; p. 271.
- Niewoehner, Lewis C., Richmond, Ind. Traction-mat. No. 1,325,575; Dec. 23; v. 269; p. 566.
- Nieznalski, Joseph, and J. Belczynski, Detroit, Mich. Ore-charging machine for retorts. No. 1,296,998; Mar. 11; v. 260; p. 303.
- Nigbor, Joseph. (See Obolewicz, Stanislaw, assignor.)
- Nightingale, Frank W., Quincy, Mass. Awning-guard. No. 1,307,690; June 24; v. 263; p. 553.
- Nikel, Stefan, and T. Listoski, New York, N. Y. Railway signal device. No. 1,322,130; Nov. 18; v. 268; p. 448.
- Nikirk, Ray, Worth county, and G. E. Cathcart, Manly, Iowa. Railway stop-signal. No. 1,326,284; Dec. 30; v. 269; p. 734.
- Nikonow, John P., Dayton, Ohio. Combined lifting-jack and hoist. No. 1,295,357; Feb. 25; v. 259; p. 642.
- Nikonow, John P., Dayton, Ohio. Combined lifting-jack and hoist. No. 1,295,358; Feb. 25; v. 259; p. 642.
- Nikonow, John P., New York, N. Y. Non-richocheting shell. No. 1,298,085; Mar. 25; v. 260; p. 589.
- Nikonow, John P., New York, N. Y. Electric spot-light. No. 1,300,454; Apr. 15; v. 261; p. 465.
- Nikonow, John P., Baltimore, Md. Wrench. No. 1,302,834; May 6; v. 262; p. 67.
- Nikonow, John P., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coll-retaining device and assembling the same. No. 1,300,859; Apr. 15; v. 261; p. 551.
- Nikonow, John P., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism. No. 1,311,458; July 29; v. 264; p. 766.
- Nikonow, John P., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting system for automobiles. No. 1,318,795; Oct. 14; v. 267; p. 277.
- Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)
- Niles-Bement-Pond Company. (See Buckley, Sydney, assignor.)
- Niles-Bement-Pond Company. (See Greenleaf and Blood, assignors.)
- Niles-Bement-Pond Company. (See Hagman, William J., assignor.)
- Niles-Bement-Pond Company. (See Keefer and Greenleaf, assignors.)
- Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
- Niles-Bement-Pond Company. (See Teller, Spencer J., assignor.)
- Niles-Bement-Pond Company. (See Wals, Albert C., assignor.)
- Niles, Fannie J., Philadelphia, Pa., assignor to The Niles Normalizing Machine Co., Inc., New York, N. Y. Massage-machine. No. 1,291,611; Jan. 14; v. 258; p. 404.
- Niles, Fannie J., Philadelphia, Pa., assignor to The Niles Normalizing Machine Co., Inc., New York, N. Y. Massage apparatus. No. 1,291,612; Jan. 14; v. 258; p. 404.
- Niles, Irving F., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Slitting attachment for printing-machines. No. 1,293,883; Feb. 11; v. 259; p. 242.
- Niles, Irving F., Plainfield, N. J., assignor to R. Hoe and Co., New York, N. Y. Sheet-feeding mechanism. No. 1,312,865; Aug. 12; v. 265; p. 223.
- Niles Normalizing Machine Co., The. (See Niles, Fannie J., assignor.)
- Nilson, Gustaf E., New York, N. Y. Wrench. No. 1,306,020; June 10; v. 263; p. 179.
- Nilson, Harold. (See Nilson, Leonard and H.)
- Nilson, Lars G., Hoboken, N. J. Propeller. No. 1,308,527; July 1; v. 264; p. 94.
- Nilson, Leonard and H., Wayzata, Minn. Wheel. No. 1,292,023; Jan. 21; v. 258; p. 536.
- Nilson, Nils, Wayzata, Minn. Traction-machine. No. 1,321,937; Nov. 18; v. 268; p. 412.
- Nilsson, Fritz A., assignor to Jönköpings Mekaniska Werkstads Aktiebolag, Motorfabriken, Jönköping, Sweden. Link device. No. 1,293,884; Feb. 11; v. 259; p. 242.
- Nimmerfroh, Josephine, Lenox, Mass. Hair-waving device. No. 1,293,171; Feb. 4; v. 259; p. 45.
- Nimrick, Harold C., Everett, Wash. Motor-cycle stand. No. 1,314,421; Aug. 26; v. 265; p. 571.
- Nims, Louis A., administrator. (See Nims, Stuart A.)
- Nims, Stuart A., deceased, Keene, N. H.; L. A. Nims, administrator. Hose-testing device. No. 1,315,325; Sept. 9; v. 266; p. 165.
- Ninin, Edouard E., Philadelphia, Pa. Hair-cutter. No. 1,302,835; May 6; v. 262; p. 67.
- Ninow, Walter L., Milwaukee, Wis. Closet hanging device. No. 1,325,036; Dec. 16; v. 269; p. 448.
- Niper, Jesse P., Allamuchy, N. J. Traction-indicator. No. 1,311,289; July 29; v. 264; p. 734.
- Nipper, Henry, New York, N. Y. Game. No. 1,302,203; Apr. 29; v. 261; p. 882.
- Nippert, John W., Worden, Mont. Screen or storm-window fastener. No. 1,326,608; Dec. 30; v. 269; p. 796.
- Nippert, Worley, Vernon, Tex. Mechanism for rotating earth-drill bits. No. 1,318,225; Oct. 7; v. 267; p. 109.
- Nippon Sen-I Kogyo Kabushiki Kaisha. (See Nakamura, Yoshizumi, assignor.)
- Nippon Yusen Kwaisha Ltd. (See Hashimoto, Shuzo, assignor.)
- Nisbet, James, assignor to I. Gill, trustee, Pawtucket, R. I. Apparatus for cleaning out sewer catch-basins. No. 1,316,851; Sept. 23; v. 266; p. 510.



- Nlsbet, Robert B., Jr., Larchmont, assignor to Bankers Service Corporation, New York, N. Y. Duplex recording-cards. No. 1,303,106; May 6; v. 262; p. 119.
- Nishioka, Thomas K., Portland, Oreg. Dispensing apparatus. No. 1,301,301; Apr. 22; v. 261; p. 680.
- Niswanger, August T., Seattle, Wash. Post-hole-drilling machine. No. 1,295,574; Feb. 25; v. 259; p. 693.
- Niswanger, August T., Chicago, Ill. Post-hole-drilling machine. No. 1,295,575; Feb. 25; v. 259; p. 693.
- Niswonger, Elmer E., Dayton, Ohio, and P. McDorman, Niagara Falls, N. Y., assignors to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,292,024; Jan. 21; v. 258; p. 537.
- Niswonger, William H., Bad Axe, Mich., assignor to W. S. Darley, Chicago, Ill. Line-tester. No. 1,321,543; Nov. 11; v. 268; p. 287.
- Nitrogen Products Company. (See Arnold, Edward E., assignor.)
- Nitrogen Products Company. (See Crowell, Azariah F., Jr., assignor.)
- Nitrogen Products Company. (See Hidden, Charles P., assignor.)
- Nitrogen Products Company. (See Lindquist, Frank D., assignor.)
- Nitrogen Products Company. (See Mount, William D., assignor.)
- Nitrogen Products Company. (See Williams, Roger, assignor.)
- Niven, Maxim, Chicago, Ill. Making bottles and the like. No. 1,318,170; Oct. 7; v. 267; p. 97.
- Nixdorf, William B., Jr. (See Wilkinson and Nixdorf.)
- Nixon, Charles M. (See McFarland, John, assignor.)
- Nixon, Lewis, New Brunswick, N. J. Percussion-fuse. No. 1,311,835; July 29; v. 264; p. 836.
- Nixon, Miles G., Chicago, Ill., and O. Smith, Bridgeton, N. J. Game apparatus. No. 1,309,653; July 15; v. 264; p. 370.
- Nixon, Miles G., Chicago, Ill., and O. Smith, Bridgeton, N. J. Game apparatus. No. 1,319,355; Oct. 21; v. 267; p. 410.
- Nixon, William, Dixon, Ill. Display-stand. No. 1,312,043; Aug. 5; v. 265; p. 36.
- Noah, Joseph O., Lingleville, Tex. Peanut-digger. No. 1,300,636; Apr. 15; v. 261; p. 503.
- Noah, Robert S., Annapolis, assignor to H. B. Reinhardt, trustee, Roland Park, Md. Submarine gun-turret. No. 1,296,688; Mar. 11; v. 260; p. 232.
- Noah, Robert S., Annapolis, assignor to H. B. Reinhardt, trustee, Roland Park, Md. Disappearing tower for submarines. No. 1,296,689; Mar. 11; v. 260; p. 232.
- Nobbs, Walter W., London, England. Ventilator. No. 1,310,429; July 22; v. 264; p. 542.
- Nobel's Explosives Company. (See Rintoul and Beckett, assignors.)
- Nobel's Explosives Company. (See Rintoul and Stevenson, assignors.)
- Nobel's Explosives Company. (See Nathan, Rintoul, and Baker, assignors.)
- Nobel's Explosives Company Limited. (See Rintoul and Cross, assignors.)
- Noble, Andrew J., St. Paul, Minn. Resilient tire. No. 1,299,009; Apr. 1; v. 261; p. 90.
- Noble, Charles O. (See Young and Noble.)
- Noble, Elmer E., York, Pa. Chain-lock. No. 1,321,469; Nov. 11; v. 268; p. 274.
- Noble, Glenn S., Chicago, Ill. Garment-weight. No. 1,319,170; Oct. 21; v. 267; p. 376.
- Noble, Glenn S., Chicago, Ill. Massage-machine. No. 1,322,720; Nov. 25; v. 268; p. 611.
- Noble, Howard C., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Fastening. No. 1,310,920; July 22; v. 264; p. 633.
- Noble, Irvine M., and W. E. Gossling, assignors to The Prest-O-Lite Company, Inc., Indianapolis, Ind. Method of and tool for securing connecting parts of battery-plates. No. 1,302,699; May 6; v. 262; p. 41.
- Noble, Irvine M., and W. E. Gossling, Indianapolis, Ind., assignors to The Prest-O-Lite Company, Inc. Storage battery. No. 1,323,307; Dec. 2; v. 269; p. 16.
- Noble, John D., Poughkeepsie, N. Y. Advertising device. No. 1,321,662; Nov. 11; v. 268; p. 310.
- Noble, Paul O., Schenectady, N. Y., assignor to General Electric Company. Electric welding. No. 1,310,131; July 15; v. 264; p. 457.
- Noble, Ralph E., assignor to Morgan-Gardner Electric Company, Chicago, Ill. Mining-machine. No. 1,317,812; Oct. 7; v. 267; p. 29.
- Noble, William J., Kearney, Nebr. Demountable driving-wheel for motor-cycles. No. 1,301,160; Apr. 22; v. 261; p. 652.
- Nobles, Milton A., Philadelphia, assignor, by mesne assignments, to W. S. Russell, trustee, Carlisle, Pa. Gas-detector. No. 1,313,323; Aug. 19; v. 265; p. 328.
- Nocerino, Joseph, Pasadena, Calif. Quick-detachable mainspring-mounting for clocks and the like. No. 1,325,854; Dec. 23; v. 269; p. 618.
- Nock, Leo F. (See Pack and Nock.)
- Noe, John W. (See Davis, Mack H., assignor.)
- Noel, Eli, Kansas City, Mo. Front-wheel drive for automobiles. No. 1,324,062; Dec. 9; v. 269; p. 202.
- Noel, Eli, Kansas City, Mo. Gear. No. 1,324,063; Dec. 6; v. 269; p. 202.
- Noel, John C., Bellevue, Idaho. Sickie-grinder. No. 1,300,760; Apr. 15; v. 261; p. 530.
- Noel, Raymond, Sr., Dubois, Pa. Baby-walker. No. 1,294,300; Feb. 11; v. 259; p. 340.
- Noeth, John J., Chicago, Ill. Automatic gas-burner. No. 1,304,195; May 20; v. 262; p. 384.
- Noethlich, Ferdinand, Ute, Iowa. Dumping-carriage. No. 1,301,962; Apr. 29; v. 261; p. 838.
- Notke, Harry, Indianapolis, Ind. Lathe-chuck lifting and supporting device. No. 1,316,634; Sept. 23; v. 266; p. 470.
- Nottz, Harry R., and F. J. Schwimmer, Toledo, Ohio. Combined rotary earth-boring and draw machine. No. 1,312,565; Aug. 12; v. 265; p. 165.
- Nogar, August, Reading, Pa. Storm-garment. No. 1,322,602; Nov. 25; v. 268; p. 589.
- Nogrady, Andor T., Wichita, Kans. Driving-gearing for motor-vehicles. No. 1,316,918; Sept. 23; v. 266; p. 522.
- Noguera, Juan, and J. Doval, Buenos Aires, Argentina. Rotary air-compressor. No. 1,320,792; Nov. 4; v. 268; p. 81.
- Noiseless Typewriter Company, The. (See Anderson, Nils H., assignor.)
- Noiseless Typewriter Company, The. (See Going, George G., assignor.)
- Noiseless Typewriter Company, The. (See Ruffin, John A., assignor.)
- Nokes, Annie, et al. (See Jones, Jacob, assignor.)
- Nolan, Francis A., St. Paul, Minn. Shoe-heel. No. 1,290,774; Jan. 7; v. 258; p. 183.
- Nolan, Francis A., St. Paul, Minn. Fastener. No. 1,291,657; Jan. 14; v. 258; p. 415.
- Nolan, Francis A., St. Paul, Minn. Resilient shoe-heel. No. 1,292,360; Jan. 21; v. 258; p. 618.
- Nolan, Francis A., St. Paul, Minn. Shoe-sole. No. 1,297,720; Mar. 18; v. 260; p. 487.
- Nolan, Francis A., St. Paul, Minn. Rubber sole. No. 1,298,551; Mar. 25; v. 260; p. 690.
- Nolan, Francis A., St. Paul, Minn. Washer. No. 1,301,302; Apr. 22; v. 261; p. 681.
- Nolan, Francis A., St. Paul, Minn. Phonograph-top. No. 1,319,171; Oct. 21; v. 267; p. 376.
- Nolan, Francis A., St. Paul, Minn. Stop for sound-reproducing machines. No. 1,319,172; Oct. 21; v. 267; p. 376.
- Nolan, James A., Bowerston, Ohio. Safety device for mines. No. 1,293,519; Feb. 4; v. 259; p. 127.
- Nolan, James A., assignor to The Mining Safety Device Company, Bowerston, Ohio. Safety device for mines. No. 1,301,732; Apr. 22; v. 261; p. 763.
- Nolan, Thomas. (See Wilcox and Nolan.)
- Nolan, Thomas, assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Planishing device. No. 1,294,992; Feb. 18; v. 259; p. 536.
- Nolde & Horst Co., The. (See Robinson, Frank W., assignor.)
- Nolen, Robert R., Dallas, Tex. Apparatus for collecting and handling lint. No. 1,326,416; Dec. 30; v. 269; p. 759.
- Noll, Ralph, and C. C. Shephard, Chadron, Nebr. Puncture-closing solution. No. 1,302,416; Apr. 29; v. 261; p. 924.
- Noite, Fritz, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Alternating-current relay. No. 1,319,723; Oct. 28; v. 267; p. 503.
- Noite, George V., Bellingham, and J. E. Smith, Beach, Wash. Ignition-plug. No. 1,293,520; Feb. 4; v. 259; p. 127.
- Noite, Henry J., Schenectady, N. Y., assignor to General Electric Company. Electrode for vacuum discharge devices. No. 1,294,694; Feb. 18; v. 259; p. 467.
- Nomeland, Samuel K., Porter, Minn. Tool. No. 1,307,018; June 17; v. 263; p. 398.
- Nomoto, Tsunejiro, Seattle, Wash. Projectile. No. 1,303,713; May 13; v. 262; p. 258.
- Nomura, Hiroshi, Sendai, Japan. Extracting pungent principle from ginger-root. No. 1,306,710; June 17; v. 263; p. 342.
- Non-Explosive Can and Tube Company. (See Kessler, Louis, assignor.)
- Non-Explosive Device Co. (See Kessler, Louis, assignor.)
- Non Skid Company of America. (See Harrington, Albert H., assignor.)
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Die-stock. No. 1,292,025; Jan. 21; v. 258; p. 537.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Die-stock. No. 1,306,021; June 10; v. 263; p. 179.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Die-stock. No. 1,307,141; June 17; v. 263; p. 420.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,310,957; July 22; v. 264; p. 630.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,320,644; Nov. 4; v. 268; p. 53.
- Nonotuck Silk Company. (See Shearn, Joseph H., assignor.)



*Alphabetical list of patentees—Continued.*

- Nonpareil Toy & Novelty Co. (See Kessler, Emil, assignor.)
- Noonan, Albert S., assignor to Foss-Hughes Company, Philadelphia, Pa. Mechanical movement. No. 1,322,333; Nov. 18; v. 268; p. 486.
- Noonan, Frank M., Boston, Mass. Hair-clipper. No. 1,302,836; May 6; v. 262; p. 68.
- Noonan, John J., St. Louis, Mo. Cloth-measuring machine. No. 1,298,250; Mar. 25; v. 260; p. 626.
- Noonan, Thomas F., Chicago, Ill. Combined valve and lock therefor. No. 1,322,721; Nov. 25; v. 268; p. 611.
- Noppel, Emil, Philadelphia, Pa., assignor of one-half to J. E. Kennedy, New York, N. Y. Force and suction device. No. 1,304,196; May 20; v. 262; p. 384.
- Norager, Christ F. (See Reisfeld, Louis, assignor.)
- Norbeck, Nils T. (See Anderson and Norbeck.)
- Norby, Clarence J., Henderson, Colo. Signal-operating mechanism. No. 1,320,339; Oct. 28; v. 267; p. 618.
- Norby, John E., Stark, Mont., assignor of one-half to G. F. Fox, Missoula, Mont. Track laying and raising apparatus. No. 1,317,813; Oct. 7; v. 267; p. 29.
- Norcross, William C., Terre Haute, Ind. Attachment for rock-ramming molding-machines. No. 1,316,502; Sept. 16; v. 266; p. 297.
- Norcross, William C., assignor to American Molding Machine Company, Terre Haute, Ind. Producing composite castings and their products. No. 1,316,635; Sept. 23; v. 266; p. 470.
- Nord, Sverre, and A. Anderson, Sekiu, Wash. Loading-boom. No. 1,313,108; Aug. 12; v. 265; p. 271.
- Nordberg, Bruno V., Milwaukee, Wis. Pump and motor. No. 1,315,680; Sept. 9; v. 266; p. 228.
- Nordblad, Ernst, South Bend, Ind. Hosiery. No. 1,314,356; Aug. 26; v. 265; p. 558.
- Nordby, Kristoffer J., Sem, Jarlsberg, Norway. Ditch-digging machine. No. 1,295,576; Feb. 25; v. 259; p. 694.
- Nordell, Eskel, Chicago, Ill. Coating-machine. No. 1,323,644; Dec. 2; v. 269; p. 78.
- Nordensson, Carl O., assignor to Duquesne Burner Service Company, Pittsburgh, Pa. Gas-burner. No. 1,322,131; Nov. 18; v. 268; p. 448.
- Nordfors, Conrad. (See Wood and Nordfors.)
- Nordiska Kullager Aktiebolaget. (See Weibull, Ernst H. W., assignor.)
- Nordling, Karl E., and R. R. B. Bengtson, Åmål, Sweden. Twisted boiler-tube. No. 1,315,853; Sept. 9; v. 266; p. 261.
- Nordmann, George B., New Haven, Conn. Trough. No. 1,297,586; Mar. 18; v. 260; p. 458.
- Nordquist, Peter A., Ogden, Utah. Detachable plowshare edge. No. 1,307,790; June 24; v. 263; p. 571.
- Nordström, Abel, and C. A. Oberg, Buenos Aires, Argentina. Drying apparatus. No. 1,326,525; Dec. 30; v. 269; p. 780.
- Nordstrom, Elof, Newark, N. J., assignor to American Dan Stopper Company, Bridgeport, Conn. Web-feeding mechanism. No. 1,297,587; Mar. 18; v. 260; p. 458.
- Nordstrom, Elof, Newark, N. J., assignor to American Dan Stopper Company, Bridgeport, Conn. Bottle-capping machine. No. 1,303,580; May 13; v. 262; p. 233.
- Nordstrom, Elof, Newark, N. J., assignor to American Dan Stopper Company, Bridgeport, Conn. Bottle-capping machine. No. 1,303,581; May 13; v. 262; p. 234.
- Nordstrom, Sven J., Mexico, Mexico. Intermittent-discharge mechanism for settling-tanks and the like. No. 1,317,588; Sept. 30; v. 266; p. 686.
- Nordwald, Otto. (See Boster, John N., assignor.)
- Nordwick, Henry A., and W. A. Barth, Stockton, Calif. Endless track for tractors. No. 1,300,455; Apr. 15; v. 261; p. 466.
- Nordyke, Addison H., and J. E. Norris, assignors to Indianapolis Manufacturing Company, Indianapolis, Ind. Wood-strip-cutting machine. No. 1,313,325; Aug. 19; v. 265; p. 328.
- Nordyke, Horace W., assignor to Indianapolis Manufacturing Company, Indianapolis, Ind. Separator for storage batteries. No. 1,313,324; Aug. 19; v. 265; p. 328.
- Nordyke & Marmon Company. (See Ziegler, Leslie I., assignor.)
- Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Grouser for endless-chain tracks. No. 1,304,357; May 20; v. 262; p. 416.
- Norelius, Emil F., assignor to Holt Manufacturing Company, Peoria, Ill. Trailer-wagon. No. 1,317,653; Sept. 30; v. 266; p. 698.
- Norelius, Emil F., and W. Turnbull, Peoria, Ill., assignors to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame construction. No. 1,317,654; Sept. 30; v. 266; p. 699.
- Norfolk, Joseph R. B., assignor to Natural Movement Arm and Appliance Company, Chicago, Ill. Artificial limb. No. 1,293,885; Feb. 11; v. 259; p. 242.
- Norlen, Jonas V., Youngstown, Alberta, Canada. Saw-set. No. 1,302,581; May 6; v. 262; p. 19.
- Norling, Oscar, Gottenborg, Sweden. Means for securing tarpaulins and similar coverings upon ships' hatches. No. 1,319,610. Oct. 21; v. 267; p. 459.
- Norling Rotary Engine Company, The. (See Johanson, Emil G., assignor.)
- Norlund, Olaf A., Williamsport, Pa. Lifting-jack. No. 1,304,358; May 20; v. 262; p. 417.
- Norman, Carl A., Columbus, Ohio. Continuous-combustion engine. No. 1,302,582; May 6; v. 262; p. 19.
- Norman, Carl G., Fargo, N. D. Pipe threading and cutting tool. No. 1,314,692; Sept. 2; v. 266; p. 42.
- Norman, Charles O., Montgomery, Ala. Automobile-curtain. No. 1,317,937; Oct. 7; v. 267; p. 52.
- Norman, Cornelius A., deceased, Bryson, Tex.; M. E. Norman, administratrix. Railway-gate. No. 1,326,609; Dec. 30; v. 269; p. 796.
- Norman, Edward R., Chicago, Ill. Making packing-rings. No. 1,292,633; Jan. 28; v. 258; p. 705.
- Norman, Frank, Des Moines, Iowa, assignor of seven thirty-seconds to W. A. McAtee, four thirty-seconds to A. B. Lovan, two thirty-seconds to G. W. Young, one thirty-second to W. T. Shores, Springfield, Ohio, two thirty-seconds to C. H. Nichols, New York, N. Y., and eight thirty-seconds to O. R. McAtee, Springfield, Mo. Acetylene generating and supply system for automobiles. No. 1,303,946; May 20; v. 262; p. 339.
- Norman, Mary E., administratrix. (See Norman, Cornelius A.)
- Norman, Sterling E., Franklin, Mass. Grease-cup support. No. 1,317,938; Oct. 7; v. 267; p. 52.
- Norman, Trygve. (See Bonde and Norman.)
- Norman, William F., Nevada, Mo. Collapsible metal fireplace. No. 1,322,603; Nov. 25; v. 268; p. 589.
- Normand, Henry S., Waterbury, Conn., assignor to Penn Rivet Corporation, Philadelphia, Pa. Snap-fastener. No. 1,315,569; Sept. 9; v. 266; p. 210.
- Normandy, Charles R., assignor to Standard Morn Bag Company, Washington, D. C. Spreader and hanger for receptacles. No. 1,290,299; Jan. 7; v. 258; p. 69.
- Normandy, Charles R., assignor to Standard Morn Bag Company, Washington, D. C. Clothes-receptacle. No. 1,316,919; Sept. 23; v. 266; p. 522.
- Normoyle, Daniel J., assignor to Alert Tool Company, Philadelphia, Pa. Wrench. No. 1,299,764; Apr. 8; v. 261; p. 291.
- Noro, Seikichi, Midland Park, N. J. Attachment for horseshoes. No. 1,307,636; June 24; v. 263; p. 543.
- Norquist, Emanuel E., Kansas City, Mo. Sheet-metal garage. No. 1,325,855; Dec. 23; v. 269; p. 618.
- Norris, Alexander, Dexter City, Ohio. Convertible self-grinding hoe. No. 1,312,802; Aug. 12; v. 265; p. 211.
- Norris, Almon E., Cambridge, Mass. Conveying structure. No. 1,299,010; Apr. 1; v. 261; p. 90.
- Norris, Almon E., Brookline, Mass. Hoisting apparatus. No. 1,304,359; May 20; v. 262; p. 417.
- Norris, Almon E., Cambridge, Mass. Rail-clamp for conveying structures. No. 1,308,859; July 8; v. 264; p. 184.
- Norris, Almon E., Cambridge, Mass. Buffer device. No. 1,323,608; Dec. 2; v. 269; p. 72.
- Norris, Charles D., Chicago, Ill. Convertible truck. No. 1,302,204; Apr. 29; v. 261; p. 883.
- Norris, Daniel E., assignor of one-half to F. H. Norris, Robinson, Ill. Wrench. No. 1,322,722; Nov. 25; v. 268; p. 611.
- Norris, Frank H. (See Norris, Daniel E., assignor.)
- Norris, Harry H., North Troy, N. Y. Cotter-pin puller. No. 1,321,140; Nov. 11; v. 268; p. 211.
- Norris, Henry M., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Friction-clutch. (Re-issue.) No. 14,755; Nov. 18; v. 268; p. 521.
- Norris, Howard T., Baltimore, Md. Offset for pedals of automobiles. No. 1,302,837; May 6; v. 262; p. 68.
- Norris, John E. (See Nordyke and Norris.)
- Norris, Nelson H., assignor to Renfrew Machinery Company Limited, Renfrew, Ontario, Canada. Combination differential direct-power drive and friction-clutch pulley. No. 1,305,616; June 3; v. 263; p. 75.
- Norris, William H. H. (See Bailey, Denny, and Norris.)
- Norris, William E., Washington, D. C. Tool for adjusting journals. No. 1,311,836; July 29; v. 264; p. 836.
- Norris, Willard J., Charleston, W. Va. Headlight. No. 1,308,858; July 8; v. 264; p. 184.
- Norrman, Axel E., Portland, Me. Adjusting device for drawing-pens. No. 1,316,800; Sept. 23; v. 266; p. 501.
- Norsk Alkali A. S. (See Rüber, Claus N., assignor.)
- Norsk Elektrisk Metalindustri Aktieselskab. (See Huidt, Sven, assignor.)
- Norsk Hydro-elektrisk Kvaelfstoftaktieselskab. (See Blom, Hans, assignor.)
- Norsk Hydro-elektrisk Kvaelfstoftaktieselskab. (See Foss, Antonius, assignor.)
- Norsk Hydro-elektrisk Kvaelfstoftaktieselskab. (See Grüner, Vilhelm, assignor.)
- Norsk Hydro-elektrisk Kvaelfstoftaktieselskab. (See Halvorsen, Birger F., assignor.)
- Norsk Hydro-elektrisk Kvaelfstoftaktieselskab. (See Heier, Sigurd, assignor.)
- Norsk Hydro-elektrisk Kvaelfstoftaktieselskab. (See Jensen, Olaf, assignor.)
- Norsk Hydro-elektrisk Kvaelfstoftaktieselskab. (See La Cour, Jens L., assignor.)
- Norsk Hydro-elektrisk Kvaelfstoftaktieselskab. (See Nystedt, Aksel, assignor.)



- Norstrom, Nils E., Chicago, Ill. Party-line telephone-exchange. No. 1,326,212; Dec. 30; v. 269; p. 721.
- Norstrom, Nils E., assignor to C. L. Redfield, trustee, Chicago, Ill. Vaporizing liquids. No. 1,323,308; Dec. 2; v. 269; p. 16.
- North American Chemical Company. (See Thoma, Andrew, assignor.)
- North Bro's Mfg Co. (See Fegley and Leopold, assignors.)
- North, Charles H., Cleveland, Ohio. Fountain-pen. No. 1,302,417; Apr. 29; v. 261; p. 924.
- North East Electric Company. (See Croll, Albert J., assignor.)
- North East Electric Company. (See Dorsey, Farnum F., assignor.)
- North East Electric Company. (See Halbleib, Edward A., assignor.)
- North East Electric Company. (See Halbleib and Banner, assignors.)
- North East Electric Company. (See Hutchins, William H., assignor.)
- North East Electric Company. (See Lee, Earle P. and T. L., assignors.)
- North, Fred K., Winchester, Mass., assignor to Chapman Manufacturing Company. Spinning-spindle. No. 1,292,026; Jan. 21; v. 258; p. 537.
- North, George W., La Tuna, assignor of one-half to H. M. Andreas, El Paso, Tex. Horse-power apparatus. No. 1,292,857; Jan. 28; v. 258; p. 757.
- North, James S., assignor to The C. J. White Manufacturing Company, New Britain, Conn. Hose-supporter. No. 1,294,146; Feb. 11; v. 259; p. 304.
- North, John D., Burgh Apton, assignor of one-half to Boulton & Paul Limited, Norwich, Norfolk, England. Control device for aircraft. No. 1,318,171; Oct. 7; v. 267; p. 97.
- North, John D., Burgh Apton, assignor of one-half to Boulton & Paul Limited, Norwich, Norfolk, England. Engine fairing or casing for aircraft. No. 1,321,070; Nov. 4; v. 268; p. 134.
- North & Judd Manufacturing Company, The. (See Carmill and Hancock, assignors.)
- North & Judd Manufacturing Company, The. (See Noble, Howard C., assignor.)
- North & Judd Manufacturing Company, The. (See Stephens, Anson H., assignor.)
- North & Judd Manufacturing Company, The. (See Troop, George W., assignor.)
- North, Oliver D., assignor to Straker-Squire Limited, London, England. Motor road-vehicle. No. 1,326,772; Dec. 30; v. 269; p. 826.
- North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Bomb. No. 1,298,377; Mar. 25; v. 260; p. 651.
- North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,299,011; Apr. 1; v. 261; p. 91.
- North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,299,012; Apr. 1; v. 261; p. 91.
- North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Driving-band of projectiles. No. 1,299,013; Apr. 1; v. 261; p. 91.
- North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Mounting for automatic guns. No. 1,304,591; May 27; v. 262; p. 500.
- North, Thomas K., assignor to Vickers Limited, Westminster, London, England. Submarine mine. No. 1,309,909; July 15; v. 264; p. 417.
- North, Thomas K., Crayford, assignor to Vickers Limited, Westminster, London, England. Breech-loading ordnance. No. 1,326,213; Dec. 30; v. 269; p. 721.
- North, Thomas K., London, assignor to Vickers Limited, Westminster, England. Submarine mine. No. 1,318,687; Oct. 14; v. 267; p. 257.
- North, Thomas K., Westminster, London, assignor to Vickers Limited, Westminster, England. Submarine mine. No. 1,299,601; Apr. 8; v. 261; p. 252.
- North, Thomas K., Westminster, London, assignor to Vickers Limited, Westminster, England. Submarine mine. No. 1,312,846; Aug. 5; v. 265; p. 91.
- North-Western Expanded Metal Co. (See Turner, Edgar A., assignor.)
- Northall, William H., assignor of one-fourth to S. C. James and one-fourth to H. Males, Evansville, Ind. Automobile-tire. No. 1,302,418; Apr. 29; v. 261; p. 924.
- Northcott, Theodore C., Luray, Va. Flycatcher. No. 1,311,704; July 29; v. 264; p. 811.
- Northcutt, John, and M. Crawford, Silvertown, Tex. Agricultural machine. No. 1,326,773; Dec. 30; v. 269; p. 827.
- Northern Equipment Company. (See Andrews, Roger W., assignor.)
- Northern Trust Company, The, trustee. (See Lang, Lincoln A., assignor.)
- Northover, Harry R., Winnipeg, Manitoba, Canada. Machine for filling the magazines of machine-guns. No. 1,313,727; Aug. 19; v. 265; p. 404.
- Northrop, Irvin A., Lorain, Ohio. Sound recording and reproducing machine. No. 1,292,858; Jan. 28; v. 258; p. 757.
- Northrop, James H., Indio, Calif. Date-foed product and making the same. No. 1,307,691; June 24; v. 263; p. 553.
- Northrop, James H., Indio, Calif. Date-shredder. No. 1,307,692; June 24; v. 263; p. 553.
- Northrop, James H., Indio, Calif. Machine for cleaning dates. No. 1,307,693; June 24; v. 263; p. 554.
- Northrop, John H., assignor to The Rockefeller Institute for Medical Research, New York, N. Y. Production of acetone. No. 1,293,172; Feb. 4; v. 259; p. 46.
- Northrop, Jonas. (See Draper and Northrop.)
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Automatic feeding mechanism. No. 1,317,383; Sept. 30; v. 266; p. 646.
- Northrup, Early, San Antonio, Tex. Filter. No. 1,293,173; Feb. 4; v. 259; p. 46.
- Northrup, Edwin F., Princeton, N. J., assignor to The Ajax Metal Company, Philadelphia, Pa. Production of chemical changes by oscillatory discharge. No. 1,297,393; Mar. 18; v. 260; p. 418.
- Northrup, Edwin F., Princeton, assignor to Pyroelectric Instrument Co., Trenton, N. J. Pyrometric method and apparatus. No. 1,323,509; Dec. 2; v. 269; p. 16.
- Northrup, Elmer C., San Jose, Calif. Box-printing machine. No. 1,317,451; Sept. 30; v. 266; p. 659.
- Northrup, King & Co. (See Williams, Herman H., assignor.)
- Northwestern Knitting Company. (See Chatfield, Franklin, assignor.)
- Nortier, Louis F., Brooklyn, N. Y. Detonating device. No. 1,290,300; Jan. 7; v. 258; p. 70.
- Northman, William F., Jr., Chicago, Ill. Fireproof guard for cables, belts, and other flexible transmission elements. No. 1,318,796; Oct. 14; v. 267; p. 277.
- Norton, A. O. (See Gormley, Frank L., assignor.)
- Norton, Allen B., Detroit, Mich., assignor to The Aluminum Castings Company, Cleveland, Ohio. Mold. No. 1,296,594; Mar. 4; v. 260; p. 174.
- Norton, Allen B., assignor to The Aluminum Castings Company, Cleveland, Ohio. Making castings. No. 1,296,595; Mar. 4; v. 260; p. 174.
- Norton, Allen B., Detroit, Mich. Internal-combustion motor. No. 1,311,242; July 29; v. 264; p. 725.
- Norton, Charles H., and A. Turner, Worcester, Mass., assignors to Norton Grinding Company. Multiple-speed device. No. 1,299,765; Apr. 8; v. 261; p. 291.
- Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Double-head grinding-machine. No. 1,304,799; May 27; v. 262; p. 539.
- Norton, Charles W. (See Hutchison and Norton.)
- Norton, Charles W., assignor to Edison Storage Battery Company, West Orange, N. J. Galvanic battery. No. 1,297,487; Mar. 18; v. 260; p. 437.
- Norton Company. (See Jeppson and Dietz, assignors.)
- Norton Company. (See Katzenstein, Leon L., assignor.)
- Norton Company. (See King, Clarence R., assignor.)
- Norton Company. (See Spence, John C., assignor.)
- Norton, Edward G. (See Harbeck and Norton.)
- Norton, Edwin, deceased; L. E. Norton executrix, assignor to Perfect Vacuum Canning Company, New York, N. Y. Jar-closure. No. 1,308,606; July 1; v. 264; p. 109.
- Norton, Frank C., Salina, Kans. Shaving-brush. No. 1,315,854; Sept. 9; v. 266; p. 261.
- Norton, Frank L., Los Angeles, Calif. Form for concrete work and structures produced therefrom. No. 1,321,938; Nov. 18; v. 268; p. 413.
- Norton, Fred E., assignor to Jefferies-Norton Corporation, Worcester, Mass. Refrigeration. No. 1,292,958; Jan. 28; v. 258; p. 781.
- Norton, Frederick G. (See Babcock and Norton.)
- Norton Grinding Company. (See Dunbar, Howard W., assignor.)
- Norton Grinding Company. (See Norton, Charles H., assignor.)
- Norton Grinding Company. (See Norton and Turner, assignors.)
- Norton, Guy A., assignor to Los Angeles Trailer Company, Los Angeles, Calif. Steering control for trailers. No. 1,319,303; Oct. 21; v. 267; p. 400.
- Norton, Horatio N., Los Angeles, Cal. Engine starting device. No. 1,293,886; Feb. 11; v. 259; p. 243.
- Norton, John L., Chicago, Ill. Automobile-signal. No. 1,291,613; Jan. 14; v. 258; p. 404.
- Norton, Lewis C., Chicago, Ill. Door-closer. No. 1,319,173; Oct. 21; v. 267; p. 376.
- Norton, Lucy E., executrix. (See Norton, Edwin.)
- Norton, Moses G., Los Angeles, Cal. Key-lock. No. 1,293,616; Feb. 4; v. 259; p. 149.
- Norton, Ralph H., and W. C. Fork, assignors to Acme Steel Goods Company, Chicago, Ill. Box-strap-sealing implement. No. 1,322,723; Nov. 25; v. 268; p. 611.
- Norton, Thomas J., et al. (See Upton, Roy M., assignor.)
- Norton, Wallace E., Gretna, Nebr. Self-locking hinge. No. 1,294,301; Feb. 11; v. 259; p. 340.
- Norton, William F., Chicago, Ill. Vehicle-body. No. 1,312,422; Aug. 5; v. 265; p. 106.
- Norvell, Lorenzo, trustee. (See Dillon, Edward L., assignor.)
- Norwalk, Albert B., New York, N. Y. Motor-vehicle. No. 1,317,814; Oct. 7; v. 267; p. 29.
- Norwalk Auto Parts Company, The. (See Stockwell, Ivan A., assignor.)



## Alphabetical list of patentees—Continued.

- Norwich Automatic Feeder Company, Ltd., The. (See Walker and Enos, assignors.)
- Norwich Woolen Mills Company, The. (See Morris, Matthew, assignor.)
- Norwood, Harry G., assignor of sixty per cent. to G. R. Holmes and twenty-five per cent. to W. J. Wisch, Baltimore, Md. Nut-lock. No. 1,319,894; Oct. 28; v. 267; p. 535.
- Norwood, Harry X., and F. W. Stalker, assignors to Taylor Instrument Companies, Rochester, N. Y. Recording apparatus. No. 1,323,374; Dec. 2; v. 269; p. 29.
- Norwood, John E., Baltimore, Md. Piston-ring. No. 1,304,360; May 20; v. 262; p. 417.
- Norwood Novelty Company. (See Welch, Henry, assignor.)
- Noser, Emil V., St. Louis, Mo. Lock for shift-levers of automobiles. No. 1,313,412; Aug. 19; v. 265; p. 345.
- Notenboom, Pieter, Rotterdam, Netherlands. Fruit-sorting machine. No. 1,310,921; July 22; v. 264; p. 633.
- Notman, Clarence A., Detroit, Mich. Stove. No. 1,302,419; Apr. 29; v. 261; p. 924.
- Nottage, Stanley G. (See Hellmund and Nottage.)
- Nottage, Stanley G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,294,147; Feb. 11; v. 259; p. 304.
- Nottage, Stanley G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of starting phase-converters. No. 1,298,774; Apr. 1; v. 261; p. 37.
- Nottingham, Edwin I., Washington, D. C. Power-jack. No. 1,322,935; Nov. 25; v. 268; p. 651.
- Nouvenne, Giulio, Milan, Italy. Apparatus for sharpening safety-razor blades. No. 1,317,095; Sept. 23; v. 266; p. 556.
- Novak, Edward S., Glassport, Pa. Game-board. No. 1,301,867; Apr. 29; v. 261; p. 819.
- Novak, John A., assignor of one-fourth to J. Zlelinski, East Chicago, Ind. Windmill-pump. No. 1,317,815; Oct. 7; v. 267; p. 29.
- Novick, Abraham, New York, N. Y. Coupling. No. 1,325,902; Dec. 23; v. 269; p. 627.
- Novick, Abraham, New York, N. Y., assignor to United States Envelope Company, Springfield, Mass. Chip-moving mechanism. No. 1,290,301; Jan. 7; v. 258; p. 70.
- Novick, Abraham, New York, N. Y., assignor to United States Envelope Company, Springfield, Mass. Envelope-machine. No. 1,291,089; Jan. 14; v. 258; p. 284.
- Novick, Abraham, New York, N. Y., assignor, by mesne assignments, to United States Envelope Company, Springfield, Mass. Folding-machine. No. 1,298,775; Apr. 1; v. 261; p. 37.
- Novick, Abraham, New York, N. Y., assignor to United States Envelope Company, Springfield, Mass. Envelope-machine. No. 1,298,776; Apr. 1; v. 261; p. 38.
- Novick, Abraham, New York, N. Y., assignor to United States Envelope Company, Springfield, Mass. Folding mechanism. No. 1,303,370; May 13; v. 262; p. 196.
- Novick, Abraham, New York, N. Y., assignor to United States Envelope Company, Springfield, Mass. Blank-forming mechanism. No. 1,303,371; May 13; v. 262; p. 196.
- Novick, Abraham, New York, N. Y., assignor, by mesne assignments, to United States Envelope Company, Springfield, Mass. Cutting mechanism for envelop-blanks. No. 1,310,922; July 22; v. 264; p. 633.
- Novick, Abraham, New York, N. Y., assignor to United States Envelope Company, Springfield, Mass. Envelop-blank cutting and forwarding mechanism. No. 1,310,923; July 22; v. 264; p. 633.
- Novick, Abraham, assignor to F. L. Schmidt Company, New York, N. Y. Blank-feeding mechanism. No. 1,296,690; Mar. 11; v. 260; p. 232.
- Novick, Abraham, New York, N. Y., assignor to F. L. Schmidt Company. Adjustable cutter for envelop-machines. No. 1,306,499; June 10; v. 263; p. 270.
- Novick, Max, New York, N. Y. Adjustable bed. No. 1,306,614; June 10; v. 263; p. 291.
- Novikoff, George J., Philadelphia, Pa. Hand-grenade. No. 1,295,577; Feb. 25; v. 259; p. 694.
- Novo Manufacturing Company. (See Dunn, Jay E., assignor.)
- Novobilskie, Joseph. (See Plucinsky, Novobilskie, and Dziga.)
- Novomiroff, Andrew, New York, N. Y. Combination-table. No. 1,322,132; Nov. 18; v. 268; p. 448.
- Novomiroff, Andrew, New York, N. Y. Extensible spurred wheel. No. 1,324,563; Dec. 9; v. 269; p. 299.
- Novotny, Emil E., Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Printing-plate matrix. No. 1,319,106; Oct. 21; v. 267; p. 362.
- Novotny, Emil E., Riverside, Ill., assignor to J. Stogdell Stokes, Moorestown, N. J. Cylindrical printing-plate. No. 1,319,107; Oct. 21; v. 267; p. 362.
- Novy, Anthony, Rapid City, S. D. Tire-armor. No. 1,305,400; June 3; v. 263; p. 32.
- Novy, Theodore F., Chicago, Ill. Clamp for column-molds. No. 1,290,646; Jan. 7; v. 258; p. 153.
- Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Pouring-spout. No. 1,301,868; Apr. 29; v. 261; p. 820.
- Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Non-refillable container. No. 1,304,800; May 27; v. 262; p. 539.
- Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Hermetically-sealed box. No. 1,324,207; Dec. 9; v. 269; p. 230.
- Nowell, Herbert T., Billings, Mont., assignor to F. C. Austin, Chicago, Ill. Projectile. No. 1,296,310; Mar. 4; v. 260; p. 112.
- Nowosielski, Edward B., Bloomfield, assignor to Splittdorf Electrical Company, Newark, N. J. Binding-post for electric cables. No. 1,305,153; May 27; v. 262; p. 605.
- Noxon, Benjamin, Denver, Colo. Garment. No. 1,303,947; May 20; v. 262; p. 340.
- Noxon, Franklin F., Venice, assignor of one-half to J. J. Jenkins, Los Angeles, Cal. Fish-bait and making the same. No. 1,291,614; Jan. 14; v. 258; p. 405.
- Noyes, Jesse D., Pleasantville, Pa. Gripping-tool. No. 1,311,991; Aug. 5; v. 265; p. 26.
- Noziska, John C., Colome, S. D. Marker and divider for merchandise. No. 1,317,589; Sept. 30; v. 266; p. 687.
- Nuckols, Claude C., Menands, N. Y. Base-board-concealed radiator. No. 1,301,589; Apr. 22; v. 261; p. 734.
- Nugent, Anthony F., New York, N. Y. Awning-fixture. No. 1,318,226; Oct. 7; v. 267; p. 109.
- Nugent, Robert A., Somerville, Mass. Making open cores. No. 1,310,768; July 22; v. 264; p. 605.
- Nuhring, Charles, Cincinnati, Ohio. Hose-rack. No. 1,316,734; Sept. 23; v. 266; p. 490.
- Nuhring, Charles, Cincinnati, Ohio. Hose-reel. No. 1,322,604; Nov. 25; v. 268; p. 590.
- Nulomoline Company, The. (See Booker, James P., assignor.)
- Nunn, Archie L., et al. (See Love, Sandy H., assignor.)
- Nunnally & McCrea Co. (See Greenleaf, Joseph, assignor.)
- Nunnally, Robert B., Mission, Tex. Attachment for plows. No. 1,291,615; Jan. 14; v. 258; p. 405.
- Nunnelley, Emmett C. (See Loventhal and Nunnelley.)
- Nutting, Alfred B. and H. R., Amesbury, Mass. Clutch. No. 1,292,859; Jan. 28; v. 258; p. 758.
- Nurock, Adolph B., assignor of one-half to McMillan & Werner, New York, N. Y. Egg-boiler. No. 1,323,543; Dec. 2; v. 269; p. 61.
- Nussbeck, Richard, Lakebay, Wash. Game device. No. 1,317,640; Sept. 30; v. 266; p. 696.
- Nut Lock Company, The. (See Hardisty, Henry, assignor.)
- Nute, Harry Y. (See Fernald and Nute.)
- Nutting, Charles E., assignor to Draper Corporation, Hopedale, Mass. Loom-frog. No. 1,322,605; Nov. 25; v. 268; p. 590.
- Nutting, Harvey R. (See Nutting, Alfred B. and H. R.)
- Nutting, Louis B., Pelham, N. Y., assignor to Power Specialty Company, New York, N. Y. Anchoring means for superheaters. No. 1,313,326; Aug. 19; v. 265; p. 328.
- Nutting, Perley G., Pittsburgh, Pa. Range-finder. No. 1,317,213; Sept. 30; v. 266; p. 614.
- Nutting, Perley G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mercury-arc lamp. No. 1,320,087; Oct. 28; v. 267; p. 1.
- Nuzum, William, New York, N. Y. Necktie. No. 1,291,090; Jan. 14; v. 258; p. 284.
- Nyberg, Carl S., Mellösa, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Vertical turning and boring mill. No. 1,301,303; Apr. 22; v. 261; p. 681.
- Nyblom, Ture L., Sattsjö-Storängen, Sweden. Weighing apparatus. No. 1,312,132; Aug. 5; v. 265; p. 53.
- Nye, Alvin F., assignor, by mesne assignments, to Food Appliances Manufacturing Corporation, Rochester, N. Y. Machine for forming butter-patties. No. 1,322,042; Nov. 18; v. 268; p. 431.
- Nye, Carl H., and R. W. Beardsley, Marietta, Ohio. Stock-feeder. No. 1,315,855; Sept. 9; v. 266; p. 261.
- Nye, Charles W., assignor to The Minnesota Stove Company, Minneapolis, Minn. Reservoir for ranges. No. 1,300,456; Apr. 15; v. 261; p. 466.
- Nye, Charles W., Minneapolis, Minn., assignor to The Minnesota Stove Company. Range. No. 1,309,099; July 8; v. 264; p. 230.
- Nye, Charles W., Minneapolis, Minn., assignor to The Minnesota Stove Company. Convertible oven for ranges. No. 1,309,100; July 8; v. 264; p. 230.
- Nye, Clyde M., assignor to J. H. Nye, Emmett, Idaho. Switch. No. 1,310,430; July 22; v. 264; p. 543.
- Nye, John H. (See Nye, Clyde M., assignor.)
- Nyenhuus, John H., Chicago, Ill. Propeller for vehicles. No. 1,305,401; June 3; v. 263; p. 32.
- Nygard, Christian, Moose Jaw, Saskatchewan, Canada. Shocking-machine. No. 1,297,394; Mar. 18; v. 260; p. 418.
- Nyhagen, Barney R., New York, N. Y. Gas-engine valve. No. 1,318,227; Oct. 7; v. 267; p. 109.
- Nyholm, Peter N., Edgewood, Wash. Extension-table. No. 1,302,420; Apr. 29; v. 261; p. 925.
- Nyman, Gunnar. (See Carlberg and Nyman.)
- Nyman, John H., Ewen, Mich. Spike and rail holder. No. 1,324,614; Dec. 9; v. 269; p. 308.
- Nyquist, Carl J., Chicago, Ill. Conduit-equipped structure. No. 1,304,197; May 20; v. 262; p. 385.
- Nyquist, Carl J., Chicago, Ill. Torch. No. 1,304,198; May 20; v. 262; p. 385.



- Nyquist, Carl J., Chicago, Ill. Clamping hose-lines. No. 1,309,332; July 8; v. 264; p. 273.
- Nyrop, Julian C., Hastings, Nebr. Pole-erector. No. 1,317,816; Oct. 7; v. 267; p. 29.
- Nystedt, Aksel, Stabaek, near Christiania, assignor to Norsk Hydro-Elektrisk Kvaestofaktieselskab, Christiania, Norway. Stop-cock for conduits and the like. No. 1,315,681; Sept. 9; v. 266; p. 228.
- Nystrom, Charles, New York, N. Y. Sash-holder for windows. No. 1,307,306; June 17; v. 263; p. 450.
- Nystrom, Karl F. (See Coleman, James M., assignor.)
- Nystrom, Karl F. (See Coleman and Nystrom.)
- Nystrom, Karl F., Montreal, Quebec, Canada. Car-roof. No. 1,297,488; Mar. 18; v. 260; p. 437.
- Nystrom, Karl F., Montreal, Quebec, Canada, assignor to W. H. Miner, Chazy, N. Y. Friction draft-rigging. No. 1,303,372; May 13; v. 262; p. 196.
- Nyvall, Yngve J., Missoula, Mont. Fluid-purifying apparatus. No. 1,290,647; Jan. 7; v. 258; p. 153.
- O. A. Albrecht Company. (See Albrecht, Oscar A., assignor.)
- O. and J. Machine Company, The. (See Johnson and Oslund, assignors.)
- O. K. Dental Articulator Corporation. (See O'Keefe, James M., assignor.)
- O. K. Electric Storage Battery Co. (See Rueb, Earl J., assignor.)
- O. M. Edwards Company, The. (See Axe, Roy T., assignor.)
- O. M. Edwards Company. (See Stuck, Everett, assignor.)
- O. P. Schriver Company, The. (See Happensack, Edward F., assignor.)
- O'Bannon, W. D., et al. (See May, Harry E., assignor.)
- O'Bannon, William D. (See May, Harry E., assignor.)
- O'Brien, Cornelius P., Omaha, Nebr. Resilient wheel-tire. No. 1,304,801; May 27; v. 262; p. 539.
- O'Brien, Daniel, Palestine, Tex. Swivel-joint. No. 1,303,714; May 13; v. 262; p. 258.
- O'Brien, David J., et al. (See Willert, John E., assignor.)
- O'Brien, Dennis. (See Ahearn, John J., assignor.)
- O'Brien, Edmund H., Kansas City, Mo. Heating appliance for carbureters. No. 1,308,860; July 8; v. 264; p. 184.
- O'Brien, John. (See Miller, Joseph C., assignor.)
- O'Brien, John, St. Paul, Minn. Envelop. No. 1,305,304; June 3; v. 263; p. 14.
- O'Brien, John B., New York, N. Y. Telescope. No. 1,290,777; Jan. 7; v. 258; p. 184.
- O'Brien, John E. (See Harter, Charles, assignor.)
- O'Brien, John E., Natoma, Kans. Puzzle. No. 1,325,369; Dec. 16; v. 269; p. 510.
- O'Brien, Joseph C., Pittsburgh, Pa., assignor, by mesne assignments, to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,326,610; Dec. 30; v. 269; p. 796.
- O'Brien, Joseph F., West New York, N. J. Engaging and disengaging gear for ships' boats. No. 1,298,777; Apr. 1; v. 261; p. 38.
- O'Brien, Joseph F., New York, N. Y. Window-closure. No. 1,310,367; July 15; v. 264; p. 499.
- O'Brien, Matthew M., Brooklyn, N. Y. Slip-resisting overshoe for animals. No. 1,303,373; May 13; v. 262; p. 197.
- O'Brien, R. P., et al. (See Graf, Sydney H., assignor.)
- O'Brien, Thomas, Waterloo, Sydney, New South Wales, Australia, and J. McLoughlin, Ilford, England. Rug for animals. No. 1,293,521; Feb. 4; v. 259; p. 127.
- O'Brien, Thomas F. I., Brooklyn, N. Y. Oil-burner. No. 1,298,378; Mar. 25; v. 260; p. 651.
- O'Bryan, Sarah E., Jerome, Ariz. Work-box or similar receptacle. No. 1,323,405; Dec. 2; v. 269; p. 34.
- O'Byrne, Joseph and M. M., Walsenburg, Colo. Dish-washing machine. No. 1,323,199; Nov. 25; v. 268; p. 702.
- O'Byrne, Maude M. (See O'Byrne, Joseph and M. M.)
- O'Callaghan, Denis, Subiaco, Western Australia, Australia. Pour-out device for petrol and like cans. No. 1,293,522; Feb. 4; v. 259; p. 128.
- O'Connell, Edward, West Philadelphia, Pa. Spark-plug. No. 1,299,997; Apr. 8; v. 261; p. 340.
- O'Connell, Edward J., Fort Wayne, Ind., assignor to Deister Concentrator Company. Ore-concentrating table. No. 1,291,616; Jan. 14; v. 258; p. 405.
- O'Connell, Irvin. (See Siegel and O'Connell.)
- O'Connell, William, Detroit, Mich. Dredging apparatus. No. 1,307,370; June 24; v. 263; p. 495.
- O'Connor, Christopher D., Chicago, Ill. Shoe-fastener. No. 1,325,409; Dec. 16; v. 269; p. 518.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear. No. 1,290,304; Jan. 7; v. 258; p. 71.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Car construction. No. 1,290,305; Jan. 7; v. 258; p. 71.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car side bearing. No. 1,290,306; Jan. 7; v. 258; p. 71.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorbing mechanism. No. 1,290,307; Jan. 7; v. 258; p. 71.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Stop-casting. No. 1,290,308; Jan. 7; v. 258; p. 71.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging cheek-plate. No. 1,290,309; Jan. 7; v. 258; p. 72.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Means for recording actions of railway draft-gears. No. 1,290,310; Jan. 7; v. 258; p. 72.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorbing mechanism. No. 1,290,311; Jan. 7; v. 258; p. 72.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,290,312; Jan. 7; v. 258; p. 73.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,290,313; Jan. 7; v. 258; p. 73.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Universally-adjustable roller side bearing. No. 1,290,314; Jan. 7; v. 258; p. 73.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Spring shock-absorber. No. 1,290,315; Jan. 7; v. 258; p. 73.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear. No. 1,290,316; Jan. 7; v. 258; p. 73.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,290,317; Jan. 7; v. 258; p. 74.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Recording device. No. 1,290,318; Jan. 7; v. 258; p. 74.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Combined side bearing and truck-alining device. No. 1,290,319; Jan. 7; v. 258; p. 74.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorber for vehicles. No. 1,290,320; Jan. 7; v. 258; p. 74.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side casting. No. 1,290,321; Jan. 7; v. 258; p. 75.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,290,322; Jan. 7; v. 258; p. 75.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,290,323; Jan. 7; v. 258; p. 75.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear. No. 1,290,324; Jan. 7; v. 258; p. 75.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,290,325; Jan. 7; v. 258; p. 75.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing unit. No. 1,290,326; Jan. 7; v. 258; p. 76.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Rocker side bearing. No. 1,290,327; Jan. 7; v. 258; p. 76.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller side bearing. No. 1,290,328; Jan. 7; v. 258; p. 76.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction-bearing. No. 1,290,329; Jan. 7; v. 258; p. 76.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear for railway draft-rigging. No. 1,292,861; Jan. 28; v. 258; p. 758.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,292,862; Jan. 28; v. 258; p. 759.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,292,863; Jan. 28; v. 258; p. 759.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorbing mechanism. No. 1,293,174; Feb. 4; v. 259; p. 46.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car draft-rigging. No. 1,293,618; Feb. 4; v. 259; p. 149.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway-car draft-rigging. No. 1,293,619; Feb. 4; v. 259; p. 149.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,293,888; Feb. 11; v. 259; p. 243.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Electromagnetically-controlled shock-absorbing mechanism. No. 1,293,889; Feb. 11; v. 259; p. 243.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Stop-casting. No. 1,293,890; Feb. 11; v. 259; p. 244.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Combined friction-shell and spring-casing. No. 1,293,891; Feb. 11; v. 259; p. 244.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,295,054; Feb. 18; v. 259; p. 550.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,298,778; Apr. 1; v. 261; p. 38.



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- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,300,457; Apr. 15; v. 261; p. 466.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Brake for railway-cars. No. 1,300,458; Apr. 15; v. 261; p. 466.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging. No. 1,300,459; Apr. 15; v. 261; p. 466.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging. No. 1,300,460; Apr. 15; v. 261; p. 467.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging. No. 1,300,461; Apr. 15; v. 261; p. 467.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. High-capacity friction-gear; No. 1,300,462; Apr. 15; v. 261; p. 467.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-plate draft-gear with antifriction wedging members. No. 1,300,463; Apr. 15; v. 261; p. 467.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,300,464; Apr. 15; v. 261; p. 467.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,300,465; Apr. 15; v. 261; p. 468.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Brake-operating mechanism. No. 1,300,466; Apr. 15; v. 261; p. 468.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for cars. No. 1,300,467; Apr. 15; v. 261; p. 468.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,300,468; Apr. 15; v. 261; p. 468.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-gear for railway-cars. No. 1,300,469; Apr. 15; v. 261; p. 469.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Spring-gear. No. 1,300,470; Apr. 15; v. 261; p. 469.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for flat-cars. No. 1,300,471; Apr. 15; v. 261; p. 469.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Combined compensating link and shock-absorber. No. 1,300,472; Apr. 15; v. 261; p. 469.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Winding mechanism. No. 1,300,473; Apr. 15; v. 261; p. 469.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,300,474; Apr. 15; v. 261; p. 470.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Refrigerator-door mechanism. No. 1,300,475; Apr. 15; v. 261; p. 470.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,300,476; Apr. 15; v. 261; p. 470.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Winding mechanism. No. 1,300,477; Apr. 15; v. 261; p. 471.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,300,478; Apr. 15; v. 261; p. 471.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,300,479; Apr. 15; v. 261; p. 471.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,302,071; Apr. 29; v. 261; p. 858.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-gear for passenger equipment. No. 1,302,072; Apr. 29; v. 261; p. 858.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,302,073; Apr. 29; v. 261; p. 859.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,302,074; Apr. 29; v. 261; p. 859.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,302,075; Apr. 29; v. 261; p. 859.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,302,076; Apr. 29; v. 261; p. 859.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,302,077; Apr. 29; v. 261; p. 859.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear. No. 1,302,078; Apr. 29; v. 261; p. 859.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorber. No. 1,302,079; Apr. 29; v. 261; p. 860.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,302,080; Apr. 29; v. 261; p. 860.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction draft-rigging. No. 1,303,374; May 13; v. 262; p. 197.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,303,375; May 13; v. 262; p. 197.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction draft-rigging. No. 1,303,376; May 13; v. 262; p. 197.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. High-capacity friction shock-absorbing mechanism. No. 1,303,377; May 13; v. 262; p. 197.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Buffing mechanism. No. 1,303,378; May 13; v. 262; p. 197.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,303,379; May 13; v. 262; p. 198.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorbing mechanism. No. 1,303,380; May 13; v. 262; p. 198.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,303,381; May 13; v. 262; p. 198.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Mechanism for recording actions of draft-gears. No. 1,303,948; May 20; v. 262; p. 340.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorber. No. 1,303,949; May 20; v. 262; p. 340.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorber for vehicles. No. 1,303,950; May 20; v. 262; p. 340.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Means for automatically aligning car-trucks. No. 1,304,085; May 20; v. 262; p. 364.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Combined car center-plate and truck-aligning device. No. 1,304,086; May 20; v. 262; p. 365.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Making stop-plates for draft-rigging. No. 1,305,663; June 3; v. 263; p. 82.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,305,664; June 3; v. 263; p. 82.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. High-capacity friction shock-absorbing mechanism. No. 1,305,665; June 3; v. 263; p. 83.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging. No. 1,307,307; June 17; v. 263; p. 451.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Car construction. No. 1,307,308; June 17; v. 263; p. 451.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear. No. 1,307,309; June 17; v. 263; p. 451.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,307,310; June 17; v. 263; p. 451.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorber for vehicles. No. 1,307,311; June 17; v. 263; p. 451.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,307,312; June 17; v. 263; p. 451.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,307,313; June 17; v. 263; p. 452.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,307,314; June 17; v. 263; p. 452.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,307,315; June 17; v. 263; p. 452.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,308,099; July 1; v. 264; p. 17.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction-bearing. No. 1,308,100; July 1; v. 264; p. 17.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Rocker side bearing. No. 1,308,640; July 1; v. 264; p. 116.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Antifriction-bearing. No. 1,314,014; Aug. 26; v. 265; p. 493.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Universal joint for shafting. No. 1,314,015; Aug. 26; v. 265; p. 493.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,323,903; Dec. 2; v. 269; p. 128.
- O'Connor, Maurice, Bankston, Iowa. Automatic sheet-separating device. No. 1,325,410; Dec. 16; v. 269; p. 518.
- O'Connor, R., et al. (See Brown, Marvin H., assignor.)
- O'Connor, Rosalie C., Highlandtown, Md. Safety-harness for children. No. 1,310,958; July 22; v. 264; p. 622.



- O'Connor, Thomas F., Chicago, Ill. Demountable wheel. No. 1,310,502; July 22; v. 264; p. 555.
- O'Connor, Thomas J., Dallas, and W. W. Culbertson, Boyce, Tex. Railway-crossing. No. 1,297,721; Mar. 18; v. 260; p. 487.
- O'Lea, John F. (See Quass, Charles E., assignor.)
- O'Donnell, Edward G. (See Kermack and O'Donnell.)
- O'Donnell, John M., New York, N. Y. Top-locking means for receptacles. No. 1,299,766; Apr. 8; v. 261; p. 291.
- O'Donnell, John P., Providence, R. I. Galvanizing apparatus. No. 1,301,590; Apr. 22; v. 261; p. 734.
- O'Donnell, John W., Salem, Mass., assignor, by mesne assignments, to The Carleton Ruhe Company. Leather-working machine. No. 1,303,840; May 13; v. 262; p. 282.
- O'Donnell, Joseph E. (See Anthony and O'Donnell.)
- O'Donnell, Mary M., New York, N. Y. Cooking utensil. No. 1,310,208; July 15; v. 264; p. 471.
- O'Dowd, Henry W., Jersey City, N. J., assignor to William M. Crane Company. Heating apparatus. No. 1,296,209; Mar. 4; v. 260; p. 90.
- O'Dowd, Henry W., Jersey City, N. J., assignor to W. M. Crane Company. Heating apparatus. No. 1,316,861; Sept. 23; v. 266; p. 512.
- O'Dowd, Thomas, Jr., Warren, Ohio. Fire-extinguisher. No. 1,292,507; Jan. 28; v. 258; p. 673.
- O'Gorman, William J., New York, N. Y. Spark-plug. No. 1,301,870; Apr. 29; v. 261; p. 820.
- O'Halloran, William, Stoughton, Mass. Tool for forming cervical fillings. No. 1,310,014; July 15; v. 264; p. 436.
- O'Hanlon, James R., et al. (See Kitchen, John G. A., assignor.)
- O'Hara, Eliot, Waltham, Mass. Luminous switch-indicator. No. 1,296,311; Mar. 4; v. 260; p. 112.
- O'Hara, Joseph G. R., assignor to Educational Motion Picture Machine and Film Company, St. Louis, Mo. Portable motion-picture apparatus. No. 1,305,154; May 27; v. 262; p. 605.
- O'Hara, Joseph G. R., assignor to Educational Motion Picture Machine and Film Company, St. Louis, Mo. Film-guide. No. 1,308,443; July 1; v. 264; p. 79.
- O'Hara, Joseph G. R., assignor to Educational Motion Picture Machine and Film Company, St. Louis, Mo. Motion-picture-projecting machine. No. 1,308,444; July 1; v. 264; p. 79.
- O'Hara, Joseph G. R., assignor to Educational Motion Picture Machine and Film Company, St. Louis, Mo. Adjustable lamp for motion-picture-projecting machines. No. 1,310,959; July 22; v. 264; p. 640.
- O'Hara, Peter, Ohara township, Allegheny county, Pa. Golf-club. No. 1,299,014; Apr. 1; v. 261; p. 91.
- O'Haver, Edward E., Carlisle, Ind. Internal-combustion engine. No. 1,305,155; May 27; v. 262; p. 605.
- O'Keefe, James M., Brooklyn, assignor to O. K. Dental Articulator Corporation, New York, N. Y. Dental articulator. No. 1,324,319; Dec. 9; v. 269; p. 251.
- O'Leary, Edward F. (See Thompson and O'Leary.)
- O'Leary, Edward F., and A. E. Blossom, Pueblo, Colo. Automobile-locking device. No. 1,291,617; Jan. 14; v. 258; p. 405.
- O'Leary, Marguerite G. (See McDonald, Leslie R., assignor.)
- O'Loughlin, Charles E. (See O'Loughlin, William B., L. G., and C. E.)
- O'Loughlin, Leo G. (See O'Loughlin, William B., L. G., and C. E.)
- O'Loughlin, William B., L. G., and C. E., Providence, R. I. Basket. No. 1,311,086; July 22; v. 264; p. 664.
- O'Malley, John F., Meriden, Conn. Machine-gun. No. 1,307,316; June 17; v. 263; p. 452.
- O'Malley, Michael T., New Hartford, N. Y., assignor to Whitin Machine Works, Whitinsville, Mass. Guard for sliver-lap and ribbon-lap machines. No. 1,306,711; June 17; v. 263; p. 342.
- O'Meara, Thomas J. (See Shank, Thomas M., assignor.)
- O'Neil, Clarence M., Eagle Creek, Oreg. Lunch-pail. No. 1,309,541; July 8; v. 264; p. 312.
- O'Neill, Arthur S., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing propellant explosives. No. 1,311,909; Aug. 5; v. 265; p. 11.
- O'Neill, Arthur S., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Propellant explosive. No. 1,311,910; Aug. 5; v. 265; p. 11.
- O'Neil, John F., assignor to Fulton Iron Works Company, St. Louis, Mo. Cane-mill. No. 1,291,095; Jan. 14; v. 258; p. 285.
- O'Neill, Rodolph S., London, England. Stop-valve. No. 1,302,990; May 6; v. 262; p. 97.
- O'Neill, Thomas E., Clinton, N. Y. Clamping device. No. 1,293,524; Feb. 4; v. 259; p. 128.
- O'Neill, William. (See McPherson, Alexander, assignor.)
- O'Neill, William B. (See Lindsey, James E., assignor.)
- O'Neill, Charles A., Revere, Mass., assignor to Demountable Spring Tire Company, New York, N. Y. Resilient wheel. No. 1,321,545; Nov. 11; v. 268; p. 288.
- O'Neill, Clarence B., Clymer, Pa. Device for cleaning wind-shields. No. 1,325,903; Dec. 23; v. 269; p. 627.
- O'Neill, Eugene, and T. E. Comly, Lewiston, Idaho. Tire-covering. No. 1,295,579; Feb. 25; v. 259; p. 694.
- O'Neill, Frank, Toledo, Ohio. Glass-forming machine. No. 1,315,983; Sept. 16; v. 266; p. 300.
- O'Neill, Henry G., New York, assignor to C. Hubert, Hewlett, N. Y. Controlling means for engine-starters. No. 1,314,894; Sept. 2; v. 266; p. 77.
- O'Neill, Henry G., New York, assignor to C. Hubert, Hewlett, N. Y. Electrical engine-starting apparatus. No. 1,315,790; Sept. 9; v. 266; p. 249.
- O'Neill, James D., Montreal, Quebec, Canada. Track-scale. No. 1,314,423; Aug. 26; v. 265; p. 571.
- O'Neill, John. (See Dodd, Henry S., assignor.)
- O'Neill, John R., Ridgewood, N. J. Label-applying machine. No. 1,300,639; Apr. 15; v. 260; p. 504.
- O'Neill, Merton G., Roxbury, and F. Farrell, Boston, Mass. Non-refillable bottle. No. 1,320,904; Nov. 4; v. 268; p. 103.
- O'Neill, Thomas J., Tampa, Fla. Heel. No. 1,316,505; Sept. 16; v. 266; p. 397.
- O'Neill, William F. (See Rogers and O'Neill.)
- O'Neill, William F., Wilkinsburg, Pa. Cabinet-type switch-panel. No. 1,313,555; Aug. 19; v. 265; p. 372.
- O'Quinn, Arthur M., Fort Valley, Ga. Sizer and grader. No. 1,293,175; Feb. 4; v. 259; p. 46.
- O'Quinn, Arthur M., Fort Valley, Ga. Sizer and grader. No. 1,293,176; Feb. 4; v. 259; p. 46.
- O'Quinn, Arthur M., Fort Valley, Ga. Fruit sizer and grader. No. 1,293,177; Feb. 4; v. 259; p. 46.
- O'Rear, James B., Frankfort, Ky. Repeating device for talking-machines. No. 1,318,104; Oct. 7; v. 267; p. 84.
- O'Reilly, Charles L. (See Sherlock, John F., assignor.)
- O'Reilly, William E., London, England. Safety-razor. No. 1,294,149; Feb. 11; v. 259; p. 305.
- O'Riley, Leo J., Grand Rapids, Mich. Phonograph. No. 1,303,951; May 20; v. 262; p. 340.
- O'Rourke, John F., New York, N. Y. Tunnel-shield. No. 1,296,312; Mar. 4; v. 260; p. 113.
- O'Rourke, Violet, Exeter, N. H. Trap-nest. No. 1,318,105; Oct. 7; v. 267; p. 84.
- O'Shields, Henry T., Atlanta, Ga. Non-freezing hydrant. No. 1,297,001; Mar. 11; v. 260; p. 304.
- O'Sullivan, Sylvester M., San Francisco, Calif. Multiple-tool holder. No. 1,316,920; Sept. 23; v. 266; p. 523.
- Oakes, Frederick T., Brooklyn, N. Y. Heating apparatus. No. 1,291,091; Jan. 14; v. 258; p. 284.
- Oakes, Lars E., Elk Point, S. D. Harrow. No. 1,313,008; Aug. 12; v. 265; p. 251.
- Oakes, Lucian R., assignor to Oakes Manufacturing Company, Tipton, Ind. Automatic watering-fountain. No. 1,290,775; Jan. 7; v. 258; p. 183.
- Oakes Manufacturing Company. (See Oakes, Lucian R., assignor.)
- Oakley, Clifford H. (See Wilking, Alphons P. M., assignor.)
- Oakley, Clifford H., Trenton, N. J. Making rubber-impregnated fabric for brake-lining, &c. No. 1,292,027; Jan. 21; v. 258; p. 537.
- Oakley, John, Springfield, Mass. Broach. No. 1,293,887; Feb. 11; v. 259; p. 243.
- Oakley, John, Springfield, Mass. Broaching implement. No. 1,318,102; Oct. 7; v. 267; p. 84.
- Oakley, Orley R., Decatur, Ill. Calking and glazing device. No. 1,296,107; Mar. 4; v. 260; p. 67.
- Oakley, Richard B., Newport, R. I. Curtain-pin. No. 1,326,774; Dec. 30; v. 269; p. 827.
- Oakman, Erwin H., Atlanta, Ga. Inkwell. No. 1,320,903; Nov. 4; v. 268; p. 103.
- Oakman, Erwin H., Atlanta, Ga. Inkwell. No. 1,325,408; Dec. 16; v. 269; p. 517.
- Oakville Company. (See Boden, George, assignor.)
- Oatsdean, Charles A. (See Oatsdean, John A., assignor.)
- Oatsdean, John A., Cleveland, assignor of one-third to C. A. Oatsdean, McDonald, Ohio. Traction device for motor-vehicles. No. 1,319,018; Oct. 14; v. 267; p. 321.
- Obear-Nester Glass Company. (See Lynch, James W., assignor.)
- Obee, Harvey, et al. (See Sjogren, George, assignor.)
- Obenauer, Harlan W., Detroit, Mich. Check-holder for tool-rooms. No. 1,305,739; June 3; v. 263; p. 96.
- Oberbeck, Henry A., Chicago, Ill. Hears attachment for automobiles. No. 1,290,776; Jan. 7; v. 258; p. 183.
- Oberfell, George G., and H. T. Boyd, Homer, Ohio, assignors to The Ohio Fuel Supply Company, Pittsburgh, Pa. Manufacture of amyl acetate and its homologues from chlor-hydrocarbons of the paraffin series. No. 1,302,583; May 6; v. 262; p. 19.
- Oberg, Carlos A. (See Nordstrom and Oberg.)
- Oberg, Gustaf A. (See Osterberg and Oberg.)
- Oberkirch, Frank. (See Ashley, Robert W., assignor.)
- Oberley, Charles G., Munising, Mich. Apparatus for watermarking paper. No. 1,325,529; Dec. 23; v. 269; p. 558.
- Oberlin, John F., Cleveland Heights, assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,316,055; Sept. 16; v. 266; p. 312.
- Obermiller, Joseph, Syracuse, N. Y. Winding-reel. No. 1,292,361; Jan. 21; v. 258; p. 618.
- Obermiller, Max W., assignor to W. Stager, New York, N. Y. Fishing-tackle. No. 1,292,860; Jan. 28; v. 258; p. 758.
- Oberreich, Louie H., Indianapolis, Ind. Primer. No. 1,301,869; Apr. 29; v. 261; p. 820.
- Oberst, Richard E., Milwaukee, Wis. Inclinerating-chimney. No. 1,321,239; Nov. 11; v. 268; p. 230.



## Alphabetical list of patentees—Continued.

- Obertop, Earl H., Tonopah, Nev. Piston-ring for internal-combustion engines. No. 1,293,617; Feb. 4; v. 259; p. 149.
- Obolewicz, Stanislaw, assignor to J. Nigbor, Detroit, Mich. Flagstaff-holder. No. 1,317,590; Sept. 30; v. 266; p. 687.
- Obolewicz, Stanislaw, assignor to J. Nigbor, Detroit, Mich. Combined mop and brush handle. No. 1,325,165; Dec. 16; v. 269; p. 472.
- Obolewicz, Stanislaw, assignor to S. Smiglelski, Detroit, Mich. Figure toy. No. 1,323,902; Dec. 2; v. 269; p. 128.
- Oborski, Marya Z., Chicago, Ill. Portable fence. No. 1,309,956; July 15; v. 264; p. 426.
- Oborski, Marya Z., Chicago, Ill. Coat, hat, and umbrella hanger. No. 1,322,936; Nov. 25; v. 268; p. 651.
- Obst, Joseph A., Pawtucket, R. I. Pneumatic action for musical instruments. No. 1,292,362; Jan. 21; v. 258; p. 618.
- Ochipinti, John. (See Bianchi and Ochipinti.)
- Ocean Leather Co., The. (See Brackmann, William, assignor.)
- Ochi, Kihege, Stockton, Calif. Producing useful fiber. No. 1,315,635; Sept. 9; v. 266; p. 221.
- Ochoa, Victor L., assignor of one-half to L. Clark, El Paso, Tex. Windmill. No. 1,319,174; Oct. 21; v. 267; p. 376.
- Ochs, Henry L., Kansas City, Mo. Vehicle-tire. No. 1,306,769; June 17; v. 263; p. 352.
- Ochs, Martha, Columbus, Ohio. Educational appliance. No. 1,322,261; Nov. 18; v. 268; p. 473.
- Ochs, William A. C. (See Jacquot, Gaston L., assignor.)
- Ockrassa, Gustav F., Pine Lawn, Mo. Shoe. No. 1,291,092; Jan. 14; v. 258; p. 284.
- Ocotillo Products Company. (See Snyder, Edgar W., assignor.)
- Ode, Edward, Orland, Calif. Finger-moistening machine. No. 1,323,645; Dec. 2; v. 269; p. 79.
- Odell, Arthur J., Batavia, N. Y. Tool for cutting meats. No. 1,316,503; Sept. 16; v. 266; p. 397.
- Odell, Edwin, Central City, Nebr. Forceps. No. 1,322,606; Nov. 25; v. 268; p. 590.
- Oden, John M., Brooklyn, N. Y. Hose-making machine. No. 1,322,464; Nov. 18; v. 268; p. 511.
- Odenkirk, Harry C., Cleveland, Ohio. Sanitary self-sealing trap. No. 1,323,718; Dec. 2; v. 269; p. 93.
- Oderman, Erik H., Waynesboro, Pa. Vehicle-spring. No. 1,307,596; June 24; v. 263; p. 536.
- Oderman, Erick H., assignor to Frick Company, Waynesboro, Pa. Ammonia-condenser for ice-machines. No. 1,303,107; May 6; v. 262; p. 120.
- Odermatt, Clarence W. (See Baum and Odermatt.)
- Odierno, Giovanni, Milan, Italy. Mud-protector for vehicles. No. 1,325,166; Dec. 16; v. 269; p. 473.
- Odlin, Henry W., Edgartown, Mass., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,321,073; Nov. 4; v. 268; p. 135.
- Oechslein, Karl J., Paris, France. Aliphatic acids containing an arsenoarylamine group. No. 1,299,214; Apr. 1; v. 261; p. 136.
- Oechslein, Karl J., Paris, France. Aliphatic acids containing an arsenoarylamine group. No. 1,299,215; Apr. 1; v. 261; p. 136.
- Oeffinger, John L. (See Pearson and Oeffinger.)
- Oehler, Richard, St. Louis, Mo. Meat-grinder. No. 1,296,108; Mar. 4; v. 260; p. 67.
- Oehlke, Bertha M. (See Oehlke, Frederick H., assignor.)
- Oehlke, Frederick H., deceased; L. A. Pease, executrix, Ridgeville, assignor to B. M. Oehlke, West Dover, Ohio. Furnace. No. 1,307,371; June 24; v. 263; p. 496.
- Oehmen, Ernest L., Portland, Oreg. Refuse-furnace. No. 1,303,108; May 6; v. 262; p. 120.
- Oehring, August J., Chicago, Ill. Attachment for cameras. No. 1,304,361; May 20; v. 262; p. 417.
- Oehrl, Franklin W., Philadelphia, Pa. Machine for making ornamental rope or cord. No. 1,310,401; July 15; v. 264; p. 506.
- Oehrl, Franklin W., Philadelphia, Pa. Machine for making ornamental rope or cord. No. 1,310,402; July 15; v. 264; p. 506.
- Oelrich, Harry W., Ellsworth, Wis. Wire-stretcher. No. 1,299,998; Apr. 8; v. 261; p. 340.
- Oesch, Alfred. (See Marti and Oesch.)
- Oesterhaus, John H., Kansas City, Mo. Medicine-injector. No. 1,325,699; Dec. 23; v. 269; p. 589.
- Oesterwitz, Otto H., Syracuse, N. Y. Turbinotome. No. 1,324,976; Dec. 16; v. 269; p. 437.
- Oetting, Otto E., Pittsburgh, Pa. Hat. No. 1,321,544; Nov. 11; v. 268; p. 287.
- Oettinger, Edward E., Chicago, Ill. Mail-box. No. 1,324,688; Dec. 9; v. 269; p. 322.
- Ofeldt, Ernest G., Nyack, N. Y. Regulator for gas and air mixers. No. 1,316,504; Sept. 16; v. 266; p. 397.
- Ofeldt, George, Philadelphia, Pa. Shaft-coupling. No. 1,313,109; Aug. 12; v. 265; p. 271.
- Officer, Charles B., Claremont, N. H., assignor to Sullivan Machinery Company. Mining-machine. No. 1,313,869; Aug. 19; v. 265; p. 431.
- Officer, Thomas. (See Ball and Officer.)
- Officer, Thomas, and H. H. Mercer, Claremont, N. H., assignors to Sullivan Machinery Company. Stoneworking-machine. No. 1,310,248; July 15; v. 264; p. 478.
- Ofutt, John W., and J. J. Dunn, Ellwood City, and J. H. Nicholson, Pittsburgh, Pa. Making cartridge-cases. No. 1,296,842; Mar. 11; v. 260; p. 267.
- Ofman, Jacob, Rotterdam, Netherlands. Cooking-stove. No. 1,306,435; June 10; v. 263; p. 259.
- Oftedahl, John, Hanley Falls, Minn. Bottle-filler. No. 1,308,101; July 1; v. 264; p. 17.
- Oftedahl, John, Hanley Falls, Minn. Seed-corn holder. No. 1,308,253; July 1; v. 264; p. 45.
- Ogawa, Yaitaro, Kusunoki Machi, Kobe, Japan. Forced-draft device for furnaces. No. 1,322,262; Nov. 18; v. 268; p. 473.
- Ogden, Alfred E. (See Rundell, Ogden, and Ellett.)
- Ogden, Clarence E., Cincinnati, Ohio. Electric controller. No. 1,316,320; Sept. 16; v. 266; p. 362.
- Ogden, Clarence E., Cincinnati, Ohio. Constructing resistance-grids. No. 1,316,321; Sept. 16; v. 266; p. 362.
- Ogden, Floyd H., Roxbury, Mass. Snap-fastener. No. 1,305,233; May 27; v. 262; p. 621.
- Ogden, J. E. (See Kennedy, Joseph, assignor.)
- Ogden, J. Edward. (See Tomkinson, Charles C., assignor.)
- Ogden, John E., Cornwall, N. Y. Sheet-metal bolt-anchor. No. 1,300,000; May 27; v. 262; p. 576.
- Ogden, John E., Cornwall, N. Y. Bolt-anchor. No. 1,305,001; May 27; v. 262; p. 576.
- Ogden, John E., Cornwall, N. Y., and C. C. Tomkinson, Plainfield, N. J.; said Tomkinson assignor to said Ogden. Two-section strut-door. No. 1,326,611; Dec. 30; v. 269; p. 796.
- Ogden, William H., Philadelphia, Pa. Sealing-wax applicator. No. 1,312,347; Aug. 5; v. 265; p. 91.
- Ogilvy, Robert S., Chicago, Ill. Fountain-pen. No. 1,317,817; Oct. 7; v. 267; p. 30.
- Ogle, Thomas, Bramley, near Leeds, England. Machine for drying hanks or warps of yarn, woven or felted fabrics, leather and fibrous materials. No. 1,312,348; Aug. 5; v. 265; p. 91.
- Ogles, James H., Westover, Ala. Trap for animals and fowls. No. 1,315,391; Sept. 9; v. 266; p. 178.
- Oglesby, Charles G., Memphis, Tenn., assignor to Bucyrus Company, South Milwaukee, Wis. Tower-excavator. No. 1,292,363; Jan. 21; v. 258; p. 619.
- Oglesby, Richard A., assignor to Quick Action Ignition Company, South Bend, Ind. Magneto for internal-combustion engines. No. 1,300,637; Apr. 15; v. 261; p. 504.
- Ohara, Kenji, Awa Gun, Chiba Ken, Japan. Device for packing eggs. No. 1,301,161; Apr. 22; v. 261; p. 652.
- Ohashi, Hydesaburo, assignor to Hydesaburo Ohashi & Co., Inc., New York, N. Y. Inking attachment for typewriters. No. 1,300,999; Apr. 15; v. 261; p. 581.
- Ohio Blower Company, The. (See Coakley, William E., assignor.)
- Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
- Ohio Brass Company, The. (See Averill, Rex G., assignor.)
- Ohio Brass Company, The. (See Bocard, William P., assignor.)
- Ohio Brass Company, The. (See Bolus, Glenn H., assignor.)
- Ohio Brass Company, The. (See Bolus and Darrah, assignors.)
- Ohio Brass Company, The. (See McIntosh, James A., assignor.)
- Ohio Brass Company, The. (See Mead, George A., assignor.)
- Ohio Fuel Supply Company, The. (See Boyd, Hugh T., assignor.)
- Ohio Fuel Supply Company, The. (See Oberfell and Boyd, assignors.)
- Ohio Overall Company. (See Williams, Albert E., assignor.)
- Ohio Rake Company, The. (See Imus, James H., assignor.)
- Ohlson, Bror I. E. M., Helsingborg, and N. G. O. Lundberg, Malmö, Sweden. Ticket-delivering and change-receiving apparatus. No. 1,293,501; Feb. 4; v. 259; p. 122.
- Ohlson, Olof, Newton, assignor to Waltham Watch Company, Waltham, Mass. Coupling-release for mechanical time-fuses. No. 1,309,333; July 8; v. 264; p. 273.
- Ohlson, Olof, Newton, assignor to Waltham Watch Company, Waltham, Mass. Setting device for mechanical time-fuses. No. 1,311,837; July 29; v. 264; p. 836.
- Ohlson, Olof, Newton, assignor to Waltham Watch Company, Waltham, Mass. Locking device for time-fuses. No. 1,311,838; July 29; v. 264; p. 836.
- Ohlson, Olof, West Newton, assignor to Waltham Watch Company, Waltham, Mass. Time-fuse for artillery-projectiles. No. 1,312,803; Aug. 12; v. 265; p. 211.
- Ohlson, Olof, Newton, assignor to Waltham Watch Company, Waltham, Mass. Mechanical time-fuse for projectiles. No. 1,319,304; Oct. 21; v. 267; p. 400.
- Ohlsson, Johan A., assignor to Klosters Aktie Bolag, Stockholm, Sweden. Ball-bearing. No. 1,311,769; July 29; v. 264; p. 824.
- Ohlsson, Olof, Södertelje, Sweden. Constant-pressure internal-combustion engine. No. 1,324,406; Dec. 9; v. 269; p. 268.
- Ohmer Fare Register Company. (See Ohmer, Crouch, and Sibley, assignors.)
- Ohmer, Henry B., W. L. Crouch, and H. J. Sibley, assignors to Ohmer Fare Register Company, Dayton, Ohio. Zone indicating and recording machine. No. 1,316,175; Sept. 16; v. 266; p. 335.



- Ohmer, John F., assignor to Ohmer Fare Register Company, Dayton, Ohio. Zone-recording fare-register. No. 1,316,176; Sept. 16; v. 266; p. 335.
- Ohnell, Ernst J., Brooklyn, N. Y. Measuring instrument. No. 1,312,566; Aug. 12; v. 265; p. 165.
- Ohrt, James, Paxton, Ill. Signal-lamp casing. No. 1,296,109; Mar. 4; v. 260; p. 67.
- Ohta, Shikakichi, Iwata-Gun, Shimoka-Ken, Japan. Apparatus for causing river-boats to run up torrents, rapids, and the like. No. 1,318,907; Oct. 14; v. 267; p. 299.
- Oil Mill Machinery & Manufacturing Co. (See Helm, Clyde D., assignor.)
- Oil Mill Machinery & Manufacturing Co. (See Martin, George W., assignor.)
- Oil Well Heating Company, The. (See Waring, Fred B., assignor.)
- Oil Well Reclamation Company. (See Gregory, Ralph, assignor.)
- Oil Well Supply Company. (See Greve, Edgar E., assignor.)
- Oil Well Supply Company. (See Jackson, John W., assignor.)
- Oil Well Supply Company. (See Mack, Patrick H., assignor.)
- Oiler, Frank E., assignor to J. E. Boeck, New York, N. Y., and S. E. Dettterbach, Cleveland, Ohio. Motion-picture apparatus. No. 1,305,002; May 27; v. 262; p. 576.
- Oiler, Robin S. (See Foster, Walter L., assignor.)
- Oiwa, Takeo, Toyotama Gun, Tokyo Fu, Japan. Apparatus for manufacturing chlorates by an electrolytic process. No. 1,297,395; Mar. 18; v. 260; p. 418.
- Okamoto, Daitake, North Yakima, Wash. Hat and clothes book. No. 1,305,560; June 3; v. 263; p. 63.
- Okay Motor Manufacturing Company. (See Bates, Ralph E., assignor.)
- Okey, Perry, Columbus, Ohio. Saw-cutting machine. No. 1,296,110; Mar. 4; v. 260; p. 67.
- Okihara, Tanezo, Honolulu, Hawaii. Embroidery-frame. No. 1,302,421; Apr. 29; v. 261; p. 925.
- Oklahoma Zinc Products Co. (See Greenstreet, Oliver P., assignor.)
- Okum, Morris B., Chicago, Ill. Bed-rail fastener. No. 1,303,109; May 6; v. 262; p. 120.
- Okun, Morris B., Chicago, Ill. Corner-post fastener for beds. No. 1,310,166; July 15; v. 264; p. 463.
- Olafson, Alvin O., assignor to one-half to G. A. Brockway, Scooby, Mont. Cue tip and ferrule. No. 1,307,922; June 24; v. 263; p. 596.
- Olafson, Gudlaugur, Winnipeg, Manitoba, Canada. Square. No. 1,292,864; Jan. 28; v. 258; p. 759.
- Olán, Johan W. T., Marstrand, Sweden. Mariner's compass. No. 1,307,637; June 24; v. 263; p. 543.
- Olavessen, Johan A., Lillestrommen, assignor to one-half to H. Husebye, Christiania, Norway. Seal for milk-buckets. No. 1,293,892; Feb. 11; v. 259; p. 244.
- Olbon, John A., Paterson, N. J. Automobile-lock. No. 1,318,103; Oct. 7; v. 267; p. 84.
- Old Colony Machine Co. (See Sharples and Crowe, assignors.)
- Older, Roy B., assignor to Allith Prouty Company, Danville, Ill. Bracket. No. 1,307,413; June 24; v. 263; p. 503.
- Oldfield, Albert, assignor to one-half to E. W. Bingle, Chicago, Ill. Bed or seat spring structure. No. 1,322,263; Nov. 18; v. 268; p. 473.
- Oldham Armor Tire Company. (See Oldham, John F., assignor.)
- Oldham, John F., New York, N. Y. Resilient-wheel. No. 1,309,540; July 8; v. 264; p. 311.
- Oldham, John F., New York, N. Y., assignor to Oldham Armor Tire Company. Tire-armor. No. 1,325,856; Dec. 23; v. 269; p. 618.
- Oldroyd, Cyrus S., Cincinnati, Ohio. Mining and quarrying machine. No. 1,321,840; Nov. 18; v. 268; p. 394.
- Olds, Alfred W., Windsor, Conn. Apparatus for operating automobile-signs. No. 1,311,135; July 22; v. 264; p. 672.
- Olds, James B., Maspeth, N. Y. Semi-trailer elevating-horse. No. 1,308,764; July 8; v. 264; p. 167.
- Olds, James B., Maspeth, N. Y. Semitrailer and tractor therefor. No. 1,316,735; Sept. 23; v. 266; p. 490.
- Oleson, Frank L., Chicago, Ill. Automatic stereopticon. No. 1,296,583; Mar. 4; v. 260; p. 172.
- Olevin, Adolph, assignor to Meridian Machine Products Corporation, Detroit, Mich. Micrometer-calipers. No. 1,310,431; July 22; v. 264; p. 543.
- Olinek, Frederick, Edmonton, Alberta, Canada. Automatic gate. No. 1,312,267; Aug. 5; v. 265; p. 77.
- Oliva, Albert J., and A. Scaglione, New York, N. Y. Apparatus for renewing chopping-blocks. No. 1,321,240; Nov. 11; v. 268; p. 230.
- Olivé, Luis A., Barcelona, Spain. Stopper for rendering bottles non-refillable. No. 1,291,093; Jan. 14; v. 258; p. 284.
- Olivé, Luis A., Habana, Cuba. Obfustating device for non-refillable flasks or the like. No. 1,303,382; May 13; v. 262; p. 198.
- Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)
- Oliver Chilled Plow Works. (See Paul, William L., assignor.)
- Oliver Chilled Plow Works. (See Roberts and Heylman, assignors.)
- Oliver, Doctor F., deceased, Oakland, Cal.; L. F. Oliver, executrix. Vehicle-top. No. 1,294,148; Feb. 11; v. 259; p. 305.
- Oliver, Ellis S. (See Bamberger, Henry, assignor.)
- Oliver, Elmer, Daytona, Fla. Split demountable rim. No. 1,293,893; Feb. 11; v. 259; p. 244.
- Oliver, Ernest A., Flushing, N. Y., assignor to Victory Bottle Capping Machine Co., Incorporated. Bottle-capping machine. No. 1,310,960; July 22; v. 264; p. 640.
- Oliver, Fred S., San Francisco, Calif. Carbureter. No. 1,315,191; Sept. 2; v. 266; p. 131.
- Oliver, John R., Lisbon, Ohio. Film-developing device. No. 1,302,700; May 6; v. 262; p. 42.
- Oliver, Lillie F., executrix. (See Oliver, Doctor F.)
- Oliver, Luther B., Mebane, N. C. Soda-fountain. No. 1,299,767; Apr. 8; v. 261; p. 291.
- Oliver, Robert L. (See Sly and Oliver.)
- Oliver, Robert S. (See Laist, Frick, and Oliver.)
- Olard, James C., Tacoma, Wash. Clutch. No. 1,306,230; June 10; v. 263; p. 219.
- Ollenburg, Arthur A., assignor to Gemco Manufacturing Company, Milwaukee, Wis. Bumper-bracket for automobiles. No. 1,300,858; Apr. 15; v. 261; p. 551.
- Olleo, Ralph, assignor to Frederick Osann Company, New York, N. Y. Sanitary beating-machine. (Reissue.) No. 14,594; Feb. 18; v. 259; p. 559.
- Olleo, Ralph, assignor to Frederick Osann Company, New York, N. Y. Beater-stick support. No. 1,307,874; June 24; v. 263; p. 587.
- Olley, Edwin A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Panel-board construction. No. 1,296,999; Mar. 11; v. 260; p. 304.
- Olley, Edwin A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Panel-board construction. No. 1,303,582; May 13; v. 262; p. 234.
- Olley, Edwin A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Panel-board. No. 1,307,019; June 17; v. 263; p. 399.
- Olley, Edwin A., assignor to Crouse-Hinds Company, Syracuse, N. Y. Panel-board construction. No. 1,308,607; July 1; v. 264; p. 110.
- Ollier, Joseph H., Manchester, England. Animal-trap. No. 1,293,894; Feb. 11; v. 259; p. 244.
- Olmsted, Harold F., Grand Rapids, Mich. Periscope-casing. No. 1,311,087; July 22; v. 264; p. 664.
- Olmsted, Osmond W., Windsor, assignor to The Auto Equipment Co., Hartford, Conn. Automobile-indicator. No. 1,294,527; Feb. 18; v. 259; p. 428.
- Olsen, Carl, and P. Pimlott, Brooklyn, N. Y. Gas-burner. No. 1,325,370; Dec. 16; v. 269; p. 510.
- Olsen, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Gear-testing machine. No. 1,304,592; May 27; v. 262; p. 500.
- Olsen, Edward A. (See Thornton and Olsen.)
- Olsen, Edwin O., assignor to one-fourth to F. Marggraff, one-fourth to A. Marggraff, and one-fourth to H. Marggraff, Milwaukee, Wis. Compressor for refrigerating apparatus. No. 1,307,061; June 17; v. 263; p. 406.
- Olsen, George O., Boston, Mass., assignor to United States Vaporizer Co. Fuel-heater. No. 1,305,003; May 27; v. 262; p. 577.
- Olsen, James C. (See Fisher and Olsen.)
- Olsen, John. (See Glaser and Olsen.)
- Olsen, John A., Caribou, Minn. Pliers. No. 1,315,235; Sept. 9; v. 266; p. 149.
- Olsen, John B., Chicago, Ill. Hat-forming die. No. 1,321,141; Nov. 11; v. 268; p. 211.
- Olsen, Lawrence, Indianapolis, Ind. Forming bearings. No. 1,302,584; May 6; v. 262; p. 19.
- Olsen, Lawrence, Indianapolis, Ind. Centrifugal die-casting machine. No. 1,302,838; May 6; v. 262; p. 68.
- Olsen, Martin, Manchester, Mass. Non-sinkable ship. No. 1,321,325; Nov. 11; v. 268; p. 247.
- Olsen, Matilda D., Pony, Mont. Pan. No. 1,294,528; Feb. 18; v. 259; p. 429.
- Olsen, Olaf M., Brooklyn, N. Y. Sanitary cooking vessel. No. 1,291,020; Jan. 14; v. 258; p. 406.
- Olsen, Oluf W., Woodhaven, N. Y. Clutch mechanism. No. 1,299,502; Apr. 8; v. 261; p. 229.
- Olsen, Oscar, Oakland, Calif. Burned shale and preparing the same and concrete made therefrom. No. 1,314,752; Sept. 2; v. 266; p. 52.
- Olsen, Oscar T., Rolfe, Iowa. Wagon-dumping mechanism. No. 1,323,904; Dec. 2; v. 269; p. 128.
- Olsen, Peter, Sydney, Nova Scotia, Canada. Oar and oar-lock. No. 1,319,356; Oct. 21; v. 267; p. 410.
- Olsen, Simon D. (See Bruner and Olsen.)
- Olson, Alfred A., Riverside, Ill. Locomotive driving mechanism. No. 1,307,142; June 17; v. 263; p. 421.
- Olson, Andrew P., Chicago, Ill. Fastener for clutch and brake linings. No. 1,296,843; Mar. 11; v. 260; p. 267.
- Olson, Arthur A., Chicago, Ill., assignor to J. Roussou, Los Angeles, Cal. Towel-cabinet. No. 1,295,578; Feb. 25; v. 259; p. 694.
- Olson, Ben J., Whalan, Minn. Float-valve. No. 1,324,844; Dec. 16; v. 269; p. 413.
- Olson, Carl, Racine, Wis. Rail-joint. No. 1,322,724; Nov. 25; v. 268; p. 611.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Grinding-machine. No. 1,297,396; Mar. 18; v. 260; p. 418.



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- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Tool-dressing device. No. 1,323,486; Dec. 2; v. 269; p. 50.
- Olson, Charles J., Muskegon, Mich. Governor-valve. No. 1,293,895; Feb. 11; v. 259; p. 245.
- Olson, Charles K., Chicago, Ill. Curtain-stretcher. No. 1,320,409; Nov. 4; v. 268; p. 10.
- Olson, Clair D., Farmington, N. Mex. Fish-stop. No. 1,302,839; May 6; v. 262; p. 68.
- Olson, Edwin J., Wheaton, Minn. Folding washstand. No. 1,325,107; Dec. 16; v. 269; p. 462.
- Olson, Gerhardt G., deceased; N. M. Olson, administratrix, Cushing, Okla. Outlet-valve and cap for tank-cars. No. 1,290,302; Jan. 7; v. 258; p. 70.
- Olson, Gustaf, assignor of one-half to W. M. McEwen, Chicago, Ill. Combined fluid pump and motor. No. 1,291,618; Jan. 14; v. 258; p. 405.
- Olson, Gustaf, assignor of one-half to W. M. McEwen, Chicago, Ill. Electric fan. No. 1,295,055; Feb. 18; v. 259; p. 550.
- Olson, Gustaf, assignor of one-half to W. M. McEwen, Chicago, Ill. Electric-fan control. No. 1,300,638; Apr. 15; v. 261; p. 504.
- Olson, Gustaf, assignor of one-half to W. M. McEwen, Chicago, Ill. Combined fluid-pump and motor. No. 1,316,855; Sept. 23; v. 266; p. 511.
- Olson, Gustaf W., and C. F. Kroon, Minneapolis, Minn. Humidifier attachment for radiators. No. 1,293,523; Feb. 4; v. 259; p. 128.
- Olson, Halvor, Belview, Minn. Plane attachment for hand-saws. No. 1,324,922; Dec. 16; v. 269; p. 427.
- Olson, Hans, Hibbing, Minn. Game. No. 1,296,111; Mar. 4; v. 260; p. 67.
- Olson, Hans A., Revere, Mass. Fishing appliance. No. 1,307,513; June 24; v. 263; p. 522.
- Olson, Henry E., Chicago, Ill. Oil-burner. No. 1,301,304; Apr. 22; v. 261; p. 681.
- Olson, Henry J. (See Fahlow, Gustav C., assignor.)
- Olson, John, West Chicago, Ill. Harvester. No. 1,322,334; Nov. 18; v. 268; p. 486.
- Olson, John J., Belview, Minn. Stove attachment. No. 1,311,705; July 29; v. 264; p. 812.
- Olson, John J., Belview, Minn. Derrick. No. 1,314,357; Aug. 26; v. 265; p. 558.
- Olson, Karl A., Plainfield, N. J. Diving-bell. No. 1,302,081; Apr. 29; v. 261; p. 860.
- Olson, Karl A., Plainfield, N. J. Diving-bell. No. 1,302,422; Apr. 29; v. 261; p. 925.
- Olson, Karl A., Plainfield, N. J. Apparatus for raising sunken vessels and the like. No. 1,308,528; July 1; v. 264; p. 95.
- Olson, Magnus, Golden, British Columbia, Canada. Cutter-head. No. 1,308,297; July 1; v. 264; p. 53.
- Olson, Nanna M., administratrix. (See Olson, Gerhardt G.)
- Olson, Nels L., Detroit, Mich. Tractor attachment for automobiles. No. 1,291,619; Jan. 14; v. 258; p. 406.
- Olson, Nils G., Chicago, Ill. Electrically-operated abrading-machine. No. 1,295,359; Feb. 25; v. 259; p. 643.
- Olson, Samuel, Chicago, Ill. Automatic gravity-loader for conveyers. No. 1,325,167; Dec. 16; v. 269; p. 473.
- Olson, Samuel, Chicago, Ill. Tray-carrier. No. 1,325,857; Dec. 23; v. 269; p. 618.
- Olsson, Ellis, East Angus, Quebec, Canada. Recovery process in the manufacture of sulfate pulp. No. 1,322,043; Nov. 18; v. 268; p. 432.
- Olsson, John W., Portsmouth, Va. Toy vehicle. No. 1,299,015; Apr. 1; v. 261; p. 92.
- Olsson, Zacharias, Brooklyn, N. Y. Apparatus for ascertaining the fusing temperature of materials. No. 1,314,422; Aug. 26; v. 265; p. 571.
- Olszak, Marcin. (See Federkiewicz and Olszak.)
- Olt, Philips S., Pekin, Ill. Artificial bait. No. 1,292,865; Jan. 28; v. 258; p. 759.
- Olver, Alfred W. (See Hutchins and Olver.)
- Olvis, James E., assignor to Williams, Brown & Earle, Inc., Philadelphia, Pa. Automatically-operating stereopticon. No. 1,321,241; Nov. 11; v. 268; p. 230.
- Olympia Games Company. (See Raster, Walther, assignor.)
- Omo Manufacturing Company, The. (See Burr, Harry M., assignor.)
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-carrier for sewing-machines. No. 1,291,094; Jan. 14; v. 258; p. 285.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Picot-edging machine. No. 1,308,608; July 1; v. 264; p. 110.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,312,866; Aug. 12; v. 265; p. 223.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,325,037; Dec. 16; v. 269; p. 448.
- Onderdonk, Lansing, and A. J. Wohlpart, New York, N. Y., assignors to Union Special Machine Company, Chicago, Ill. Ruffling sewing-machine. No. 1,296,550; Mar. 4; v. 260; p. 164.
- One Wheel Truck Company. (See Goodhart and Parrott, assignors.)
- Onepiece Bifocal Lens Company. (See Bugbee, Lucian W., assignor.)
- Onerheim, Christopher H., Bend, Ore. Condiment-holder. No. 1,292,959; Jan. 28; v. 258; p. 782.
- Ong, Harlon F., Portland, Ore. Carbureter device. No. 1,311,088; July 22; v. 264; p. 664.
- Onlake Company. (See Taylor, Clarence W., assignor.)
- Ono, Takano, Sedgwick, Colo. Crust-breaking attachment for cultivators. No. 1,310,924; July 22; v. 264; p. 633.
- Onstott, Jacob T., Yuba City, assignor to E. E. Sowell, Sacramento, Calif. Tractor cut-out plow. No. 1,301,305; Apr. 22; v. 261; p. 681.
- Oppenorth, Henry, Sheboygan, Wis. Packing-pad. No. 1,324,132; Dec. 9; v. 269; p. 215.
- Oppenorth, Henry, Sheboygan, Wis. Knockdown collapsible shipping-crate. No. 1,324,168; Dec. 9; v. 269; p. 222.
- Opie, Leslie E., Cedar Rapids, Iowa. Means for saving radiator-overflow. No. 1,317,723; Oct. 7; v. 267; p. 12.
- Opitz, Fred M., assignor to Perflex Radiator Company, Racine, Wis. Forming sheet metal. No. 1,316,636; Sept. 23; v. 266; p. 471.
- Opitz, Herman M., Norwich, Conn. Adjustable window-screen. No. 1,299,016; Apr. 1; v. 261; p. 92.
- Oppenheim, Arnold L., New York, N. Y. Pencil attachment for fountain-pens. No. 1,302,585; May 6; v. 262; p. 19.
- Oppenheimer, William, Brawley, Calif. Vulcanizing device. No. 1,323,544; Dec. 2; v. 269; p. 61.
- Opperman, Otto F., Seattle, Wash. Internal-combustion engine. No. 1,292,634; Jan. 28; v. 258; p. 706.
- Oppermann, Charles, et al. (See Warman, Samuel W., assignor.)
- Optical Specialty Manufacturing Company. (See Bernheim, Eugene C., assignor.)
- Optical Appliance Corporation, The. (See Cossman, Joseph H., assignor.)
- Orange, Peter, New York, N. Y. Making ductile bodies of refractory materials. No. 1,297,000; Mar. 11; v. 260; p. 304.
- Orange, John A., Schenectady, N. Y., assignor to General Electric Company. Inclosed-arc device. No. 1,306,559; June 10; v. 263; p. 281.
- Orange Novelty Co., The. (See Otis, Charles H., assignor.)
- Orawiec, Jan, New Salem, Pa. Cooking vessel. No. 1,294,942; Feb. 18; v. 259; p. 525.
- Orbin, George, assignor of one-third to J. M. Jones, Milwaukee, Wis. Spring-wheel. No. 1,313,501; Aug. 19; v. 265; p. 361.
- Orchestrelle Company, The. (See Mowbray, Frank H., assignor.)
- Ord, Edward O. C., U. S. Army. Miner's gold-pan. No. 1,292,364; Jan. 21; v. 258; p. 619.
- Ordinator Company. (See Brixey, Austin D., assignor.)
- Ordinance Engineering Corporation. (See Bergman, Axel G., assignor.)
- Ordway, Joseph H., Brookline, assignor to Boston Blacking Company, Cambridge, Mass. Machine for use in manufacturing stiffeners for boots and shoes. No. 1,312,567; Aug. 12; v. 265; p. 165.
- Ore, David A., Mountain Grove, Mo. Balt-carrying attachment for fishhooks. No. 1,325,530; Dec. 23; v. 269; p. 558.
- Oré, Ernest, Caen, France. Regenerating coke-furnace. No. 1,291,621; Jan. 14; v. 258; p. 406.
- Orear, Benjamin F. (See Nichols and Orear.)
- Oregon Woodenware Manufacturing Company. (See Springer, Aaron M., assignor.)
- Orewiler, Benjamin F., Chicago, Ill. Fabric-clamp. No. 1,316,387; Sept. 16; v. 266; p. 375.
- Orino, Sam. (See Peterson, William E., assignor.)
- Orloff, Nick, Sparrows Point, Md. Laundry-hanger. No. 1,301,494; Apr. 22; v. 261; p. 717.
- Orloff, Nick, Sparrows Point, Md. Portable carrier. No. 1,307,597; June 24; v. 263; p. 536.
- Orman, John A., Ashland, Mont. Broom-hanger. No. 1,305,486; June 3; v. 263; p. 48.
- Ormandy, Jean H., Healdsburg, Calif. Milk-pail holder. No. 1,326,086; Dec. 23; v. 269; p. 661.
- Ormes, William R., Waltham, assignor to Universal Safety Tread Company, Boston, Mass. Tread for stairs and the like. No. 1,319,895; Oct. 28; v. 267; p. 535.
- Ormiston, Frank W. (See Mackey and Ormiston.)
- Ormiston, John A., Calgary, assignor of thirty-three and one-third one-hundredths to J. W. Heffernan, Edmonton, Alberta, Canada. Head-lamp adjuster. No. 1,304,505; May 20; v. 262; p. 446.
- Ormsby, Donald D., and C. H. Logue, assignors to Brown-Lipe-Chapin Co., Syracuse, N. Y. Gear-lapping machine. No. 1,304,699; May 27; v. 262; p. 521.
- Ormsby, James I., Jersey City, N. J. Portable ash-sifter. No. 1,314,424; Aug. 26; v. 265; p. 571.
- Orne, Ruel E., Everett, Wash. Combined buffet and dining-table. No. 1,297,489; Mar. 18; v. 260; p. 437.
- OrNSTEIN, Georg, New York, N. Y., assignor to Electro Bleaching Gas Company. Bleaching. No. 1,298,552; Mar. 25; v. 260; p. 690.
- OrNSTEIN, Georg, New York, N. Y., assignor to Electro Bleaching Gas Company. Bleaching process. No. 1,298,553; Mar. 25; v. 260; p. 690.
- OrNSTEIN, Georg, New York, N. Y., assignor to Electro Bleaching Gas Company. Bleaching. No. 1,298,554; Mar. 25; v. 260; p. 690.



- Ornstein, Georg, New York, N. Y., assignor to Electro Bleaching Gas Company. Preparing ampuls containing liquefied gas. No. 1,325,799; Dec. 23; v. 269; p. 607.
- Orr, Andrew. (See Johnston, Fred, assignor.)
- Orr, Clark, Fort Wayne, Ind., assignor to General Electric Company. Rotary refrigerating-machine. No. 1,326,686; Dec. 30; v. 269; p. 810.
- Orr, Clifford B., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Combined steam and acid splice cure for inner tubes. No. 1,317,665; Sept. 30; v. 266; p. 701.
- Orr, James E., Dallas, Tex. Window-shade guide. No. 1,323,646; Dec. 2; v. 269; p. 79.
- Orr, John E., New York, N. Y., assignor to Chamberlin Metal Weather Strip Co., Detroit, Mich. Model illustrating window construction. No. 1,292,508; Jan. 28; v. 258; p. 674.
- Orr, Louis H., New York, N. Y. Partially simulating hand-made paper. No. 1,299,216; Apr. 1; v. 261; p. 136.
- Orr, Thomas, Racine, Wis. Windlass. No. 1,321,939; Nov. 18; v. 268; p. 413.
- Orr, Walker P., Diana, Tenn. Quilter-frame. No. 1,311,413; July 29; v. 264; p. 758.
- Orr, William V., Cleveland, Ohio. Suction cleaning device. No. 1,314,693; Sept. 2; v. 266; p. 42.
- Orrock, John W., Montreal, assignor to J. M. R. Fairbairn, Westmount, for himself and in trust for R. W. McKillop, Montreal, Quebec, Canada, and said Orrock. Smoke-jack. No. 1,314,016; Aug. 26; v. 265; p. 493.
- Orth, Henry J., Jr., Sewickley, Pa. Torch. No. 1,291,096; Jan. 14; v. 258; p. 285.
- Ortiz, Julien, Greenville, Del. Incendiary ball. No. 1,294,150; Feb. 11; v. 259; p. 305.
- Orton, Myron, Vineland, N. J. Theatrical appliance. No. 1,301,963; Apr. 29; v. 261; p. 838.
- Ortseifen, Adolph J., Chicago, Ill. Form for concrete building construction. No. 1,325,261; Dec. 16; v. 269; p. 491.
- Orvig, Karl B., Fredrikstad, Norway. Apparatus for holding and feeding angle-iron. No. 1,315,392; Sept. 9; v. 266; p. 178.
- Orville, Simpson Company, The. (See Simpson, Lowe E., assignor.)
- Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 1,315,192; Sept. 2; v. 266; p. 131.
- Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 1,315,193; Sept. 2; v. 266; p. 131.
- Osborn, E. Lemuel, Seattle, Wash. Wave-motor. No. 1,314,147; Aug. 26; v. 265; p. 517.
- Osborn, Frank O. (See Dinsmore, Raymond, assignor.)
- Osborn, George W., assignor of one-fourth to W. C. Urban, Granite City, Ill., and one-half to Hoyt Metal Company, St. Louis, Mo. Expanding mandrel. No. 1,293,525; Feb. 4; v. 259; p. 128.
- Osborn, Herbert L., Seattle, Wash. Combination-trunk. No. 1,312,044; Aug. 5; v. 265; p. 36.
- Osborn, James H., Princeton, W. Va. Filler for lubricators and hand-oilers. No. 1,318,908; Oct. 14; v. 267; p. 299.
- Osborn, Jesse C., Benton Harbor, Mich. Dimmer. No. 1,295,823; Feb. 25; v. 259; p. 751.
- Osborn Manufacturing Company, The. (See Carman, Edwin S., assignor.)
- Osborn, William D. (See Treadwell, Osborn, and Newman.)
- Osborn, William G., Gary, Ind. Shock loading and hoisting truck. No. 1,314,694; Sept. 2; v. 266; p. 42.
- Osborne, Charles T., St. Louis, Mo. Explosion-turbine. No. 1,306,388; June 10; v. 263; p. 250.
- Osborne, Eugene H., Scranton, Pa. Percolator. No. 1,320,905; Nov. 4; v. 268; p. 103.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite ringing apparatus. No. 1,313,413; Aug. 19; v. 265; p. 345.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite signaling-circuits. No. 1,314,695; Sept. 2; v. 266; p. 42.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite signaling-circuits. No. 1,314,827; Sept. 2; v. 266; p. 66.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite signaling-circuits. No. 1,314,828; Sept. 2; v. 266; p. 66.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Constructing telephone-circuits. No. 1,320,489; Nov. 4; v. 268; p. 25.
- Osborne, John L., assignor to Judson Governor Company, Rochester, N. Y. Pneumatic controller. No. 1,293,178; Feb. 4; v. 259; p. 47.
- Osborne, Joseph E., Washington, D. C. Awning-fixture-clamping tool. No. 1,321,663; Nov. 11; v. 268; p. 310.
- Osborne, Ralph W., Hamilton, Ontario, Canada. Telephone protective apparatus for telephone-lines paralleling power-lines. No. 1,303,383; May 13; v. 262; p. 198.
- Osborne, Wesley M., Carthage, N. Y. Removing ink and coloring matter from printed paper. No. 1,298,779; Apr. 1; v. 261; p. 39.
- Osburn, Benjamin B. (See Byrnes and Osburn.)
- Oscanyan, Paul C., Bogota, N. J., assignor to Star Ball Player Company. Score or bulletin board. No. 1,321,940; Nov. 18; v. 268; p. 413.
- Oscar C. Rixson Co., The. (See Weber, Bruno, assignor.)
- Oseychuk, William, Allentown, Pa. Toy. No. 1,314,205; Aug. 26; v. 265; p. 528.
- Osgood Company, The. (See Barnhart, Harry J., assignor.)
- Osgood, Dana, Hopedale, Mass. Device for repairing window-screens. No. 1,324,845; Dec. 16; v. 269; p. 413.
- Osgood, Dana, assignor to Draper Corporation, Hopedale, Mass. Shuttle for slide-motion feeler-loom. No. 1,303,583; May 13; v. 262; p. 234.
- Osgood, Harry H., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Eyeletting-machine. No. 1,319,413; Oct. 21; v. 267; p. 421.
- Oshana, Aghasie, Mason City, Iowa. Baby-walking device. No. 1,300,292; Apr. 15; v. 261; p. 431.
- Osher, Julius C., Anaheim, Calif. Universal dentist's and jeweler's tool. No. 1,311,414; July 29; v. 264; p. 758.
- Oshkosh Trunk Company. (See Bruce, Herbert F., assignor.)
- Osius, Frederick J., Racine, Wis. Electric connector. No. 1,323,375; Dec. 2; v. 269; p. 29.
- Osiwala, Ignatius A., Detroit, Mich. Mail-box. No. 1,297,227; Mar. 11; v. 260; p. 353.
- Oslund, Charles H. (See Johnson and Oslund.)
- Osmer, John E., Owosso, Mich. Cinder and clinker pulverizer. No. 1,319,611; Oct. 21; v. 267; p. 459.
- Osmondson, Osmond A., Salina, Kans. Combination post-drill and portable hand-drill. No. 1,296,691; Mar. 11; v. 260; p. 233.
- Osmondson, Osmond A., Chicago, Ill. Speed-transformer. No. 1,320,645; Nov. 4; v. 268; p. 53.
- Osmun, Orville R., Covington, Ky. Lifting-jack. No. 1,312,568; Aug. 12; v. 265; p. 165.
- Osmun, Russell A., New York, N. Y. Structural member. No. 1,297,228; Mar. 11; v. 260; p. 353.
- Osol, Fritz E. (See Barron and Osol.)
- Osram-Robertson Lamp Works. (See Durdle, Oswald, assignor.)
- Osro Chemical Co. (See Paiton, James H., assignor.)
- Osro Chemical Company. (See Wood, John H., assignor.)
- Ossenbeck, Anton. (See Heymann, Dressel, Kothe, and Ossenbeck.)
- Ossry, David, New York, N. Y. Iron-stand. No. 1,312,349; Aug. 5; v. 265; p. 92.
- Osteen, Charles R., Portland, Oreg. Milk-can filler. No. 1,318,581; Oct. 14; v. 267; p. 237.
- Osteman, Carl G., assignor to S. A. Woods Machine Company, Boston, Mass. Binding and weighting system for belt-drives. No. 1,325,954; Dec. 23; v. 269; p. 636.
- Osten, Charles, New Haven, Conn. Detachable heel. No. 1,306,389; June 10; v. 263; p. 250.
- Osten, Charles, New Haven, Conn. Combined button and belt loop. No. 1,313,640; Aug. 19; v. 265; p. 388.
- Osten, James H., assignor of two-fifths to R. G. Osten and one-fifth to F. Knudson, White City, Kans. Post-setting device. No. 1,298,379; Mar. 25; v. 260; p. 652.
- Osten, Robert G., et al. (See Osten, James H., assignor.)
- Ostenberg, Pontus, Los Gatos, Cal. Impulse-starter for magnetos. No. 1,291,097; Jan. 14; v. 258; p. 285.
- Ostenberg, Pontus, Santa Clara county, Calif. Impulse-starter. No. 1,307,791; June 24; v. 263; p. 572.
- Ostenberg, Pontus, assignor of one-half to J. A. Naismith, San Jose, Calif. Internal-combustion engine. No. 1,323,545; Dec. 2; v. 269; p. 61.
- Ostenberg, Zeno, San Jose, Calif. Dissolving cellulose. No. 1,315,393; Sept. 9; v. 266; p. 178.
- Ostenberg, Zeno, San Jose, Calif. Product derived from vegetable proteins. No. 1,316,854; Sept. 23; v. 266; p. 511.
- Oster, Edward J., Cold Spring, Minn. Transmission mechanism. No. 1,297,397; Mar. 18; v. 260; p. 419.
- Oster, Matthew C., Denton, Mont. Door and gate operating mechanism. No. 1,314,206; Aug. 26; v. 265; p. 529.
- Oster, Matthew C., Roy, Mont. Door and operating means therefor. No. 1,314,207; Aug. 26; v. 265; p. 529.
- Osterberg, Axel V., Fremont, Ohio. Toy. No. 1,296,844; Mar. 11; v. 260; p. 267.
- Osterberg, Axel E., and G. A. Oberg, Norway, Mich. Twine-holder. No. 1,307,062; June 17; v. 263; p. 407.
- Osterberg, Carl T., assignor of one-half to A. Hudson, Milwaukee, Wis. Calculating device. No. 1,310,961; July 22; v. 264; p. 640.
- Östergaard, Alfred J. P. (See Sörensen and Östergaard.)
- Osterheld, Clark M., Stoughton, Wis. Water-heater. No. 1,294,695; Feb. 18; v. 259; p. 468.
- Osterholm, William C., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Feed-control means for machine-tools. No. 1,291,098; Jan. 14; v. 258; p. 285.
- Osterhoudt, Burton H. (See Millard, Osterhoudt, and Cheney.)
- Ostermann, Rudolf M., Evanston, Ill., assignor to Locomotive Superheater Company, New York, N. Y. Locomotive attachment. No. 1,323,406; Dec. 2; v. 269; p. 35.



## Alphabetical list of patentees—Continued.

- Ostgaard, Paul S., Climax, Minn. Hen-nest. No. 1,325,038; Dec. 16; v. 269; p. 448.
- Ostolaza, Justo R., Los Angeles, Calif. Non-skid device and emergency-brake. No. 1,310,209; July 15; v. 264; p. 471.
- Ostolaza, Justo R., Los Angeles, Calif. Motor-vehicle air-brake. No. 1,320,906; Nov. 4; v. 268; p. 103.
- Ostolaza, Justo R., Los Angeles, Calif. Motor-vehicle. No. 1,322,725; Nov. 25; v. 268; p. 612.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-heater. No. 1,292,365; Jan. 21; v. 258; p. 619.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Assembled twin-window unit. No. 1,318,297; Oct. 7; v. 267; p. 122.
- Ostrander, Lewis F., St. Louis, Mo., assignor of one-half to J. F. Esperon, Indianapolis, Ind. Air-exhaust and vacuum seal valve. No. 1,291,099; Jan. 14; v. 258; p. 286.
- Ostrander, Lewis F., St. Louis, Mo., assignor of one-half to J. F. Esperon, Indianapolis, Ind. Supply-valve for vapor, vacuum, and steam heating systems. No. 1,297,229; Mar. 11; v. 260; p. 353.
- Ostromislensky, Iwan, Petrograd, Russia, assignor, by mesne assignments, to New York Belting and Packing Company. Vulcanizing rubber and product obtained thereby. No. 1,320,166; Oct. 28; v. 267; p. 586.
- Ostroski, Michael, Coniston, Ontario, Canada. Folding tent-frame. No. 1,306,615; June 10; v. 263; p. 291.
- Ostrowski, Stanley, Scranton, Pa. Shade-fixture. No. 1,322,937; Nov. 25; v. 268; p. 651.
- Ostul, Martin J., Ghent, Minn. Strainer support and screen. No. 1,290,303; Jan. 7; v. 258; p. 70.
- Oswald, August. (See Danner and Oswald.)
- Otis, Charles H., Hartford, assignor to The Orange Novelty Co., Orange, Conn. Electric-light cord and shade adjuster. No. 1,322,465; Nov. 18; v. 268; p. 512.
- Otis Company. (See Rood, William B., assignor.)
- Otis Elevator Co. (See Lindquist and Crabbe, assignors.)
- Otis Elevator Company. (See Furlow, Floyd C., assignor.)
- Otis Elevator Company. (See Hymans, Frederick, assignor.)
- Otis Elevator Company. (See John, Griffith, assignor.)
- Otis Elevator Company. (See Larson, David C., assignor.)
- Otis Elevator Company. (See Lindquist, David L., assignor.)
- Otis Elevator Company. (See Lindquist and Hultgren, assignors.)
- Otis Elevator Company. (See Reno, Jesse W., assignor.)
- Otis Elevator Company. (See Smith, Rudolph C., assignor.)
- Ott, Charles A., Ottawa, Kans. Direction-indicator for motor-cars. No. 1,306,118; June 10; v. 263; p. 197.
- Ott, John F., Glen Ridge, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph or talking-machine. No. 1,299,768; Apr. 8; v. 261; p. 292.
- Ott von Batorkez und Verinkhaz, Adolph, Baron, Syndicate Kensington, London, assignor to Aladdin Lamp Syndicate Limited, (in liquidation.) London, England. Machine for cutting electric bulbs and regenerating them. No. 1,313,845; Aug. 19; v. 265; p. 426.
- Ottaviano, Giovanni B., New York, N. Y., assignor to American Player Action Company. Combined tracking, transposing, and sustaining mechanism. No. 1,293,179; Feb. 4; v. 259; p. 47.
- Otte, Otho M., Jamestown, N. Y. Headlight-adjuster. No. 1,300,860; Apr. 15; v. 261; p. 551.
- Otte, Otho M., Jamestown, N. Y. Folding table. No. 1,300,861; Apr. 15; v. 261; p. 551.
- Otte, Otho M., Jamestown, N. Y. Folding table. No. 1,300,862; Apr. 15; v. 261; p. 552.
- Otte, Otho M., Jamestown, N. Y. Spot-light mounting. No. 1,300,863; Apr. 15; v. 261; p. 553.
- Otte, Otho M., Jamestown, N. Y. Automobile-lamp. No. 1,301,162; Apr. 22; v. 261; p. 652.
- Otte, Otho M., Jamestown, N. Y. Automobile-lamp. No. 1,301,163; Apr. 22; v. 261; p. 652.
- Otte, Otho M., Jamestown, N. Y. Folding table. No. 1,309,774; July 15; v. 264; p. 392.
- Otte, Otho M., Jamestown, N. Y. Sealed container. No. 1,316,460; Sept. 16; v. 266; p. 389.
- Otte, Otho M., Jamestown, N. Y. Reflector-lamp rim. No. 1,322,044; Nov. 18; v. 268; p. 432.
- Otte, Otho M., Jamestown, N. Y. Spot-light mounting. No. 1,324,615; Dec. 9; v. 269; p. 300.
- Otte, Otho M., Jamestown, N. Y., assignor to Raydex Manufacturing Company, Brackenridge, Pa. Automobile-lamp. No. 1,309,445; July 8; v. 264; p. 293.
- Otte, Otho M., Jamestown, N. Y., assignor to Raydex Manufacturing Company, Brackenridge, Pa. Automobile-lamp. No. 1,309,446; July 8; v. 264; p. 294.
- Otte, Otho M., Jamestown, N. Y., assignor to Raydex Manufacturing Company, Brackenridge, Pa. Automobile-lamp. No. 1,309,447; July 8; v. 264; p. 294.
- Otte, Otho M., Jamestown, N. Y., assignor to Raydex Manufacturing Company, Brackenridge, Pa. Automobile-lamp. No. 1,309,448; July 8; v. 264; p. 294.
- Otte, Otho M., Jamestown, N. Y., assignor to Raydex Manufacturing Company, Brackenridge, Pa. Automobile-lamp. No. 1,309,449; July 8; v. 264; p. 294.
- Otte, Otho M., Jamestown, N. Y., assignor to Raydex Manufacturing Company, Brackenridge, Pa. Automobile-lamp. No. 1,309,450; July 8; v. 264; p. 294.
- Otte, Otho M., assignor to Steelwhite Company, Jamestown, N. Y. Suspension for drawers and similar receptacles. No. 1,301,495; Apr. 22; v. 261; p. 717.
- Otte, Otho M., assignor to Steelwhite Company, Jamestown, N. Y. Removable sunken handle. No. 1,304,700; May 27; v. 262; p. 521.
- Otterson, George W., Seattle, Wash. Portable apparatus for cleaning out catch-basins. No. 1,295,056; Feb. 18; v. 259; p. 550.
- Otteson, Henry C., Calvin, N. D. Combination lunch-box and table. No. 1,325,371; Dec. 16; v. 239; p. 510.
- Ottewell, Victor G., Withrow, Minn. Internal-combustion engine. No. 1,313,414; Aug. 19; v. 265; p. 345.
- Otti, Joseph, Wichita, Kans. Air-regulator. No. 1,324,515; Dec. 9; v. 269; p. 290.
- Ottilla, Glieve. (See Bierbach, Carl F., assignor.)
- Ottinger, Leon, New York, N. Y. Fastening device. No. 1,312,199; Aug. 5; v. 265; p. 65.
- Otto, Adolph O., Oak Park, assignor to The American Toy Shop, Chicago, Ill. Toy building-block. No. 1,308,254; July 1; v. 264; p. 45.
- Otto, Albert, Kansas City, Mo. Reamer for oil and gas bearing sand. No. 1,323,905; Dec. 2; v. 269; p. 128.
- Otto, August, Jr., Sandwich, Ill. Tank-heater. No. 1,309,101; July 8; v. 264; p. 230.
- Otto, Emil J. (See Bruner and Otto.)
- Otto Heineman Phonograph Supply Co. (See Catucci, Pliny, assignor.)
- Otto, James H., Beeler, Idaho. Combination belt-loop and button. No. 1,315,856; Sept. 9; v. 266; p. 261.
- Otto, James H., Beeler, and E. C. Young, Wallace, Idaho. Tobacco-cutter. No. 1,316,056; Sept. 16; v. 266; p. 312.
- Otto, John, Chicago, Ill. Releasing-penholder. No. 1,291,622; Jan. 14; v. 258; p. 406.
- Otto Konigslow Manufacturing Company, The. (See Konigslow, Otto, assignor.)
- Otto, Maximilian J., New York, N. Y. Fluid heating and cooking stove. No. 1,312,804; Aug. 12; v. 265; p. 211.
- Otto, Maximilian J., New York, N. Y. Controller for reels for fishing-lines. No. 1,321,841; Nov. 18; v. 268; p. 395.
- Otto, Maximilian J., New York, N. Y. Support for fishing-rods. No. 1,321,842; Nov. 18; v. 268; p. 395.
- Ottosen, Christopher. (See Dasen, Paul H., assignor.)
- Ottumwa Iron Works. (See Mead, Ezra B., assignor.)
- Oubridge, William A., Coventry, England. Ring and like casting machine. No. 1,325,039; Dec. 16; v. 269; p. 448.
- Ouren, Anton O. (See Wilson, Ervon J., assignor.)
- Outerbridge, Alexander E., Jr., Philadelphia, Pa. Sand core for molds for casting metal and manufacture of such cores. No. 1,324,208; Dec. 9; v. 269; p. 230.
- Outlaw, George E., Vaughn, N. Mex. Nut-lock. No. 1,303,715; May 13; v. 262; p. 259.
- Ouzoun-Boghossian, Sissak K., New York, N. Y. Water-mixer. No. 1,316,637; Sept. 23; v. 266; p. 471.
- Ouzoun-Boghossian, Sissak K., New York, N. Y. Paper-punching machine. No. 1,325,451; Dec. 16; v. 269; p. 525.
- Ovalle (Vicuña), Alfredo, Santiago, Chile. Apparatus for raising liquids. No. 1,304,701; May 27; v. 262; p. 521.
- Over, Herbert, Siltou, Saskatchewan, Canada. Automatic release-coupling. No. 1,294,696; Feb. 18; v. 259; p. 468.
- Overbeke, John, Cleveland, Ohio. Fabric winding and measuring mechanism. No. 1,305,740; June 3; v. 263; p. 96.
- Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Shingle-strip machine. No. 1,301,964; Apr. 29; v. 261; p. 838.
- Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Roofing element. No. 1,295,360; Feb. 25; v. 259; p. 643.
- Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Prepared mineral-surfaced roofing. No. 1,314,753; Sept. 2; v. 266; p. 52.
- Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Machine for making roofing elements. No. 1,317,384; Sept. 30; v. 266; p. 647.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Method and apparatus for making prepared roofing elements. No. 1,314,476; Aug. 26; v. 265; p. 581.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Method and means for making prepared roofing elements. No. 1,314,477; Aug. 26; v. 265; p. 581.
- Overbury, Frederick C., Montclair, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Ridge-covering. No. 1,295,361; Feb. 25; v. 259; p. 643.
- Overbury, Frederick C., Rutherford, N. J., assignor to Flintkote Manufacturing Company, Boston, Mass. Machine for making fabric shingles. No. 1,301,591; Apr. 22; v. 261; p. 734.



- Overholt, John D., Wooster, Ohio. Crib and bin ventilating system. No. 1,317,309; Sept. 30; v. 266; p. 632.
- Overin, Henry C., New York, N. Y. Umbrella-loop. No. 1,293,526; Feb. 4; v. 259; p. 129.
- Overley, C. M. (See Tennant-James, assignor.)
- Overlin, Harold J., Buffalo Gap, S. D. Apparatus for separating liquids. No. 1,320,340; Oct. 28; v. 267; p. 618.
- Overlin, William S., Oswego, Oreg. Load-lifting mechanism for motor-trucks. No. 1,323,719; Dec. 2; v. 269; p. 93.
- Overman, Benjamin F., San Antonio, Tex. Shade-bracket. No. 1,314,358; Aug. 26; v. 265; p. 558.
- Overman, John C., *et al.* (See Simpson, Norman R., assignor.)
- Overmyer, Otho R., assignor to Dodge Brothers, Detroit, Mich. Back curtain for automobile-tops. No. 1,291,100; Jan. 14; v. 258; p. 286.
- Overshiner, Ellsworth B., assignor of one-half to J. B. Blackman, Chicago, Ill. Fuel-economizer. No. 1,301,000; Apr. 15; v. 261; p. 581.
- Overstreet, Emmett W., Murray, Utah. Internal-combustion engine. No. 1,310,368; July 15; v. 264; p. 499.
- Overstrom, Gustave A., Pasadena, Calif. Method of and apparatus for pulverizing frangible substances. No. 1,300,192; Apr. 8; v. 261; p. 384.
- Overton, John H., Trenton, N. J. Rubber heel-lift. No. 1,315,682; Sept. 9; v. 266; p. 229.
- Oveson, Carl A., assignor to H. S. Mills, Chicago, Ill. Woodworking-machine. No. 1,313,950; Aug. 26; v. 265; p. 480.
- Ovington, Edward J., Newton Center, Mass. Vapor-couple. No. 1,293,527; Feb. 4; v. 259; p. 129.
- Ovren, John E., assignor of one-half to J. Johnson, Stoughton, Wis. Transmission mechanism. No. 1,301,592; Apr. 22; v. 261; p. 735.
- Oweise, Henry C., Chicago, Ill. Undergarment. No. 1,320,793; Nov. 4; v. 268; p. 82.
- Owen, Albert L., Santa Rita, N. Mex. Pump. No. 1,305,487; June 3; v. 263; p. 48.
- Owen, Henry A., Whitinsville, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeder-actuating mechanism for web-replenishing looms. No. 1,291,101; Jan. 14; v. 258; p. 286.
- Owen, Henry A., Whitinsville, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,291,102; Jan. 14; v. 258; p. 287.
- Owen, Henry A., Whitinsville, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,291,103; Jan. 14; v. 258; p. 287.
- Owen, Henry A., Whitinsville, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Loom feeler-motion. No. 1,291,104; Jan. 14; v. 258; p. 287.
- Owen, Henry A., Whitinsville, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Web-replenishing loom. No. 1,291,623; Jan. 14; v. 258; p. 407.
- Owen, Henry A., Whitinsville, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Web-feeler mechanism for looms. No. 1,291,624; Jan. 14; v. 258; p. 407.
- Owen, Herbert W., Lewiston, Me., assignor to Draper Corporation, Hopedale, Mass. Method of and means for finishing the edges of woven fabrics. No. 1,307,694; June 24; v. 263; p. 554.
- Owen, Ira J., and B. J. Bouwmeester, assignors to Bissell Carpet Sweeper Co., Grand Rapids, Mich. Handle. No. 1,309,775; July 15; v. 264; p. 392.
- Owen, Joseph W. (See Baker and Owen.)
- Owen, Lewis W. (See Borden and Owen.)
- Owen, Oscar L., assignor to Whitin Machine Works, Whitinsville, Mass. Belt-shipper. No. 1,303,952; May 20; v. 262; p. 341.
- Owen, Richard B., Washington, D. C. Internal-combustion engine. No. 1,297,897; Mar. 18; v. 260; p. 525.
- Owen, Richard B., Washington, D. C. Rudder. No. 1,302,956; May 6; v. 262; p. 91.
- Owen, Richard B., Washington, D. C. Marine propulsion mechanism. No. 1,302,957; May 6; v. 262; p. 91.
- Owen, Ruth C., Port Jervis, N. Y. Christmas-tree holder. No. 1,298,380; Mar. 25; v. 260; p. 652.
- Owen, Willie. (See Melloy and Owen.)
- Owens Bottle Machine Company, The. (See La France, Richard, assignor.)
- Owens Bottle Machine Company, The. (See Whittemore, James, assignor.)
- Owens, Charles, Chattanooga, Tenn. Tilling-machine. No. 1,294,346; Feb. 11; v. 259; p. 350.
- Owens, Charles, Chattanooga, Tenn., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing apparatus. No. 1,301,306; Apr. 22; v. 261; p. 681.
- Owens, Charles C. (See Owens, Isaac B., assignor.)
- Owens, Gertrude H., Elkins, W. Va. Shipping-bag. No. 1,317,641; Sept. 30; v. 266; p. 696.
- Owens, Isaac B., New York, N. Y., assignor to C. C. Owens, Detroit, Mich. Spark-plug. No. 1,306,834; June 17; v. 263; p. 364.
- Owens, Isaac N., Janelaw, W. Va. Metal roofing. No. 1,292,960; Jan. 28; v. 258; p. 782.
- Owens, Jesse C., Los Angeles, Calif. Muffler-valve ball-cock. No. 1,313,831; Aug. 19; v. 265; p. 424.
- Owens, John B., Metuchen, N. J. Sanitary incinerator. No. 1,303,584; May 13; v. 262; p. 234.
- Owens, John B., Metuchen, N. J. Kiln-car. No. 1,321,388; Nov. 11; v. 268; p. 259.
- Owens, Jonah P., Stantonburg, N. C. Dust-shield for transplanters. No. 1,316,921; Sept. 23; v. 266; p. 523.
- Owens, Louis C., New York, N. Y. Coupling device for vehicles. No. 1,295,193; Feb. 25; v. 259; p. 605.
- Owens, Louis C., New York, N. Y. Coupling device for vehicles. No. 1,301,307; Apr. 22; v. 261; p. 682.
- Owens, Michael J., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Apparatus for making sheet-glass. No. 1,319,175; Oct. 21; v. 267; p. 376.
- Owens, Michael J., assignor to The Toledo Glass Company, Toledo, Ohio. Glass gathering and blowing machine. No. 1,322,726; Nov. 25; v. 268; p. 612.
- Owens, Robert J., Minneapolis Minn. Wild-oat and barley separator. No. 1,299,379; Apr. 1; v. 261; p. 173.
- Owney, Arthur A. (See Owney, Lee A. and A. A.)
- Owney, Lee A. and A. A., Chattanooga, Tenn. Direction-indicator. No. 1,292,028; Jan. 21; v. 258; p. 537.
- Oxwell Acetylene Company. (See Bryce, Chalmers K., assignor.)
- Oysler, Rupert N., Davenport, Iowa. Wrench. No. 1,326,526; Dec. 30; v. 269; p. 781.
- Ozouf, Arthur E. (See Watson and Ozouf.)
- Ozouf, Arthur E., Chicago, Ill., assignor to Allbright-Nell Company. Carcass debairing and cleaning machine. No. 1,322,607; Nov. 25; v. 268; p. 590.
- P. Derby & Company. (See Bancroft, Frank H., assignor.)
- P. Lorillard Company. (See Maloney, Thomas J., assignor.)
- P. Lorillard Company. (See Williams, George M., assignor.)
- P. A. Geier Co., The. (See Hedges, George L., assignor.)
- P. A. Geier Co., The. (See Kelman, Joseph N., assignor.)
- P. A. Geier Company, The. (See Trautman, Walter G., assignor.)
- P. B. Yates Machine Company. (See Lane, Franklin L., assignor.)
- P. B. Yates Machine Company. (See Lane and Weaver, assignors.)
- P. H. Murphy Company. (See Bonsall and Wolff, assignors.)
- P. H. Murphy Company. (See Brewer, William A., assignor.)
- P. H. Murphy Company. (See Brewer and Gruendling, assignors.)
- P. H. Murphy Company. (See Brewer and Hoppel, assignors.)
- P. H. Murphy Company. (See Gilpin, Garth G., assignor.)
- P. H. Murphy Company. (See Murphy, Walter F., assignor.)
- P. H. Murphy Company. (See Wolff, Frank W., assignor.)
- P & M Company, The. (See Alfreds, Torris H., assignor.) (Reissue.)
- P & M Company, The. (See Berkeley, Laurence J., assignor.)
- P & M Company, The. (See Poor, Fred A., assignor.)
- P & M Company, The. (See Warr, Harold G., assignor.)
- P. R. Glass Company. (See Glass, Perley R., assignor.)
- P. R. Glass Company. (See McIntire, James E., assignor.)
- P. T. Wheel Company, The. (See Pavesi and Tolotti, assignors.)
- Paasche, Jens A., Chicago, Ill. Electric fluid-heater. No. 1,293,896; Feb. 11; v. 259; p. 245.
- Paasche, Jens A., Chicago, Ill. Pneumatic coating apparatus. No. 1,311,839; July 29; v. 264; p. 836.
- Paban, Henri, assignor to himself and A. Grawitz, Marseille, France. Illuminated aiming apparatus or the like. No. 1,304,702; May 27; v. 262; p. 521.
- Paban, Jean, St.-Ouen, France. Fuse for hand-grenades and other explosive-engines. No. 1,315,857; Sept. 9; v. 266; p. 262.
- Pace, Ernest, assignor of one-half to T. L. McFarland, Wirt, Okla. Nut-lock. No. 1,293,180; Feb. 4; v. 259; p. 47.
- Pace, Ernest M. (See Fauble, Don W., assignor.)
- Pace, Gaetano J., San Jose, Calif. Car-repairer's truck. No. 1,298,381; Mar. 25; v. 260; p. 652.
- Pache, Auguste, New York, N. Y. Spark-plug and priming device. No. 1,325,262; Dec. 16; v. 269; p. 491.
- Pacific Burt Company. (See Johnston, Clarence L., assignor.)
- Pacific Car & Foundry Co. (See Jarvis, Herbert C., assignor.)
- Pacific Coast Borax Company. (See Prock, Joseph, assignor.)
- Pacific Coast Typewriter Company. (See Bennett, Orin, assignor.)
- Pacific Electric Welder & Mfg. Co. (See Thornblade, Carl H., assignor.)
- Pacific Evaporator Company. (See Clifford, Samuel J., assignor.)
- Pacific Evaporator Company. (See King, Ralph W., assignor.)
- Pacific Evaporator Company. (See Rea, Robert, assignor.)
- Pacific Evaporator Company. (See Shepard, Henry L., assignor.)



*Alphabetical list of patents—Continued.*

- Pacific Evaporator Company. (See Unruh, Albert A., assignor.)
- Pacific Evaporator Company. (See Wittenberg and King, assignors.)
- Pacific Flush Tank Company. (See Cox, James W., assignor.)
- Pacific Foundry Company. (See Baird, Frank, assignor.)
- Pacific Manufacturing & Electric Company. (See Heiser, Charles J., assignor.)
- Pacific Porcelain Ware Company. (See Duffey, George F., assignor.)
- Pack, Charles, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Forming die-castings. No. 1,299,769; Apr. 8; v. 261; p. 292.
- Pack, Charles, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Mold. No. 1,301,965; Apr. 29; v. 261; p. 838.
- Pack, Charles, Brooklyn, N. Y., assignor to Doehler Die Casting Company. Casting process. No. 1,302,958; May 6; v. 262; p. 91.
- Pack, Charles, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Casting process. No. 1,321,470; Nov. 11; v. 268; p. 174.
- Pack, Charles, and L. F. Nock, New York, assignors to Doehler Die Casting Company, Brooklyn, N. Y. Making molds. No. 1,308,861; July 8; v. 264; p. 184.
- Pack, Charles, and L. F. Nock, assignors to Doehler Die Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,308,862; July 8; v. 264; p. 184.
- Package Machinery Company. (See Armstrong, Harry Y., assignor.)
- Package Machinery Company. (See Fischer, Hermann O., assignor.)
- Package Machinery Company. (See Heck, Augustus, assignor.)
- Package Machinery Company. (See Redington and Milmo, assignors.)
- Package Machinery Company. (See Smith, Elmer L., assignor.)
- Package Machinery Company. (See Smith and Phelon, assignors.)
- Packard, Charles T. (See Mills and Packard.)
- Packard, Everett T., Avon, Mass. Lug-strap. No. 1,305,402; June 3; v. 263; p. 32.
- Packard, Horace N., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Fluid-meter. No. 1,321,546; Nov. 11; v. 268; p. 288.
- Packard, Horace N., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Fluid-meter. No. 1,325,040; Dec. 16; v. 269; p. 449.
- Packard, Leo E., et al. (See Jackson, Alfred A., assignor.)
- Packard Motor Car Company. (See Barrow, Benjamin D., assignor.)
- Packard Motor Car Company. (See Be Gole, James, assignor.)
- Packard Motor Car Company. (See Beall, Frank F., assignor.)
- Packard Motor Car Company. (See Blaine, Walter E., assignor.)
- Packard Motor Car Company. (See Church, Harold D., assignor.)
- Packard Motor Car Company. (See Derr, Charles E., assignor.)
- Packard Motor Car Company. (See Goddard, George E., assignor.)
- Packard Motor Car Company. (See Hill, Lewis C., assignor.)
- Packard Motor Car Company. (See Holderman, Charles F., assignor.)
- Packard Motor Car Company. (See Huff, Russell, assignor.)
- Packard Motor Car Company. (See Hunt, Ormond E., assignor.)
- Packard Motor Car Company. (See Loomis, Allen, assignor.)
- Packard Motor Car Company. (See Lynn, George F., assignor.)
- Packard Motor Car Company. (See McCain, George L., assignor.)
- Packard Motor Car Company. (See Stout, William B., assignor.)
- Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
- Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
- Packard Motor Car Company. (See Woolson, Harry T., assignor.)
- Packard, William F., Brockton, Mass. Edge-finishing machine. No. 1,317,452; Sept. 30; v. 266; p. 659.
- Packer Auto Specialty Company. (See Packer, Eben R., assignor.)
- Packer, Eben R., Wilmette, Ill. Motor-driven rail-saw. No. 1,326,285; Dec. 30; v. 269; p. 735.
- Packer, Eben R., Wilmette, assignor to Packer Auto Specialty Company, Chicago, Ill. Tire-holder. No. 1,306,712; June 17; v. 263; p. 342.
- Packer, Warren J., Meriden, Conn. Soft-nose hammer. No. 1,298,382; Mar. 25; v. 260; p. 652.
- Packmore Manufacturing Company. (See Collier Frederick W., assignor.)
- Pacz, Aladar, Cleveland, Ohio, assignor to General Electric Company. Metal and its manufacture. No. 1,299,017; Apr. 1; v. 261; p. 92.
- Paddison, Bert M., and C. G. Earlenbaugh, Akron, Ohio. Heating attachment for gas-lamps. No. 1,297,230; Mar. 11; v. 260; p. 353.
- Paddock, Gustavus A., Beaver Dam, Wis. Clothes-wringer. No. 1,295,580; Feb. 25; v. 250; p. 695.
- Pado, George A., and C. T. Neitzel, Dallas, Tex. Needle for hand-embroidery and similar work. No. 1,309,601; July 8; v. 264; p. 323.
- Padgett, Thomas, East Palestine, Ohio. Dirigible headlight. No. 1,311,290; July 29; v. 264; p. 734.
- Padilla, Rafael, Habana, Cuba. Advertising device. No. 1,313,110; Aug. 12; v. 265; p. 272.
- Paffenbarger, Alfred G., Los Angeles, Calif. Waterproof seam for composition-board. No. 1,299,999; Apr. 8; v. 261; p. 340.
- Page, Albert A. (See Voight and Page.)
- Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Detent for panic-bolts and the like. No. 1,306,560; June 10; v. 263; p. 281.
- Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,309,300; July 8; v. 264; p. 267.
- Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,316,177; Sept. 16; v. 266; p. 335.
- Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,316,178; Sept. 16; v. 266; p. 335.
- Page, Clarence C., Grants Pass, Oreg., assignor to The National Wrapping Machine Corporation, Newport, Vt. Wrapping-machine. No. 1,290,027; Jan. 7; v. 258; p. 3.
- Page, Elton J., Franklin, Nebr. Beet-harvester. No. 1,297,231; Mar. 11; v. 260; p. 354.
- Page, Emmett L., Pontiac, Mich. Molding device for forming bearings, etc. No. 1,321,122; Nov. 11; v. 268; p. 207.
- Page, Ervin L., Georgetown, assignor to Page Machine Co. Inc., Haverhill, Mass. Heel-lift-cementing machine. No. 1,320,410; Nov. 4; v. 268; p. 10.
- Page, Frank C. B., assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscope. No. 1,294,697; Feb. 18; v. 259; p. 468.
- Page, Frank H., Waverly, Iowa. Hog-waterer. No. 1,308,806; July 8; v. 264; p. 174.
- Page, Frank L., Indianapolis, Ind. Governing-valve. No. 1,294,151; Feb. 11; v. 259; p. 305.
- Page, Frederick H., London, England. Union for attachment of struts or frames in aircraft. No. 1,311,706; July 29; v. 264; p. 812.
- Page, Frederick H., London, England. Attachment device for connection of tension-wires to aircraft-spars. No. 1,314,536; Sept. 2; v. 266; p. 11.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Stream-line hollow spar or strut for aircraft. No. 1,317,032; Sept. 23; v. 266; p. 544.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Detachable power unit for aircraft. No. 1,317,591; Sept. 30; v. 266; p. 687.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Power unit for aircraft. No. 1,319,414; Oct. 21; v. 267; p. 422.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Balanced aileron and pivoted control for aircraft. No. 1,320,341; Oct. 28; v. 267; p. 618.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Lamination for distributing tension strains on spars of aircraft. No. 1,320,342; Oct. 28; v. 267; p. 618.
- Page, Henry B., Boyle, Miss. Indicator. No. 1,290,648; Jan. 7; v. 258; p. 153.
- Page, John H. (See Foster, Reginald H., assignor.)
- Page, Louis A., Providence, R. I. Tire-casing. No. 1,292,961; Jan. 28; v. 258; p. 782.
- Page, Lovell H., assignor to Winchester Repeating Arms Co., New Haven, Conn. Windage-sight for firearms. No. 1,291,684; Jan. 14; v. 258; p. 421.
- Page Machine Co. (See Page, Ervin L., assignor.)
- Page, Norman S., Brooklyn, N. Y. Magnetically-operated toy. No. 1,323,232; Nov. 25; v. 268; p. 708.
- Page, Robert L., Greenville, Miss. Type-writer attachment. No. 1,321,664; Nov. 11; v. 268; p. 310.
- Page, William K., Chicago, Ill., assignor to Chili Exploration Company, New York, N. Y. Production of electrodes. No. 1,302,959; May 6; v. 262; p. 91.
- Page, William K., Orange, N. J., assignor to Chile Exploration Company, New York, N. Y. Belt conveyor. No. 1,313,111; Aug. 12; v. 265; p. 272.
- Page, William O., Tucson, Ariz. Valve-remover. No. 1,319,415; Oct. 21; v. 267; p. 422.
- Pagendarm, John F., San Francisco, assignor of seventy per cent. to J. W. Shannon, San Rafael, ten per cent. to W. Von Hacht, ten per cent. to W. C. R. Taylor, and ten per cent. to W. F. Clewe, Sonoma, Calif. Rotary-valve gas-engine. No. 1,308,722; July 1; v. 264; p. 131.
- Pagliuca, Antonio, Boston, assignor, by mesne assignments, to National Equipment Company, Springfield, Mass. Chocolate-coating machine and the like. No. 1,302,205; Apr. 29; v. 261; p. 883.



- Pahlow, Gustav C., assignor of one-half to H. J. Olson, Galesburg, Ill. Coffin-handle. No. 1,302,423; Apr. 29; v. 261; p. 925.
- Paige, Arthur E., Philadelphia, Pa. Making bifocal lenses. No. 1,302,960; May 6; v. 262; p. 92.
- Paige-Detroit Motor Car Company. (See Mather, Gurdon C., assignor.)
- Paige, James H., Manchester, N. H. Shaking-mixer. No. 1,312,569; Aug. 12; v. 265; p. 166.
- Pain, Henry J., New York, N. Y. Rocket. No. 1,297,898; Mar. 18; v. 260; p. 525.
- Pain, Henry J., New York, N. Y. Rocket. No. 1,299,217; Apr. 1; v. 261; p. 136.
- Pain, William, Little Rock, Wash., assignor of one-fourth to J. Nicholis, one-fourth to S. Lazzuri, and one-fourth to A. Lazzuri, Seattle, Wash. Aerial machine. No. 1,309,152; July 8; v. 264; p. 240.
- Paine, Cecil E., Bath, Me. Hydraulic steering-gear. No. 1,292,029; Jan. 21; v. 258; p. 538.
- Paine, Cecil E., Bath, Me. Ship's steering-gear. No. 1,309,076; July 8; v. 264; p. 225.
- Paine, Sidney W., Edson, Alberta, Canada. Chair. No. 1,326,417; Dec. 30; v. 269; p. 759.
- Paine, Walter J. (See Casper, Frank, assignor.)
- Paiton, James H., assignor, by mesne assignments, to Osro Chemical Co., Chicago, Ill. Making glue. No. 1,318,106; Oct. 7; v. 267; p. 84.
- Pajeau, Charles H., Evanston, Ill. Toy. No. 1,325,651; Dec. 23; v. 269; p. 580.
- Pakeman, Harry, Niles, Ohio. Suction fly-catcher. No. 1,313,203; Aug. 12; v. 265; p. 290.
- Pakstas, Justinas, Harrison, N. J. Self-leveling chair. No. 1,320,490; Nov. 4; v. 268; p. 25.
- Paldani, George F., Waukegan, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Ignition mechanism for internal-combustion engines. No. 1,299,770; Apr. 8; v. 261; p. 292.
- Paley, Harry, Millis, Mass. Apparatus for feeding roll-music. No. 1,316,179; Sept. 16; v. 266; p. 336.
- Palis, August L., Upland, Calif. Watch-holder. No. 1,315,326; Sept. 9; v. 266; p. 166.
- Palladino, Giuseppe, Allentown, Pa. Billiard-cue-tip holder. No. 1,311,707; July 29; v. 264; p. 812.
- Pallansch, John P., Fredonia, Wis. Green-pea cleaner. No. 1,298,086; Mar. 25; v. 260; p. 590.
- Pallen, Alfred H., Seattle, Wash. Game. No. 1,320,267; Oct. 28; v. 267; p. 605.
- Palm, Elmer E., Mount Penn, Pa. Wagon-wheel. No. 1,320,491; Nov. 4; v. 268; p. 25.
- Palm, Victor H., Butler, Pa. Combined inlet and exhaust valve. No. 1,325,904; Dec. 23; v. 269; p. 627.
- Palmer, Charles C. (See Dana and Palmer.)
- Palmer, Charles C. (See Haskell, Brueske, and Palmer.)
- Palmer, Charles S., Pittsburgh, Pa. Treating petroleum residues, &c. No. 1,313,009; Aug. 12; v. 265; p. 252.
- Palmer, Charles W., Sandpoint, Idaho. Valve-spring lifter. No. 1,301,733; Apr. 22; v. 261; p. 763.
- Palmer, Erik S., assignor to Winchester Repeating Arms Co., New Haven, Conn. Luminous sight for firearms. No. 1,307,063; June 17; v. 263; p. 406.
- Palmer, Fenn H., and S. C. Carter, assignors to J. R. Palmer, Los Angeles, Calif. Automatic self plumbing and oiling pump-head. No. 1,317,096; Sept. 23; v. 266; p. 556.
- Palmer, Frederick. (See Fereday, Harry J., assignor.)
- Palmer, George E., Brooklyn, assignor of one-half to M. C. Runk, Baltimore, Md. Cement-catching receptacle. No. 1,300,000; Apr. 8; v. 261; p. 341.
- Palmer, George L., Washington, D. C. Retaining-clip for music-lyres. No. 1,321,941; Nov. 18; v. 268; p. 413.
- Palmer, Granville E., Brookline, Mass. Service-switch. No. 1,299,602; Apr. 8; v. 261; p. 522.
- Palmer, Harold N., Griswoldville, Mass. Resilient tire. No. 1,322,608; Nov. 25; v. 268; p. 590.
- Palmer, Henry J., Brooklyn, N. Y. Passenger's side platform for cars. No. 1,297,002; Mar. 11; v. 260; p. 305.
- Palmer, Horace P., Manchester, Ga. Tool-holder for lathes. No. 1,323,092; Nov. 25; v. 268; p. 681.
- Palmer, Irom G. (See Winesburg and Palmer.)
- Palmer, Jacob M., Brooklyn, N. Y. Fernery. No. 1,295,581; Feb. 25; v. 259; p. 695.
- Palmer, James R. (See Palmer and Carter, assignors.)
- Palmer, John C., Philadelphia, Pa. Vehicle-indicating device. No. 1,291,625; Jan. 14; v. 258; p. 407.
- Palmer, John F., Riverside, Ill. Pneumatic tire. No. 1,293,528; Feb. 4; v. 259; p. 129.
- Palmer, John V., Pittsburgh, Pa. Chair. No. 1,301,001; Apr. 15; v. 261; p. 581.
- Palmer-Jones, Daniel, Stockwell, London, assignor of one-half to The Patent Rapid Scaffold Tie Company Limited, Stockwell, England. Device for connecting together members such as scaffold-poles and the like. No. 1,300,864; Apr. 15; v. 261; p. 552.
- Palmer, Kenneth A., and J. C. Irvin, New York, N. Y. Tube-folding machine. No. 1,305,666; June 3; v. 263; p. 83.
- Palmer, Kenneth A., and J. C. Irvin, New York, N. Y. Mold. No. 1,307,372; June 24; v. 263; p. 496.
- Palmer, Lillian P. and O. F., San Diego, Calif. Camping-trailer. No. 1,320,794; Nov. 4; v. 268; p. 82.
- Palmer, Lindley G., Cincinnati, Ohio, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric seam-welding apparatus. No. 1,304,703; May 27; v. 262; p. 521.
- Palmer, Lyndon C., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Box-making machine. No. 1,312,570; Aug. 12; v. 265; p. 166.
- Palmer, Lyndon C., assignor to The F. N. Burt Company, Limited, Buffalo, N. Y. Box making and covering machine. No. 1,320,492; Nov. 4; v. 268; p. 25.
- Palmer, Martin J., Seattle, Wash. Safety-clip. No. 1,311,574; July 29; v. 264; p. 788.
- Palmer, Oscar F. (See Palmer, Lillian P. and O. F.)
- Palmer, Roy C., Nevada, Mo. Marker. No. 1,310,369; July 15; v. 264; p. 500.
- Palmer, Theodore D., assignor to United States Hoffman Machinery Company, Syracuse, N. Y. Clothes-pressing machine, drying attachment. No. 1,319,108; Oct. 21; v. 267; p. 362.
- Palmer, Theron R., Erie, Pa. Pedal-rubber for bicycle-pedals. No. 1,320,025; Oct. 28; v. 267; p. 560.
- Palmer, William B., Conejo, Calif. Check-book. No. 1,307,143; June 17; v. 263; p. 421.
- Palmer, William T., and F. E. Abbott, Coalinga, Calif. Oil-burner. No. 1,311,575; July 29; v. 264; p. 788.
- Palmés, Fermin, Eddystone, Pa. Swimming appliance. No. 1,316,639; Sept. 23; v. 266; p. 471.
- Palmetto Products Company. (See Lowry, George A., assignor.)
- Palmgren, Carl A., Chicago, Ill. Spool-holding spindle. No. 1,316,638; Sept. 23; v. 266; p. 471.
- Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Determining the pressure between two bodies. No. 1,312,805; Aug. 12; v. 265; p. 211.
- Palmquist, Eric W., assignor to American Steel Foundries, Chicago, Ill. Brake-hanger equipment. No. 1,323,310; Dec. 2; v. 269; p. 17.
- Palmquist, Eric W., assignor to American Steel Foundries, Chicago, Ill. Brake-hanger mechanism. No. 1,325,531; Dec. 23; v. 269; p. 558.
- Palmquist, Eric W., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. No. 1,325,532; Dec. 23; v. 269; p. 558.
- Palosky, Frederick C., and S. Zimmermann, Pontiac, Mich. Shade and curtain hanger. No. 1,323,546; Dec. 2; v. 269; p. 61.
- Pan Motor Company. (See House, Bryan E., assignor.)
- Panagabko, Michael, Benito, Manitoba, Canada. Envelop-sealer. No. 1,290,649; Jan. 7; v. 258; p. 154.
- Pandolfo, Samuel C., St. Cloud, Minn. Combined tank and tool-chest for automobiles. No. 1,298,383; Mar. 25; v. 260; p. 652.
- Pandolfo, Samuel C., St. Cloud, Minn. Automobile-seat construction. No. 1,324,616; Dec. 9; v. 269; p. 309.
- Pangborn, Leo D., Eau Claire, Wis. Skee-skoot. No. 1,313,502; Aug. 19; v. 265; p. 362.
- Pann, August C., Ridgewood, N. Y., assignor, by mesne assignments, to Autosales Corporation. Vending-machine. No. 1,308,960; July 8; v. 264; p. 203.
- Panoulas, Panayiotis D., Jersey City, N. J. Automatic replenishing system for heater-reservoirs of oil-engines. No. 1,295,362; Feb. 25; v. 259; p. 643.
- Panoulas, Panayiotis D., Jersey City, N. J. Confection-coating machine. No. 1,304,362; May 20; v. 262; p. 418.
- Pantages, James P. (See Hughs and Pantages.)
- Panzner, John, Cuyahoga Falls, and J. Pekar, Akron, Ohio. Attachment for baby-carriages. No. 1,301,593; Apr. 22; v. 261; p. 735.
- Pape, Herman G., New York, N. Y., assignor, by mesne assignments, to Beaver Machine and Tool Co., Inc., Newark, N. J. Mechanical movement. No. 1,314,696; Sept. 2; v. 266; p. 42.
- Paper Products Machine Company. (See Howard, Charles H., assignor.)
- Paper Utilities Corporation. (See Hill, Harriet, assignor.)
- Paper Utilities Corporation. (See Hill, Herbert M., assignor.)
- Paper Working Machines Company, The. (See Huethel, Jacob, assignor.)
- Papineau, Franklin A., Webster, Mass., and W. F. Papineau, New York, N. Y. Seam-detector for fabrics or the like. No. 1,306,713; June 17; v. 263; p. 342.
- Papineau, William F. (See Papineau, Franklin A. and W. F.)
- Papish, Jacob. (See Mathers and Papish.)
- Papp, Endre, and P. Nagy, New York, N. Y. Auto wind-shield. No. 1,301,308; Apr. 22; v. 261; p. 682.
- Papp, Joseph, Revere, Mass. Self-playing musical siren-horn. No. 1,315,636; Sept. 9; v. 266; p. 221.
- Papp, Stephan, Dayton, Ohio. Direction-indicator. No. 1,324,977; Dec. 16; v. 269; p. 437.
- Pappas, Peter G., Macedonia, Tex. Bell-holder. No. 1,324,263; Dec. 9; v. 269; p. 240.
- Paquet, Joseph E., Montreal, Quebec, Canada. Water-proofing fabrics. No. 1,306,274; June 10; v. 263; p. 229.



## Alphabetical list of patentees—Continued.

- Paquin, Alonzo, Montreal, Quebec, Canada. Electromagnetic tube-testing device. No. 1,302,424; Apr. 29; v. 261; p. 926.
- Paquin, Joseph A., Manchester, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Welt-beating machine. No. 1,298,780; Apr. 1; v. 261; p. 39.
- Paradis, Lubin, Somerville, and H. B. McCoubrey, assignors to Sargent and Ham Company, Boston, Mass. Vehicle-body. No. 1,321,389; Nov. 11; v. 268; p. 259.
- Paraffine Companies, The. (See Baum, Isaac M., assignor.)
- Paragon Binder Corporation. (See Webster, Bradford, assignor.)
- Paragon Machine, Tool & Manufacturing Company, The. (See Peters, Frederick W., assignor.)
- Paragon Metal Cap Company. (See Brenzinger, Julius, assignor.)
- Paragon Metal Cap Company. (See Russell, Robert A., assignor.)
- Paramount Hosiery Form Drying Co. (See Gerritson, Jacob, assignor.)
- Paramount Knitting Company. (See La Montagne Patrick P., assignor.)
- Paramount Knitting Company. (See Randall, Edison E., assignor.)
- Paramount Knitting Company. (See Rieck and Bretall, assignors.)
- Paramount Rubber Company, The. (See Roberts, Fred T., assignor.)
- Parcel Post Scale Co. (See Strubler, Gordon L., assignor.)
- Pardee, M. Clifford, *et al.* (See Lamberson, George E., assignor.)
- Parelius, Martin W., Portland, Oreg. Collapsible table. No. 1,295,194; Feb. 25; v. 259; p. 605.
- Parent, Arthur H., Baltic, Conn. Spring-wheel. No. 1,302,840; May 6; v. 262; p. 69.
- Parent, Raymond C., Crawfordsville, Ind. Soldering-iron. No. 1,303,716; May 13; v. 262; p. 259.
- Parent, Regina L., Minneapolis, Minn. Child's garment. No. 1,317,214; Sept. 30; v. 266; p. 614.
- Parent, Rufus A., South Tacoma, Wash. Jar-holder. No. 1,301,309; Apr. 22; v. 261; p. 682.
- Parent, Rufus A., Tacoma, Wash. Adjustable measuring-scoop. No. 1,324,264; Dec. 9; v. 269; p. 240.
- Parenti Motors Corporation. (See Berglof, Knut, assignor.)
- Parham, Richard, Depew, Okla. Cotton-chopper. No. 1,322,133; Nov. 18; v. 268; p. 448.
- Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Apparatus for assembling boxes in rows. No. 1,300,761; Apr. 15; v. 261; p. 530.
- Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for filling boxes. No. 1,300,762; Apr. 15; v. 261; p. 531.
- Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for filling boxes. No. 1,300,763; Apr. 15; v. 261; p. 531.
- Paridon, Michael, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Method of and means for assembling matches. No. 1,305,561; June 3; v. 263; p. 63.
- Paris, Arthur E. C., Puteaux, France. Automatic tractor-brake. No. 1,315,570; Sept. 9; v. 266; p. 210.
- Paris, Arthur E. C., Puteaux, France. Automatic trailer-brake. No. 1,315,571; Sept. 9; v. 266; p. 210.
- Paris, Arthur E. C., Puteaux, France. Automatic trailer-brake. No. 1,315,572; Sept. 9; v. 266; p. 210.
- Paris, Arthur E. C., Puteaux, assignor to Schneider & Cie., Paris, France. Automatic brake for motor-car tractors and hind carriages of ordnance. No. 1,318,298; Oct. 7; v. 267; p. 122.
- Paris, Auguste J., Jr., Bradford, Pa. Separating aqueous and other vapors from air and gases. No. 1,320,167; Oct. 28; v. 267; p. 586.
- Paris, Auguste J., Jr., Bradford, Pa. Producing low temperatures. No. 1,320,168; Oct. 28; v. 267; p. 586.
- Paris, Nicholas U., Lancaster, Pa. Water-heater and radiator. No. 1,301,312; Apr. 22; v. 261; p. 683.
- Parish, Frank J., assignor to Grinden Art Metal Company, Brooklyn, N. Y. Metal barrel. No. 1,326,087; Dec. 23; v. 269; p. 661.
- Parish, James C., Vanlue, Ohio. Railway-crossing gate. No. 1,294,152; Feb. 11; v. 259; p. 305.
- Parish, Le Grand, New York, N. Y. Circulation and feed device for locomotives. No. 1,303,953; May 20; v. 262; p. 341.
- Parish, Le Grand, New York, N. Y. Locomotive-fire-box construction. No. 1,308,102; July 1; v. 264; p. 18.
- Parisian Novelty Company. (See Komorous, Joseph, assignor.)
- Parissi, Anthony J., Cohoes, N. Y. Circuit-closer for alarm-circuits. No. 1,292,030; Jan. 21; v. 258; p. 538.
- Park, Albert V. (See Tate and Park.)
- Park, Charles F., Taunton, Mass. Internal-combustion-engine apparatus. No. 1,303,954; May 20; v. 262; p. 341.
- Park, James D., Duluth, Minn., assignor of one-half to A. H. Ackerman, Cleveland, Ohio. Non-glare projecting-headlight. No. 1,295,582; Feb. 25; v. 259; p. 695.
- Park, Jefferson D., Tishomingo, Okla., assignor to Mrs. E. E. Brown, Clarksville, Tex. Quilting apparatus. No. 1,326,776; Dec. 30; v. 269; p. 827.
- Park, Nicholas W., Brooklyn, N. Y., assignor to General Fire Extinguisher Company, Providence, R. I. Valve for gas-heating systems. No. 1,302,841; May 6; v. 262; p. 69.
- Park, Richard P., South Melbourne, Victoria, Australia. Machine for separating minerals from ore-bearing materials. No. 1,319,790; Oct. 28; v. 267; p. 516.
- Park, William N., Corning, N. Y. Fastener for demountable rims. No. 1,294,529; Feb. 18; v. 259; p. 429.
- Parke Davis & Company. (See Wildman, Ernest A., assignor.)
- Parke, Howard F., Kansas City, Mo. Steam-locomotive spark-arrester. No. 1,318,009; Oct. 7; v. 267; p. 66.
- Parker, Alexander, Etna Mills, Calif. Conservation of water. No. 1,320,907; Nov. 4; v. 268; p. 103.
- Parker, Alfred E., C. S. Davy, London, and D. G. Melkeld, Lee, England, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Ash-door. No. 1,299,587; Apr. 8; v. 261; p. 249.
- Parker, Alice H., Morristown, N. J. Heating-furnace. No. 1,325,905; Dec. 23; v. 269; p. 627.
- Parker, Alonzo T., Richmond, Ind. Hog-ringer. No. 1,306,714; June 17; v. 263; p. 342.
- Parker Appliance Company, The. (See Parker, Arthur L., assignor.)
- Parker, Archie T. (See Stubblefield, James L., assignor.)
- Parker, Arthur. (See Parker, Fred and A.)
- Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Pressure-fluid system. No. 1,315,683; Sept. 9; v. 266; p. 229.
- Parker, Charles A. (See Williams and Parker.)
- Parker, Charles C. (See Duffee, Cummings, and Parker.)
- Parker, Charles L., Newark, N. J. Safety-catch for pins, brooches, and the like. No. 1,313,010; Aug. 12; v. 265; p. 252.
- Parker, Charles W. (See Morris, Charles E., assignor.)
- Parker, Charles W., Omaha, Nebr. Bearing for electric motors and generators. No. 1,317,818; Oct. 7; v. 267; p. 30.
- Parker, Christine R. (See Parker, George H., assignor.)
- Parker, Clarence L., *et al.* (See Bassett, Harry P., assignor.)
- Parker, Clark W., Highland Park, Mich. Wire wheel. No. 1,298,087; Mar. 25; v. 260; p. 590.
- Parker, Clark W., New York, N. Y. Brake mechanism. No. 1,315,236; Sept. 9; v. 266; p. 149.
- Parker, Clark W., New York, N. Y. Tractor-wheel. No. 1,316,057; Sept. 16; v. 266; p. 313.
- Parker, Clyde F. (See Bettenga, Creno P., assignor.)
- Parker, Daniel W., Everett, Wash. Stone-saw. No. 1,293,897; Feb. 11; v. 259; p. 245.
- Parker, Donald, Tampa, Fla. Box-press. No. 1,293,181; Feb. 4; v. 259; p. 48.
- Parker, Douglas P., Shreveport, La. Kerosene-burning device. No. 1,316,736; Sept. 23; v. 266; p. 490.
- Parker, Earle D., assignor to Barber-Colman Company, Rockford, Ill. Knotter. (Reissue.) No. 14,767; Dec. 9; v. 269; p. 339.
- Parker, Eldridge P., Birmingham, Ala. Change-making apparatus. No. 1,302,961; May 6; v. 262; p. 92.
- Parker, Eri W., Malden, Mass. Safety locking device. No. 1,310,577; July 22; v. 264; p. 569.
- Parker, Ernest V., Tacoma, Wash. Valve-operating for internal-combustion engines. No. 1,317,310; Sept. 30; v. 266; p. 632.
- Parker, Fred and A., Wilmerding, Pa. Toy. No. 1,313,327; Aug. 19; v. 265; p. 329.
- Parker, George A., Brockton, Mass. Land-torpedo. No. 1,303,717; May 13; v. 262; p. 259.
- Parker, George A., assignor to Brunner Manufacturing Company, Utica, N. Y. Check-valve. No. 1,322,938; Nov. 25; v. 268; p. 651.
- Parker, George D., Riverside, Cal. Tray-stacker. No. 1,292,635; Jan. 28; v. 258; p. 706.
- Parker, George D., Riverside, Cal. Elevating and stacking apparatus for field-receptacles. No. 1,292,636; Jan. 28; v. 258; p. 706.
- Parker, George D., Riverside, Cal. Empty-box stacker. No. 1,293,182; Feb. 4; v. 259; p. 48.
- Parker, George D., Riverside, Cal. Receptacle-inverting apparatus. No. 1,295,195; Feb. 25; v. 259; p. 605.
- Parker, George D., Riverside, Cal. Fruit-drying apparatus. No. 1,296,845; Mar. 11; v. 260; p. 267.
- Parker, George D., Riverside, Calif. Drier. No. 1,297,722; Mar. 18; v. 260; p. 487.
- Parker, George D., Riverside, Calif. Conveyor for fruit-drying apparatus. No. 1,297,723; Mar. 18; v. 260; p. 487.
- Parker, George D., Riverside, Calif. Clutch mechanism. No. 1,307,695; June 24; v. 263; p. 554.
- Parker, George E. D. (See Abrams and Parker.)
- Parker, George H., assignor to C. R. Parker, Stamford, Conn. Game device. No. 1,291,105; Jan. 14; v. 258; p. 287.
- Parker, George W., Jr., assignor of one-half to C. G. Pfeiffer, Philadelphia, Pa. Portable conveyor. No. 1,321,123; Nov. 11; v. 268; p. 207.
- Parker, Harold, Hartford, Wis. Nut-lock. No. 1,308,505; July 1; v. 264; p. 90.



- Parker, Howard, Berlin, N. H., assignor to Brown Company, Portland, Me. Drying-machine. No. 1,322,813; Nov. 25; v. 268; p. 628.
- Parker, Humphrey F., Dunedin, New Zealand. Aeroplane and the like. No. 1,312,571; Aug. 12; v. 265; p. 166.
- Parker, John, Cranston, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Indexing-center. No. 1,295,363; Feb. 25; v. 259; p. 643.
- Parker, John, Cranston, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Feeding mechanism. No. 1,295,583; Feb. 25; v. 259; p. 695.
- Parker, John C., Ann Arbor, Mich., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current-distributing system. No. 1,314,895; Sept. 2; v. 266; p. 78.
- Parker, John E., and D. B. Winter, assignors to Crouse-Hinds Company, Syracuse, N. Y. Means for attaching electrical appliances to conduit outlet-boxes. No. 1,310,578; July 22; v. 264; p. 570.
- Parker, John W. (See Humason, Granville A., assignor.)
- Parker, Joseph F., Gardner, Mass. Automobile-license-fastening device. No. 1,310,769; July 22; v. 264; p. 605.
- Parker, Judson E., Gardiner, Me. Self-basting pan. No. 1,292,031; Jan. 21; v. 258; p. 538.
- Parker, Lee H., assignor to Spray Engineering Company, Boston, Mass. Effecting humidification. No. 1,307,875; June 24; v. 263; p. 587.
- Parker, Lee H., Boston, Mass., assignor to Spray Engineering Company. Spray-nozzle. No. 1,309,596; July 8; v. 264; p. 322.
- Parker, Lee H., Boston, Mass., assignor to Spray Engineering Company. Spray-nozzle. No. 1,309,597; July 8; v. 264; p. 322.
- Parker, Lee H., assignor to Spray Engineering Company, Boston, Mass. Distributing liquid. No. 1,311,840; July 29; v. 264; p. 836.
- Parker, Lee H., assignor to Spray Engineering Company, Boston, Mass. Distributing liquid. No. 1,311,841; July 29; v. 264; p. 837.
- Parker, Luke W., assignor of one-half to M. L. Landrum, Mountain View, Mo. Check-protector. No. 1,310,370; July 15; v. 264; p. 500.
- Parker, Martin, Tyndall, assignor of one-half to L. H. Wolvin, Winnipeg, Manitoba, Canada. Safety-hitch. No. 1,292,032; Jan. 21; v. 258; p. 538.
- Parker, Merton, Glendale, Calif. Collar-clip. No. 1,325,411; Dec. 16; v. 269; p. 518.
- Parker, Newell D., assignor to Standard Scientific Company, New York, N. Y. Supporting-clamp for various objects. No. 1,311,089; July 22; v. 264; p. 664.
- Parker, Orrel A., Cleveland, Ohio. Vehicle-wheel. No. 1,294,825; Feb. 18; v. 259; p. 498.
- Parker, Ralzemond D., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Secret-signaling system. No. 1,312,572; Aug. 12; v. 265; p. 166.
- Parker, Ralzemond D., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Ciphering and deciphering mechanism. No. 1,320,908; Nov. 4; v. 268; p. 104.
- Parker, Raymond G. (See Edmunds, Thomas V., assignor.)
- Parker, Riley H. (See Tzibides and Parker.)
- Parker, Riley H., Winthrop, assignor to Gillette Safety Razor Company, Boston, Mass. Screw-thread gage. No. 1,307,451; June 24; v. 263; p. 510.
- Parker, Roy T., Buffalo, N. Y. Spring-clamp. No. 1,312,746; Aug. 12; v. 265; p. 199.
- Parker Rust Proof Company of America. (See Allen, William H., assignor.)
- Parker Rust-Proof Company of America. (See Colquhoun, Roy D., assignor.)
- Parker, Thomas T., Brooklyn, N. Y. Steam-boiler. No. 1,294,826; Feb. 18; v. 259; p. 498.
- Parker, Thomas T., Brooklyn, N. Y. Steam-boiler. No. 1,303,718; May 13; v. 262; p. 259.
- Parker, William E. (See Hadfield, Jack, Milne, and Parker.)
- Parker, William H., and J. M. Thompson, Washington, D. C.; said Thompson assignor to said Parker. Cigarette holder and shield. No. 1,293,529; Feb. 4; v. 259; p. 129.
- Parker, William S., Auburn, Me. Chair. No. 1,293,530; Feb. 4; v. 259; p. 129.
- Parkes, Bertrand A., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,301,594; Apr. 22; v. 261; p. 735.
- Parkes, Samuel R., Willenhall, England. Wire-strainer or turnbuckle. No. 1,302,425; Apr. 29; v. 261; p. 926.
- Parkes, William N., assignor to L. S. E. Co., Inc., Brooklyn, N. Y. Embroidery-machine. No. 1,305,927; June 3; v. 263; p. 132.
- Parkhill, James, Niagara Falls, N. Y. Belt-support. No. 1,321,843; Nov. 18; v. 268; p. 395.
- Parkhurst, Charles W., Johnstown, and F. J. Burd, Wilkesburg, Pa., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for motor-driven machines. No. 1,301,966; Apr. 29; v. 261; p. 839.
- Parkhurst, Frederic A., assignor to The Aluminum Castings Company, Cleveland, Ohio. Metal-mold. No. 1,296,596; Mar. 4; v. 260; p. 174.
- Parkhurst, Frederic A., assignor to The Aluminum Castings Company, Cleveland, Ohio. Mold and casting. No. 1,296,597; Mar. 4; v. 260; p. 175.
- Parkhurst, Frederic A., assignor to The Aluminum Castings Company, Cleveland, Ohio. Mold and method of casting. No. 1,308,103; July 1; v. 264; p. 18.
- Parkin, John W. (See Woolever, Burton E., assignor.)
- Parkinson, David T., Wichita, Kans. Apparatus for the manufacture of dental crowns. No. 1,304,087; May 20; v. 262; p. 365.
- Parkinson, David T., Wichita, Kans. Shaping-pliers. No. 1,317,385; Sept. 30; v. 266; p. 647.
- Parkinson, Thomas H., Twisp, Wash. Motor-driven sleigh. No. 1,314,896; Sept. 2; v. 266; p. 78.
- Parkinson, William J., W. A. M. Welles, and P. W. Tierney, assignors to Eastman Kodak Company, Rochester, N. Y. Film-winding device. No. 1,308,991; July 8; v. 264; p. 209.
- Parkman, George W., Sunnyvale, Calif. Culinary utensil. No. 1,311,178; July 29; v. 264; p. 714.
- Parks, Dennis, St. Louis, Mo. Machine for cutting blanks from leather. No. 1,297,899; Mar. 18; v. 260; p. 525.
- Parks, Edward F., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Winding-machine. No. 1,326,088; Dec. 23; v. 269; p. 661.
- Parks, Frederick J., New York, N. Y. Manufacture of envelopes. No. 1,316,737; Sept. 23; v. 266; p. 490.
- Parks, George H., Glens Falls, assignor to International Paper Company, New York, N. Y. Surfacing paper. No. 1,291,626; Jan. 14; v. 258; p. 407.
- Parks, John R., Franklinville, N. C. Centering-tool. No. 1,309,654; July 15; v. 264; p. 370.
- Parks, Norman E. (See Gray and Parks.)
- Parks, Samuel, Las Cruces, N. Mex. Aerial photography. No. 1,301,967; Apr. 29; v. 261; p. 839.
- Parks, William, assignor of one-half to A. L. Young, Frazeysburg, Ohio. Strainer. No. 1,314,829; Sept. 2; v. 266; p. 66.
- Parkview Sales Co. (See Kedzierski and Hatashita, assignors.)
- Parlin & Orendorff Company. (See Graham, William S., assignor.)
- Parmenter, Frank D., Toronto, Ontario, Canada. Attaching means for electric fixtures. No. 1,299,857; Apr. 8; v. 261; p. 311.
- Parmenter, Joseph J., Chicago, Ill. Shoe-protector. No. 1,304,593; May 27; v. 262; p. 500.
- Parmenter, William W., Redford, Mich. Power-frame. (Reissue.) No. 14,609; Mar. 11; v. 260; p. 371.
- Parmlay, Walter C., Upper Montclair, N. J. Concrete-block construction. No. 1,293,898; Feb. 11; v. 259; p. 245.
- Parnall, Thomas S. B., Smethwick, near Birmingham, and F. G. Mitchell, Hyde Park, London, England. Transporter weighing-crane. No. 1,310,540; July 22; v. 264; p. 562.
- Parnham, John B. (See Burdick, Charles L., assignor.)
- Paroli, Angelo, assignor of one-half to O. Tardella, Chicago, Ill. Resilient wheel. No. 1,291,627; Jan. 14; v. 258; p. 408.
- Paroubek, Anton J., assignor to American Metal Seal Company, Beacon, N. Y. Metal seal and fastener. No. 1,301,310; Apr. 22; v. 261; p. 682.
- Parr, Frank E., Buffalo, N. Y. Saw-vice. No. 1,313,728; Aug. 19; v. 265; p. 404.
- Parr, George T., St. Paul, Minn. Collapsible fan-trellis. No. 1,311,136; July 22; v. 264; p. 693.
- Parret, Milton L., Marshalltown, Iowa. Oil-adhesion transmission device. No. 1,302,701; May 6; v. 262; p. 42.
- Parret, Milton L., Marshalltown, Iowa. Aperture-plate and film guide and tension device. No. 1,305,971; June 3; v. 263; p. 141.
- Parret, Milton L., Marshalltown, Iowa. Moving-picture-projecting machine. No. 1,314,604; Sept. 2; v. 266; p. 24.
- Parriott, Charles H. (See Smith and Parriott.)
- Parrish, Benjamin E., and S. Stage, Mineral Wells, Tex. Bit-hoist. No. 1,294,153; Feb. 11; v. 259; p. 306.
- Parrish, Hale W., Chicago, Ill., assignor of one-half to H. M. Beck, Sturges, Mich. Engine. No. 1,319,679; Oct. 21; v. 267; p. 472.
- Parrish, Herbert L., Oklahoma, Okla. Motor-vehicle drive. No. 1,305,928; June 3; v. 263; p. 132.
- Parrish, Waller C., Kansas City, Mo. Propelling means. No. 1,311,415; July 29; v. 264; p. 758.
- Parrott, Bert R. (See Goodhart and Parrott.)
- Parry, Ernest H. (See James, Parry, and Wilson.)
- Parslow, George L., Oakland, Calif. Gate. No. 1,304,199; May 20; v. 262; p. 385.
- Parsons, Charles A. (See Aldis, Arthur J., assignor.)
- Parsons, Charles A., Newcastle-upon-Tyne, England. Geared-turbine installation for ship propulsion. No. 1,302,962; May 6; v. 262; p. 92.
- Parsons, Charles A., Wallsend, England. Lubrication of sliding couplings. No. 1,303,586; May 13; v. 262; p. 235.
- Parsons, Charles A., E. Bennett, and H. Rowe, Newcastle-upon-Tyne, England; said Bennett and said Rowe assignors to said Parsons. Mounting of reflectors. No. 1,309,542; July 8; v. 264; p. 312.



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- Parson, Charles A., S. S. Cook, and R. J. Walker, Wallsend, England; said Cook and said Walker assignors to said Parsons. Marine-turbine installation. No. 1,296,210; Mar. 4; v. 260; p. 91.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Wallsend, England; said Cook and said Douglas assignors to said Parsons. Lubrication of thrust-bearings. No. 1,296,211; Mar. 4; v. 260; p. 91.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared turbine installation. No. 1,322,814; Nov. 25; v. 268; p. 628.
- Parsons, Charles A., S. S. Cook, and E. B. Chapman, Newcastle-upon-Tyne, England; said Cook and said Chapman assignors to said Parsons. Gear-train. No. 1,302,963; May 6; v. 262; p. 92.
- Parsons, Charles A., Newcastle-upon-Tyne, R. J. Walker, S. S. Cook, and R. A. Simon, Wallsend, England; said Walker, Cook, and Simon assignors to said Parsons. Turbine installation for ship propulsion. No. 1,303,585; May 13; v. 262; p. 234.
- Parsons, Charles A., Newcastle-upon-Tyne, R. J. Walker, S. S. Cook, and L. M. Douglas, Wallsend, England; said Walker, said Cook, and said Douglas assignors to said Parsons. Turbine installation for ship propulsion. No. 1,309,077; July 8; v. 264; p. 226.
- Parsons, Charles L. (See Jones and Parsons.)
- Parsons, Edward T., Newark, N. J. Flour-sifting apparatus. No. 1,313,729; Aug. 19; v. 265; p. 404.
- Parsons, Fred A., Milwaukee, assignor to The Kempsmith Manufacturing Co., West Allis, Wis. Lubricating system for milling-machines. No. 1,296,692; Mar. 11; v. 260; p. 233.
- Parsons, Fred A., Milwaukee, assignor to The Kempsmith Manufacturing Co., West Allis, Wis. Milling-machine. No. 1,307,749; June 24; v. 263; p. 564.
- Parsons, Fred A., Milwaukee, assignor to The Kempsmith Manufacturing Co., West Allis, Wis. Transmission and control mechanism for machine-tools. No. 1,322,939; Nov. 25; v. 268; p. 652.
- Parsons, George C., Newark, N. J. Expansion-bolt. No. 1,316,640; Sept. 23; v. 266; p. 471.
- Parsons, George K., Detroit, Mich. Automobile-starter. No. 1,297,003; Mar. 11; v. 260; p. 305.
- Parsons, George K., Detroit, Mich. Alternating rotary drive for washing-machines. No. 1,308,104; July 1; Parsons, Harold K. (See Baker and Parsons.)
- Parsons, Harold K., Southbridge, Mass. Ophthalmic mounting. No. 1,290,330; Jan. 7; v. 258; p. 77.
- Parsons, Harold K., Southbridge, Mass. Ophthalmic mounting. No. 1,297,232; Mar. 11; v. 260; p. 354.
- Parsons, Harold K., Southbridge, Mass. Eye-protector. No. 1,308,366; July 1; v. 264; p. 65.
- Parsons, Herman C., Monument, Oreg. Thermometer-case. No. 1,302,082; Apr. 29; v. 261; p. 860.
- Parsons, John H., assignor of one-half to W. H. Savery, Wilmington, Del. Apparatus for impregnating wood. No. 1,319,581; Oct. 21; v. 267; p. 443.
- Parsons, Robert J., Fort Wayne, Ind., assignor to General Electric Company. Resistance unit. No. 1,315,791; Sept. 9; v. 266; p. 249.
- Parsons, Stuart W., and P. F. King, assignors to The Stanley Works, New Britain, Conn. Butt. No. 1,311,243; July 29; v. 264; p. 725.
- Parsons, Warren J., Huntington, W. Va. Chair. No. 1,314,830; Sept. 2; v. 266; p. 67.
- Parsons, William. (See Cooper, James D., assignor.)
- Parsons, William S., Grove Park, assignor to J. Stone & Company Limited, Deptford, England. System and apparatus for the disposal of sewage and other refuse from steamships and other vessels. No. 1,291,628; Jan. 14; v. 258; p. 408.
- Parsy, Paul V., Paris, France. Crucible-furnace for melting metals. No. 1,308,190; July 1; v. 264; p. 34; v. 264; p. 18.
- Partain, Joseph, Williams, Calif. Pump. No. 1,326,777; Dec. 30; v. 269; p. 828.
- Partain, Lucius L., Sparks, Ga. Automobile dirigible headlight. No. 1,314,537; Sept. 2; v. 266; p. 11.
- Partington, James R., Lostock Grlam, and George J. Jones, London, England. Manufacture of ammonium nitrate. No. 1,306,924; June 17; v. 263; p. 381.
- Partlow, Andrew E., Johnson, Vt. Chain-repairing pliers. No. 1,290,331; Jan. 7; v. 258; p. 77.
- Parton, William H., Lincoln, Nebr. Wood tank. No. 1,306,616; June 10; v. 263; p. 291.
- Partridge, Harry A. (See Bungardner, George L., assignor.)
- Partridge, Hugh, assignor to C. Shad and M. G. Williams, Jacksonville, Fla. Sprinkler. No. 1,322,466; Nov. 18; v. 268; p. 512.
- Pascal, Israel, assignor of thirty-one eightieths to D. Gordon and one-fourth to J. Schwartz, Montreal, Quebec, Canada. Car-fender. No. 1,302,586; May 6; v. 262; p. 19.
- Pascal, John L., Pocahontas, Iowa. Road-drag. No. 1,290,332; Jan. 7; v. 258; p. 77.
- Paschall, Armand L., assignor to The Bauer Bros. Company, Springfield, Ohio. Grinding-mill. No. 1,310,031; July 15; v. 264; p. 438.
- Paschall, James H., assignor to Paschall Tool Company, Long Beach, Calif. Milling attachment for lathes. No. 1,318,688; Oct. 14; v. 267; p. 257.
- Paschall Tool Company. (See Neff, Abner R., assignor.)
- Paschall Tool Company. (See Paschall, James H., assignor.)
- Paschke, Otto H., Yakima, Wash., assignor to Automatic Truck Brake Co. Safety truck-brake. No. 1,301,311; Apr. 22; v. 261; p. 682.
- Pascucci, Emilio. (See Churchill and Pascucci.)
- Pasman, Abram N., Waterbury, Conn. Flush-valve. No. 1,300,001; Apr. 8; v. 261; p. 341.
- Pasman, Abram N., Waterbury, Conn. Flush-valve. No. 1,300,865; Apr. 15; v. 261; p. 552.
- Pasman, Abram N., assignor to The American Pin Company, Waterbury, Conn. Ball-cock. No. 1,295,789; Feb. 25; v. 259; p. 742.
- Pass & Seymour. (See Morey, Harry J., assignor.)
- Pass & Seymour. (See Morey and Thompson, assignors.)
- Pass & Seymour. (See Thompson, Don N., assignor.)
- Pass, Wendelin, Export, Pa. Saddler's implement. No. 1,313,556; Aug. 19; v. 265; p. 372.
- Passage, Mary C., et al. (See Babbitt, William A., assignor.)
- Passaic Metal Ware Company. (See Anderson, Ernest D., assignor.)
- Passaic Metal Ware Company. (See Du Bois, Marcy J., assignor.)
- Passano, Leonard, Baltimore, Md., assignor, by mesne assignments, to The Cities Illuminating Company, New York, N. Y. Pilot-burner. No. 1,321,547; Nov. 11; v. 268; p. 288.
- Passet, Stéphane F. M., Boulogne-sur-Seine, France. Projectile, shell, and the like. No. 1,310,132; July 15; v. 264; p. 457.
- Passmore, William, Pontiac, Mich. Curtain-fixture. No. 1,294,698; Feb. 18; v. 259; p. 468.
- Pasternak, John, New York, N. Y. Toy balloon. No. 1,300,640; Apr. 15; v. 261; p. 504.
- Pastore, Vincent, New London, Conn. Guard for brushes. No. 1,297,233; Mar. 11; v. 260; p. 354.
- Pataye, Frank, Gardenville, N. Y. Snow-gatherer. No. 1,300,764; Apr. 15; v. 261; p. 531.
- Patch, Calvin B., Glenellyn, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear having removable friction-shells. No. 1,300,480; Apr. 15; v. 261; p. 471.
- Patch, Harry M., Seattle, Wash. Headlight-reflector. No. 1,292,637; Jan. 28; v. 258; p. 706.
- Patee, Fred, Chicago, Ill. Shock-absorber. No. 1,305,004; May 27; v. 262; p. 577.
- Patent Button Company, The. (See White, Franklin R., assignor.)
- Patent Rapid Scaffold Tie Company, The. (See Palmer-Jones, Daniel, assignor.)
- Pater, Paul G., assignor to The Long & Allstatler Company, Hamilton, Ohio. Floating punch. No. 1,298,088; Mar. 25; v. 260; p. 590.
- Paterson, Alexander P., et al. (See Secord, Frederick A., assignor.)
- Paterson, John T. H., Chicago, Ill. Bag-mouthpiece. No. 1,320,646; Nov. 4; v. 268; p. 53.
- Paterson, Morton L., Wilmette, Ill., assignor to Converse Rubber Shoe Company, Shoe. No. 1,298,089; Mar. 25; v. 260; p. 590.
- Pathe Freres Phonograph Company. (See Capps, Frank L., assignor.)
- Pathe Freres Phonograph Company. (See Labrelly, Emile, assignor.)
- Pathe Freres Phonograph Company. (See Lewis, Frank D., assignor.)
- Patin, Thaddeus, Whittier, Calif. Roller-bit. No. 1,305,488; June 3; v. 263; p. 48.
- Patin, Thaddeus, Whittier, Calif. Roller-bit. No. 1,305,489; June 3; v. 263; p. 49.
- Patitz, Johann F. M., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Steam-turbine. No. 1,311,615; July 29; v. 264; p. 795.
- Paton, Francis A., and H. L. Koenig, assignors of nine-tenths to F. I. Johnson, Fitchburg, Mass. Machine for making steel-wool. No. 1,300,002; Apr. 8; v. 261; p. 341.
- Patrick, Charles E., Colorado Springs, Colo., assignor of one-half to A. A. and T. P. Craig. Tating-shuttle. No. 1,297,234; Mar. 11; v. 260; p. 354.
- Patrick, Daniel, Paterson, N. J. Weaving. No. 1,295,196; Feb. 25; v. 259; p. 605.
- Patrick, Duncan M., Johannesburg, Transvaal, South Africa. Anticreeping device for railway-tracks. No. 1,309,957; July 15; v. 264; p. 426.
- Patrick, Henry W., Mansfield, Ohio. Shower-bathing apparatus. No. 1,318,172; Oct. 7; v. 267; p. 98.
- Patrick, Henry W., assignor of one-fourth to E. F. Cleland and one-fourth to F. A. Cleland, Mansfield, Ohio. Combined gaseous-fuel and water-vapor burning heating apparatus. No. 1,312,080; Aug. 5; v. 265; p. 43.
- Patrick, Robert B., Jamaica, N. Y. Method and system for building boats. No. 1,307,144; June 17; v. 263; p. 421.
- Patrick, Walter A., Baltimore, Md. Silica gel and making same. No. 1,297,724; Mar. 18; v. 260; p. 488.
- Patrick, William E., Jr. (See Boston and Patrick.)



- Patridis, William G., Pittsburgh, Pa. Measuring device. No. 1,293,531; Feb. 4; v. 259; p. 129.
- Patronell, John, Orange, Tex. Safety-can. No. 1,315,033; Sept. 2; v. 266; p. 103.
- Patronell, John, Orange, Tex. Bottle-stopper. No. 1,316,322; Sept. 16; v. 266; p. 362.
- Patscheider, Walter A., assignor to Thomson Electric Welding Company, Lynn, Mass. Electric seam-welding device. No. 1,304,594; May 27; v. 262; p. 501.
- Pattay, Marc Antoine, and E. Jaquemot, Geneva, Switzerland. Magneto-electric pocket-lamp. No. 1,301,595; Apr. 22; v. 261; p. 735.
- Patten, Francis H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Cut-out. No. 1,311,459; July 29; v. 264; p. 766.
- Patten, Francis H., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Cut-out. No. 1,311,460; July 29; v. 264; p. 766.
- Patten, John, Baltimore, assignor to one-half to S. M. Shoemaker, Eccleston, Md. Apparatus for and method of concentrating sulfuric acid. No. 1,294,827; Feb. 18; v. 259; p. 499.
- Patten, Lloyd, Manhattan, Kans. Telephone-fixture. No. 1,319,896; Oct. 28; v. 267; p. 536.
- Patterson-Allen Engineering Company. (See Haynes, George P., assignor.)
- Patterson, Benjamin G., Oklahoma, Okla. Spraying-nozzle. No. 1,307,514; June 24; v. 263; p. 522.
- Patterson, Charles H., assignor to The Patterson Colt and Calf Weaner Co., Incorporated, Trinidad, Colo. Weaner. No. 1,303,587; May 13; v. 262; p. 235.
- Patterson Colt and Calf Weaner Co. (See Patterson, Charles H., assignor.)
- Patterson, Duncan W., Philadelphia, Pa., assignor to Foamite Firefoam Company, New York, N. Y. Fire-extinguisher. No. 1,306,617; June 10; v. 263; p. 292.
- Patterson, Frank J., Waverly, Iowa. Automatic hog-feeder. No. 1,305,832; June 3; v. 263; p. 114.
- Patterson, George F., Edgerton, Minn. Rake-cleaner. No. 1,310,541; July 22; v. 264; p. 563.
- Patterson, Gilbert, Duluth, Minn. Collapsible lantern. No. 1,304,088; May 20; v. 262; p. 365.
- Patterson, Helen A. (See Patterson, John B., assignor.)
- Patterson, I. W., et al. (See Key, Emmett M., assignor.)
- Patterson, John, Stearns, Mont. Earmark for stock. No. 1,318,909; Oct. 14; v. 267; p. 300.
- Patterson, John B., assignor to one-half to H. A. Patterson, Pringhar, Iowa. Fire-escape. No. 1,301,734; Apr. 22; v. 261; p. 763.
- Patterson, John C., Philadelphia, Pa. Placer-mining. No. 1,325,263; Dec. 16; v. 269; p. 491.
- Patterson, John E., Poughkeepsie, N. Y. Identifying means for night-latch keys. No. 1,322,815; Nov. 25; v. 268; p. 629.
- Patterson, John L., Roanoke Rapids, and L. S. Cannon, Rosemary, N. C. Jacquard. No. 1,299,771; Apr. 8; v. 261; p. 292.
- Patterson, Lane S. (See Carper and Patterson.)
- Patterson, Ralph J., Berlin, N. H. Electric humidifier. No. 1,313,832; Aug. 19; v. 265; p. 424.
- Patterson, William H., New Orleans, La., assignor to American Sheet Metal Works. Roof-clip. No. 1,292,509; Jan. 28; v. 258; p. 674.
- Patterson, William H., New Orleans, La. Fireproof door or shutter. No. 1,307,876; June 24; v. 263; p. 587.
- Patterson, William J., and R. M. Bickley, assignors to Heyl & Patterson, Inc., Pittsburgh, Pa. Coal-cleaning apparatus. No. 1,312,867; Aug. 12; v. 265; p. 222.
- Patterson, William M., Greenville, S. C. Repair device for loom-sword bearings. No. 1,324,516; Dec. 9; v. 269; p. 290.
- Pattie Thomas, Ponsonby, Auckland, New Zealand. String-cutter. No. 1,311,616; July 29; v. 264; p. 795.
- Pattison, Abraham C., Cumberland, Wis. Kitchen utensil. No. 1,290,333; Jan. 7; v. 258; p. 77.
- Pattison, Roscoe C., assignor to one-half to W. A. Everitt, Rochester, N. Y. Apparatus for use in making cores or the like. No. 1,305,687; June 3; v. 263; p. 83.
- Patton, Charles A., Pendleton, Oreg. Rail-joint. No. 1,297,235; Mar. 11; v. 260; p. 354.
- Patton, Grover C., and J. H. Sneyry, Delphos, Ohio. Metal bow for vehicle-tops. No. 1,322,940; Nov. 25; v. 268; p. 652.
- Patton, Hal T. (See Fulton, Giesler, and Patton.)
- Patton, John G., Philadelphia, Pa. Advertising device for finger-bowls. No. 1,301,596; Apr. 22; v. 261; p. 735.
- Patton, Moses F., Tuscaloosa, Ala., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Quick-detachable dust-cap for tire-valves. No. 1,297,725; Mar. 18; v. 260; p. 488.
- Patton, Sarah S., Acworth, Ga. Biscuit-cutter. No. 1,297,900; Mar. 18; v. 260; p. 525.
- Patton, William D., Vancouver, British Columbia, Canada. Artificial trolling-bait. No. 1,317,890; Oct. 7; v. 267; p. 44.
- Patus, Alexander, assignor to one-half to H. H. Mandel, South Bend, Ind. Respirator. No. 1,312,200; Aug. 5; v. 265; p. 65.
- Patuzzo, Leandro. (See Galardi and Patuzzo.)
- Patz, Wasyli. (See Pazaychuk and Patz.)
- Paul, Andrew, Watertown, Tenn. Hand corn and bean planter. No. 1,295,057; Feb. 18; v. 259; p. 550.
- Paul, Andrew G., Boston, Mass. Heating system. No. 1,299,603; Apr. 8; v. 261; p. 252.
- Paul, Benjamin E., Tacoma, Wash. Bunk. No. 1,291,629; Jan. 14; v. 258; p. 408.
- Paul, Charles O., and E. Elsey, Seattle, Wash. Automobile-headlight. No. 1,290,650; Jan. 7; v. 258; p. 154.
- Paul Lechler, Firm of. (See Kreuzhage, Paul, assignor.)
- Paul, Lola V., administratrix. (See Paul and Holstein.)
- Paul, Mickle H., Elkton, Md. Door-support. No. 1,307,877; June 24; v. 263; p. 587.
- Paul, Ralph H., Brisbane, Queensland, Australia. Score computer and indicator. No. 1,314,897; Sept. 2; v. 266; p. 78.
- Paul, Thomas F. R., Ituna, Saskatchewan, Canada. Wire-stretcher. No. 1,294,699; Feb. 18; v. 259; p. 468.
- Paul, Wesley A., assignor to Deere & Company, Moline, Ill. Cultivator. No. 1,318,582; Oct. 14; v. 267; p. 237.
- Paul, Wesley A., deceased; L. V. Paul, administratrix, and J. V. Holstein, assignors to Deere and Company, Moline, Ill. Cultivator. No. 1,318,583; Oct. 14; v. 267; p. 238.
- Paul, William, Samson, Ala. Rail-joint lock. No. 1,306,022; June 10; v. 263; p. 179.
- Paul, William A. (See Carruthers, John E., assignor.)
- Paul, William L., San Francisco, Calif., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 1,315,149; Sept. 2; v. 266; p. 123.
- Paul, William L., San Francisco, Calif., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 1,315,150; Sept. 2; v. 266; p. 123.
- Paul, William L., San Francisco, Calif., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,315,151; Sept. 2; v. 266; p. 123.
- Paulauski, John, Cicero, Ill. Airship. No. 1,307,414; June 24; v. 263; p. 503.
- Paulauski, John, Cicero, Ill. Airship. No. 1,309,078; July 8; v. 264; p. 226.
- Paulero, Louis, assignor to American Electric Tool Company, Incorporated, Petersburg, Va. Calking-tool. No. 1,318,689; Oct. 14; v. 267; p. 258.
- Pauley, John W., et al. (See Egan and Jackson, assignors.)
- Paulin, Josua G., Stockholm, Sweden. Fluid-pressure indicator. No. 1,315,858; Sept. 9; v. 266; p. 262.
- Pauli, Wallace H. (See Macbeth and Pauli.)
- Paulsen, Magnus, Elverum, Norway. Timber-gage. No. 1,305,562; June 3; v. 263; p. 63.
- Paulsen, Peter, Schleswig, Iowa. Stock-waterer. No. 1,312,350; Aug. 5; v. 265; p. 92.
- Paulsen, Peter, Schleswig, Iowa. Stock-waterer. No. 1,326,778; Dec. 30; v. 269; p. 828.
- Paulsmeier, Albert C., Alameda, Calif., assignor to Byron Jackson Iron Works, West Berkeley, Calif. Deep-well-pump column. No. 1,301,597; Apr. 22; v. 261; p. 735.
- Paulson, Andrew J., et al. (See Dickerson, Arthur, assignor.)
- Paulson, Charles J. (See Simpson and Paulson.)
- Paulson, Ernest W., Otoe, Iowa. Corn-planter. No. 1,300,641; Apr. 15; v. 261; p. 505.
- Paulson, John A., Dover, N. J. Combined coat and shirt. No. 1,317,724; Oct. 7; v. 267; p. 12.
- Paulson, John B., Ridgefield Park, N. J. Building-block for hollow-wall constructions. No. 1,300,765; Apr. 15; v. 261; p. 532.
- Paulson, John E., Minneapolis, Minn. Convertible planting-machine with potato-cutter. No. 1,326,612; Dec. 30; v. 269; p. 796.
- Paulson, John E., Minneapolis, Minn. Potato cutter and planter. No. 1,326,613; Dec. 30; v. 269; p. 797.
- Paulson, Lester D., Clear Lake, Iowa. Bean-thresher. No. 1,309,910; July 15; v. 264; p. 417.
- Pauly, Albert A., Cleveland, Ohio. Molding apparatus. No. 1,320,705; Nov. 4; v. 268; p. 64.
- Pauly, Albert A., Cleveland, Ohio. Truck. No. 1,320,706; Nov. 4; v. 268; p. 64.
- Pauly, Albert A., Cleveland, Ohio. Molding apparatus. No. 1,320,707; Nov. 4; v. 268; p. 65.
- Pauly, Albert A., Cleveland, Ohio. Means for making floors, roofs, and the like. No. 1,324,517; Dec. 9; v. 269; p. 290.
- Pauly, John and H. Eichinger, Appleton, Wis. Rotary internal-combustion engine. No. 1,301,871; Apr. 29; v. 261; p. 820.
- Pavesi, Ugo, and G. Tolotti, Milan, Italy, assignors, by mesne assignments, to The P. T. Wheel Company, Dayton, Ohio. Tractor. No. 1,298,781; Apr. 1; v. 261; p. 39.
- Pavia, Nicola, and G. Casalis, Turin, Italy. Oscillating-piston engine. No. 1,318,228; Oct. 7; v. 267; p. 110.
- Pavon, Manuel R., Oakland, Calif. Coal-oil torch. No. 1,297,588; Mar. 18; v. 260; p. 458.
- Pavon, Manuel R., Oakland, Calif. Fuel-oil-furnace burner. No. 1,297,589; Mar. 18; v. 260; p. 458.
- Pawlick, Joseph, et al. (See Pecher, Daniel, assignor.)
- Pawling and Harnischfeger Company. (See Henricks, Arthur G., assignor.)
- Pawling & Harnischfeger Company. (See Keller, Arthur C., assignor.)



## Alphabetical list of patentees—Continued.

- Pawling and Harnischfeger Company. (See Wehner, Lewis, assignor.)
- Pawson, Gilbert, Kensington Gore, London, England. Turning-tool. No. 1,317,311; Sept. 30; v. 266; p. 632.
- Paxflat Barrel and Crate Corporation. (See Le Feyre and Hutchinson, assignors.)
- Paxson, Calvin D., assignor to The Paxson Rim Co., Cleveland, Ohio. Detachable wheel-rim. (Reissue.) No. 14,634; Apr. 15; v. 261; p. 603.
- Paxson, Harry A., Altoona, Pa. Oil-burner. No. 1,290,384; Jan. 7; v. 258; p. 77.
- Paxson, Levi B., Norristown, Pa. Power-transmission mechanism. No. 1,296,212; Mar. 4; v. 260; p. 91.
- Paxson Rim Co., The. (See Paxson, Calvin D., assignor.) (Reissue.)
- Paxton, Samuel O., Rosedale, Kans. Corn-harvester. No. 1,310,133; July 15; v. 264; p. 457.
- Paxton, Sherman H., St. Paul, Minn. Ink-applying device. No. 1,313,833; Aug. 19; v. 265; p. 424.
- Paxton, Sherman H., St. Paul, Minn. Dispensing device for gummed tape. No. 1,326,527; Dec. 30; v. 269; p. 781.
- Payer, Alexander C., et al. (See Lobar, Abraham J., assignor.)
- Payette, Joseph P., Centralia, Wash. Tire-chain. No. 1,320,411; Nov. 4; v. 268; p. 11.
- Payne, Charles H., Cincinnati, Ohio. Inking-pad. No. 1,323,487; Dec. 2; v. 269; p. 50.
- Payne, Charles H., assignor of one-third to J. J. Clift, Soddy, Tenn. Railway-track guard. No. 1,303,719; May 13; v. 262; p. 259.
- Payne, Clarence Q., New York, N. Y. Method of and apparatus for grading or sizing of materials of all kinds. No. 1,320,169; Oct. 28; v. 267; p. 586.
- Payne, David E., Magnolia, Minn. Post-hole-boring machine. No. 1,294,154; Feb. 11; v. 259; p. 306.
- Payne, David H., Decatur, Tex. Dental instrument. No. 1,326,089; Dec. 23; v. 269; p. 661.
- Payne, Frank E., assignor to Crane Packing Company, Chicago, Ill. Manufacturing packing. No. 1,325,955; Dec. 23; v. 269; p. 636.
- Payne, George W., Kansas City, Mo. Radiator-shield for automobiles. No. 1,304,089; May 20; v. 262; p. 365.
- Payne, James I. (See Meyer and Payne.)
- Payne, John H., Ballston Spa, N. Y., assignor to General Electric Company. Electrical resistance. No. 1,291,106; Jan. 14; v. 258; p. 288.
- Payne, John H., Jr., Schenectady, N. Y., assignor to General Electric Company. Radiotelephone system. No. 1,313,112; Aug. 12; v. 265; p. 272.
- Payne, John W. (See Salter, Edmond A., assignor.)
- Payne, Theodore P., New York, N. Y., and E. V. Wurts, Newark, N. J., assignors to Steel Utilities, Inc. Metal-working machine. No. 1,298,555; Mar. 25; v. 260; p. 690.
- Payne, Tillman S., Cleveland, Tenn. Coating and polishing composition. No. 1,295,584; Feb. 25; v. 259; p. 695.
- Payne, William. (See Du Bois and Payne.)
- Payson, George H. (See Plumley, Gardner L., assignor.)
- Payton, C. T. (See Guild, George R., assignor.)
- Payzant, Octave S., New York, N. Y. Internal-combustion engine. No. 1,306,618; June 10; v. 263; p. 292.
- Pazaychuk, Wasil, and W. Patz, New Castle, Del. Anti-submarine device. No. 1,302,206; Apr. 29; v. 261; p. 883.
- Peace, William H., assignor of one-half to Hughes Peace Lumber Co., Thomasville, N. C. Box-shook machine. No. 1,296,424; Mar. 4; v. 260; p. 136.
- Peach, Samuel V. (See With, Julius E. B., assignor.)
- Peacock, Alexander, and T. H. Hutchinson, Birmingham, England. Work-feed mechanism for power-presses and other purposes. No. 1,292,866; Jan. 28; v. 258; p. 759.
- Peacock, Alexander, and T. H. Hutchinson, Birmingham, England. Controlling mechanism for power-presses and other purposes. No. 1,322,134; Nov. 18; v. 268; p. 448.
- Peacock, Benjamin A. (See Haslup and Peacock.)
- Peacock, Benjamin A., Philadelphia, Pa., assignor to R. Gilchrist, New York, N. Y. Producing potassium hydrate from green sand. No. 1,309,744; July 15; v. 264; p. 387.
- Peacock, Benjamin A., Philadelphia, Pa., assignor, by mesne assignments, to R. Gilchrist, New York, N. Y. Decomposing natural silicates. No. 1,310,770; July 22; v. 264; p. 605.
- Peacock, Charles J., Beedeville, Ark. Stump-saw. No. 1,291,630; Jan. 14; v. 258; p. 408.
- Peacocke, George A., Victoria, British Columbia, Canada. Game apparatus. No. 1,314,754; Sept. 2; v. 266; p. 52.
- Peal, Marshall B., Brooklyn, N. Y. Phonograph. No. 1,307,020; June 17; v. 263; p. 399.
- Pearce, Edwin S. (See Downing and Pearce.)
- Pearce, Louise. (See Jacobs, Brown, Heidelberg, and Pearce.)
- Pearl, Eugene, New York, N. Y. Crutch. No. 1,311,664; July 29; v. 264; p. 804.
- Pearl, Eugene, New York, N. Y. Crutch. No. 1,317,386; Sept. 30; v. 266; p. 647.
- Pearne, Frank Y., Los Angeles, Calif. Punching and riveting machine. No. 1,305,972; June 3; v. 263; p. 141.
- Pearne, Frank Y., Los Angeles, Calif. Riveting-machine. No. 1,305,973; June 3; v. 263; p. 141.
- Pearne, Frank Y., Los Angeles, Calif. Riveting and punching machine. No. 1,305,974; June 3; v. 263; p. 141.
- Pearsall, Albert W., Lowell, Mass. Y-inlet for pneumatic-despatch-tube apparatus. No. 1,309,598; July 8; v. 264; p. 322.
- Pearsall, Albert W., Lowell, assignor to The Lamson Company, (formerly Lamson Consolidated Store Service Company,) Boston, Mass. Pneumatic-despatch-tube apparatus. No. 1,311,617; July 29; v. 264; p. 796.
- Pearsall, Benjamin F., Jr., Wallace, N. C. Automatic safety railway-switch. No. 1,326,779; Dec. 30; v. 269; p. 828.
- Pearsall, Chester B., assignor to M. D. Knowlton Company, Rochester, N. Y. Box-covering machine and the like. No. 1,302,587; May 6; v. 262; p. 20.
- Pearsall, Luther T., Pittsburgh, Pa. Cut-off valve. No. 1,291,631; Jan. 14; v. 258; p. 409.
- Pearson, Bernhard. (See Smith, Larson, and Pearson.)
- Pearson, Calvin. (See St. Louis and Pearson.)
- Pearson, Carl E., Lansing, Mich. Dynamo. No. 1,291,107; Jan. 14; v. 258; p. 288.
- Pearson, Carl E., Lansing, Mich. Battery-charging unit for internal-combustion engines. No. 1,319,897; Oct. 28; v. 267; p. 536.
- Pearson, Charles, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Mowing-machine. No. 1,314,605; Sept. 2; v. 266; p. 24.
- Pearson, Charles, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Forming knife-heads for mowing-machines. No. 1,319,485; Oct. 21; v. 267; p. 435.
- Pearson, Christopher, Philadelphia, Pa. Shock-absorbing device for guns. No. 1,305,617; June 3; v. 263; p. 75.
- Pearson, Edwin R., Pittsfield, Mass., assignor to General Electric Company. Air-blast transformer. No. 1,301,735; Apr. 22; v. 261; p. 763.
- Pearson, Fred. (See Blackwood and Pearson.)
- Pearson, Fred L., Sioux City, Iowa. Locking-valve. No. 1,304,506; May 20; v. 262; p. 446.
- Pearson, Gardner W. (See Casey, James J., assignor.)
- Pearson, George F., Lowell, Mass. Spirit-message-conveying device. No. 1,322,727; Nov. 25; v. 268; p. 612.
- Pearson, Herbert P., assignor to Pearson Products Corporation, New York, N. Y. Waterproofing fabrics. No. 1,307,373; June 24; v. 263; p. 496.
- Pearson, James H., assignor of one-third to C. E. Fuller and one-third to J. Hasler, Bloomfield, Ind. Baling-press. No. 1,321,548; Nov. 11; v. 268; p. 288.
- Pearson, John, Chicago, Ill. Car construction. No. 1,297,004; Mar. 11; v. 260; p. 305.
- Pearson, John H., Indianapolis, Ind., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Apparatus for surfacing lenses. (Reissue.) No. 14,666; June 10; v. 263; p. 305.
- Pearson, John H., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Reciprocating lens-surfacing apparatus. No. 1,317,453; Sept. 30; v. 266; p. 660.
- Pearson, John W., Chicago, Ill. Equalizer for dynamo-electric machines. No. 1,315,237; Sept. 9; v. 266; p. 150.
- Pearson, John W., Chicago, Ill. Armature. No. 1,320,795; Nov. 4; v. 268; p. 82.
- Pearson, Nels, assignor to O. Lindgren, Vancouver, British Columbia, Canada. Clevis. No. 1,299,018; Apr. 1; v. 261; p. 92.
- Pearson Products Corporation. (See Pearson, Herbert P., assignor.)
- Pearson, Swan, Minneapolis, Minn. Convertible baby carriage and sleigh. No. 1,302,426; Apr. 29; v. 261; p. 926.
- Pearson, Thomas, Syracuse, N. Y. Grate. No. 1,324,689; Dec. 9; v. 269; p. 322.
- Pearson, William H., and J. L. Oefinger, Chicago, Ill. Light-shade holder. No. 1,294,530; Feb. 18; v. 259; p. 429.
- Pearson, William R., Portland, Oreg. Drafting instrument. No. 1,302,207; Apr. 29; v. 261; p. 883.
- Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,320,027; Oct. 28; v. 267; p. 560.
- Pearsons, George T., New York, N. Y. Fire-extinguishing system. No. 1,322,135; Nov. 18; v. 268; p. 449.
- Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,323,992; Dec. 2; v. 269; p. 145.
- Peart, Florence M., Liscard, England. Fountain and stylographic pen. No. 1,302,842; May 6; v. 262; p. 69.
- Pease, Dexter M., Berkeley, Calif., assignor to M. R. Colby, Portland, Oreg. Electric safe and vault protecting device. No. 1,319,416; Oct. 21; v. 267; p. 422.
- Pease, Edward L., Darlington, England. Heat-interchanging apparatus. No. 1,291,632; Jan. 14; v. 268; p. 409.
- Pease, Edward L., Darlington, England. Tubular heat-interchanging apparatus. No. 1,312,045; Aug. 5; v. 265; p. 36.
- Pease, Edward L., Darlington, England. Gilled heat-interchanging apparatus. No. 1,313,730; Aug. 19; v. 265; p. 405.
- Pease, George W., Pittsfield, Mass. Garment. No. 1,301,164; Apr. 22; v. 261; p. 652.



- Pease, George W., Pittsfield, Mass. Union-garment. No. 1,301,872; Apr. 29; v. 261; p. 820.
- Pease, Laura A., executrix. (See Oehlke, Frederick H., assignor.)
- Pease, Roger S., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Apparatus and process for drawing glass. No. 1,299,019; Apr. 1; v. 261; p. 92.
- Pease, Roger S., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Store-front. No. 1,309,911; July 15; v. 264; p. 417.
- Pease, William H., Lewiston, Me. Revolving pump. No. 1,294,347; Feb. 11; v. 259; p. 351.
- Peaslee, Hugh D., Fresno, Calif. Gear-shifting mechanism. No. 1,321,942; Nov. 18; v. 268; p. 413.
- Peavy, Leonard H., New York, N. Y. Chair. No. 1,318,403; Oct. 14; v. 267; p. 203.
- Peavey, William O., Ebro, Minn. Rice-hulling machine. No. 1,323,906; Dec. 2; v. 269; p. 129.
- Pecher, Daniel, assignor of one-third to T. Guyton and one-third to J. Pawlick, Princeton, British Columbia, Canada. Aeroplane. No. 1,296,551; Mar. 4; v. 260; p. 164.
- Peck, Arthur E., assignor to A. E. Peck Manufacturing Co., Minneapolis, Minn. Tooth-brush. No. 1,303,588; May 13; v. 262; p. 255.
- Peck, Arthur K., et al. (See Peck, Harry H., assignor.)
- Peck, Arthur K., executor. (See Peck, Harry H.)
- Peck Bros. & Co., The. (See Newton, William G., assignor.)
- Peck, Charles H., Philadelphia, Pa. Traffic-guide. No. 1,295,585; Feb. 25; v. 259; p. 695.
- Peck, Charles H., Philadelphia, Pa. Portable street-traffic signal. No. 1,317,819; Oct. 7; v. 267; p. 30.
- Peck, Charles S., assignor to Peck Fur Company, Danbury, Conn. Fur-skin-cutting machine. No. 1,321,665; Nov. 11; v. 268; p. 310.
- Peck, Frederick G., Philadelphia, Pa. Coffee-mill. No. 1,315,152; Sept. 2; v. 266; p. 123.
- Peck, Frederick G., assignor of one-half to J. B. Wilson, Philadelphia, Pa. Controlling means for electric motors. No. 1,293,532; Feb. 4; v. 259; p. 130.
- Peck Fur Company. (See Peck, Charles S., assignor.)
- Peck, Harry H., Cambridge, assignor of one-half to Fore River Shipbuilding Corporation, Quincy, three-eighths to A. K. Peck, Boston, Mass., and one-eighth to N. A. Thompson, Jr., Shanghai, China. Optical instrument. No. 1,304,507; May 20; v. 262; p. 446.
- Peck, Harry H., deceased, Cambridge; A. K. Peck, executor, Boston, assignor of one-half to Fore River Shipbuilding Corporation, Quincy, three-eighths to A. K. Peck, Boston, Mass., and one-eighth to N. A. Thompson, Jr. Optical instrument. No. 1,314,478; Aug. 26; v. 265; p. 581.
- Peck, Harry H., deceased, Cambridge; A. K. Peck, executor, Boston, assignor of one-half to Fore River Shipbuilding Corporation, Quincy, three-eighths to A. K. Peck, Boston, Mass., and one-eighth to N. A. Thompson, Jr. Optical instrument. No. 1,314,479; Aug. 26; v. 265; p. 581.
- Peck, Harry H., deceased, Cambridge; A. K. Peck, executor, Boston, assignor of one-half to Fore River Shipbuilding Corporation, Quincy, three-eighths to A. K. Peck, Boston, Mass., and one-eighth to N. A. Thompson, Jr. Optical instrument. No. 1,314,480; Aug. 26; v. 265; p. 582.
- Peck, Helen R. (See Rasmussen Ernest J., assignor.)
- Peck, Henry A., Cincinnati, Ohio. Puzzle. No. 1,314,898; Sept. 2; v. 266; p. 78.
- Peck Iron and Steel Works. (See Peck, William W., assignor.)
- Peck, Lawrence W., Wichita, Kans. Measuring apparatus. No. 1,312,351; Aug. 5; v. 265; p. 92.
- Peck, Lottie M., Braintree, Mass. Edge-trimming machine. No. 1,300,642; Apr. 15; v. 261; p. 505.
- Peck, Samuel S. (See Adams and Peck.)
- Peck, Stow & Wilcox Company, The. (See Hahnemann, Paul R., assignor.)
- Peck, William H., Cicero, Ill. Reverse-jaw expansion-chuck. No. 1,311,665; July 29; v. 264; p. 804.
- Peck, William W., Duncan, Nebr. Ball-rack. No. 1,299,218; Apr. 1; v. 261; p. 136.
- Peck, William W., assignor to Peck Iron and Steel Works, Kalamazoo, Mich. Foundry slip-jacket. No. 1,291,108; Jan. 14; v. 258; p. 288.
- Peckens, Nelson S., assignor of one-third to P. M. Ulrich and one-third to E. E. Scott, Washington, D. C. Cover-fastener. No. 1,323,488; Dec. 2; v. 269; p. 50.
- Peckham, Allen L., Chicago, Ill. Game apparatus. No. 1,293,183; Feb. 4; v. 259; p. 48.
- Peckham, Harold C. (See Jaques, Fernando O., Jr., assignor.)
- Peckham, Reginald F., Rugby, England, assignor to General Electric Company, Indirect and semi-direct fixture. No. 1,304,363; May 20; v. 262; p. 418.
- Pecoraro, Nino. (See Ferrati, Pecoraro, and Guidoni.)
- Peddle, Sidney F., Amsterdam, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Finger-guard for sewing-machines. No. 1,318,173; Oct. 7; v. 267; p. 98.
- Peden, Joseph S., New York, N. Y. Heel for shoes. No. 1,307,985; June 24; v. 263; p. 608.
- Peden, Joseph W., Grand Rapids, Mich. Automobile-foot-rest. No. 1,316,180; Sept. 16; v. 266; p. 336.
- Pedersen, Einar, Copenhagen, Denmark. Hair-pin. No. 1,309,334; July 8; v. 264; p. 273.
- Pedersen, Harold C., New York, N. Y. Match-box. No. 1,318,458; Oct. 14; v. 267; p. 213.
- Pedersen, Hazel N., Racine, Wis. Upholstered seat structure. No. 1,306,619; June 10; v. 263; p. 292.
- Pedersen, John D., Jackson, Wyo. Magazine-firearm. No. 1,317,988; Oct. 7; v. 267; p. 62.
- Pedersen, Niels. (See Holst and Pedersen.)
- Pedersen, Niels, assignor to A. Brock, Jr., Philadelphia, Pa. Spring-motor control. No. 1,301,873; Apr. 29; v. 261; p. 821.
- Pedersen, Niels, assignor to A. Brock, Jr., Philadelphia, Pa. Spring-motor control. No. 1,301,968; Apr. 29; v. 261; p. 839.
- Pedersen, Niels, assignor to A. Brock, Jr., Philadelphia, Pa. Automatic plate-camera. No. 1,311,416; July 29; v. 264; p. 758.
- Pedersen, Otto, Brooklyn, N. Y. Pipe-wrench. No. 1,325,906; Dec. 23; v. 269; p. 627.
- Pedersen, Peder, Port Oxford, Oreg. Nut-vice. No. 1,314,017; Aug. 26; v. 265; p. 493.
- Pederson, Hans. (See Clausen, Martin J., assignor.)
- Pederson, Ole, Boyceville, Wis. Tractor. No. 1,317,312; Sept. 30; v. 266; p. 633.
- Pederson, Paulin A. (See Long and Pederson.)
- Pedrick, Howard A., Bala, assignor to Pedrick Tool and Machine Company, Philadelphia, Pa. Tool-feeding mechanism. No. 1,307,266; June 17; v. 263; p. 443.
- Pedrick, Howard A., Bala, and G. F. Kolb, Philadelphia, Pa., assignors to Pedrick Tool and Machine Company. Making piston-rings. No. 1,320,088; Oct. 28; v. 267; p. 572.
- Pedrick Tool and Machine Company. (See Pedrick, Howard A., assignor.)
- Pedrick Tool and Machine Company. (See Pedrick and Kolb, assignors.)
- Pedrick, William E., assignor to Larkin Co., Buffalo, N. Y. Mechanism for feeding sheets, pamphlets, or analogous articles. No. 1,292,641; Jan. 28; v. 258; p. 707.
- Pedrick, William E., assignor to Larkin Co., Buffalo, N. Y. Stacking mechanism. No. 1,292,642; Jan. 28; v. 258; p. 707.
- Peek, George W., San Francisco, Calif. Track-laying tractor. No. 1,319,242; Oct. 21; v. 267; p. 389.
- Peele, Hereward J., St. Louis, Mo. Cable suspension. No. 1,301,496; Apr. 22; v. 261; p. 717.
- Peeler, Floyd R., Akron, Ohio. Meat-tenderer. No. 1,326,780; Dec. 30; v. 269; p. 828.
- Peelle Company, The. (See Wexler, Benjamin, assignor.)
- Peer, Arthur R., Berkeley Springs, W. Va. Safety device for locomotives. No. 1,322,609; Nov. 25; v. 268; p. 590.
- Peerless Chain Company. (See Gahring, Frederick A., assignor.)
- Peerless Motor Car Company, The. (See Wackwitz, Ernest F., assignor.)
- Peerless Rubber Manufacturing Company. (See Wiczorek, Clemens R., assignor.)
- Peerless Vulcanite Company, The. (See Burns, William J., assignor.)
- Peerson, James M., Florence, Ala. Compound press. No. 1,297,901; Mar. 18; v. 260; p. 525.
- Peeters Alexander F., assignor to Naamlooze Vennootschap Glasfabriek Leerdam, Leerdam, Netherlands. Glass-furnace. No. 1,293,533; Feb. 4; v. 259; p. 130.
- Peets, Clifford S., Great Neck Station, N. Y., and O. D. Shonnard, Montclair, N. J., assignors of two-thirds to said O. D. Shonnard and one-third to H. W. Shonnard, Upper Montclair, N. J. Brake. No. 1,300,003; Apr. 8; v. 261; p. 341.
- Peets, Frank R., Merrill, N. Y. Automatic brake. No. 1,308,105; July 1; v. 264; p. 18.
- Pegg, Gerald. (See Bates and Pegg.)
- Pegg, James P., St. Catharines, Ontario, Canada. Automatic alarm. No. 1,320,796; Nov. 4; v. 268; p. 82.
- Pegg, John H., Wabash, Ind. Vault. No. 1,324,518; Dec. 9; v. 269; p. 290.
- Pegram, Walter M., Newburgh, N. Y. Rail-joint. No. 1,321,844; Nov. 18; v. 268; p. 395.
- Pegram, William R. H., Elkin, N. C. Portable lever or hand-car turn-table. No. 1,311,770; July 29; v. 264; p. 824.
- Pehel, Zygmunt, assignor of one-half to J. Strzykowski, New York, N. Y. Automatic lock for windows. No. 1,298,251; Mar. 25; v. 260; p. 626.
- Peller, Karl E., et al. (See Lorenz and Law, assignors.)
- Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-pressing machine. No. 1,292,033; Jan. 21; v. 258; p. 538.
- Peller, Karl E., assignor of one-ninth to himself and two-ninths to W. A. Lorenz, Hartford, Conn., and six-ninths to Beech-Nut Packing Company, Canajoharie, N. Y. Gum-strainer. No. 1,296,112; Mar. 4; v. 260; p. 68.
- Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Method and machine for gathering glass. No. 1,324,464; Dec. 9; v. 269; p. 280.



## Alphabetical list of patentees—Continued.

- Peiler, Karl E., Hartford, Conn., assignor to Hartford Fairmont Company, Canajoharie, N. Y. Magnetic-clutch-controlling method and apparatus. No. 1,297,236; Mar. 11; v. 260; p. 355.
- Peiler, Karl E., and E. H. Lorenz, West Hartford, Conn., assignors to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-working machine. No. 1,316,550; Sept. 16; v. 266; p. 407.
- Peine, Adolphus G., assignor to Alfred Decker & Cohn, Chicago, Ill. Trousers safety-pocket. No. 1,310,210; July 15; v. 264; p. 471.
- Peirce, Albert B. (See Alo, Philip, assignor.)
- Peirce, Frank J., Parkers Landing, Pa. Vehicle-tire. No. 1,320,343; Oct. 28; v. 267; p. 618.
- Peirce, John R., New York, N. Y. Distributing-machine. No. 1,316,461; Sept. 16; v. 266; p. 389.
- Peirce, Ralph S., Hinsdale, Ill. Pipe-holder. No. 1,292,034; Jan. 21; v. 258; p. 539.
- Peirce, Ralph S., Hinsdale, Ill. Supporting device. No. 1,318,584; Oct. 14; v. 267; p. 238.
- Peirce, Ralph S., Hinsdale, Ill. Electric lamp. No. 1,321,242; Nov. 11; v. 268; p. 231.
- Peirce, William B., North Tonawanda, assignor to Buffalo Bolt Company, Buffalo, N. Y. Metal-heating apparatus. No. 1,302,843; May 6; v. 262; p. 69.
- Peirce, William S., trustee. (See Stokes, Frederick W. S., assignor.)
- Peiter, Frederick, Brooklyn, N. Y. Furnace. No. 1,318,690; Oct. 14; v. 267; p. 258.
- Peiter, Frederick, assignor of one-half to Arthur G. McKee & Company, Cleveland, Ohio. Gas and air controlling means for coke-ovens. No. 1,291,109; Jan. 14; v. 258; p. 288.
- Pejchar, Josef, Brooklyn, N. Y. Ear-ring. No. 1,296,552; Mar. 4; v. 260; p. 165.
- Pekar, Joseph. (See Panzner and Pekar.)
- Pelc, Frank. (See Pelc, Stefania and F.)
- Pelc, Stefania and F., McDonald, Pa. Cane-gun. No. 1,320,493; Nov. 4; v. 268; p. 25.
- Pelletier, Achille J., and F. Belisle, Ottawa, Ontario, Canada. Combined switch and fuse. No. 1,321,390; Nov. 11; v. 268; p. 259.
- Pelletier, Joseph C., and D. Rondeau, Winnipeg, Manitoba, Canada. Index cutter and printer. No. 1,302,083; Apr. 29; v. 261; p. 860.
- Pelletier, Louis F. (See Ciglia and Pelletier.) (Reissue.)
- Pellisero, Nicholas C., Scammon, assignor of one-fifth to A. Luckey, Columbus, Kans. Resilient tire. No. 1,297,902; Mar. 18; v. 260; p. 526.
- Pellow, Arthur, assignor to American Optical Company, Southbridge, Mass. Lens-forming process. No. 1,312,920; Aug. 12; v. 265; p. 234.
- Peloux, Albert. (See Perdrisat and Peloux.)
- Pelouze Manufacturing Co. (See Schultz, Frank A., assignor.)
- Pelstring, Henry G. (See Dodson and Pelstring.)
- Peltier, Charles G., Ontonagon, Mich. Combined hair brush and comb. No. 1,303,720; May 13; v. 262; p. 260.
- Pelton, Charles H., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Hay-loader. No. 1,319,724; Oct. 28; v. 267; p. 503.
- Pelton, Charles H., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Gearing for grain-drills. No. 1,326,363; Dec. 30; v. 269; p. 750.
- Pelton, Clyde S., Cleveland Heights, assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Heater for motor-driven vehicles. No. 1,302,208; Apr. 29; v. 261; p. 883.
- Pelton, Clyde S., Cleveland Heights, assignor, by mesne assignments, to The Perfection Heater & Manufacturing Company, Cleveland, Ohio. Heater for motor-propelled vehicles. No. 1,309,216; July 8; v. 264; p. 251.
- Pelton, Clyde S., Cleveland Heights, assignor, by mesne assignments, to The Perfection Heater & Manufacturing Company, Cleveland, Ohio. Heater for motor-propelled vehicles. No. 1,314,697; Sept. 2; v. 266; p. 43.
- Pelton, Clyde S., Cleveland Heights, assignor, by mesne assignments, to The Perfection Heater & Manufacturing Company, Cleveland, Ohio. Heater for motor-propelled vehicles. (Reissue.) No. 1,474,79; Nov. 11; v. 268; p. 336.
- Pelton, Edward T., Chicago, Ill., assignor, by mesne assignments, to American Super-Steel Corporation. Making steel. No. 1,315,034; Sept. 2; v. 266; p. 103.
- Pelton, George E., Georgetown, Ky. Type-writer. No. 1,324,265; Dec. 9; v. 269; p. 240.
- Pelton, John C., San Francisco, Calif. Compacting apparatus. No. 1,306,620; June 10; v. 263; p. 292.
- Pelton Water Wheel Company. (See Doble, William A., assignor.)
- Pelz, Bruno, New York, N. Y. Movable-eye doll. No. 1,310,925; July 22; v. 264; p. 633.
- Pelzer, Matilda, Norwood, Ohio. Gas attachment for heating-furnaces. No. 1,310,926; July 22; v. 264; p. 634.
- Pemberton, Cyrus L., Fairmount, Ind. Fishing-reel. No. 1,325,264; Dec. 16; v. 269; p. 491.
- Pemberton, George F., Lincoln, assignor to Gladding, McBean & Company, San Francisco, Calif. Brick-cutting machine. No. 1,302,964; May 6; v. 262; p. 92.
- Pembroke, Charles J., et al. (See MacDonald and Dougherty, assignors.)
- Pembroke, Charles J., Rochester, N. Y. Carbureter. No. 1,310,432; July 22; v. 264; p. 543.
- Pemock, Willard, Minerva, Ohio. Tilting device for headlights. No. 1,322,045; Nov. 18; v. 268; p. 432.
- Pencil Products Company. (See Most, Lucifer J., assignor.)
- Pendergast, Frederick W., Cambridge, Mass. Apparatus for raising sunken vessels. No. 1,293,899; Feb. 11; v. 259; p. 246.
- Pendergast, Frederick W., Cambridge, Mass. Apparatus for raising sunken vessels. No. 1,293,900; Feb. 11; v. 259; p. 246.
- Pendergast, Frederick W., Cambridge, Mass. Wind and water motor. No. 1,306,311; June 10; v. 263; p. 235.
- Pendleton, Henry M. (See Holden and Pendleton.)
- Pendley, Perry E. (See Carruth and Pendley.)
- Penfield, Raymond C. (See Moore, Benjamin S., assignor.)
- Pengelly, Fred R., et al. (See Laing, James A., assignor.)
- Pennington, Quintus C., Pryor, Okla. Non-skid tire-tread. No. 1,293,901; Feb. 11; v. 259; p. 246.
- Penketh, George, et al. (See Sweet, Arthur E., assignor.)
- Penn Electrical & Manufacturing Company. (See Rogers and O'Neill, assignors.)
- Penn, George R., Baltimore, Md. Paper bottle. No. 1,315,394; Sept. 9; v. 266; p. 178.
- Penn, Harry J., Madison, N. C. Garter. No. 1,309,912; July 15; v. 264; p. 418.
- Penn, Harry J., Madison, N. C. Tobacco-extractor. No. 1,311,618; July 29; v. 264; p. 796.
- Penn Rivet Corporation. (See Normand, Henry S., assignor.)
- Penn, Thomas C., Cleveland, Ohio, assignor to National Carbon Company, Inc. Casting apparatus. No. 1,318,404; Oct. 14; v. 267; p. 203.
- Pennell, Joseph D. (See La Chance and Pennell.)
- Penney, Harold D. (See Dole, Frederick J., assignor.)
- Penney, Harold D., Pelham, assignor to R. L. McElroy, New York, N. Y. Diaphragm-mounting. No. 1,299,604; Apr. 8; v. 261; p. 255.
- Penney, Harold D., assignor to Powers Accounting Machine Company, New York, N. Y. Total-printing offset mechanism. No. 1,317,454; Sept. 30; v. 266; p. 660.
- Penney, Harold D., Pelham, N. Y., and G. F. Russ, Jersey City, N. J., assignors to Automatic Inserting Machine Corporation, New York, N. Y. Sheet-feeding mechanism. No. 1,314,359; Aug. 26; v. 265; p. 559.
- Penney, Harold D., Pelham, C. E. Whiteman, Richmond Hill, N. Y., and G. F. Russ, Jersey City, N. J., assignors to Automatic Inserting Machine Corporation, New York, N. Y. Envelop filling and closing machine. No. 1,317,387; Sept. 30; v. 266; p. 647.
- Penney, Loren W. (See Banfield, Penney, and Colby.)
- Penney, Loren W., Newton, assignor to Saco-Lowell Shops, Boston, Mass. Carding-engine. No. 1,307,415; June 24; v. 263; p. 503.
- Penney, Loren W., Newton, assignor to Saco-Lowell Shops, Boston, Mass. Means for cleaning cards. No. 1,307,452; June 24; v. 263; p. 511.
- Penning, Cornelis J. H., Umfolozi River, Zululand, South Africa. Wire-stretching device. No. 1,292,867; Jan. 28; v. 258; p. 760.
- Penning, Cornelis J. H., New York, N. Y. Combustion-engine. No. 1,317,939; Oct. 7; v. 267; p. 53.
- Pennington, John R. (See Pennington, William D. and J. R.)
- Pennington, Joseph L., Tonopah, Nev. Irrigating apparatus. No. 1,300,866; Apr. 15; v. 261; p. 552.
- Pennington, Thomas J., Naugatuck, Conn. Ore-treating apparatus. No. 1,294,531; Feb. 18; v. 259; p. 429.
- Pennington, William D., French Lick, Ind., and J. R. Pennington, Chicago, Ill. Electrical generator. No. 1,301,077; Apr. 15; v. 261; p. 600.
- Pennink, Johan M. K., Amsterdam, Netherlands. Disk engine. No. 1,323,907; Dec. 2; v. 269; p. 129.
- Pennock, Dominicus J., Zevenbergen, Netherlands. Apparatus for treating and drying vegetables. No. 1,306,835; June 17; v. 263; p. 364.
- Pennock, Dominicus J., Zevenbergen, Netherlands. Method and apparatus for drying steamed or boiled vegetables. No. 1,317,215; Sept. 30; v. 266; p. 614.
- Pennock, Lewis W., Cleveland, Ohio. Table-leaf combination. No. 1,307,145; June 17; v. 263; p. 421.
- Pennsylvania Crusher Company. (See Miller, Joseph L., assignor.)
- Pennsylvania Iron and Steel Products Company. (See Downs, Fred B., assignor.)
- Pennsylvania Lawn Mower Works. (See Braun, William P. M., assignor.)
- Pennsylvania Salt Manufacturing Company. (See Pugh, Edward J., assignor.)
- Pennsylvania Tank Car Company, The. (See Drake and Stevenson, assignors.)
- Pennsylvania Wire Glass Company. (See Cox, Walter, assignor.)
- Pennsylvania Wire Glass Company. (See Sherwood, Laurence T., assignor.)
- Penny, Georgia L., Allston, Mass. Film-carrying device. No. 1,325,372; Dec. 16; v. 269; p. 510.
- Penny, Henry C., Jr. (See Penny, Louis W., assignor.)



- Penny, Louis W., assignor of one-half to H. C. Penny, Jr., Detroit, Mich. Gear-shifting mechanism. No. 1,317,175; Sept. 30; v. 266; p. 607.
- Penote, Augustus J., Cleveland, Ohio. Form for concrete structures. No. 1,316,462; Sept. 16; v. 266; p. 389.
- Penrose, Hallack A. (See Johnston, William G., assignor.)
- Penrose, John, and E. A. Ploeger, Chicago, Ill. Automatic relief-valve. No. 1,290,335; Jan. 7; v. 258; p. 78.
- Penrose, Richard A., Philadelphia, Pa. Detachable vehicle-wheel. No. 1,320,170; Oct. 28; v. 267; p. 586.
- Pente, William, assignor of one-half to A. E. Bueschel, Chicago, Ill. Paper box. No. 1,299,503; Apr. 8; v. 261; p. 230.
- Pentecost, Arthur, East Orange, N. J., assignor to The Adder Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,296,693; Mar. 11; v. 260; p. 233.
- Pentecost, Arthur, East Orange, N. J., assignor to The Adder Machine Company, Wilkes-Barre, Pa. Adding-machine. No. 1,302,965; May 6; v. 262; p. 93.
- Pentler, Sigmund J., Wausau, Wis. Shoe construction. No. 1,311,356; July 29; v. 264; p. 747.
- Pentler, Sigmund J., and O. R. Short, Wausau, Wis. Stitched-down-shoe construction. No. 1,315,637; Sept. 9; v. 266; p. 221.
- Pentler, Sigmund J., and O. R. Short, Wausau, Wis. Stitched-down shoe. No. 1,320,797; Nov. 4; v. 268; p. 82.
- Pentz, Albert D., Jr., New York, N. Y. Restoring teeth. No. 1,321,124; Nov. 11; v. 268; p. 207.
- Penwell, Tim, and H. E. Brown, El Dorado, Kans. Trap. No. 1,308,255; July 1; v. 264; p. 45.
- People of the United States *et al.* (See Sanders, George E., assignor.)
- People of the United States. (See Yoder and Longley, assignors.)
- Peoples, James E., Alva, Okla. Hydraulic transmission. No. 1,313,415; Aug. 19; v. 265; p. 345.
- Peoples, John S., Washington, D. C. Ammunition-packing case. No. 1,306,312; June 10; v. 263; p. 236.
- Peoples State Bank, The, trustee. (See Geissinger, Harry G., assignor.)
- Pepler, Thomas, assignor to P. F. Campbell, Iowa City, Iowa. Vaporizing attachment for internal-combustion engines. No. 1,302,844; May 6; v. 262; p. 69.
- Pequegnat, Frank A., Riverside, Calif. Valve-lifter. No. 1,302,427; Apr. 29; v. 261; p. 926.
- Perazich, Steve M., *et al.* (See Arch, Charles J., assignor.)
- Percivall, Hugh L., Petersburg, Va. Peanut-harvester. No. 1,321,326; Nov. 11; v. 268; p. 247.
- Perdue, Theodore A., Toledo, Ohio. Lock for motor-vehicles. No. 1,314,426; Aug. 26; v. 265; p. 572.
- Perdrisat, Charles, and A. Peloux, Geneva, Switzerland, assignors to Fabrique des Longines, Francillon & Co., S. A., St. Imier, Switzerland. Energy-meter for alternating electric currents. No. 1,291,110; Jan. 14; v. 258; p. 288.
- Perea, Bibian. (See Kemm, Charles F., assignor.)
- Pereda, Celedonio V., Buenos Aires, Argentina. Multiple seed and fertilizer drill. No. 1,302,428; Apr. 29; v. 261; p. 926.
- Pereire, Gustave. (See Tardieu and Pereire.)
- Pereire, Gustave, Paris, France. Manifold. No. 1,292,868; Jan. 28; v. 258; p. 760.
- Perey, Frank J., Brooklyn, N. Y. Turnstile. No. 1,307,317; June 17; v. 263; p. 452.
- Perez, Frank M., Brooklyn, assignor, by mesne assignments, to D. Brody, New York, N. Y. Receptacle for display. No. 1,313,906; Aug. 26; v. 265; p. 471.
- Perfect Combustion Burner and Mixer Company, The. (See Gault, Frank W., Jr., assignor.)
- Perfect Vacuum Canning Company. (See Norton, Edwin, assignor.)
- Perfection Cooling and Ventilating Company. (See Sutton, Chester R., assignor.)
- Perfection Gauge Company. (See Webster, Benjamin, assignor.)
- Perfection Heater & Manufacturing Company, The. (See Pelton, Clyde S., assignor.)
- Perfection Wood Steaming Retort Co. (See Miller, Frank L., assignor.)
- Perfecto Gear Differential Co., The. (See Baker, Arthur F., assignor.)
- Perfecto Gear Differential Co. (See Thompson, John A., assignor.)
- Perfellone Corporation. (See Holmes, Arnold H., assignor.)
- Perham, George F. (See Maxim and Perham.)
- Perkett, Louis F., assignor to Traverse City Refrigerator Co., Traverse City, Mich. Refrigerator construction. No. 1,312,868; Aug. 12; v. 265; p. 223.
- Perkins, Andrew J. and L. Chicago, Ill. Lifting-jack for automobiles. No. 1,322,941; Nov. 25; v. 268; p. 652.
- Perkins, Calvin L., Mathiston, Miss. Railway-tie. No. 1,325,994; Dec. 23; v. 269; p. 643.
- Perkins, Charles J., Chicago, Ill. Mold for manufacturing plastic blocks. No. 1,315,984; Sept. 16; v. 266; p. 300.
- Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,302,966; May 6; v. 262; p. 93.
- Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,322,816; Nov. 25; v. 268; p. 629.
- Perkins Electric Door Control Company. (See Perkins, Seth E., assignor.)
- Perkins, Elmer E., Chicago, Ill. Drying-kiln. No. 1,290,778; Jan. 7; v. 258; p. 184.
- Perkins, Frank B., Hartford, Conn. Self-draining soap-container. No. 1,311,666; July 29; v. 264; p. 805.
- Perkins, George W., Boston, Mass., assignor to Heaton Peninsular Button Fastener Company, Grand Rapids, Mich. Button-fastening machine. No. 1,297,726; Mar. 18; v. 260; p. 488.
- Perkins Glue Company. (See Grosvenor, William M., assignor.)
- Perkins Glue Company. (See Stryker, Julius B. B., assignor.)
- Perkins, Harry J., Grand Rapids, Mich. Grinding-machine. No. 1,311,992; Aug. 5; v. 265; p. 26.
- Perkins, Hiram A. (See Clement and Perkins.)
- Perkins Institution and Massachusetts School for the Blind. (See Bryan and Anderson, assignors.)
- Perkins, Ivan S., Guymon, Okla. Indicator. No. 1,308,914; July 8; v. 264; p. 194.
- Perkins, James F., Blaine, Wash. Can-washing machine. No. 1,316,641; Sept. 23; v. 266; p. 471.
- Perkins, James M., Maud, Okla. Fruit-jar lifter. No. 1,320,268; Oct. 28; v. 267; p. 605.
- Perkins, John F., Milton, and E. C. Wood, Somerville, Mass., assignors to Submarine Signal Company, Portland, Me. Establishing oscillations and mechanism therefor. No. 1,317,216; Sept. 30; v. 266; p. 614.
- Perkins, John L., *et al.* (See Daley, Edward M., assignor.)
- Perkins, Joseph W., and D. W. Roberts, Youngstown, Ohio. Circle-cutter. No. 1,316,442; Sept. 23; v. 266; p. 472.
- Perkins, Laurence M. (See Hall and Perkins.)
- Perkins, Laurence M., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,300,293; Apr. 15; v. 261; p. 431.
- Perkins, Laurence M., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,308,106; July 1; v. 264; p. 18.
- Perkins, Lester. (See Perkins, Andrew J. and L.)
- Perkins, Robert G. (See Mannon, Brown, and Perkins.)
- Perkins, Seth E., assignor to Perkins Electric Door Control Company, Waterloo, Iowa. Door-controlling device. No. 1,326,286; Dec. 30; v. 269; p. 735.
- Perkins, Walter G., San Francisco, Cal., and W. H. Fitch, Pittsburgh, Pa. Steel-smelting furnace. No. 1,295,586; Feb. 25; v. 259; p. 696.
- Perkins, William A., Ridgeway, S. C. Grate. No. 1,310,371; July 15; v. 264; p. 500.
- Perks, Thomas, assignor to George Hattersley and Sons Limited, Keighley, England. Picking or shuttle-actuating mechanism for looms. No. 1,326,528; Dec. 30; v. 269; p. 781.
- Perlick, Robert, Milwaukee, Wis. Oil-burner. No. 1,307,064; June 17; v. 263; p. 407.
- Perlick, Robert, Milwaukee, Wis. Reservoir for oil-stoves. No. 1,307,878; June 24; v. 263; p. 587.
- Perlman, Jacques M., New York, N. Y. Armor. No. 1,296,113; Mar. 4; v. 260; p. 68.
- Perlman, Jacques M., New York, N. Y. Vehicle-body. No. 1,306,836; June 17; v. 263; p. 365.
- Perlman, Julius L. (See Lawhon, Samuel M., assignor.)
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,292,638; Jan. 28; v. 258; p. 706.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,292,639; Jan. 28; v. 258; p. 707.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,303,589; May 13; v. 262; p. 235.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,303,590; May 13; v. 262; p. 235.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,307,267; June 17; v. 263; p. 443.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,307,268; June 17; v. 263; p. 443.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,320,909; Nov. 4; v. 268; p. 104.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,324,320; Dec. 9; v. 269; p. 251.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,324,617; Dec. 9; v. 269; p. 309.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,325,412; Dec. 16; v. 269; p. 518.
- Perlman, Louis H., New York, N. Y. Demountable rim. No. 1,326,090; Dec. 23; v. 269; p. 661.
- Perman, Per E., assignor of one-half to H. T. Tillquist, Stockholm, Sweden. Self-calculating balance. No. 1,321,845; Nov. 18; v. 268; p. 395.
- Permutit Company, The. (See Kennicott, Cass L., assignor.)
- Permutit Company, The. (See Kriegsheim, Heinrich, assignor.)
- Permutit Company, The. (See Rudolf, George, assignor.)
- Permuy, Manuel E., New York, N. Y. Silvering process. No. 1,324,690; Dec. 9; v. 269; p. 322.
- Perna, Joseph, Philadelphia, Pa. Excavator and hoist and traveler or trolley therefor. No. 1,312,869; Aug. 12; v. 265; p. 224.



## Alphabetical list of patentees—Continued.

- Pero, Bertram S. (See Hawthorne and Pero.)
- Perri, Angelo, Groveland, assignor to Reece Shoe Machinery Company, Boston, Mass. Lasting-machine. No. 1,290,651; Jan. 7; v. 258; p. 154.
- Perrin, Angelo, Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Assembling and pulling-over machine. No. 1,324,268; Dec. 9; v. 269; p. 241.
- Perrier, Eugene E., Mattawa, Ontario, Canada. Can-opener. No. 1,305,929; June 3; v. 263; p. 133.
- Perrin, Byron L. S., Ottawa, Ontario, Canada. Illuminator for writing elements. No. 1,298,384; Mar. 25; v. 260; p. 653.
- Perrin, Fernand, Volvic, France. Concentration of sulfuric acid. No. 1,301,598; Apr. 22; v. 261; p. 736.
- Perrine, Emmett B., Minneapolis, Minn. Pneumatic-despatch-tube apparatus. No. 1,305,403; June 3; v. 263; p. 33.
- Perrine, Emmett B., Minneapolis, Minn. Pneumatic-despatch-tube system. No. 1,308,191; July 1; v. 264; p. 34.
- Perrine, Richard E., Detroit, Mich. Tool-handle. No. 1,317,455; Sept. 30; v. 266; p. 660.
- Perron, Alexander J., Sparta, Wis. Spark-plug. No. 1,308,107; July 1; v. 264; p. 18.
- Perrott, Leslie M., Melbourne, Victoria, Australia. Reinforcing member of concrete building constructions. No. 1,318,405; Oct. 14; v. 267; p. 203.
- Perruche, Lucien J. J., St.-Gervais, France. Production of nitro-compounds. No. 1,325,168; Dec. 16; v. 269; p. 473.
- Perry, A. E. (See Merwin, James E., assignor.)
- Perry, Albert H., Hartsborn, Alberta, Canada. Registering instrument. No. 1,301,313; Apr. 22; v. 261; p. 683.
- Perry, Almeron H., Washington, D. C. Shoe-band. No. 1,326,687; Dec. 30; v. 269; p. 810.
- Perry, Earl D., assignor to American Car Sprinkler Co., Worcester, Mass. Street-fusher. No. 1,293,534; Feb. 4; v. 259; p. 130.
- Perry, Elkannah S., Newark, Ohio. Permutation-lock. No. 1,294,943; Feb. 18; v. 259; p. 525.
- Perry, E. W. (See Moller, Hilding, assignor.)
- Perry, Frank, Tipton, England, assignor to Industrial Inventions Limited, Tipton, Stafford, England. Incandescent-gas lighting. No. 1,312,046; Aug. 5; v. 265; p. 37.
- Perry, Frank, assignor to Industrial Inventions Limited, Tipton, England. Production of malleable-iron castings. No. 1,319,612; Oct. 21; v. 267; p. 459.
- Perry, Frank R., Chicago, Ill. Automatic control for vacuum-pumps or the like. No. 1,297,005; Mar. 11; v. 260; p. 305.
- Perry, Frank S., Chicago, Ill. Cover for ironing-boards. No. 1,304,802; May 27; v. 262; p. 540.
- Perry, Frederick H. (See Wentworth and Perry.)
- Perry, Harold B., and H. W. Chambers, Barrow-in-Furness, England. Reversible pontoon-raft. No. 1,306,275; June 10; v. 263; p. 229.
- Perry, Hubert M., Chicago, Ill., assignor to A. G. Welch, trustee. Antifriction-bearing for railway-cars. No. 1,293,184; Feb. 4; v. 259; p. 48.
- Perry, James, Somerville, Mass. Safety appliance for fluid-conduits. No. 1,296,213; Mar. 4; v. 260; p. 91.
- Perry, James, Somerville, Mass. Paper bag. No. 1,298,252; Mar. 25; v. 260; p. 626.
- Perry, John, Kensington, London, and S. G. Brown, North Acton, England. Gyro-compass. No. 1,291,695; Jan. 14; v. 258; p. 423.
- Perry, John R., assignor to Dexter Folder Company, Pearl River, N. Y. Reversible-sheet-registering mechanism. No. 1,305,741; June 3; v. 263; p. 97.
- Perry, Joseph R., Wilkes-Barre, Pa. Machine for applying resin or resinous material to violin-bows. No. 1,323,376; Dec. 2; v. 269; p. 29.
- Perry, Lee J., assignor to Vesta Accumulator Company, Chicago, Ill. Storage-battery cell. No. 1,325,653; Dec. 23; v. 269; p. 581.
- Perry, Melvin W., Algoma, Wis. Aeroplane-fuselage. No. 1,299,858; Apr. 8; v. 261; p. 311.
- Perry, Nathan G., and C. E. Hulting, assignors of one-third to C. X. Thompson, Douglas, Ariz. Clamp. No. 1,305,156; May 27; v. 262; p. 606.
- Perry, Nathan G., and C. E. Hulting, assignors of one-third to C. X. Thompson, Douglas, Ariz. Base-support. No. 1,321,666; Nov. 11; v. 268; p. 311.
- Perry, Orin F., Sr. (See Goodyear, Nelson, assignor.)
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Treating felts and the like. No. 1,293,186; Feb. 4; v. 259; p. 49.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Centrifugal apparatus and shaping plastic material. No. 1,293,535; Feb. 4; v. 259; p. 130.
- Perry, Ray P., Montclair, N. J., assignor to The Barrett Company. Colored composition sheet. No. 1,296,114; Mar. 4; v. 260; p. 68.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Roofing-felt. No. 1,302,209; Apr. 29; v. 261; p. 884.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Felt and making the same. No. 1,305,404; June 3; v. 263; p. 33.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Manufacturing felts. No. 1,307,750; June 24; v. 263; p. 564.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Caustic material in subdivided form. No. 1,312,201; Aug. 5; v. 265; p. 66.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Retainer member for roofing-fabric rolls. No. 1,312,202; Aug. 5; v. 265; p. 66.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Laminated conduit and making the same. No. 1,316,591; Sept. 23; v. 266; p. 462.
- Perry, Ray P., Upper Montclair, N. J., and J. M. Jack, Peoria, Ill., assignors to The Barrett Company. Process of and apparatus for treating felts and the like. No. 1,293,185; Feb. 4; v. 259; p. 48.
- Perry, Victor N., Buffalo, N. Y. Wheel-check. No. 1,326,688; Dec. 30; v. 269; p. 810.
- Perry, William J., Toronto, Ontario, Canada. Molding-machine. No. 1,320,910; Nov. 4; v. 268; p. 104.
- Perry, William L., San Francisco, Calif. Oil-burner. No. 1,300,643; Apr. 15; v. 261; p. 505.
- Perryclear, William E., Savannah, Ga., assignor of one-half to L. W. High, Wilson, N. C. Stove. No. 1,299,020; Apr. 1; v. 261; p. 93.
- Perryman, Austin. (See Billingsley, Oliver, assignor.)
- Persinger, Robert H. (See Kadel, Pilcher, Persinger, and Reynolds.)
- Person, Earl R., assignor to The Viscoloid Company, Leominster, Mass. Drag-return for cutting-machines. No. 1,290,336; Jan. 7; v. 258; p. 78.
- Persons-Arter Machine Company, The. (See Arter, William, assignor.)
- Persons, Charles A., Worcester, Mass. Saddle. No. 1,306,622; June 10; v. 263; p. 293.
- Persons, Marshall A., and C. G. Farmer, Newport, N. H. Valve-grinder. No. 1,301,165; Apr. 22; v. 261; p. 653.
- Persson, Hans I., Gottenborg, Sweden. Safety-holder for stirrup-straps. No. 1,323,311; Dec. 2; v. 269; p. 17.
- Persson, Otto F., Erie, Pa. Variable-pitch propeller. No. 1,316,862; Sept. 23; v. 266; p. 512.
- Persson, Otto F., Erie, Pa., assignor to General Electric Company. Coupling. No. 1,298,556; Mar. 25; v. 260; p. 691.
- Persson, Otto F., Erie, Pa., assignor to General Electric Company. Air starting means for internal-combustion engines. No. 1,298,557; Mar. 25; v. 260; p. 691.
- Persson, Otto F., Erie, Pa., assignor to General Electric Company. Pump and strainer therefor. No. 1,306,621; June 10; v. 263; p. 292.
- Pett, John E., Palms, Cal. Dustless ash-sifter. No. 1,295,058; Feb. 18; v. 259; p. 551.
- Peskind, Samuel, Cleveland, Ohio. Locking apparatus for vacuum fuel systems. No. 1,316,592; Sept. 23; v. 266; p. 462.
- Pester, Maxwell E., Milford, Conn. Lathe-dog. No. 1,299,772; Apr. 8; v. 261; p. 293.
- Pet-Son Pump Company, The. (See Peters, Theodore, assignor.)
- Petchon, Louis S., Philadelphia, Pa. Aeroplane. No. 1,311,576; July 29; v. 264; p. 788.
- Peter, Alfred, Three Rivers, Mich., assignor, by mesne assignments, to Fairbanks, Morse & Co., Chicago, Ill. Oil-engine. No. 1,324,978; Dec. 16; v. 269; p. 437.
- Peter, Bernard H., Westminster, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,321,846; Nov. 18; v. 268; p. 395.
- Peter, George W., St. Paul, Minn. Stove. No. 1,316,803; Sept. 23; v. 266; p. 512.
- Peter, Jacob, Zurich, Switzerland. Plansifter. No. 1,298,558; Mar. 25; v. 260; p. 691.
- Peter, James S., Weed, assignor to California Saw Works, San Francisco, Cal. Adjustable stop for cut-off machines. No. 1,295,587; Feb. 25; v. 259; p. 696.
- Peterca, Victor. (See Jansa, Anton, assignor.)
- Peterman, Joseph A., Brooklyn, N. Y. Sash-operating mechanism. No. 1,320,568; Nov. 4; v. 268; p. 40.
- Peterman, William A., assignor to Galland-Henning Pneumatic Malting Drum Mfg. Company, Milwaukee, Wis. Malting-drum. No. 1,316,643; Sept. 23; v. 266; p. 472.
- Petermann, Joseph, Philadelphia, Pa. Trench-cutter. No. 1,321,770; Nov. 11; v. 268; p. 330.
- Petermann, Otto, Groton, N. Y., assignor to Corona Type-writer Company, Incorporated. Type-writing machine. (Reissue.) No. 14,599; Feb. 25; v. 259; p. 754.
- Petermann, Otto, Groton, N. Y., assignor to Corona Type-writer Company, Inc. Type-writing machine. No. 1,311,911; Aug. 5; v. 265; p. 11.
- Peters, Arthur E., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governing mechanism for steam-engines. No. 1,299,773; Apr. 8; v. 261; p. 293.
- Peters, Arthur E., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,302,084; Apr. 29; v. 261; p. 860.
- Peters, Arthur E., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Emergency-stop for steam-engines. No. 1,324,064; Dec. 9; v. 269; p. 202.
- Peters, Carl, St. Louis, Mo. Boat-launching apparatus. No. 1,310,962; July 22; v. 264; p. 640.
- Peters, Charles H., et al. (See Secord, Frederick A., assignor.)



- Peters, Charles L., and A. L. Johnson, Worcester, Mass., assignors to Two Part Rim Company, Inc., Worcester, Mass. Demountable rim. No. 1,326,418; Dec. 30; v. 269; p. 759.
- Peters, Edward M., D'Hanis, Tex. Work-holder. No. 1,315,238; Sept. 9; v. 266; p. 150.
- Peters, Frank M., and W. H. Hungerford, Chicago, Ill.; said Hungerford assignor to said Peters. Carton-filling machine. No. 1,295,197; Feb. 25; v. 259; p. 606.
- Peters, Franklin F., Winnipeg, Manitoba, Canada. Match-striker. No. 1,292,035; Jan. 21; v. 258; p. 539.
- Peters, Frederick W., West Park, assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,304,901; May 27; v. 262; p. 558.
- Peters, Frederick W., West Park, assignor to The Paragon Machine, Tool & Manufacturing Company, Cleveland, Ohio. Vise. No. 1,323,647; Dec. 2; v. 269; p. 79.
- Peters, George S., Sullivan, Ill. Electrical advertising device. No. 1,293,187; Feb. 4; v. 259; p. 49.
- Peters, Heber C., New York, N. Y., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,310,963; July 22; v. 264; p. 640.
- Peters, Henry C., North Middletown, Ky. Resilient wheel. No. 1,317,097; Sept. 23; v. 266; p. 556.
- Peters, Herman L., Buffalo, N. Y. Spring-lock. No. 1,299,859; Apr. 8; v. 261; p. 311.
- Peters, Jacob H., Evansville, Ind. Kitchenola. No. 1,318,229; Oct. 7; v. 267; p. 110.
- Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of distribution. No. 1,291,111; Jan. 14; v. 258; p. 288.
- Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Parallel-flow reactance-coil. No. 1,295,921; Mar. 4; v. 260; p. 22.
- Peters, John H., Butte, Mont., and P. Hardies, Seattle, Wash. Flying-machine. No. 1,307,021; June 17; v. 263; p. 399.
- Peters, John W., Roslyn, N. Y. Apparatus for mining sulfur. No. 1,293,902; Feb. 11; v. 259; p. 246.
- Peters Machine and Manufacturing Company, The. (See Peters, Frederick W., assignor.)
- Peters Machine and Manufacturing Company, The. (See Thieme, William H., assignor.)
- Peters, Milton C., assignor to United Alfalfa Co., Omaha, Nebr. Rotary dust-valve. No. 1,306,276; June 10; v. 263; p. 230.
- Peters, Richard E., assignor to Gorham Manufacturing Company, Providence, R. I. Tea or coffee pot. No. 1,316,106; Sept. 16; v. 266; p. 322.
- Peters, Theodore, assignor to The Pet-Son Pump Company, Ferdinand, Ind. Double-acting well-pump. No. 1,302,210; Apr. 29; v. 261; p. 884.
- Peters, William A., assignor to International Patent Licensing Corporation, Chicago, Ill. Camera. No. 1,292,036; Jan. 21; v. 258; p. 539.
- Peters, Wm., et al. (See Leitch, Roy C., assignor.)
- Petersen, Alvy T., Edmonton, Alberta, Canada. Power transmitting and draft connection. No. 1,322,335; Nov. 18; v. 268; p. 486.
- Petersen, Anker, assignor to Boston Machinery Company, Boston, Mass. Braiding-machine. No. 1,305,490; June 3; v. 263; p. 49.
- Petersen, Evald E., San Francisco, Cal. Target. No. 1,293,903; Feb. 11; v. 259; p. 246.
- Petersen, Hans, Davenport, Iowa, assignor to The Linograph Company. Matrix-distributing mechanism. No. 1,317,098; Sept. 23; v. 266; p. 557.
- Petersen, Hans C., Ludington, Mich. Hydroaeroplane. No. 1,307,318; June 17; v. 263; p. 452.
- Petersen, Hermod. (See Foss and Petersen.)
- Petersen, John H. D., assignor to Link-Belt Company, Chicago, Ill. Chute for controlling the discharge of coal from reciprocating screens. No. 1,314,755; Sept. 2; v. 266; p. 53.
- Petersen, John L. (See Anderson and Petersen.)
- Petersen, Peter, Oakland, Calif. Broom-protector. No. 1,305,157; May 27; v. 262; p. 606.
- Petersen, William A., Excelsior Springs, Mo., assignor of one-half to W. L. Doyle, Whitehall, Ill. Electric scale. No. 1,302,085; Apr. 29; v. 261; p. 861.
- Petersen, Alta M., Ocean Park, Wash. Doughnut and cookie cutter. No. 1,322,942; Nov. 25; v. 268; p. 652.
- Petersen, Andrew J., Isanti, Minn. Tractor-belt mechanism. No. 1,325,858; Dec. 23; v. 269; p. 619.
- Petersen, August B., New York, N. Y. Towel holder and dispenser. No. 1,304,595; May 27; v. 262; p. 501.
- Petersen, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Bobbin-stripper. No. 1,300,004; Apr. 8; v. 261; p. 342.
- Petersen, Carl C., Washington, D. C. Hose-supporter. No. 1,315,573; Sept. 9; v. 266; p. 210.
- Petersen, Carl E., Irvington, N. J. Tool for removing overhead valve-cages of internal-combustion motors. No. 1,298,253; Mar. 25; v. 260; p. 627.
- Petersen, Charles, Leal, N. D. Fire-alarm. No. 1,322,336; Nov. 18; v. 268; p. 486.
- Petersen, Charles C., Tompkins, Saskatchewan, Canada. Door-fastener. No. 1,300,481; Apr. 15; v. 261; p. 471.
- Petersen, Charles C., Muskegon, Mich. Lock-nut construction. No. 1,301,314; Apr. 22; v. 261; p. 683.
- Peterson, Charles H., Hartford, Conn. Wheel. No. 1,319,657; Oct. 21; v. 267; p. 468.
- Peterson, Christen J., Chicago, Ill. Film-gate. No. 1,305,405; June 3; v. 263; p. 33.
- Peterson, Christen J., Chicago, Ill. Lamp-holder. No. 1,305,406; June 3; v. 263; p. 33.
- Peterson, Christen J., Chicago, Ill. Motion-picture machine. No. 1,324,266; Dec. 9; v. 269; p. 241.
- Peterson, Claus E., Worcester, assignor, by mesne assignments, to Iverson Piano Player Company, Boston, Mass. Piano-player. No. 1,295,198; Feb. 25; v. 259; p. 606.
- Peterson, Claus E., Worcester, assignor to Iverson Piano Player Company, Boston, Mass. Tracking-control mechanism for piano-players. No. 1,307,515; June 24; v. 263; p. 522.
- Peterson, Claus E., Worcester, Mass., assignor, by mesne assignments, to Iverson Piano Player Company, Boston, Mass. Music-sheet-guiding mechanism. No. 1,326,419; Dec. 30; v. 269; p. 759.
- Peterson-Culp Gearless Steam Auto Company, The. (See Peterson, James H., assignor.)
- Peterson, Daniel G. (See Long and Peterson.)
- Peterson, E. E. (See Adams, Charles H., assignor.)
- Peterson, Edward G., South Range, Wis. Shoe-polishing device. No. 1,310,670; July 22; v. 264; p. 587.
- Peterson, Frithiof, and D. R. Collier, Gardner, Mass., assignors to Collier Keyworth Company. Baby-carriage. No. 1,297,006; Mar. 11; v. 260; p. 306.
- Peterson, George A., Oakland, Cal., assignor to Unit Brick and Stone Company, San Francisco, Cal. Brick molding and pressing machine. No. 1,292,869; Jan. 28; v. 258; p. 760.
- Peterson, Gust W., Fall River, Mass. Reversing-turbine. No. 1,315,153; Sept. 2; v. 266; p. 124.
- Peterson-Harndon Clutch Company. (See Peterson, Peter R., assignor.)
- Peterson, Harriett L., Portland, Oreg. Combined secret pocket and hose-supporter. No. 1,313,229; Aug. 12; v. 265; p. 295.
- Peterson, Henry A., Ohaton, Alberta, Canada. Brush-cutter and stump-remover. No. 1,295,364; Feb. 25; v. 259; p. 644.
- Peterson, Henry J., Minneapolis, Minn. Registering device for automatic stoppers. No. 1,294,700; Feb. 18; v. 259; p. 469.
- Peterson, Herman J., Philomath, Oreg. Detachable saw-handle. No. 1,301,315; Apr. 22; v. 261; p. 683.
- Peterson-Hviid, Lauritz, Copenhagen, assignor to Aktieselskab Roulunds Fabrikker, Odense, Denmark. Treating woven textile belts. No. 1,310,867; July 22; v. 264; p. 622.
- Peterson, James and W. L., Auburn, Nebr. Pneumatic-tire tool. No. 1,317,143; Sept. 23; v. 266; p. 565.
- Peterson, James H., Price, Utah, assignor to The Peterson-Culp Gearless Steam Auto Company, Denver, Colo. Steam-generator. No. 1,317,388; Sept. 30; v. 266; p. 647.
- Peterson, Johann G., Jersey City, N. J. Electrical attachment-plug. No. 1,313,328; Aug. 19; v. 265; p. 329.
- Peterson, John, Ontonagon, Mich. Harrow. No. 1,324,407; Dec. 9; v. 269; p. 268.
- Peterson, John M., and A. O. Retrum, Dawson, Minn. Storage-battery plate and building. No. 1,295,365; Feb. 25; v. 259; p. 644.
- Peterson, John M., assignor to G. J. Sayer, Chicago, Ill. Stuffer or filler. No. 1,309,335; July 8; v. 264; p. 273.
- Peterson, John N., Fergus Falls, Minn. Piano-bench. No. 1,290,779; Jan. 7; v. 258; p. 184.
- Peterson, John N., assignor of one-half to C. F. Zanzig, Milwaukee, Wis. Bobbin-winding mechanism. No. 1,308,529; July 1; v. 264; p. 95.
- Peterson, John O., Brooklyn, N. Y. Toy shooter. No. 1,317,456; Sept. 30; v. 266; p. 660.
- Peterson, Jonathan, Brooklyn, N. Y. Labeling-machine. No. 1,317,389; Sept. 30; v. 266; p. 648.
- Peterson, Lars A., Stockholm, Sweden. Change-speed gearing. No. 1,320,911; Nov. 4; v. 268; p. 104.
- Peterson, Mitchell, Ericsburg, Minn. Gage. No. 1,317,099; Sept. 23; v. 266; p. 557.
- Peterson, Otto V., Oak Park, Ill. Window-washer's guard-clamp. No. 1,291,112; Jan. 14; v. 258; p. 289.
- Peterson, Paul, Superior, Wis. Lifting-jack. No. 1,293,904; Feb. 11; v. 259; p. 247.
- Peterson, Per A., assignor to De Laval Steam Turbine Company, Trenton, N. J. Centrifugal pump. No. 1,308,108; July 1; v. 264; p. 19.
- Peterson, Per A., assignor to De Laval Steam Turbine Company, Trenton, N. J. Flexible gear-wheel. No. 1,311,912; Aug. 5; v. 265; p. 11.
- Peterson, Peter R., assignor to Peterson-Harndon Clutch Company, Salt Lake City, Utah. Packing-ring. No. 1,307,696; June 24; v. 263; p. 554.
- Peterson, Peter R., assignor to Peterson-Harndon Clutch Company, Salt Lake City, Utah. Fluid-clutch. No. 1,307,697; June 24; v. 263; p. 554.
- Peterson, Ralph, Cypress River, Manitoba, Canada. Tractor. No. 1,292,870; Jan. 28; v. 258; p. 761.
- Peterson, Theodor, Copenhagen, Denmark. Deflated-tire circuit-closer. No. 1,323,547; Dec. 2; v. 269; p. 61.



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- Peterson, Victor E., Omaha, Nebr. Reversible trailer and steering mechanism. No. 1,303,591; May 13; v. 262; p. 236.
- Peterson, Walter R., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tandem hitch for ground-treating units. No. 1,322,046; Nov. 18; v. 268; p. 432.
- Peterson, William, Newark, N. J. Safety-suit for aviators. No. 1,325,108; Dec. 16; v. 269; p. 462.
- Peterson, William A., Charlotte, N. C. Operating mechanism for tractors. No. 1,316,922; Sept. 23; v. 266; p. 523.
- Peterson, William E., assignor of one-half to S. Orino, Spokane, Wash. Spark-arrester. No. 1,322,943; Nov. 25; v. 268; p. 652.
- Peterson, William L. (See Peterson, James and W. L.)
- Peterson, William T., San Jose, Calif. Bottle-closure. No. 1,313,503; Aug. 19; v. 265; p. 362.
- Peterson, Yust, Helena, Mont. Manually-propelled boat. No. 1,319,613; Oct. 21; v. 267; p. 459.
- Peth, Herman W., assignor to Peth Pressing Process, Inc., Rochester, N. Y. Pressing-iron. No. 1,292,510; Jan. 28; v. 258; p. 674.
- Peth Pressing Process. (See Peth, Herman W., assignor.)
- Petit, Andrés, Habana, Cuba. Tilting platform for side-dumping cars. No. 1,313,416; Aug. 19; v. 265; p. 345.
- Petit, Henri, Ermont, France. Speed-indicating device. No. 1,297,237; Mar. 11; v. 260; p. 355.
- Petitjean, Clifford O. (See Wilcox and Petitjean.)
- Petranich, Frank, St. Louis, Mo. Clamp. No. 1,300,482; Apr. 15; v. 261; p. 471.
- Petrelidus, Oscar R., assignor to Aktiebolaget Hassel, Stockholm, Sweden. Manufacturing color-prints. No. 1,320,912; Nov. 4; v. 268; p. 104.
- Petric, Edward, Chicago, Ill. Map-holder. No. 1,290,652; Jan. 7; v. 258; p. 154.
- Petrilla, John A. (See Koshi and Petrilla.)
- Petrillo, Emilio, et al. (See Evangelista, Domenico, assignor.)
- Petro, Samuel H., Los Angeles, Calif. Cooking utensil. No. 1,304,508; May 20; v. 262; p. 446.
- Petrocchi, Michael. (See Rosenthal and Petrocchi.)
- Petroff, Louis, Tyler, Pa. Plow. No. 1,309,693; July 15; v. 264; p. 377.
- Petroleum Iron Works Company, The. (See Stevenson, Frank M., assignor.)
- Petron, Anthony K., Amsterdam, N. Y. Artificial limb. No. 1,299,504; Apr. 8; v. 261; p. 230.
- Petron, Anthony K., Amsterdam, N. Y. Artificial arm. No. 1,299,505; Apr. 8; v. 261; p. 230.
- Petry, Jacob, Pittsburgh, Pa. Making dental molds. No. 1,313,907; Aug. 26; v. 265; p. 471.
- Petry, William, assignor to The Acme Car Seal Co., Chicago, Ill. Seal. No. 1,303,955; May 20; v. 262; p. 341.
- Petter, Ernest W., Yeovil, England. Internal-combustion engine of the two-cycle type. No. 1,296,214; Mar. 4; v. 260; p. 91.
- Petterson, Finn, and O. Johansen, assignors to Brodrene Sundt Verktoimaskinfabrik, A/S., Christiania, Norway. Adjustable reamer. No. 1,321,243; Nov. 11; v. 268; p. 231.
- Petterson, Kristian. (See Sælid and Petterson.)
- Petterson, Kristian, Sarpsborg, Norway. Current-limiter. No. 1,296,314; Mar. 4; v. 260; p. 113.
- Petterson, Arthur R., and A. P. Werne, Worcester, Mass. Power-operated-tool casing. No. 1,307,146; June 17; v. 263; p. 421.
- Petterson, Clarence A., assignor to N. Schiller, San Francisco, Calif. Wrapping-machine. No. 1,300,189; Apr. 8; v. 261; p. 383.
- Petterson, Ludvk M. (See Stensrud, Bernt, assignor.)
- Petterson, Magnus, Long Beach, Cal. Stabilizer. No. 1,295,059; Feb. 18; v. 259; p. 551.
- Petterson, Erick W., Jamestown, assignor to W. Lewis, Utica, N. Y. Spring bed or seat. No. 1,312,870; Aug. 12; v. 265; p. 224.
- Petty, George E., and H. Lang, Memphis, Tenn. Fuel-oil compound. No. 1,325,907; Dec. 23; v. 269; p. 627.
- Pettibone, Edwin E., and R. A. Lenz, Cleveland, Ohio. Copy-holder. No. 1,293,905; Feb. 11; v. 259; p. 247.
- Pettigrew, Cynthia, Plantersville, Miss. Mail-catcher. No. 1,300,006; Apr. 8; v. 261; p. 342.
- Pettis, Charles L., et al. (See Young, Albert H., assignor.)
- Pettis, John G., Chicago, Ill. Oxyacetylene-torch. No. 1,292,367; Jan. 21; v. 258; p. 619.
- Pettis, John G., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Regulating-valve. No. 1,314,698; Sept. 2; v. 266; p. 43.
- Pettitt, Harold L., assignor of one-half to N. M. Pettitt, Watertown, N. Y. Spraying-nozzle. No. 1,295,922; Mar. 4; v. 260; p. 23.
- Pettitt, Jesse L., Seattle, Wash. Receptacle attachment. No. 1,311,005; July 22; v. 264; p. 648.
- Pettitt, Nellie M. (See Pettitt, Harold L., assignor.)
- Petty, Enos J., and W. L. Bouchard, Port Henry, N. Y. Device for compressing valve-springs. No. 1,320,269; Oct. 28; v. 267; p. 605.
- Petty, John P., Crowthorne, England. Sheet-feeding mechanism. No. 1,303,592; May 13; v. 262; p. 236.
- Petty, William E., Storm Lake, Iowa. Drier. No. 1,297,727; Mar. 18; v. 260; p. 488.
- Petty, William E., Storm Lake, Iowa. Fly-trap. No. 1,297,728; Mar. 18; v. 260; p. 489.
- Petty, William T. (See Adams, William A., assignor.)
- Peugh, Ray L., Oklahoma, Okla. Knee-protector. No. 1,308,109; July 1; v. 264; p. 19.
- Pevare, Alexis W., Boston, Mass. Phonograph. No. 1,292,368; Jan. 21; v. 258; p. 620.
- Pew, John H., Ardmore, assignor to Sun Shipbuilding Company, Chester, Pa. Steering-gear for ships. No. 1,290,337; Jan. 7; v. 258; p. 78.
- Pewther, Judson C., Washington, D. C. Toy pistol. No. 1,291,113; Jan. 14; v. 258; p. 289.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Adjustable brake-head mechanism. No. 1,295,366; Feb. 25; v. 259; p. 644.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-head adjustable means. No. 1,295,367; Feb. 25; v. 259; p. 644.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-head adjustment. No. 1,299,605; Apr. 8; v. 261; p. 253.
- Peycke, Armand H., assignor to The American Steel Foundries, Chicago, Ill. Forming brake-beam fulcrums. 1,302,702; May 6; v. 262; p. 42.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-supporting mechanism. No. 1,310,032; July 15; v. 264; p. 439.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-releasing means. No. 1,310,033; July 15; v. 264; p. 439.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-supporting means. No. 1,315,395; Sept. 9; v. 266; p. 178.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Supporting means for brakes. No. 1,315,396; Sept. 9; v. 266; p. 179.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Means for supporting brakes. No. 1,315,397; Sept. 9; v. 266; p. 179.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Releasing means and leveling device. No. 1,315,398; Sept. 9; v. 266; p. 179.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Adjustable brake-head. No. 1,315,399; Sept. 9; v. 266; p. 179.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake leveling and release means. No. 1,315,400; Sept. 9; v. 266; p. 179.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake supporting and releasing arrangement. No. 1,315,401; Sept. 9; v. 266; p. 179.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake equipment. No. 1,315,402; Sept. 9; v. 266; p. 180.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Supporting and leveling device for clasp-brakes. No. 1,322,048; Nov. 18; v. 268; p. 433.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. No. 1,323,312; Dec. 2; v. 269; p. 17.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-supporting means. No. 1,323,313; Dec. 2; v. 269; p. 17.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake-supporting arrangement. No. 1,323,314; Dec. 2; v. 269; p. 17.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Equalizer mechanism. No. 1,323,315; Dec. 2; v. 269; p. 17.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Release-spring clip. No. 1,325,533; Dec. 23; v. 269; p. 558.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake means. No. 1,325,534; Dec. 23; v. 269; p. 559.
- Peycke, Armand H., assignor to American Steel Foundries, Chicago, Ill. Brake mechanism. No. 1,325,535; Dec. 23; v. 269; p. 559.
- Peycke, Armand H., Chicago, Ill., and L. L. Whitney, Hammond, Ind., assignors to American Steel Foundries, Chicago, Ill. Brake-supporting mechanism. No. 1,322,047; Nov. 18; v. 268; p. 433.
- Pfahler, William Q., Toledo, Ohio. Rolling tooth for worm-wheels. No. 1,297,238; Mar. 11; v. 260; p. 355.
- Pfahler, William Q., Toledo, Ohio. Gearing for tractors. No. 1,319,176; Oct. 21; v. 267; p. 377.
- Pfalzgraf, Charles F., Baltimore, Md. Portable circular sheet-metal tub. No. 1,324,432; Dec. 9; v. 269; p. 273.
- Pfannenstiehl, Harry, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,318,459; Oct. 14; v. 267; p. 214.
- Pfanstiehl, Carl, Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Fusing mechanism. No. 1,290,653; Jan. 7; v. 258; p. 154.
- Pfanstiehl, Carl, Highland Park, assignor to Pfanstiehl Company, Incorporated, North Chicago, Ill. Welding. No. 1,292,037; Jan. 21; v. 258; p. 540.



- Pfanstiehl, Carl, Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Compressing tungsten powder. No. 1,305,975; June 3; v. 263; p. 141.
- Pfanstiehl, Carl, Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Tungsten electrode. No. 1,322,610; Nov. 25; v. 268; p. 591.
- Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Compressed tungsten powder. No. 1,315,859; Sept. 9; v. 266; p. 262.
- Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Means and method of compressing powdered tungsten, tantalum, and the like into crucible form. No. 1,321,125; Nov. 11; v. 268; p. 208.
- Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Means for compressing tungsten powder. No. 1,326,614; Dec. 30; v. 269; p. 797.
- Pfanstiehl, Carl A., Waukegan, assignor, by mesne assignments, to Pfanstiehl Company, Inc., North Chicago, Ill. Cleaning contact-points. No. 1,304,803; May 27; v. 262; p. 540.
- Pfanstiehl Company. (See Dady, Arthur O., assignor.)
- Pfanstiehl Company. (See Ellery, Robert L., assignor.)
- Pfanstiehl Company. (See Gould and Konigslow, assignors.)
- Pfanstiehl Company. (See Paldani, George F., assignor.)
- Pfanstiehl Company. (See Pfanstiehl, Carl, assignor.)
- Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Relief mechanism. No. 1,309,808; July 15; v. 264; p. 398.
- Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic turbine. No. 1,309,809; July 15; v. 264; p. 398.
- Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Water-wheel bucket. No. 1,309,810; July 15; v. 264; p. 398.
- Pfefferle, Edward A., Burley, Idaho. Type-writer carriage and platen-actuator. No. 1,313,951; Aug. 26; v. 265; p. 480.
- Pfefferkorn, William L., *et al.* (See Schloerb, Albert P., assignor.)
- Pfeifer, Frank, assignor of one-fourth to G. E. Hovenden and one-fourth to A. E. Erickson, Minneapolis, Minn. Process of and apparatus for generating gas. No. 1,296,115; Mar. 4; v. 260; p. 68.
- Pfeifer, Frank, Minneapolis, Minn., assignor to Exhaust Heat, Light & Power Company, Apparatus for generating gas. No. 1,296,116; Mar. 4; v. 260; p. 69.
- Pfeifer, Frank, assignor to Straw Gas and Creosote Distilling Co., Minneapolis, Minn. Apparatus for generating gas from vegetation. No. 1,303,385; May 13; v. 262; p. 198.
- Pfeifer, John, assignor of one-third to C. L. Friermood, Springfield, Ohio. Direction-signal for automobiles. No. 1,324,923; Dec. 16; v. 269; p. 427.
- Pfeiffer, Adolph X., St. Louis, Mo. Tire-armor. No. 1,300,766; Apr. 15; v. 261; p. 532.
- Pfeiffer, Charles G. (See Parker, George W. Jr., assignor.)
- Pfeiffer, Henry J. (See Duckham and Pfeiffer.)
- Pfeiffer, Immanuel, Bedford, Mass. Buckle. No. 1,316,801; Sept. 23; v. 266; p. 501.
- Pfeil, Anthony P., East Orange, assignor to E. F. W. Wieda, Paterson, N. J. Bread-baking shell. (Reissue.) No. 14,761; Nov. 25; v. 268; p. 709.
- Pfeil, Frank, Livingston, Ill. Fire-escape. No. 1,301,497; Apr. 22; v. 261; p. 717.
- Pfeil, Rudolph L., Hanford, Cal. Wheeled scraper. No. 1,293,586; Feb. 4; v. 259; p. 131.
- Pfersch, Clarence L., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Apparatus for powdering frictionally-ignitable material. No. 1,293,188; Feb. 4; v. 259; p. 49.
- Pfister, Edwin, Cincinnati, Ohio. Indicating device. No. 1,324,924; Dec. 16; v. 269; p. 428.
- Pfister, Harry M., Binghamton, N. Y. Releasing-wrench for coal-cars. No. 1,304,090; May 20; v. 262; p. 365.
- Pfister, Winfred E., assignor to The Temco Electric Motor Company, Leipsic, Ohio. Automatic motor-switch. No. 1,306,076; June 10; v. 263; p. 189.
- Pfizer, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Electric-locomotive bed. No. 1,293,906; Feb. 11; v. 259; p. 247.
- Pfianze, Charles F., St. Louis, Mo. Cutting-machine. No. 1,302,211; Apr. 29; v. 261; p. 884.
- Pfeager, Roscoe C., Philadelphia, Pa. Lamp-socket switch. No. 1,295,588; Feb. 25; v. 259; p. 696.
- Pfeeger, William, Norwalk, Conn. Supplemental holding device for motor-vehicles. No. 1,303,110; May 6; v. 262; p. 120.
- Pfohl, Frank, Chicago, Ill. Automatic counter and stacker. No. 1,318,910; Oct. 14; v. 267; p. 300.
- Pfost, John W., Bulwinkle, Calif. Danger-signal. No. 1,305,930; June 3; v. 263; p. 133.
- Pfouts, Leroy S., assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Pasteurizer. No. 1,305,833; June 3; v. 263; p. 114.
- Pfouts, Leroy S., and E. J. Miller, assignors, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Pasteurizing apparatus and process. No. 1,325,800; Dec. 23; v. 269; p. 608.
- Pfrogner, Frank. (See Leatherman and Pfrogner.)
- Pfrommer, Amelia, Philadelphia, Pa. Nipple for nursing-bottles and holders therefor. No. 1,318,911; Oct. 14; v. 267; p. 300.
- Pfrommer, Frederick G., Yonkers, N. Y. Repeater for phonographs. No. 1,293,587; Feb. 4; v. 259; p. 131.
- Pfund, August H., Baltimore, Md. Headlight. No. 1,299,219; Apr. 1; v. 261; p. 137.
- Phares, Augustus D. (See Winders and Phares.)
- Phares, Walter M., assignor to Deal Scott Phares, San Francisco, Calif. Hoist. No. 1,316,181; Sept. 16; v. 266; p. 336.
- Pharo, Gordon C., Marysville, Calif. Lever. No. 1,306,119; June 10; v. 263; p. 197.
- Phelan, Merton D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making forms. No. 1,290,338; Jan. 7; v. 258; p. 79.
- Phelan, Merton D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Self-aligning bearing. No. 1,321,142; Nov. 11; v. 268; p. 211.
- Phelan, Merton D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Buffing-machine shaft. No. 1,323,908; Dec. 2; v. 269; p. 129.
- Phelon, Arthur E. (See Smith and Phelon.)
- Phelps, Byron, Seattle, Wash. Toilet-paper holder. No. 1,292,640; Jan. 28; v. 258; p. 707.
- Phelps, Carrington, New York, N. Y. Advertising device. No. 1,320,270; Oct. 28; v. 267; p. 605.
- Phelps, Carrington, New York, N. Y. Nut-lock. No. 1,320,271; Oct. 28; v. 267; p. 605.
- Phelps, Edward W., *et al.* (See Shepard, Charles J., assignor.)
- Phelps, Edwin S., Elizabeth, N. J. Recording time-lock. No. 1,314,427; Aug. 26; v. 265; p. 572.
- Phelps, Edwin S., Elizabeth, N. J. Projectile. No. 1,321,667; Nov. 11; v. 268; p. 311.
- Phelps, Elmer F., Idaho Springs, Colo. Automatic feed-water-valve-operating device. No. 1,317,940; Oct. 7; v. 267; p. 53.
- Phelps, Isaac E., Wahoo, Nebr. Filing-case. No. 1,325,041; Dec. 16; v. 269; p. 449.
- Phelps, James C., Springfield, Mass. Outlet device for conduits. No. 1,294,155; Feb. 11; v. 259; p. 306.
- Phelps, James C., Springfield, Mass. Outlet-cap and making the same. No. 1,313,329; Aug. 19; v. 265; p. 329.
- Phelps, Spencer H., assignor to Peeman Garden Tractor Co., Minneapolis, Minn. Plow-hitch for walking-tractors. No. 1,308,445; July 1; v. 264; p. 79.
- Phelps, Walter H., Newark, N. J. Button and pin therefor. No. 1,310,804; July 22; v. 264; p. 612.
- Phelps, William R., Milford, Del. Artificial tooth. No. 1,296,846; Mar. 11; v. 260; p. 268.
- Phil-Har-Chee Piano Player Corporation. (See Cheek, Tolbert F., assignor.)
- Philadelphia Drying Machinery Company, The. (See Allsop and Sibson, assignors.)
- Philadelphia Drying Machinery Company, The. (See Parkes, Bertrand A., assignor.)
- Philadelphia Drying Machinery Company, The. (See Sibson, Walter W., assignor.)
- Philadelphia Metal Drying Form Company. (See Von Stetten, Julius O., assignor.)
- Philadelphia Storage Battery Company. (See Martin, Harold M., assignor.)
- Philadelphia Textile Machinery Company, The. (See Applegate, Daniel H., Jr., assignor.)
- Philadelphia Textile Machinery Company. (See Bogarty, Hermann, assignor.)
- Philadelphia Textile Machinery Company. (See Coulston, Harry, assignor.)
- Philipp, Michael, assignor to National Auto Wheels Corporation, Wausau, Wis. Resilient wheel. No. 1,307,212; June 17; v. 263; p. 433.
- Philippi, Jacob, New York, N. Y., assignor to Vesuvius Heating Corporation. Heating unit. No. 1,321,668; Nov. 11; v. 268; p. 311.
- Philippi, Theodore F., East St. Louis, Ill. Crank-driven device for machining apparatus. No. 1,309,301; July 8; v. 264; p. 267.
- Philips-Brinton Company. (See Brinton, William C., Jr., assignor.)
- Philips-Brinton Company. (See Brown, William H., assignor.)
- Philips, William D., Brooklyn, N. Y. Air-washing apparatus. No. 1,296,315; Mar. 4; v. 260; p. 113.
- Philips, Willis E., Colbran, Colo., assignor to D. H. Saville, Toronto, Canada. Camera attachment. No. 1,307,598; June 24; v. 263; p. 537.
- Philipsberg, Ignatz. (See Philipsberg, Paul and I.)
- Philipsberg, Paul and I., Brooklyn, N. Y. Seal-tag. No. 1,303,386; May 13; v. 262; p. 199.
- Philleo, George W., Leadville, Colo., assignor to American Smelting & Refining Company, Greasing device. No. 1,317,217; Sept. 30; v. 266; p. 615.
- Phillip, Leone, Redlands, Calif. Fertilizer. No. 1,322,817; Nov. 25; v. 268; p. 629.
- Phillip, Peter, Chicago, Ill. Turbine-engine. No. 1,292,038; Jan. 21; v. 258; p. 540.



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- Philippi, Frank A. (See Evans and Philippi.)  
 Phillips, Andrew J., Washington, D. C. Reclining-chair. No. 1,302,212; Apr. 29; v. 261; p. 884.  
 Phillips, Augusta, Brooklyn, N. Y. Shoe-tongue pad. No. 1,309,958; July 15; v. 264; p. 426.  
 Phillips, Byron B., Hudson, N. Y. Ice-conveyer. No. 1,292,039; Jan. 21; v. 258; p. 540.  
 Phillips, Byron B., and M. Gifford, assignors to Gifford-Wood Company, Hudson, N. Y. Ice-sawing machine. No. 1,292,040; Jan. 21; v. 258; p. 541.  
 Phillips, Byron B., and M. Gifford, assignors to Gifford-Wood Company, Hudson, N. Y. Ice-sawing machine. No. 1,292,041; Jan. 21; v. 258; p. 541.  
 Phillips, Charles F., St. Paul, Minn. Collar-edging machine. No. 1,324,169; Dec. 9; v. 269; p. 222.  
 Phillips, Edmund M. (See London and Phillips.)  
 Phillips, Edward J., Milwaukee, Wis. Attrition feed-mill. No. 1,325,413; Dec. 16; v. 269; p. 518.  
 Phillips, Edward W., Delta, Ohio. Safety tire-tester. No. 1,323,909; Dec. 2; v. 269; p. 129.  
 Phillips, Elbert B., Euclid, Ohio. Vehicle-spring. No. 1,314,979; Sept. 2; v. 266; p. 93.  
 Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Door-locking device. No. 1,317,820; Oct. 7; v. 267; p. 30.  
 Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Overhead-trolley bracket and end closure therefor. No. 1,318,691; Oct. 14; v. 267; p. 258.  
 Phillips, Elwood C., assignor of one-half to J. A. Fitzpatrick, Chicago, Ill. Applying caps to receptacles. No. 1,316,253; Sept. 16; v. 266; p. 349.  
 Phillips, Eugene N., San Antonio, Tex., and H. H. Dick, Lincoln, Ill., assignors to American Steam Boiler Cleaner Company. Boiler skimmer or cleaner. No. 1,315,574; Sept. 9; v. 266; p. 210.  
 Phillips, Eugene N., San Antonio, Tex., and H. H. Dick, Chicago, Ill., assignors to American Steam Boiler Cleaner Co., San Antonio, Tex. Boiler-skimmer. No. 1,318,912; Oct. 14; v. 267; p. 300.  
 Phillips, Frederick. (See Bauwell and Phillips.)  
 Phillips, George E., assignor, by mesne assignments, to O. Bernz, Newark, N. J. Carburetor. No. 1,321,471; Nov. 11; v. 268; p. 274.  
 Phillips, George H., Muskegon, Mich. Carrier attachment for auto running-boards. No. 1,295,923; Mar. 4; v. 260; p. 23.  
 Phillips, George T., Jr., Baltimore, Md. Flight-control means for bombs. No. 1,324,433; Dec. 9; v. 269; p. 273.  
 Phillips, Gordon, Cobalt, Ontario, Canada. Air-compressor. No. 1,314,360; Aug. 26; v. 265; p. 559.  
 Phillips, Gordon, Cobalt, Ontario, Canada. Water-head-producing device. No. 1,314,361; Aug. 26; v. 265; p. 559.  
 Phillips, Harold F. (See Fries and Phillips.)  
 Phillips, Henry F., and H. V. Dean, Spokane, Wash. Heater for water-cooled engines. No. 1,298,254; Mar. 25; v. 260; p. 627.  
 Phillips, Henry H., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Commutator-terminals and mounting same. No. 1,297,903; Mar. 18; v. 260; p. 526.  
 Phillips, Howard, Detroit, Mich. Elevator-gate shoe. No. 1,299,220; Apr. 1; v. 261; p. 137.  
 Phillips, Howard, and J. Greenwald, Detroit, Mich. Safety-hoist. No. 1,305,931; June 3; v. 263; p. 133.  
 Phillips, Isidor, Brookline, Mass. Waterproof garment-supporter. No. 1,292,042; Jan. 21; v. 258; p. 541.  
 Phillips, James B., assignor of one-third to C. J. Kin-del, trustee, Grand Rapids, Mich. Chime-clock. No. 1,302,845; May 6; v. 262; p. 70.  
 Phillips, James E., New York, N. Y. Window-lock. No. 1,311,708; July 29; v. 264; p. 812.  
 Phillips, James L., Great Bend, N. Y. Machine for washing pulp-wood. No. 1,309,543; July 8; v. 264; p. 312.  
 Phillips, Leland A., Rochester, N. Y. Ribbon-inking machine. No. 1,316,388; Sept. 16; v. 266; p. 375.  
 Phillips, Leland A., assignor to Phillips Ribbon & Carbon Company, Rochester, N. Y. Reeling-machine. No. 1,309,367; July 8; v. 264; p. 279.  
 Phillips, Marie A., New York, N. Y. Hat. No. 1,300,644; Apr. 15; v. 261; p. 505.  
 Phillips, Noah C., and T. W. Huff, Hosston, La. Oil-drill. No. 1,304,364; May 20; v. 262; p. 418.  
 Phillips Ribbon & Carbon Company. (See Phillips, Leland A., assignor.)  
 Phillips, Walter S., Memphis, Tenn. Folding hat-box. No. 1,294,302; Feb. 11; v. 259; p. 340.  
 Phillips, Willard G., assignor to C. A. Counts, Los Angeles, Calif. Adjustable rope-tie. No. 1,300,006; Apr. 8; v. 261; p. 342.  
 Phillips, William H., Albany, Ala. Cultivator. No. 1,300,767; Apr. 15; v. 261; p. 532.  
 Phillips, William J., Brooklyn, N. Y. Bottle-holder. No. 1,325,859; Dec. 23; v. 269; p. 619.  
 Phillips, William J., Brooklyn, N. Y. Bottle-support. No. 1,325,860; Dec. 23; v. 269; p. 619.  
 Phillips, William J., assignor to A. L. Scofield, Brooklyn, N. Y. Telephone-cabinet. No. 1,299,506; Apr. 8; v. 261; p. 230.  
 Philpot, Albert D., assignor to Tomalpa Mfg. Co., Chicago, Ill. Portable projecting-machine. No. 1,310,211; July 15; v. 264; p. 471.  
 Phinney, Robert M., Chicago, and H. M. Beck, Hubbard Woods, Ill., assignors to Electric Storage Battery Company, Philadelphia, Pa. Railway signal system. No. 1,316,738; Sept. 23; v. 266; p. 496.  
 Phipps, Edward L., Detroit, Mich. Belt and fastening means therefor. No. 1,293,907; Feb. 11; v. 259; p. 247.  
 Phipps, Ira R., Mattoon, Ill. Check-row attachment for planters. No. 1,310,710; July 22; v. 264; p. 594.  
 Phipps, James A. R., Binghamton, N. Y. Milk-bottle holder. No. 1,298,559; Mar. 25; v. 260; p. 691.  
 Phipps, Joel G. (See Grabler and Phipps.)  
 Phoenix Glass Company, The. (See Fricke, Charles C., assignor.)  
 Phoenix Glass Company, The. (See Lucas, Clarence W., assignor.)  
 Phoenix-Hermetic Company. (See Tallaferrro, Thomas L., assignor.)  
 Phoenix Knitting Works. (See Thierfelder, Richard, assignor.)  
 Phonoharp Company, The. (See Audet, Francis X., assignor.)  
 Phonoharp Company, The. (See Ballard, Harrie A., assignor.)  
 Phonoharp Company, The. (See Copeland, William A., assignor.)  
 Phonoharp Company, The. (See Green, Joseph R., assignor.)  
 Phonoharp Company, The. (See Marx, Charles H., assignor.)  
 Phonoharp Company, The. (See Richter, Paul F., assignor.)  
 Phorson, Peter R. G., Sunderland, England. Holder for pneumatic hammers. No. 1,319,792; Oct. 28; v. 267; p. 516.  
 Photo Motion Company. (See Clark, Edwin W., assignor.)  
 Plagneri, Umberto, San Francisco, Calif. Lock. No. 1,319,357; Oct. 21; v. 267; p. 410.  
 Planko, Mendel, Chicago, Ill. Tire-liner. No. 1,320,708; Nov. 4; v. 268; p. 65.  
 Piasecki, Michal, assignor of one-half to A. Iwanowski, Baltimore, Md. Folding table or stand. No. 1,302,589; May 6; v. 262; p. 20.  
 Plat, Joannes, Lyon, France. Carburetor-nozzle. No. 1,310,964; July 22; v. 264; p. 641.  
 Platt, Richard F., Louisville, Ky. Internal-combustion engine. No. 1,299,774; Apr. 8; v. 261; p. 293.  
 Picard, Aldric, Oldtown, Me. Combined tea and coffee pot. No. 1,312,203; Aug. 5; v. 265; p. 66.  
 Picard, Hugh F. K. (See Sulman and Picard.)  
 Picard, René, Paris, France. Mileage and time indicator for vehicles. No. 1,312,747; Aug. 12; v. 265; p. 199.  
 Picard, Stanislas, Providence, R. I. Arbor-indicator. No. 1,297,729; Mar. 18; v. 260; p. 489.  
 Pichl, Anthony J., assignor to Western Automobile Company, St. Louis, Mo. Carburetor. No. 1,293,908; Feb. 11; v. 259; p. 247.  
 Pichot, née Derenne, Léontine, Angers, France. Trap for flies and the like. No. 1,312,573; Aug. 12; v. 265; p. 167.  
 Pichoud, Jean, New York, N. Y. Vehicle-spring. No. 1,311,913; Aug. 5; v. 265; p. 12.  
 Picker, Lucien. (See Mégevet and Picker.)  
 Pick, Hugo, assignor to Albert Pick & Company, Chicago, Ill. Beverage-shaker. No. 1,300,867; Apr. 15; v. 261; p. 553.  
 Pick, Samuel. (See Taylor, Isaac F., assignor.)  
 Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Apparatus for measuring telephone-currents. No. 1,324,465; Dec. 9; v. 269; p. 280.  
 Pickard, Harold, Whitley Bay, England. Moving stairway, switchback-slide, and amusement device. No. 1,294,701; Feb. 18; v. 259; p. 469.  
 Pickareck, Joseph H., assignor to Detroit Fuse and Manufacturing Company, Detroit, Mich. Electrical switch. No. 1,325,042; Dec. 16; v. 269; p. 449.  
 Pickel, Burgen E., Easton, Pa. Automobile-lock. No. 1,318,913; Oct. 14; v. 267; p. 300.  
 Pickens, Robert O., Spartanburg, S. C. Slasher-hood. No. 1,326,420; Dec. 30; v. 269; p. 760.  
 Pickering, Byron, Kissimmee, Fla. Toy wagon. No. 1,294,303; Feb. 11; v. 259; p. 340.  
 Pickering, Edward D., Cleveland, Ohio. Electric-light-globe holder. No. 1,293,909; Feb. 11; v. 259; p. 248.  
 Pickett, Lyman O., Binghamton, N. Y. Making tar-felt material. No. 1,321,669; Nov. 11; v. 268; p. 311.  
 Pickett, Thomas R., Huntsville, Mo. Rail-joint. No. 1,316,389; Sept. 16; v. 266; p. 375.  
 Pickford, Edward F., et al. (See Pons, Eugene, assignor.)  
 Pickford, Isaac W., assignor to G. Ford, Brooklyn, N. Y. Mail-routing case. No. 1,312,133; Aug. 5; v. 265; p. 53.  
 Pickin, Rowland O., Chicago, Ill. Spring-nut. No. 1,291,114; Jan. 14; v. 258; p. 289.  
 Pickin, Rowland O., Chicago, Ill. Roller-drill. No. 1,302,967; May 6; v. 262; p. 93.  
 Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Braintree, Conn. Grease-cup. No. 1,310,630; July 22; v. 264; p. 579.



- Pickstone, Montague T., Hampstead, assignor to The Pneumatic Loom Syndicate Limited, Birmingham, England. Reed for weaving-loom. No. 1,306,189; June 10; v. 263; p. 211.
- Pickstone, Montague T., Hampstead, assignor to The Pneumatic Loom Syndicate Limited, Birmingham, England. Picking apparatus for weaving-loom. No. 1,306,190; June 10; v. 263; p. 211.
- Pidgin, Charles F., Silver Lake, Mass. Means for showing speech in motion-pictures. No. 1,317,725; Oct. 7; v. 267; p. 12.
- Piechocki, Ludwik. (See Sokolowski, John, assignor.)
- Piechowicz, Tsofil, Union township, Union county, N. J. Clamping or holding tongs for meat-blocks. No. 1,295,790; Feb. 25; v. 259; p. 743.
- Piechowicz, Teofil, Vauxhall, N. J. Fountain-brush. No. 1,310,290; July 15; v. 264; p. 485.
- Piehl, Sven O., Stockholm, Sweden. Hatchet, wedge, and similar tool. No. 1,321,143; Nov. 11; v. 268; p. 211.
- Piel, Gottfried. (See Denison, Julian F., assignor.)
- Piel, Gottfried. (See Long, George F., assignor.)
- Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
- Pieper, Chester R., assignor to The Gund Manufacturing Company, La Crosse, Wis. Guy-strand cap. No. 1,298,255; Mar. 25; v. 260; p. 627.
- Pieper, Chester R., assignor to Gund Manufacturing Company, La Crosse, Wis. Shaft-hanger. No. 1,306,623; June 10; v. 263; p. 293.
- Pieper, John, Salt Lake City, Utah. Auto-tire-rim clamp. No. 1,320,913; Nov. 4; v. 268; p. 105.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Dental cuspidor-fixture. No. 1,300,868; Apr. 15; v. 261; p. 553.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Pressure-regulator. No. 1,304,704; May 27; v. 262; p. 521.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Switch-operating mechanism. No. 1,306,770; June 17; v. 263; p. 352.
- Pierce, Anton, Cleveland, Ohio. Door opening and closing device. No. 1,301,736; Apr. 22; v. 261; p. 763.
- Pierce, Butler & Pierce Manufacturing Corporation. (See Greeley, Earl R., assignor.)
- Pierce, C. S., et al. (See Cottrill, Kenyon, assignor.)
- Pierce, Charles W., Hartford City, Ind. Mail-bag receiving and delivering apparatus. No. 1,321,327; Nov. 11; v. 268; p. 247.
- Pierce, Edward, West Burlington, Iowa. Track-drilling machine. No. 1,294,702; Feb. 18; v. 259; p. 469.
- Pierce, Frank G. (See Propst, Charles M., assignor.)
- Pierce, Frank M. and W. B., assignors to Pierce Wrapping Machine Company, Chicago, Ill. Folder device. No. 1,296,117; Mar. 4; v. 260; p. 69.
- Pierce, Frederick K., Jersey City, N. J. Coupling. No. 1,301,737; Apr. 22; v. 261; p. 764.
- Pierce, George P., Kansas City, Mo. Silo-door. No. 1,311,357; July 29; v. 264; p. 747.
- Pierce, George W., assignor to The Pierce Governor Co., Anderson, Ind. Speed-governor. No. 1,295,199; Feb. 25; v. 259; p. 606.
- Pierce, George W., assignor to The Pierce Governor Co., Anderson, Ind. Speed-governor. No. 1,295,200; Feb. 25; v. 259; p. 607.
- Pierce Governor Co., The. (See Pierce, George W., assignor.)
- Pierce, James B., Jr., Charleston, W. Va. Producing barium oxid. No. 1,305,618; June 3; v. 263; p. 75.
- Pierce, James B., Jr., Charleston, W. Va. Manufacture of strontium peroxid. No. 1,325,043; Dec. 16; v. 269; p. 449.
- Pierce, James E., Albion, Mich. Arc-welding electrode-holder. No. 1,293,538; Feb. 4; v. 259; p. 131.
- Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Calendaring-machine. No. 1,301,599; Apr. 22; v. 261; p. 736.
- Pierce, James F., Glynrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Mandrel for use with apparatus for forming tubes. No. 1,322,944; Nov. 25; v. 268; p. 653.
- Pierce, James F., and H. H. Gordon; said Pierce assignor to C. H. Potter, trustee, Washington, D. C. Manifold-heater for internal-combustion engines. No. 1,320,344; Oct. 28; v. 267; p. 619.
- Pierce, James F., Glynrich, and H. A. Heinel, White Clay Creek Hundred, assignors to American Vulcanized Fibre Co., Wilmington, Del. Riving-machine. No. 1,301,600; Apr. 22; v. 261; p. 736.
- Pierce, John A., Walnut Grove, Mo. Rotary engine. No. 1,319,614; Oct. 21; v. 267; p. 459.
- Pierce, Orrin M. (See Frost, Robert T., assignor.)
- Pierce, Ralph E., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Secret-signaling system. No. 1,312,574; Aug. 12; v. 265; p. 167.
- Pierce, Ralph H., Eugene, Oreg. Magneto-coupling. No. 1,301,002; Apr. 15; v. 261; p. 582.
- Pierce, Raymond T., assignor to Westinghouse Electric & Manufacturing Company, Wilkesburg, Pa. Arc-extinguishing device. No. 1,308,256; July 1; v. 264; p. 45.
- Pierce, Robert C., and N. Macneale, Cincinnati, Ohio, assignors, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Electric welding. No. 1,315,239; Sept. 9; v. 266; p. 150.
- Pierce, Robert F., Collingswood, N. J., assignor, by mesne assignments, to C. M. Horter, Philadelphia, Pa. Lighting-fixture. No. 1,305,234; May 27; v. 262; p. 621.
- Pierce, Samuel H., Dayton, Ohio, assignor of one-third to W. S. Pierce, Freeport, Me., and one-third to W. D. Kemp, New York, N. Y. Insect-harvester. No. 1,292,871; Jan. 28; v. 258; p. 761.
- Pierce, W. J., administrator. (See Farthing, David J.)
- Pierce, W. J., administrator, et al. (See Reece, John E., assignor.)
- Pierce, William B. (See Pierce, Frank M. and W. B.)
- Pierce, Winfield S., et al. (See Pierce, Samuel H., assignor.)
- Pierce Wrapping Machine Company. (See Pierce, Frank M. and W. B., assignors.)
- Pierog, Marek, New Aberdeen, Nova Scotia, Canada. Antisubmarine device. No. 1,299,775; Apr. 8; v. 261; p. 293.
- Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix-holder for type-casting machines. No. 1,307,698; June 24; v. 263; p. 555.
- Pierpont, Henry E. (See Bloombuff, Ralph V. and C. F., assignors.)
- Piers, Eber F., Ogden, Utah. Air-brake. No. 1,323,093; Nov. 25; v. 268; p. 681.
- Piers, Eber F., Ogden, Utah. Circuit-closer. No. 1,323,094; Nov. 25; v. 268; p. 681.
- Pierson, Frode H., New Haven, Conn. Ratchet-drill. No. 1,315,638; Sept. 9; v. 266; p. 221.
- Pierson, Louis B., Springfield, Mass. Machine for handling address-cards. No. 1,325,576; Dec. 23; v. 269; p. 566.
- Pierson, Louis B., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Trimming device. No. 1,325,908; Dec. 23; v. 269; p. 627.
- Pierson, Ludwig B., Bishop, Tex. Unloading and feeding apparatus. No. 1,318,914; Oct. 14; v. 267; p. 300.
- Pierson, Paul M. (See Hochstetter, Frederick W., assignor.)
- Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hydrometer-syringe. No. 1,296,694; Mar. 11; v. 260; p. 234.
- Pierzchalski, Michael, New York, N. Y. Decarbonizer and gas-saver for internal-combustion engines. No. 1,318,915; Oct. 14; v. 267; p. 301.
- Pies, John and S., Orangeburg, N. Y. Magnetic protector for ships. No. 1,293,539; Feb. 4; v. 259; p. 131.
- Pies, Sophie. (See Pies, John and S.)
- Plessens, Henry, Philadelphia, Pa. Arch-support for shoes and making the same. No. 1,299,221; Apr. 1; v. 261; p. 187.
- Pieters, Julien, Paris, France. Charging apparatus for continuous vertical ovens, more particularly coke and gas ovens. No. 1,308,641; July 1; v. 264; p. 116.
- Pietruszkiewicz, Jan, Kulpmont, Pa. Portable trench. No. 1,297,904; Mar. 18; v. 260; p. 526.
- Piette, Joseph, St.-Gilles, Brussels, Belgium. Regenerator for coke-ovens. No. 1,294,828; Feb. 18; v. 259; p. 499.
- Piette, Joseph, St.-Gilles, Brussels, Belgium. Distilling apparatus. No. 1,297,590; Mar. 18; v. 260; p. 458.
- Piette, Olivier, assignor to Société Franco-Belge de Four à Coke, Brussels, Belgium. Semidirect process of treating coke-oven gas. No. 1,315,639; Sept. 9; v. 266; p. 221.
- Pietzuch, Joseph, Cincinnati, Ohio. Shoe-heel cushion. No. 1,295,201; Feb. 25; v. 259; p. 607.
- Pietzuch, Joseph, Cincinnati, Ohio. Protecting-plate for shoes. No. 1,319,793; Oct. 28; v. 267; p. 516.
- Pietzuch, Joseph, Cincinnati, Ohio. Foot-measuring scale. No. 1,324,267; Dec. 9; v. 269; p. 241.
- Piez, Charles, assignor to Link-Belt Company, Chicago, Ill. Conveyor-belt drive. No. 1,319,109; Oct. 21; v. 267; p. 362.
- Pifer, John H., Larimore, N. D. Brake-pedal. No. 1,300,768; Apr. 15; v. 261; p. 532.
- Pifer, John H., Larimore, N. D. Four-wheel-drive truck. No. 1,314,093; Aug. 26; v. 265; p. 507.
- Pigeon, Albert M., assignor to Wildman Mfg. Co., Norristown, Pa. Knitting-machine. No. 1,321,472; Nov. 11; v. 268; p. 274.
- Piggly Wiggly Corporation. (See Saunders, Clarence, assignor.)
- Pihlfeldt, Thomas G., and F. C. Hartung, Chicago, Ill. Oil-cup. No. 1,305,005; May 27; v. 262; p. 577.
- Pijakowski, Walter. (See Majkowski, Frank, assignor.)
- Pike, Floyd. (See Potter, De Long, and Pike.)
- Pike, Lewis C., Zellwood, Fla. Lubricating device. No. 1,322,611; Nov. 25; v. 268; p. 591.
- Pike, Lorenzo H., assignor to Electric Service Supplies Company, Philadelphia, Pa. Suspension-clamp for trolley-wires. No. 1,322,945; Nov. 25; v. 268; p. 653.
- Pike, Robert D., San Francisco, Calif. Manufacturing magnesite refractories. No. 1,312,871; Aug. 12; v. 265; p. 224.
- Pilcher, Benjamin R. (See Robb, Fred D., assignor.)
- Pilcher, John A. (See Kadel, Pilcher, Persinger, and Reynolds.)
- Pilcher, John A., Roanoke, Va. Car-truck side frame. No. 1,308,192; July 1; v. 264; p. 34.



## Alphabetical list of patentees—Continued.

- Pilger, Joseph J., Covington, Ky. Candy-box. No. 1,293,910; Feb. 11; v. 259; p. 248.
- Pilgrim Clock Company. (See Metz, John P., assignor.)
- Pilkington, Joseph H., Waterbury, Conn. Snap-fastener. No. 1,325,577; Dec. 23; v. 269; p. 566.
- Pilkington, Robert G., Chicago, Ill. Sheet-metal construction. No. 1,295,368; Feb. 25; v. 259; p. 644.
- Piller, William F., Dalton, Nbr. Screen attachment. No. 1,306,715; June 17; v. 263; p. 343.
- Pilley, Frank, Kansas City, Mo. Valve mechanism. No. 1,299,507; Apr. 8; v. 261; p. 231.
- Pilley, Frank, Kansas City, Mo. Can cleaning and turning device. No. 1,299,927; Apr. 8; v. 261; p. 326.
- Pillsbury, Edwin S. (See Russell and Pillsbury.)
- Pilorz, Bruno, and R. O. Stange, Honolulu, Hawaii; said Pilorz assignor to said Stange. Drying bananas. No. 1,313,557; Aug. 19; v. 265; p. 372.
- Pilusczak, Joseph, Rochester, N. Y. Bicycle-sled. No. 1,291,115; Jan. 14; v. 258; p. 289.
- Pilusczak, Joseph, Rochester, N. Y. Carousel. No. 1,325,374; Dec. 16; v. 269; p. 511.
- Pimlott, Peter. (See Olsen and Pimlott.)
- Pinkney, William A., and S. D. Hurd, Stanton, Mich. Antiskid device. No. 1,291,116; Jan. 14; v. 258; p. 289.
- Pinder, S. S., et al. (See Krzyzanowski, Theodore R., assignor.)
- Pindstoft, Anders A., Frederiksberg, near Copenhagen, Denmark. Apparatus for impregnating liquids with carbonic-acid or other gases. No. 1,314,148; Aug. 26; v. 265; p. 518.
- Pine Hill Crystal Spring Water Company. (See Cooper, Simon, assignor.)
- Pine-Ihrig Machine Company. (See Pine, Wilber J., assignor.)
- Pine, James K. P., Lansingburg, assignor to United Shirt and Collar Company, Troy, N. Y. Stock for neckwear. No. 1,297,398; Mar. 18; v. 260; p. 419.
- Pine, James K. P., assignor to United Shirt and Collar Company, Troy, N. Y. Union-undergarment. No. 1,306,771; June 17; v. 263; p. 353.
- Pine, James K. P., assignor to United Shirt and Collar Company, Troy, N. Y. Union-undergarment. No. 1,307,416; June 24; v. 263; p. 503.
- Pine, Wilber J., assignor to Pine-Ihrig Machine Company, Oshkosh, Wis. Wire-fabric machine. No. 1,293,540; Feb. 4; v. 259; p. 131.
- Pines, Wilson, Rogers, Mich. Finger for graders. No. 1,290,339; Jan. 7; v. 258; p. 79.
- Pinet, Albert, and A. Debout, Paris, France. Apparatus for the distillation of coal. No. 1,312,352; Aug. 5; v. 265; p. 92.
- Pinger, Leo, Fallon, Nev., assignor of one-half to Z. Kendall, San Francisco, Calif. Roller-grizzly. No. 1,313,011; Aug. 12; v. 265; p. 252.
- Pinion, Walter S., Philadelphia, Pa. Submarine. No. 1,317,033; Sept. 23; v. 266; p. 544.
- Pinkler, Arthur E., Ridgefield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-transmitter. No. 1,297,905; Mar. 18; v. 260; p. 527.
- Pinkney, Bryan D., Cincinnati, Ohio, assignor to Jaburg Bros., New York, N. Y. Mechanical movement for dough-handling machines. No. 1,310,711; July 22; v. 264; p. 594.
- Pinneo, Charles F., Detroit, Mich. Spark-plug indicator. No. 1,306,231; June 10; v. 263; p. 220.
- Pinte, William. (See Bueschel, Andrew E., assignor.)
- Pinter, Anton, Philadelphia, Pa. Knockdown foldable boat. No. 1,314,899; Sept. 2; v. 266; p. 79.
- Pintsker, Abraham, Los Angeles, Calif. Building-block construction. No. 1,322,827; Nov. 25; v. 268; p. 630.
- Pipe, Edward H., St. Louis, Mo. Machine for molding composition blocks. No. 1,300,645; Apr. 15; v. 261; p. 505.
- Pipe, Edward H., assignor to Acme Cement Plaster Company, St. Louis, Mo. Form for building-blocks. No. 1,314,018; Aug. 26; v. 265; p. 493.
- Piper, Charles A., East Wilmington, Cal., assignor to The Diamond Match Company, Chicago, Ill. Apparatus for measuring the relative hardness of match-tips. No. 1,293,189; Feb. 4; v. 259; p. 50.
- Piper, Walter F. (See Beardsley and Piper.)
- Pipkin, Samuel W., Claud, N. Mex. Tractor-drive. No. 1,293,541; Feb. 4; v. 259; p. 132.
- Pippin, John W., Oklahoma, Okla. Rotary drilling-tool. No. 1,290,340; Jan. 7; v. 258; p. 79.
- Pippin, John W., assignor to Pippin Manufacturing company, Oklahoma, Okla. Underreamer. No. 1,322,337; Nov. 18; v. 268; p. 487.
- Pippin Manufacturing Company. (See Pippin, John W., assignor.)
- Pippin, William R., Paris, Tex. Liquid-indicator for tanks. No. 1,311,244; July 29; v. 264; p. 725.
- Pirc, Georg. (See Borsse and Pirc.)
- Piriot, Freddie, Wilson, Mich. Plow. No. 1,324,691; Dec. 9; v. 269; p. 322.
- Pirrag, Jan. Passaic, N. J. Aerial bomb. No. 1,293,542; Feb. 4; v. 259; p. 132.
- Piron, Emile, New York, N. Y. Oven-heating system. No. 1,306,023; June 10; v. 263; p. 179.
- Piron, Emile, New York, N. Y. Extracting ammonia. No. 1,324,979; Dec. 16; v. 269; p. 438.
- Pirro, Paul, New York, N. Y. Clutch. No. 1,324,466; Dec. 9; v. 269; p. 280.
- Pirtle, Claiborne C., Denison, Tex. Heater. No. 1,304,596; May 27; v. 262; p. 501.
- Pirtle, Homer P., Walters, Okla. Patch for tire-casings. No. 1,300,769; Apr. 15; v. 261; p. 532.
- Pirtle, Joseph D., Chicago, Ill. Waste-making machine. No. 1,319,486; Oct. 21; v. 267; p. 435.
- Pirwitz, Friedrich A. G., Rochester, N. Y. Photographic camera. No. 1,317,034; Sept. 23; v. 266; p. 544.
- Pirwitz, Friedrich A. G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 1,307,751; June 24; v. 263; p. 564.
- Pisani, William H., assignor to M. J. Brandenstein & Co., San Francisco, Cal. Perforating and solder and flux feeding machine. No. 1,290,341; Jan. 7; v. 258; p. 80.
- Piscek, Joseph I., et al. (See Krizek, Joseph, assignor.)
- Piston Ring Company. (See Lancaster, Frederick W., assignor.) (Reissue.)
- Pistorio, Domingo A., Washington, D. C. Projectile. No. 1,291,117; Jan. 14; v. 258; p. 289.
- Pistorio, Domingo A., Washington, D. C. Fuse. No. 1,321,328; Nov. 11; v. 268; p. 247.
- Piszczor, Joseph, Brainerd, Minn. Car construction. No. 1,312,134; Aug. 5; v. 265; p. 53.
- Pitch-Lined Cement Casket Co. (See Stamm, Charles H., assignor.)
- Pitcher, Elmer, assignor to Liberty Tractor Company, Minneapolis, Minn. Tractor. No. 1,322,049; Nov. 18; v. 268; p. 433.
- Pitcher, Hugh B., Boonton, N. J. Attachment for shower-baths. No. 1,295,369; Feb. 25; v. 259; p. 645.
- Pitcher, Hugh B., Boonton, N. J., assignor to Curtainless Shower Company, New York, N. Y. Closure for shower-bath attachments. No. 1,316,739; Sept. 23; v. 266; p. 491.
- Pitlick, Paul T., Okobojo, S. D. Holder for straining-funnels. No. 1,302,086; Apr. 29; v. 261; p. 861.
- Pitman, Frederick L., Spokane, Wash. Roadway. No. 1,316,182; Sept. 16; v. 266; p. 336.
- Pitman, Henry L., Brooklyn, N. Y. Motion-controlling device. No. 1,318,916; Oct. 14; v. 267; p. 301.
- Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,308,506; July 1; v. 264; p. 91.
- Pitt, Henry H., Lesbury, England. Machine for fire-fishing tumblers and other glass articles. No. 1,307,453; June 24; v. 263; p. 511.
- Pitt, William P., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Bookbinding. No. 1,299,776; Apr. 8; v. 261; p. 293.
- Pitter, Walter C., London, England. Machine for grinding and lapping slip and gap gages and the like. No. 1,316,506; Sept. 16; v. 266; p. 398.
- Pittman, Clovis C. (See Midboe and Pittman.)
- Pittman, Clovis C., New York, and G. Midboe, Brooklyn, assignors to R. P. Lydon, New York, N. Y. Connecting-rod. No. 1,307,454; June 24; v. 263; p. 511.
- Pittman, Henry C. (See Pittman, Reinhart W., assignor.)
- Pittman, James E., Nederland, Colo. Handle. No. 1,294,304; Feb. 11; v. 259; p. 341.
- Pittman, Reinhart W., New York, N. Y., assignor, by mesne assignments, to H. C. Pittman, Hackensack, N. J. Saw-blade. No. 1,321,391; Nov. 11; v. 268; p. 259.
- Pitton, James G., Chicago, Ill. Safety-razor. No. 1,321,549; Nov. 11; v. 268; p. 289.
- Pitts, George B., Cleveland, assignor, by mesne assignments, to The Miller Pasteurizing Machine Company, Canton, Ohio. Pasteurizing apparatus. No. 1,300,869; Apr. 15; v. 261; p. 553.
- Pitts, Lewis, Dahinda, Ill. Grade-crossing. No. 1,325,169; Dec. 16; v. 269; p. 473.
- Pitts, Virginia, Denver, Colo. Copy-holder. No. 1,305,305; June 3; v. 263; p. 14.
- Pitts, William H., Medicine Lodge, Kans. Safety attachment for air-hose nozzles. No. 1,322,338; Nov. 18; v. 268; p. 487.
- Pittsburg Plate Glass Company, The. (See Sekinger, John G., assignor.)
- Pittsburg Water Heater Company. (See Backstrom, Charles A., assignor.)
- Pittsburgh Coal Washer Company. (See Kenney, Carl L., assignor.)
- Pittsburgh Engineering Works. (See Moore, William E., assignor.)
- Pittsburgh Filter & Engineering Company. (See Leopold, Frederick B., assignor.)
- Pittsburgh Meter Company. (See Chrisman, Horace, assignor.)
- Pittsburgh Plate Glass Company. (See Bechtel, John A., assignor.)
- Pittsburgh Plate Glass Company. (See Cannon, Dominic F., assignor.)
- Pittsburgh Plate Glass Company. (See Clause, William L., assignor.)
- Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)



- Pittsburgh Plate Glass Company. (See Hitchcock and Golightly, assignors.)
- Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)
- Pittsburgh Plate Glass Company. (See Pease, Roger S., assignor.)
- Pittsburgh Plate Glass Company. (See Rehm, Benjamin, assignor.)
- Pittsburgh Rolls Corporation. (See McMillin, Oliver B., assignor.)
- Pittsburgh Steel Company. (See Rose and Kurtz, assignors.)
- Pittsburgh Steel Products Company. (See Bindley, Albion, assignor.)
- Pittsburgh Steel Products Company. (See Wikstrom, Malcolm U., assignor.)
- Pittsburgh Testing Laboratory. (See Handy, James O., assignor.)
- Pittsfield Spark Coil Company. (See Shaw, Albert P., assignor.)
- Piver, William C. (See Riches and Piver.)
- Place, Josiah W., Brooklyn, assignor to United States Gauge Company, New York, N. Y. Pressure-gage. No. 1,315,327; Sept. 9; v. 266; p. 166.
- Place, Roland P. (See Hoy and Place.)
- Placek, Antonin, assignor to The Vlcek Tool Co., Cleveland, Ohio. Work-holding device. No. 1,324,269; Dec. 9; v. 269; p. 241.
- Placey, Harvey H., Monroe, N. H. Aerial bomb. No. 1,294,156; Feb. 11; v. 259; p. 306.
- Plaisance, Gerald P., assignor to Ralston Purina Company, St. Louis, Mo. Means for preventing formation of mold. No. 1,311,709; July 29; v. 264; p. 812.
- Plaisance, Gerald P., assignor to Ralston Purina Company, St. Louis, Mo. Means for preventing formation of mold. No. 1,318,174; Oct. 7; v. 267; p. 98.
- Plaisted, Harold M., Granite City, Ill. Rotary hammer. No. 1,301,316; Apr. 22; v. 261; p. 683.
- Plaisted, Harold M., Granite City, Ill. Reducing-machine. No. 1,306,772; June 17; v. 263; p. 353.
- Plaisted, Harold M., St. Louis, Mo. Pneumatic separator. No. 1,311,358; July 29; v. 264; p. 747.
- Plaisted, Harold M., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Reducing-mill. No. 1,322,339; Nov. 18; v. 268; p. 487.
- Planche, Etienne, Flint, Mich. Tire-carrier. No. 1,311,993; Aug. 5; v. 265; p. 26.
- Planche, Léon, Paris, assignor to L. C. Mauger, Rouen, France. Letter-card and the like having an opening device. No. 1,299,021; Apr. 1; v. 261; p. 93.
- Planchenault, Alexandre G., Coytesville, N. J., assignor to National Clasp Co. Inc., New York, N. Y. Clasp. No. 1,308,446; July 1; v. 264; p. 80.
- Plancher, Lillian, New York, assignor to M. Finstone, Brooklyn, N. Y. Fountain-pen. No. 1,301,317; Apr. 22; v. 261; p. 684.
- Plank, Martin M., Gothenburg, Nebr. Adjustable support for grain-conveyers of threshing-machines. No. 1,318,585; Oct. 14; v. 267; p. 238.
- Plank, Pryor L., Enterprise, Oreg. Safety snap-hook. No. 1,293,543; Feb. 4; v. 259; p. 132.
- Plant, Henry J., assignor to Defiance Check Writer Corporation, Rochester, N. Y. Printing-machine. No. 1,300,007; Apr. 8; v. 261; p. 342.
- Plant, Herbert, Bury, near Manchester, England. Doctor for couch and like rolls of paper-making machines. No. 1,317,100; Sept. 23; v. 266; p. 557.
- Plante, Joseph A., San Francisco, Calif. Adjustable lock-strike. No. 1,317,218; Sept. 30; v. 266; p. 615.
- Plantinga, Peter, assignor to Davis Machine Tool Co., Inc., Rochester, N. Y. Relieving attachment for lathes. No. 1,291,118; Jan. 14; v. 258; p. 290.
- Plantinga, Pierre, Cleveland, Ohio. Coke-oven. No. 1,292,369; Jan. 21; v. 258; p. 620.
- Plantinga, Pierre, Cleveland, Ohio. Coke-oven. No. 1,304,597; May 27; v. 262; p. 501.
- Plants, James R., Claysville, Pa. Screen-door latch. No. 1,293,911; Feb. 11; v. 259; p. 248.
- Plasclavotie, Sidney, Holyoke, Colo. Combined refrigerator and dispensing apparatus. No. 1,290,342; Jan. 7; v. 258; p. 80.
- Plasclavotie, Sidney, Denver, Colo. Spoon attachment. No. 1,300,008; Apr. 8; v. 261; p. 343.
- Plasket, Carl, Faribault, Minn. Battery-steamer. No. 1,325,861; Dec. 23; v. 269; p. 619.
- Plass, Robert H., Upper Montclair, N. J. Web-printing device. No. 1,305,235; May 27; v. 262; p. 621.
- Plass, Robert H., Upper Montclair, N. J., assignor to The Riegel Sack Company, New York, N. Y. Web-printing device. No. 1,301,969; Apr. 29; v. 261; p. 839.
- Plater, Le Roy C. (See Stout and Plater.)
- Platt, Clarence D., Bridgeport, Conn. Switch-handle. No. 1,305,158; May 27; v. 262; p. 606.
- Platt, Clarence D., Bridgeport, Conn. Entrance-switch unit. No. 1,306,191; June 10; v. 263; p. 211.
- Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,309,153; July 8; v. 264; p. 240.
- Platt, Clarence D., Bridgeport, Conn. Electric-switch member. (Reissue.) No. 14,689; July 15; v. 264; p. 507.
- Platt, Clarence D., Bridgeport, Conn. Electric-switch member. (Reissue.) No. 14,690; July 15; v. 264; p. 507.
- Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,317,821; Oct. 7; v. 267; p. 31.
- Platt, Clarence D., Bridgeport, Conn. Panel-board. No. 1,321,144; Nov. 11; v. 268; p. 211.
- Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,321,244; Nov. 11; v. 268; p. 231.
- Platt, Clarence D., Bridgeport, Conn. Inclosed switch. No. 1,322,818; Nov. 25; v. 268; p. 629.
- Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 1,323,407; Dec. 2; v. 269; p. 35.
- Platt, Frank L., G. N. Hein, and R. R. Impey, San Francisco, Calif. Hypodermic-syringe needle and base. No. 1,318,586; Oct. 14; v. 267; p. 238.
- Platt, Frank L., G. N. Hein, and R. R. Impey, San Francisco, Calif. Syringe-applicator. No. 1,321,550; Nov. 11; v. 268; p. 289.
- Plattner, David E., assignor of one-half to R. L. Higgins, Bradford, Pa. Window-shade holder. No. 1,317,318; Sept. 30; v. 266; p. 633.
- Plauschinat, Alfred E. (See Menin and Plauschinat.)
- Player, Ralph, Birmingham, and W. Bayliss, Tipton, England. Anchor. No. 1,316,593; Sept. 23; v. 266; p. 463.
- Plaster, Henry W., Westfield, N. J., assignor to H. B. Newhall; H. B. Newhall, Jr., executor. Bolt-anchor. No. 1,291,119; Jan. 14; v. 258; p. 290.
- Plaster, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Casting patterns and match-plates. No. 1,291,120; Jan. 14; v. 258; p. 290.
- Plaster, Henry W., Westfield, N. J., assignor to H. B. Newhall; H. B. Newhall, Jr., executor. Rail-tie expansion. No. 1,295,589; Feb. 25; v. 259; p. 697.
- Plaster, Henry W., Westfield, N. J., assignor to H. B. Newhall; H. B. Newhall, Jr., executor. Rail-tie expansion. No. 1,295,590; Feb. 25; v. 259; p. 697.
- Plaster, Henry W., Westfield, N. J., assignor to H. B. Newhall. Railing-base. No. 1,302,588; May 6; v. 262; p. 20.
- Plaster, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Conduit and cable clamp. No. 1,313,113; Aug. 12; v. 265; p. 272.
- Plaster, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Concrete-insert. No. 1,324,846; Dec. 16; v. 269; p. 413.
- Plencner, John W., Warren, Minn. Clip-passer. No. 1,297,007; Mar. 11; v. 260; p. 306.
- Plescia, Joe. (See Hutchinson, William F., Sr., assignor.)
- Pletscher, Carl, and L. C. Reese, assignors to Werner & Pfeiderer Company, Saginaw, Mich. Masticator. No. 1,324,170; Dec. 9; v. 269; p. 223.
- Pletts, John S., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Apparatus for wireless telegraphy. No. 1,291,121; Jan. 14; v. 258; p. 290.
- Pletz, Arthur C., Cincinnati, Ohio. Drilling and tapping machine. No. 1,307,831; June 24; v. 263; p. 579.
- Ploeger, Ernst A. (See Penrose and Ploeger.)
- Plouffe, Adélaide, Woonsocket, R. I. Crutch-handle. No. 1,303,721; May 13; v. 262; p. 260.
- Plowman, Walter W. (See Feldenheimer and Plowman.)
- Plowman, William W., Camargo, Ill. Metallic tie. No. 1,296,425; Mar. 4; v. 260; p. 136.
- Pluchinsky, Jimmy, J. Novobilskie, and P. Dziga, Passaic, N. J. Horn-lock. No. 1,320,171; Oct. 28; v. 267; p. 587.
- Plumb, Roy A., Detroit, Mich. Composite tapered shingle making. No. 1,315,575; Sept. 9; v. 266; p. 211.
- Plumer, Davenport, Three Tuns, Pa. Roller attachment for gang-plows. No. 1,298,385; Mar. 25; v. 260; p. 653.
- Plumer, James T., Pontiac, Mich. Sprayer. No. 1,299,380; Apr. 1; v. 261; p. 173.
- Plumley, Gardner L., New York, N. Y., assignor of one-half to G. H. Payson, Englewood, N. J. Calculating-machine. No. 1,323,548; Dec. 2; v. 269; p. 62.
- Plummer, Henry W., Augusta, Me. Tourniquet. No. 1,299,860; Apr. 8; v. 261; p. 312.
- Plummer, Henry W., Augusta, Me. Tourniquet. No. 1,322,050; Nov. 18; v. 268; p. 433.
- Plunkett, Bernice B. (See Plunkett, William H., assignor.)
- Plunkett, Edward H., Gebo, Wyo. Plasterer's float. No. 1,298,386; Mar. 25; v. 260; p. 653.
- Plunkett, Thomas, Westerly, R. I. Saw-frame. No. 1,305,159; May 27; v. 262; p. 606.
- Plunkett, William H., Richmond Hill, N. Y. Shock-absorber. No. 1,301,003; Apr. 15; v. 261; p. 582.
- Plunkett, William H., assignor to B. R. Plunkett, Richmond Hill, N. Y. Spark-plug. No. 1,291,122; Jan. 14; v. 258; p. 290.
- Plush, Abram L., Philadelphia, Pa. Receptacle for fire-escapes. No. 1,300,870; Apr. 15; v. 261; p. 553.
- Plym, Francis J., Niles, Mich. Threshold. No. 1,320,494; Nov. 4; v. 268; p. 26.
- Plym, Francis J., and I. G. Barclay, assignors to Kawneer Manufacturing Company, Niles, Mich. Store-front construction. No. 1,299,508; Apr. 8; v. 261; p. 257.
- Plymale, Sebastian, Portland, Oreg. Spar-forming machine. No. 1,307,699; June 24; v. 263; p. 553.
- Plymouth Rubber Company. (See Batterman, John, assignor.)
- Pneumatic Concrete Machinery Company. (See Weaver, Charles R., assignor.)
- Pneumatic Loom Syndicate Limited. (See Pickstone, Montague T., assignor.)



## Alphabetical list of patentees—Continued.

- Pneumatic Process Flotation Company. (See Flinn, Frederick B., assignor.)  
Pneumatic Process Flotation Company. (See Towne and Flinn, assignors.)  
Pneumatic Scale Corporation. (See Doble, William H., assignor.)  
Pneumatic Scale Corporation. (See Field, Samuel B., assignor.)  
Pneumatic Universal Tool Company. (See Davidson, Arthur C., assignor.)  
Poage, Edward E. (See Rosenstengel and Poage.)  
Pocock, Augustine J. (See Pocock, Robert W. and A. J.)  
Pocock, Ernest W., Winnipeg, Manitoba, Canada, assignor to J. I. Case Threshing Machine Company, Racine, Wis. Tractor-controlling device. No. 1,326,369; Dec. 30; v. 269; p. 750.  
Pocock, Francis A., Philadelphia, assignor to W. S. Russell, trustee, Carlisle, Pa. Battery-grid. No. 1,323,720; Dec. 2; v. 269; p. 93.  
Pocock, Francis A., Philadelphia, assignor to W. S. Russell, trustee, Carlisle, Pa. Storage battery. No. 1,323,721; Dec. 2; v. 269; p. 93.  
Pocock, Frank, Salt Lake City, assignor of one-fourth to W. Steadman, Sandy, and one-fourth to G. E. and S. A. Schaus, Tooele, Utah. Beet-harvester. No. 1,295,591; Feb. 25; v. 259; p. 697.  
Pocock, George Y., assignor to Boling Airplane Co., Seattle, Wash. Form or mold for making pontoons. No. 1,295,202; Feb. 25; v. 259; p. 607.  
Pocock, George Y., assignor to Boling Airplane Co., Seattle, Wash. Form or mold for making pontoons. No. 1,295,203; Feb. 25; v. 259; p. 607.  
Pocock, Robert W. and A. J., Dayton, Ohio. Valve and sealing same. No. 1,292,962; Jan. 28; v. 258; p. 782.  
Pocock, Sidney J., Esher, England. Child's combined rotary chair and play-table. No. 1,313,330; Aug. 19; v. 265; p. 329.  
Podmore, William, Porthill, Stoke-upon-Trent, assignor of one-half to H. L. Doulton, London, England. Lathe. No. 1,309,046; July 8; v. 264; p. 220.  
Podolsky, Boris, Los Angeles, Calif. Apparatus for starting heaters. No. 1,326,137; Dec. 23; v. 269; p. 670.  
Podsenick, Edward, Brooklyn, N. Y. Rheostat. No. 1,300,483; Apr. 15; v. 261; p. 478.  
Podufaly, Joseph, Detroit, Mich. Automobile-lock. No. 1,308,298; July 1; v. 264; p. 53.  
Podzeamski, Mike J., Milwaukee, Wis. Rotary baking-oven. No. 1,318,460; Oct. 14; v. 267; p. 214.  
Poehlmann, Andrew T., Catonsville, Md. Towing device. No. 1,294,944; Feb. 18; v. 259; p. 525.  
Poeton, Lawrence, assignor to American Optical Company, Southbridge, Mass. Temple. No. 1,306,773; June 17; v. 263; p. 353.  
Poetzsch, Max, Clifton, N. J. Burling or examining machine. No. 1,313,012; Aug. 12; v. 265; p. 252.  
Poetzsch, Max, Clifton, N. J. Automatic feeder. No. 1,325,373; Dec. 16; v. 269; p. 511.  
Poffinbarger, Henry, Pontiac, Mich. Machine for bending leaf-springs. No. 1,312,268; Aug. 5; v. 265; p. 77.  
Poggel, George E., Louisville, Ky. Process and apparatus for seasoning and rectifying paper-stock. No. 1,325,044; Dec. 16; v. 269; p. 449.  
Pogolski, Nicolas, Washington, D. C. Means for preventing the disastrous consequences of the accidental ignition of the gasoline of aircrafts' tanks. No. 1,300,190; Apr. 8; v. 261; p. 383.  
Pogonowski, Alexander, Randwick, near Sydney, assignor to Heiron and Smith Limited, Sydney, New South Wales, Australia. Horn for talking-machines. No. 1,314,980; Sept. 2; v. 266; p. 93.  
Pogue, George D., St. Louis, Mo. Pressure-producing apparatus. No. 1,290,662; Jan. 7; v. 258; p. 157.  
Pogue, George D., St. Louis, Mo. Fuel-pump for internal-combustion engines. No. 1,293,192; Feb. 4; v. 259; p. 50.  
Pogue, George D., St. Louis, Mo. Recording apparatus. No. 1,300,191; Apr. 8; v. 261; p. 383.  
Pogue, George D., St. Louis, Mo. Multiple-feed lubricating system. No. 1,301,044; Apr. 15; v. 261; p. 582.  
Pogue, George D., St. Louis, Mo. Indicator for shaft-bearings. No. 1,303,387; May 13; v. 262; p. 199.  
Pogue, Robert H., Erie, Pa. Power attachment for automobiles. No. 1,291,123; Jan. 14; v. 258; p. 291.  
Pohl, Charles, Los Angeles, Calif. Automobile-lock. No. 1,301,498; Apr. 22; v. 261; p. 718.  
Pohl, Charles, assignor to Globe Manufacturing Company, Los Angeles, Calif. Engine-starter. No. 1,302,213; Apr. 29; v. 261; p. 884.  
Poignand, Francis N., Rutherford, N. J., assignor to Locomotive Superheater Company, New York, N. Y. Superheater unit. No. 1,304,091; May 20; v. 262; p. 366.  
Poillon, George W., Tarrytown, N. Y. Micrometer-calipers. No. 1,312,643; Aug. 12; v. 265; p. 180.  
Polindexter, George B., Seattle, Wash. Burglar-alarm for motor-vehicles. No. 1,318,299; Oct. 7; v. 267; p. 122.  
Polier, Alfred O. (See Malboit and Poirier.)  
Pokopac, Jackp. (See Pokopac, Stephen and J.)  
Pokopac, Stephen and J., Greensburg, Pa. Pipe-cleaner. No. 1,306,925; June 17; v. 263; p. 381.  
Pokorny, Frank, Jr. (See Donovan and Pokorny.)  
Pokorny, Joseph, assignor to May Department Stores Company, St. Louis, Mo. Window-awning. No. 1,314,362; Aug. 26; v. 265; p. 559.  
Polan Katz & Co. (See Levin, Joseph, assignor.)  
Poland, Edward F., Boston, Mass. Ironing-board. No. 1,301,874; Apr. 29; v. 261; p. 821.  
Poland, John L., Chetopa, Kans. Automobile-lock. No. 1,305,563; June 3; v. 263; p. 64.  
Poland, John L., Waukena, Kans. Safety appliance for carburetors. No. 1,314,900; Sept. 2; v. 266; p. 79.  
Polasky, Samuel H., assignor to F. A. Hardy & Company, Chicago, Ill. Shield for welders and the like. No. 1,313,908; Aug. 26; v. 265; p. 472.  
Pole, Joseph C., New York, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Vacuum electric apparatus. No. 1,307,455; June 24; v. 263; p. 511.  
Pole, Joseph C., Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation Inc. Apparatus for treating liquids by ultra-violet rays. No. 1,318,838; Oct. 7; v. 267; p. 130.  
Pole, Samuel J., et al. (See Lamar, Alexis L., assignor.)  
Pole and Tube Works. (See Schwarz and Vintschger, assignors.)  
Polen, Clarence R., Eureka, Kans. Temper-screw-adjusting means. No. 1,317,101; Sept. 23; v. 266; p. 557.  
Polhamus, Albert Z., Fort Wayne, Ind. Folding stand. No. 1,302,703; May 6; v. 262; p. 42.  
Polhamus Company, The (See Barr, Walter A., assignor.)  
Poli, Alpheria, Walsenburg, Colo. Cigarette-making device. No. 1,304,598; May 27; v. 262; p. 501.  
Police Traffic Auto Signal Co. (See Cohn, Samuel, assignor.)  
Police Traffic Auto Signal Company. (See Newman, Max H., assignor.)  
Police Traffic Signal Company. (See Carr, William E., assignor.)  
Poling, John C., Nebraska City, Nebr., assignor of one-half to W. B. Banning, Metal-reinforced concrete pipe. No. 1,325,678; Dec. 23; v. 269; p. 585.  
Polinkowsky, Lipa. (See Deakin and Polinkowsky.)  
Polinkowsky, Lipa, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,299,606; Apr. 8; v. 261; p. 253.  
Polinsky, Samuel. (See Sokolow and Polinsky.)  
Polivka, Joseph, New Brunswick, N. J. Collar and attaching means. No. 1,309,959; July 15; v. 264; p. 427.  
Polk, Harold G., Orient, S. D. Non-refillable bottle. No. 1,324,321; Dec. 9; v. 269; p. 251.  
Polk, Thomas J., Beaumont, Tex. Combined kitchen-cabinet and refrigerator. No. 1,295,005; Mar. 4; v. 260; p. 42.  
Pollak, Oscar N., et al. (See Hollander, Jacob H., assignor.)  
Pollak, Joseph, Boston, Mass. Foot-rest for automobiles. No. 1,303,956; May 20; v. 262; p. 341.  
Pollard, Ellery, Brooklyn, N. Y. Hanging bracket. No. 1,304,599; May 27; v. 262; p. 502.  
Pollard, George, assignor to The Menco-Elma Syndicate Limited, London, England. Reversing-gearing. No. 1,293,190; Feb. 4; v. 259; p. 50.  
Pollard, Jesse A., Oakland, Miss. Sand and gravel pump. No. 1,316,507; Sept. 16; v. 266; p. 398.  
Pollard, Willard L., Evanston, assignor to The Cable Company, Chicago, Ill. Musical instrument. No. 1,308,110; July 1; v. 264; p. 19.  
Pollard, Willard L., assignor to The Cable Company, Chicago, Ill. Player-piano. No. 1,308,915; July 8; v. 264; p. 194.  
Pollatsek, Adolf, Brooklyn, N. Y. Labeling-machine. No. 1,295,592; Feb. 25; v. 259; p. 697.  
Pollen, Arthur H., London, and H. F. Landstad, York, England. Apparatus for determining and correcting the course of aircraft. No. 1,314,429; Aug. 26; v. 265; p. 573.  
Pollen, Arthur H., London, and H. F. Landstad, York, England. Bomb-dropping sight for aircraft. No. 1,314,428; Aug. 26; v. 265; p. 572.  
Pollen, Arthur H., London, and H. Isherwood, York, England. Electric fire control for guns. No. 1,314,208; Aug. 26; v. 265; p. 529.  
Polley, Arthur J., Earlswood, and F. G. Creed, Croydon, England. Type-setting and printing machine. No. 1,321,329; Nov. 11; v. 268; p. 247.  
Polli, Natale. (See Fedirice and Polli.)  
Pollock, Charles C. (See Strang and Pollock.)  
Pollock, Charles H., Hillsboro, Oreg. Sandpaper-holder for chucks. No. 1,319,417; Oct. 21; v. 267; p. 422.  
Pollock, George, San Francisco, Cal. Making shoes. No. 1,290,654; Jan. 7; v. 258; p. 155.  
Pollock, Grant E., Clinton, Ill. Milk-can-cover lock. No. 1,317,891; Oct. 7; v. 267; p. 44.  
Pollock, Henry F., and H. J. Hick, Alliance, Ohio, assignors to The McCaskey Register Company, Alliance, Ohio. Filing-appliance case. No. 1,299,607; Apr. 8; v. 261; p. 255.  
Pollock Manufacturing Company. (See Welker, Alexander H., assignor.)  
Pollock, Reno E., Bedford, Ohio. Antiskid device for vehicle-wheels. No. 1,324,065; Dec. 9; v. 269; p. 202.



- Polotsky, Abraham, Berlin-Charlottenburg, Germany, assignor to Deutsche Gasglühlichtaktiengesellschaft, (Auergesellschaft), Berlin, Germany. Making cellulose esters with over twenty per cent. of bound fatty acid. No. 1,296,847; Mar. 11; v. 260; p. 268.
- Poloubouyarenof, Alexander D., New York, N. Y. Shoe-lace fastening. No. 1,315,860; Sept. 9; v. 266; p. 262.
- Polisnelli, Frank, Benwood, W. Va. Sowing-machine construction. No. 1,308,679; July 1; v. 264; p. 123.
- Polysu, Constantine C., Tonnere, France. Method and apparatus for casing wells. No. 1,313,013; Aug. 12; v. 265; p. 252.
- Pomerantz, Isadore, Kansas City, Mo. Lintel-block. No. 1,295,204; Feb. 25; v. 259; p. 607.
- Pomerantz, Isadore, Kansas City, Mo. Wall construction. No. 1,320,647; Nov. 4; v. 268; p. 54.
- Pomeroy, Harris F., Flint, Mich. Mechanical power transmission. No. 1,315,985; Sept. 16; v. 266; p. 300.
- Pomeroy, Percy W., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,301,005; Apr. 15; v. 261; p. 583.
- Pommer, Ernesto J., Buenos Aires, Argentina. Sheath for knives. No. 1,297,008; Mar. 11; v. 260; p. 306.
- Pond, Alanson M., Dubuque, Iowa. Grease-cup. No. 1,300,009; Apr. 8; v. 261; p. 343.
- Pond, Clarke P., Philadelphia, Pa. Floating tire-rack. No. 1,304,902; May 27; v. 262; p. 558.
- Pond, Clarke P., Philadelphia, Pa. Door-handle. No. 1,305,619; June 3; v. 263; p. 75.
- Pond, Edmund M., assignor, by mesne assignments, to K. R. Pond, Rutland, Vt. Composition of matter for plasters, ointments, &c. No. 1,304,600; May 27; v. 262; p. 502.
- Pond, Ezra S., Toledo, Ohio. Portable combination power-tool. No. 1,321,847; Nov. 18; v. 268; p. 396.
- Pond, Katherine R. (See Pond, Edmund M., assignor.)
- Pons, Eugene, assignor of fifteen thirds-seconds to F. J. Seabolt, one-fourth to M. H. Hall, one thirty-second to C. D. Knight, Schenectady, N. Y., and one-fourth to E. F. Pickford, Washington, D. C. Electric winding mechanism for clocks and the like. No. 1,301,499; Apr. 22; v. 261; p. 718.
- Pons, Victor, Lyon, France. Construction of spark-plugs. No. 1,315,792; Sept. 9; v. 266; p. 249.
- Pontio, Maurice, Paris, France. Molded object in imitation of porcelain. No. 1,293,191; Feb. 4; v. 259; p. 50.
- Pontoppidan, Carl, Brooklyn, assignor to F. L. Smith & Co., New York, N. Y. Manufacture of Portland cement. No. 1,320,172; Oct. 28; v. 267; p. 587.
- Pool, Edward, Cincinnati, Ohio. Self-closing ink-well. No. 1,292,872; Jan. 28; v. 258; p. 761.
- Pool, Robert H., and G. A. Hughes, Youngstown, Ohio. Induction-motor. No. 1,322,264; Nov. 18; v. 268; p. 473.
- Poole, Alfonso S., Danville, Va. Loom attachment. No. 1,314,149; Aug. 26; v. 265; p. 518.
- Poole, Arthur F., Chicago, Ill. Electric-clock system. No. 1,310,372; July 15; v. 264; p. 500.
- Poole, Arthur F., Chicago, Ill. Electric-clock system. No. 1,310,373; July 15; v. 264; p. 500.
- Poole, Arthur F., Chicago, Ill. Electric-clock system. No. 1,310,374; July 15; v. 264; p. 501.
- Poole, Arthur F., Chicago, Ill. Clock system. No. 1,310,375; July 15; v. 264; p. 501.
- Poole, Arthur F., Kenilworth, Ill. Electric clock. No. 1,325,862; Dec. 23; v. 269; p. 619.
- Poole, Arthur F., Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,294,157; Feb. 11; v. 259; p. 307.
- Poole, Arthur F., Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Algebraic totalizer. No. 1,296,118; Mar. 4; v. 260; p. 69.
- Poole, Arthur F., Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,296,119; Mar. 4; v. 260; p. 69.
- Poole, Arthur F., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,301,318; Apr. 22; v. 261; p. 684.
- Poole, Arthur F., Chicago, Ill., assignor to Wahl Company, Wilmington, Del. Calculating-machine. No. 1,311,710; July 29; v. 264; p. 812.
- Poole, Arthur F., Kenilworth, Ill., assignor to Wahl Company, Wilmington, Del. Calculating-machine. No. 1,314,094; Aug. 26; v. 265; p. 507.
- Poole, Arthur F., Kenilworth, Ill., assignor to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,318,587; Oct. 14; v. 267; p. 238.
- Poole, Homer H. (See Daigh, Charles R., assignor.)
- Poole, John H., assignor to Brockton Manufacturing Company, Brockton, Mass. Napkin-clasp. No. 1,303,957; May 20; v. 262; p. 341.
- Poole, Jonathan D., Sciotoville, Ohio. Anchor device for use in advancing mud-ditched vehicles. No. 1,316,323; Sept. 16; v. 266; p. 363.
- Pooler, Clinton H., Jr., Rapid City, S. D. Power-transmission apparatus. No. 1,323,095; Nov. 25; v. 268; p. 681.
- Poor, Charles L., Dering Harbor, Shelter Island, N. Y. Navigation instrument. No. 1,308,748; July 1; v. 264; p. 136.
- Poor, Fred A., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,292,873; Jan. 28; v. 258; p. 761.
- Poor, Fred A., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,318,107; Oct. 7; v. 267; p. 84.
- Poor, Frederick E., Port Chester, assignor to Universal Stamping Machine Co., New York, N. Y. Tripping mechanism for machines for marking mail, &c. No. 1,309,655; July 15; v. 264; p. 370.
- Pope, Alfred T., assignor of one-half to C. Pope, Louisville, Ky. Heating, ventilating, and humidifying system for incubators. No. 1,303,722; May 13; v. 262; p. 260.
- Pope, Charles E., Springfield, Mass., assignor to Great Northern Paper Company, Millinocket, Me. Paper-making machine. No. 1,304,903; May 27; v. 262; p. 558.
- Pope, Charles E., Springfield, Mass., assignor to Great Northern Paper Company, Millinocket, Me. Method and machine for making paper. No. 1,326,615; Dec. 30; v. 269; p. 797.
- Pope, Curran. (See Pope, Alfred T., assignor.)
- Pope, Edwin, Quebec, Quebec, Canada. Telegraph apparatus. No. 1,291,124; Jan. 14; v. 258; p. 291.
- Pope, Edwin, Quebec, Quebec, Canada. Telegraph system. No. 1,305,620; June 3; v. 263; p. 76.
- Pope, Edwin, Quebec, Quebec, Canada. Telegraph apparatus. No. 1,309,960; July 15; v. 264; p. 427.
- Pope, James H., assignor to C. D. Griswold, Brooklyn, N. Y. Closet. No. 1,291,125; Jan. 14; v. 258; p. 291.
- Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Blank-feeding mechanism for skiving-machines. No. 1,305,236; May 27; v. 262; p. 621.
- Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Jack. No. 1,313,909; Aug. 26; v. 265; p. 472.
- Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Nail-feeding mechanism. No. 1,325,751; Dec. 23; v. 269; p. 598.
- Pope, Joseph H., Hamilton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Nail distributing and loading machine. No. 1,325,752; Dec. 23; v. 269; p. 598.
- Popkess, Michael A. (See Black and Popkess.)
- Popkess, Michael A., Kansas City Mo., assignor to Bituminized Road Company. Plastic material and making same. No. 1,320,709; Nov. 4; v. 268; p. 65.
- Popp, Jonas, Brooklyn, assignor of one-half to D. Bauer, New York, N. Y. Bottle-cap and the like. No. 1,290,655; Jan. 7; v. 258; p. 155.
- Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,305,491; June 3; v. 263; p. 49.
- Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,314,699; Sept. 2; v. 266; p. 43.
- Poppenhusen, Herman A., Hammond, Ind., and A. P. Strong, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind. Storage-tank or receptacle. No. 1,311,296; July 29; v. 264; p. 735.
- Poppenhusen, Herman A., Hammond, Ind., and A. P. Strong, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,324,980; Dec. 16; v. 269; p. 438.
- Popper, Isaac C., New York, N. Y. Folding knife, fork, and spoon. No. 1,321,670; Nov. 11; v. 268; p. 311.
- Poppink, Jan H., Tilburg, assignor of one-half to J. C. Bischoff, Amsterdam, Netherlands. Means for transmitting rotary motion. No. 1,298,560; Mar. 25; v. 260; p. 692.
- Poppink, Jan H., Tilburg, Netherlands. Means for mixing steam with air. No. 1,315,931; Sept. 9; v. 266; p. 276.
- Porcher, Edward P., Charleston, S. C. Automobile-top-raising device. No. 1,298,387; Mar. 25; v. 260; p. 653.
- Porro, Emilio, Albany, Calif. Cell-door-locking device. No. 1,299,222; Apr. 1; v. 261; p. 187.
- Porteous, James, Fresno, Calif. Aeroplane. No. 1,302,214; Apr. 29; v. 261; p. 884.
- Porter, Albert H., Pueblo, Colo. Automatic stirrup. No. 1,323,549; Dec. 2; v. 269; p. 62.
- Porter, Alvin G., Auburn, Wash. Paper receptacle. No. 1,303,723; May 13; v. 262; p. 260.
- Porter, Claude G., Seaford, Del. Dividing-stairs. No. 1,300,010; Apr. 8; v. 261; p. 343.
- Porter, Edgar F., Pella, Iowa. Automatic vacuum-cup hog-oller. No. 1,316,970; Sept. 23; v. 266; p. 532.
- Porter, Edgar G., Woodlawn, Pa. Apparatus for coating metal sheets. No. 1,307,832; June 24; v. 263; p. 579.
- Porter, Edgar G., Woodlawn, Pa. Catcher for coating-machines. No. 1,316,644; Sept. 23; v. 266; p. 472.
- Porter, Edgar G., Woodlawn, and J. L. Klindworth, Coraopolis, Pa. Apparatus for coating with molten metal. No. 1,322,946; Nov. 25; v. 268; p. 653.
- Porter, Edward, assignor of one-half to J. L. Weeks, Perry, Fla. Portable electric grinding and polishing lathe. No. 1,326,091; Dec. 23; v. 269; p. 662.



## Alphabetical list of patentees—Continued.

- Porter, Ernest L., Boston, Mass. Color-holder. No. 1,316,324; Sept. 16; v. 266; p. 363.
- Porter, Finley R., Port Jefferson, N. Y., assignor to Knight American Patents Company, Chicago, Ill. Oiling mechanism for rotary shafts. No. 1,308,916; July 8; v. 264; p. 194.
- Porter, Frederick A., Bellingham, Wash. Fish-hook. No. 1,295,370; Feb. 25; v. 259; p. 645.
- Porter, George A., assignor to Invincible Stopper Company, Boston, Mass. Non-refillable bottle. No. 1,313,910; Aug. 26; v. 265; p. 472.
- Porter, Harold E., Bayside, N. Y. Mandrel. No. 1,295,924; Mar. 4; v. 260; p. 23.
- Porter, Harrison T. (See Buchanan and Porter.)
- Porter, Harry G., assignor to W. F. Deussa, Chicago, Ill. Index-tab strip. No. 1,326,370; Dec. 30; v. 269; p. 750.
- Porter, James C., Seattle, Wash. Can-filling machine. No. 1,315,403; Sept. 9; v. 266; p. 180.
- Porter, James L., Los Angeles, Cal., assignor to G. A. Foehl, Paterson, N. J. Remagnetizing device. No. 1,293,912; Feb. 11; v. 259; p. 248.
- Porter, James R., London, England. Aeronautical machine. No. 1,291,126; Jan. 14; v. 258; p. 291.
- Porter, Johnston P., Portland, Oreg. Means for removing sand-bars and other water accumulations. No. 1,304,509; May 20; v. 262; p. 446.
- Porter, Louis N., assignor of one-half to J. M. Dixon, Blair, Neb. Incubator-heating system. No. 1,315,154; Sept. 2; v. 266; p. 124.
- Porter, Mazel L., Rochester, N. Y. Tatting-shuttle. No. 1,314,209; Aug. 26; v. 265; p. 529.
- Porter, Milton J., assignor of one-half to J. M. Fronefield, Wayne, Pa. Post-office box. No. 1,314,363; Aug. 26; v. 265; p. 560.
- Porter, Sarah J. (See Sawtelle, Charles A., assignor.)
- Porter, Walter S., assignor of one-half to L. May, San Francisco, Cal. Dental cabinet and laboratory. No. 1,292,055; Jan. 21; v. 258; p. 545.
- Porter, Wilbey M., and E. H. Sprague, Sacramento, Calif. Repair-bench. No. 1,313,604; Aug. 19; v. 265; p. 381.
- Porter, Willard E., and A. L. R. Ellis, Lynn, Mass., assignors to General Electric Company. Electrical measuring instrument. No. 1,306,624; June 10; v. 263; p. 293.
- Porter, William E., et al. (See Sethman, George H., assignor.)
- Porter, William E., Tacoma, Wash. Cushioned wheel. No. 1,295,593; Feb. 25; v. 259; p. 698.
- Porter, William G., et al. (See Waller, Oen F., assignor.)
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Automobile-clock. No. 1,292,043; Jan. 21; v. 258; p. 541.
- Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Chime-clock. No. 1,300,771; Apr. 15; v. 261; p. 533.
- Portesi, Julius, Los Angeles, Calif. Refrigerator-door latch. No. 1,302,846; May 6; v. 262; p. 70.
- Portiance, Napoleon J., Minneapolis, Minn. Fan-belt. No. 1,321,330; Nov. 11; v. 268; p. 247.
- Portland Industrial Company. (See Larson, Andrew F., assignor.)
- Porzel, Joseph, assignor to City Trust Company, Buffalo, N. Y. Vulcanizing-machine. No. 1,308,111; July 1; v. 264; p. 19.
- Poschadel, Leonard R., New York, N. Y. Crank-case oil-trap. No. 1,303,111; May 6; v. 262; p. 121.
- Poschadel, Leonard R., Milwaukee, Wis. Internal-combustion engine. No. 1,316,864; Sept. 23; v. 266; p. 512.
- Posdal, Joseph F. (See Wilhelm and Posdal.)
- Poser, Max, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic-test-lens frame. No. 1,291,127; Jan. 14; v. 258; p. 292.
- Posner, Harry, Brooklyn, N. Y. Intersectograph. No. 1,290,343; Jan. 7; v. 258; p. 80.
- Poss, George W., Cairo, Egypt, assignor of one-half to H. F. Bridges, Los Angeles, Calif. Oil-burner. No. 1,304,092; May 20; v. 262; p. 366.
- Posson, Edward, Chicago, Ill. Refrigerator-car. No. 1,322,051; Nov. 18; v. 268; p. 433.
- Post, Charles E., and P. G. Wagner, Los Angeles, Calif. Liquid-soap dispenser. No. 1,319,898; Oct. 28; v. 267; p. 536.
- Post, Howard A., Winfield, Kans. Telephone-mouthpiece attachment. No. 1,297,490; Mar. 18; v. 260; p. 438.
- Post, Howard A., Winfield, Kans. Foot-treating appliance. No. 1,315,035; Sept. 2; v. 266; p. 103.
- Post & Lester Company, The. (See Lester and Starr, assignors.)
- Post, Truman W., assignor to Arms Products Company, New York, N. Y. Adapter for hand-grenades. No. 1,311,006; July 22; v. 264; p. 648.
- Postal Telegraph-Cable Company. (See McNicol and Powers, assignors.)
- Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salomon (Système Canton-Unne), Billancourt, France. Bracket for accessories of explosion-engines. No. 1,308,807; July 8; v. 264; p. 174.
- Posternak, Swigel, Chené-Bougeries, near Geneva, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Organic phosphorus compound from plants. No. 1,313,014; Aug. 12; v. 265; p. 253.
- Poston, Emory E., Campbell, Calif. Hose-coupling. No. 1,310,134; July 15; v. 264; p. 457.
- Poston, Emory E., Campbell, Calif. Cap for inflating-valves. No. 1,318,917; Oct. 14; v. 267; p. 301.
- Postum Cereal Company. (See Lippen, Jonathan K., assignor.)
- Poszpech, Stefan, New York, N. Y. Gas-consumer's indicator. No. 1,309,811; July 15; v. 264; p. 398.
- Potash Extraction Corporation. (See Gaffney, Joseph B., assignor.)
- Potash Extraction Corporation. (See Gleaser, Walter, assignor.)
- Poteet, Robert H., Solgohachia, Ark. Fan-drive pulley. No. 1,320,089; Oct. 28; v. 267; p. 572.
- Poteet, Robert R., et al. (See Hinton, George W., assignor.)
- Potenski, Michal, Cleveland, Ohio. Rail-joint. No. 1,316,645; Sept. 23; v. 266; p. 472.
- Potter, Charles H., trustee. (See Pierce and Gordon, assignors.)
- Potter, Frank, Carthage, Mo. Tractor-plow. No. 1,321,551; Nov. 11; v. 268; p. 289.
- Potter, Frank M., Sioux City, Iowa. Fire-escape. No. 1,318,797; Oct. 14; v. 267; p. 278.
- Potter, Helen M., Bloomville, N. Y. Pessary. No. 1,320,648; Nov. 4; v. 268; p. 54.
- Potter, James C., Pawtucket, R. I. Automatic turret-lathe. No. 1,293,913; Feb. 11; v. 259; p. 248.
- Potter, James C., Pawtucket, R. I. Turret-lathe. No. 1,294,158; Feb. 11; v. 259; p. 307.
- Potter, James C., Pawtucket, R. I. Milling-machine. No. 1,320,272; Oct. 28; v. 267; p. 605.
- Potter, John, J. De Long, and F. Pike, Grand Ledge, Mich. Machine for upholstering chair-seats. No. 1,314,430; Aug. 26; v. 265; p. 573.
- Potter, John A., et al. (See Chambers, John A., assignor.)
- Potter, John E., Sapulpa, Okla. Means for severing and distributing molten material. No. 1,317,176; Sept. 30; v. 266; p. 607.
- Potter, John W., Ardmore, Okla. Tire-inflation valve. No. 1,297,239; Mar. 11; v. 260; p. 355.
- Potter, Joseph H., Seaside Heights, N. J. Attachment for joiners' squares. No. 1,301,166; Apr. 22; v. 261; p. 653.
- Potter, Joseph L., Indianapolis, Ind. Dumping excavating-bucket. No. 1,314,700; Sept. 2; v. 266; p. 43.
- Potter, Joseph L. and J. Le R., Indianapolis, Ind. Excavating apparatus. No. 1,313,911; Aug. 26; v. 265; p. 472.
- Potter, Joseph Le R. (See Potter, Joseph L. and J. Le R.)
- Potter, Ralph S., Grantwood, N. J., assignor to The Barrett Company. Producing anthranilic acid. No. 1,322,052; Nov. 18; v. 268; p. 433.
- Potter, Thomas I., assignor to Coin Machine Manufacturing Company, Portland, Oreg. Turnstile mechanism. No. 1,298,388; Mar. 25; v. 260; p. 654.
- Potter, Thomas J. (See Hulse, Benjamin F., assignor.)
- Potter, Walter P., and C. F. Handshy, Springfield, Ill. Ticket box and cutter. No. 1,315,404; Sept. 9; v. 266; p. 180.
- Potter, Wilbur C., New Brunswick, N. J. Thread-guide. No. 1,326,371; Dec. 30; v. 269; p. 750.
- Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Speed-regulating system for motor-generator sets. No. 1,315,793; Sept. 9; v. 266; p. 249.
- Potter, William W., Philadelphia, Pa. Submergible and towable supply-base. No. 1,301,738; Apr. 22; v. 261; p. 764.
- Potthoff, Gerhard T. and K. T., Brooklyn, N. Y. Apparatus for electroplating. No. 1,319,029; Oct. 14; v. 267; p. 323.
- Potthoff, Kurt T. (See Potthoff, Gerhard T. and K. T.)
- Potts, John E., Dayton, Ohio. Camera. No. 1,304,093; May 20; v. 262; p. 366.
- Potts, Louis M., assignor to A. McLanahan, Baltimore, Md. Selective signaling apparatus. No. 1,299,608; Apr. 8; v. 261; p. 254.
- Potts, Louis M., assignor to A. McLanahan, Baltimore, Md. Machine-telegraph. No. 1,309,745; July 15; v. 264; p. 387.
- Potts, Thomas E., assignor of one-third to P. Madsen and one-third to M. Madsen, Los Angeles, Cal. Gas-broiler. No. 1,294,159; Feb. 11; v. 259; p. 307.
- Potvin, Amelia, Detroit, Mich. Puff-holding handkerchief. No. 1,295,791; Feb. 25; v. 259; p. 743.
- Pou, James H., Jr., Raleigh, N. C. Eraser-pad. No. 1,311,245; July 29; v. 264; p. 726.
- Poulalion, Paul A. (See Schweimler and Poulalion.)
- Poullain, Thomas N., Claymont, Del. Time-table. No. 1,293,914; Feb. 11; v. 259; p. 249.
- Poulos, Gus, Perry, Iowa. Milk-dispensing apparatus. No. 1,306,313; June 10; v. 263; p. 236.
- Poulson, Andrew, Hough Green, near Widnes, and W. C. A. Mate, Garstang, assignors to C. J. Rourke, Cheadle Hulme, Manchester, England. Smelting furnace or cupola. No. 1,311,711; July 29; v. 264; p. 813.
- Poulton, Frank E., Boston, Mass., assignor, by mesne assignments, to S. Sternau & Co., Brooklyn, N. Y. Infusible solidified liquid fuel and making same. No. 1,299,408; Apr. 1; v. 261; p. 180.



- Pouncey, Bert C. (See Crocker, Matthew J., assignor.)
- Pound, John F., deceased, New York, N. Y.; K. Pound, administratrix. Funnell. No. 1,320,649; Nov. 4; v. 268; p. 54.
- Pound, Katherine, administratrix. (See Pound, John F.)
- Powdered Coal Engineering & Equipment Company. (See Kinyon, Alonzo G., assignor.)
- Powell, Albert, New Britain, Conn. Spacer for pendant electric lights. No. 1,307,923; June 24; v. 263; p. 596.
- Powell, Alonzo V., Bowling Green, Ohio. Nut-lock. No. 1,307,924; June 24; v. 263; p. 596.
- Powell, Andrew J., Aspin Hill, Tenn. Feed-regulator for manure-drills. No. 1,298,561; Mar. 25; v. 260; p. 692.
- Powell, Arthur C., Marysville, Calif. Fish-basket. No. 1,302,429; Apr. 29; v. 261; p. 926.
- Powell, Clarence J., Romney, W. Va. Automatic tire-tube deflater. No. 1,326,465; Dec. 30; v. 269; p. 768.
- Powell, Daniel J., Malden, Mass. Last. No. 1,322,467; Nov. 18; v. 268; p. 512.
- Powell, Dwight. (See Powell, Milton C. and D.)
- Powell, George C., Chicago, Ill. Level. No. 1,308,765; July 8; v. 264; p. 167.
- Powell, Howard L., New York, N. Y., and B. J. Miracky, Little Ferry, N. J., assignors to National Biscuit Company, New York, N. Y. Depositing-machine. No. 1,314,606; Sept. 2; v. 266; p. 25.
- Powell, Jesse E., Los Angeles, Calif. Spark-plug. No. 1,319,487; Oct. 21; v. 267; p. 436.
- Powell, Luther A., Warrior, Ala. Shade and curtain bracket. No. 1,304,705; May 27; v. 262; p. 522.
- Powell Manufacturing Company. (See Loftsgaarden, Albert T., assignor.)
- Powell, Milton C. and D., Chicago, Ill. Culinary cabinet. No. 1,316,254; Sept. 16; v. 266; p. 350.
- Powell, Walter B., Quebec, Quebec, Canada. Motor-heater and like device. No. 1,304,365; May 20; v. 262; p. 418.
- Powell, Walter C., Columbus, Ohio. Sealing-tape moistener. No. 1,311,007; July 22; v. 264; p. 649.
- Powell, William, London, England, assignor to Powell Wood Process (North America) Incorporated, New York, N. Y. Treating wood. No. 1,297,491; Mar. 18; v. 260; p. 438.
- Powell, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine. No. 1,290,344; Jan. 7; v. 258; p. 80.
- Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,293,620; Feb. 4; v. 259; p. 149.
- Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,303,958; May 20; v. 262; p. 342.
- Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Selective signaling system. No. 1,306,716; June 17; v. 263; p. 343.
- Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,306,827; June 17; v. 263; p. 363.
- Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange system. No. 1,308,553; July 1; v. 264; p. 99.
- Powell, Winfred T., assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,315,443; Sept. 9; v. 266; p. 187.
- Powell Wood Process (North America) Incorporated. (See Powell, William, assignor.)
- Power, Henry R., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive wheel. No. 1,310,291; July 15; v. 264; p. 486.
- Power, Henry R., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive wheel. No. 1,310,292; July 15; v. 264; p. 486.
- Power, Jeffrey J., assignor to Power, Stevens Fan Devices Company, Madison, Wis. Dust-collector. No. 1,308,961; July 8; v. 264; p. 203.
- Power, Jeffrey J., assignor to Power-Stevens Fan Devices Company, Madison, Wis. Vacuum-cleaner. No. 1,317,457; Sept. 30; v. 266; p. 661.
- Power, Nicholas, Brooklyn, N. Y. Tape moistening and applying apparatus. No. 1,315,405; Sept. 9; v. 266; p. 180.
- Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Stand for projecting apparatus. No. 1,323,377; Dec. 2; v. 269; p. 29.
- Power, Richard F., Doveridge, England. Aerial-observation instrument. No. 1,311,994; Aug. 5; v. 265; p. 26.
- Power, Richard F., Doveridge, England. Signaling device. No. 1,311,995; Aug. 5; v. 265; p. 26.
- Power, Richard F., Doveridge, England, assignor of one-half to O. W. Thomas, Ithaca, N. Y. Control of aeroplanes. No. 1,296,848; Mar. 11; v. 260; p. 268.
- Power Specialty Company. (See Nutting, Louis B., assignor.)
- Power-Stevens Fan Devices Company. (See Power, Jeffrey J., assignor.)
- Power, Thomas W., Washington, D. C. Non-furling device for banners. No. 1,311,712; July 29; v. 264; p. 813.
- Powers Accounting Machine Company. (See Lasker, William W., assignor.)
- Powers Accounting Machine Company. (See Penney, Harold D., assignor.)
- Powers Accounting Machine Company. (See Powers, James, assignor.)
- Powers Accounting Machine Company. (See Williams, Robert N., assignor.)
- Powers, George G., Los Angeles, Calif. Hypodermic syringe. No. 1,317,314; Sept. 30; v. 266; p. 633.
- Powers, George G., Los Angeles, Calif. Hypodermic syringe. No. 1,319,243; Oct. 21; v. 267; p. 389.
- Powers, Hines A., Farry, Okla. Road-scraping machine. No. 1,319,615; Oct. 21; v. 267; p. 460.
- Powers, James, New York, N. Y. Transferring master-drill device. No. 1,310,034; July 15; v. 264; p. 439.
- Powers, James, New York, N. Y. Apparatus and method for formulating and translating codes. No. 1,315,406; Sept. 9; v. 266; p. 180.
- Powers, James, assignor to Powers Accounting Machine Company, New York, N. Y. Perforating-machine. No. 1,299,022; Apr. 1; v. 261; p. 93.
- Powers, James, assignor to Powers Accounting Machine Company, New York, N. Y. Multisorting-machine. No. 1,310,433; July 22; v. 264; p. 543.
- Powers, James, assignor to Powers Accounting Machine Company, New York, N. Y. Feeding cards. No. 1,310,434; July 22; v. 264; p. 543.
- Powers, James, assignor to Powers Accounting Machine Company, New York, N. Y. Record-card feed. No. 1,312,806; Aug. 12; v. 265; p. 212.
- Powers, James, assignor to Powers Accounting Machine Company, New York, N. Y. Counter for accounting-machines. No. 1,312,807; Aug. 12; v. 265; p. 212.
- Powers, James, assignor to Powers Accounting Machine Company, New York, N. Y. Card-feed-actuated stop. No. 1,317,458; Sept. 30; v. 266; p. 661.
- Powers, John E., Pike, N. Y. Device for supporting tubs. No. 1,309,776; July 15; v. 264; p. 392.
- Powers, John N., assignor to United States Ordnance Company, Washington, D. C. Switch for electric firing devices. No. 1,302,968; May 6; v. 262; p. 93.
- Powers, John T., Tacoma, Wash., assignor to The Jones-Powers Carburetor Company, Denver, Colo. Means for locking automobiles. No. 1,309,154; July 8; v. 264; p. 240.
- Powers, John T., Tacoma, Wash., assignor to The Jones-Powers Carburetor Company, Denver, Colo. Permutation-lock for automobiles. No. 1,319,305; Oct. 21; v. 267; p. 400.
- Powers, Joseph V., Merrick, N. Y. Fruit-picker. No. 1,307,417; June 24; v. 263; p. 504.
- Powers, Patrick J., Red Lodge, Mont. Grain-measuring machine. No. 1,299,861; Apr. 8; v. 261; p. 312.
- Powers, Timothy B., New York, N. Y. Adjustable suspension device. No. 1,298,562; Mar. 25; v. 260; p. 692.
- Powers, Walter P. (See Kroger and Powers.)
- Powers, William O., Jr. (See McNicol and Powers.)
- Powers, William P., Los Angeles, Calif. Gas-supply regulator for gas-heaters. No. 1,305,742; June 3; v. 263; p. 97.
- Powers, William P., Los Angeles, Calif. Gas-regulator. No. 1,305,743; June 3; v. 263; p. 97.
- Powles, John B., Seattle, Wash. Valve for bung-vents. No. 1,300,011; Apr. 8; v. 261; p. 343.
- Powlin, Theodore, Lowville, N. Y. Ship-fender. No. 1,303,959; May 20; v. 262; p. 342.
- Pownall, Henry D., Canton, Ohio. Ice machinery. No. 1,293,648; Feb. 4; v. 259; p. 157.
- Poyas, Karl H., Los Angeles, Cal. Commutator-wiper. No. 1,293,193; Feb. 4; v. 259; p. 50.
- Präzisionsgusswerke System Schmidt-Reichhardt G. m. b. H. (See Talla, Heinrich, assignor.)
- Prager, Clarence H., Muskogee, Okla. Chart for teaching. No. 1,300,871; Apr. 15; v. 261; p. 554.
- Prahar, Lester, assignor to L. Prahar, New York, N. Y. Portable electric light. No. 1,307,456; June 24; v. 263; p. 511.
- Prahar, Louise. (See Prahar, Lester, assignor.)
- Pranker, Bert P., Marblehead, Mass. Automatic train-stop. No. 1,298,782; Apr. 1; v. 261; p. 39.
- Pranold, Peter G., Denver, Colo. Graduate-control valve. No. 1,315,741; Sept. 9; v. 266; p. 240.
- Prasca, Giulio V., La Spezia, Italy. Computing apparatus. No. 1,315,576; Sept. 9; v. 266; p. 211.
- Prater, Charles E., Fort Worth, Tex. Auxiliary roll-former for liner-condensers. No. 1,291,128; Jan. 14; v. 258; p. 292.
- Prather, Eugene F., Eaglette, Ark. Wrench. No. 1,318,175; Oct. 7; v. 267; p. 98.
- Prather, Frank M., Detroit, Mich. Explosive-engine. No. 1,299,777; Apr. 8; v. 261; p. 294.
- Prati, Thomas L., and R. Biagini, Charleroi, Pa. Ice-breaker. No. 1,299,023; Apr. 1; v. 261; p. 94.
- Pratt, Albert B., Lyndon, Vt. Firearm. No. 1,323,609; Dec. 2; v. 269; p. 72.
- Pratt, Alphonso C., Deep River, Conn. Apparatus for making gromets. No. 1,294,160; Feb. 11; v. 259; p. 307.
- Pratt, Alphonso C., Deep River, Conn. Gromet. No. 1,294,161; Feb. 11; v. 259; p. 308.
- Pratt, Alphonso C., Deep River, Conn., assignor to Whiting & Davis Company. Wind-shield. No. 1,302,969; May 6; v. 262; p. 93.



## Alphabetical list of patentees—Continued.

- Pratt, Alphonso C., New York, N. Y., assignor to Whiting & Davis Company. Machine for making link mesh. No. 1,317,726; Oct. 7; v. 267; p. 12.
- Pratt & Cady Co. (See Cardwell, Addison A., assignor.)
- Pratt & Cady Company. (See Woodcock, John, assignor.)
- Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Cutter-arms for mining machines. No. 1,322,819; Nov. 25; v. 268; p. 629.
- Pratt, Charles R., Monclair, assignor to H. C. Sanford, Englewood, N. J. Hydraulic ship steering-gear. No. 1,294,162; Feb. 11; v. 259; p. 308.
- Pratt, Clarence E., Dallas, Tex. Engine. No. 1,306,717; June 17; v. 263; p. 343.
- Pratt, Clarence H., Milwaukee, Wis. Monowheel drive mechanism. No. 1,310,542; July 22; v. 264; p. 563.
- Pratt, Edwin D., New York, N. Y. Double-check machine for use in food service. No. 1,318,918; Oct. 14; v. 267; p. 301.
- Pratt Engineering & Machine Company. (See Hurt, George F., assignor.)
- Pratt, Frank F., F. H. Farmer, and J. Kemp, Whittier, Calif. Orchard-cultivator. No. 1,316,183; Sept. 16; v. 266; p. 336.
- Pratt, George L., assignor to M. L. Pratt, Atlanta, Ga. Measuring device. No. 1,313,731. Aug. 19; v. 265; p. 405.
- Pratt, George R., Williston, N. D. Attachment for drinking-fountains. No. 1,297,399; Mar. 18; v. 260; p. 419.
- Pratt, George R., Winnipeg, Manitoba, Canada. Heat-engine. No. 1,326,092; Dec. 23; v. 269; p. 662.
- Pratt, George W., Oakland, Calif. Policeman's nippers and handcuffs combined. (Reissue.) No. 14,714; Aug. 19; v. 265; p. 432.
- Pratt, Harold T., and E. C. West, Ottawa, Ontario, Canada. Toy aeroplane. No. 1,320,914; Nov. 4; v. 268; p. 105.
- Pratt, Harry K. (See Garrett and Pratt.)
- Pratt, Hartley B. (See McKechnie and Pratt.)
- Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Machine for handling granular material. No. 1,320,090; Oct. 28; v. 267; p. 572.
- Pratt, John S. (See Redmond, James E., assignor.) (Reissue.)
- Pratt, Lester A., Winchester, and F. N. Brink, Woburn, assignors to Merrimac Chemical Company, North Woburn, Mass. Manufacture of naphthalene trisulfonic acid. No. 1,311,090; July 22; v. 264; p. 664.
- Pratt, Margaret L. (See Pratt, George L., assignor.)
- Pratt, Raymond C., Chicago, Ill. Cash-box. No. 1,316,971; Sept. 23; v. 266; p. 532.
- Pratt Read Player Action Company, The. (See Fisher, Stanley L., assignor.)
- Pratt, Robert C., Calhoun, Okla. Water-power device. No. 1,320,650; Nov. 4; v. 268; p. 54.
- Pratt, Thomas. (See Acton, Dickie, and Pratt.)
- Pratt, Ward E. (See Kelly and Pratt.)
- Pratt & Whitney Company. (See Carter, Alfred E., assignor.)
- Pratt & Whitney Company. (See Goodrich, Clarence L., assignor.)
- Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)
- Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)
- Pratt & Whitney Company. (See Muller, Friederich, assignor.)
- Pratt & Whitney Company. (See Woglom, Howard C., assignor.)
- Pratt, William E., et al. (See Meyer, August J., assignor.)
- Prax, Joseph F., Rochester, N. Y. Tool-holder. No. 1,315,640; Sept. 9; v. 266; p. 222.
- Pray, Lucian A. (See Kerr and Pray.)
- Preble, Edwin N., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. No. 1,293,915; Feb. 11; v. 259; p. 249.
- Preble, Henry T., Stockton, Calif. Tractor. No. 1,317,655; Sept. 30; v. 266; p. 699.
- Prefix Radiator Company. (See Opitz, Fred M., assignor.)
- Profontaine, Harry F., Brooklyn, N. Y. Shutter-operating attachment for cameras. No. 1,308,642; July 1; v. 264; p. 116.
- Preisler, Crist B., Portland, Oreg. Self-releasing davit-black hook for life-boats. No. 1,297,300; Mar. 11; v. 260; p. 369.
- Preiss, Adolph M., Kansas City, Mo. Burner or heater. No. 1,293,194; Feb. 4; v. 259; p. 51.
- Freiswerk, Ernst, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Isobutyl ester of oleic acid. No. 1,318,461; Oct. 14; v. 267; p. 214.
- Prejean, Cleomar, Vermilion parish, near Milton, assignor of one-half to C. F. Broussard, Kaplan, La. Nut-lock. No. 1,325,801; Dec. 23; v. 269; p. 608.
- Prell, Henry. (See Naab and Prell.)
- Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,316,184; Sept. 16; v. 266; p. 336.
- Premier Cushion Spring Co. (See Falls, William A., assignor.)
- Premier Cushion Spring Company. (See McCullough and Mahoney, assignors.)
- Premier Motor Corporation. (See Gunn and Nelson, assignors.)
- Prentiss, Lewis S., Seattle, Wash. Collapsible box. No. 1,323,098; Nov. 25; v. 268; p. 681.
- Prentiss, William A., assignor to George W. Prentiss & Company, Holyoke, Mass. Spool. No. 1,316,972; Sept. 23; v. 266; p. 532.
- Prescott, Arthur W., Binghamton, N. Y. Snap-lock. No. 1,297,591; Mar. 18; v. 260; p. 459.
- Prescott, Charles A., Hudson Falls, N. Y. Ash-tray. No. 1,323,489; Dec. 2; v. 269; p. 50.
- Prescott, Charles F., Brooklyn, N. Y. Process of and means for removing sand cores from hollow rolled metals. No. 1,304,200; May 20; v. 262; p. 385.
- Prescott, Charles F., Brooklyn, assignor to Locomotive Superheater Company, New York, N. Y. Locomotive-superheater. No. 1,315,641; Sept. 9; v. 266; p. 222.
- Prescott, Lewis E., Boston, Mass. Ring-packing. No. 1,294,829; Feb. 18; v. 259; p. 499.
- Prescott, Sydney L., assignor to American Machine & Foundry Company, New York, N. Y. Cut-off mechanism for cigarette-machines. No. 1,310,631; July 22; v. 264; p. 580.
- Press, Abraham, Washington, D. C. Spark-energizer. No. 1,296,006; Mar. 4; v. 260; p. 42.
- Press, Jacob H., Chicago, Ill. Vehicle-body. No. 1,321,331; Nov. 11; v. 268; p. 248.
- Pressed Bearing Company. (See Klocke, William, assignor.)
- Pressed Metal Radiator Company. (See Sonneborn, Charles, assignor.)
- Pressed Metals, Limited. (See Leighton and Crick, assignors.)
- Pressed Steel Automobile Lug Company. (See Kittelson, Halmer C., assignor.)
- Pressed Steel Car Company. (See Lindström and Streib, assignors.)
- Pressed Steel Car Company. (See Ristine, George W., Jr., assignor.)
- Pressell, George W., assignor to E. F. Houghton & Co., Philadelphia, Pa. Carburizing material and producing the same. No. 1,292,044; Jan. 21; v. 258; p. 542.
- Pressman, Harry J. (See Von Stetten and Pressman.)
- Prest-O-Lite Company, The. (See Clements, Everett G., assignor.)
- Prest-O-Lite Company, The. (See Noble and Gossling, assignors.)
- Prest-O-Lite Company. (See Root, Howard C., assignor.)
- Prest-O-Lite Company. (See Smith and Westlund, assignors.)
- Presto Passenger-Truck Co. (See Prouty, William B., assignor.)
- Preston, John E., London, England. Galvanic battery. No. 1,307,102; June 17; v. 263; p. 414.
- Preston, John E., assignor of one-half to W. E. Morum, London, England. Variable-velocity-ratio friction-drive. No. 1,318,588; Oct. 14; v. 267; p. 238.
- Preston, S. Edward, Chicago, Ill. Switching-socket. No. 1,323,200; Nov. 25; v. 268; p. 702.
- Preston, William. (See Ten Broeck and Preston.)
- Prettie, Richard J., Jamaica, N. Y., assignor to The Aeolian Company. Tone-arm for phonographs. No. 1,294,945; Feb. 18; v. 259; p. 525.
- Prettyman, George B. (See Clark and Prettyman.)
- Preusser, Ferdinand, Cologne-Kalk, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making, opaquing, and enameling compounds and product. No. 1,314,831; Sept. 2; v. 266; p. 67.
- Prevor, Frank. (See Dorment, Frank C., assignor.)
- Prevot, Jules, Paris, France. Tube for inclosing liquids or viscous substances. No. 1,300,646; Apr. 15; v. 261; p. 505.
- Prewitt, William H., Joplin, Mo. Truss. No. 1,325,679; Dec. 23; v. 269; p. 585.
- Pribil, Alexis R. (See Starker and Pribil.)
- Pribil, Alexis R., Cleveland, Ohio. Making pistons. No. 1,293,916; Feb. 11; v. 259; p. 249.
- Pribil, Alexis R., Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Guard for rotatably-mounted members. No. 1,300,294; Apr. 15; v. 261; p. 432.
- Pribil, Alexis R., Wilkesburg, Pa. Connecting-rod. No. 1,308,992; July 8; v. 264; p. 209.
- Pribil, Alexis R., Saginaw, Mich. Connecting-rod. No. 1,326,421; Dec. 30; v. 269; p. 760.
- Price, Alfred. (See Thomas, William R., assignor.)
- Price, Austin E., Decatur, Ill. Knockdown sign. No. 1,308,680; July 1; v. 264; p. 123.
- Price-Campbell Cotton Picker Corporation. (See Calderwood, Benjamin C., assignor.)
- Price Candy Co., The. (See Davis, John W. F., assignor.)
- Price, Charles P., Boston, Mass. Oil-distributor. No. 1,320,273; Oct. 28; v. 267; p. 606.
- Price, Earl L., Oakland, Cal. Can-filling machine. No. 1,290,656; Jan. 7; v. 258; p. 155.
- Price, Edward, Los Angeles, Calif. Teeter-board. No. 1,320,710; Nov. 4; v. 268; p. 65.
- Price, Floyd A., Tidewater, Oreg. Plate. No. 1,321,145; Nov. 11; v. 268; p. 211.



- Price, Floyd N., Fayetteville, Ark. Adjustable cuff. No. 1,315,036; Sept. 2; v. 266; p. 103.
- Price, George B., Toplift, Utah. Spring boot and oiler. No. 1,304,366; May 20; v. 262; p. 418.
- Price, George B., Toplift, Utah. Collapsible and foldable pneumatic bed. No. 1,323,610; Dec. 2; v. 269; p. 72.
- Price, James W., assignor of one-half to H. T. Miller, Henryetta, Okla. Tire construction. No. 1,319,110; Oct. 21; v. 267; p. 363.
- Price, James W., assignor of one-half to H. T. Miller, Henryetta, Okla. Shade-roller. No. 1,319,111; Oct. 21; v. 267; p. 363.
- Price, Orville J., Chico, Calif. Combination carbon-cleaner. No. 1,299,609; Apr. 8; v. 261; p. 254.
- Price, Port A., Benga, Wash. Weeding-machine. No. 1,291,129; Jan. 14; v. 258; p. 292.
- Price, Raymond B., Mishawaka, Ind., assignor to Rubber Regenerating Company. Vulcanizing rubber articles. No. 1,295,594; Feb. 25; v. 259; p. 698.
- Price, Raymond B., Mishawaka, Ind., assignor to Rubber Regenerating Company. Apparatus for treating plastic articles. No. 1,295,595; Feb. 25; v. 259; p. 698.
- Price, Raymond B., Mishawaka, Ind., assignor, by mesne assignments, to The Goodyear's Metallic Rubber Shoe Company, Naugatuck, Conn. Treating vulcanizable plastics. No. 1,309,485; July 8; v. 264; p. 301.
- Price, Raymond B., New York, N. Y., assignor to Rubber Regenerating Company. Apparatus for treating plastic articles. No. 1,295,596; Feb. 25; v. 259; p. 698.
- Price, Raymond B., New York, N. Y., assignor to Rubber Regenerating Company. Treatment of vulcanizable materials. No. 1,308,014; June 24; v. 263; p. 614.
- Price, Raymond B., New York, N. Y., assignor, by mesne assignments, to The Goodyear's Metallic Rubber Shoe Company, Naugatuck, Conn. Rubber footwear. No. 1,309,047; July 8; v. 264; p. 220.
- Price, Reuben M., De Land, Fla. Key mechanism for wood winds. No. 1,317,219; Sept. 30; v. 266; p. 615.
- Price, Russell C., Frankfort, Ind. Automobile-lock. No. 1,312,204; Aug. 5; v. 265; p. 66.
- Price, Samuel. (See Price and Davis, assignors.)
- Price Service & Company. (See Hanman, John, assignor.)
- Price, Solomon, and S. Davis, assignors to S. Price, Melbourne, Victoria, Australia. Lock-down multiple cotton-reel holder. No. 1,292,511; Jan. 28; v. 258; p. 675.
- Price, Thomas, Nanaimo, British Columbia, Canada. Mine-cage hoist. No. 1,300,647; Apr. 15; v. 261; p. 506.
- Price, Thomas, Nanaimo, British Columbia, Canada. Furnace-grate. No. 1,325,995; Dec. 23; v. 269; p. 643.
- Price, William G., North Yakima, Wash. Sizing-machine. No. 1,325,909; Dec. 23; v. 269; p. 628.
- Price, William H., Wilmington, Cal. Tractor attachment for trucks. No. 1,292,045; Jan. 21; v. 258; p. 542.
- Price, William J. (See Wolever and Price.)
- Prichard, Arthur G. (See Lee Harry G., assignor.)
- Prichard, Edgar H. (See Rufin and Prichard.)
- Prichard, George L., Fort Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Utilization of acid-coke. No. 1,290,345; Jan. 7; v. 258; p. 81.
- Prickett, William C., Birmingham, Ala. Jigging apparatus and process. No. 1,315,407; Sept. 9; v. 266; p. 181.
- Prickett, William H., and J. F. Morton, Trenton, N. J. Shade-holder for electric lamps. No. 1,303,112; May 6; v. 262; p. 121.
- Pride, Christopher W., Canton, Cardiff, assignor to himself and J. J. David, Cardiff, England. Demountable rim for wheels of vehicles. No. 1,300,223; Apr. 8; v. 261; p. 391.
- Prideaux, Clarence B., Forest Hill, London, England. Tool-holder. No. 1,308,681; July 1; v. 264; p. 123.
- Prideaux, William de C., Weymouth, England. Construction of links for ammunition-belts of machine-guns. No. 1,305,160; May 27; v. 262; p. 606.
- Prideaux, William de C., Weymouth, England. Ammunition-belt for machine-guns. No. 1,305,161; May 27; v. 262; p. 606.
- Prideaux, William de C., Weymouth, England. Ammunition-belt for machine-guns. No. 1,315,742; Sept. 9; v. 266; p. 240.
- Pridham, James C., South Pasadena, Calif. One-piece automatic folding carton. No. 1,307,638; June 24; v. 263; p. 544.
- Pridmore, Edward A., and W. W. Miller, La Grange, Ill. Molding-machine. No. 1,309,336; July 8; v. 264; p. 273.
- Priebe, Herman C., Blue Island, Ill. Car-underframing. No. 1,302,087; Apr. 29; v. 261; p. 861.
- Priebe, Herman C., Blue Island, Ill. Draft-gear. No. 1,302,704; May 6; v. 262; p. 42.
- Priebe, Herman C., Blue Island, Ill. Draft-gear. No. 1,302,705; May 6; v. 262; p. 42.
- Priebe, Herman C., Blue Island, Ill. Car structure. No. 1,302,706; May 6; v. 262; p. 43.
- Priebe, Herman C., Blue Island, Ill. Car structure. No. 1,302,707; May 6; v. 262; p. 43.
- Priebe, Herman C., Blue Island, Ill. Car structure. No. 1,302,708; May 6; v. 262; p. 43.
- Priest, Augustus F., Chicago, Ill. Carbureter. No. 1,307,374; June 24; v. 263; p. 496.
- Priest, Bertie M. (See Nelson, Wesley H., assignor.)
- Priest, Charles E., Malvern, Pa. Can-stamping machine. No. 1,304,904; May 27; v. 262; p. 558.
- Priest, Edward D., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,306,625; June 10; v. 263; p. 293.
- Priest, Henry M. (See Ford, Richardson, Greenbaum, and Priest.)
- Priester, Henry. (See Bradney and Priester.)
- Priestly, Frank W. (See Von Brethorst and Priestley.)
- Priford, George, Linwood, assignor to The Congoleum Company, Philadelphia, Pa. Making floor-coverings. No. 1,297,009; Mar. 11; v. 260; p. 306.
- Prignol, Henri. (See Binche, Dupuis, and Prignol.)
- Prillwitz, Henry F., Chicago, Ill. Acetylene-gas generator. No. 1,319,966; Oct. 28; v. 267; p. 549.
- Primbs, Maxilliam E., assignor of one-fourth to C. W. Lampus, Pittsburgh, Pa. Timer. No. 1,326,781; Dec. 30; v. 269; p. 828.
- Prime, Orton L., Milwaukee, Wis. Composite metal plug. No. 1,296,695; Mar. 11; v. 260; p. 234.
- Primeau, Arthur L., Iilon, N. Y. Headlight construction. No. 1,316,802; Sept. 23; v. 266; p. 501.
- Primeau, Louis J., Montreal, Quebec, Canada. Shell-truck. No. 1,319,616; Oct. 21; v. 267; p. 460.
- Primm, Carlom M., Long Beach, Calif. Curtain-supporting bracket. No. 1,299,223; Apr. 1; v. 261; p. 138.
- Primm, Carlom M., Long Beach, Calif. Life-preserver. No. 1,307,752; June 24; v. 263; p. 565.
- Primrose, William S., and H. H. Schwenning, Lead, S. D. Power-shovel. No. 1,315,684; Sept. 9; v. 266; p. 229.
- Prince, David C. (See Alexanderson and Prince.)
- Prince, David C., Springfield, Ill., assignor to General Electric Company. Speed control of induction-motors. No. 1,301,739; Apr. 22; v. 261; p. 764.
- Prince, John D., Boston, Mass. Leather substitute. No. 1,305,621; June 3; v. 263; p. 76.
- Prince, Louis A., Sumter, S. C. Running-board brace for automobiles. No. 1,297,730; Mar. 18; v. 260; p. 489.
- Prince, William B., assignor to The Bishop-Babcock-Becker Company, Cleveland, Ohio. Attachment for gas-drums. No. 1,293,917; Feb. 11; v. 259; p. 250.
- Prindle, Frank P., assignor to The Stanley Works, New Britain, Conn. Making corrugated fasteners. No. 1,321,473; Nov. 11; v. 268; p. 274.
- Prindle, Franklin C., Washington, D. C., assignor to C. Ricker, Indianapolis, Ind. Tilting steering-wheel for motor-vehicles. (Reissue.) No. 14,684; July 8; v. 264; p. 326.
- Prindle, William E., London, assignor, by mesne assignments, to The Buckeye Dryer Company, Columbus, Ohio. Rotary drier. No. 1,311,667; July 29; v. 264; p. 805.
- Prindle, William E., London, assignor to The Buckeye Dryer Company, Columbus, Ohio. Drier. No. 1,321,332; Nov. 11; v. 268; p. 248.
- Pringle, Alexander, assignor of one-half to T. S. Kirk, Belfast, Ireland. Artificial hand. No. 1,324,564; Dec. 9; v. 269; p. 299.
- Pringle, James B., Montreal, Quebec, Canada. Matrix-block. No. 1,297,731; Mar. 18; v. 260; p. 489.
- Printing Ink Compound Company. (See Byrne, Patrick S., assignor.)
- Printz, Charles H., Luray, Va. Currycomb. No. 1,326,782; Dec. 30; v. 269; p. 829.
- Priolo, John, Brooklyn, N. Y. Means for preventing ships from sinking. No. 1,293,918; Feb. 11; v. 259; p. 250.
- Prior, Fred, Des Moines, Iowa. Beet-harvester. No. 1,301,006; Apr. 15; v. 261; p. 533.
- Prior, Jed W., Burlington, Vt. Jar-lifter. No. 1,300,648; Apr. 15; v. 261; p. 506.
- Prior, Thomas W., and F. A. Church, Venice, Calif. Amusement device. No. 1,302,088; Apr. 29; v. 261; p. 861.
- Priquet, Andrew, Haledon, assignor to Miesch Manufacturing Company, Paterson, N. J. Let-off mechanism for looms. No. 1,290,346; Jan. 7; v. 258; p. 81.
- Pritchard, Albert R., New York, N. Y. Barber-chair. No. 1,309,694; July 15; v. 264; p. 378.
- Pritchard, Albert R., New York, N. Y. Extension wastebasket. No. 1,312,575; Aug. 12; v. 265; p. 167.
- Pritchard, Carl G., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Collating-feeder. No. 1,300,295; Apr. 15; v. 261; p. 432.
- Pritchard, Carl G., Warren, assignor to The Harris Automatic Press Company, Niles, Ohio. Printing-press. No. 1,301,970; Apr. 29; v. 261; p. 839.
- Pritchard, Carl G., Warren, Ohio, assignor to The Harris Automatic Press Company, Niles, Ohio. Deliverer for printing-presses. No. 1,309,544; July 8; v. 264; p. 312.
- Pritchard, Reuben L., London, England. Separation of fibers from the stalks of bast-plants and other adherent fibers. No. 1,315,328; Sept. 9; v. 266; p. 166.
- Pritchard, William C., assignor to The National Store Specialty Company, Lancaster, Pa. Weighing-scale. No. 1,299,224; Apr. 1; v. 261; p. 138.
- Pritchett, I. H. (See Strader, Julius G., assignor.)
- Pritchett, Leland L. (See Bridges and Pritchett.)
- Pritchett, William H., Cartersville, Ga. Automatic machine-gun. No. 1,297,240; Mar. 11; v. 260; p. 355.
- Pritchett, William H., U. S. Marine Corps. Automatic rifle. No. 1,297,241; Mar. 11; v. 260; p. 356.



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- Pritchett, William H., U. S. Marine Corps. Puncture-proof lining for pneumatic tires. No. 1,302,970; May 6; v. 262; p. 93.
- Pritschau Siegfried A. (See Van Riper and Pritschau.)
- Pritzker, Asher, Toronto, Ontario, Canada. Electric radiator. No. 1,310,838; July 22; v. 264; p. 618.
- Prizma Incorporated. (See Kelley, William V. D., assignor.)
- Prizma Incorporated. (See Raleigh and Kelley, assignors.)
- Probst, George L., Washington, D. C. Cabinet-drawer and supporting-guide therefor. No. 1,318,919; Oct. 14; v. 267; p. 301.
- Process Company, The. (See Coast, John W., Jr., assignor.)
- Prock, Joseph, Chicago, Ill., assignor to Pacific Coast Borax Company, New York, N. Y. Machine for automatically depositing articles in packages. No. 1,298,389; Mar. 25; v. 260; p. 654.
- Procter and Gamble Company, The. (See McCaw, Wallace E., assignor.)
- Procter, Joseph H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Producing iron sheets by electrical deposition. No. 1,300,296; Apr. 15; v. 261; p. 432.
- Proctor, Barton A., assignor to Kinoikon Apparatus Corporation, Bridgeton, N. J. Driving and retarding mechanism for moving-picture projectors. No. 1,298,390; Mar. 25; v. 260; p. 654.
- Proctor, Barton A., assignor to Kinoikon Apparatus Corporation, Bridgeton, N. J. Safety device for moving-picture projectors. No. 1,298,391; Mar. 25; v. 260; p. 655.
- Proctor, Barton A., assignor to Kinoikon Apparatus Corporation, Bridgeton, N. J. Protective shield and fire-shutter. No. 1,298,392; Mar. 25; v. 260; p. 655.
- Proctor, Barton A., assignor to Kinoikon Apparatus Corporation, Bridgeton, N. J. Moving-picture machine. No. 1,298,393; Mar. 25; v. 260; p. 655.
- Proctor, Barton A., assignor to Kinoikon Apparatus Corporation, Bridgeton, N. J. Framing mechanism for moving-picture machines. No. 1,298,394; Mar. 25; v. 260; p. 655.
- Proctor, Barton A., assignor to Kinoikon Apparatus Corporation, Bridgeton, N. J. Automatic compensated take-up reel. No. 1,298,395; Mar. 25; v. 260; p. 655.
- Proctor, Barton A., New York, assignor to H. C. Meyer, Brooklyn, N. Y. Stock-quotation projector. No. 1,299,024; Apr. 1; v. 261; p. 94.
- Proctor, George A., Watertown, Mass., assignor to Lovell-McConnell Manufacturing Company. Mechanical horn. No. 1,293,919; Feb. 11; v. 259; p. 250.
- Production Meter Company. (See Johnson, Austin C., assignor.)
- Production Tool Co. of America. (See Brenner, William L., assignor.)
- Production, Tool Co. of America. (See Germonprez, John A., assignor.)
- Products Syndicate. (See Byers, Joseph J., assignor.)
- Proeger, Julius, Pittsburgh, Pa. Manufacture of sheet-glass. No. 1,320,091; Oct. 28; v. 267; p. 572.
- Proffitt, Arba A., Gibson City, Ill. Internal-combustion engine. No. 1,298,256; Mar. 25; v. 260; p. 627.
- Progress Machine Company. (See Lieber, Peter C., assignor.)
- Projectile Protector Company. (See Schirra, Julius, assignor.)
- Prokofieff, Ivan M. (See Kramer, Anders.)
- Prokopczuk, Lukasz, Arran, Saskatchewan, Canada. Draft-equalizer. No. 1,297,592; Mar. 18; v. 260; p. 459.
- Proksch, Ferdinand, Vienna, Austria. Testing-lamp. No. 1,313,952; Aug. 26; v. 265; p. 481.
- Proksch, Otto A., Chasburg, Wis. Automobile dirigible headlight. No. 1,292,370; Jan. 21; v. 258; p. 620.
- Prometheus Electric Company, The. (See Ripley, William H., assignor.)
- Propst, Charles M., assignor of one-half to F. G. Pierce, Marshalltown, Iowa. Container for chalk-lines. No. 1,324,171; Dec. 9; v. 269; p. 223.
- Proser, Bernard, Baltimore, Md. Method of an apparatus for transmitting intelligence. No. 1,322,340; Nov. 18; v. 268; p. 487.
- Proske, Alexander L. (See Proske, Theodore H. and A. L.)
- Proske, Theodore H. and A. L., Denver, Colo. Upsetting-machine. No. 1,322,612; Nov. 25; v. 268; p. 591.
- Proskoy, Winfield S., Reno, Nev., assignor of one-half to W. Dulles, Englewood, N. J. Running-gear for vehicles. No. 1,319,244; Oct. 21; v. 267; p. 389.
- Prosser, George, Portland, Oreg. Cutting device. No. 1,301,875; Apr. 29; v. 261; p. 821.
- Prosser, Solomon C., Eaton Rapids, Mich. Wire-splicing tool. No. 1,307,516; June 24; v. 263; p. 522.
- Prosser, William J., Denver, Colo. Planer attachment. No. 1,297,242; Mar. 11; v. 260; p. 356.
- Protective Signal Manufacturing Company, The. (See Neahr, Will C., assignor.)
- Protectu Corporation. (See Shoemaker, John F., assignor.)
- Protex Manufacturing Company. (See Sonnichsen, Andreas M., assignor.)
- Proudfit, Edwin B., Westfield, N. J., assignor to The Acolian Company. Means for boxing music-rolls. No. 1,317,035; Sept. 23; v. 266; p. 544.
- Proudfit Loose Leaf Company, The. (See Edwards, William H., assignor.)
- Proudfit Loose Leaf Company. (See Proudfit, Edwards, and Winters, assignors.)
- Proudfit, William S., W. H. Edwards, and A. F. Winters, assignors to The Proudfit Loose Leaf Company, Grand Rapids, Mich. Loose-leaf binder. No. 1,292,046; Jan. 21; v. 258; p. 542.
- Proulx, Walter, Lewiston, Me. Pulling-over machine. No. 1,309,812; July 15; v. 264; p. 399.
- Prouty, George W., Milton, Mass. Ticket-punch. No. 1,312,492; Aug. 5; v. 265; p. 120.
- Prouty, Theodore C., Elgin, Ill., assignor, by mesne assignments, to The Van Sicklen Company. Making cover-plates. No. 1,297,010; Mar. 11; v. 260; p. 306.
- Prouty, Theodore C., Aurora, Ill., assignor, by mesne assignments, to The Van Sicklen Company. Speed-indicating device. No. 1,314,364; Aug. 26; v. 265; p. 560.
- Prouty, William B., Evanston, assignor to Presto Passenger-Truck Co., Chicago, Ill. Vehicle-body. No. 1,305,407; June 3; v. 263; p. 33.
- Providence Body Company. (See Monahan, Thomas H., assignor.)
- Pruden, Harry B., Chicago, Ill. Combustion of powdered fuel. No. 1,307,375; June 24; v. 263; p. 496.
- Pruefer, Walter H., assignor to Fischer and Pruefer, Providence, R. I. Bracelet. No. 1,304,706; May 27; v. 262; p. 522.
- Pruessman, Albert, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Condenser. No. 1,298,396; Mar. 25; v. 260; p. 656.
- Pruitt, Conrad D. (See Baker, Derrick, and Pruitt.)
- Pruyn, John E., Philadelphia, Pa. Ball-bearing. No. 1,319,794; Oct. 28; v. 267; p. 516.
- Przyasny, Roman. (See Sadiovsky, Henry, assignor.)
- Przybylek, Aleck, Newark, N. J. Combined knife and fork. No. 1,324,565; Dec. 9; v. 269; p. 299.
- Przybylsz, Felix, Joliet, Ill. Fire-extinguisher. No. 1,299,610; Apr. 8; v. 261; p. 254.
- Przybylsz, Felix, Joliet, Ill. Soldier's headwear. No. 1,299,611; Apr. 8; v. 261; p. 254.
- Psik, Martin, Chicago, Ill. Automobile steering mechanism. No. 1,299,025; Apr. 1; v. 261; p. 94.
- Ptaszek, Jozef. (See Ropicky, Wasil, assignor.)
- Public Service Cup Company. (See Elsas, Herman, assignor.)
- Public Service Cup Company. (See Errett, Charles, assignor.)
- Public Service Cup Company. (See Lockwood and Nias, assignors.)
- Pudlin, David, New York, N. Y. Eyes for dolls. No. 1,310,293; July 15; v. 264; p. 486.
- Pudney, Sydney H., Toronto, Ontario, Canada. Fire-door-operating mechanism. No. 1,315,155; Sept. 2; v. 266; p. 124.
- Puff, Henry, St. Cloud, Minn. Vehicle-body. No. 1,305,162; May 27; v. 262; p. 607.
- Puffer-Hubbard Manufacturing Co. (See Hubbard, Arthur O., assignor.)
- Pugh, Edward J., Glenside, Pa., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Basic sulfate of zirconium and making the same. No. 1,316,107; Sept. 16; v. 266; p. 322.
- Pugh, John V., Coventry, England, assignor, by mesne assignments, to Wire Wheel Corporation of America. Detachable wheel. No. 1,296,007; Mar. 4; v. 260; p. 43.
- Pugh, John V., Coventry, England, assignor, by mesne assignments, to Wire Wheel Corporation of America. Detachable wheel. No. 1,296,316; Mar. 4; v. 260; p. 113.
- Pugh, John V., Coventry, England, assignor, by mesne assignments, to Wire Wheel Corporation of America. Detachable wheel. No. 1,304,510; May 20; v. 262; p. 447.
- Pugh, Morton E., Chicago, Ill. Excavator. No. 1,316,058; Sept. 16; v. 266; p. 313.
- Pugliese, Umberto, Rome, Italy. Protecting structure for ships. No. 1,299,026; Apr. 1; v. 261; p. 95.
- Pugsley, Edwin, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bolt-gun. No. 1,316,803; Sept. 23; v. 266; p. 501.
- Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller mechanism. No. 1,299,778; Apr. 8; v. 261; p. 294.
- Pukerud, Thomas S., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Operating mechanism for controllers. No. 1,299,779; Apr. 8; v. 261; p. 294.
- Pulkka, Aksel. (See Bernwall and Pulkka.)
- Pull-U-Out Manufacturing Company. (See Eggleston, Robert N., assignor.)
- Pulliclean Manufacturing Co. (See Hendrick, Foscolo O., assignor.)
- Pullen, Rhodes E., Winston-Salem, N. C. Ribbon-reinking attachment for type-writers. No. 1,304,367; May 20; v. 262; p. 419.
- Pulley, William O., West Frankfort, Ill. Soil-pulverizer. No. 1,318,250; Oct. 7; v. 267; p. 110.



- Pullinger, Thomas C. W., Dumfries, assignor of one-half to W. Beardmore, Parkhead, Glasgow, Scotland. Construction of water-jacketed engine-cylinders. No. 1,301,740; Apr. 22; v. 261; p. 764.
- Pullman Couch Company. (See Bartlett, Harry D., assignor.)
- Pullman Couch Company. (See Davis, Fred M., assignor.)
- Pullman Couch Company, The. (See Metzger, Charles T., assignor.)
- Pullman Couch Company. (See Svebilius, Henry M., assignor.)
- Pultney, David C. (See Auel and Pultney.)
- Pulver, Frank F., Rochester, assignor of one-half to L. H. Pulver, Adams Basin, N. Y. Film-winding mechanism for cameras. No. 1,311,996; Aug. 5; v. 265; p. 27.
- Pulver, Adams Basin, N. Y. Film-winding mechanism for cameras. No. 1,311,996; Aug. 5; v. 265; p. 27.
- Pulver, Libbie H. (See Pulver, Frank F., assignor.)
- Pupilla, Paul P., Bradley Beach, N. J. Candy-coating machine. No. 1,294,946; Feb. 18; v. 259; p. 526.
- Purcell, Adam E., et al. (See Leitch, Roy C., assignor.)
- Purcell, Edward L., Toledo, Ohio. Folding table-chair. No. 1,304,368; May 20; v. 262; p. 419.
- Purcell, Isaac S., assignor to Tentobed Company, Chicago, Ill. Collapsible cot. No. 1,300,872; Apr. 15; v. 261; p. 554.
- Purcell, Isaac S., Oak Park, assignor to Tentobed Company, Chicago, Ill. Separable cot. No. 1,323,201; Nov. 25; v. 268; p. 702.
- Purcell, Thomas C., assignor of one-half to S. Morris, Chinese Camp, Calif. Pedal control for motor-vehicles. No. 1,314,210; Aug. 26; v. 265; p. 529.
- Purchas, Arthur W., York, England. Eduction-pipe for air-lift pumps. No. 1,291,130; Jan. 14; v. 258; p. 291.
- Purdy, Andrew J., San Francisco, Calif. Motor-cycle. No. 1,300,772; Apr. 15; v. 261; p. 533.
- Purdy, Fred A., Vancouver, British Columbia, Canada. Railway-ticket and form therefor. No. 1,312,205; Aug. 5; v. 265; p. 66.
- Purdy, Hugh, Belfast, Ireland. Window. No. 1,323,910; Dec. 2; v. 269; p. 129.
- Purdy, Simeon D., assignor of one-half to T. S. Simms and Company, Ltd., Fairville, New Brunswick, Canada. Brush. No. 1,300,012; Apr. 8; v. 261; p. 343.
- Pure Coal Briquettes Limited. (See Sutcliffe, Edgar R., assignor.)
- Purington, Andrew B., Bangor, Me. Vending and recording device. No. 1,322,613; Nov. 25; v. 268; p. 591.
- Purnell, Lew E., Lawton, Okla. Reel. No. 1,314,607; Sept. 2; v. 266; p. 25.
- Purnell, Richard H., and R. F. Bridges, Memphis, Tenn. Boll-cotton separator and cleaner. No. 1,304,804; May 27; v. 262; p. 540.
- Purnhagen, William, St. Louis, Mo. Detachable shoe element. No. 1,301,601; Apr. 22; v. 261; p. 736.
- Purnhagen, William, St. Louis, Mo. Detachable shoe element. No. 1,311,914; Aug. 5; v. 265; p. 12.
- Purple, George E., La Grange, assignor to Flexible Steel Lacing Co., Chicago, Ill. Lamp-guard. No. 1,298,397; Mar. 25; v. 260; p. 656.
- Purple, George E., La Grange, assignor to Flexible Steel Lacing Company, Chicago, Ill. Securing device for lamp-guards. No. 1,298,398; Mar. 25; v. 260; p. 656.
- Purple, Harry J., Newton, assignor to United Drug Company, Boston, Mass. Shaving-stick. No. 1,320,351; Oct. 28; v. 267; p. 620.
- Purviance, Bruce R., and S. J. Bellota, Calif. Scraper. No. 1,325,880; Dec. 23; v. 269; p. 623.
- Purviance, Samuel J. (See Purviance, Bruce R. and S. J.)
- Purvis, George, Port Huron, Mich. Ash-ejector. No. 1,305,564; June 3; v. 263; p. 64.
- Purvis, George, Detroit, Mich. Soot-ejector. No. 1,305,565; June 3; v. 263; p. 64.
- Purvis, Robert C., Seaford, Del. Protective armor for pneumatic tires. No. 1,299,225; Apr. 1; v. 261; p. 138.
- Pusareski, Michael, Lynn, Mass. Heel-affixing machine. No. 1,323,648; Dec. 2; v. 269; p. 79.
- Pusey, Arthur W. (See Miller, William S., assignor.)
- Püski, Ladislav. (See Balogh and Püski.)
- Puter, Stephen A. D., Berkely, Calif., and E. J. Boyler, New Haven, Conn., assignors to Duplex Snap Fastener Co. Inc. Separable fastener. No. 1,313,331; Aug. 19; v. 265; p. 330.
- Putkowski, Wacław, Jersey City, N. J. Electric vibrator for retouching implements. No. 1,325,375; Dec. 16; v. 269; p. 511.
- Putnam, Alden L., assignor to Detroit Pressed Steel Company, Detroit, Mich. Vehicle-wheel hub. No. 1,295,060; Feb. 18; v. 259; p. 551.
- Putnam, Alden L., assignor to Detroit Pressed Steel Company, Detroit, Mich. Demountable rim. No. 1,295,792; Feb. 25; v. 259; p. 743.
- Putnam, Alden L., assignor to Detroit Pressed Steel Company, Detroit, Mich. Metallic wheel. No. 1,296,849; Mar. 11; v. 260; p. 268.
- Putnam, Alden L., assignor to Detroit Pressed Steel Company, Detroit, Mich. Convertible dual-wheel construction. No. 1,297,243; Mar. 11; v. 260; p. 356.
- Putnam, Alden L., assignor to Detroit Pressed Steel Company, Detroit, Mich. Vehicle-wheel. No. 1,298,399; Mar. 25; v. 260; p. 656.
- Putnam, Alden L., assignor to Detroit Pressed Steel Company, Detroit, Mich. Vehicle-wheel. No. 1,321,848; Nov. 18; v. 268; p. 396.
- Putnam, Alden L., assignor to Detroit Pressed Steel Company, Detroit, Mich. Forming tapering cross-section disks. (Reissue.) No. 14,713; Aug. 19; v. 265; p. 432.
- Putnam, Charles E. (See Murray and Putnam.)
- Putnam, Charles E., Portland, Oreg. Automobile-bed. No. 1,318,589; Oct. 14; v. 267; p. 239.
- Putnam, Charles E., Portland, Oreg. Automobile bed-pad. No. 1,318,590; Oct. 14; v. 267; p. 239.
- Putnam, Fred A., Melrose, assignor to Markem Machine Company, Boston, Mass. Making printed impressions. No. 1,314,211; Aug. 26; v. 265; p. 530.
- Putnam, Israel C., East Hartford, Conn., assignor of one-half to H. C. Collard, Springfield, Mass. Grinding-machine. No. 1,323,490; Dec. 2; v. 269; p. 50.
- Putnam, Salmon W., 3d, assignor to A. H. Ingle, Rochester, N. Y. Tool-mounting for lathes. No. 1,326,138; Dec. 23; v. 269; p. 670.
- Putnam, Salmon W., 3d, assignor to A. H. Ingle, Rochester, N. Y. Quartering attachment for driving-wheel lathes. No. 1,326,783; Dec. 30; v. 269; p. 829.
- Putnam, Walter J., Deposit, N. Y. Fastening device. No. 1,306,277; June 10; v. 263; p. 230.
- Putnam, William H., assignor to Madison-Kipp Lubricator Company, Madison, Wis. Lubricator. No. 1,313,204; Aug. 12; v. 265; p. 290.
- Putra, Samuel, Lansford, Pa. Cobbler's pliers. No. 1,320,915; Nov. 4; v. 268; p. 105.
- Putsch, August, South Bethlehem, Pa., assignor of one-half to F. O. Dettmann, New York, N. Y. Vertical coke-oven. No. 1,292,874; Jan. 28; v. 258; p. 762.
- Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Bead-trimming machine. No. 1,325,578; Dec. 23; v. 269; p. 566.
- Putt, Harlie O., Elkhardt, Ind. Electromagnetic circuit-interrupter. No. 1,302,847; May 6; v. 262; p. 70.
- Putt, Harlie O., assignor to A. H. Beardsley, Elkhardt, Ind. Impulser for magnetos. No. 1,326,529; Dec. 30; v. 269; p. 781.
- Puttaert, Henry F. J. (See Puttaert, Jean F. and H. F. J.)
- Puttaert, Jean F. and H. F. J., San Francisco, Cal. Manufacture of pulp and paper from garbage. No. 1,294,163; Feb. 11; v. 259; p. 308.
- Puttergill, William H., Herne Hill, London, England. Brake and wheel-guard for vehicles. No. 1,326,093; Dec. 23; v. 269; p. 662.
- Puttergill, William H., Herne Hill, London, England. Safety-guard for the front wheels of motor road-vehicles. No. 1,326,094; Dec. 23; v. 269; p. 662.
- Pycha, James J. (See Kebl, Albert A., assignor.)
- Pye, Bertram J., and H. Rabbes, Oakland, Calif. Fuel-vaporizer. No. 1,310,873; July 22; v. 264; p. 624.
- Pyle-National Company, The. (See Dake, Charles W., assignor.)
- Pyle-National Electric Headlight Company. (See Young, Otis W., assignor.)
- Pyle-National Company, The. (See Dake, Charles W., assignor.)
- Pyle, William W., Erick, Okla. Churn-dash. No. 1,292,643; Jan. 28; v. 258; p. 707.
- Pym, Charles F., Detroit, Mich., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for placing lasting-binders. No. 1,306,120; June 10; v. 263; p. 198.
- Pym, Charles F., Detroit, Mich., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-binder. No. 1,306,121; June 10; v. 263; p. 198.
- Pym, Charles H. and E. J. Witcombe, Wellington, New Zealand. Gage for wheels of motor-cars and the like. No. 1,298,090; Mar. 25; v. 260; p. 590.
- Pyrene Manufacturing Company. (See Eckelmann, Luis E., assignor.)
- Pyrene Manufacturing Company. (See Eckelmann and Hertzberg, assignors.)
- Pyrene Manufacturing Company. (See Ferguson, George E., assignor.)
- Pyrene Manufacturing Company. (See Hertzberg, Harry, assignor.)
- Pyrene Manufacturing Company. (See Lee, Robert W., assignor.)
- Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
- Pyroelectric Instrument Co. (See Northrup, Edwin F., assignor.)
- Q. & C. Company. (See Zimmerman, Emil C., assignor.)
- Quackenbush, Cleveland H., and J. C. Smedley, Cleveland, Ohio, assignors to General Electric Company. Apparatus for drawing glass cane and glass tubing. No. 1,325,265; Dec. 16; v. 269; p. 491.
- Quackenbush, Clinton L. (See Quackenbush, Harvey E. and C. L.)
- Quackenbush, Farries R., Goshen, N. Y. Sanitary toilet-seat cover. No. 1,304,511; May 20; v. 262; p. 447.
- Quackenbush, Harvey E. and C. L., Bloomfield, N. J., assignors, by mesne assignments, to General Electric Company. Glass-blowing apparatus. No. 1,313,205; Aug. 12; v. 265; p. 290.



## Alphabetical list of patentees—Continued.

- Quade, Frank H., Jr., Fresno, Calif. Pneumatic separator. No. 1,306,024; June 10; v. 263; p. 180.
- Quaint Art Furniture Company, The. (See Thompson, Archibald H., assignor.)
- Quaintance, Cregar B., Denver, Colo. Shoe-lace-tipping device. No. 1,324,745; Dec. 9; v. 269; p. 333.
- Qualman, George, Toledo, Ohio. Hair-drier. No. 1,306,122; June 10; v. 263; p. 198.
- Quam, James P., Milwaukee, Wis. Vacuum cleaning brush. No. 1,301,319; Apr. 22; v. 261; p. 684.
- Quasi-Arc Company. (See Cole, William L., assignor.)
- Quass, Charles E., assignor to J. F. O'Dea, Canton, Ohio. Wall construction. No. 1,297,906; Mar. 18; v. 260; p. 527.
- Quass, Charles E., assignor to J. F. O'Dea, Canton, Ohio. Wall construction. No. 1,305,492; June 3; v. 263; p. 49.
- Quass, Ralph L. (See Williams and Quass.)
- Quass, Ralph L., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switch-control system. No. 1,293,195; Feb. 4; v. 259; p. 51.
- Quass, Ralph L., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Connecting-circuit for telephone systems. No. 1,303,960; May 20; v. 262; p. 342.
- Quass, Ralph L., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,308,554; July 1; v. 264; p. 100.
- Quass, Ralph L., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system for telephone-exchanges. No. 1,312,808; Aug. 12; v. 265; p. 212.
- Quayle, William O. (See Dow and Quayle.)
- Queirolo, William. (See Riddle and Queirolo.)
- Queisser, Paul. (See Buchwald, Queisser, and Viertel.)
- Queenville, Wilfrid, Morrisburg, Ontario, Canada. Power-transmitting means and control therefor. No. 1,319,030; Oct. 14; v. 267; p. 323.
- Quentell, William P., New York, N. Y. Calculating-machine. No. 1,293,544; Feb. 4; v. 259; p. 132.
- Quentell, William P., New York, N. Y. Proving-sheet. No. 1,295,597; Feb. 25; v. 259; p. 698.
- Quentell, William P., New York, N. Y. Controlling device for adding-machines. No. 1,318,798; Oct. 14; v. 267; p. 278.
- Quentell, William P., New York, N. Y. Adding-machine. No. 1,318,799; Oct. 14; v. 267; p. 273.
- Quick Action Ignition Company. (See Oglesby, Richard A., assignor.)
- Quick, Alfred A., London, England. Apparatus for the conversion of alternating movements into progressive rotary motion. No. 1,293,920; Feb. 11; v. 259; p. 250.
- Quick, Howard L., Brooklyn, N. Y. Focusing device for motion-picture cameras. No. 1,300,773; Apr. 15; v. 261; p. 533.
- Quick, Howard L., Brooklyn, N. Y. Stereoscopic motion-picture camera. No. 1,311,008; July 22; v. 264; p. 649.
- Quigley, Clark H. (See Bugge, Bergitte M., assignor.)
- Quigley Furnace Specialties Co. (See Renkin, William O., assignor.)
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. Index equipment. No. 1,314,425; Aug. 26; v. 265; p. 572.
- Quigley, John T., assignor, by mesne assignments, to Costmeter Company, Boston, Mass. Type-making machine. No. 1,326,876; Dec. 30; v. 269; p. 846.
- Quillin, Alphonso L., Lockney, Tex. Tool-holder. No. 1,317,892; Oct. 7; v. 267; p. 44.
- Quimby, Charles O., Wakefield, Mass. Mop. No. 1,304,094; May 20; v. 262; p. 366.
- Quimby, Clarence E., assignor, by mesne assignments, to The Continental Lens Co., Toledo, Ohio. Lens. No. 1,303,495; May 13; v. 262; p. 218.
- Quimby, Walker S., and F. W. Robinson, assignors to Hanovia Chemical & Manufacturing Company, Newark, N. J. Apparatus for building up objects of quartz glass. No. 1,314,212; Aug. 26; v. 265; p. 530.
- Quin, Thomas S. (See Johnson and Quin.)
- Quinlan, Daniel E., Stoneham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-breast-trimming machine. No. 1,293,196; Feb. 4; v. 259; p. 51.
- Quinlan, Dennis, Blue Plains, D. C. Fastening device. No. 1,307,925; June 24; v. 263; p. 596.
- Quinlan, James A., Southington, Conn. Insignia-holder for automobiles. No. 1,306,390; June 10; v. 263; p. 250.
- Quinn, Charles H., Roanoke, Va. Electric locomotive. No. 1,300,013; Apr. 8; v. 261; p. 344.
- Quinn, Charles H., Roanoke, Va. Electric-generator support. No. 1,318,406; Oct. 14; v. 267; p. 203.
- Quinn, Charles H., Roanoke, Va. Tensioning device for car-dynamos. No. 1,318,407; Oct. 14; v. 267; p. 204.
- Quinn, Ernest J., Richmond, Va., assignor of one-half to B. B. Blanton, Charlotte, N. C. Insulated boiler. No. 1,300,873; Apr. 15; v. 261; p. 554.
- Quinn, John E., Philadelphia, Pa. Manufacturing stockings. No. 1,303,593; May 13; v. 262; p. 236.
- Quinn, John T. (See Moore and Quinn.)
- Quinn, Joseph A. (See Aronson, Hillard A., assignor.)
- Quinn, Marshall A. (See Stewart, Lyman C., assignor.)
- Quinn, Thomas M. (See Schwaller and Quinn.)
- Quint, Michael and P. M., Hays, Kans. Wrench. No. 1,318,176; Oct. 7; v. 267; p. 98.
- Quint, Peter M. (See Quint, Michael and P. M.)
- Quintile, Joseph, Toronto, and C. B. Metcalfe, Guelph, Ontario, Canada. Musical setting or score. No. 1,307,147; June 17; v. 263; p. 422.
- Quinton, Clarence E., assignor to L. W. Riddle, Glen Riddle, Pa. Coupling device for grease-cups and the like. No. 1,304,601; May 27; v. 262; p. 502.
- Quinton, William W., Northbridge, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,316,059; Sept. 16; v. 266; p. 313.
- Quinton, William W., Northbridge, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,316,060; Sept. 16; v. 266; p. 313.
- Quirk, Harry. (See McLeod and Quirk, assignors.)
- Quirk, Michael F. (See McLeod and Quirk.)
- Qviller, Theodor, Lillestrommen, near Christiania, Norway. Sand and splint catcher for wood-pulp plants and the like. No. 1,306,436; June 10; v. 263; p. 259.
- R. Neumann Hardware Co., The. (See Hammesfahr, Julius, assignor.)
- R. Neumann Hardware Co., The. (See Isidor, Joseph S., assignor.)
- R. Thomas and Sons Company, The. (See Lawson, Joe S., assignor.)
- R. Wallace & Sons Mfg. Co. (See Clulee, Harry I., assignor.)
- R. & C. Engineering Company, The. (See Reed, Chase C., assignor.)
- R. D. Swisher Manufacturing Company. (See Folger and Julien, assignors.)
- R. F. Morse Company. (See Smith, George A., assignor.)
- R. H. Gaylord Company. (See Gaylord, Robert H., assignor.)
- R. Hoe and Co. (See Buringer, Ralph R., assignor.)
- R. Hoe and Co. (See Busk, Anthony S., assignor.)
- R. Hoe and Co. (See Hawk, Roscoe C., assignor.)
- R. Hoe and Co. (See Niles, Irving F., assignor.)
- R. Hoe and Co. (See Roosen, Oscar, assignor.)
- R. Hoe and Co. (See Schmidt, Louis A., assignor.)
- R. Hoe and Co. (See Sheldon, Edward P., assignor.)
- R. Hoe and Co. (See Smith, Ernest J., assignor.)
- R. Hoe and Co. (See Tornberg, Isidor, assignor.)
- R. Hoe and Co. (See White, Bruce C., assignor.)
- R. J. Reynolds Tobacco Company. (See Reynolds, Richard J., assignor.)
- R. K. Le Blond Machine Tool Company, The. (See Groene, William F., assignor.)
- R. K. Le Blond Machine Tool Company, The. (See Groene and Hoelscher, assignors.)
- R. K. Le Blond Machine Tool Company, The. (See Schellenbach, William L., assignor.)
- R. M. Hvid Company. (See Blakely, Edward B., assignor.)
- R. S. Manufacturing Company. (See Ream, Fred H., assignor.)
- R. W. Ebeling Company. (See Ebeling, Robert W., assignor.)
- R. E. D. Engine Company. (See Ford, Eugene A., assignor.)
- Raab, Henry C., Garrettsville, and J. H. Dundon, Youngstown, Ohio. Valve. No. 1,312,644; Aug. 12; v. 265; p. 180.
- Rabbes, Henry. (See I'ye and Rabbes.)
- Rabbeth, Francis J., Redlands, Calif. Fish-lure. No. 1,315,408; Sept. 9; v. 266; p. 181.
- Rabczynski, Kasimir J., Boston, Mass. Crutch. No. 1,318,505; Oct. 14; v. 267; p. 223.
- Rabe, Otto. (See Turner, Samuel J., assignor.)
- Rabensdorf, William W. (See Massey and Rabensdorf.)
- Raby, Warren W., Hill City, Minn. Stump collecting and piling machine. No. 1,325,579; Dec. 23; v. 269; p. 566.
- Rabin, Allen H. (See Haskins, Butler J., assignor.)
- Rabinovitz, Louis, Montclair, N. J., assignor to Ellis-Foster Company. Regulating the oxidation of ammonia. No. 1,304,707; May 27; v. 262; p. 522.
- Rabinowitch, A. (See Baron, Mark, assignor.)
- Race, George W., and F. O. Robertson, Los Angeles, Cal., assignors to J. A. Kidwell, Cleveland, Ohio. Savings-bank. No. 1,295,061; Feb. 18; v. 259; p. 551.
- Racer, Roscoe C., Salt Lake City, Utah. Resilient wheel. No. 1,302,215; Apr. 29; v. 261; p. 885.
- Rachals, Walter, Bordon, Ohio. Shearing-machine. No. 1,298,783; Apr. 1; v. 261; p. 39.
- Racine Engine and Machinery Co. (See Fitch, John W., assignor.)
- Racine Handy Manufacturing Company. (See Mansfield, Harry R., assignor.)
- Rackstraw, Albert V., Bedford, Ohio. Tractor. No. 1,292,047; Jan. 21; v. 258; p. 542.
- Rackstraw, Albert V., Bedford, Ohio. Tractor. No. 1,311,577; July 29; v. 264; p. 788.
- Rácy, Gábor, Bridgeport, Conn. Flour-sifter. No. 1,310,543; July 22; v. 264; p. 563.
- Racz, George, Chicago, Ill. Window-cleaner. No. 1,309,302; July 8; v. 264; p. 267.
- Radabaugh, Ira M., assignor to L. Strauss, Spokane, Wash. Key-fastener. No. 1,321,074; Nov. 4; v. 268; p. 135.



- Radcliff, Bradford S., North Bend, Oreg. Hasp. No. 1,313,800; Oct. 14; v. 267; p. 273.
- Radcliffe, Arthur A., Waukegan, Ill. Surgical splint. No. 1,326,530; Dec. 30; v. 269; p. 781.
- Radcliffe, Charles H., Chicago, Ill. Fishhook-holder. No. 1,315,986; Sept. 16; v. 266; p. 300.
- Radel, Frank, Phoenixville, Pa. Bath-paddle. No. 1,291,131; Jan. 14; v. 258; p. 292.
- Rader, Ira, Kansas City, Mo. Tractor. No. 1,290,347; Jan. 7; v. 258; p. 81.
- Radford, Stephen C., Oshkosh, Wis. Excelsior. No. 1,324,066; Dec. 9; v. 269; p. 203.
- Radics, Julia, Dayton, Ohio. Envelop. No. 1,324,692; Dec. 9; v. 269; p. 323.
- Radiguer, Charles, assignor to The Société Anonyme Des Etablissements Delaunay-Belleville, St-Denis, France. Header for boiler elements. No. 1,305,163; May 27; v. 262; p. 607.
- Radinse, Rudolf R., Cleveland, Ohio. Rotary brush. No. 1,309,587; July 8; v. 264; p. 320.
- Radinse, Rudolf R., Cleveland, Ohio. Rotary brush. No. 1,326,372; Dec. 30; v. 269; p. 750.
- Radium Chemical Company. (See Wolff, Willy, assignor.)
- Radke, Micheal W., San Bernardino, Calif. Water-gate. No. 1,299,027; Apr. 1; v. 261; p. 95.
- Radlein, Albert L., Chicago, Ill. Spacing-sleeve. No. 1,318,591; Oct. 14; v. 267; p. 239.
- Radley, Guy R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,300,484; Apr. 15; v. 261; p. 472.
- Radovanovitch, Demetrius M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-distributing valve mechanism. No. 1,294,532; Feb. 18; v. 259; p. 429.
- Radtke, Albert A., Chicago, Ill. Spark-plug. No. 1,290,780; Jan. 7; v. 258; p. 184.
- Radujkov, Gyoka, and W. H. H. Zentmyer, Philadelphia, Pa. Locking device for automobiles. No. 1,312,354; Aug. 5; v. 265; p. 93.
- Rae, James, assignor to The Watford Manufacturing Company Limited, Watford, England. Collapsible box or case. No. 1,325,330; Dec. 16; v. 269; p. 503.
- Raeger, George C., Waterloo, N. Y. Expansion and fastening device. No. 1,307,418; June 24; v. 263; p. 504.
- Rafert, John D., Minneapolis, Minn. Machine for making presliced bread-loaves. No. 1,309,419; July 8; v. 264; p. 289.
- Rafert, John D., assignor of one-half to H. R. Ward, Minneapolis, Minn. Presliced bread-loaf. No. 1,319,899; Oct. 28; v. 267; p. 536.
- Raff, Charles D., Portland, Oreg. Finger-positioning chart for stringed instruments. No. 1,300,193; Apr. 8; v. 261; p. 384.
- Raff, Ernest G., assignor to Liberty Accessories Corporation, St. Louis, Mo. Whistle. No. 1,309,303; July 8; vol. 264; p. 267.
- Raffel, Ferdinand A., assignor to W. J. H. Strong, Chicago, Ill. Heat-motor. No. 1,310,435; July 22; v. 264; p. 544.
- Raffi, Pasquale, Rome, Italy. Electric insulator. No. 1,324,322; Dec. 9; v. 269; p. 251.
- Raffo, Paul L., New York, N. Y. Drawing-board attachment. No. 1,313,732; Aug. 19; v. 265; p. 405.
- Ragland, Richard H., assignor of one-half to F. Haggenjos, St. Louis, Mo. Implement-hanger. No. 1,314,981; Sept. 2; v. 266; p. 93.
- Ragot, Charles L., Keyport, N. J., and L. F. Ragot, Milford, Pa. Rotary engine. No. 1,302,709; May 6; v. 262; p. 43.
- Ragot, Charles L., New York, N. Y., and L. F. Ragot, Milford, Pa. Rotary engine. No. 1,321,146; Nov. 11; v. 268; p. 212.
- Ragot, Charles L., New York, N. Y., and L. F. Ragot, Milford, Pa. Rotary engine. No. 1,324,408; Dec. 9; v. 269; p. 269.
- Ragot, Louis F. (See Ragot, Charles L. and L. F.)
- Ragsdale, Earl J. W., U. S. Army, assignor to United States Ordnance Company, Washington, D. C. Handgrenade. No. 1,306,718; June 17; v. 263; p. 343.
- Ragsdale, William A., Harrisburg, Pa. Rib for hunters and gins. No. 1,302,216; Apr. 29; v. 261; p. 855.
- Rahhal, Solomon H., Detroit, Mich. Trolley-harp. No. 1,291,132; Jan. 14; v. 258; p. 293.
- Rahling, Henry D., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Switch. No. 1,322,265; Nov. 18; v. 268; p. 473.
- Rahmer, William E., Garrett, Ind. Means for spreading and distributing ballast. No. 1,321,771; Nov. 11; v. 268; p. 331.
- Raiff, Harry L. (See Stubkjare and Raiff.)
- Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
- Rail Joint Company, The. (See Schermerhorn, Edwards F., assignor.)
- Rail Joint Company, The. (See Thomson, William P., assignor.)
- Rail Joint Company, The. (See Van Dresar, Elmer L., assignor.)
- Railway Electric Manufacturing Co. (See Gnifke, Paul, assignor.)
- Railway Electric Manufacturing Company. (See Rugh, Harry O., assignor.)
- Railway and Industrial Engineering Company. (See Kopitz, Carl G., assignor.)
- Railway Utility Company. (See Gray, David E., assignor.)
- Rainbow Pictures Corporation. (See Berwick, John W., assignor.)
- Rainbow Pictures Corporation. (See Shaw, Joseph, assignor.)
- Raine, Gilbert D., Jr., New York, N. Y. Number-board for golfers. No. 1,291,133; Jan. 14; v. 258; p. 293.
- Raines, Richard. (See James and Raines.)
- Raines, Richard, New York, N. Y. Faucet. No. 1,319,112; Oct. 21; v. 267; p. 363.
- Rainey, Harriet R., Wausau, Wis. Griddle. No. 1,301,602; Apr. 22; v. 261; p. 737.
- Rainey, Paul M., West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Isochronizing and synchronizing system. No. 1,292,048; Jan. 21; v. 258; p. 543.
- Rainey, Paul M., West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selecting system. No. 1,303,496; May 13; v. 262; p. 219.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraphic system. No. 1,292,049; Jan. 21; v. 258; p. 543.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Speed-changing device. No. 1,296,850; Mar. 11; v. 260; p. 269.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Rectifier. No. 1,307,517; June 24; v. 263; p. 522.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Distributing apparatus. No. 1,311,915; Aug. 5; v. 265; p. 12.
- Rains, Bert A. (See McPeak and Rains.)
- Rainville, Willie A., St. Jerome, Quebec, Canada. Baby-carriage. No. 1,318,592; Oct. 14; v. 267; p. 239.
- Rairden, James W., Chattanooga, Tenn. Airship. No. 1,290,348; Jan. 7; v. 258; p. 81.
- Raje, Thor, Los Angeles, Calif. Cigarette-holder. No. 1,319,358; Oct. 21; v. 267; p. 410.
- Raker, Harry, Dickson City, Pa. Washboard. No. 1,290,349; Jan. 7; v. 258; p. 81.
- Ralco Manufacturing Company. (See Lofgren, John, assignor.)
- Raleigh, Charles, Jersey City, N. J., and W. V. D. Kelley, Brooklyn, N. Y., assignors, by mesne assignments, to Prizma Incorporated. Color photography. No. 1,325,204; Dec. 16; v. 269; p. 480.
- Ralek, John J., New York, N. Y., assignor to H. R. Huntington, Springfield, Mass. Bookbinder. No. 1,301,320; Apr. 22; v. 261; p. 684.
- Ralko Products Company, The. (See Kopf, Melrose G., assignor.)
- Ralko Products Company, The. (See Lauterbach, Rappel, and Kopf, assignors.)
- Ralko Products Company, The. (See Lauterbach, William F., assignor.)
- Ralls, George E. D., Birmingham, England. Spring suspension mechanism of motor and other vehicles. No. 1,306,926; June 17; v. 263; p. 381.
- Ralls, George E. D., assignor of one-half to The Birmingham and Midland Counties Transport Company, Limited, Birmingham, England. Spring-mounting for motor and other vehicles. No. 1,319,967; Oct. 28; v. 267; p. 549.
- Ralston, Gavin, and E. Blankenship, Commerce, Okla. Artificial hand. No. 1,304,201; May 20; v. 262; p. 385.
- Ralston Purina Company. (See Plaisance, Gerald P., assignor.)
- Ralston, Robert O. (See Henry and Ralson.)
- Ralston Steel Car Company, The. (See Weaver, Robert R., assignor.)
- Ramage, Alexander S., Detroit, Mich. Obtaining temperature changes in gases. No. 1,302,430; Apr. 29; v. 261; p. 927.
- Ramage, Alexander S., Detroit, Mich. Apparatus for exchanging heat. No. 1,302,431; Apr. 29; v. 261; p. 927.
- Ramanauskas, Vincetas, Hartford, Conn. Match-box. No. 1,297,593; Mar. 18; v. 260; p. 459.
- Rambush, Niels E. (See Lynn and Rambush.)
- Ramos, Jose B., Marianao, Cuba. Farming implement. No. 1,321,474; Nov. 11; v. 268; p. 275.
- Ramsay, Erskine, Birmingham, Ala. Rotary dumping apparatus. No. 1,325,536; Dec. 23; v. 269; p. 559.
- Ramsay, Hugh V. (See Tripp and Ramsay.)
- Ramsay, Samuel R. (See Stark and Ramsay.)
- Ramsay, William H. (See White, Edward N., assignor.)
- Ramsbottom, James, Helmsshore, England. Laminated fabric. No. 1,315,409; Sept. 9; v. 266; p. 181.
- Ramsey, Alonzo D., Sedalia, Tenn. Tire-armor. No. 1,290,781; Jan. 7; v. 258; p. 185.
- Ramsey, George W., Washington, D. C., and G. E. Fritz, Chicago, Ill. Anchor for artificial teeth. No. 1,321,126; Nov. 11; v. 268; p. 208.
- Ramsey, James C., Roswell, N. Mex. Game. No. 1,320,274; Oct. 28; v. 267; p. 606.



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- Ramsey, Joseph D., Boston, Mass. Filter. No. 1,294,164; Feb. 11; v. 259; p. 308.
- Ramseyer, William, Exello, Ohio. Razor. No. 1,317,822; Oct. 7; v. 267; p. 31.
- Ramshaw, John R., Edmonton, Alberta, Canada. Curtain-fastener. No. 1,296,427; Mar. 4; v. 260; p. 137.
- Ramsher, John C., Shenandoah, Pa. Film winding and rewinding apparatus. No. 1,313,733; Aug. 19; v. 265; p. 405.
- Ranck, James C., Elmira, N. Y. Gage-wheel for garden-rakes. No. 1,314,365; Aug. 26; v. 265; p. 560.
- Rand, Benjamin G., assignor to The Rand Company, North Tonawanda, N. Y. Wire-stitching machine. No. 1,306,025; June 10; v. 263; p. 180.
- Rand, Charles A. A., Chicago, Ill., assignor by mesne assignments, to International Harvester Company. Rake-tooth. No. 1,297,907; Mar. 18; v. 260; p. 527.
- Rand, Company, The. See Rand, Benjamin G., assignor.)
- Rand, Harry M., Kansas City, Kans. Tape-line. No. 1,290,350; Jan. 7; v. 258; p. 81.
- Rand, James H., Newton, Mass. Self-indexing storage device. No. 1,296,851; Mar. 11; v. 260; p. 269.
- Rand, James H., Newton, Mass. Index. No. 1,311,771; July 29; v. 264; p. 824.
- Rand, James H., North Tonawanda, N. Y. Index-guide. No. 1,294,947; Feb. 18; v. 259; p. 526.
- Rand, James H., North Tonawanda, N. Y. Card-index. No. 1,294,948; Feb. 18; v. 259; p. 526.
- Rand, James H., North Tonawanda, N. Y. Index. No. 1,302,848; May 6; v. 262; p. 70.
- Rand, James H., North Tonawanda, N. Y. Index. No. 1,302,849; May 6; v. 262; p. 70.
- Rand, James H., North Tonawanda, N. Y. Index device. No. 1,302,850; May 6; v. 262; p. 71.
- Rand, James H., North Tonawanda, N. Y. Index. No. 1,306,026; June 10; v. 263; p. 180.
- Rand, James H., North Tonawanda, N. Y. Index. No. 1,312,206; Aug. 5; v. 265; p. 66.
- Rand, James H., North Tonawanda, N. Y. Index. No. 1,317,642; Sept. 30; v. 266; p. 697.
- Rand, James H., North Tonawanda, N. Y. Index device. No. 1,317,643; Sept. 30; v. 266; p. 697.
- Rand, James H., North Tonawanda, N. Y. Index-card and type-writing on the bottom margin thereof. No. 1,317,644; Sept. 30; v. 266; p. 697.
- Rand, James H., Jr., North Tonawanda, N. Y. Index or display frame. No. 1,318,506; Oct. 14; v. 267; p. 223.
- Rand, James H., North Tonawanda, N. Y. Index. No. 1,324,467; Dec. 9; v. 269; p. 280.
- Rand, Le Roy H., Brooklyn, N. Y. Manufacturing dress-shields. No. 1,322,614; Nov. 25; v. 268; p. 591.
- Rand, Richard G., Winston-Salem, N. C. Stone cutting and surfacing machine. No. 1,305,834; June 3; v. 263; p. 114.
- Rand, Silas C., Chicago, Ill. Garment-bag. No. 1,298,257; Mar. 25; v. 260; p. 627.
- Rand, Silas C., Chicago, Ill. Tire-casing. No. 1,316,594; Sept. 23; v. 266; p. 463.
- Randall, Charles A., Haileybury, Ontario, Canada. Ore-classifier. No. 1,313,734; Aug. 19; v. 265; p. 405.
- Randall, Charles F., Boston, Mass., assignor, by mesne assignments, to Universal Patents Company, Woonsocket, R. I. Woven carrier and producing the same. No. 1,291,134; Jan. 14; v. 258; p. 293.
- Randall, Charles F., Boston, Mass., assignor, by mesne assignments, to Universal Patents Company, Woonsocket, R. I. Adjustable strap for gun-slugs and the like. No. 1,292,875; Jan. 28; v. 258; p. 762.
- Randall, Chester J., Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company. Rubber footwear. No. 1,318,593; Oct. 14; v. 267; p. 239.
- Randall, Dwight T., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,298,784; Apr. 1; v. 261; p. 40.
- Randall, Edison E., Kankakee, assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine needle. No. 1,321,552; Nov. 11; v. 268; p. 289.
- Randall-Falchney Company, The. (See Sellar, John A. E., assignor.)
- Randall, Francis L., Nanaimo, British Columbia, Canada. Transmission mechanism. No. 1,298,785; Apr. 1; v. 261; p. 40.
- Randall, Frank A., Chicago, Ill. Concrete-form. No. 1,293,921; Feb. 11; v. 259; p. 251.
- Randall, Frank L., and L. E. Schmid, Erie, Pa. Valve. No. 1,307,986; June 24; v. 263; p. 608.
- Randall & Fries. (See Fries, Edward A., assignor.)
- Randall, Glen, Mitchell, Nebr. Stock-oiler. No. 1,300,297; Apr. 15; v. 261; p. 432.
- Randall, Harold F., Tiffin, Ohio. Drawing-machine. No. 1,325,802; Dec. 23; v. 269; p. 608.
- Randall, John A., Minneapolis, Minn. Dropper-wheel. No. 1,294,703; Feb. 18; v. 259; p. 469.
- Randall, Raymond G., assignor of one-fourth to E. F. Wolcott and one-fourth to C. Wolcott, Grinnell, Iowa. Method of and apparatus for mixing concrete. No. 1,312,207; Aug. 5; v. 265; p. 67.
- Randall, Victor E., assignor of one-half to B. Gwatkin, Battle Creek, Mich. Railway-tie. No. 1,306,437; June 10; v. 263; p. 259.
- Randel, Ivar A., assignor to McCord and Company, Chicago, Ill. Pressed-steel journal-box. No. 1,295,598; Feb. 25; v. 259; p. 699.
- Randle, William A., Weatherford, Okla. Automobile and engine lock attachment. No. 1,317,315; Sept. 30; v. 266; p. 633.
- Randleman, Charles L. (See Randleman, Zouave S. and C. L.)
- Randleman, Zouave S. and C. L., Des Moines, Iowa. Automatic safety-alarm for railway-crossings. No. 1,315,685; Sept. 9; v. 266; p. 229.
- Randol, Glenn T., Marmaduke, Ark. Mechanical gear-shift. No. 1,300,874; Apr. 15; v. 261; p. 554.
- Randolph, Alva F., Bloomfield, Iowa. Poultry-dipping apparatus. No. 1,311,772; July 29; v. 264; p. 824.
- Randolph, James L., Rimersburg, Pa. Holder for anti-skid-chains. No. 1,320,916; Nov. 4; v. 268; p. 105.
- Raney, Clemma K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Grain-shocker. No. 1,293,922; Feb. 11; v. 259; p. 251.
- Raney, Clemma K., Chicago, Ill. Phonograph. No. 1,302,217; Apr. 29; v. 261; p. 885.
- Raney, Clemma K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Harvester. No. 1,319,488; Oct. 21; v. 267; p. 436.
- Raney, Edward J. (See Murphy and Raney.)
- Raney, Estelle C., assignor to The Automatic Reclosing Circuit Breaker Company, Columbus, Ohio. Automatically-reclosing circuit-breaker mechanism. No. 1,302,851; May 6; v. 262; p. 71.
- Raney, Estelle C., assignor to The Automatic Reclosing Circuit Breaker Company, Columbus, Ohio. Circuit-controlling mechanism. No. 1,312,454; Aug. 5; v. 265; p. 113.
- Raney, Henry W., Milstead, Ala. Automatic mail-box signal. No. 1,292,050; Jan. 21; v. 258; p. 543.
- Raney, Henry W., Milstead, Ala. Window-shade bracket. No. 1,296,428; Mar. 4; v. 260; p. 137.
- Rank, Leopold, Chicago, Ill. Towel support and retainer. No. 1,292,512; Jan. 28; v. 258; p. 675.
- Rankin, Harry D., San Francisco, Calif., assignor to Corrosion Extraction Company. Digesting apparatus. No. 1,300,875; Apr. 15; v. 261; p. 555.
- Rankin, John A., Emporia, Kans. Feed-cutting machine. No. 1,306,500; June 10; v. 263; p. 270.
- Rankin, Leonard S., Cambridge, Mass. Vehicle having a convertible body. No. 1,299,381; Apr. 1; v. 261; p. 174.
- Ranney, Clark E., Tulsa, Okla. Well-tube-draining device. No. 1,312,423; Aug. 5; v. 265; p. 107.
- Ransley, William, East Orange, N. J. Filing slots in armatures, stators, and the like. No. 1,322,615; Nov. 25; v. 268; p. 592.
- Ransohoff, Nathan, Cincinnati, Ohio. Tumbling-barrel. No. 1,297,400; Mar. 18; v. 260; p. 419.
- Ransom, Henry M., Mount Bethel, Pa. Turbine water-wheel. No. 1,319,177; Oct. 21; v. 267; p. 377.
- Ransom, Newell H. (See Kimble, Frank, assignor.)
- Ranson, James W., and O. A. Gerstung, assignors to The Abbott Laboratories, Chicago, Ill. Spraying device. No. 1,300,014; Apr. 8; v. 261; p. 344.
- Ransome Concrete Machinery Company. (See Faber, John P., assignor.)
- Rapeport, William H., Philadelphia, Pa. Automobile fender attachment. No. 1,316,853; Sept. 23; v. 266; p. 510.
- Rapp, John W., Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Knockdown construction for airplane-wings and the like. No. 1,325,499; Dec. 16; v. 269; p. 534.
- Rapp, Joseph, Marysville, Wash. Explosive bomb for aerial work. No. 1,291,685; Jan. 14; v. 258; p. 421.
- Rapp, Mathew, Morton, Ill. Straw-spreading machine. (Reissue.) No. 14,715; Aug. 19; v. 265; p. 433.
- Rapp, Mathew, assignor to Kramer Rotary Harrow Company, Morton, Ill. Straw-spreader. No. 1,313,735; Aug. 19; v. 265; p. 406.
- Rappel, Ulrich J. (See Lauterbach, Rappel, and Kopf.)
- Rappez, Nicolas, assignor to Acieries et Fonderies d'Art de Haine Saint Pierre et Metallurgique Lilloise, Société Anonyme, St. Pierre, Belgium. Rammer for compacting sand in molds. No. 1,316,973; Sept. 23; v. 266; p. 533.
- Rapprich, Gustave, assignor to Intertype Corporation, Brooklyn, N. Y. Matrix-assembler for typographical machines. No. 1,321,772; Nov. 11; v. 268; p. 331.
- Rapson, Frederick L., Liverpool, England. Lifting-jack and the like for use on motor road and other vehicles. No. 1,322,947; Nov. 25; v. 268; p. 653.
- Rapson, Frederick L., Liverpool, England. Lifting-jack and the like for use on motor road and other vehicles. No. 1,322,948; Nov. 25; v. 268; p. 653.
- Rapson, Frederick L., Liverpool, England. Lifting-jack and the like for use on motor road and other vehicles. No. 1,322,949; Nov. 25; v. 268; p. 653.
- Rarig, Welden C., Corpus Christi, Tex. Draft mechanism for earthworking implements. No. 1,309,368; July 8; v. 264; p. 279.
- Rasch, Gottlieb. (See Sulwinski and Rasch.)
- Rasch, Ludvik, Christiania, Norway. Centrifugal machine. No. 1,304,905; May 27; v. 262; p. 559.
- Rasey, Edward A., Denver, Colo. Beet-harvester. No. 1,326,422; Dec. 30; v. 269; p. 760.
- Raskin, Isaac, New York, N. Y. Bread-mixer. No. 1,325,205; Dec. 16; v. 269; p. 480.
- Rasmussen, Alvin C. (See Insley and Rasmussen.)



- Rasmussen, Andrew, Racine Junction, Wis. Hacksaw-blade. (Reissue.) No. 1,461,515; Mar. 18; v. 260; p. 545.
- Rasmussen, Christian, Cleveland, Ohio. Electric-circuit maker and breaker. No. 1,312,208; Aug. 5; v. 265; p. 67.
- Rasmussen, Ernest J., U. S. Army, assignor, by mesne assignments, of one-half to H. R. Peck, Washington, D. C. Attachment for machine-guns. No. 1,320,711; Nov. 4; v. 268; p. 65.
- Rasmussen, Ernest R., Milford, Iowa. Garment-stay. No. 1,314,756; Sept. 2; v. 266; p. 53.
- Rasmussen, Frederick W., Mangarama, New Zealand. Machine for use in making wire staples. No. 1,296,696; Mar. 11; v. 260; p. 234.
- Rasmussen, George V., New York, N. Y. Pocket-knife. No. 1,319,532; Oct. 21; v. 267; p. 444.
- Rasmussen, Martin, assignor to Gold Medal Camp Furniture Manufacturing Co., Racine, Wis. Folding frame for portable buildings. No. 1,305,306; June 3; v. 263; p. 15.
- Rasmussen, Martin J., *et al.* (See Rasmussen, Peter, assignor.)
- Rasmussen, Mary E. (See Hammond, Benjamin R., assignor.)
- Rasmussen, Oswald E., West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,293,545; Feb. 4; v. 259; p. 133.
- Rasmussen, Oswald E., West Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,324,847; Dec. 16; v. 269; p. 413.
- Rasmussen, Peter, assignor of three-fourths to M. J. Rasmussen and one-fourth to W. J. Rasmussen, Webster Groves, Mo. Potato-digger. No. 1,315,410; Sept. 9; v. 266; p. 181.
- Rasmussen, Peter A., Chicago, Ill. Rotary engine. No. 1,290,657; Jan. 7; v. 258; p. 155.
- Rasmussen, William J., *et al.* (See Rasmussen, Peter, assignor.)
- Rasor, James E., Sherman, Tex. Vulcanizing apparatus. No. 1,305,408; June 3; v. 263; p. 33.
- Rassat, Frank, Chicago, Ill. Hydrocarbon-burner. No. 1,324,468; Dec. 9; v. 269; p. 281.
- Rassmann, Hugo C., assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Overhead track. No. 1,323,722; Dec. 2; v. 269; p. 93.
- Raster, Walther, assignor to Olympia Games Company, Chicago, Ill. Amusement device. No. 1,319,245; Oct. 21; v. 267; p. 389.
- Ratcliff, John M. (See Wright and Ratcliff.)
- Ratcliff, William H., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-breaker. No. 1,305,165; May 27; v. 262; p. 607.
- Ratcliffe, Roscoe, New Britain, Conn., assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Switch-handle. No. 1,321,333; Nov. 11; v. 268; p. 248.
- Rateau Battu Smoot Engineering Corporation, The. (See Smoot, Charles H., assignor.)
- Rathbun, Henry E., Worcester, Mass. Porch shade or blind. No. 1,301,603; Apr. 22; v. 261; p. 737.
- Rathbun, Henry E., Worcester, Mass. Porch shade or blind. No. 1,302,218; Apr. 29; v. 261; p. 885.
- Ratheram, Joseph, assignor to Baxter & Caunter, Limited, London, England. Work-centering device. No. 1,309,217; July 8; v. 264; p. 251.
- Ratliff, Clyde C., *et al.* (See Laing, James A., assignor.)
- Ratner, Aaron, New York, N. Y. Dish-washing machine. No. 1,311,179; July 29; v. 264; p. 714.
- Rau, Henry V., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Reel. No. 1,324,172; Dec. 9; v. 269; p. 223.
- Rau, John, Indianapolis, Ind. Process and machine for making hollow glassware. No. 1,292,051; Jan. 21; v. 258; p. 543.
- Rau, John, Indianapolis, Ind. Valve mechanism. No. 1,325,331; Dec. 16; v. 269; p. 504.
- Rau, Rodolphe, Geneva, Switzerland. Economizer arrangement for locomotives. No. 1,308,808; July 8; v. 264; p. 175.
- Rauch, Isreal, New York, N. Y. Steam-pipe hanger. No. 1,316,255; Sept. 16; v. 266; p. 350.
- Rauch, Otto, New Braunfels, Tex. Farm implement. No. 1,312,748; Aug. 12; v. 265; p. 200.
- Rauen, Charles H., Seattle, Wash. Dispensing device. No. 1,297,244; Mar. 11; v. 260; p. 357.
- Rauh, Frederic H., South Orange, assignor to J. Wiss & Sons Company, Newark, N. J. Machine for smoothing interior surfaces. No. 1,325,700; Dec. 23; v. 269; p. 589.
- Raul, Aloysius N., and P. S. Springer, Chicago, Ill. Automobile-signal. No. 1,301,741; Apr. 22; v. 261; p. 765.
- Raun, George, Hahn, Tex. Farming implement. No. 1,303,961; May 20; v. 262; p. 342.
- Rautenstrauch, Walter, Fallsdale, N. J. Driving mechanism for motor-vehicles. No. 1,295,793; Feb. 25; v. 259; p. 743.
- Rauwald, John and J. Milwaukee, Wis. Fireproof wall-safe. No. 1,297,492; Mar. 18; v. 260; p. 438.
- Rauwald, Joseph. (See Rauwald, John and J.)
- Raven, Albert L., Mount Vernon, N. Y. Screen for moving pictures. No. 1,315,743; Sept. 9; v. 266; p. 240.
- Ravenel, Susan S., Washington, D. C. Health food. No. 1,303,724; May 13; v. 262; p. 260.
- Ravenna, Giuseppe, Genoa, Italy. Reversible steam-turbine. No. 1,316,974; Sept. 23; v. 266; p. 533.
- Raver, Harvey C., Salem, Ill. Valve for explosive-engines. No. 1,308,112; July 1; v. 264; p. 19.
- Ravert, William I., Hazleton, assignor to Standard Automatic Machine Company, Pittsburgh, Pa. Coin-receiving box for vending-machines. No. 1,297,732; Mar. 18; v. 260; p. 489.
- Ravn, Hans P. (See Welty and Ravn.)
- Ravner, Oystein, and V. M. Goldschmidt, assignors to Det Norske Aktieselskab for elektrokemisk industri, Norsk Industri-Hypotekbank, Christiania, Norway. Producing aluminium compounds. No. 1,302,852; May 6; v. 262; p. 71.
- Rawdon, Charles R., and J. H. Heitmann, St. Louis, Mo. Inner tube for pneumatic tires. No. 1,305,622; June 3; v. 263; p. 76.
- Rawlings, Ruby M. (See Bamforth, Thomas H., assignor.)
- Rawll, Herbert F., Short Hills, N. J., assignor to Christmas Club. Subscription-book. No. 1,298,629; Mar. 25; v. 260; p. 705.
- Rawls, Silas E., Chicago, Ill. Grass-cutting machine. No. 1,316,646; Sept. 23; v. 266; p. 472.
- Rawson, Louis W. (See Bird and Rawson.)
- Ray, Albert H., Ashland, Mass. Printing-machine. No. 1,318,108; Oct. 7; v. 267; p. 85.
- Ray, Arthur J., Liverpool, England, assignor to Automatic Electric Company, Chicago, Ill. Telephone system. No. 1,304,369; May 20; v. 262; p. 419.
- Ray, Charles D., and F. Koerner, Le Mars, Iowa. Electric switch. No. 1,307,833; June 24; v. 263; p. 580.
- Ray, Charles L., Los Angeles, Calif. Direction-indicator and mirror. No. 1,304,370; May 20; v. 262; p. 419.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Plow. No. 1,297,594; Mar. 18; v. 260; p. 459.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Motor-plow. No. 1,297,908; Mar. 18; v. 260; p. 527.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Plow. No. 1,297,909; Mar. 18; v. 260; p. 527.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Cultivator. No. 1,304,512. May 20; v. 262; p. 447.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Disk plow. No. 1,311,773; July 29; v. 264; p. 825.
- Ray, Eugene J., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread severing and holding mechanism. No. 1,298,786; Apr. 1; v. 261; p. 40.
- Ray, Eugene J., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Button-hole-sewing machine. No. 1,303,400; May 13; v. 262; p. 201.
- Ray, Frederick, Short Hills, N. J. Machine for producing piston-rings. No. 1,304,371; May 20; v. 262; p. 419.
- Ray, George W., Niagara Falls, N. Y. Corn-husking implement. No. 1,296,120; Mar. 4; v. 260; p. 70.
- Ray, John W., Philadelphia, Miss. Boll-weevil destroyer. No. 1,305,493; June 3; v. 263; p. 50.
- Ray, Kathryn M., Los Angeles, and D. Hendrickson, Oakland, Calif. Liquid-vending machine. No. 1,314,901; Sept. 2; v. 266; p. 79.
- Ray, Madison B., and E. K. Henderson, Nederland, Colo. Spring-wheel. No. 1,320,173; Oct. 28; v. 267; p. 587.
- Ray, Paul J., Lakewood, Ohio. Sound-producing diaphragm. No. 1,315,411; Sept. 9; v. 266; p. 181.
- Ray, William F., Chicago, Ill. Apparatus for manufacturing tires or interliners. No. 1,292,052; Jan. 21; v. 258; p. 544.
- Ray, William F., Chicago, Ill. Vulcanizer. No. 1,296,215; Mar. 4; v. 260; p. 92.
- Ray, William R., San Francisco, Calif. Stuffing-box take-up. No. 1,326,095; Dec. 23; v. 269; p. 662.
- Ray, William R., San Francisco, Calif. Oil-burner. No. 1,326,466; Dec. 30; v. 269; p. 769.
- Raybestos Company. (See Simpson, Sumner, assignor.)
- Raybon, Sidney C., Dawson, Ga. Driving-gear casing for bicycles. No. 1,325,206; Dec. 16; v. 269; p. 480.
- Rayburn, Alden G. (See Rayburn, Elwyn M. and A. G.)
- Rayburn, Eddy S. (See Rayburn, Elwyn M. and A. G., assignors.)
- Rayburn, Elwyn M. and A. G., Sausalito, Calif. Transmission. No. 1,297,733; Mar. 18; v. 260; p. 490.
- Rayburn, Elwyn M. and A. G., assignors of one-third to E. S. Rayburn, Sausalito, Calif. Transmission. No. 1,297,734; Mar. 18; v. 260; p. 490.
- Rayburn, Kitty, *et al.* (See Clyne, Robert G., assignor.)
- Rayburn, Samuel L., *et al.* (See Clyne, Robert G., assignor.)
- Raycroft, John, assignor of one-half to S. Raycroft, Bridgeport, Conn. Safety-razor-blade holder. No. 1,293,546; Feb. 4; v. 259; p. 133.



## Alphabetical list of patentees—Continued.

- Raycroft, Sarah. (See Raycroft, John, assignor.)
- Rayder, Joseph A., Philadelphia, Pa. Sound-locator. No. 1,305,237; May 27; v. 262; p. 621.
- Raydex Manufacturing Company. (See Otte, Otho M., assignor.)
- Rayfield, Charles L., Chicago, Ill. Carbureter. No. 1,307,457; June 24; v. 263; p. 512.
- Rayfield, Charles L., assignor to Findelsen & Kropf Manufacturing Company, Chicago, Ill. Multifluid multi-jet carburetor. No. 1,310,805; July 22; v. 264; p. 612.
- Rayfield, Charles L., assignor to Findelsen & Kropf Manufacturing Company, Chicago, Ill. Carburetor. No. 1,312,749; Aug. 12; v. 265; p. 200.
- Rayfield, Charles L., assignor to Findelsen & Kropf Manufacturing Company, Chicago, Ill. Carburetor. No. 1,313,332; Aug. 19; v. 265; p. 330.
- Rayfield, George T. (See Bailey and Rayfield.)
- Rayfield, George T., Chicago, Ill. Universal shaft-coupling. No. 1,325,680; Dec. 23; v. 269; p. 586.
- Raymond, Alexander G., Riverside, Conn. Container. No. 1,302,710; May 6; v. 262; p. 43.
- Raymond, Arthur P., A. Mathieu, and C. Lavalle, Webster, Mass. Loom. No. 1,296,697; Mar. 11; v. 260; p. 234.
- Raymond Brothers Impact Pulverizer Company. (See Lachmann, Robert A., assignor.)
- Raymond, Charles F., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,302,432; Apr. 29; v. 261; p. 927.
- Raymond, Freddie A., Spokane, Wash. Automobile wrecking-truck. No. 1,300,649; Apr. 15; v. 261; p. 506.
- Raymond, Harry K., and I. R. Renner, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Bead-core for pneumatic tires. No. 1,310,212; July 15; v. 264; p. 471.
- Raymond, Henry, Ottawa, Ontario, Canada. Razor attachment. No. 1,299,382; Apr. 1; v. 261; p. 174.
- Raymond, Herbert N., Olympia, Wash. Solar transit. No. 1,309,486; July 8; v. 264; p. 301.
- Raymond, John P., San Francisco, Calif. Making forms and containers from fibrous substances. No. 1,326,287; Dec. 30; v. 269; p. 735.
- Raymond, Joseph A., Chicago, Ill. Combined escutcheon and handle. No. 1,291,135; Jan. 14; v. 258; p. 293.
- Raymond, Joseph A., Chicago, Ill. Collapsible candle-holder. No. 1,316,108; Sept. 16; v. 266; p. 322.
- Raymond, Leonard F., assignor of one-half to C. B. King, Bremerton, Wash. Knee-pad. No. 1,308,863; July 8; v. 264; p. 185.
- Raymond, Lillian C., Detroit, Mich. Kitchen-fork. No. 1,313,417; Aug. 19; v. 265; p. 346.
- Raymond, Purley D., Portland, Oreg. Stump-burner. No. 1,315,412; Sept. 9; v. 266; p. 181.
- Raynor, Ben A., Muskogee, Okla. Rail-joint. No. 1,302,971; May 6; v. 262; p. 94.
- Rayson, Russell, Melbourne, Victoria, assignor to S. Harvey, Sydney, Australia. Refrigerating and defrosting chamber. No. 1,319,359; Oct. 21; v. 267; p. 410.
- Rea, Frank, San Francisco, Calif. Insect-destroyer. No. 1,302,972; May 6; v. 262; p. 94.
- Rea, James D. (See Gill, Rea, and Sanderson.)
- Rea, Robert, assignor to Pacific Evaporator Company, Portland, Oreg. Drying material and drier therefor. No. 1,320,569; Nov. 4; v. 268; p. 40.
- Rea, Stanley O., Toronto, Ontario, Canada. Poultry-feeder. No. 1,312,576; Aug. 12; v. 265; p. 167.
- Rea, Verne, Durham, N. C. Mucilage-container. No. 1,295,205; Feb. 25; v. 259; p. 607.
- Reach, William F., Chicopee, Mass., assignor to A. G. Spaulding & Bros., Jersey City, N. J. Tubular ice-skate. No. 1,292,876; Jan. 28; v. 258; p. 762.
- Reach, William F., Chicopee, Mass. Skee attachment for vehicles. No. 1,303,388; May 13; v. 262; p. 199.
- Reach, William F., Chicopee, Mass., assignor to A. G. Spaulding & Bros., Jersey City, N. J. Skee-harness. No. 1,322,820; Nov. 25; v. 268; p. 629.
- Read, Benjamin K., Detroit, Mich., assignor to H. W. Beggs, Vincennes, Ind. Current-interrupter. No. 1,292,644; Jan. 28; v. 258; p. 708.
- Read, Benjamin K., Detroit, Mich., assignor to H. W. Beggs, Vincennes, Ind. Switch. No. 1,302,089; Apr. 29; v. 261; p. 861.
- Read, Charles O., et al. (See Flick, Lorenz, assignor.)
- Read, Charles P., Crafton borough, Pa. Cylinder-lock. No. 1,322,728; Nov. 25; v. 268; p. 612.
- Read, Frank P., Chicago, Ill., assignor to Automatic Container Company. Vertical file. No. 1,323,202; Nov. 25; v. 268; p. 702.
- Read, George B., Bloomington, Ill. Hoisting-jack and control therefor. No. 1,305,006; May 27; v. 262; p. 577.
- Read, Henry L., et al. (See Richardson, Edlison, and Read.)
- Read, J. Burns. (See Coolbaugh, Melville F., assignor.)
- Read, Newton N., Albuquerque, N. Mex. Ointment. No. 1,312,047; Aug. 5; v. 265; p. 37.
- Ready, C. A. (See Snyder, Samuel W., assignor.)
- Ready, William A. (See Balcke and Ready.)
- Reagan Bale Company. (See Taft, John A., assignor.)
- Reagan, Daniel E., Columbus, Ohio. Building-brick. No. 1,319,113; Oct. 21; v. 267; p. 363.
- Reagan, Edgar U. G., assignor to Detroit Steam Motors Corporation, Detroit, Mich. Engine or compressor. No. 1,326,689; Dec. 30; v. 269; p. 810.
- Reagan, Emmet. (See Wood and Reagan.)
- Reagan, John B., Bancroft, Iowa. Poultry-roost. No. 1,301,321; Apr. 22; v. 261; p. 684.
- Reagan, Robert P., et al. (See Rombach, Fred, assignor.)
- Reale, Carlo, Genoa, Italy. Means for scavenging cylinders of two-stroke-cycle combustion engines. No. 1,321,392; Nov. 11; v. 268; p. 260.
- Ream, Edward L., et al. (See Ellis, James H., assignor.)
- Ream, Fred H., assignor to R-S Manufacturing Company, Kansas City, Mo. Universal joint. No. 1,297,968; Mar. 18; v. 260; p. 540.
- Ream, Fred H., assignor to R. S. Manufacturing Company, Kansas City, Mo. Universal joint. No. 1,322,341; Nov. 18; v. 268; p. 488.
- Ream, John, Jacksonville, Fla. Dredging apparatus. No. 1,323,611; Dec. 2; v. 269; p. 73.
- Ream, Myrton E., Chicago, Ill. Child's toilet-seat. No. 1,304,095; May 20; v. 262; p. 366.
- Reap, Michael H., Scranton, Pa. Separator-gate guard. No. 1,317,941; Oct. 7; v. 267; p. 53.
- Reardon, P. H. (See Davol, George K., assignor.)
- Reardon, Robert E., Ottawa, Ontario, Canada. Scalable strainer-carton. No. 1,315,413; Sept. 9; v. 266; p. 181.
- Reardon, Robert E., Ottawa, Ontario, Canada. Closable garbage collector or strainer. No. 1,315,414; Sept. 9; v. 266; p. 182.
- Reardon, Robert E., Ottawa, Ontario, Canada. Explosive target. No. 1,321,849; Nov. 18; v. 268; p. 396.
- Reardon, William J., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Alloy. No. 1,305,166; May 27; v. 262; p. 607.
- Reavell, James A., Beckenham, England. Apparatus for heating liquids. No. 1,317,390; Sept. 30; v. 266; p. 648.
- Reazor, William N., Jr., Elmira, N. Y. Angle-calculator. No. 1,302,590; May 6; v. 262; p. 20.
- Rebel, John, Cleveland, Ohio. Inflatable bathing-garment. No. 1,303,389; May 13; v. 262; p. 199.
- Reber, Emil, and J. Siegwart, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Monoarylsulfo-monoalkylamino-oxyaryl compounds able to be transformed into monoalkylamino-oxyaryl compounds and making same. No. 1,316,804; Sept. 23; v. 266; p. 502.
- Reber, John G., deceased, Chicago, Ill., by Sefton Manufacturing Corporation, Millbrook, N. Y., and Chicago, Ill. Packing box or carton. (Reissue.) No. 14,716; Aug. 19; v. 265; p. 433.
- Rebok, Horace M. (See Rodgers, Robert B., assignor.)
- Rebora, Gino, Milan, Italy. Shutter mechanism for search-lights. No. 1,306,077; June 10; v. 263; p. 190.
- Reboul, Edward A., Philadelphia, Pa. Train control. No. 1,311,246; July 29; v. 264; p. 726.
- Rebours, Jules, Grand Rapids, Mich. Automobile-body. No. 1,326,877; Dec. 30; v. 269; p. 846.
- Rebsamen, Julius, Chicago, Ill. Metallic piston-rod packing. No. 1,321,475; Nov. 11; v. 268; p. 275.
- Rece, Frank S., assignor of one-half to E. H. Epperson, Dallas, Tex. Poultry-decapitator. No. 1,310,294; July 15; v. 264; p. 486.
- Rece, Frank S., Dallas, Tex. Adjustable crib or bed. No. 1,322,616; Nov. 25; v. 268; p. 592.
- Rechnitzer, Alexander, Berlin, Germany, assignor to Autarit-Gesellschaft m. b. H., Vienna, Austria. Calculator. No. 1,292,513; Jan. 28; v. 258; p. 675.
- Reck, Anders R., Hellerup, near Copenhagen, Denmark. Section for sectional boilers. No. 1,322,950; Nov. 25; v. 268; p. 654.
- Reck, L. M., et al. (See Ward, James N., assignor.)
- Reckard, William P., Youngstown, Ohio, assignor to American Sintering Company, Chicago, Ill. Sintering apparatus. No. 1,308,864; July 8; v. 264; p. 185.
- Recke, William, New York, N. Y. Winding device. No. 1,316,109; Sept. 16; v. 266; p. 322.
- Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Weatherproof plural lamp-socket. No. 1,300,774; Apr. 15; v. 261; p. 533.
- Recker, Adolph C., Oakville, assignor to Chase Companies, Inc., Waterbury, Conn. Shade or reflector for incandescent electric lamps. No. 1,320,174; Oct. 28; v. 267; p. 587.
- Record Needle & Manufacturing Co. (See Bernecker, George E., assignor.)
- Recording and Computing Machines Company, The. (See Kennedy, Frank B., assignor.)
- Recording Devices Company, The. (See Keefer, Thomas, assignor.)
- Recording Devices Company, The. (See Keefer, Thomas A., assignor.)
- Records, Paul A., Ochiltree, Tex. Power-transmitting attachment for windmills. No. 1,299,028; Apr. 1; v. 261; p. 95.
- Rector, Alcorn, assignor to Rector Gas Lamp Company, New York, N. Y. Heating and ventilating apparatus. No. 1,292,877; Jan. 28; v. 258; p. 762.
- Rector, Enoch, New York, N. Y. Steam-motor generator. No. 1,309,102; July 8; v. 264; p. 230.
- Rector, Enoch, New York, N. Y. Fluid-operated engine. No. 1,310,712; July 22; v. 264; p. 594.



- Rector Gas Lamp Company. (See Rector, Alcorn, assignor.)
- Rector, Labon F., Columbus, Nebr. Device for grading and washing sand and gravel. No. 1,299,226; Apr. 1; v. 261; p. 138.
- Reddeck, Bernard J. (See McLean, Seline, and Reddeck.)
- Redden, Eugene E., Springfield, Mass. Cushioned wheel. No. 1,301,604; Apr. 22; v. 261; p. 737.
- Reddick, Thomas S., Minneapolis, Minn. Wire-stretcher. No. 1,318,408; Oct. 14; v. 267; p. 204.
- Reddcliffe, John, Hamilton, Ontario, Canada. Attachment for blow-torches. No. 1,297,245; Mar. 11; v. 260; p. 357.
- Reddish, Harry B. (See Stokes and Reddish.)
- Reddix, Edward and J. L., Prichard, Ala. Switch-throwing device. No. 1,325,170; Dec. 16; v. 269; p. 473.
- Reddix, Jacob L. (See Reddix, Edward and J. L.)
- Redeker, John J., and H. L. Thompson, assignors to Elgin Gas Motor Company, Elgin, Ill. Muffler. No. 1,304,096; May 20; v. 262; p. 366.
- Redfern, John E., Cambridge, Mass. Pedal-pad. No. 1,302,853; May 6; v. 262; p. 71.
- Redfield, Casper L. (See Lundquist, Frank A., assignor.)
- Redfield, Casper L., trustee. (See Norstrom, Nils E., assignor.)
- Redfield, Casper L., Chicago, Ill. Stereotyping-machine. No. 1,318,114; Aug. 12; v. 265; p. 272.
- Redfield, Cleveland, Ogden, Utah, assignor to Automatic Controller and Manufacturing Company. Manually-operable controlling device for electric motors. No. 1,296,698; Mar. 11; v. 260; p. 234.
- Redfield, John H., Denver, Colo. Firearm. No. 1,290,845; Jan. 7; v. 258; p. 199.
- Redfield, Josiah B., Omaha, Nebr. Tally-sheet. No. 1,301,742; Apr. 22; v. 261; p. 765.
- Redfish, Robert S., Chicago, Ill. Hog dehairing, polishing, and scraping machine. No. 1,325,956; Dec. 23; v. 269; p. 636.
- Redington, Frank B. (See Milmo and Redington.)
- Redington, Frank B., and M. J. Milmo, Chicago, Ill., assignors to Package Machinery Company, Springfield, Mass. Cutting mechanism. No. 1,296,554; Mar. 4; v. 260; p. 165.
- Redman, Lawrence V., Evanston, and A. J. Weith and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Producing phenolic condensation products. No. 1,310,087; July 15; v. 264; p. 448.
- Redman, Lawrence V., Evanston, and A. J. Weith and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Producing phenolic condensation products. No. 1,310,088; July 15; v. 264; p. 448.
- Redmanol Chemical Products Company. (See Redman, Weith, and Brock, assignors.)
- Redmer, Martin H. J., Philadelphia, Pa. Nut. No. 1,302,854; May 6; v. 262; p. 71.
- Redmond, Charles A., Los Angeles, Cal., assignor to Detroit Motor Governor Corporation, Detroit, Mich. Speed-controlling distributor. No. 1,295,206; Feb. 25; v. 259; p. 608.
- Redmond, Charles C., assignor of one-half to A. M. Fleisher, Los Angeles, Calif. Can opener and closure. No. 1,316,508; Sept. 16; v. 266; p. 398.
- Redmond, George H., D. R. Harriman, jr., and O. L. Richardson, Griffin, Ga.; said Harriman assignor to The Terrell Machine Company, Charlotte, N. C. Bobbin or quill cleaning attachment for looms. No. 1,312,750; Aug. 12; v. 265; p. 200.
- Redmond, James E., Crandall, Ga., assignor to J. S. Pratt, Toledo, Ohio. Scraping and excavating apparatus. (Re-issue.) No. 14,717; Aug. 19; v. 265; p. 433.
- Redmond, Olney, Schenectady, N. Y. Glare-shield. No. 1,306,626; June 10; v. 263; p. 293.
- Redpath, Robert, assignor to The Coventry Ordnance Works, Limited, Coventry, England. Cartridge-feed mechanism especially applicable for automatic guns. No. 1,312,048; Aug. 5; v. 265; p. 37.
- Redpath, Robert, assignor to The Coventry Ordnance Works, Limited, Coventry, England. Automatic gun. No. 1,315,329; Sept. 9; v. 266; p. 166.
- Redpath, Robert and H. Hellberg, assignors to The Coventry Ordnance Works, Limited, Coventry, England. Feed mechanism for automatic guns. No. 1,298,091; Mar. 25; v. 260; p. 591.
- Redpath, Robert, and H. Hellberg, assignors to The Coventry Ordnance Works, Limited, Coventry, England. Automatic time-fuse setter. No. 1,307,639; June 24; v. 263; p. 544.
- Redrup, Charles B., Leeds, England. Valve-gear of internal-combustion engines. No. 1,312,577; Aug. 12; v. 265; p. 167.
- Redrup, William D. (See Triggs and Redrup, assignors.)
- Redtop Electric Company. (See Harth, August, assignor.)
- Redtop Electric Company. (See Rice, Harold A., assignor.)
- Reducing Machine Co., The. (See Brennan, William E., assignor.)
- Reducing Machine Company, The. (See Gardner, James P., assignor.)
- Redway, Charles B., Lowell, Mass. Bookkeeping entry-sheet. No. 1,292,878; Jan. 28; v. 258; p. 763.
- Reece, Asa C., et al. (See Farthing, David J., assignor.)
- Reece, Asa C., et al. (See Reece, John E., assignor.)
- Reece Button Hole Machine Company, The. (See Haglestein, Christian H. T., assignor.)
- Reece Button Hole Machine Company. (See Kiewicz, John, assignor.)
- Reece Button Hole Machine Company, The. (See Reece, Franklin A., assignor.)
- Reece Button Hole Machine Company, The. (See Reece, John, assignor.)
- Reece Button Hole Machine Company, The. (See Zaleski, Frank, assignor.)
- Reece, Franklin A., Hopkinton, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,302,219; Apr. 29; v. 261; p. 885.
- Reece, John, Manchester, assignor to The Reece Button Hole Machine Company, Boston, Mass. Stopping or starting mechanism. No. 1,291,136; Jan. 14; v. 258; p. 293.
- Reece, John E., assignor of one-third to A. C. Reece and one-third to W. J. Pierce, administrator, Butler, Tenn. Corn-harvester. No. 1,320,917; Nov. 4; v. 268; p. 105.
- Reece Shoe Machinery Company. (See Perri, Angelo, assignor.)
- Reece Shoe Machinery Company. (See Schoenky, August R., assignor.)
- Reed, Andrew, Coffeyville, Kans. Ship-protector. No. 1,314,902; Sept. 2; v. 266; p. 79.
- Reed, Andrew H., Kansas City, Mo. Adjustable axle for tractors. No. 1,301,971; Apr. 29; v. 261; p. 839.
- Reed, Andrew H., assignor of one-half to H. Sahler, Kansas City, Mo. Adjustable mounting for tractor-controlling mechanism. No. 1,305,932; June 3; v. 263; p. 133.
- Reed, Bennie J. (See Reed, Charles W., assignor.)
- Reed, C. E. (See Humason, Granville, assignor.)
- Reed, Charles E., Chicago, Ill. Machine for turning heels. No. 1,305,007; May 27; v. 262; p. 577.
- Reed, Charles H., and W. J. Von Buchwald, Philadelphia, Pa. Flagstaff. No. 1,320,412; Nov. 4; v. 268; p. 11.
- Reed, Charles J., Philadelphia, Pa. Process of and apparatus for grading solid materials. No. 1,291,137; Jan. 14; v. 258; p. 294.
- Reed, Charles J., Glenside, Pa. Spark-gap mechanism. No. 1,309,913; July 15; v. 264; p. 418.
- Reed, Charles L., Rochester, N. Y. Mixer. No. 1,300,015; Apr. 8; v. 261; p. 344.
- Reed, Charles R., et al. (See Clyne, Robert G., assignor.)
- Reed, Charles W., assignor to B. J. Reed, Modesto, Calif. Belt stretcher and clamp. No. 1,299,227; Apr. 1; v. 261; p. 138.
- Reed, Chase C., assignor to The R. & C. Engineering Company, Toledo, Ohio. Rotary plowing-cylinder. No. 1,318,920; Oct. 14; v. 267; p. 302.
- Reed, Clarence E., Houston, Tex. Pipe-tongs. No. 1,316,185; Sept. 16; v. 266; p. 337.
- Reed, Clyde M., Akron, Ohio. Compass-saw brace. No. 1,318,594; Oct. 14; v. 267; p. 240.
- Reed, Edward, Basin, Wyo. Device for pulling up rod-lines. No. 1,291,138; Jan. 14; v. 258; p. 294.
- Reed Foundry & Machine Co. (See Mason, Jason B., assignor.)
- Reed, Frank E., Rochester, N. Y. Automobile control-lever. No. 1,319,418; Oct. 21; v. 267; p. 422.
- Reed, George B., Philadelphia, Pa. Method of and apparatus for engine-braking. No. 1,300,016; Apr. 8; v. 261; p. 344.
- Reed, Harry E., Smith Center, Kans. Wagon end-gate. No. 1,303,390; May 13; v. 262; p. 199.
- Reed, Herbert C., Stamford, Conn. Manufacturing oxalic acid. No. 1,310,713; July 22; v. 264; p. 594.
- Reed, Hugh T., Chicago, Ill. Calendar. No. 1,299,029; Apr. 1; v. 261; p. 95.
- Reed, John G., Pasadena, assignor, by mesne assignments, of one-third to J. L. Robbins, Oxnard, Cal. Insect-trap. No. 1,295,207; Feb. 25; v. 259; p. 608.
- Reed, John G., Los Angeles, Calif. Music-leaf turner. No. 1,308,555; July 1; v. 264; p. 100.
- Reed, John W., Philadelphia, Pa. Razor-blade holder. No. 1,317,316; Sept. 30; v. 266; p. 634.
- Reed, Lemon M., assignor to H. E. Gynn, Cleveland, Ohio. Spring-seat. No. 1,303,962; May 20; v. 262; p. 342.
- Reed, Lemon M., assignor to H. E. Gynn, Cleveland, Ohio. Mixing apparatus for making cementitious products. No. 1,317,942; Oct. 7; v. 267; p. 53.
- Reed, Luke D., Burnham, Ill. Automobile-chassis and yieldable and shock-absorbing bearing for axles. No. 1,314,982; Sept. 2; v. 266; p. 93.
- Reed, Matthew H., Chicago, Ill. Lawn-mower. No. 1,304,372; May 20; v. 262; p. 419.
- Reed, Richard D., assignor to The H. B. Smith Company, Westfield, Mass. Boiler. No. 1,312,353; Aug. 5; v. 265; p. 93.
- Reed, Robert E., Morrill, Nebr. Cobbler's or shoemaker's knife. No. 1,309,746; July 15; v. 264; p. 387.
- Reed, Thomas H., Newark, N. J. Phonograph-reproducer. No. 1,321,476; Nov. 11; v. 268; p. 275.
- Reed, Walter C., Dalton, assignor to The Teleelectric Company, Pittsfield, Mass. Circuit-controlling apparatus. No. 1,290,658; Jan. 7; v. 258; p. 156.
- Reed, Walter C., Dalton, assignor, by mesne assignments, to P. W. Goewy, Pittsfield, Mass. Apparatus for forming master-records for music-sheets. No. 1,318,177; Oct. 7; v. 267; p. 99.



## Alphabetical list of patentees—Continued.

- Reed, Walter C., Dalton, assignor to P. W. Goewey, Pittsfield, Mass. Circuit-controller. No. 1,318,178; Oct. 7; v. 267; p. 99.
- Reed, Walter W., Rockland, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Electrically-heated apparatus for moistening shoes. No. 1,294,533; Feb. 18; v. 259; p. 430.
- Reed, William. (See Garrison, Perry J., assignor.)
- Reed, William N., Hackensack, N. J. Flower-stand. No. 1,300,775; Apr. 15; v. 261; p. 534.
- Reed, William R., Baltimore, Md. Grain-conveyer. No. 1,313,418; Aug. 19; v. 265; p. 346.
- Reeder, Charles, Ephrata, Wash. Tire-expander. No. 1,303,497; May 13; v. 262; p. 219.
- Reeder, Francis H. H., Ogden, Utah. Shoe-polish container. No. 1,322,342; Nov. 18; v. 268; p. 488.
- Reeder, Ralph J., Moline, Ill. Clamp. No. 1,319,900; Oct. 28; v. 267; p. 537.
- Reeder, Thomas A., Baltimore, Md. Lock for automobiles. No. 1,325,307; Dec. 16; v. 269; p. 500.
- Reese, Berthold J., New York, N. Y. Lamp. No. 1,308,809; July 8; v. 264; p. 175.
- Reese, Charles L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Forming bursting charges. No. 1,307,599; June 24; v. 263; p. 537.
- Reese, Charles L., Wilmington, Del., assignor to E. I. du Pont de Nemours and Company. Bursting charge for containers intended to be exploded, and forming said charge. No. 1,309,588; July 8; v. 264; p. 321.
- Reese, David W., assignor to J. and M. Hoch, East Cleveland, Ohio. Vise. No. 1,302,220; Apr. 29; v. 261; p. 886.
- Reese, Edward B., assignor to Swartz Electric Co., Indianapolis, Ind. Mechanically-operated electrical switch. No. 1,293,547; Feb. 4; v. 259; p. 133.
- Reese, Franklin J., Pittsburgh, Pa. Ratchet mechanism. No. 1,318,462; Oct. 14; v. 267; p. 214.
- Reese, Louis C. (See Pletscher and Reese.)
- Reese, Louis C., assignor to Werner & Pfeleiderer Co., Inc., Saginaw, Mich. Measuring the temperature in mixing machines and the like. No. 1,294,165; Feb. 11; v. 259; p. 308.
- Reese, Rudolph R., Startup, Wash. Insulator. No. 1,291,139; Jan. 14; v. 258; p. 294.
- Reeser, Marguerite, and W. W. Stebbins, Newark, N. J. Seamless dress. No. 1,309,487; July 8; v. 264; p. 301.
- Reeve, Carlton H., Chicago, Ill. Blank for making foldable keyboard-indicators. No. 1,293,923; Feb. 11; v. 259; p. 251.
- Reeve, Carlton H., Chicago, Ill. Keyboard-indicator. No. 1,293,924; Feb. 11; v. 259; p. 251.
- Reeve, Edward, Birmingham, assignor to The Menco-Elma Syndicate Limited, London, England. Change-speed gearing. No. 1,316,740; Sept. 23; v. 266; p. 491.
- Reeve, Henry E., Brooklyn, N. Y. Electric-gong support. No. 1,295,599; Feb. 25; v. 259; p. 699.
- Reeve, Howard T., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,298,092; Mar. 25; v. 260; p. 591.
- Reeve, Howard T., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,304,805; May 27; v. 262; p. 540.
- Reeve, James H., Salt Lake City, Utah. Recovering potassium salts from saline mixtures containing the same. No. 1,304,097; May 20; v. 262; p. 367.
- Reeve, James H., Oswego, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Treating saline liquors. No. 1,305,566; June 3; v. 263; p. 64.
- Reeve, Sidney A., Tompkinsville, N. Y. Railway-car. No. 1,300,776; Apr. 15; v. 261; p. 534.
- Reeve, Sidney A., New Brighton, N. Y. Musical notation. No. 1,313,015; Aug. 12; v. 265; p. 253.
- Reeve, William B., Des Moines, Iowa. Heater device. No. 1,316,976; Sept. 23; v. 266; p. 533.
- Reeves, Carl H. (See McClure, Reeves, and Boulton.)
- Reeves, Herbert K., London, England. Parachute. No. 1,310,839; July 22; v. 264; p. 619.
- Reeves, Ira L., U. S. Army. Projectile and means for directing the same. No. 1,295,794; Feb. 25; v. 259; p. 744.
- Reeves, Samuel H., assignor of one-half to C. R. Bollier, Alamosa, Colo. Treating preservatives. No. 1,302,090; Apr. 29; v. 261; p. 862.
- Reeves, William C., Eldorado, Okla. Cotton-cleaner. No. 1,311,180; July 29; v. 264; p. 714.
- Refining Products Corporation. (See Mumford, Russell W., assignor.)
- Reflectolyte Company, The. (See Adam, Harry C., assignor.)
- Refrigeration Patent Syndicate. (See McMahon, Luke A., assignor.)
- Refrigerating Specialties Company. (See Hansen, Charles C., assignor.)
- Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. No. 1,307,022; June 17; v. 263; p. 399.
- Regan, Joseph C., New Britain, assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Electric switch. No. 1,313,641; Aug. 19; v. 265; p. 388.
- Regan, Robert J., Bayonne, N. J. Change-making machine. No. 1,293,548; Feb. 4; v. 259; p. 133.
- Regan, William J. (See Milliken and Regan.)
- Regenbogen, Conrad, and H. Techel, assignors to Fried. Krupp Aktiengesellschaft Germaniaerft, Kiel-Gaarden, Germany. Submarine boat. No. 1,305,238; May 27; v. 262; p. 621.
- Regenbogen, Conrad, and P. A. Ritter, Kiel, Germany. Working cylinder for internal-combustion engines. No. 1,305,494; June 3; v. 263; p. 50.
- Regenstein, Julius, Chicago, Ill. Envelop-making machine. No. 1,298,093; Mar. 25; v. 260; p. 591.
- Rehdori, Louis, assignor to Joseph N. Smith & Co., Detroit, Mich. Automobile-door latch. No. 1,316,595; Sept. 23; v. 266; p. 463.
- Rehuss, John G. (See Tily and Rehuss.)
- Rehuss, Martin O. (See Tily and Rehuss.)
- Rehm, Benjamin, Crystal City, Mo., assignor to Pittsburgh Plate Glass Company. Bevel-glass-polishing machine. No. 1,290,659; Jan. 7; v. 258; p. 166.
- Rehmer, Carl C. (See Chadwick and Rehmer.)
- Reich, Ernest. (See Heller and Reich.)
- Reich, Ernest, assignor to Hill Pump Valve Company, Chicago, Ill. Seal. No. 1,324,566; Dec. 9; v. 269; p. 299.
- Reich, Fred A., Oshkosh, Wis. Heating device for motor-vehicles. No. 1,300,017; Apr. 8; v. 261; p. 344.
- Reich, Henry C., New York, N. Y. Reinforcing and repair bracket. No. 1,303,391; May 13; v. 262; p. 199.
- Reichard, Vern E., Perry, N. Y. Collapsible box. No. 1,308,865; July 8; v. 264; p. 185.
- Reichenbach, Henry M., Rochester, N. Y. Carbureting mixtures. No. 1,292,053; Jan. 21; v. 258; p. 544.
- Reicher, Jacob, Baltimore, Md. Night-light. No. 1,309,545; July 8; v. 264; p. 312.
- Reicher, Max M., et al. (See Arnheim, Lewis, assignor.)
- Reichert, John, Racine, Wis. Tire-chain. No. 1,292,879; Jan. 28; v. 258; p. 763.
- Reichhelm, George L., New Haven, Conn. Gasifier and fixing device. No. 1,310,927; July 22; v. 264; p. 634.
- Reichhelm, George L., New Haven, Conn. Method and apparatus for burning combustible fluids. No. 1,310,928; July 22; v. 264; p. 634.
- Reichman, David G. (See Reisfeld and Reichman.)
- Reid, Andrew J., Bussey, Iowa. Replanter. No. 1,324,618; Dec. 9; v. 269; p. 309.
- Reid, Andrew S. and R. Beverly, Mass. Table-feed of grinding or like machines. No. 1,293,621; Feb. 4; v. 259; p. 150.
- Reid, Caleb C., New Burnside, Ill. Railway-crossing signal. No. 1,299,383; Apr. 1; v. 261; p. 174.
- Reid, Charles, Dublin, Ireland. Rifle-target. No. 1,304,602; May 27; v. 262; p. 502.
- Reid, Charles P., Louisville, Ky. Broom. No. 1,313,206; Aug. 12; v. 265; p. 290.
- Reid, Chauncey S., Brenham, Tex. Portable blacking kit. No. 1,293,925; Feb. 11; v. 259; p. 251.
- Reid, Edwin S. (See Smith, Henry A. W., assignor.)
- Reid, Eldro M., Pocatello, Idaho. Tire. No. 1,302,091; Apr. 29; v. 261; p. 862.
- Reid, Elton F., Waco, Tex. Liquid-dispensing apparatus. No. 1,291,140; Jan. 14; v. 258; p. 294.
- Reid-Geisler Manufacturing Co. (See Reid, Willard M., assignor.)
- Reid, George B., Seattle, Wash. Shock-absorber. No. 1,326,288; Dec. 30; v. 269; p. 735.
- Reid, George H., assignor of one-half to D. B. Brown, Orangeville, Ontario, Canada. Traction-wheel. No. 1,297,493; Mar. 18; v. 260; p. 438.
- Reid, James E., Moorestown, N. J., and F. W. Side, Camden, N. J.; said Side assignor to said Reid. Hot-air dental syringe. No. 1,313,861; Aug. 19; v. 265; p. 429.
- Reid, James E., Moorestown, and F. W. Side, Camden, N. J.; said Side assignor to said Reid. Dental-switch-board unit. No. 1,315,330; Sept. 9; v. 266; p. 167.
- Reid, James H. (See Slocum, Frank L., assignor.)
- Reid, James H., Newark, N. J., assignor to International Nitrogen Company. Making calcium or other metal nitrocarbide. No. 1,297,246; Mar. 11; v. 260; p. 357.
- Reid, James H., Newark, N. J., assignor, by mesne assignments, to International Nitrogen Co. Procuring and securing products from carbohydrates. No. 1,321,553; Nov. 11; v. 268; p. 289.
- Reid, James H., Newark, N. J., assignor, by mesne assignments, to International Nitrogen Co. Means actuated by alternating electric current for controlling or operating electric furnaces or other mechanisms. No. 1,321,554; Nov. 11; v. 268; p. 289.
- Reid, John, New York, N. Y. Container. No. 1,292,549; Feb. 4; v. 259; p. 134.
- Reid, John, New York, N. Y. Furnace-front. No. 1,297,247; Mar. 11; v. 260; p. 357.
- Reid, John, New York, N. Y. Furnace-front and adapting therefor. No. 1,300,876; Apr. 15; v. 261; p. 555.
- Reid, John, New York, N. Y. Furnace-front. No. 1,318,331; Oct. 7; v. 267; p. 129.
- Reid, John, New York, N. Y. Closure-clamp. No. 1,320,175; Oct. 28; v. 267; p. 587.
- Reid, John, New York, N. Y. Oil-burning-furnace construction. No. 1,321,555; Nov. 11; v. 268; p. 290.
- Reid, John, New York, N. Y. Oil-burning-furnace construction. No. 1,322,343; Nov. 18; v. 268; p. 488.



- Reid, John A., assignor to The Hartt Boot and Shoe Company, Limited, Fredericton, New Brunswick, Canada. Cushion-sole footwear and making same. No. 1,290,351; Jan. 7; v. 258; p. 82.
- Reid, John A., assignor to The Hartt Boot and Shoe Company, Limited, Fredericton, New Brunswick, Canada. Cushion-sole footwear. No. 1,290,352; Jan. 7; v. 258; p. 82.
- Reid, John R., and J. D. Bell, Vancouver, British Columbia, Canada. Duck-decoy. No. 1,290,359; Jan. 7; v. 258; p. 83.
- Reid, John T., Lovelock, Nev. Pneumatic folding attachment for keeping damaged vessels afloat. No. 1,312,355; Aug. 5; v. 265; p. 93.
- Reid, John T., Lovelock, Nev. Submersible cargo carrier or transport. No. 1,312,356; Aug. 5; v. 265; p. 93.
- Reid, Malcolm M., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Pen and pencil clip. No. 1,306,774; June 17; v. 263; p. 353.
- Reid, Maurice L., San Francisco, Calif. Hot-water bag. No. 1,317,102; Sept. 23; v. 266; p. 557.
- Reid, Moses J., assignor, by mesne assignments, to M. S. Dean, trustee, Chicago, Ill. Garment-hanger. No. 1,324,209; Dec. 9; v. 269; p. 230.
- Reid, Pettis A. (See Reid, Walter V., assignor.)
- Reid, Robert. (See Reid, Andrew S. and R.)
- Reid, Walter V., assignor to P. A. Reid, Richmond, Ind. Feed mechanism for wire-fence machines. No. 1,291,141; Jan. 14; v. 258; p. 295.
- Reid, Walter V., assignor to P. A. Reid, Richmond, Ind. Feeding mechanism for wire-fence machines. No. 1,291,142; Jan. 14; v. 258; p. 295.
- Reid, Wilfrid T., assignor of one-half to The British & Colonial Aeroplane Company, Limited, Bristol, England. Aircraft-fuselage. No. 1,300,777; Apr. 15; v. 261; p. 534.
- Reid, Wilfrid T., assignor to The British & Colonial Aeroplane Company Limited, Bristol, England. Internal-combustion engine. No. 1,318,409; Oct. 14; v. 267; p. 204.
- Reid, Wilfrid T., assignor to The British Colonial Aeroplane Company Limited, Bristol, England. Engine for aircraft. No. 1,318,410; Oct. 14; v. 267; p. 204.
- Reid, Willard M., Evanston, assignor to Reid-Geisler Manufacturing Co., Chicago, Ill. Water-supplied dish-mop. No. 1,298,787; Apr. 1; v. 261; p. 40.
- Reid, Willard M., Evanston, assignor to Reid-Geisler Manufacturing Co., Chicago, Ill. Sanitary ventilated dish-mop. No. 1,298,788; Apr. 1; v. 261; p. 41.
- Reid, William, Chicago, Ill. Lightning-arrester. No. 1,311,916; Aug. 5; v. 265; p. 12.
- Reiserson, Kenhart, Portland, Oreg. Drag-saw machine. No. 1,300,650; Apr. 15; v. 261; p. 506.
- Reif, Bernard A., Cody, Wyo. Motor-propelled vehicle. No. 1,296,216; Mar. 4; v. 260; p. 92.
- Reif, Joseph, Hebron, Ind. Grate for stoves and furnaces. No. 1,325,753; Dec. 23; v. 269; p. 598.
- Reiferscheid, William, Chicago, Ill. Airship. No. 1,291,686; Jan. 14; v. 258; p. 421.
- Reiff, George J., Hathboro, Pa. Window construction. No. 1,313,239; Aug. 12; v. 265; p. 297.
- Reifsnnyder, James D., and H. G. Schwardtle, Philadelphia, assignors to Stokes & Smith Company, Summerdale, Pa. Printing-press. No. 1,317,391; Sept. 30; v. 266; p. 648.
- Reigart, Chauncey, Easton, Pa., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Apparatus for forming hollow articles. No. 1,314,366; Aug. 26; v. 265; p. 560.
- Reigersberg, Morris, assignor to Grand Rapids Show Case Co., Grand Rapids, Mich. Combination sectional furniture and knockdown shelving-section. No. 1,290,782; Jan. 7; v. 258; p. 185.
- Reiland, Ernest S., St. Paul, Minn. Tire and rim tool. No. 1,302,591; May 6; v. 262; p. 20.
- Reiley, Matthew S., Calgary, Alberta, Canada. Valve. No. 1,322,200; Nov. 18; v. 268; p. 461.
- Reiley, Matthew S., Calgary, Alberta, Canada. Valve. No. 1,322,201; Nov. 18; v. 268; p. 461.
- Reilly, James J., Scranton, Pa. Smokestack. No. 1,325,376; Dec. 16; v. 269; p. 511.
- Reilly, John F., New York, N. Y. Tire-carrier. No. 1,292,054; Jan. 21; v. 258; p. 544.
- Reilly, John F., Central Aguirre, Porto Rico. Oil-burner. No. 1,292,371; Jan. 21; v. 258; p. 620.
- Reilly, John J. (See Mahan and Reilly.)
- Reilly, Joseph P. (See Halstead, Arnold S., assignor.)
- Reilly, Peter C., Indianapolis, Ind. Still. No. 1,310,874; July 22; v. 264; p. 624.
- Reilly, Vincent A., Aitkin, Minn. Wheel-boxing. No. 1,290,353; Jan. 7; v. 258; p. 82.
- Reilly, William J., Denver, Colo., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler furnace. No. 1,305,409; June 3; v. 263; p. 34.
- Reinas, Charles, Philadelphia, Pa. Spindle-support for looms. No. 1,326,289; Dec. 30; v. 269; p. 735.
- Reinbold, Robert, Minneapolis, Minn. Adding device. No. 1,290,354; Jan. 7; v. 258; p. 82.
- Reineking, Marcus H., Sheboygan county, Wis. Cheese-hoop. No. 1,305,410; June 3; v. 263; p. 34.
- Reiners, Charles A. (See Wyde and Reiners.)
- Reiners, George E., assignor to Mafreto Machine and Tool Company, Worcester, Mass. Bottle-labeling machine. No. 1,304,373; May 20; v. 262; p. 419.
- Reinfeld, Ernest, Ludlow, Ky. Receptacle-closure. No. 1,311,091; July 22; v. 264; p. 664.
- Reinhardt, Henry B., trustee. (See Noah, Robert S., assignor.)
- Reinhardt-Rutland, Charles E., London, England. Fastener or hook and the like. No. 1,291,143; Jan. 14; v. 258; p. 295.
- Reinig, John P., Buffalo, N. Y. Garment attachment. No. 1,306,027; June 10; v. 263; p. 180.
- Reiniger, Joseph, Carrington, N. D. Harvester-reel-tensioning clamp. No. 1,307,879; June 24; v. 263; p. 588.
- Reininger, Christian C. F., New York, N. Y. Tire-replacer. No. 1,319,617; Oct. 21; v. 267; p. 460.
- Reininger, Winifred B., Battle Creek, Mich. Lamp-stove. No. 1,298,789; Apr. 1; v. 261; p. 41.
- Reinmuth, William C., Los Angeles, Calif. Suspenders. No. 1,310,249; July 15; v. 264; p. 478.
- Reiridon, Joseph F., Kingston, assignor to The Adder Machine Company, Wilkes-Barre, Pa. Elimination and special-signal mechanism. No. 1,294,704; Feb. 18; v. 259; p. 469.
- Reis, Julius M., New York, N. Y. Embroidery. No. 1,314,213; Aug. 26; v. 265; p. 530.
- Reisch, Casper, Linden, and G. Kuhn, Elizabeth, N. J. Grinding-machine. No. 1,292,372; Jan. 21; v. 258; p. 621.
- Reischmann, Joseph A., Jr., Milwaukee, Wis. Signal device. No. 1,311,997; Aug. 5; v. 265; p. 27.
- Reiser, Daniel, Cleveland, Ohio. Folding and stacking machine. No. 1,307,148; June 17; v. 263; p. 422.
- Reiser, Oliver L., Columbus, Ohio. Attachment for adding-machines. No. 1,295,795; Feb. 25; v. 259; p. 744.
- Reisfeld, Louis, Chicago, assignor of one-third to C. F. Norager, McHenry, Ill. Machine for filling and linking sausages. No. 1,292,645; Jan. 28; v. 258; p. 708.
- Reisfeld, Louis, and D. G. Reichman, assignors of one-third to S. Ladanyi, Chicago, Ill. Sausage-linking machine. No. 1,295,208; Feb. 25; v. 259; p. 608.
- Reising, Eugene G., East Hartford, Conn., assignor to The Hartford Machine Gun Company, Hartford, Conn. Extractor for firearms. No. 1,309,337; July 8; v. 264; p. 273.
- Reising, Eugene G., East Hartford, Conn., assignor to The Hartford Machine Gun Company, Hartford, Conn. Ejector for firearms. No. 1,309,338; July 8; v. 264; p. 274.
- Reising, Eugene G., East Hartford, assignor to The Hartford Machine Gun Company, Hartford, Conn. Firing-pin for firearms. No. 1,313,912; Aug. 26; v. 265; p. 472.
- Reising, Eugene G., Hartford, Conn. Firearm. No. 1,322,053; Nov. 18; v. 268; p. 433.
- Reiss, George E., assignor of one-half to C. Snyder, Cincinnati, Ohio. Counter for telephone coin-receivers. No. 1,306,314; June 10; v. 263; p. 236.
- Reisz, Eugen, Berlin, Germany. Relay for undulatory currents. No. 1,322,503; Nov. 18; v. 268; p. 519.
- Reisz, Eugen, Treptow, near Berlin, Germany. Duplex connection for telephone-relays. No. 1,322,504; Nov. 18; v. 268; p. 519.
- Reiter, Otis F., Relay, Md. Stone-gatherer. No. 1,300,018; Apr. 8; v. 261; p. 344.
- Reiter, Otis F., Baltimore, Md. Stone-rake. No. 1,325,580; Dec. 23; v. 269; p. 567.
- Reith, Otto C., et al. (See Lieske, Ernst, assignor.)
- Reitzel, Albert E., Washington, D. C. Threshing apparatus. No. 1,306,028; June 10; v. 263; p. 180.
- Reitzel, George A., St. Louis, Mo. Snap-fastener. No. 1,315,415; Sept. 9; v. 266; p. 182.
- Rekers, Gerrit, Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electric motor. No. 1,291,144; Jan. 14; v. 258; p. 295.
- Rekers, Gerrit, Rochester, assignor to General Railway Signal Company, Gates, N. Y. Semaphore-signal mechanism. No. 1,297,969; Mar. 18; v. 260; p. 540.
- Rekers, Gerrit, Rochester, assignor to General Railway Signal Company, Gates, N. Y. Semaphore-signal mechanism. No. 1,297,970; Mar. 18; v. 260; p. 541.
- Relay Automatic Telephone Company, The. (See Aitken, William, assignor.)
- Relay Automatic Telephone Company, The. (See Grahn, Oscar, assignor.)
- Reliance Gauge Column Company, The. (See Miller and Frackelton, assignors.)
- Reliance-Grant Elevator Equipment Corporation. (See Weiss, Louis T., assignor.)
- Reliance Wheel Company, The. (See Culp, Jay S., assignor.)
- Relyea, Fred H., Newark, N. J. Antiseptic compound. No. 1,297,735; Mar. 18; v. 260; p. 490.
- Remar, Albert, Maynard, Ohio. Railway-tie and chair. No. 1,312,049; Aug. 5; v. 265; p. 37.
- Romatore, William B. (See Williams, Leo L., assignor.)
- Romer, Adam, and J. S. Tripp, Chicago, Ill. Train-hose coupling. No. 1,306,927; June 17; v. 263; p. 384.
- Remhlit, Arthur G., Philadelphia, Pa. Phonograph attachment. No. 1,304,513; May 20; v. 262; p. 447.



## Alphabetical list of patentees—Continued.

- Remick, Lloyd T., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for finishing the edges of flexible material. No. 1,310,579; July 22; v. 264; p. 570.
- Reminger, William T., Tiffin, Ohio. Rotary tooth-brush. No. 1,308,866; July 8; v. 264; p. 185.
- Remington, Horace W., assignor to B. J. Johnson Soap Company, Milwaukee, Wis. Soap-container. No. 1,322,729; Nov. 25; v. 268; p. 612.
- Remington Typewriter Company. (See Barr, John H., assignor.)
- Remington Typewriter Company. (See Bridgwater, Herbert E., assignor.)
- Remington Typewriter Company. (See Briggs, Arthur J., assignor.)
- Remington Typewriter Company. (See Cone, Joseph L., assignor.)
- Remington Typewriter Company. (See Dodge, Elbert S., assignor.)
- Remington Typewriter Company. (See Ellis, Albert H., assignor.)
- Remington Typewriter Company. (See Fort, Tandy I., assignor.)
- Remington Typewriter Company. (See Jones, Robert M., assignor.)
- Remington Typewriter Company. (See Labofish, Charles S., assignor.)
- Remington Typewriter Company. (See Richards, George H., assignor.)
- Remington Typewriter Company. (See Sheldon, William G., assignor.)
- Remington Typewriter Company. (See Seib, George A., assignor.)
- Remington Typewriter Company. (See Yaw, Clio B., assignor.)
- Remm, Leo J. (See Johnson, James A., assignor.)
- Remmele, Louis J., Newark, N. J. Rotary broom or brush. No. 1,309,695; July 15; v. 264; p. 378.
- Kemmlein, Frank J., Philadelphia, Pa. Stoker-grate. No. 1,302,221; Apr. 29; v. 261; p. 886.
- Remy, Jeanne, New Orleans, La. Skirt-measure. No. 1,292,056; Jan. 21; v. 258; p. 545.
- Renaud, Edwin C., et al. (See Hinton, George W., assignor.)
- Renault, Edgard, assignor of one-half to L. Lescault, Pawtucket, R. I. Lace-making machine. No. 1,316,647; Sept. 23; v. 266; p. 473.
- Renault, Louis. (See Fuchs, Ernest, assignor.)
- Rendle, Arthur E., assignor to Keystone Type Foundry, Philadelphia, Pa. Metal window-sash. No. 1,303,113; May 6; v. 262; p. 121.
- Reney, Jules F., Brandon, Manitoba, Canada, assignor to Baird Motion Picture Machine Co. Attachment for moving-picture machines. No. 1,299,612; Apr. 8; v. 261; p. 255.
- Renfrew Machinery Company Limited. (See Norris, Nelson H., assignor.)
- Renick, H. Phelps, et al. (See Day, William B., assignor.)
- Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Semi-automatic compressed-air transport system. No. 1,301,167; Apr. 22; v. 261; p. 653.
- Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Automatic apparatus for distributing pulverized fuel. No. 1,301,168; Apr. 22; v. 261; p. 654.
- Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Apparatus for handling pulverized fuel. No. 1,308,367; July 1; v. 264; p. 65.
- Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Combined air and pulverized-fuel control. No. 1,308,368; July 1; v. 264; p. 66.
- Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Apparatus for storing and handling pulverized fuel. No. 1,308,369; July 1; v. 264; p. 66.
- Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Yielding supporting and vertically-guiding apparatus. No. 1,308,370; July 1; v. 264; p. 66.
- Renne, George N., Kansas City, Mo. Transmission mechanism for windmills. No. 1,305,933; June 3; v. 263; p. 133.
- Renner, Claude A. and E. A., Perkasio, Pa. Spark-arrester. No. 1,303,393; May 13; v. 262; p. 200.
- Renner, Edward J., Swissvale, Pa. Plaything for children. No. 1,303,392; May 13; v. 262; p. 200.
- Renner, Edwin A. (See Renner, Claude A. and E. A.)
- Renner, Henry M., Junction City, Kans. Shoe-closure. No. 1,314,284; Aug. 26; v. 265; p. 544.
- Renner, Irvin R. (See Raymond and Renner.)
- Rennerfelt, Ivar, Djursholm, Sweden. Electric-arc furnace. No. 1,294,830; Feb. 18; v. 259; p. 499.
- Rennerfelt, Ivar, Djursholm, Sweden. Electric furnace. No. 1,305,167; May 27; v. 262; p. 607.
- Rennerfelt, Ivar, Djursholm, Sweden. Electric furnace. No. 1,313,834; Aug. 19; v. 265; p. 424.
- Rennie, William J., assignor to Toronto Type Foundry Company, Limited, Toronto, Ontario, Canada. Universal tool-grinding machine. No. 1,326,423; Dec. 30; v. 269; p. 760.
- Reno, Jesse W., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Freight-conveyer. No. 1,291,145; Jan. 14; v. 258; p. 296.
- Reno, Jesse W., New York, N. Y. Toothed-gear power transmission. No. 1,314,701; Sept. 2; v. 266; p. 43.
- Renold, Hans, and A. E. Carter, assignors to Hans Renold Limited, Manchester, England. Driving-chain. No. 1,306,078; June 10; v. 263; p. 190.
- Renold, Hans, and A. E. Carter, assignors to Hans Renold Limited, Manchester, England. Driving-chain. No. 1,306,561; June 10; v. 263; p. 281.
- Renwick, Frank F., Brentwood, and O. Bloch, London, assignors to Ilford Limited, Ilford, England. Color-sensitized photographic material. No. 1,320,176; Oct. 28; v. 267; p. 587.
- Reordway Manufacturing and Sales Co. (See Vastine, Ray P., assignor.)
- Repping, Joseph, Effingham, Ill. Spring. No. 1,323,491; Dec. 2; v. 269; p. 50.
- Replansky, Solomon, New York, N. Y. Waistband. No. 1,300,877; Apr. 15; v. 261; p. 555.
- Replogle, Daniel B., Berkeley, Cal. Vacuum-cleaner. No. 1,292,963; Jan. 28; v. 258; p. 782.
- Replogle, Daniel B., Berkeley, Cal. Vacuum-cleaner hose-pipe. No. 1,293,926; Feb. 11; v. 259; p. 252.
- Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cementing device. No. 1,316,805; Sept. 23; v. 266; p. 502.
- Repman, Ray G. (See Le Roy and Repman.)
- Repp, Clinton B., assignor, by mesne assignments, to G. A. Alonso, New York, N. Y. Phonograph. No. 1,302,433; Apr. 29; v. 261; p. 927.
- Repp, Clinton B., Plainfield, N. J. Phonograph. No. 1,323,317; Dec. 2; v. 269; p. 18.
- Repp, Clinton B., Plainfield, N. J., assignor, by mesne assignments, to G. A. Alonso, New York, N. Y. Phonograph. No. 1,323,316; Dec. 2; v. 269; p. 17.
- Reppetto, Harvey B., assignor to Wheeling Stove & Range Company, Wheeling, W. Va. Oil heating-stove. No. 1,294,831; Feb. 18; v. 259; p. 499.
- Republic Flow Meters Company. (See Spitzglass, Jacob M., assignor.)
- Republic Metalware Company, The. (See Hallock, Eugene D., assignor.)
- Republic Rubber Company, The. (See Kuentzel, Curt, assignor.)
- Research Corporation. (See Bradley, Linn, assignor.)
- Research Corporation. (See Hedberg, Carl W. J., assignor.)
- Resch, Louis D., Chicago, Ill. News-stand. No. 1,295,209; Feb. 25; v. 259; p. 608.
- Resch, Wilhelm, Binningen, near Basel, assignor to Alexander Clavel, Basel, Switzerland. Dyeing, bleaching, or like treatment of cops. No. 1,317,220; Sept. 30; v. 266; p. 615.
- Reschke, William F., Wichita, Kans. Loose-leaf binder. No. 1,322,344; Nov. 18; v. 268; p. 488.
- Rese, William F. (See McCormick and Rese.)
- Research Corporation. (See Bradley, Linn, assignor.)
- Research Corporation. (See Caron, Martinus H., assignor.)
- Research Corporation. (See Hedberg, Carl W. J., assignor.)
- Research Corporation. (See Murrell, Clarence E., assignor.)
- Resek, Marc. (See Chadwick and Resek.)
- Resek, Simon, Cleveland, Ohio. Stop and waste cock. No. 1,294,166; Feb. 11; v. 259; p. 309.
- Respass, Roland B., New York, N. Y. Leather substitute and making the same. No. 1,319,795; Oct. 28; v. 267; p. 516.
- Retrum, Alvin O. (See Peterson and Retrum.)
- Retterberg, William P., and W. L. Lange, Brooklyn, N. Y. Banjo and similar stringed instruments. No. 1,312,209; Aug. 5; v. 265; p. 67.
- Rettig, Clarence N., assignor of one-third to R. Clark and one-third to B. Huffman, Lawrenceville, Ill. Automatic gas cut-off. No. 1,290,660; Jan. 7; v. 258; p. 157.
- Rettinger, William N., Bourbon, Ind. Wire cable. No. 1,312,872; Aug. 12; v. 265; p. 224.
- Reussner, William. (See Galloway and Reussner.)
- Reustle, Harry G., and W. W. Cannon, Camden, N. J.; said Cannon assignor to said Reustle. Machine for use in assorting buttons. No. 1,303,594; May 13; v. 262; p. 236.
- Reusz, Maximilian J., Continental, assignor of one-fifth to C. F. Schneider, one-fifth to J. C. Josse, one-fifth to F. R. Loveridge, and one-fifth to J. B. Turpin, St. Louis, Mo. Antifreezing solution. No. 1,319,178; Oct. 21; v. 267; p. 377.
- Reuter, Balthasar E., assignor to Reuter Process Company, Chicago, Ill. Saponifying glycerids. No. 1,298,563; Mar. 25; v. 260; p. 692.
- Reuter, Baptist. (See Flacher and Reuter.)
- Reuter, Frederick, assignor to James Pott & Co., New York, N. Y. Book-joint. No. 1,292,880; Jan. 28; v. 258; p. 764.
- Reuter, Henry C., assignor to S. Block, Chicago, Ill. Lifting-jack. No. 1,291,146; Jan. 14; v. 258; p. 296.
- Reuter Process Company. (See Reuter, Balthasar E., assignor.)
- Reuthe, Gustav, Sayville, N. Y. Controlling wireless-telegraph transmitters. No. 1,308,530; July 1; v. 264; p. 95.



- Reuthe, Gustav, Sayville, N. Y. Antenna arrangement for wireless signaling or the like. No. 1,314,095; Aug. 26; v. 265; p. 508.
- Reutimann, Jacob, Lowell, Mass. Pencil-sharpener. No. 1,299,780; Apr. 8; v. 261; p. 294.
- Reverdin, Frederick, Geneva, Switzerland, assignor to Newport Chemical Works, Inc., Milwaukee, Wis. Benzoylation of organic amido compounds. No. 1,296,602; Mar. 4; v. 260; p. 176.
- Revere Rubber Company. (See Thacher, Sheldon P., assignor.)
- Revere Rubber Company. (See Waugh, Samuel A., assignor.)
- Revere Rubber Company. (See Kent, William J., assignor.)
- Revier, Robert H., Dallas, Tex. Window-shade roller. No. 1,300,778; Apr. 15; v. 261; p. 534.
- Revis, James, assignor of one-third to T. Jackson, Cedar Rapids, Iowa. Non-loosening railway spike. No. 1,319,618; Oct. 21; v. 267; p. 460.
- Revis, James, assignor of one-third to T. Jackson, Cedar Rapids, Iowa. Boltless rail-joint device. No. 1,321,943; Nov. 18; v. 268; p. 413.
- Rex, Alfred C., administrator. (See Robertson, Archibald J.)
- Rexford, Benjamin A., Alton, Ill. Automobile-puller. No. 1,301,743; Apr. 22; v. 261; p. 765.
- Rey, Henri D., Avarua, Island of Rarotonga, Cook Islands. Jack. No. 1,299,781; Apr. 8; v. 261; p. 294.
- Rey, Henri D., Avarua, Island of Rarotonga, Cook Islands. Vehicle-wheel. No. 1,313,913; Aug. 26; v. 265; p. 472.
- Rey, Jean A., Paris, France. Mechanism for controlling movement. No. 1,299,509; Apr. 8; v. 261; p. 231.
- Reyburn, John R., Fairfield, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Chain-connecting device. No. 1,296,218; Mar. 4; v. 260; p. 92.
- Reyburn, John R., Fairfield, and C. D. Sagendorf, assignors to American Chain Company, Incorporated, Bridgeport, Conn. Snap-hook. No. 1,296,217; Mar. 4; v. 260; p. 92.
- Reyburn, John R., Fairfield, and C. D. Sagendorf, assignors to American Chain Company, Incorporated, Bridgeport, Conn. Chain-connector device. No. 1,296,219; Mar. 4; v. 260; p. 93.
- Reyer, Gus W., Rose Hill, Kans. Pad. No. 1,320,918; Nov. 4; v. 268; p. 106.
- Reynard, John, Omaha, Nebr. Inhaler or respirator. No. 1,311,461; July 29; v. 264; p. 766.
- Reynolds, Arthur W., assignor of one-half to E. Benedict, Newtown, Conn. Tractor-plow. No. 1,301,744; Apr. 22; v. 261; p. 765.
- Reynolds, Charles W., Adrian Mich. Sidehill-plow. No. 1,292,514; Jan. 28; v. 258; p. 675.
- Reynolds, Clifford W., Fort Atkinson, Wis. High chair. No. 1,292,646; Jan. 28; v. 258; p. 708.
- Reynolds Corporation. (See Reynolds, Richard S., assignor.)
- Reynolds, David S., Boston, Mass. Skip-hoist. No. 1,323,911; Dec. 2; v. 269; p. 130.
- Reynolds, Emma L. (See Frey, Herbert H., assignor.)
- Reynolds Engineering Company. (See Brown, Harold, assignor.)
- Reynolds, Frank C., Columbus, Ohio. Photographic camera. No. 1,295,062; Feb. 18; v. 259; p. 551.
- Reynolds, Frank C., assignor to J. B. Moore, Columbus, Ohio. Distance-finder for cameras. No. 1,299,030; Apr. 1; v. 261; p. 96.
- Reynolds, Frank W., New Washington, Ohio. Dish-washer. No. 1,306,123; June 10; v. 263; p. 198.
- Reynolds, George A., et al. (See Rover, Adolph B., assignor.)
- Reynolds, George A., Indianapolis, Ind. Valve-operating mechanism. No. 1,309,339; July 8; v. 264; p. 274.
- Reynolds, George L., East Boston, Mass. Chord-playing attachment for keyboard instruments. No. 1,300,878; Apr. 15; v. 261; p. 555.
- Reynolds, H. Wallace. (See Kadel, Pilcher, Persinger, and Reynolds.)
- Reynolds, Harry H., Chicago, Ill. Hydrometer or storage-battery tester. No. 1,291,147; Jan. 14; v. 258; p. 296.
- Reynolds, Harry R., assignor to Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,325,910; Dec. 23; v. 269; p. 628.
- Reynolds, Harry R., assignor to The Fafnir Bearing Company, New Britain, Conn. Shaft-hanger bearing. No. 1,326,892; Dec. 30; v. 269; p. 849.
- Reynolds, Henry L. (See Hogan, William T., assignor.)
- Reynolds, Hugh W., Kendallville, Ind. Artificial tooth. No. 1,296,429; Mar. 4; v. 260; p. 137.
- Reynolds, James W., Chicago, Ill. Artificial fishing-bait. No. 1,320,570; Nov. 4; v. 268; p. 40.
- Reynolds, John J., and A. H. Jenkins, Ruleville, Miss. Dirigible balloon. No. 1,291,687; Jan. 14; v. 258; p. 422.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Line-switch. No. 1,306,124; June 10; v. 263; p. 198.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,308,867; July 8; v. 264; p. 185.
- Reynolds, John N., Greenwich, Conn., and John F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic switch. No. 1,309,304; July 8; v. 264; p. 267.
- Reynolds, John N., Greenwich, Conn., and J. F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone switching apparatus. No. 1,314,214; Aug. 26; v. 265; p. 530.
- Reynolds, John N., Greenwich, Conn., and J. F. Hearn, Passaic, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-switch. No. 1,319,725; Oct. 28; v. 267; p. 503.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone switching apparatus. No. 1,323,318; Dec. 2; v. 269; p. 18.
- Reynolds, John R., assignor to The Smyth Manufacturing Company, Hartford, Conn. Former for shaping the backs of book-covers. No. 1,323,319; Dec. 2; v. 269; p. 18.
- Reynolds, Joy S., Seattle, Wash. Cutting-torch tip. No. 1,313,605; Aug. 19; v. 265; p. 381.
- Reynolds, Lynus C., assignor to himself and J. W. Fisher, Jr., Washington, D. C. Machine-operating mechanism. No. 1,298,400; Mar. 25; v. 260; p. 656.
- Reynolds, Ralph V., Chicago, Ill. Clothes-hanger. No. 1,301,500; Apr. 22; v. 261; p. 718.
- Reynolds, Rector H., Woodriver, assignor of one-half to F. Ginger, Alton, Ill. Anchor. No. 1,319,419; Oct. 21; v. 267; p. 423.
- Reynolds, Richard J., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Tobacco-cartridge holder. No. 1,292,647; Jan. 28; v. 258; p. 708.
- Reynolds, Richard J., assignor to R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Tobacco-pipe. No. 1,292,648; Jan. 28; v. 258; p. 708.
- Reynolds, Richard S., Louisville, Ky. Fiber container. No. 1,299,031; Apr. 1; v. 261; p. 96.
- Reynolds, Richard S., assignor to Reynolds Corporation, Incorporated, Bristol, Tenn. Receptacle. No. 1,307,926; June 24; v. 263; p. 596.
- Reynolds, Robert E., Houston Heights, Tex. Road-surfacing machine. No. 1,306,353; June 10; v. 263; p. 244.
- Reynolds, Robert E., Houston, assignee of one-half to T. H. Bass, Harris county, Tex. Mold for plastic material. No. 1,310,632; July 22; v. 264; p. 580.
- Reynolds, Robert R. (See Cooper, McKee, assignor.)
- Reynolds, Samuel W., et al. (See Rover, Adolph B., assignor.)
- Reynolds, Walter M., Hattiesburg, Miss. Cultivator. No. 1,316,325; Sept. 16; v. 266; p. 363.
- Reynolds, Wau D., Greenville, S. C. Combination-lock. No. 1,320,919; Nov. 4; v. 268; p. 106.
- Reynolds, William H., De Soto, Mo. Oil-can. No. 1,300,019; Apr. 8; v. 261; p. 345.
- Reynolds, William H., De Soto, Mo. Collar-fastener. No. 1,301,745; Apr. 22; v. 261; p. 765.
- Reynolds, William M., Purcell, Colo. Beet-harvester. No. 1,302,973; May 6; v. 262; p. 94.
- Reznicek, Anton, Jersey City, N. J. Construction of belts or the like. No. 1,320,413; Nov. 4; v. 268; p. 11.
- Rhea, James W., Kingsport, Tenn. Refrigerator. No. 1,297,910; Mar. 18; v. 260; p. 528.
- Rhein, Elizabeth E. V. W. (See Rhein, Meyer L., assignor.)
- Rhein, Meyer L., assignor to L. E. V. W. Rhein, New York, N. Y. Dentifrice. No. 1,297,494; Mar. 18; v. 260; p. 438.
- Rheuban, George J., assignor of one-half to I. J. Tatro, Youngstown, Ohio. Vehicle-tire. No. 1,316,186; Sept. 16; v. 266; p. 337.
- Rhine, John J., Pittsburgh, Pa. Shock-absorber. No. 1,303,725; May 13; v. 262; p. 260.
- Rhineland, Harry W., Freedom, Pa. Safety-apron for locomotives. No. 1,306,438; June 10; v. 263; p. 259.
- Rhineland, James J., Pittsburgh, Pa. Pipe-gripping device. No. 1,309,546; July 8; v. 264; p. 313.
- Rhines, Frank W., Lamont, Iowa. Adjustable alligator-wrench. No. 1,303,963; May 20; v. 262; p. 343.
- Rhines, Frank W., Lamont, Iowa. Adjustable hand-rake. No. 1,309,340; July 8; v. 264; p. 274.
- Rhoades, Alonzo E., assignor, by mesne assignments, to Draper Corporation, Hopdale, Mass. Filling-replenishing loom. No. 1,290,661; Jan. 7; v. 258; p. 157.
- Rhoades, Alonzo E., assignor, by mesne assignments, to Draper Corporation, Hopdale, Mass. Feeler-motion for looms. No. 1,292,057; Jan. 21; v. 258; p. 545.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopdale, Mass. Filling-and-retaining means for weft-replenishing looms. No. 1,292,058; Jan. 21; v. 258; p. 545.
- Rhoades, Alonzo E., assignor, by mesne assignments, to Draper Corporation, Hopdale, Mass. Feeler-motion for looms. No. 1,292,373; Jan. 21; v. 258; p. 621.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopdale, Mass. Feeler-motion for looms. No. 1,294,534; Feb. 18; v. 259; p. 430.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopdale, Mass. Loom. No. 1,295,371; Feb. 25; v. 259; p. 645.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopdale, Mass. Spooler. No. 1,297,495; Mar. 18; v. 260; p. 438.



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- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Bobbin-box stand. No. 1,299,613; Apr. 8; v. 261; p. 255.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Yarn support and guide for winding-machines. No. 1,307,700; June 24; v. 263; p. 555.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Yarn tension for winding-machines. No. 1,307,701; June 24; v. 263; p. 555.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,308,193; July 1; v. 264; p. 34.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Loom-seat. No. 1,310,671; July 22; v. 264; p. 587.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Beam-locking device for looms. No. 1,312,269; Aug. 5; v. 265; p. 77.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Harness-motion for looms. No. 1,312,751; Aug. 12; v. 265; p. 200.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Battery-feed for looms. No. 1,317,823; Oct. 7; v. 267; p. 31.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Terry-loom. No. 1,322,730; Nov. 25; v. 268; p. 613.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Pattern mechanism for looms. No. 1,322,731; Nov. 25; v. 268; p. 613.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Rotary magazine for looms. No. 1,325,207; Dec. 16; v. 269; p. 480.
- Rhoades, Alonzo E., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Pick-counter for looms. No. 1,325,911; Dec. 23; v. 269; p. 628.
- Rhoades, Charles S., Jr., Indianapolis, Ind. Answer-back for signaling systems. No. 1,309,369; July 8; v. 264; p. 279.
- Rhoades, Charles S., Jr., Indianapolis, Ind. Telephone system. No. 1,324,746; Dec. 9; v. 269; p. 333.
- Rhoades, Charles S., Jr., Indianapolis, Ind., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,307,753; June 24; v. 263; p. 565.
- Rhoades, Leonard H., assignor of one-half to H. Ames, Chicago, Ill. Carbureter. No. 1,305,744; June 3; v. 263; p. 97.
- Rhoades, May E., New York, N. Y. Woman's working-garment. No. 1,305,307; June 3; v. 263; p. 15.
- Rhoades, William M., Detroit, Mich. Blotter-holder. No. 1,299,614; Apr. 8; v. 261; p. 255.
- Rhodehamel, Henry C. (See Stafford, Rhodehamel, and Schoenlaub.)
- Rhodehamel, Harley W., assignor to The Eli Lilly and Company, Indianapolis, Ind. Compounds of halogen acids with 2-phenyl quinolin 4-carboxylic acid. No. 1,306,439; June 10; v. 263; p. 259.
- Rhodes, Charles H., Owosso, Mich. Loose pulley. No. 1,322,617; Nov. 25; v. 268; p. 592.
- Rhodes, George W., Scappoose, Oreg. Tooth-brush and tooth-paste holder. No. 1,310,089; July 15; v. 264; p. 449.
- Rhodes, Jay B., Kalamazoo, Mich. Lure or decoy. No. 1,321,850; Nov. 18; v. 268; p. 396.
- Rhodes, Jay B., Kalamazoo, Mich., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 1,294,832; Feb. 18; v. 259; p. 499.
- Rhodes, Jay B., Kalamazoo, Mich., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 1,318,692; Oct. 14; v. 267; p. 258.
- Rhodes, Joseph C., G. E. Guffey, and J. G. Sheehan, Danville, Ky. Steering-wheel brake. No. 1,305,934; June 3; v. 263; p. 134.
- Rhodes, Thurman A., Altamont, Ill. Crate-opener. No. 1,312,873; Aug. 12; v. 265; p. 224.
- Rhodes, William W. (See Feenie and Rhodes.)
- Rhodes, William W., Woodville, Ohio. Hydration. No. 1,318,921; Oct. 14; v. 267; p. 302.
- Rhodes, William W., Woodville, Ohio. Promoting plasticity of mortar materials. No. 1,318,922; Oct. 14; v. 267; p. 302.
- Rhodus, Charlotte C. (See Rhodus, Thomas, assignor.)
- Rhodus, Thomas, assignor to C. C. Rhodus, Chicago, Ill. Vehicle-wheel. No. 1,293,927; Feb. 11; v. 259; p. 252.
- Rhotanium Company, The. (See Fahrenwald, Frank A., assignor.)
- Rial, Lee, and W. Hebern; said Hebern assignor to E. J. McLaughlin and J. F. Sullivan, San Francisco, Calif. Steering-wheel lock. No. 1,300,020; Apr. 8; v. 261; p. 345.
- Ribble, Elliott R., Roanoke, Va. Cash-register light. No. 1,294,167; Feb. 11; v. 259; p. 309.
- Ribbon Life Company, The. (See Huddleston, Le Roy B., assignor.)
- Ric-Wil Company, The. (See Gottwald, Christian, assignor.)
- Ric-Wil Underground Pipe Covering Company, The. (See Richards, Glendon A., assignor.)
- Ricard Elol, Melle, France. Manufacture of furfural. No. 1,322,054; Nov. 18; v. 268; p. 434.
- Ricardo, Harry R., London, England. Piston for internal-combustion engines. No. 1,294,833; Feb. 18; v. 259; p. 500.
- Ricardo, Harry R., London, England. Internal-combustion engine. No. 1,296,555; Mar. 4; v. 260; p. 165.
- Ricardo, Harry R., London, England. Internal-combustion engine. No. 1,296,556; Mar. 4; v. 260; p. 165.
- Ricardo, Harry R., London, England. Internal-combustion engine. No. 1,297,248; Mar. 11; v. 260; p. 357.
- Ricardo, Harry R., London, England. Internal-combustion engine. No. 1,297,401; Mar. 18; v. 260; p. 419.
- Ricardo, Harry R., London, England. Driving mechanism for propellers. No. 1,298,401; Mar. 25; v. 260; p. 657.
- Ricardo, Harry R., London, England. Apparatus for regulating the speed and power of internal-combustion engines. No. 1,301,972; Apr. 29; v. 261; p. 840.
- Ricardo, Harry R., London, England. Connecting-rod for internal-combustion engines. No. 1,303,498; May 13; v. 262; p. 219.
- Ricardo, Harry R., London, England. Aircraft driving mechanism. No. 1,306,125; June 10; v. 263; p. 199.
- Ricardo, Harry R., London, England. Balancing of reciprocating engines. No. 1,310,090; July 15; v. 264; p. 449.
- Ricardo, Harry R., London, England. Internal-combustion engine. No. 1,315,037; Sept. 2; v. 266; p. 103.
- Ricardo, Harry R., London, England. Regulating means for internal-combustion engines. No. 1,316,977; Sept. 23; v. 266; p. 533.
- Rice, Anson S., Brooklyn, N. Y. Water-heating apparatus. No. 1,323,551; Dec. 2; v. 269; p. 62.
- Rice, Charles D., Hartford, Conn. Drop-hammer. No. 1,324,925; Dec. 16; v. 269; p. 428.
- Rice, David B., Worcester, Mass. Fruit-knife. No. 1,326,373; Dec. 30; v. 269; p. 750.
- Rice, Ernest B., Grand Saline, Tex. Slot angle-bar. No. 1,303,726; May 13; v. 262; p. 261.
- Rice, Edward E., Elmira, N. Y. Stone-creasing tool. No. 1,296,317; Mar. 4; v. 260; p. 114.
- Rice, George L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Combination paper and fiber twine. No. 1,320,920; Nov. 4; v. 268; p. 106.
- Rice, George L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Machine making combination paper-fiber twine. No. 1,320,921; Nov. 4; v. 268; p. 106.
- Rice, George L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Machine for making combination fiber-paper twine. No. 1,320,922; Nov. 4; v. 268; p. 106.
- Rice, Harold A., New York, N. Y., assignor to Redtop Electric Company, Inc. Replaceable heating unit for electrical apparatus. No. 1,319,533; Oct. 21; v. 267; p. 444.
- Rice, Henry W., Prahran, and L. A. Sturrock, Royal Park, Melbourne, Australia. Wire-bound box and the like. No. 1,317,317; Sept. 30; v. 266; p. 634.
- Rice, John N., et al. (See Rice, Robert C., assignor.)
- Rice, John N., Ponca City, Okla. Power attachment for automobiles. No. 1,307,269; June 17; v. 263; p. 443.
- Rice, Joseph S., et al. (See Rice, Robert C., assignor.)
- Rice, Matthew C., Kansas City, Mo. Mowing attachment for automobiles. No. 1,295,925; Mar. 4; v. 260; p. 23.
- Rice, Richard H., Swampscott, Mass., assignor to General Electric Company. Valve-gear. No. 1,297,249; Mar. 11; v. 260; p. 357.
- Rice, Richard H., Swampscott, Mass., assignor to General Electric Company. Bearing and oiling means therefor. No. 1,313,736; Aug. 19; v. 265; p. 406.
- Rice, Richard H., Swampscott, Mass., assignor to General Electric Company. Packing. No. 1,326,690; Dec. 30; v. 269; p. 811.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 1,293,564; Mar. 25; v. 260; p. 692.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Maneuvering valve mechanism for ship-turbines. No. 1,317,036; Sept. 23; v. 266; p. 544.
- Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 1,325,208; Dec. 16; v. 269; p. 481.
- Rice, Robert C., assignor to J. S. and J. N. Rice, New Castle, Pa. Mail-bag lock. No. 1,301,876; Apr. 29; v. 261; p. 821.
- Rice, Thomas B., Santa Maria, Cal. Cigarette-case. No. 1,293,197; Feb. 4; v. 259; p. 51.
- Rice, Walter J. (See Fox and Rice.)
- Rice, William D., Conneaut, Ohio. Making shrapnel-shells. No. 1,303,727; May 13; v. 262; p. 261.
- Rice, William E., Cambridge, Mass. Tape-moistener. No. 1,319,114; Oct. 21; v. 267; p. 363.
- Rieh, Charles C., Cranston, R. I. Emergency draft-bar. No. 1,292,881; Jan. 28; v. 258; p. 764.
- Rieh, Donald U., Washington, D. C. Holder for rosin. No. 1,323,612; Dec. 2; v. 269; p. 73.



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- Rich, Francis A., Sydney, New South Wales, Australia, assignor of one-half to D. W. Kirk, Whakatane, New Zealand. Apparatus for drying copra and treating other substances. No. 1,298,790; Apr. 1; v. 261; p. 41.
- Rich, Frank E., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Gripper-pad adjustment. No. 1,296,008; Mar. 4; v. 260; p. 43.
- Rich, George R., assignor to Rich Steel Products Company, Battle Creek, Mich. Rivet set. No. 1,314,215; Aug. 26; v. 265; p. 530.
- Rich, Harold A., Detroit, Mich. Time-card record. No. 1,294,535; Feb. 18; v. 259; p. 430.
- Rich, Marion J., Jr., assignor to Empire Rubber & Tire Company, Trenton, N. J. Tensioning device. No. 1,293,550; Feb. 4; v. 259; p. 134.
- Rich, Peter H. (See Bubb, Clarence A., assignor.)
- Rich-Sampler Company, The. (See Sampler, Samuel S., assignor.)
- Rich Steel Products Company. (See Rich, George R., assignor.)
- Rich, Willard G., Rochester, N. Y. Shaving-stick holder. No. 1,299,032; Apr. 1; v. 261; p. 96.
- Richard Auto Mfg. Company, The. (See Richard, Francois, assignor.)
- Richard, Ellis L., Muskegon, Mich. Belt-cutter. No. 1,320,923; Nov. 4; v. 268; p. 106.
- Richard, Eugene C., and W. G. Heginbottom, Flint, assignors to General Motors Corporation, Detroit, Mich. Manifold for internal-combustion engines. No. 1,323,378; Dec. 2; v. 269; p. 29.
- Richard Fleming Company, The. (See Fleming, Richard, assignor.)
- Richard, Francois, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Automobile-body. No. 1,319,901; Oct. 28; v. 267; p. 537.
- Richard, Francois, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Wind-shield. No. 1,319,902; Oct. 28; v. 267; p. 557.
- Richard, Francois, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Carbureter. No. 1,323,786; Dec. 2; v. 269; p. 106.
- Richard, Francois, assignor to The Richard Auto Mfg. Company, Cleveland, Ohio. Hinge construction. No. 1,325,109; Dec. 16; v. 269; p. 462.
- Richard Garrett & Sons Limited. (See Garrett and Pratt, assignors.)
- Richard, Jules. (See Bayeux and Richard.)
- Richard, Jules. (See Lacroix and Richard.)
- Richards, Adelbert H., Salt Lake City, Utah, assignor to American Smelting & Refining Co. Sintering ores. No. 1,292,059; Jan. 21; v. 258; p. 546.
- Richards, Arthur F. W. (See Beaver, Richards, and Claremont.)
- Richards, Charles A., Paulina, Iowa. Automobile camp-trailer. No. 1,300,021; Apr. 8; v. 261; p. 345.
- Richards, Daniel, Winchmore Hill, assignor of one-half to Dyson & Company, (Enfield) Limited, Ponders End, England. Tool-holder. No. 1,295,600; Feb. 25; v. 259; p. 699.
- Richards, Fordyce T., Portland, Oreg. Drier. No. 1,307,270; June 17; v. 263; p. 444.
- Richards, Francis H., Hartford, Conn. Collapsible tap. No. 1,290,356; Jan. 7; v. 258; p. 82.
- Richards, Francis H., Hartford, Conn., assignor to S. C. Ross, Buffalo, N. Y. Expansion-joint. No. 1,292,060; Jan. 21; v. 258; p. 546.
- Richards, George, Westminster, London, England. Means applicable for use in milling screw-threads. No. 1,304,906; May 27; v. 262; p. 559.
- Richards, George, Westminster, London, England. Cutter or hob for milling screw-threads. No. 1,306,855; June 17; v. 263; p. 368.
- Richards, George, London, England. Cutter or hob for milling screw-threads. No. 1,306,856; June 17; v. 263; p. 368.
- Richards, George and W. W. Beaumont, London, England. Means applicable for use in milling screw-threads. No. 1,295,063; Feb. 18; v. 259; p. 552.
- Richards, George H., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Means for covering type-writers. No. 1,315,794; Sept. 9; v. 266; p. 249.
- Richards, Glendon A., Grand Rapids, Mich., assignor to The Ric-Wil Underground Pipe Covering Company, Cleveland, Ohio. Drainage system. No. 1,298,258; Mar. 25; v. 260; p. 628.
- Richards, Hubert P., assignor to The Stanley Rule & Level Co., New Britain, Conn. Chain drill. No. 1,294,168; Feb. 11; v. 259; p. 309.
- Richards, James, Baltimore, Md. Aeroplane. No. 1,325,377; Dec. 16; v. 269; p. 512.
- Richards, James A., assignor to The Richards Manufacturing Company, Marietta, Ohio. Wheeled toy. No. 1,309,547; July 8; v. 264; p. 313.
- Richards, John H., A. J. Simon, and J. H. Haas, Overbrook, Kans. Timer-brush. No. 1,300,779; Apr. 15; v. 261; p. 534.
- Richards, John J., Jr., Brookline, Mass. Reserve-provider for fuel-tanks. No. 1,323,649; Dec. 2; v. 269; p. 80.
- Richards, John W., Somerville, Mass. Collapsible spring cot-bed. No. 1,302,434; Apr. 29; v. 261; p. 927.
- Richards, Joseph I., San Francisco, Cal. Artificial-tooth attachment and making and utilizing the same. No. 1,296,009; Mar. 4; v. 260; p. 43.
- Richards, Julius H., Newark, N. J. Engine starting device. No. 1,310,091; July 15; v. 264; p. 449.
- Richards, Julius H., Springfield, Mass. Engine starting device. No. 1,310,092; July 15; v. 264; p. 449.
- Richards, Julius H., Springfield, Mass. Engine starting device. No. 1,310,093; July 16; v. 264; p. 449.
- Richards, Julius H., assignor to Splitdorf Electrical Company, Newark, N. J. Switch mechanism. No. 1,325,654; Dec. 23; v. 269; p. 581.
- Richards, Julius H., assignor to Splitdorf Electrical Company, Newark, N. J. Switch mechanism. No. 1,325,655; Dec. 23; v. 269; p. 581.
- Richards, Julius H., assignor to Splitdorf Electrical Company, Newark, N. J. Starting-switch. No. 1,325,656; Dec. 23; v. 269; p. 581.
- Richards, Lambert B., Shields, Pa., and C. P. Watkins, Louisville, Ky., assignors to Tate-Jones & Co., Pittsburgh, Pa. Furnace. No. 1,308,743; July 1; v. 264; p. 135.
- Richards Manufacturing Company, The. (See Richards, James A., assignor.)
- Richards, Thomas M., New Philadelphia, Ohio. Signallantern. No. 1,309,155; July 8; v. 264; p. 240.
- Richards-Wilcox Manufacturing Company. (See Fitch, William H., assignor.)
- Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
- Richards, Willard F., Depew, and D. C. Davis, Buffalo, assignors to Gould Coupler Co., New York, N. Y. Draft and buffing gear. No. 1,295,210; Feb. 25; v. 259; p. 609.
- Richards, Willard F., Depew, and D. C. Davis, Buffalo, assignors to Gould Coupler Company, New York, N. Y. Buffing-gear for railway-cars. No. 1,323,787; Dec. 2; v. 269; p. 106.
- Richards, William E., Hohokus, N. J. Handle for tools and implements. No. 1,322,618; Nov. 25; v. 268; p. 592.
- Richardson, Alfonso A., New York, N. Y. Bed. No. 1,301,973; Apr. 29; v. 261; p. 840.
- Richardson, Arthur P., Los Angeles, Calif. Automatic inlet-valve mechanism for flush-tanks and the like. No. 1,311,713; July 29; v. 264; p. 813.
- Richardson, Arthur P., Los Angeles, Calif. Flush-tank-siphon mechanism. No. 1,311,714; July 29; v. 264; p. 813.
- Richardson, Bayard E., assignor to Mechano Gear Shift Company, Grand Rapids, Mich. Lock for motor-vehicles. No. 1,321,147; Nov. 11; v. 263; p. 212.
- Richardson, Charles E., New York, W. B. Eddison, Irvington, and H. L. Read, assignors to The Surface Combustion Company, New York, N. Y. Method of burning explosive gaseous mixtures. No. 1,308,739; July 1; v. 264; p. 134.
- Richardson, Charles G., Springfield, Vt. Measuring-machine. No. 1,304,603; May 27; v. 262; p. 502.
- Richardson, Charles H., Dover, N. H. Auxiliary attachment for razor-strops. No. 1,326,784; Dec. 30; v. 269; p. 829.
- Richardson, Charles M., Naugatuck, Conn., assignor of one-fourth to C. W. Dwy, Union City, Conn. Projectile. No. 1,292,374; Jan. 21; v. 258; p. 621.
- Richardson, Charles P. (See Ford, Richardson, Greenbaum, and Priest.)
- Richardson, Edward J., Windsor, assignor of one-third to S. A. Richardson, Springfield, Vt. Apparatus for curing, transporting, and stacking hay. No. 1,307,754; June 24; v. 263; p. 565.
- Richardson, Edward J. and J. R., assignors to G. R. Warner, Chamberlain, S. D. Self-adjusting belt. (Reissue.) No. 14,627; Apr. 1; v. 261; p. 181.
- Richardson, Elwood A. (See Richardson, Linwood T. and E. A.)
- Richardson, George R., Boston, Mass. Automatic valve-controller. No. 1,324,409; Dec. 9; v. 269; p. 269.
- Richardson, James E. (See Richardson, Edward J. and J. R.) (Reissue.)
- Richardson, John H., San Pedro, Calif. Safety-pin. No. 1,310,929; July 22; v. 264; p. 634.
- Richardson, John N., assignor to The Williamson Heater Company, Cincinnati, Ohio. Household-furnace. No. 1,309,260; July 8; v. 264; p. 259.
- Richardson, John N., assignor to The Williamson Heater Company, Cincinnati, Ohio. Underfeed mechanism. No. 1,314,903; Sept. 2; v. 266; p. 79.
- Richardson, John N., and E. A. Muller, assignor to The Williamson Heater Company, Cincinnati, Ohio. Furnace. No. 1,311,092; July 22; v. 264; p. 665.
- Richardson, Linwood T., Milwaukee, Wis., and E. Richardson, Cleveland, Ohio. Alloy. No. 1,317,592; Sept. 30; v. 266; p. 687.
- Richardson, Linwood T., Milwaukee, Wis., and E. A. Richardson, Cleveland, Ohio. Rust-resisting ferrous alloy. No. 1,317,593; Sept. 30; v. 266; p. 687.
- Richardson, Oliver L. (See Redmond, Harriman, and Richardson.)
- Richardson, Paley K., Mangum, Okla. Weaning-bit. No. 1,290,355; Jan. 7; v. 258; p. 82.



## Alphabetical list of patentees—Continued.

- Richardson, Ralph R., assignor to Chicago Carton Company, Chicago, Ill. Display-carton. No. 1,301,169; Apr. 22; v. 261; p. 654.
- Richardson, Ralph R., assignor to Chicago Carton Company, Chicago, Ill. Display-carton. No. 1,301,170; Apr. 22; v. 261; p. 654.
- Richardson, Ralph R., assignor to Chicago Carton Company, Chicago, Ill. Folding paper box. No. 1,301,171; Apr. 22; v. 261; p. 654.
- Richardson, Robert, Flushing, N. Y. Keyless padlock. No. 1,310,930; July 22; v. 264; p. 634.
- Richardson, Samuel A. (See Richardson, Edward J., assignor.)
- Richardson, Tolbert L., Brock, Nebr. Screen, curtain, or like article. No. 1,309,488; July 8; v. 264; p. 301.
- Richardson, Wilbur P., Beaver, Pa., assignor to E. S. Clarkson, Washington, D. C. Safety closure means. No. 1,309,218; July 8; v. 264; p. 251.
- Richardson, William, Toronto, Ontario, Canada. Releasing-hook. No. 1,297,402; Mar. 18; v. 260; p. 419.
- Richardson, William D., Chicago, Ill. Obtaining water-soluble potash. No. 1,295,601; Feb. 25; v. 259; p. 700.
- Richardson, William D., assignor to Swift & Company, Chicago, Ill. Continuous reduction-furnace. No. 1,303,114; May 6; v. 262; p. 121.
- Richardson, William D., assignor to Swift and Company, Chicago, Ill. Solidifying normally solid substances. No. 1,312,424; Aug. 5; v. 265; p. 107.
- Richardson, William H., Huntington, W. Va. Car-actuated switch. No. 1,322,345; Nov. 18; v. 268; p. 488.
- Richardson, William T., Grapevine, Tex. Plow. No. 1,319,619; Oct. 21; vol. 267; p. 460.
- Richel, Steve, Dunlop, Pa. Slicing apparatus. No. 1,302,592; May 6; v. 262; p. 20.
- Riches, George R., and W. C. Piver, Hoboken, N. J. Making arsenate of lead. No. 1,296,557; Mar. 4; v. 260; p. 166.
- Richie, James K., Butler, Pa. Balance-scales. No. 1,318,595; Oct. 14; v. 267; p. 240.
- Richison, J. W., et al. (See Van Borkum, John A., assignor.)
- Richmond, George C. (See Richmond and Kingsley.)
- Richmond Radiator Company. (See Blackham, George J., assignor.)
- Richmond, Thomas G., Bridge of Earn, Scotland, assignor of one-half to D. M. Wallace, Glasgow, Scotland. Traction-wheel. No. 1,292,375; Jan. 21; v. 258; p. 621.
- Richmond, Walter, Memphis, Tenn., assignor to J. E. Jenkins, Chicago, Ill. Electric-switch mechanism. No. 1,310,135; July 15; v. 264; p. 475.
- Richner, William V., Champaign, Ill. Convertible vehicle-body. No. 1,304,202; May 20; v. 262; p. 386.
- Richolson, H. L., et al., trustees. (See Stanard, Maurice L., assignor.)
- Richter, Ernest, Anchorage, Alaska. Mail-handling apparatus. No. 1,319,903; Oct. 28; v. 267; p. 537.
- Richter, Frederick W., St. Louis, Mo. Electric plug and socket. No. 1,305,308; June 3; v. 263; p. 15.
- Richter, George A. (See Moore and Richter.)
- Richter, George A., assignor to Brown Company, Berlin, N. H. Manufacturing lactic acid. No. 1,305,623; June 3; v. 263; p. 76.
- Richter, Herman F., Los Angeles, Cal. Hydrocarbon-burner. No. 1,293,198; Feb. 4; v. 259; p. 51.
- Richter, Herman F., Los Angeles, Calif. Flush-tank valve. No. 1,315,331; Sept. 9; v. 266; p. 167.
- Richter, Hubert A., Long Island City, N. Y. Insecticide. No. 1,324,848; Dec. 16; v. 269; p. 414.
- Richter, John J., Thief River Falls, Minn. Making packing-rings. No. 1,316,463; Sept. 16; v. 266; p. 389.
- Richter, John J., Thief River Falls, Minn. Packing-ring. No. 1,316,464; Sept. 16; v. 266; p. 389.
- Richter, Morten B., Copenhagen, Denmark. Relay for telephone-centrals, &c. No. 1,300,022; Apr. 8; v. 261; p. 346.
- Richter, Morten B., Copenhagen, Denmark. Three-conductor plug. No. 1,302,471; Apr. 29; v. 261; p. 935.
- Richter, Paul C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door-closer. No. 1,299,384; Apr. 1; v. 261; p. 174.
- Richter, Paul C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door-closer. No. 1,315,156; Sept. 2; v. 266; p. 124.
- Richter, Paul F., Boston, assignor to The Phonoharp Company, East Boston, Mass. Playing-guide for zithers. No. 1,320,571; Nov. 4; v. 268; p. 40.
- Rick, Chester, Philadelphia, Pa. Convertible chair. No. 1,292,061; Jan. 21; v. 258; p. 546.
- Rickard, Lester J., Seattle, Wash. Auto-signal. No. 1,324,434; Dec. 9; v. 269; p. 274.
- Ricke, George H., Cincinnati, assignor to J. W. Allman and A. McNeill, Hamilton county, Ohio. Arch-support. No. 1,299,615; Apr. 8; v. 261; p. 255.
- Ricker, Chester. (See Prindle, Franklin C., assignor.) (Reissue.)
- Ricker, James H., assignor of one-half to H. W. Eddy, St. Louis, Mo. Lasting-tack puller. No. 1,314,702; Sept. 2; v. 266; p. 44.
- Ricketson, William E., New York, N. Y., assignor of one-fourth to F. W. Murphy, one-fourth to R. W. Ritterer, and one-fourth to D. J. Mullen, Indianapolis, Ind. Hinge for boiler-fronts. No. 1,299,228; Apr. 1; v. 261; p. 139.
- Ricketts, Edwin B. (See Murray and Ricketts.)
- Ricketts, Forrest E., Baltimore, Md. Arc-extinguisher. No. 1,308,257; July 1; v. 264; p. 46.
- Ricketts, James R., Long Beach, Calif. Dual fuel-feed system for internal-combustion engines. No. 1,308,917; July 8; v. 264; p. 195.
- Ricks, Floyd K., Canton, Ill. Dump-box and frame. No. 1,308,507; July 1; v. 264; p. 91.
- Ricks, Fred, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting and sewing machine. No. 1,321,148; Nov. 11; v. 268; p. 212.
- Rico, Bert E., Los Angeles, Calif. Hose-stand. No. 1,306,676; June 10; v. 263; p. 303.
- Rico, Joseph B., Los Angeles, Calif. Water-sprinkler. No. 1,305,411; June 3; v. 263; p. 34.
- Riddell, Guy C. (See Davison and Riddell.)
- Riddell, Sherrod, Springfield, Ill. Switch-stand. No. 1,321,245; Nov. 11; v. 268; p. 231.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Camera-front. No. 1,294,705; Feb. 18; v. 259; p. 469.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic lens-carriage. No. 1,295,373; Feb. 25; v. 259; p. 646.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 1,298,791; Apr. 1; v. 261; p. 42.
- Riddle, George E., and W. Queirolo, San Francisco, Cal. Motion-picture-film container. No. 1,295,372; Feb. 25; v. 259; p. 645.
- Riddle, Leander W. (See Boyer, Harrison D., assignor.)
- Riddle, Leander W. (See Quintin, Clarence E., assignor.)
- Riddle, Napoleon B., Wilson, La. Record-ejector for talking-machines. No. 1,309,656; July 15; v. 264; p. 371.
- Riddle, Napoleon B., St. Francisville, La. Tie-presser. No. 1,325,308; Dec. 16; v. 269; p. 500.
- Riddle, Zala, and N. F. Wilkins, Dunsmuir, Calif. Air-brake apparatus. No. 1,312,357; Aug. 5; v. 265; p. 93.
- Ride E-Z Shock Absorber Company. (See Winger, William W., assignor.)
- Ridehalgh, George L., et al., executors. (See Royle, John J. and G. E.)
- Rideout, Arthur E., Chicago, Ill., assignor to National Binding Machine Company. Work-holder for the sealing of cartons. No. 1,310,580; July 22; v. 264; p. 570.
- Rideout, Arthur E., Chicago, Ill., assignor to National Binding Machine Company, New York, N. Y. Strip-serving device. No. 1,314,216; Aug. 26; v. 265; p. 531.
- Rider, Ernest G. (See Stokes and Rider.)
- Rider, Ernest G., Philadelphia, assignor to Stokes & Smith Company, Summerdale, Pa. Box-shell-feeding means for box-covering machines. No. 1,295,602; Feb. 25; v. 259; p. 700.
- Rider, Granville S., Brooklyn, assignor to I. H. Wise, New York, N. Y. Means for automatically cleaning and cooling spark-plug electrodes. No. 1,322,346; Nov. 18; v. 268; p. 489.
- Rider, Thomas B., assignor of one-half to A. Danziger, Los Angeles, Calif. X-ray tube. No. 1,310,714; July 22; v. 264; p. 594.
- Ridgely, Charles T., Springfield, Ohio. Demountable wheel. No. 1,298,792; Apr. 1; v. 261; p. 42.
- Ridgway, Robert W., Chicago, Ill., assignor to The Allbright-Nell Company. Carcass-dehairing machine. No. 1,322,821; Nov. 25; v. 268; p. 629.
- Ridington, A. B. (See Lowry, George A., assignor.)
- Ridington, A. Blair. (See Lowry, George A., assignor.)
- Ridington, Alfred B., St. Louis, Mo. Hand-pad for vehicle-doors. No. 1,308,993; July 8; v. 264; p. 209.
- Ridsdale, Herbert W. (See Leek and Ridsdale.)
- Rieb, Herman, New York, N. Y. Ornamental article. No. 1,306,627; June 10; v. 263; p. 293.
- Rieber, Frank, assignor to Rieber Laboratories, San Francisco, Calif. Apparatus for determining the direction of a source of sound. No. 1,299,616; Apr. 8; v. 261; p. 256.
- Rieber, Frank, assignor, by mesne assignments, to Rieber Laboratories, San Francisco, Calif. Apparatus for exciting Roentgen-ray tubes. No. 1,305,495; June 3; v. 263; p. 50.
- Rieber Laboratories. (See Rieber, Frank, assignor.)
- Rieck, William L., Kankakee, and W. W. Bretall, Oak Park, assignors to Paramount Knitting Company, Kankakee, Ill. Method and apparatus for turning hosiery. No. 1,321,944; Nov. 18; v. 268; p. 414.
- Riedele, Andrew P., Bowlus, Minn. Electric gear-shifting mechanism. No. 1,319,246; Oct. 21; v. 267; p. 390.
- Rieder, Talmon H., and W. B. Wiegand, Montreal, Quebec, Canada, assignors to The Goodyear's Metallic Rubber Shoe Company. Resilient rubber compound material. No. 1,305,008; May 27; v. 262; p. 578.
- Riedler, Alois, Berlin, Germany. Combustion-engine. No. 1,292,882; Jan. 28; v. 258; p. 764.
- Riedler, Alois, Berlin, Germany. Lubricating-oil pump. No. 1,295,211; Feb. 25; v. 259; p. 609.
- Rieflin, George H., Rochester, N. Y. Shaving-brush. No. 1,320,092; Oct. 28; v. 267; p. 572.
- Riegel Sack Company, The. (See Plass, Robert H., assignor.)



- Riegel, Samuel S., Scranton, Pa. Locomotive side rod. No. 1,300,023; Apr. 8; v. 261; p. 346.
- Rieger, Walter N., and W. D. Candee, Taft, Calif. Pipe-reinforcement and coupling therefor. No. 1,305,668; June 3; v. 263; p. 83.
- Riehle Bros. Testing Machine Co. (See Tretch, William J., assignor.)
- Rieker, Walter C., Philadelphia, Pa. Angularity-indicator. No. 1,305,935; June 3; v. 263; p. 134.
- Riemann, Hans G., Meadville, Pa. Indicative chart. No. 1,293,928; Feb. 11; v. 259; p. 252.
- Riemenschneider, Louis J., Hoboken, N. J. Adjustable folding chair. No. 1,301,877; Apr. 29; v. 261; p. 821.
- Ries, Edward C., Kansas City, Mo. Jar-closure. No. 1,323,723; Dec. 2; v. 269; p. 94.
- Ries, George F., Chicago, Ill. Composition for coloring meats and meat products. No. 1,318,109; Oct. 7; v. 267; p. 85.
- Riesberg, Van Vechton, assignor of one-half to F. H. Dougherty, Philadelphia, Pa. Radiator-valve. No. 1,291,148; Jan. 14; v. 258; p. 296.
- Rieske, Alfred G., Buffalo, N. Y. Device for plucking fowls. No. 1,323,492; Dec. 2; v. 269; p. 57.
- Rieske, Otto G., Toronto, Ontario, Canada, assignor to The Massey-Harris Company, Limited, Toronto, Ontario, Canada. Corn-planter. No. 1,298,259; Mar. 25; v. 260; p. 628.
- Rieth, William J., Valley City, N. D. Music-leaf turner. No. 1,297,011; Mar. 11; v. 260; p. 306.
- Rietz, William, assignor to White Wagon Works, Sheboygan Falls, Wis. Pin-bearing. No. 1,300,485; Apr. 15; v. 261; p. 472.
- Rietzel, Adolph F., Charlestown, R. I., assignor to Thomson Electric Welding Company, Lynn, Mass. Electric-welding transformer. No. 1,303,964; May 20; v. 262; p. 343.
- Riffard, Georges, New York, N. Y. Wrench. No. 1,303,595; May 13; v. 262; p. 237.
- Riffard, Georges, New York, N. Y. Jig system for aeroplane manufacture. No. 1,303,596; May 13; v. 262; p. 237.
- Rigby, Charles, Cincinnati, Ohio. Sanitary toilet-seat. No. 1,296,220; Mar. 4; v. 260; p. 93.
- Rigby, Clark F., Butler, Pa. Oil-well valve. No. 1,323,379; Dec. 2; v. 269; p. 30.
- Rigby, George E., Manchester, England. Frame for the bodies and wheels of side cars. No. 1,315,332; Sept. 9; v. 266; p. 167.
- Rigby, George E., Manchester, England. Spring-fork for motorcycles. No. 1,322,619; Nov. 25; v. 268; p. 592.
- Rigby, Thomas. (See Testrup and Rigby.)
- Rigda, Andrew, Bridgeport, Mich. Sled. No. 1,316,596; Sept. 23; v. 266; p. 463.
- Riggs, Alfred L., Pittsburgh, Pa., assignor to Visible Spark Plug Company, Spark-plug. No. 1,296,318; Mar. 4; v. 260; p. 114.
- Riggs, Henry H., Boston, Mass. Type-writer. No. 1,315,157; Sept. 2; v. 266; p. 125.
- Rightmire, Franklin, Paterson, N. J. Traction attachment for vehicle driving-wheels. No. 1,301,078; Apr. 15; v. 261; p. 601.
- Rigotard, Laurent E., Paris, France. Lubricating-bearing. No. 1,311,247; July 29; v. 264; p. 726.
- Riiber, Claus N., assignor to Norsk Alkali A. S., Trondheim, Norway. Purification of alkali-metal-chlorid solutions. No. 1,308,509; July 1; v. 264; p. 91.
- Rilse, John, Akron, Ohio. Wheel-hub. No. 1,301,505; Apr. 22; v. 261; p. 719.
- Rilse, John, Chicago, Ill. Wheel-hub. No. 1,301,506; Apr. 22; v. 261; p. 719.
- Rikard, Lester, Chandler, Okla. Railway safety-gate. No. 1,319,620; Oct. 21; v. 267; p. 461.
- Riker, Andrew L., Fairfield, Conn., assignor to The Locomobile Company of America, Bridgeport, Conn. Automobile-brake. No. 1,326,157; Dec. 23; v. 269; p. 673.
- Rikkelman, John. (See Edmison and Rikkelman.)
- Riley, Champlain L., North Plainfield township, Somerset county, N. J. Measuring apparatus. No. 1,297,595; Mar. 18; v. 260; p. 460.
- Riley, Champlain L., North Plainfield township, Somerset county, N. J., assignor to Clark, MacMullen & Riley, New York, N. Y. Process and apparatus for refining vegetable oils. No. 1,320,093; Oct. 28; v. 267; p. 572.
- Riley, Champlain L., North Plainfield township, Somerset county, N. J., assignor to Clark, MacMullen & Riley, New York, N. Y. Process and apparatus for refining vegetable oils. No. 1,320,094; Oct. 28; v. 267; p. 573.
- Riley, Edwin J., La Cygne, Kans. Automatic air-valve. No. 1,292,062; Jan. 21; v. 258; p. 547.
- Riley, Gerard B., and H. O. Mock, London, England. Submarine mine. No. 1,295,064; Feb. 18; v. 259; p. 552.
- Riley, Gerard B., and H. O. Mock, London, England. Submarine mine. No. 1,295,065; Feb. 18; v. 259; p. 552.
- Riley, Gerard B., C. C. Sherman, and H. O. Mock, London, England. Submarine mine. No. 1,295,066; Feb. 18; v. 259; p. 552.
- Riley, Gerard B., C. C. Sherman, and H. O. Mock, London, England. Submarine mine. No. 1,295,067; Feb. 18; v. 259; p. 552.
- Riley, James C., Los Angeles, Calif. Rupture appliance. No. 1,321,127; Nov. 11; v. 268; p. 208.
- Riley, James F., Lexington, Nebr. Sleeve-protector. No. 1,296,430; Mar. 4; v. 260; p. 137.
- Riley, Lester S., Greenwood, assignor of five-eighths to S. L. Sneiderson, Roxbury, Mass. Mounting-corner. No. 1,326,139; Dec. 23; v. 269; p. 670.
- Riley, Lewis A., 2d, White Plains, N. Y. Gas-burner. No. 1,306,501; June 10; v. 263; p. 270.
- Riley, Lynn G. (See Simmon and Riley.)
- Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,293,929; Feb. 11; v. 259; p. 252.
- Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,293,930; Feb. 11; v. 259; p. 252.
- Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,311,462; July 29; v. 264; p. 767.
- Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,312,752; Aug. 12; v. 265; p. 201.
- Riley, Ralph J., Livermore Falls, Me. Sprocket-conveyer. No. 1,326,785; Dec. 30; v. 269; p. 829.
- Riley, Robert S. (See Cameron and Riley.)
- Riley, Robert S., assignor to Sanford Riley Stoker Co., Ltd., Worcester, Mass. Automatic stoker. No. 1,292,649; Jan. 28; v. 258; p. 709.
- Riley, Robert S., assignor to Sanford Riley Stoker Co., Ltd., Worcester, Mass. Automatic stoker with moving dump-plate. No. 1,322,822; Nov. 25; v. 268; p. 630.
- Riley, Robert S., assignor to Sanford Riley Stoker Co., Ltd., Worcester, Mass. Adjustable driving connection for automatic stokers and other mechanisms. No. 1,323,650; Dec. 2; v. 269; p. 80.
- Riley, William A., et al. (See Kerr, Robert P., assignor.)
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et D'Homecourt, Paris, France. Device for feeding buffers for ordnance with liquids. No. 1,313,835; Aug. 19; v. 265; p. 424.
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et D'Homecourt, Paris, France. Regulating device for the flow of liquid in ordnance-buffers. No. 1,315,861; Sept. 9; v. 266; p. 262.
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et D'Homecourt, Paris, France. Detachable automobile caterpillar. No. 1,317,103; Sept. 23; v. 266; p. 558.
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et D'Homecourt, Paris, France. Regulating device for the flow of liquid in ordnance-buffers. No. 1,318,923; Oct. 14; v. 267; p. 302.
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et D'Homecourt, Paris, France. Regulating device for the flow of liquid in ordnance-buffers. No. 1,323,099; Nov. 25; v. 268; p. 682.
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine, et D'Homecourt, Paris, France. Wheeled gun-carriage. No. 1,323,100; Nov. 25; v. 268; p. 682.
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et D'Homecourt, Paris, France. Safety percussion-fuse, instantaneous or retarded. No. 1,326,786; Dec. 30; v. 269; p. 829.
- Rimmer, D. M. (See Tripp, John C., assignor.)
- Rimmer, Joseph, Malden, Mass., assignor to G. W. Bent Co., Boston, Mass. Crib. No. 1,317,177; Sept. 30; v. 266; p. 608.
- Rinaldi, Guerino, Wilmington, Del. Torpedo-guard. No. 1,307,023; June 17; v. 263; p. 399.
- Rindfleisch, Benjamin F. (See Smith and Rindfleisch.)
- Rindfleisch, Benjamin F., assignor to The National Acme Company, Cleveland, Ohio. Blank-feeding means for metal-working machines. No. 1,315,416; Sept. 9; v. 266; p. 182.
- Rindfleisch, Benjamin F., assignor to The National Acme Company, Cleveland, Ohio. Collapsible tap. No. 1,318,179; Oct. 7; v. 267; p. 99.
- Rinehardt, Carlton C., Loveland, Ohio. Corn-harvesting machine. No. 1,308,643; July 1; v. 264; p. 116.
- Rinehimer, Ernest, assignor to Vulcan Iron Works, Wilkes Barre, Pa. Air-tight door for pressure cylinders and tanks. No. 1,311,009; July 22; v. 264; p. 649.
- Ringe, Fred E., Washington, D. C. Applicator. No. 1,319,115; Oct. 21; v. 267; p. 364.
- Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Rotary-hook sewing-machine. No. 1,292,063; Jan. 21; v. 258; p. 547.
- Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Rotary take-up for sewing-machines. No. 1,292,064; Jan. 21; v. 258; p. 547.
- Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Lubricating means for sewing-machines. No. 1,293,931; Feb. 11; v. 259; p. 253.
- Ringel, Herman, Newark, N. J. Reinforced corrugated paper. No. 1,301,605; Apr. 22; v. 261; p. 737.
- Ringelspaugh Charles W. (See Haas and Ringelspaugh.)
- Ringer, Luther, assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Signal system for moving vehicles. No. 1,305,936; June 3; v. 263; p. 134.



## Alphabetical list of patentees—Continued.

- Ringer, Luther, assignor to The Simmen Automatic Railway Signal Company, Buffalo, N. Y. Signal system for single-track railways. No. 1,312,921; Aug. 12; v. 265; p. 234.
- Ringer, Luther, assignor to Simmen Automatic Railway Signal Company, Buffalo, N. Y. Automatic speed-control system. No. 1,317,727; Oct. 7; v. 267; p. 13.
- Ringler, William A., New York, N. Y. Safety index system. No. 1,317,392; Sept. 30; v. 266; p. 648.
- Ringler, William A., New York, N. Y. Box for index-cards. No. 1,325,537; Dec. 23; v. 269; p. 559.
- Ringling, Walter L., and G. Greenlee, assignors to National Wire Wheel Works, Geneva, N. Y. Locking device for demountable wheels. No. 1,317,393; Sept. 30; v. 266; p. 648.
- Ringman, Andrew, Chicago, Ill. Eye-shade. No. 1,325,581; Dec. 23; v. 269; p. 567.
- Ringquist, Justus M. (See Wrightson and Ringquist.)
- Rink, Henry, Perham, Minn. Potato picking and sorting machine. No. 1,321,851; Nov. 18; v. 268; p. 396.
- Rinman, Erik L., Djursholm, Sweden. Producing soda cellulose, particularly wood cellulose. No. 1,319,360; Oct. 21; v. 267; p. 411.
- Rinsche, Frank C., assignor to Burroughs Adding Machine Company, Detroit, Mich. Time-switch for adding-machines. No. 1,310,965; July 22; v. 264; p. 641.
- Rinsche, Frank C., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,325,681; Dec. 23; v. 269; p. 566.
- Rinsche, Frank C., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,325,603; Dec. 23; v. 269; p. 608.
- Rintelman, Anton H. (See Brown and Rintelman.)
- Rintoul, William. (See Nathan, Rintoul, and Baker.)
- Rintoul, William, and E. G. Beckett, assignors to Nobel's Explosives Company, Limited, Stevenston, Scotland. Explosive. No. 1,298,793; Apr. 1; v. 261; p. 42.
- Rintoul, William, and D. Cross, assignors to Nobel's Explosives Company Limited, Stevenston, Scotland. Explosive. No. 1,303,115; May 6; v. 262; p. 122.
- Rintoul, William, and D. Cross, assignors to Nobel's Explosives Company Limited, Stevenston, Scotland. Explosive. No. 1,306,440; June 10; v. 263; p. 259.
- Rintoul, William, and D. Cross, assignors to Nobel's Explosives Company, Limited, Stevenston, Scotland. Explosive. No. 1,310,489; July 22; v. 264; p. 553.
- Riordan, Emma H., South Rutland, N. Y. Vehicle-hub. No. 1,297,250; Mar. 11; v. 260; p. 358.
- Ripich, Louis J., Cleveland, and J. V. Horr, assignors of one-third to J. Kaufman, East Cleveland, Ohio. Safety device for machinery. No. 1,312,210; Aug. 5; v. 265; p. 67.
- Ripken, Hugh F. (See Kingan and Ripken.) (Reissue.)
- Ripley, Charles T., Chicago, Ill. Packing material for journal-boxes and the like. No. 1,298,794; Apr. 1; v. 261; p. 42.
- Ripley, William H., Orange, N. J., assignor to The Prometheus Electric Company. Electric switch. No. 1,299,617; Apr. 8; v. 261; p. 256.
- Rippenbein, Nicholas, Perth Amboy, N. J. Aeroplane. No. 1,309,961; July 15; v. 264; p. 427.
- Rippl, Charles H., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electromagnet. No. 1,292,650; Jan. 28; v. 258; p. 709.
- Rippl, Charles H., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Protective device for electric circuits. No. 1,292,651; Jan. 28; v. 258; p. 709.
- Rippl, Charles H., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electromagnetic overload device. No. 1,305,937; June 3; v. 263; p. 134.
- Ripsch, Charles W., assignor to The Joyce-Cridland Co., Dayton, Ohio. Lifting-jack. No. 1,318,801; Oct. 14; v. 267; p. 278.
- Rischar, Joseph J., Pasadena, Calif. Tire moulder and demoulder. No. 1,316,390; Sept. 16; v. 266; p. 375.
- Rischmuller, George, San Francisco, Calif. Expanding friction-brake. No. 1,316,806; Sept. 23; v. 266; p. 502.
- Risdon, Ivan, Seattle, Wash. Furnace. No. 1,315,158; Sept. 2; v. 266; p. 125.
- Risdon, Joshua B., Perham, Minn. Egg-serving tray. No. 1,322,620; Nov. 25; v. 268; p. 593.
- Risedorf, Harry L., Brooklyn, N. Y. Direction-indicator for motor-vehicles. No. 1,295,603; Feb. 25; v. 259; p. 700.
- Riser, Henry, assignor of one-half to A. E. Wells, Bonners Ferry, Idaho. Rear rifle-sight. No. 1,293,551; Feb. 4; v. 259; p. 134.
- Rishel, Harry A., Philadelphia, Pa. Automobile-radiator shield. No. 1,298,094; Mar. 25; v. 260; p. 591.
- Rishel, Harry A., Philadelphia, Pa. Automobile-radiator shield. No. 1,298,095; Mar. 25; v. 260; p. 591.
- Rising, Nellie M., Weston, W. Va. Canning device. No. 1,294,706; Feb. 18; v. 259; p. 470.
- Risk, Loren. (See McElroy and Risk.)
- Risser, Arthur I., assignor to U. S. Bottlers' Machinery Company, Chicago, Ill. Bottle-corking machine. No. 1,306,502; June 10; v. 263; p. 271.
- Risser, George P., and A. P. Williams, Seattle, Wash. Metal-cutting machine. No. 1,300,879; Apr. 15; v. 267; p. 555.
- Rissinger, Harry E., Pittston, Pa. Collar-button. No. 1,307,271; June 17; v. 263; p. 444.
- Rissler, Albin P. (See Busse and Rissler.)
- Rissler, George W., Caspar, Wyo. Nut-lock. No. 1,290,357; Jan. 7; v. 258; p. 83.
- Ristine, George W., Jr., Chicago, Ill., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Car-roof. No. 1,309,777; July 15; v. 264; p. 392.
- Ritcheson, Alvin A., Dallas, Tex. Motor-vehicle body. No. 1,293,199; Feb. 4; v. 259; p. 52.
- Ritchey, Arthur E. (See Clymer and Ritchie.)
- Ritchie, George W., Oak Hill, Fla. Foldable crate. No. 1,308,682; July 1; v. 264; p. 122.
- Riter-Conley Manufacturing Company. (See Carpenter, Henry A., assignor.)
- Riter-Conley Manufacturing Company. (See Carpenter and Warner, assignors.)
- Ritsem, Albert, Wichert, Ill. Coal-sifter. No. 1,324,067; Dec. 9; v. 269; p. 203.
- Rittase, Ephram N., Baltimore, Md. Cigar-holder. No. 1,308,113; July 1; v. 264; p. 20.
- Ritter, Frank T., Edgerley, La. Automatic stopping means for tractors. No. 1,321,334; Nov. 11; v. 268; p. 248.
- Ritter, Henry J., Tippecanoe City, Ohio. Table-top for kitchen-cabinets. No. 1,320,177; Oct. 28; v. 267; p. 587.
- Ritter, James F., Seattle, Wash. Vegetable-cutter. No. 1,291,149; Jan. 14; v. 258; p. 297.
- Ritter, Joseph R., Hastings, Mo. Self-fastening container. No. 1,309,341; July 8; v. 264; p. 274.
- Ritter, Paul A. (See Regenbogen and Ritter.)
- Ritter, Paul A., Kiel, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Piston for internal-combustion engines. No. 1,305,567; June 3; v. 263; p. 64.
- Ritter, Paul A., Kiel, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Safety device. No. 1,311,774; July 29; v. 264; p. 825.
- Ritter, Sophus P., assignor to F. O. Bloch, Copenhagen, Denmark. Cash-control apparatus. No. 1,306,973; June 17; v. 263; p. 390.
- Ritterer, Raymond W. (See Ricketson, William E., assignor.)
- Ritterath, Max J., Los Angeles, Calif. Dropper-holder. No. 1,326,873; Dec. 30; v. 269; p. 846.
- Rittigstein, Jacob. (See Samuels and Rittigstein.)
- Ritz, George A., Rochester, N. Y. Vending-machine. No. 1,293,200; Feb. 4; v. 259; p. 52.
- Rived, Francisco, Madrid, Spain. Angle-gage apparatus for use in mining. No. 1,307,987; June 24; v. 263; p. 608.
- Rivelis, Samuel, Philadelphia, Pa. Attachment device for shoe-buckles. No. 1,303,116; May 6; v. 262; p. 122.
- Rivelis, Samuel, Philadelphia, Pa. Ornamental shoe-buckle and attachment device therefor. No. 1,316,741; Sept. 23; v. 266; p. 491.
- River Smelting & Refining Company. (See MacKaye, James, assignor.)
- Rivero, Luis D., Mexico, Mexico. Concrete rail for motor-driven vehicles and rubber tires. No. 1,322,621; Nov. 25; v. 268; p. 593.
- Rivers, Benjamin W., Portland, assignor to National Metal Seal Corporation, Deering Junction, Portland, Me. Closure for containing vessels. No. 1,304,098; May 20; v. 262; p. 367.
- Rivett, Edward, Hull, Mass. Power transmission for grinding and similar machines. No. 1,302,222; Apr. 29; v. 261; p. 886.
- Rivett Lathe and Grinder Company. (See Halstead, Frederick H., assignor.)
- Rivière, Fernando. (See Rivière, Francisco and F.)
- Rivière, Francisco and F., Barcelona, Spain. Apparatus for the manufacture of wire-netting. No. 1,310,966; July 22; v. 264; p. 641.
- Rixson, Oscar C., New Rochelle, N. Y. Self-locking screw. No. 1,310,213; July 15; v. 264; p. 471.
- Rixson, Oscar C., New Rochelle, N. Y. Lock. No. 1,316,326; Sept. 16; v. 266; p. 363.
- Rixson, Oscar C., New Rochelle, N. Y. Lock. No. 1,316,327; Sept. 16; v. 266; p. 363.
- Rixson, Oscar C., New Rochelle, N. Y. Lock. No. 1,316,328; Sept. 16; v. 266; p. 364.
- Rixson, Oscar C., New Rochelle, N. Y. Door-lock. No. 1,316,329; Sept. 16; v. 266; p. 364.
- Rizor, Jacob H., Van Wert, Ohio. Attachment for plows. No. 1,296,319; Mar. 4; v. 260; p. 114.
- Roach, Arthur M. (See Adams and Roach.)
- Roach, Burtus U., Bronson, Mich. Folding clothes-retainer. No. 1,314,608; Sept. 2; v. 266; p. 25.
- Roach, Edwin G., New York, N. Y. Device for extruding paste from tubes. No. 1,320,275; Oct. 28; v. 267; p. 606.
- Roach, Finis E., Chicago, Ill. Lawn-sprinkler. No. 1,308,371; July 1; v. 264; p. 66.
- Roach, Harry F., St. Louis, Mo. Rail-joint. No. 1,320,572; Nov. 4; v. 268; p. 40.
- Roach, Harry F., St. Louis, Mo. Insulated rail-joint. No. 1,320,573; Nov. 4; v. 268; p. 40.



- Roach, Joseph H., Brookline, and F. Frick, Waynesboro, Pa.; said Frick assignor to said Roach. Underfeed-stoker furnace. No. 1,321,335; Nov. 11; v. 268; p. 248.
- Roads, Samuel H., Springfield, Mass. Triangle for engineering-drafting. No. 1,315,333; Sept. 9; v. 266; p. 167.
- Robards, Edward J., Alexandria, Minn. Road-scraper. No. 1,313,115; Aug. 12; v. 265; p. 273.
- Robards, Otho N., Henderson, Ky. Seat-rail attachment for top-carriages. No. 1,302,223; Apr. 29; v. 261; p. 886.
- Robb, Fred D., assignor of one-half to B. R. Pilcher, Dothan, Ala. Automatic pneumatic semaphore and train-stop mechanism. No. 1,302,711; May 6; v. 262; p. 43.
- Robbins, Albert F., Waltham, Mass. Jeweler's tool chuck and handle. No. 1,306,354; June 10; v. 263; p. 244.
- Robbins, Clarence, University, Mo. Container for grease, oil, &c. No. 1,324,849; Dec. 16; v. 269; p. 414.
- Robbins, Guy F., Portland, Oreg. Universal iron-working machine. No. 1,303,394; May 13; v. 262; p. 200.
- Robbins, Harlan R. (See Wheeler and Robbins.)
- Robbins, Hugh P., assignor to Weller Manufacturing Company, Chicago, Ill. Receiving apparatus for sugar-beets. No. 1,307,458; June 24; v. 263; p. 512.
- Robbins, Jacob M. (See Johnson and Robbins.)
- Robbins, John L. (See Reed, John G., assignor.)
- Robbins, John W., assignor of one-half to Henry Doherty Silk Company, Paterson, N. J. Winding-machine. No. 1,307,376; June 24; v. 263; p. 497.
- Robbins, Nova B., assignor to himself and J. G. Ambrose, San Diego, Calif. Internal-combustion engine. No. 1,324,520; Dec. 9; v. 269; p. 291.
- Robbins, Ray N., East Orange, N. J. Fountain shaving-brush. No. 1,300,651; Apr. 15; v. 261; p. 506.
- Robbins, Robert R., Florence, Ky. Wire-fence tightener. No. 1,304,806; May 27; v. 262; p. 540.
- Robbins, William, and H. F. Bryan, Chicago, Ill. Engine-governor. No. 1,302,855; May 6; v. 262; p. 72.
- Robens, Frederick A., Toledo, Ohio. Spark-tester. No. 1,298,795; Apr. 1; v. 261; p. 42.
- Roberts, Benjamin M., Chanute, Kans. Automatic valve-controlling mechanism. No. 1,322,951; Nov. 25; v. 268; p. 654.
- Roberge, Edgar J. (See McCaffrey and Roberge.)
- Robertson, John J., Springfield, assignor of one-half to J. L. Rounds, Colton, Utah. Precious-metal separator. No. 1,297,911; Mar. 18; v. 260; p. 528.
- Robertson, John M., Seattle, Wash. Power-drill. No. 1,315,422; Sept. 9; v. 266; p. 183.
- Robert, Augusta E., Oakland, Calif. Adjustable support for curtains and draperies. No. 1,305,412; June 3; v. 263; p. 34.
- Robert Gair Company. (See Andrews, James M., assignor.)
- Robert Gair Company. (See Tinsley, Edward O., assignor.)
- Robert, Louis F. (See Farland and Robert.)
- Robert N. Bassett Company. (See Caligan, William L., assignor.)
- Robert N. Bassett Company. (See Smith and Curnan, assignors.) (Reissue.)
- Robert N. Bassett Company. (See Stuart, Henry J., assignor.)
- Robert, Xavier, La Rochelle, France. Hydrostatic balance with counter. No. 1,317,104; Sept. 23; v. 266; p. 558.
- Robertson, Charles G. (See Belyavin and Robertson.)
- Roberts, Abel H., Montreal, Quebec, Canada, assignor to International Arms and Fuze Company, New York, N. Y. Powder-separator. No. 1,310,633; July 22; v. 264; p. 580.
- Roberts, Albert J., Pittsburgh, Pa. Portable rubbish-burner. No. 1,292,065; Jan. 21; v. 258; p. 547.
- Roberts, Albert O., Newport News, Va. Condiment-holder. No. 1,323,101; Nov. 25; v. 268; p. 682.
- Roberts, Alonzo J., assignor to Williams Patent Crusher and Pulverizer Co., St. Louis, Mo. Pneumatic metal-catcher. No. 1,306,775; June 17; v. 263; p. 353.
- Roberts, Arthur, Evanston, Ill. Fuel-piping for coke-ovens. No. 1,292,066; Jan. 21; v. 258; p. 548.
- Roberts, Arthur, Evanston, Ill. Block for heating walls and the like. No. 1,295,796; Feb. 25; v. 259; p. 744.
- Roberts, Arthur, Evanston, Ill. Reflex coke-oven. No. 1,304,907; May 27; v. 262; p. 559.
- Roberts, Arthur, Evanston, Ill. Preheating. No. 1,304,908; May 27; v. 262; p. 559.
- Roberts, Arthur, Evanston, Ill. Regenerative coke-oven. No. 1,313,207; Aug. 12; v. 265; p. 290.
- Roberts, Arthur, Evanston, Ill. Regenerative coke-oven. No. 1,313,208; Aug. 12; v. 265; p. 290.
- Roberts, Charles A. L., Birmingham, England. Aeroplane-strut or the like. No. 1,325,378; Dec. 16; v. 269; p. 512.
- Roberts, Charles F., assignor to Chicago Metal Products Company, Chicago, Ill. Phonographic driving mechanism. No. 1,293,622; Feb. 4; v. 259; p. 150.
- Roberts, Charles H., Salt Lake City, Utah. Wave and current motor. No. 1,300,194; Apr. 8; v. 261; p. 384.
- Roberts, Charles O. (See Willour and Roberts.)
- Roberts, Chester E., Seattle, Wash. Packing-box. No. 1,292,883; Jan. 28; v. 258; p. 764.
- Roberts, Clarence V., assignor to Roberts & Mander Stove Company, Philadelphia, Pa. Oven structure for gas-ranges. No. 1,318,802; Oct. 14; v. 267; p. 278.
- Roberts, Clark L., Caldwell, Idaho. Corrugator. No. 1,324,210; Dec. 9; v. 269; p. 230.
- Roberts, Clifton H., Hazard, Nebr. Valve-lifting device. No. 1,316,865; Sept. 23; v. 266; p. 513.
- Roberts, Daniel C., Trenton, N. J. Inner-tube substitute. No. 1,295,604; Feb. 25; v. 259; p. 700.
- Roberts, Daniel W. (See Perkins and Roberts.)
- Roberts, David E., Racine, Wis. Lighting-fixture. No. 1,302,712; May 6; v. 262; p. 44.
- Roberts, Edwin L., Nashville, Tenn. Combined mouth-gag and tongue-depressor. No. 1,319,904; Oct. 28; v. 267; p. 537.
- Roberts, Eugene, assignor to Sugar Centrifugal Discharger Co., Salt Lake City, Utah. Screen for centrifugal baskets. No. 1,300,486; Apr. 15; v. 261; p. 472.
- Roberts, Eugene, assignor to The Western States Machine Company, Salt Lake City, Utah. Demountable pulley. No. 1,322,055; Nov. 18; v. 268; p. 434.
- Roberts, Fred T., Cleveland, Ohio. Tube for pneumatic tires. No. 1,310,438; July 22; v. 264; p. 544.
- Roberts, Fred T., Cleveland, Ohio. Flush-tank bulb. No. 1,313,914; Aug. 26; v. 265; p. 473.
- Roberts, Fred T., Cleveland Heights, assignor to The Aranan Company, Cleveland, Ohio. Process of and apparatus for making hollow rubber articles. (Reissue.) No. 14,603; Mar. 4; v. 260; p. 176.
- Roberts, Fred T., Cleveland Heights, assignor to The Aranan Company, Cleveland, Ohio. Process of and apparatus for making hollow rubber articles. (Reissue.) No. 14,604; Mar. 4; v. 260; p. 176.
- Roberts, Fred T., assignor of one-half to R. H. Rosenfeld, Cleveland, Ohio. Vulcanizing tires. No. 1,304,909; May 27; v. 262; p. 559.
- Roberts, Fred T., assignor to The Paramount Rubber Company, Cleveland, Ohio. Making tubes for pneumatic tires. No. 1,310,436; July 22; v. 264; p. 544.
- Roberts, Fred T., assignor to The Paramount Rubber Company, Cleveland, Ohio. Making inflatable rubber articles. No. 1,310,437; July 22; v. 264; p. 544.
- Roberts, Fred T., Cleveland Heights, assignor to The Paramount Rubber Company, Cleveland, Ohio. Method and apparatus for making hollow rubber articles. No. 1,310,439; July 22; v. 264; p. 544.
- Roberts, Fred T., assignor to The Paramount Rubber Company, Cleveland, Ohio. Method and apparatus for making hollow rubber articles. No. 1,310,440; July 22; v. 264; p. 544.
- Roberts, Fred T., assignor to The Paramount Rubber Company, Cleveland, Ohio. Method and apparatus for making hollow rubber articles. No. 1,310,441; July 22; v. 264; p. 545.
- Roberts, Fred T., assignor to The Paramount Rubber Company, Cleveland, Ohio. Process and apparatus for making hollow rubber articles. No. 1,310,442; July 22; v. 264; p. 545.
- Roberts, Fred T., assignor to The Paramount Rubber Company, Cleveland, Ohio. Method and apparatus for making corrugated rubber articles. No. 1,324,850; Dec. 16; v. 269; p. 414.
- Roberts, George A., Chicago, Ill. Railway-car-washing apparatus. No. 1,298,096; Mar. 25; v. 260; p. 591.
- Roberts, George H. (See Callahan and Roberts.)
- Roberts, Gerald I. (See King and Roberts.)
- Roberts, Harry G., assignor to The Williams, Greene & Rome Company Limited, Kitchener, Ontario, Canada. Collar. No. 1,306,278; June 10; v. 263; p. 230.
- Roberts, Henry H., Jr., Philadelphia, assignor to J. W. Watson, Wayne, Pa. Telltale device for tires. (Reissue.) No. 14,699; July 29; v. 264; p. 842.
- Roberts, Henry P., Boston, assignor of one-half to F. J. Brown, Woburn, Mass. Humidifier for automobile-engines. No. 1,290,783; Jan. 7; v. 258; p. 185.
- Roberts, Herbert, Keighley, England. Cloth-guiding device. No. 1,326,531; Dec. 30; v. 269; p. 782.
- Roberts, Homer J., Evanston, Ill. assignor, by mesne assignments, to Automatic Electric Company. Telephone system. No. 1,297,251; Mar. 11; v. 260; p. 358.
- Roberts, Hugh L., Liverpool, England. Baling-press. No. 1,318,110; Oct. 7; v. 267; p. 85.
- Roberts, Isaiah L., Nueva Gerona, Isle of Pines, West Indies, assignor of one-half to W. C. Lichtenstein, Jersey City, N. J. Propeller. No. 1,323,102; Nov. 25; v. 268; p. 683.
- Roberts, James G., Alton, Kans. Hook for tire-chains. No. 1,314,832; Sept. 2; v. 266; p. 67.
- Roberts, James H., Charleston, S. C. Sliding door. No. 1,294,169; Feb. 11; v. 259; p. 309.
- Roberts, Joseph, Philadelphia, Pa. Apparatus for filling milk-cans. No. 1,290,358; Jan. 7; v. 258; p. 83.
- Roberts, John A., assignor to United Alkali Company, Limited, Liverpool, England. Permanent way of railways and tramways. No. 1,307,880; June 24; v. 263; p. 588.
- Roberts, John C., New Iberia, La. Valve. No. 1,319,116; Oct. 21; v. 267; p. 364.
- Roberts, John H., Syracuse, assignor of one-half to C. W. Salisbury, Cortland, N. Y. Coin-controlled newspaper-vending machine. No. 1,314,217; Aug. 26; v. 265; p. 531.



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- Roberts, John T. (See Hafner and Roberts.)
- Roberts, John W., Passaic, N. J. Textile apparatus. No. 1,312,874; Aug. 12; v. 265; p. 225.
- Roberts, John W., Sarnia, Ontario, Canada. Pipe-coupling for railway rolling-stock. No. 1,324,270; Dec. 9; v. 269; p. 241.
- Roberts, Joseph W., Louisville, Ky. Time-switch. No. 1,317,893; Oct. 7; v. 267; p. 44.
- Roberts, Julius O., Abilene, Kans. Foot-scraper. No. 1,318,231; Oct. 7; v. 267; p. 110.
- Roberts, Laurence S., Leechburg, Pa. Combined hot-water and hot-air heater. No. 1,292,515; Jan. 28; v. 258; p. 676.
- Roberts, Lyman R., Rutherford, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Multiple-bellows pump. No. 1,307,459; June 24; v. 263; p. 512.
- Roberts & Mander Stove Company. (See Roberts, Clarence V., assignor.)
- Roberts, Merritt E. (See Barlow and Roberts.)
- Roberts, Montague H., Jersey City, N. J., assignor to Air Reduction Company, Inc., New York, N. Y. Portable apparatus for the storage and supply of compressed gases. No. 1,294,707; Feb. 18; v. 259; p. 470.
- Roberts, Montague H., Jersey City, N. J., assignor to Air Reduction Company, Incorporated. Explosive cartridge. No. 1,293,097; Mar. 25; v. 260; p. 592.
- Roberts, Montague H., Jersey City, N. J., and C. C. Van Nuys, New York, N. Y., assignors to Air Reduction Company, Incorporated. Electric welding. No. 1,309,696; July 16; v. 264; p. 378.
- Roberts, Omer L., Macy, Ind. Insulator. No. 1,305,168; May 27; v. 262; p. 608.
- Roberts, Raney J., Detroit, Mich. Portable bathtub and heater. No. 1,315,987; Sept. 16; v. 266; p. 300.
- Roberts, Raney J., Detroit, Mich. Water-heater. No. 1,315,988; Sept. 16; v. 266; p. 300.
- Roberts, Rockwood T., Worcester, Mass. Car-door lock. No. 1,294,949; Feb. 18; v. 259; p. 526.
- Roberts and Schaefer Company. (See Ross, Clyde P., assignor.)
- Roberts, Webster M., St. Joseph, Mo. Baking and molding device. No. 1,294,536; Feb. 18; v. 259; p. 430.
- Roberts, William E., Riverdale, Oreg. Gas-engine. No. 1,313,836; Aug. 19; v. 265; p. 424.
- Roberts, William M. (See McElhinny, John W., assignor.)
- Roberts, William R., Dallas, Tex., and E. M. Heylman, assignors to Oliver Chilled Plow Works, South Bend, Ind. Gearing for the feed mechanism of planters. No. 1,311,010; July 22; v. 264; p. 649.
- Roberts, William T., Buckingham, Leicester, England, assignor by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for utilizing fastenings. No. 1,312,578; Aug. 12; v. 265; p. 168.
- Robertshaw, Charles S., Natchitoches, La. Watch-protecting device. No. 1,300,024; Apr. 8; v. 261; p. 346.
- Robertshaw, Frederick W., Pittsburgh, Pa. Thermostatic valve mechanism. No. 1,292,516; Jan. 28; v. 258; p. 676.
- Robertshaw, Frederick W., Pittsburgh, Pa. Vent-T for lavatories. No. 1,292,517; Jan. 28; v. 258; p. 676.
- Robertshaw, Frederick W., Pittsburgh, Pa. Flushing-valve for closet-tanks. No. 1,292,518; Jan. 28; v. 258; p. 677.
- Robertshaw Manufacturing Company. (See Housholder, William, assignor.)
- Robertson, Alexander C., North Sydney, and F. Volk, Enfield, New South Wales, Australia, assignors to Universal Grinding Machine Company, Reno, Nev. Lens grinding and polishing machine. No. 1,318,300; Oct. 7; v. 267; p. 123.
- Robertson, Alexander J., Wycliffe, British Columbia, Canada. Sealing or stopping leaks in pipe-joints. No. 1,322,347; Nov. 18; v. 268; p. 489.
- Robertson, Alexander R., Vancouver, British Columbia, Canada. Cork. No. 1,301,501; Apr. 22; v. 261; p. 718.
- Robertson, Archibald, Seattle, Wash. Vaporizing-primer. No. 1,318,693; Oct. 14; v. 267; p. 258.
- Robertson, Archibald J., deceased; A. C. Rex, administrator, Philadelphia, Pa. Axle and wheel for vehicles. No. 1,302,856; May 6; v. 262; p. 72.
- Robertson, Bedford S. (See St. Clair and Robertson.)
- Robertson, Burton J. (See Frazer and Robertson.)
- Robertson, Edwin L., New York, N. Y. Oil-burner. No. 1,300,487; Apr. 15; v. 261; p. 473.
- Robertson, Edwin L., New York, N. Y. Rubber heel. No. 1,301,974; Apr. 29; v. 261; p. 840.
- Robertson, Frederick D. S., Toronto, Ontario, Canada. Extracting potassium from its insoluble compounds. No. 1,317,524; Sept. 30; v. 266; p. 673.
- Robertson, Frederick O. (See Race and Robertson.)
- Robertson, George, Durango, Colo. Flying-machine. No. 1,302,435; Apr. 29; v. 261; p. 929.
- Robertson, Gilbert, Vancouver, British Columbia, Canada. Trolling-spoon. No. 1,306,719; June 17; v. 263; p. 343.
- Robertson, Harold H., Sewickley, assignor to Asbestos Protected Metal Company, Pittsburgh, Pa. Composite board. No. 1,292,067; Jan. 21; v. 258; p. 548.
- Robertson, Harry E., Wilmington, N. C. Lock-nut for couplings. No. 1,305,009; May 27; v. 262; p. 578.
- Robertson, Henry M. (See Gilman, George H., assignor.)
- Robertson, Holdman, Farmington, assignor of one-half to C. Hartshorn, Elvins, Mo. Car-replacer. No. 1,318,010; Oct. 7; v. 267; p. 67.
- Robertson, Jesse N., Omaha, Nebr. Shoe-cleaner. No. 1,326,290; Dec. 30; v. 269; p. 735.
- Robertson, John A., and P. W. Tierney, assignors to Eastman Kodak Company, Rochester, N. Y. Gun-camera. No. 1,318,803; Oct. 14; v. 267; p. 279.
- Robertson, John E., Norfolk, Va. Thief-proof attachment for portable receptacles. No. 1,315,038; Sept. 2; v. 266; p. 103.
- Robertson, John H., London, England. Sighting device. No. 1,301,502; Apr. 22; v. 261; p. 718.
- Robertson, Peter, et al. (See Robertson, William, assignor.)
- Robertson, Robert R., La Grange, Ill. Method and means for effecting water-tight joints in aqueducts and the like. No. 1,317,943; Oct. 7; v. 267; p. 54.
- Robertson, William, assignor of one-half to P. Robertson, New Hartford, N. Y., and one-fourth to W. Robertson, Sr., Carnoustie, Scotland. Golf-club. No. 1,306,029; June 10; v. 263; p. 181.
- Robertson, William, Sr., et al. (See Robertson, William, assignor.)
- Robertson, William A., Glasgow, Scotland, assignor of one-half to W. Henderson, Toronto, Ontario, Canada. Door. No. 1,310,840; July 22; v. 264; p. 619.
- Robertson, William P., assignor to The Calorex Corporation, New York, N. Y. Dispensing device. No. 1,319,534; Oct. 21; v. 267; p. 444.
- Robeson, Jacob S., Pennington, N. J. Adhesive and making same. No. 1,292,068; Jan. 21; v. 258; p. 548.
- Robeson, Jacob S., Pennington, N. J. Manufacture of dyestuffs. No. 1,316,742; Sept. 23; v. 266; p. 491.
- Robeson, William B. (See Treadgold, George H., assignor.)
- Robeson, William B., Port Huron, Mich., assignor of one-half to W. I. Gear, Montreal, Quebec, Canada. Air-inlet device. No. 1,304,374; May 20; v. 262; p. 420.
- Robichon, Georges H., Three Rivers, Quebec, Canada. Diary. No. 1,299,782; Apr. 8; v. 261; p. 295.
- Robillard, Frederick J., St. Thomas, Ontario, Canada. Locomotive brake-rod safety bracket-hanger. No. 1,310,295; July 15; v. 264; p. 486.
- Robin, Jacob I., New York, N. Y. Gas-burner. No. 1,304,507; May 27; v. 262; p. 541.
- Robin, Victor J., Butte, Mont. Plumber's torch. No. 1,322,952; Nov. 25; v. 268; p. 654.
- Robinet, Clarence O., Toledo, Ohio. Tractor non-skid member and lug. No. 1,304,375; May 20; v. 262; p. 420.
- Robinet, Calvin A., Bowling Green, Ohio. Shade and curtain bracket. No. 1,313,915; Aug. 26; v. 265; p. 473.
- Robinson, Albert E., and A. M. Sosa, assignors to The American Tool Works Company, Cincinnati, Ohio. Clutch. No. 1,293,552; Feb. 4; v. 259; p. 134.
- Robinson, Albert P., Kenvil, N. J. Lighting system. No. 1,304,203; May 20; v. 262; p. 386.
- Robinson, Albert S., Weston, Colo. Tube-expander. No. 1,305,669; June 3; v. 263; p. 83.
- Robinson, Arthur W., Montreal, Quebec, Canada. Dipper-dredge. No. 1,323,323; Dec. 2; v. 269; p. 19.
- Robinson, Charles A., Pueblo, Colo. Chair. No. 1,291,150; Jan. 14; v. 258; p. 297.
- Robinson, Charles A., Oklahoma, Okla. Machine for staining and treating shingles. No. 1,325,110; Dec. 16; v. 269; p. 462.
- Robinson, Charles J. (See Robinson, Edward W. and C. J.)
- Robinson, Charles W., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company. Feed-cup for grain-drills. No. 1,291,151; Jan. 14; v. 258; p. 297.
- Robinson, Charles W., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company. Grain-box for drills or the like. No. 1,291,152; Jan. 14; v. 258; p. 297.
- Robinson, Charles W., Hamilton, Ontario, Canada, assignor to International Harvester Company. Driving mechanism. No. 1,291,153; Jan. 14; v. 258; p. 297.
- Robinson, Charles W., Hamilton, Ontario, Canada, assignor to International Harvester Company of Canada, Limited. Disk-bearing for grain-drills. No. 1,306,776; June 17; v. 263; p. 354.
- Robinson, Charles W., Hamilton, Ontario, Canada, assignor to International Harvester Company of Canada, Limited. Control means for earthworking-tools. No. 1,319,489; Oct. 21; v. 267; p. 436.
- Robinson, Clarence P., Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cleaning and polishing composition. No. 1,307,149; June 17; v. 263; p. 422.
- Robinson, Earl E., Des Moines, Iowa. Plumber's plug. No. 1,292,069; Jan. 21; v. 258; p. 548.
- Robinson, Edmund G., Montclair, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fireproof composition. No. 1,310,841; July 22; v. 264; p. 619.



- Robinson, Edward S., Sacramento, Cal. Spot-light. No. 1,290,784; Jan. 7; v. 258; p. 185.
- Robinson, Edward W., Savannah, Ga. Retainer for terminal staves of wire-bound barrels. No. 1,291,154; Jan. 14; v. 258; p. 298.
- Robinson, Edward W. and C. J., Savannah, Ga. Machine for setting up wire-bound barrels. No. 1,294,950; Feb. 18; v. 259; p. 527.
- Robinson, Edward W. and C. J., Savannah, Ga. Barrel-making machine. No. 1,300,025; Apr. 8; v. 261; p. 346.
- Robinson, Edward W. and C. J., Savannah, Ga. Securing heads in wire-bound barrels. No. 1,320,924; Nov. 4; v. 268; p. 107.
- Robinson, Edward W. and C. J., Savannah, Ga. Machine for making wire-bound barrels. No. 1,324,619; Dec. 9; v. 269; p. 309.
- Robinson, Enos, Southampton, England. Artificial hand. No. 1,304,099; May 20; v. 262; p. 367.
- Robinson, Ernest R., Carneys Point, N. J. Butter-fat gage. No. 1,312,358; Aug. 5; v. 265; p. 94.
- Robinson, Eugene M., Chicago, Ill. Switch-stand. No. 1,325,754; Dec. 23; v. 269; p. 598.
- Robinson, Felix, *et al.* (See Adece, Arthur L., assignor.)
- Robinson, Francis de L. (See Skidmore, William D., assignor.)
- Robinson, Frank, Chicago, Ill. Spark-plug. No. 1,303,965; May 20; v. 262; p. 343.
- Robinson, Frank A., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,292,070; Jan. 21; v. 258; p. 549.
- Robinson, Frank A., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,294,537; Feb. 18; v. 259; p. 431.
- Robinson, Frank A., Auburn, N. Y., assignor to S. Harmon, Chicago, Ill. Coating apparatus. No. 1,296,010; Mar. 4; v. 260; p. 43.
- Robinson, Frank T., Louisville, Ky. Sash-lock. No. 1,300,298; Apr. 15; v. 261; p. 432.
- Robinson, Frank W., assignor to The Nolde & Horst Co., Reading, Pa. Circular-knitting machine. No. 1,291,155; Jan. 14; v. 258; p. 298.
- Robinson, Frederic W. (See Quimby and Robinson.)
- Robinson, George A. (See Droege and Robinson.)
- Robinson, George E. (See Finseth, Albert C., assignor.)
- Robinson, George E., Portland, Ore. Engine-lathe attachment. No. 1,306,720; June 17; v. 263; p. 343.
- Robinson, George H. (See Hesse, Gustaf E., assignor.)
- Robinson, Giles, assignor to Wilcox Pressed Steel Company, Chicago, Ill. Shock-absorber arm. No. 1,314,904; Sept. 2; v. 266; p. 79.
- Robinson, Girard C., Detroit, Mich. Circuit-closer for automobile-signals. No. 1,307,927; June 24; v. 263; p. 596.
- Robinson, Girard C., Detroit, Mich. Adjustable-point lathe-center. No. 1,317,894; Oct. 7; v. 267; p. 44.
- Robinson, Herschel, Pochontas, Miss. Artificial minnow. No. 1,300,488; Apr. 15; v. 261; p. 473.
- Robinson, Jackson, Pittsburgh, Pa. Flag-supporting device. No. 1,294,170; Feb. 11; v. 259; p. 310.
- Robinson, James F., Minneapolis, Minn. Vehicle-tire. No. 1,316,978; Sept. 23; v. 266; p. 534.
- Robinson, James M. (See Bailey and Robinson.)
- Robinson, James T. (See McKinney, William D., assignor.)
- Robinson, Jay G., Chicago, Ill. Reciprocating mechanism. No. 1,325,657; Dec. 23; v. 269; p. 581.
- Robinson, John G., Manchester, England. Steam-superheater. No. 1,296,320; Mar. 4; v. 260; p. 114.
- Robinson, John G., Manchester, England. Steam-superheater. No. 1,299,033; Apr. 1; v. 261; p. 96.
- Robinson, John G., Manchester, assignor to Superheater Corporation, Limited, London, England. Steam-superheater. No. 1,301,606; Apr. 22; v. 261; p. 737.
- Robinson, John G., Manchester, assignor to The Superheater Corporation Limited, London, England. Steam-superheater for boilers. No. 1,304,910; May 27; v. 262; p. 560.
- Robinson, Joseph B., assignor of one-half to C. M. Weber, Rochester, N. Y. Instrument for ascertaining the point of recalcence of steel. No. 1,310,443; July 22; v. 264; p. 545.
- Robinson, Joseph G., Syracuse, N. Y. Tool. No. 1,324,410; Dec. 9; v. 269; p. 269.
- Robinson, Joseph V., Chevy Chase, Md. Automatic train-pipe connector. No. 1,300,652; Apr. 15; v. 261; p. 507.
- Robinson, Joseph V., Chevy Chase, Md. Resilient driving connection for motor-driven vehicles. No. 1,324,926; Dec. 16; v. 269; p. 428.
- Robinson, Lewis T., and C. V. Hardy, Schenectady, N. Y., assignors to General Electric Company. Inverse time-limit relay. No. 1,294,305; Feb. 11; v. 259; p. 341.
- Robinson, Lloyd N., Berkeley, Cal. Protective device for electric circuits. No. 1,296,558; Mar. 4; v. 260; p. 166.
- Robinson, Miner, Newton, Mass. Outlet-box. No. 1,323,408; Dec. 2; v. 269; p. 35.
- Robinson, Orville O. (See Benedict, Edward L., assignor.)
- Robinson, Richard E., Kansas City, Mo. Flash-light attachment for traveling-bags. No. 1,320,574; Nov. 4; v. 268; p. 41.
- Robinson, Richard H., West Somerville, Mass. Nut-lock. No. 1,320,095; Oct. 28; v. 267; p. 573.
- Robinson, Robert, McKees Rocks, Pa. Sanding device. No. 1,326,140; Dec. 23; v. 269; p. 670.
- Robinson, Robert F., Dallas, Tex. Stake support and brace. No. 1,312,359; Aug. 5; v. 265; p. 94.
- Robinson, Roland H. (See Chapman and Robinson.)
- Robinson, Roland H. (See Chapman, Penrose E., assignor.)
- Robinson, Thomas, Anaconda, Mont. Apparatus for distilling bituminous shales. No. 1,317,318; Sept. 30; v. 266; p. 634.
- Robinson, Thomas J., Chicago, Ill. Boiler-furnace. No. 1,306,628; June 10; v. 263; p. 294.
- Robinson, Thomas N., assignor of forty one-hundredths to G. Brennen, New York, N. Y. Safety-hook. No. 1,291,673; Jan. 14; v. 258; p. 419.
- Robinson, Ulysses S., assignor of one-third to M. Forcés, Lagrange, Ga. Resilient tire. No. 1,302,974; May 6; v. 262; p. 94.
- Robinson, Wallace W., Portland, Me. Tourniquet. No. 1,317,319; Sept. 30; v. 266; p. 634.
- Robinson, Wallace W., Portland, Me. Strap tightener and fastener. No. 1,324,927; Dec. 16; v. 269; p. 428.
- Robinson, William B., Easley, S. C. Pumping apparatus. No. 1,296,852; Mar. 11; v. 260; p. 259.
- Robinson, William J., Denver, Colo. Tire. No. 1,291,156; Jan. 14; v. 258; p. 298.
- Robinson, William P., Hammond, Ind. Molding-machine. No. 1,293,932; Feb. 11; v. 259; p. 253.
- Robison, Floyd W., assignor to Floyd W. Robison Company, Detroit, Mich. Treating coffee. No. 1,313,209; Aug. 12; v. 265; p. 291.
- Robison, George B., Mount Vernon, Ohio. Refrigerator. No. 1,299,618; Apr. 8; v. 261; p. 256.
- Robison, Samuel B., Lamar, Colo. Beet-harvester. No. 1,307,272; June 17; v. 263; p. 444.
- Robles, Manuel N., Mexico, Mexico. Stereoscope. No. 1,322,953; Nov. 25; v. 268; p. 654.
- Robson, Alfred B. (See McCandlish and Robson.)
- Robson, Charles P., Philadelphia, Pa. Baker's oven-lamp electric connection. No. 1,292,884; Jan. 23; v. 258; p. 764.
- Robson, James H., Columbus, Miss. Tire-tool. No. 1,301,746; Apr. 22; v. 261; p. 765.
- Robson, John, Moose Jaw, Saskatchewan, Canada. Sound-record. No. 1,325,111; Dec. 16; v. 269; p. 463.
- Robson, John J., St. Louis, Mo. Valve lubrication. No. 1,291,157; Jan. 14; v. 258; p. 298.
- Robson, Philip W., and F. J. Bretherton, Lincoln, England. Stabilizing and steering gear for vehicles using chain tracks. No. 1,303,822; May 13; v. 262; p. 279.
- Robt. H. Ingersoll & Bro. (See Eberhard, George F., assignor.)
- Robt. H. Ingersoll & Bro. (See Eberhard, Maloney, and Bold, assignors.)
- Robuck, Charles B., Los Angeles, Calif. Railway-crossing. No. 1,317,394; Sept. 30; v. 266; p. 649.
- Robur-Motoren-Gesellschaft m. b. H. (See Bucherer, Max, assignor.)
- Roby, Everett H. (See Lockhart and Roby.)
- Roch, Joseph, Detroit, Mich. Window-screen. No. 1,311,248; July 29; v. 264; p. 726.
- Roche, John F., and A. MacDonald, St. Paul, Minn. Log-sawing machine. No. 1,316,743; Sept. 23; v. 266; p. 491.
- Roche, John M., New York, N. Y. Puttee. No. 1,322,202; Nov. 18; v. 268; p. 461.
- Roche, Stephen J., Cincinnati, Ohio. Towel-holding device. No. 1,326,691; Dec. 30; v. 269; p. 811.
- Rochester Stamping Company. (See Swan, Alfred H. S., assignor.)
- Rochester Washing Machine Corporation. (See Couch and Wallace, assignors.)
- Rochlis, Samuel, Philadelphia, Pa. Ash-cart cover. No. 1,294,708; Feb. 18; v. 259; p. 470.
- Rochon, Eugene A., St. Lambert, Quebec, assignor of one-half to H. Vosberg, Montreal, Quebec, Canada. Cloth-marking machine. No. 1,315,159; Sept. 2; v. 266; p. 125.
- Rock, George L., Waukesha, Wis. Engine-starter. No. 1,315,577; Sept. 9; v. 266; p. 211.
- Rock, George L., Waukesha, Wis. Clutch. No. 1,315,578; Sept. 9; v. 266; p. 211.
- Rock Island Plow Company. (See Lechtenberg, Clemens, assignor.)
- Rock, John B., Portland, Ore. Collar-button. No. 1,291,158; Jan. 14; v. 258; p. 299.
- Rocke, John. (See Carson, Hugh J., assignor.) (Re-issue.)
- Rockefeller Institute for Medical Research. (See Jacobs, Brown, Heidelberger, and Pearce, assignors.)
- Rockefeller Institute for Medical Research. (See Northrop, John H., assignor.)
- Rockett, Francis. (See Kellogg and Rockett.)
- Rockford Metal Specialty Company. (See Abitz, Walter W., assignor.)
- Rockford Tool Company. (See Ekstrom, Gustaf H., assignor.)
- Rockford Tool Company. (See Sundstrand, Gustaf D. and O. J., assignors.)



## Alphabetical list of patentees—Continued.

- Rockwell, Byrd C., Camden, Ark. Wooden-structure joint. No. 1,308,372; July 1; v. 264; p. 67.
- Rockwell, Byrd C., Camden, Ark. Hinge. No. 1,315,417; Sept. 9; v. 266; p. 182.
- Rockwell, Byrd C., Camden, Ark. Hinge. No. 1,315,418; Sept. 9; v. 266; p. 182.
- Rockwell, Frederick C., West Hartford, Conn., and W. M. Davis, Gloucester, Mass. Producing theatrical effects. No. 1,295,374; Feb. 25; v. 259; p. 646.
- Rockwell, Herbert O. (See Sutherland, Alexander K., assignor.)
- Rockwell, Hugh M. and S. P., Bristol, Conn. Harness-tester. No. 1,294,171; Feb. 11; v. 259; p. 310.
- Rockwell, Lea W. (See Stone and Rockwell.)
- Rockwell, Lea W., Washington, D. C., assignor to the Government of the United States. Incendiary bullet. No. 1,300,195; Apr. 8; v. 261; p. 384.
- Rockwell, Stanley P. (See Rockwell, Hugh M. and S. P.)
- Rockwell, Walter F., Randolph, assignor, by mesne assignments, to H. C. Wheeler, Boston, Mass. Towel-holder. No. 1,319,796; Oct. 28; v. 267; p. 517.
- Rockwood, George I. (See Carlson, Hjalmar G., assignor.)
- Rockwood, George I., Worcester, Mass. Dry-pipe valve. (Reissue.) No. 14,746; Oct. 28; v. 267; p. 625.
- Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
- Rodd, Ernest H. (See Rosenbain and Rodd.)
- Rodd, George S., Houghton, Mich. Steering-wheel-indicating attachment for motor-vehicles. No. 1,316,860; Sept. 23; v. 266; p. 513.
- Rodeback, Charles H., Lago, Idaho. Necktie. No. 1,298,565; Mar. 25; v. 260; p. 693.
- Rodeen, Carl. (See Martin, Claude F., assignor.)
- Rodger Ballast Car Company. (See Morey, William E., assignor.)
- Rodger Ballast Car Company. (See Neikirk, John O., assignor.)
- Rodgers, Aleri A., Estlin, Saskatchewan, Canada. Disk-scraper. No. 1,306,629; June 10; v. 263; p. 294.
- Rodgers, Frank C., assignor to The Meier Dental Manufacturing Company, St. Louis, Mo. Tooth-straightening appliance. No. 1,292,885; Jan. 28; v. 258; p. 764.
- Rodgers, George, et al. (See Sweet, Arthur E., assignor.)
- Rodgers, Harry H., Alton, Ill. Baler. No. 1,293,201; Feb. 4; v. 259; p. 52.
- Rodgers, Herbert L., North Bay, Ontario, and R. H. Harvey, Montreal, Quebec, Canada, assignors to Safety Car Heating & Lighting Company. Belt-drive for car-lighting systems. No. 1,314,757; Sept. 2; v. 266; p. 53.
- Rodgers, Hickman P., et al. (See Buck, George D., assignor.)
- Rodgers, Robert B., assignor of one-half to H. M. Rebok, Santa Monica, Cal. Drinking-fountain. No. 1,290,785; Jan. 7; v. 258; p. 186.
- Rodgers, Simpson E., Macon, Ga. Burglar-alarm lock. No. 1,325,112; Dec. 16; v. 269; p. 463.
- Rodgers, Stephens D., et al. (See Buck, George D., assignor.)
- Rodhe, Olof, assignor to Aktiebolaget Ingenjorsfirma Fritz Egnell, Stockholm, Sweden. Gas-analyzing apparatus. No. 1,302,224; Apr. 29; v. 261; p. 886.
- Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Means for fixing the zero-line of gas-analyzing apparatus. No. 1,316,923; Sept. 23; v. 266; p. 523.
- Rodman Chemical Company. (See Rodman, Hugh, assignor.)
- Rodman, Hugh, Edgewood, assignor to Rodman Chemical Company, Verona, Pa. Carburizing. No. 1,292,652; Jan. 28; v. 258; p. 710.
- Rodman, Hugh, Edgewood, assignor to Rodman Chemical Company, Verona, Pa. Case-hardening material. No. 1,317,728; Oct. 7; v. 267; p. 13.
- Rodrigues, Manuel R., Brooklyn, N. Y. Electric receptacle. No. 1,314,218; Aug. 26; v. 265; p. 532.
- Rodriguez, Gavino, El Paso, Tex. Lamp attachment. No. 1,309,548; July 8; v. 264; p. 313.
- Rodriguez, Miguel B., Madrid Spain. Electric-current interrupter. No. 1,304,376; May 20; v. 262; p. 420.
- Rodriguez, Oscar, New York, N. Y. Globe-manipulator. No. 1,311,776; July 29; v. 264; p. 825.
- Rody, Franz A., Newark, N. J., assignor to Metallurgical Company of America, New York, N. Y. Recovering potash from leucite. No. 1,325,881; Dec. 23; v. 269; p. 623.
- Rody, Franz A., Newark, N. J., assignor to Metallurgical Company of America, New York, N. Y. Treatment of feldspar, leucite, and the like. No. 1,325,882; Dec. 23; v. 269; p. 623.
- Roe, Elliott V., Hamble, England. Light-framed structure such as aircraft-wings and the like. No. 1,301,747; Apr. 22; v. 261; p. 766.
- Roe, Elliott V., Hamble, England. Strut connection. No. 1,301,748; Apr. 22; v. 261; p. 766.
- Roe, Elliott V., Hamble, England. Fastener for covers. No. 1,301,749; Apr. 22; v. 261; p. 766.
- Roe, Elliott V., Hamble, Southampton, England. Aeroplane-fuselage. No. 1,323,103; Nov. 25; v. 268; p. 683.
- Roe, Ernest S., assignor to The Markham Air Rifle Co., Plymouth, Mich. Pop-gun. No. 1,293,933; Feb. 11; v. 259; p. 253.
- Roe, Jesse T., Kansas City, Mo. Wall-protector. No. 236,071; Jan. 21; v. 258; p. 549.
- Roe, Walter E., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Automatic lubricator. No. 1,295,926; Mar. 4; v. 260; p. 24.
- Roe, William C., Wheeling, W. Va. Buzzer apparatus for producing whistle-simulating sounds. No. 1,303,117; May 6; v. 262; p. 122.
- Roebber, Kurt, Halle-on-the-Saale, Germany. Transformer. No. 1,315,419; Sept. 9; v. 266; p. 182.
- Roebuck, Alvah C., Crystal Lake, Ill. Angle-adjusting mechanism. No. 1,293,553; Feb. 4; v. 259; p. 135.
- Roecker, William B., assignor to The Meyer Corporation, Morton, Ill. Animal-feeder. No. 1,316,852; Sept. 23; v. 266; p. 510.
- Roecker, William J., Wittenberg, Wis. Motor-sleigh. No. 1,299,862; Apr. 8; v. 261; p. 312.
- Roedel, Otto, Jersey City, N. J. Plating-hook. No. 1,308,508; July 1; v. 264; p. 91.
- Roeger, Frederick. (See Bach, Roeger, and Kuebler.)
- Roehl, Edward A., St. Paul, Minn. Making piston-rings. No. 1,322,056; Nov. 18; v. 268; p. 434.
- Roehl, Richard F., assignor, by mesne assignments, to Illinois Motor Company, Chicago, Ill. Internal-combustion engine. No. 1,321,128; Nov. 11; v. 268; p. 208.
- Roehl, Richard F., assignor, by mesne assignments, to Illinois Motor Company, Chicago, Ill. Crank-case and fly-wheel structure. No. 1,322,266; Nov. 18; v. 268; p. 474.
- Roehling, Herman. (See Zollinger and Roehling.)
- Roehrig, Christian A. (See Borders and Roehrig.)
- Roeling, H. W. (See Fitzsimmons, James, assignor.)
- Roelker, Hugo B. (See Klein, Mathias J., assignor.)
- Roemer, Herman, Chicago, Ill. Wringer. No. 1,308,868; July 8; v. 264; p. 186.
- Roer, William A., Wichita Falls, Tex. Sack-protector. No. 1,296,431; Mar. 4; v. 260; p. 138.
- Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Regulating-valve. No. 1,304,100; May 20; v. 262; p. 367.
- Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Indicating and recording instrument. No. 1,313,333; Aug. 19; v. 265; p. 330.
- Roesch, Georges, London, assignor of one-half to Clement Talbot Limited, Ladbroke Grove, London, England. Control device for change-speed and reversing mechanism. No. 1,302,593; May 6; v. 262; p. 21.
- Roesch, Georges, assignor of one-half to Clement Talbot Limited, London, England. Chassis-frame for automobiles. No. 1,318,694; Oct. 14; v. 267; p. 259.
- Roesch, Georges, assignor of one-half to Clement Talbot Limited, London, England. Retaining and locking device for removable box ends. No. 1,324,981; Dec. 16; v. 269; p. 438.
- Roesen, Oscar, assignor to R. Hoe and Co., New York, N. Y. Inking mechanism for plate-printing machines. No. 1,308,114; July 1; v. 264; p. 20.
- Roesler, Rudolf, Bucharest, Roumania. Method and means for ascertaining the condition of bore-holes and like narrow channels. No. 1,293,202; Feb. 4; v. 259; p. 52.
- Roessel, Louis. (See Collins and Roessel.)
- Roessler, George, Toledo, Ohio. Multiple reproducing-machine. No. 1,302,594; May 6; v. 262; p. 21.
- Roessler & Hasslacher, The. (See Lacy, Burritt S., assignor.)
- Roessler & Hasslacher Chemical Co., The. (See Sargent, Ralph N., assignor.)
- Rogall, Bernard, Brooklyn, N. Y. Necktie-package. No. 1,304,911; May 27; v. 262; p. 560.
- Rogatchoff, Theodore, Baltimore, Md. Cross-head for engines. No. 1,303,728; May 13; v. 262; p. 261.
- Rogatchoff, Theodore, Baltimore, Md. Shrinking bull-rings on pistons. No. 1,326,692; Dec. 30; v. 269; p. 811.
- Roger, Alphee, assignor to U. Maheu, Montreal, Quebec, Canada. Bottle-receiving receptacle. No. 1,322,057; Nov. 18; v. 268; p. 434.
- Rogers, Albert N., Middleboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-beating machine. No. 1,306,630; June 10; v. 263; p. 294.
- Rogers, Albert N., Irwin, and W. F. O'Neill, Wilkinsburg, assignors to Penn Electrical & Manufacturing Company, Irwin, Pa. Dead-face switchboard. No. 1,297,912; Mar. 18; v. 260; p. 528.
- Rogers, Almira V., administratrix. (See Rogers, Charles W., assignor.)
- Rogers, Charles E., Detroit, Mich. Apparatus for and method of desiccating fluids. No. 1,297,496; Mar. 18; v. 260; p. 439.
- Rogers, Charles H. (See McElroy and Risk, assignors.)
- Rogers, Charles W., deceased; A. V. Rogers, administratrix, Marion, Ind. Beet-harvesting machine. No. 1,307,640; June 24; v. 263; p. 544.
- Rogers, Dwight T., Machias, N. Y. Milking-stool. No. 1,295,927; Mar. 4; v. 260; p. 24.
- Rogers, Edward, Rosedale, N. Y. Phonograph. No. 1,316,187; Sept. 16; v. 266; p. 337.
- Rogers, Edwin M., New York, N. Y. Air-lift apparatus. No. 1,319,797; Oct. 28; v. 267; p. 517.



- Rogers Electric Laboratories Company, The. (See Doremont, Frank C., assignor.)
- Rogers, Elliott. (See Jacquemin, Louis J., assignor.)
- Rogers, Everett T. and F. M., Bay Shore, N. Y. Floor scrubbing and mopping machine. No. 1,310,296; July 15; v. 264; p. 486.
- Rogers, Francis J., Parkersburg, W. Va. Combined accident and identification certificate or policy. No. 1,318,695; Oct. 14; v. 267; p. 259.
- Rogers, Francis M., assignor to Standard Oil Company, Whiting, Ind. Treatment of emulsion-oils. No. 1,299,385; Apr. 1; v. 261; p. 174.
- Rogers, Frank M. (See Rogers, Everett T. and F. M.)
- Rogers, Guy A., Portland, Oreg. Combined brake and jack for vehicles. No. 1,311,998; Aug. 5; v. 265; p. 27.
- Rogers, Harold A., Cardiff, Wales. Cinematograph and like apparatus. No. 1,294,172; Feb. 11; v. 259; p. 310.
- Rogers, Harry G., Belmont, N. Y. Combined snow-shovel and scraper. No. 1,319,306; Oct. 21; v. 267; p. 401.
- Rogers, Harry R., assignor to Chicago Car Seal Company, Chicago, Ill. Seal. No. 1,298,402; Mar. 25; v. 260; p. 657.
- Rogers-Higgins Co., The. (See Higgins, James F., assignor.)
- Rogers, Homer, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of diphenylamin. No. 1,314,538; Sept. 2; v. 266; p. 12.
- Rogers, Hugh, Sr., assignor to Hauser Printing Company, Incorporated, New Orleans, La. Car-record sheet. (Re-issue.) No. 14,778; Dec. 23; v. 269; p. 675.
- Rogers, James, Dixon, Ill., assignor to Borden's Condensed Milk Company, New York, N. Y. Apparatus for detecting leaks in containers. No. 1,296,699; Mar. 11; v. 260; p. 235.
- Rogers, James H., Hyattsville, Md. Wireless signaling system. No. 1,303,729; May 13; v. 262; p. 261.
- Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,303,730; May 13; v. 262; p. 261.
- Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,315,862; Sept. 9; v. 266; p. 262.
- Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,316,188; Sept. 16; v. 266; p. 337.
- Rogers, James H., and H. H. Lyon, Hyattsville, Md. Wireless signaling system. No. 1,322,622; Nov. 25; v. 268; p. 593.
- Rogers, Jesse P., Bluffton, Ind. Pneumatic action for player-pianos. No. 1,325,912; Dec. 23; v. 269; p. 628.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,304,708; May 27; v. 262; p. 522.
- Rogers, Joseph J., and P. J. Cosgrove, assignors to New York Stamping Company, Brooklyn, N. Y. Currycomb. No. 1,307,702; June 24; v. 263; p. 555.
- Rogers, Joseph M., Louisville, Ky. Projectile. No. 1,307,419; June 24; v. 263; p. 504.
- Rogers, Lee H., Kansas City, Mo. Rotary pump and blower. No. 1,317,989; Oct. 7; v. 267; p. 63.
- Rogers, Levi F., Pittsburgh, Pa. Draft-gear. No. 1,302,436; Apr. 29; v. 261; p. 929.
- Rogers, Ralph F., Chicago, Ill. Motorcycle side car. No. 1,318,924; Oct. 14; v. 267; p. 302.
- Rogers, Richard H., London, England. Structural unit in the form of beams, girders, and the like. No. 1,324,982; Dec. 16; v. 269; p. 438.
- Rogers, Richard H., and P. O. Dorer, London, assignors to S. Smith & Sons (Motor Accessories) Limited, London, England. Controlling device for use on motor-cars and elsewhere. No. 1,317,178; Sept. 30; v. 266; p. 608.
- Rogers, Robert H., Schenectady, N. Y., assignor to General Electric Company. Recording device. No. 1,306,631; June 10; v. 263; p. 294.
- Rogers, Rollin W., et al. (See Baker, James S., assignor.)
- Rogers, Silas L., Hubbard Lake, Mich. Sled-iron. No. 1,291,159; Jan. 14; v. 258; p. 299.
- Rogers, Solomon D., assignor to Commercial Cars Construction Co., San Francisco, Cal. Power-transmitting mechanism for railway and other cars. No. 1,293,934; Feb. 11; v. 259; p. 253.
- Rogers, Thomas C. (See Bell and Rogers.)
- Rogers, Walter F., Chicago, Ill. Gas-stove. No. 1,311,181; July 29; v. 264; p. 714.
- Rogers, William W., and F. H. Decker, Frenchtown, N. J. Railway-signal. No. 1,305,239; May 27; v. 262; p. 622.
- Rogers, Winfield S., Bantam, Conn. Indicating device. No. 1,293,935; Feb. 11; v. 259; p. 254.
- Rogers, Yubie W., St. Louis, Mo. Combination-chair. No. 1,310,250; July 15; v. 264; p. 478.
- Rogerson, Elton G., Calgary, Alberta, Canada. Multiple-fuse plug. No. 1,316,331; Sept. 16; v. 266; p. 364.
- Rogensack, G. E., et al. (See Glidden, Harry D., assignor.)
- Rohan, James J., assignor of one-half to T. W. Cummings, St. Louis, Mo. Car-heater. No. 1,308,194; July 1; v. 264; p. 34.
- Rohde, Otto C. (See Gollan and Rohde.)
- Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-plug. No. 1,313,419; Aug. 19; v. 265; p. 346.
- Rohland, Curt J., assignor to National Ring Traveler Co., Providence, R. I. Fastening. No. 1,306,279; June 10; v. 263; p. 230.
- Rohland, Curt J., Worcester, Mass., assignor, by mesne assignments, to Klaxon Company, Newark, N. J. Sound-producer. No. 1,321,336; Nov. 11; v. 268; p. 248.
- Rohlin, Karl W., Philadelphia, Pa., assignor to Warren Webster & Company, Camden, N. J. Device for registering, recording, and indicating the flow of liquids. No. 1,321,671; Nov. 11; v. 268; p. 311.
- Rohling, Frank J., Dallas, Tex. Explosive projectile. No. 1,320,495; Nov. 4; v. 268; p. 26.
- Rohm, Gustave A., Tarentum, Pa. Indicator. No. 1,310,444; July 22; v. 264; p. 545.
- Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Car-lighting system. No. 1,306,079; June 10; v. 263; p. 190.
- Rohmer, Gabriel E., Elmhurst, N. Y., assignor, by mesne assignments, to Cinch Expansion Bolt & Engineering Company, Cable and wire clamp. No. 1,308,869; July 8; v. 264; p. 186.
- Rohn, William M., Detroit, Mich., assignor to Salisbury Ball Bearing Corporation. Ball-bearing. No. 1,325,113; Dec. 16; v. 269; p. 463.
- Rohne, Even J., Minneapolis, Minn. Electric switch. No. 1,304,377; May 20; v. 262; p. 420.
- Rohne, Even J., Minneapolis, Minn. Electric soldering-iron. No. 1,308,994; July 8; v. 264; p. 209.
- Rohne, Even J., Minneapolis, Minn. Thermostat. No. 1,323,203; Nov. 25; v. 268; p. 702.
- Rohr, Joseph, Brooklyn, and F. Kurzrock, Canarsie, N. Y. Burner. No. 1,303,597; May 13; v. 262; p. 237.
- Rohr, William J., Massapequa, N. Y. Grease-cup. No. 1,320,414; Nov. 4; v. 268; p. 11.
- Rohrbacher, Edward J., Seattle, Wash. Hose-clamp. No. 1,294,951; Feb. 18; v. 259; p. 527.
- Rohrbeck, Herman, Detroit, Mich. Refrigerator-box. No. 1,315,334; Sept. 9; v. 266; p. 167.
- Rohrig, John, Bennett, Iowa. Tonsil-enucleator. No. 1,323,104; Nov. 25; v. 268; p. 683.
- Rohrmann, Karl F., St. Gallen, Switzerland. Artificial hand. No. 1,305,169; May 27; v. 262; p. 608.
- Rohrs, Wilhelm F., Blackwell, Okla. Direction-signal. No. 1,320,925; Nov. 4; v. 268; p. 107.
- Rohwer, Carl F., Hot Springs, Ark. Suspensory. No. 1,294,709; Feb. 18; v. 259; p. 470.
- Roirant, Emile, assignor to A. Wilzin, St. Ouen, France. Glass delivering and melting apparatus. No. 1,307,150; June 17; v. 263; p. 422.
- Roirant, Emile, assignor to A. Wilzin, St. Ouen, France. Method of and apparatus for gathering glass by suction. No. 1,311,249; July 29; v. 264; p. 727.
- Rojas, Florical A., New York, N. Y. Rheostat. No. 1,315,579; Sept. 9; v. 266; p. 211.
- Rokej, John L. (See Baker, Joseph C., assignor.)
- Rokosz, Walter, Calumet, Mich. Resilient wheel. No. 1,311,999; Aug. 5; v. 265; p. 27.
- Roland, Theodore, Menomone, Wis. Inclinator and compass combined. No. 1,294,710; Feb. 18; v. 259; p. 470.
- Rold, Edward C., Oakville, Iowa. Self-lifting jack. No. 1,315,335; Sept. 9; v. 266; p. 167.
- Rolfe, Charles A., Redlands, Calif. Golf-club. No. 1,313,504; Aug. 19; v. 265; p. 362.
- Rolkerr, Retlow, Oakland, Cal. Compressor. No. 1,295,068; Feb. 18; v. 259; p. 553.
- Roll, Edward E., Cleveland, Ohio. Retarder. No. 1,308,644; July 1; v. 264; p. 116.
- Roll, William, Sandusky, Ohio. Pencil. No. 1,291,671; Jan. 14; v. 258; p. 419.
- Roll, William, Sandusky, Ohio. Pencil. No. 1,296,011; Mar. 4; v. 260; p. 44.
- Rolland, Modesto C., New York, N. Y. Sliding joint of fluid-pressure apparatus. No. 1,325,996; Dec. 23; v. 269; p. 644.
- Rollason, Ernest B., Sydney, New South Wales, Australia. Ornamental hair-comb. No. 1,305,309; June 3; v. 263; p. 15.
- Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Electrical measuring instrument. No. 1,312,753; Aug. 12; v. 265; p. 201.
- Roller, Leslie G., Humeston, Iowa. Rim. No. 1,317,105; Sept. 23; v. 266; p. 558.
- Roller-Smith Company. (See Roller, Frank W., assignor.)
- Roller-Smith Company. (See Spurrier, John R., assignor.)
- Rollins, Grant W., assignor to The Willys-Overland Company, Toledo, Ohio. Tool for removing shaft-couplings. No. 1,310,806; July 22; v. 264; p. 612.
- Rollins, Mary S. (See Houk, Richard, assignor.)
- Rollman, Bruce B., Pittsburgh, Pa., assignor to New Idea Spreader Company, Coldwater, Ohio. Gearing for manure-spreaders. No. 1,313,116; Aug. 12; v. 265; p. 273.
- Rollman, Michael A., Mount Joy, Pa. Cherry-stoner. No. 1,318,180; Oct. 7; v. 267; p. 99.
- Rollman, Michael A., and C. J. Schiemer, Mount Joy, Pa. Fruit-press. No. 1,317,666; Sept. 30; v. 266; p. 701.
- Rolls Royce, Limited. (See Royce, Frederick H., assignor.)
- Rolls-Royce Limited. (See Royce and Hives, assignors.)
- Rolph, Thomas W., and W. Lumley, Cleveland, Ohio, assignors to General Electric Company. Lighting attachment. No. 1,294,306; Feb. 11; v. 259; p. 341.



## Alphabetical list of patentees—Continued.

- Rolph, Thomas W., and W. F. Minor, Cleveland, Ohio, assignors to General Electric Company. Lighting-fixt. No. 1,304,378; May 20; v. 262; p. 420.
- Rolston, John, assignor of one-half to F. G. Terpening, Minneapolis, Minn. Nail-pulling device. No. 1,292,886; Jan. 28; v. 258; p. 763.
- Rom, Robert. (See Dornbrook, Frederick L., assignor.)
- Romain, Augustus D., Brooklyn, N. Y. Explosive device. No. 1,303,499; May 13; v. 262; p. 219.
- Roman, Charles A., Oklahoma, Okla. Safety-shield for pins. No. 1,302,713; May 6; v. 262; p. 44.
- Romanite Company of America. (See Sharpneck, Ellet L., assignor.)
- Romano, Francescantonio, Fitchburg, Mass. Composition for floors, &c. No. 1,317,525; Sept. 30; v. 266; p. 674.
- Romano, Joseph, Philadelphia, Pa. Attachment for blow-torches. No. 1,315,420; Sept. 9; v. 266; p. 183.
- Romanoff, Hippolyte, New York, N. Y. Wire-cutter. No. 1,298,403; Mar. 25; v. 260; p. 657.
- Romanoff, Hippolyte, New York, N. Y. Anti-gas respirator. No. 1,298,404; Mar. 25; v. 260; p. 657.
- Romanoff, Hippolyte W., New York, N. Y. Vehicle. No. 1,306,080; June 10; v. 263; p. 190.
- Romanoff, Hippolyte, New York, N. Y. Valve. No. 1,306,391; June 10; v. 263; p. 250.
- Romaro Machine and Tool Company. (See Rosander, Robert A., assignor.)
- Rombach, Fred, Tonawanda, assignor of one-fourth to R. P. Reagan and one-fourth to A. M. Everhart, North Tonawanda, N. Y. Internal-combustion engine. No. 1,308,373; July 1; v. 264; p. 67.
- Rome Iron Mills. (See Jenkins, Weston, assignor.)
- Rome Wire Company. (See Troxel, Charles E., assignor.)
- Romeo, Dominick A., assignor to S. J. Schwartz, Jr., New Orleans, La. Trousers-carton. No. 1,320,575; Nov. 4; v. 268; p. 41.
- Romeo, Dominick A., assignor to S. J. Schwartz, Jr., New Orleans, La. Combined coat and trousers, carton. No. 1,320,576; Nov. 4; v. 268; p. 41.
- Romer, Gleason W., Lake Helen, Fla. Developing appliance for photographic prints. No. 1,299,229; Apr. 1; v. 261; p. 139.
- Romer, Gleason W., Lake Helen, Fla. Photographic-print washer. No. 1,312,050; Aug. 5; v. 265; p. 37.
- Romero, Alfredo L., Oakland, Cal. Weed-puller. No. 1,292,376; Jan. 21; v. 258; p. 621.
- Romig, John S., Pittsburgh, Pa. Electric-lighting fixture. No. 1,319,247; Oct. 21; v. 267; p. 390.
- Rommelacere, Albert, South Vancouver, British Columbia, Canada. Bessemer converter. No. 1,299,034; Apr. 1; v. 261; p. 96.
- Ronan, John T., Ludwig, Nev. Magnetic transmission-gearing. No. 1,316,110; Sept. 16; v. 266; p. 322.
- Ronayne, John J., New York, N. Y. Electrical illuminating device. No. 1,321,337; Nov. 11; v. 268; p. 249.
- Rondeau, David. (See Pelletier and Rondeau.)
- Ronning, John A. (See Vale, Ronning, and Drake.)
- Ronstrom, Thomas A., Chicago, Ill. Heating appliance. No. 1,307,332; June 17; v. 263; p. 455.
- Rood, Stanley H. (See Lorenz and Rood.)
- Rood, Stanley H., Hartford, Conn. Hermetic closure. No. 1,300,224; Apr. 8; v. 261; p. 391.
- Rood, Stanley H., Hartford, Conn. Plastic composition. No. 1,322,823; Nov. 25; v. 268; p. 630.
- Rood, William B., et al. (See Von Brethorst and Priestley, assignors.)
- Rood, William B., assignor to Otis Company, Ware, Mass. Undergarment. No. 1,298,260; Mar. 25; v. 260; p. 628.
- Roodman, Nathan, New York, N. Y. Bracelet. No. 1,309,657; July 15; v. 264; p. 371.
- Roof, Robert M., Anderson, Ind., assignor to Laurel Motors Corporation, Phoenix, Ariz. Control means for intakes and exhausts of internal-combustion engines. No. 1,301,007; Apr. 15; v. 261; p. 583.
- Rook, William H., Jr., assignor to G. R. Hill, Akron, Ohio. Structural block. No. 1,291,160; Jan. 14; v. 258; p. 299.
- Rook, William H., Jr., assignor to G. R. Hill, Akron, Ohio. Structural block. No. 1,296,559; Mar. 4; v. 260; p. 166.
- Rooke Automatic Register Company. (See Rooke, George F., assignor.)
- Rooke, George F., assignor to Rooke Automatic Register Company, Providence, R. I. Fare-register. No. 1,294,307; Feb. 11; v. 259; p. 341.
- Rooke, George F., Providence, R. I., assignor to Rooke Automatic Register Company, Augusta, Me. Fare-register. No. 1,294,308; Feb. 11; v. 259; p. 342.
- Rooker, Johannes G. F., Vrijenban, near Delft, Netherlands. Marking-machine. No. 1,313,016; Aug. 12; v. 265; p. 253.
- Rookledge, George G., San Gabriel, Calif. Sticker. No. 1,307,792; June 24; v. 263; p. 572.
- Rookledge, Percival L. (See Gilmer and Rookledge.)
- Rooney, Leo J. F., Tulsa, Okla. Expansion-pipe sleeve. No. 1,292,072; Jan. 21; v. 258; p. 549.
- Roos, Alphonse, Chicago, Ill. Wave-motor. No. 1,306,974; June 17; v. 263; p. 390.
- Roos, Delmar G., Bridgeport, Conn., assignor to The Locomobile Company of America, New York, N. Y. Jack. No. 1,324,851; Dec. 16; v. 269; p. 414.
- Roos, Delmar G., assignor to The Locomobile Company of America, Bridgeport, Conn. Bonnet-sill and fender construction. No. 1,326,879; Dec. 30; v. 269; p. 847.
- Roos, Gunnar, Stockholm, Sweden. Governing device for internal-combustion engines. No. 1,299,230; Apr. 1; v. 261; p. 139.
- Roos, Oscar C., Allston, Mass. Radiotelegraph transmitting system. No. 1,309,778; July 15; v. 264; p. 393.
- Root, Charles F., Ravenna, assignor of one-fourth to B. O. Conn, Mansfield, Ohio. Safety device. No. 1,298,566; Mar. 25; v. 260; p. 693.
- Root, Charles F., Ravenna, assignor of one-fourth to B. O. Conn, Mansfield, Ohio. Safety device. No. 1,298,567; Mar. 25; v. 260; p. 693.
- Root, Charles F., Ravenna, assignor of one-fourth to B. O. Conn, Mansfield, Ohio. Safety device. No. 1,298,568; Mar. 25; v. 260; p. 693.
- Root, Howard C., assignor to The Prest-O-Lite Company, Inc., Indianapolis, Ind. Controlling-valve for vacuum-operated power means. No. 1,321,150; Nov. 11; v. 268; p. 213.
- Root, Huber H., assignor to The A. I. Root Company, Medina, Ohio. Foundation-fastener. No. 1,321,149; Nov. 11; v. 268; p. 212.
- Root, Ralph C., Indianapolis, Ind. Ventilating apparatus. No. 1,301,975; Apr. 29; v. 261; p. 840.
- Root, Ralph R., Cleveland, Ohio. Electric signaling device. No. 1,314,703; Sept. 2; v. 266; p. 44.
- Root, Ralph R., Cleveland, Ohio. Massaging instrument. No. 1,325,332; Dec. 16; v. 269; p. 504.
- Root, Ralph R., assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Lamp-socket. No. 1,312,360; Aug. 5; v. 265; p. 94.
- Roots, James D., West Kensington, London, England. Carburetor. No. 1,296,853; Mar. 11; v. 260; p. 270.
- Roper, Charles F., deceased, Hopedale; B. R. Conant and W. F. Roper, executors, assignors to Hopedale Manufacturing Company, Milford, Mass. Air-supplying means for motors. No. 1,318,596; Oct. 14; v. 267; p. 240.
- Roper, Walter F., et al., executors. (See Roper and Conant.)
- Roper, Walter F., Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Check-valve. No. 1,300,653; Apr. 15; v. 261; p. 507.
- Ropicky, Wasil, assignor of one-half to J. Ptaszek, Detroit, Mich. Transformable wheel. No. 1,306,280; June 10; v. 263; p. 230.
- Rorabek, Floyd F. (See Baker and Rorabek.)
- Rordam, Ringvall P. (See Longaker, Trager, and Rordam.)
- Rorison, John L. C., University, Va. Automatic talking-machine. No. 1,321,852; Nov. 18; v. 268; p. 396.
- Rosander, Robert A., Brooklyn, N. Y. Furnace. No. 1,320,276; Oct. 28; v. 267; p. 606.
- Rosander, Robert A., Brooklyn, N. Y., assignor to Romaro Machine and Tool Company, Wrench. No. 1,299,510; Apr. 8; v. 261; p. 231.
- Rosback, Frederick P., Benton Harbor, Mich. Transmission mechanism. No. 1,297,736; Mar. 18; v. 260; p. 490.
- Rosback, Henry A., Chicago, Ill. Cashier's ticket. No. 1,308,115; July 1; v. 264; p. 20.
- Roscoe, Edward, Hamilton, New Zealand. Station-indicator. No. 1,315,336; Sept. 9; v. 266; p. 168.
- Rose, Baron, Halesowen, England. Manufacture of gun-barrels. No. 1,316,509; Sept. 16; v. 266; p. 398.
- Rose, Charles A., Perth Amboy, N. J., and G. Monrath, Chuquicamata, Chile, assignors to Chile Exploration Company, New York, N. Y. Corrosion-resisting conduit-pipe. No. 1,310,715; July 22; v. 264; p. 595.
- Rose, Charles M., New York, N. Y., and A. L. Hamlin, East Orange, N. J. Signal device. No. 1,313,017; Aug. 12; v. 265; p. 253.
- Rose, Christian H., and A. Heinz, Milwaukee, Wis. Automobile-jack. No. 1,307,600; June 24; v. 263; p. 537.
- Rose, Daniel A., Hills, Iowa. Automobile-extractor. No. 1,312,579; Aug. 12; v. 265; p. 168.
- Rose & Frank Company. (See Möller, Jacob A. L., assignor.)
- Rose, Frank G. (See Lee and Rose.)
- Rose, Frederick C., assignor to Garnet Carter Co. Inc., Chattanooga, Tenn. Trade-stimulating means. No. 1,312,922; Aug. 12; v. 265; p. 234.
- Rose, George D. (See Grotjohann, Harry V., assignor.)
- Rose, George O., and T. Kurtz, Monessen, assignors to Pittsburgh Steel Company, Pittsburgh, Pa. Safety device for wire-drawing apparatus. No. 1,296,221; Mar. 4; v. 260; p. 93.
- Rose, Harm, Rosemont, Nebr. Device to pull automobiles out of mud. No. 1,306,721; June 17; v. 263; p. 344.
- Rose, Jacob B., assignor to The Marvel Accessories Manufacturing Company, Cleveland, Ohio. Jack. No. 1,317,320; Sept. 30; v. 266; p. 634.
- Rose, James A., St. Louis, Mo. Ball-jointed piston. No. 1,294,538; Feb. 18; v. 259; p. 431.
- Rose, James A., St. Louis, Mo. Non-grounded spark-plug. No. 1,299,035; Apr. 1; v. 261; p. 96.
- Rose, James R. (See Harris, John, assignor.)
- Rose, James R., Edgeworth, Pa. Apparatus for producing combustible fuel. No. 1,312,875; Aug. 12; v. 265; p. 225.



- Rose, John. (See Kane and Rose.)
- Rose, John H., Holyoke, Mass. Elevating-truck. No. 1,325,863; Dec. 23; v. 269; p. 620.
- Rose, Joseph P., Cherokee, Iowa. Hand-pump. No. 1,293,936; Feb. 11; v. 259; p. 254.
- Rose, Joseph S., Port Chester, N. Y. Diamond-tool. No. 1,299,619; Apr. 8; v. 261; p. 256.
- Rose, Josiah T. (See Wilson, Frank E., assignor.)
- Rose-Label Machine Company. (See Rosenthal and Petrocchi, assignors.)
- Rose, Leon R., New Haven, Conn. Powder-puff. No. 1,323,912; Dec. 2; v. 269; p. 130.
- Rose Patch & Label Co., The. (See Rosenthal, Arthur, assignor.)
- Rose, Robert. (See Mannell and Rose.)
- Rose, Robert W., Marblehead, Mass. Straight-arm hoist for dumping-vehicles. No. 1,294,173; Feb. 11; v. 259; p. 310.
- Rose, Robert W., Marblehead, Mass. Motor treadmill apparatus. No. 1,294,539; Feb. 18; v. 259; p. 431.
- Rose, Thomas, Milwaukee, Wis. Machine for forming sheets of plastic material. No. 1,303,966; May 20; v. 262; p. 843.
- Rose, William H., Jersey City, N. J. Dry-spraying machine. No. 1,300,654; Apr. 15; v. 261; p. 507.
- Rose, William H., Jersey City, N. J. Liquid-soap dispenser. No. 1,308,258; July 1; v. 264; p. 46.
- Rose, William H., Jersey City, N. J. Soap-dispenser. No. 1,326,880; Dec. 30; v. 269; p. 847.
- Roseberry, Robert E., Detroit, Mich. Portable machine for re boring engine-cylinders. No. 1,315,580; Sept. 9; v. 266; p. 212.
- Roseberry, Robert E., assignor to The Universal Tool Company Inc., Detroit, Mich. Feed mechanism for engine-cylinder-re boring machines. No. 1,321,393; Nov. 11; v. 268; p. 260.
- Roseboom, Jesse G., Shelbyville, Ind. Signal for motor-vehicles and the like. No. 1,325,171; Dec. 16; v. 269; p. 473.
- Rosebush, Waldo E., Appleton, Wis. Firearm. No. 1,291,688; Jan. 14; v. 258; p. 422.
- Rosebush, Waldo E., Appleton, Wis. Firearm. No. 1,311,715; July 29; v. 264; p. 814.
- Rosebush, Waldo E., Appleton, Wis. Barrel-fastening for firearms. No. 1,316,510; Sept. 16; v. 266; p. 399.
- Rosecrans, Charles D., Honolulu, Hawaii. Valve-grinder. No. 1,299,231; Apr. 1; v. 261; p. 139.
- Rosecrans, Lewis N., American Falls, Idaho. Wrench. No. 1,322,623; Nov. 25; v. 268; p. 593.
- Roseman, Samuel G., Auckland, New Zealand. Brush-making machinery. No. 1,321,394; Nov. 11; v. 268; p. 260.
- Rosenbaum, Lambertus, Paterson, N. J. Mechanical toy. No. 1,324,068; Dec. 9; v. 269; p. 203.
- Rosenbaum, Rudolph R., Chicago, Ill. Process and apparatus for treating hydrocarbons. No. 1,324,983; Dec. 16; v. 269; p. 438.
- Rosenberg, Abraham, and A. H. Rosenthal, Brooklyn, N. Y. Puncture-proof tread block for pneumatic tires. No. 1,292,519; Jan. 28; v. 258; p. 677.
- Rosenberg, Benjamin, New York, N. Y. Collapsible container. No. 1,291,161; Jan. 14; v. 258; p. 299.
- Rosenberg, Benjamin, Brooklyn, N. Y. Display-receptacle. No. 1,306,632; June 10; v. 263; p. 294.
- Rosenberg, Benjamin, Brooklyn, N. Y. Spark-plug electrode. No. 1,313,334; Aug. 19; v. 265; p. 330.
- Rosenberg, Emanuel, Bowden, England, assignor to Westinghouse Electric and Manufacturing Company. Apparatus for starting synchronous machines. No. 1,318,696; Oct. 14; v. 267; p. 259.
- Rosenberg, Heyman, New York, N. Y. Fastening sheets together. No. 1,299,232; Apr. 1; v. 261; p. 140.
- Rosenberg, Heyman, New York, N. Y. Lock and indicator for dampers. No. 1,324,620; Dec. 9; v. 269; p. 310.
- Rosenberg, Heyman, New York, N. Y. Hand-punch. No. 1,324,621; Dec. 9; v. 269; p. 310.
- Rosenberg, Heyman, New York, N. Y. Damper apparatus. No. 1,326,096; Dec. 23; v. 269; p. 663.
- Rosenberg, Heyman, assignor to S. N. Brimberg, New York, N. Y. Hand-punch. No. 1,292,073; Jan. 21; v. 258; p. 549.
- Rosenberg, Isadore, Port Chester, N. Y. Folding valve-lifter. No. 1,302,975; May 6; v. 262; p. 94.
- Rosenberg, Louis. (See Hurwitz, Abraham, assignor.)
- Rosenberg, Morris, Brooklyn, N. Y. Brush. No. 1,303,500; May 13; v. 262; p. 219.
- Rosenberg, Sidney C., New Haven, Conn. Tree-felling device. No. 1,322,468; Nov. 18; v. 268; p. 512.
- Rosenblatt, Joseph, Providence, R. I. Eyeglass-mounting. No. 1,322,624; Nov. 25; v. 268; p. 593.
- Rosenbloom, Benjamin L., Wheeling, W. Va. Headlight-dimmer. No. 1,292,074; Jan. 21; v. 258; p. 549.
- Rosencranz, Emil C., assignor of one-third to W. H. Rumpf, Evansville, Ind. Nut-lock washer. No. 1,311,011; July 22; v. 264; p. 649.
- Rosendahl, Nils M., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Machine for making asphaltic or similar mixtures. No. 1,293,937; Feb. 11; v. 259; p. 254.
- Rosendahl, Nils M., Kennett Square, Pa. Tire-holder. No. 1,315,240; Sept. 9; v. 266; p. 150.
- Rosenfeld, Adolph, Pittsburgh, assignor to E. Mueller, Reserve township, Pa. Playing-cards. No. 1,322,954; Nov. 25; v. 268; p. 655.
- Rosenfeld, Max C., Boston, Mass. Aerial torpedo. No. 1,324,928; Dec. 16; v. 269; p. 428.
- Rosenfeld, Ralph H. (See Roberts, Fred T., assignor.)
- Rosenfield, Fred, et al. (See Sloan, Alonzo H., assignor.)
- Rosenfield, Isaac, Anaconda, Mont. Resilient wheel. No. 1,317,729; Oct. 7; v. 267; p. 13.
- Rosenfield, Max. (See Chodak, Frank, assignor.)
- Rosenfield, William W., New York, N. Y. Suction-cleaner. No. 1,296,121; Mar. 4; v. 260; p. 70.
- Rosenfield, William W., New York, N. Y. Suction-cleaner. No. 1,300,196; Apr. 8; v. 261; p. 384.
- Rosengren, Anders A., Malmö, Sweden. Machine for capsuling or sealing bottles or other vessels. No. 1,295,928; Mar. 4; v. 260; p. 24.
- Rosengren, Anders A., Malmö, Sweden. Hermetical sealing device for boxes, tins, or cans for preserves or for other vessels. No. 1,296,560; Mar. 4; v. 260; p. 166.
- Rosenhain, Walter, and S. L. Archbutt, Teddington, England. Construction of aeroplane-wings or other like structures. No. 1,322,348; Nov. 18; v. 268; p. 489.
- Rosenhain, Walter, and E. H. Rodd, Teddington, assignors to themselves, the Imperial Trust for the Encouragement of Scientific and Industrial Research, Westminster, London, and R. T. Glazebrook, Teddington, England. Manufacture of a compound of zirconium and its application in the production of pure zirconia. No. 1,307,881; June 24; v. 263; p. 588.
- Rosenhain, Walter, and E. H. Rodd, Teddington, assignors to themselves, the Imperial Trust for the Encouragement of Scientific and Industrial Research, Westminster, and R. T. Glazebrook, Teddington, England. Basic oxychloride of zirconium and making same. No. 1,307,882; June 24; v. 263; p. 588.
- Rosenhain, Walter, and E. H. Rodd, Teddington, assignors to themselves, the Imperial Trust for the Encouragement of Scientific and Industrial Research, Westminster, and R. T. Glazebrook, Teddington, England. Basic zirconium sulfate. No. 1,307,883; June 24; v. 263; p. 588.
- Rosenholm, Johannes U., New York, N. Y. Combination-tool. No. 1,324,411; Dec. 9; v. 269; p. 269.
- Rosensohn, Hyman, et al. (See De Cesare, Matteo, assignor.)
- Rosenstengel, Albert, and E. E. Poage, Hannibal, Mo. Rake. No. 1,326,097; Dec. 23; v. 269; p. 663.
- Rosenthal, Ambrose H. (See Rosenberg and Rosenthal.)
- Rosenthal, Arthur, assignor to The Rose Patch & Label Co., Grand Rapids, Mich. Label. No. 1,321,477; Nov. 11; v. 268; p. 275.
- Rosenthal, Arthur, and M. Petrocchi, assignors to Rose-Label Machine Company, Grand Rapids, Mich. Special-work sewing-machine. No. 1,293,554; Feb. 4; v. 259; p. 135.
- Rosenthal, August, West Allis, Wis. Nut-husking machine. No. 1,297,497; Mar. 18; v. 260; p. 439.
- Rosenthal, Herman, Yonkers, N. Y., assignor to Rosenthal Tobacco Machine Company. Leaf-tobacco-cutting machine. (Reissue.) No. 14,601; Feb. 25; v. 259; p. 754.
- Rosenthal, Max, et al. (See McLaughlin, William D., assignor.)
- Rosenthal, Morris, Buffalo, N. Y. Stretcher-carrier for bicycles. No. 1,316,332; Sept. 16; v. 266; p. 364.
- Rosenthal Tobacco Machine Company. (See Rosenthal, Herman, assignor.) (Reissue.)
- Rosentreter, Albert J., Boonton, assignor to E. Zabriskie, Maplewood, N. J., and F. B. Hutchins, New York, N. Y. Door-hanger. No. 1,319,490; Oct. 21; v. 267; p. 436.
- Rosenwasser, Morris, Astoria, N. Y. Legging. No. 1,312,923; Aug. 12; v. 265; p. 234.
- Rosenzweig, Siegfried, New York, N. Y. Valve-gear. No. 1,298,796; Apr. 1; v. 261; p. 42.
- Rosenzweig, Siegfried, New York, N. Y. Valve-gear. No. 1,323,788; Dec. 2; v. 269; p. 106.
- Rosenzweig, Siegfried, New York, N. Y. Valve-gear. No. 1,323,789; Dec. 2; v. 269; p. 106.
- Roshon, Charles J., Blairsville, Pa. Safe-lock. No. 1,317,221; Sept. 30; v. 266; p. 616.
- Rosier, Charles, New York, N. Y. Press for trousers. No. 1,310,297; July 15; v. 264; p. 486.
- Rosiger, Fred. (See Guignard and Rosiger.)
- Rickoph, Clarence M., Cleveland, Ohio. Towel-rack. No. 1,291,162; Jan. 14; v. 258; p. 299.
- Rosner, Charles T., Camden, N. J. Package-tie. No. 1,298,405; Mar. 25; v. 260; p. 658.
- Rosner, Rudolf, Chicago, Ill. Stack take-up for belt transmission. No. 1,326,532; Dec. 30; v. 269; p. 782.
- Ross, Amos A., Haskell, Okla. Cotton-picker. No. 1,314,096; Aug. 26; v. 265; p. 508.
- Ross, Barton, Buffalo, N. Y. Dust-collector. No. 1,316,924; Sept. 23; v. 266; p. 525.
- Ross, Charles E., Columbus, Ohio. Brick-handling machinery. No. 1,325,864; Dec. 23; v. 269; p. 620.
- Ross, Charley C., Springfield, Mo. Gate-latch. No. 1,312,051; Aug. 5; v. 265; p. 37.
- Ross, Clyde P., assignor to Roberts and Schaefer Company, Chicago, Ill. Conveyor. No. 1,322,469; Nov. 18; v. 268; p. 512.



## Alphabetical list of patentees—Continued.

- Ross, David E., assignor to The Ross Gear and Tool Company, La Fayette, Ind. Machine for cutting internal threads. &c. No. 1,296,854; Mar. 11; v. 260; p. 270.
- Ross, Edwin A., Venice, Calif. Dental-floss holder. No. 1,316,807; Sept. 23; v. 266; p. 502.
- Ross, Elmore N., et al. (See Atkins, William, assignor.) (Reissue.)
- Ross, Frank B., Cape Girardeau, Mo. Vulcanizer for rubber boots and shoes. No. 1,311,012; July 22; v. 264; p. 660.
- Ross, Frank E. (See Frederick and Ross.)
- Ross, Frederick A., Whitley Bay, England. Antivibration suspension device. No. 1,302,482; Apr. 29; v. 261; p. 937.
- Ross, Frederick N. (See Sattley and Ross.)
- Ross Gear and Tool Company, The. (See Ross, David E., assignor.)
- Ross, George E., Waterloo, Iowa. Hydrocarbon-preheater for carburetors. No. 1,305,170; May 27; v. 262; p. 608.
- Ross, George H., and A. Anderson, Fort Frances, Ontario, Canada. Extension-table. No. 1,304,204; May 20; v. 262; p. 386.
- Ross, Herbert O., St. Louis, Mo. Rack or file for correspondence and the like. No. 1,298,628; Mar. 25; v. 260; p. 705.
- Ross, Hugh, Sheboygan, Wis. Gauntlet. No. 1,315,421; Sept. 9; v. 266; p. 183.
- Ross, James, Saskatoon, Saskatchewan, Canada. Combined chair and hammock. No. 1,317,106; Sept. 23; v. 266; p. 558.
- Ross, John H., Kansas City, Mo. Mold for casting vent-pipe flashings. No. 1,296,321; Mar. 4; v. 260; p. 114.
- Ross, John H., Kansas City, Mo. Plug for liquid-containers. No. 1,307,755; June 24; v. 263; p. 565.
- Ross, John K., Chicago, Ill. Pneumatic tire. No. 1,321,556; Nov. 11; v. 268; p. 290.
- Ross, John L. (See Ross, Vernon I. and J. L.)
- Ross, John O., assignor to B. F. Sturtevant Company, Boston, Mass. Paper-making. No. 1,290,360; Jan. 7; v. 258; p. 83.
- Ross, Louis S., Newtonville, Mass., assignor to Central Railway Signal Company, Pittsburgh, Pa. Spike attachments for railway signal-fuses. No. 1,296,561; Mar. 4; v. 260; p. 166.
- Ross, Mark A., Chicago, Ill. Steam-turbine. No. 1,308,116; July 1; v. 264; p. 20.
- Ross, Oscar A. (See Gerli and Ross.)
- Ross, Oscar A., New York, N. Y. System for preventing leakage from fuel-tanks. No. 1,325,913; Dec. 23; v. 269; p. 628.
- Ross, Richard, Waterville, Wash. Combined tooth brush and powder holder. No. 1,324,173; Dec. 9; v. 269; p. 223.
- Ross, Robert H., assignor of one-fourth to A. W. Gardner, Yarmouth, Nova Scotia, Canada. Buckle. No. 1,313,210; Aug. 12; v. 265; p. 291.
- Ross, Scott C. (See Richards, Francis H., assignor.)
- Ross, Sidney J., deceased; H. Scholfield, administrator, London, England. Lock-nut device. No. 1,315,160; Sept. 2; v. 266; p. 125.
- Ross, Thomas W., St. Louis, Mo. Bubble-fountain for dental cuspidors. No. 1,291,163; Jan. 14; v. 258; p. 300.
- Ross, Torey. (See Folger and Ross.)
- Ross, Vernon I. and J. L., Wellington, Ohio. Lubricator. No. 1,317,759; Oct. 7; v. 267; p. 19.
- Ross, William, South Porcupine, Ontario, Canada. Centrifugal pump. No. 1,293,938; Feb. 11; v. 259; p. 254.
- Ross, William, South Porcupine, Ontario, Canada. Grizzly for ore separation. No. 1,321,773; Nov. 11; v. 268; p. 331.
- Ross, William J., assignor of one-fourth to L. H. Beane, Sacket Harbor, N. Y. Automatic safety-razor. No. 1,306,441; June 10; v. 263; p. 259.
- Rossberg, William N., and G. E. Sheridan, Butte, Mont. Hydrometallurgy of copper. No. 1,292,075; Jan. 21; v. 258; p. 550.
- Rossendale-Reddaway Belting & Hose Co., The. (See Barton, James, assignor.)
- Rossendale-Reddaway Belting & Hose Co., The. (See Barton and Cotterill, assignors.)
- Rosser, Horace S., Norfolk, Va. Piston-packing. No. 1,300,197; Apr. 3; v. 261; p. 385.
- Rossi, Giuseppe, Natick, R. I. Aerial torpedo. No. 1,307,928; June 24; v. 263; p. 597.
- Rossi, Joseph, Peetzburg, N. J. Ash-sifter. No. 1,306,633; June 10; v. 263; p. 295.
- Rossini, Joshua, Olyphant, Pa. Head-block. No. 1,324,271; Dec. 9; v. 269; p. 242.
- Rossiter, Edgar A., Chicago, Ill. Water-filter. No. 1,326,374; Dec. 30; v. 269; p. 751.
- Rossiter, George A., assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,308,683; July 1; v. 264; p. 124.
- Rossiter, George A., Brooklyn, N. Y., assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,311,716; July 29; v. 264; p. 814.
- Rossmann, Allen M., Wilmette, Ill. Internal-combustion engine. No. 1,306,777; June 17; v. 263; p. 354.
- Rossum, Carl A. and O. F., Winnipeg, Manitoba, Canada. Carburetor. No. 1,304,205; May 20; v. 262; p. 386.
- Rossum, Oscar F. (See Rossum, Carl A. and O. F.)
- Rotary Meter Company. (See Mayer, Charles P., assignor.)
- Rotary Scraper Company. (See Sperling, Oscar, assignor.)
- Rote, Bela W., assignor to L. J. Weadock, Elyria, Ohio. Plastic composition. No. 1,318,804; Oct. 14; v. 267; p. 279.
- Rote, John G., Belmont, Mass. Chocolate-heating apparatus. No. 1,304,101; May 20; v. 262; p. 367.
- Rotenberger, William, Mount Kisco, N. Y. Mortar-mixing box or tray. No. 1,316,061; Sept. 16; v. 266; p. 313.
- Roth, Armine, Washington, D. C. Shaft-straightener. No. 1,322,267; Nov. 18; v. 268; p. 474.
- Roth, Carl H., Newark, N. J. Automatic blade-straightening machine. No. 1,291,658; Jan. 14; v. 258; p. 415.
- Roth, Carl H., Newark, N. J. Grinding and polishing machine. No. 1,297,596; Mar. 18; v. 260; p. 460.
- Roth, Charles H. (See Coyle and Roth.)
- Roth, Fred, Brooklyn, N. Y. Cigarette-case. No. 1,320,926; Nov. 4; v. 268; p. 107.
- Roth, Harry, Newport, Ky. Making shoe-soles. No. 1,322,955; Nov. 25; v. 268; p. 655.
- Roth, Jacob M., Pittsburgh, Pa. Mold-heating furnace. No. 1,296,122; Mar. 4; v. 260; p. 70.
- Roth, James D., Waterbury, Conn. Fastener. No. 1,320,496; Nov. 4; v. 268; p. 26.
- Roth, Martin L., Wilkes-Barre, Pa. Manifold-heater. No. 1,311,417; July 29; v. 264; p. 759.
- Roth, Maximilian, Chicago, Ill. Clinker-clamp and flue-cleaner. No. 1,321,246; Nov. 11; v. 268; p. 231.
- Roth, Philip A., Milwaukee, Wis. Heat-controlling alarm mechanism. No. 1,303,395; May 13; v. 262; p. 200.
- Roth, Pius J., Brooklyn, N. Y. Tooth-brush. No. 1,308,374; July 1; v. 264; p. 67.
- Rothchild, Joseph, assignor to John Simmons Company, New York, N. Y. Internal-combustion engine. No. 1,298,098; Mar. 25; v. 260; p. 592.
- Rothermel, Curtis J., Philadelphia, Pa. Seal. No. 1,326,291; Dec. 30; v. 269; p. 736.
- Rothermel, Curtis J., Philadelphia, Pa., assignor to The Barrett Company. Retainer member for roofing-fabric rolls. No. 1,312,211; Aug. 5; v. 265; p. 67.
- Rothermel, Curtis J., Philadelphia, Pa., assignor to The Barrett Company. Screen. No. 1,314,219; Aug. 26; v. 265; p. 532.
- Rothery, Albert, Bridgeport, Conn. Clothes-hanger for doors. No. 1,301,607; Apr. 22; v. 261; p. 737.
- Rothfuchs, G. (See Rothfuchs, Louis, assignor.)
- Rothfuchs, Louis, assignor of one-half to G. Rothfuchs, Three Oaks, Mich. Dirigible headlight for automobiles. No. 1,297,913; Mar. 18; v. 260; p. 528.
- Rothholz, William A., New York, N. Y. Cloth-roller. No. 1,290,361; Jan. 7; v. 258; p. 83.
- Rothman, Max, et al. (See Crowley, Richard J., assignor.)
- Rothrock, William H., Allentown, Pa. Antiskid device. No. 1,318,597; Oct. 14; v. 267; p. 240.
- Rothschild, Louis, Philadelphia, Pa. Auto-tire carrier. No. 1,311,463; July 29; v. 264; p. 767.
- Rothschild, Marcus. (See Dollscheck, Charles W., assignor.)
- Rothweiler, Robert, Mount Clemens, Mich. Rotary combustion-engine. No. 1,294,834; Feb. 18; v. 259; p. 500.
- Rotnagle, Hyman, New York, N. Y. Pressing apparatus. No. 1,299,036; Apr. 1; v. 261; p. 97.
- Rotsaert, Medard J. E., Portland, Oreg. Printer's-border-mitering jig. No. 1,313,606; Aug. 19; v. 265; p. 382.
- Rotter, Max, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Combustion-engine power plant. No. 1,317,395; Sept. 30; v. 266; p. 649.
- Rottmer, Henry E., Washington, D. C. Automobile-bed. No. 1,292,076; Jan. 21; v. 258; p. 550.
- Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Construction of solid wheels. No. 1,303,501; May 13; v. 262; p. 220.
- Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Gaging apparatus for ball and roller bearings. No. 1,317,459; Sept. 30; v. 266; p. 661.
- Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Verifying apparatus. No. 1,319,361; Oct. 21; v. 267; p. 411.
- Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Ball or roller bearing cage. No. 1,320,096; Oct. 28; v. 267; p. 573.
- Rouen, Alexander, Manitowoc, Wis. Bomb-catapult. No. 1,295,069; Feb. 18; v. 259; p. 553.
- Roughen, Patrick, Fond du Lac, Wis. Heater. No. 1,319,621; Oct. 21; v. 267; p. 461.
- Rought, Frank. (See Betts, William H., assignor.)
- Roulrier, Rudolph. (See Collin, Joseph A., assignor.)
- Roumeliote, Chris. (See Roumeliote, George, assignor.)
- Roumeliote, George, assignor to C. Roumeliote, Sioux City, Iowa. Confection-dispensing device. No. 1,316,648; Sept. 23; v. 266; p. 473.
- Round, George W. (See Starrett and Round.)
- Round, John C., London, England. Heat-conservator. No. 1,306,281; June 10; v. 263; p. 230.
- Rounds, James I. (See Roberson, John J., assignor.)
- Rountree, Joseph G., Buville, Tex. Farm-tractor. No. 1,301,976; Apr. 29; v. 261; p. 840.



- Rourke, Charles J. (See Poulson and Rourke, assignors.)
- Rousseau, Chauncey D., near Fort Wayne, Ind. Automobile-lock. No. 1,320,415; Nov. 4; v. 268; p. 11.
- Rousseau, Frank L., Pittsburgh, Pa. Corn-plaster. No. 1,310,771; July 22; v. 264; p. 605.
- Rousseau, Onesime, Detroit, Mich. Winding-drum for motor-vehicle wheels. No. 1,325,658; Dec. 23; v. 269; p. 582.
- Rousseau, Stanislas, Alton, Ill. Gas-turbine. No. 1,300,026; Apr. 8; v. 261; p. 347.
- Roussou, Jacques. (See Olson, Arthur A., assignor.)
- Roussotte, dit Roussolte, Jules A., Paris, France. Aero-plane-wheel. No. 1,316,333; Sept. 16; v. 266; p. 365.
- Routin, Joseph L., Paris, France. Support for aiming devices, telemeters, and other applications. No. 1,312,000; Aug. 5; v. 265; p. 27.
- Routledge, William, Middlesex, England. Magnetic shuttle-motion. No. 1,302,437; Apr. 29; v. 261; p. 928.
- Routledge, William, London, England. Screw-propeller. No. 1,304,102; May 20; v. 262; p. 367.
- Routson, Arthur J., assignor of two-thirds to J. H. Henderson and H. A. Werner, Prairie Depot, Ohio. Oil-level indicator and signaling device. No. 1,310,544; July 22; v. 264; p. 563.
- Rover, Adolph B., assignor of one-half to G. A. Reynolds and S. W. Reynolds, Binghamton, N. Y. Control mechanism for hydraulic elevators. No. 1,307,756; June 24; v. 263; p. 565.
- Row, Reuben R., and H. C. Davis, Elizabeth, N. J., assignors to American Marine Equipment Corporation, New York, N. Y. Evaporator, feed-water heater, and the like. No. 1,304,379; May 20; v. 262; p. 421.
- Rowan, James, *et al.* (See Loveless, Fred H., assignor.)
- Rowan, Walter R. C., Pittsburgh, Pa. Type-writer cabinet. No. 1,300,780; Apr. 15; v. 261; p. 535.
- Rowan, William P., assignor to Elder Manufacturing Company, St. Louis, Mo. Shirt-sleeve. No. 1,294,711; Feb. 18; v. 259; p. 471.
- Rowand, Lewis G., Brooklyn, assignor to The New Jersey Zinc Company, New York, N. Y. Inclined screen. No. 1,294,309; Feb. 11; v. 259; p. 342.
- Rowand, Lewis G., Brooklyn, assignor to The New Jersey Zinc Company, New York, N. Y. Magnetic ore-separator. No. 1,303,396; May 13; v. 262; p. 200.
- Rowand, Lewis G., Brooklyn, assignor to The New Jersey Zinc Company, New York, N. Y. Magnetic separator. No. 1,303,397; May 13; v. 262; p. 200.
- Rowand, Lewis G., Brooklyn, assignor to The New Jersey Zinc Company, New York, N. Y. Magnetic ore-separator. No. 1,303,398; May 13; v. 262; p. 201.
- Rowand, Lewis G., Brooklyn, assignor to New Jersey Zinc Company, New York, N. Y. Apparatus for separating ore by flotation. No. 1,312,754; Aug. 12; v. 265; p. 201.
- Rowbitzky, Stephen V., Washington, D. C. Dental plate. No. 1,324,521; Dec. 9; v. 269; p. 291.
- Rowden, Albert and R. A. Hafford, Groveton, N. H. Paper-cutter. No. 1,307,151; June 17; v. 263; p. 422.
- Rowe, Alvin V., Galesburg, Ill. Gate. No. 1,294,712; Feb. 18; v. 259; p. 471.
- Rowe, Alvin V., Galesburg, Ill. Gate-hinge. No. 1,316,062; Sept. 16; v. 266; p. 314.
- Rowe, Alvin V., Galesburg, Ill. Rubbing device for animals. No. 1,319,362; Oct. 21; v. 267; p. 411.
- Rowe, Alvin V., assignor to Rowe Manufacturing Company, Galesburg, Ill. Cattle-aligning device. No. 1,301,503; Apr. 22; v. 261; p. 719.
- Rowe, Alvin V., and G. W. Ericson, assignors to Rowe Manufacturing Co., Galesburg, Ill. Sack-baler. No. 1,301,504; Apr. 22; v. 261; p. 719.
- Rowe, Harry. (See Parsons, Bennett, and Rowe.)
- Rowe, James, Chicago, Ill. Book-pad adjuster for automatic book-trimming machines. (Reissue.) No. 14,616; Mar. 18; v. 260; p. 545.
- Rowe, John, Casey, Iowa. Mud-shoe for automobiles. No. 1,312,924; Aug. 12; v. 265; p. 234.
- Rowe Manufacturing Co. (See Knutson, Alfred W., assignor.)
- Rowe Manufacturing Company. (See Rowe, Alvin V., assignor.)
- Rowell, Dudley G., Appleton, Wis. Founder's ladle. No. 1,301,172; Apr. 22; v. 261; p. 654.
- Rowell, Lewis D., assignor, by mesne assignments, to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lifting-magnet. No. 1,325,914; Dec. 23; v. 269; p. 629.
- Rowell, Walden T., assignor of one-half to C. P. Hargigan, Chicago, Ill. Time-switch for electric lights. No. 1,294,540; Feb. 18; v. 259; p. 431.
- Rowen, Thomas C. (See Mackey, Jay A., assignor.)
- Rowland, George, Louisville, Ky. Whip-top. No. 1,295,929; Mar. 4; v. 260; p. 24.
- Rowland, Robert A., Westview, Ohio. Machine for cutting round tubs or bowls. No. 1,314,019; Aug. 26; v. 265; p. 494.
- Rowland, Thad H., Oberlin, and B. W. Brockett, Cleveland Heights, Ohio. Resilient heel. No. 1,317,222; Sept. 30; v. 266; p. 616.
- Rowledge, Arthur J., assignor to D. Napier & Son Limited, London, England. Cylinder for internal-combustion engines. No. 1,309,103; July 8; v. 264; p. 231.
- Rowledge, Arthur J., assignor to D. Napier & Son Limited, London, England. Fluid-tight plug or socket. No. 1,312,001; Aug. 5; v. 265; p. 27.
- Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Fusible link. No. 1,305,010; May 27; v. 262; p. 578.
- Rowley, Frank G. (See Swasey, Cornelius B., assignor.)
- Rowley, James F., Chicago, Ill. Artificial foot. No. 1,319,491; Oct. 21; v. 267; p. 436.
- Rowley, James F., Chicago, Ill. Knee-joint for artificial limbs. No. 1,321,151; Nov. 11; v. 268; p. 213.
- Rowley, James F., Chicago, Ill. Indoor-golf course. No. 1,322,058; Nov. 18; v. 268; p. 434.
- Rowley, James F., Chicago, Ill. Hinge-joint for artificial limbs. No. 1,322,059; Nov. 18; v. 268; p. 434.
- Rowling, William H., Oakland, Calif. Traffic-signal for motor-vehicles. No. 1,311,418; July 29; v. 264; p. 759.
- Rowntree, Harold, Kenilworth, assignor to National Pneumatic Company, Chicago, Ill. Electric control of fluid-pressure-actuated motors. No. 1,292,077; Jan. 21; v. 258; p. 550.
- Rowntree, Harold, Kenilworth, Ill., assignor, by mesne assignments, to The Westinghouse Air Brake Company, Wilmerding, Pa. Car-control device. No. 1,297,498; Mar. 18; v. 260; p. 439.
- Rowntree, Harold, Kenilworth, assignor to National Pneumatic Company, Chicago, Ill. Electric control of fluid-pressure-actuated motors. No. 1,300,781; Apr. 15; v. 261; p. 535.
- Rowntree, Harold, Kenilworth, Ill., assignor to National Pneumatic Company, New York, N. Y. Train-control system. No. 1,311,182; July 29; v. 264; p. 714.
- Rowntree, Richardson, Seattle, Wash. Barrel, keg, or the like. No. 1,309,779; July 15; v. 264; p. 393.
- Rowsey Gasoline Process Co., The. (See Rowsey, Gentry L., assignor.)
- Rowsey, Gentry L., assignor to The Rowsey Gasoline Process Co., Humboldt, Kans. Still. No. 1,316,511; Sept. 16; v. 266; p. 399.
- Roy, Edward H., Nashville, Tenn. Head hand-mirror. No. 1,324,133; Dec. 9; v. 269; p. 215.
- Roy, George, Aurora, Ill. Rail-joint. No. 1,292,520; Jan. 28; v. 258; p. 677.
- Roy, George, assignor of one-half to P. Lzarnopyski, Chicago, Ill. Infantry-fort. No. 1,299,620; Apr. 8; v. 261; p. 256.
- Roy, Joseph, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Stove-door. No. 1,315,039; Sept. 2; v. 266; p. 104.
- Roy, William D. (See Landis and Roy.)
- Royal, Belford G., Camden, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,305,745; June 3; v. 263; p. 97.
- Royal Brass Company, The. (See Jansen, Bernard H., assignor.)
- Royal Typewriter Company. (See Dowd, Bernard J., assignor.)
- Royal Typewriter Company. (See Hess and Myers, assignors.)
- Royal Typewriter Company. (See Myers, Lewis C., assignor.)
- Royal Worcester Corset Co. (See Lecoutre, Auguste J., assignor.)
- Royce, Charles W., Providence, R. I. Spinning or drawing roll. No. 1,324,622; Dec. 9; v. 269; p. 310.
- Royce, Frederick H., assignor to Rolls Royce Limited, Derby, England. Lubricating means for the valve-gear of internal-combustion engines. No. 1,298,099; Mar. 25; v. 260; p. 593.
- Royce, Frederick H., assignor to Rolls-Royce Limited, Osmaston, Derby, England. Internal-combustion engine. No. 1,304,808; May 27; v. 262; p. 541.
- Royce, Frederick H., assignor to Rolls Royce, Limited, Osmaston, England. Connecting-rod for reciprocating engines. No. 1,322,824; Nov. 25; v. 268; p. 630.
- Royce, Frederick H., and E. W. Hives, assignors to Rolls-Royce Limited, Derby, England. Priming device for internal-combustion engines. No. 1,326,098; Dec. 23; v. 269; p. 663.
- Royce, Rowland H., Hartford, Conn. Bushing. No. 1,298,100; Mar. 25; v. 260; p. 593.
- Royer, David H., Hartsville, Ohio. Onion-topping machine. No. 1,299,233; Apr. 1; v. 261; p. 140.
- Royer, Elam M., *et al.* (See Herr, Abram B., assignor.)
- Royer, Grover, Edmond, Okla. Planter. No. 1,291,164; Jan. 14; v. 258; p. 300.
- Royer, Noah E., Empire, Calif. Water-power mechanism. No. 1,325,379; Dec. 16; v. 269; p. 612.
- Royle, George E. (See Royle, John J. and G. E.)
- Royle, John J., deceased, and G. E. Royle, Irlam, near Manchester; E. Hargraves, H. C. D. Scott, and G. L. Ridehalgh, executors, assignors to Royles Limited, Irlam, England. Fluid-operated and thermostatically-controlled valve mechanism. No. 1,326,898; Dec. 30; v. 269; p. 850.
- Royle, Vernon, Paterson, N. J. Saw-gage. No. 1,319,179; Oct. 21; v. 267; p. 377.
- Royles Limited. (See Royle, John J. and G. E., assignors.)
- Royse, Grover C., Tacoma, Wash. Reinforcing element for concrete. No. 1,317,824; Oct. 7; v. 267; p. 31.
- Royster, David O., St. Louis, Mo. Method of and apparatus for synchronously making motion-pictures and sound-records. No. 1,293,203; Feb. 4; v. 259; p. 52.
- Royster, David O., St. Louis, Mo. Air-compressor. No. 1,293,204; Feb. 4; v. 259; p. 52.
- Roze, Martin E., Stockton, Cal. Automatic steering control. No. 1,294,174; Feb. 11; v. 259; p. 311.



## Alphabetical list of patentees—Continued.

- Rozene, Saul, assignor to Canfield Rubber Company, Bridgeport, Conn. Bag and closure therefor. No. 1,318,411; Oct. 14; v. 267; p. 204.
- Rozyski, Frank C., Philadelphia, Pa. Keyless padlock. No. 1,310,634; July 22; v. 264; p. 580.
- Ruane, Gerald W., Archbald, Pa. Brake. No. 1,292,078; Jan. 21; v. 258; p. 551.
- Ruane, Thomas P., Fairchance, Pa. Ram-shovel for pulling and cleaning beehive coke-ovens. No. 1,291,165; Jan. 14; v. 258; p. 300.
- Rubber Regenerating Company. (See Gibbons, Willis A., assignor.)
- Rubber Regenerating Company. (See Keen and Frigeri, assignors.)
- Rubber Regenerating Company. (See Price, Raymond B., assignor.)
- Rubber Regenerating Company. (See Steinle, William J., assignor.)
- Rubber Regenerating Company. (See Wiegand and Uffelmann, assignors.)
- Rubel, William, Flint, Mich. Pipe-cleaner. No. 1,316,744; Sept. 23; v. 266; p. 491.
- Rubencame, Edmund W., Jr. (See Gray and Rubencame.)
- Rubenfeld, Samuel. (See Amdursky and Rubenfeld.)
- Rubenkoenig, John, et al. (See Hawley, Royal A., assignor.)
- Rubenstein, Nathan, New York, N. Y. Machine for facilitating the unrolling of cloth from cloth bolts. No. 1,300,655; Apr. 15; v. 261; p. 507.
- Rubin, Adolph, St. Louis, Mo. Cloth-cutting machine. (Reissue.) No. 14,654; May 27; v. 262; p. 622.
- Rubin, Barney, Chicago, Ill. Cabinet for sound-reproducing machines. No. 1,315,989; Sept. 16; v. 266; p. 301.
- Rubin, Frederick W., Indianapolis, Ind. Sealing means for doors, windows, and the like. No. 1,311,775; July 29; v. 264; p. 825.
- Rubin, Victor, Winnipeg, Manitoba, Canada. Hot-air furnace. No. 1,300,880; Apr. 15; v. 261; p. 555.
- Rubinkam, Henry W., Chicago, Ill. Aeroplane construction. No. 1,319,117; Oct. 21; v. 267; p. 364.
- Rubsam, Charles F., Brooklyn, N. Y. Vehicle-wheel. No. 1,311,842; July 29; v. 264; p. 837.
- Ruchty, Alexander E., Cincinnati, Ohio. Automatic safety-valve. No. 1,308,684; July 1; v. 264; p. 124.
- Rucker, Mildred, Danville, Ky. Skirt-gage. No. 1,319,248; Oct. 21; v. 267; p. 390.
- Ruckman, Floyd A., Columbia City, Ind., assignor to Johnson Acetylene Gas Company, Crawfordsville, Ind. Reserve magazine and signal. No. 1,306,355; June 19; v. 263; p. 244.
- Ruckman, Floyd A., Columbia City, assignor to Johnson Acetylene Gas Company, Crawfordsville, Ind. Acetylene-generator. No. 1,313,607; Aug. 19; v. 265; p. 382.
- Ruckstinat, Johannes. (See McLachlan and Ruckstinat.)
- Ruda, Louis A. (See Sylvan, Joseph, assignor.)
- Rudberg, Sten, Stockholm, Sweden. Rock-drilling apparatus. No. 1,319,968; Oct. 28; v. 267; p. 549.
- Ruddell, William A., Asbury Park, N. J. Liquid coating composition. No. 1,292,964; Jan. 28; v. 258; p. 783.
- Ruddle, Sydney H., and E. Davidson, Brisbane, Queensland, Australia. Double-acting internal-combustion engine. No. 1,303,598; May 13; v. 262; p. 237.
- Rude, James M., Covington, Ky. Receptacle-cleansing apparatus. No. 1,308,195; July 1; v. 264; p. 35.
- Rude, John F., Liberty, Ind. Manure-spreader. No. 1,310,445; July 22; v. 264; p. 545.
- Rude, John F., Liberty, Ind. Straw-spreader. No. 1,321,152; Nov. 11; v. 268; p. 213.
- Rude, John F., Liberty, Ind. Manure-spreader-body construction. No. 1,325,957; Dec. 23; v. 269; p. 636.
- Rude, John F., Liberty, Ind. Driving means for manure-spreader beaters. No. 1,325,958; Dec. 23; v. 269; p. 637.
- Rude, Joseph R., Winton, Calif. Shoe-cleaner. No. 1,323,409; Dec. 2; v. 269; p. 35.
- Rudge-Whitworth Limited. (See Blair, William, assignor.)
- Rudin, Karl V., Stockholm, Sweden. Revolution-counting mechanism for calculating-machines. No. 1,308,510; July 1; v. 264; p. 91.
- Rudin, Karl V., Stockholm, Sweden. Step-by-step mechanism in calculating-machines. No. 1,312,002; Aug. 5; v. 265; p. 28.
- Rudisill, John A., Lewistown, Mont. Coasting-wheel. No. 1,297,252; Mar. 11; v. 260; p. 358.
- Rudkin, William P., Baltimore, Md. Shield for blow-torches and the like. No. 1,302,438; Apr. 29; v. 261; p. 928.
- Rudolph, Harold V. (See Scott and Rudolph.)
- Rudolph, Henry. (See Bachmann, Walter, assignor.)
- Rudolph, Raymond H., assignor of one-half to C. Friedman, Chicago, Ill. Leather-stitching machine. No. 1,295,070; Feb. 18; v. 259; p. 553.
- Rudolph, Wilhelm K. J., assignor to the Firm Signal Gesellschaft m. b. H., Kiel, Germany. Multiple-contact microphone. No. 1,315,337; Sept. 9; v. 266; p. 168.
- Rudolph Wurllitzer Manufacturing Company, The. (See Hope-Jones, Robert, assignor.)
- Rudolph Wurllitzer Manufacturing Company, The. (See Lockwood, Louis S., assignor.)
- Rudolph Wurllitzer Manufacturing Company, The. (See McCormick, Frank L., assignor.)
- Rudolphi, Frank, assignor to American Can Company, New York, N. Y. Can-body-flanging machine. No. 1,318,412; Oct. 14; v. 267; p. 204.
- Rudorf, George, London, England, assignor to The Permutit Company, New York, N. Y. Making base-exchanging bodies. No. 1,304,206; May 20; v. 262; p. 387.
- Rudow, Hyman. (See Mutchnik and Rudow.)
- Rudstrom, Carl J., and B. F. Downing, Eureka, Cal. Hoisting-bucket. No. 1,291,166; Jan. 14; v. 258; p. 300.
- Rudy, Mary E., Los Angeles, Calif. Combined folding table and lunch-box. No. 1,317,895; Oct. 7; v. 267; p. 44.
- Rueb, Earl J., assignor to O. K. Electric Storage Battery Co., Oklahoma, Okla. Storage-battery electrode and making same. No. 1,291,167; Jan. 14; v. 258; p. 300.
- Rueckert, Curtis, Chicago, Ill. Fluid-fuel burner. No. 1,307,213; June 17; v. 263; p. 433.
- Ruedenberg, Reinhold, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke, G. m. b. H., Berlin, Germany. Regulating commutator-machines. No. 1,305,011; May 27; v. 262; p. 578.
- Ruediger, Ernest H., Bismarck, N. D. Constant-temperature bath. No. 1,323,105; Nov. 25; v. 268; p. 683.
- Rüedy, Hermann, Jestetten, Germany. Motor-truck. No. 1,305,171; May 27; v. 262; p. 608.
- Ruedy, Julius M. (See Engler and Ruedy.)
- Ruehlmann, Louis E., assignor to Hale & Kilburn Corporation, Philadelphia, Pa. Panel-retaining means. No. 1,312,925; Aug. 12; v. 265; p. 235.
- Ruekert, Urban, Waukesha, Wis. Kerosene-oil burner. No. 1,323,493; Dec. 2; v. 269; p. 51.
- Ruemele, Emil, et al. (Meyer, August, assignor.)
- Ruemelin, Richard. (See Keenan, Christensen, and Ruemelin.)
- Rueter, Henry A., Boston, and E. E. Winkley, Lynn, Mass. Machine for washing tumblers. No. 1,318,111; Oct. 7; v. 267; p. 85.
- Ruff, Frederick C., Los Angeles, assignor to By-Products Manufacturing Company, San Francisco, Calif. Apparatus for extracting aromatic oils. No. 1,319,420; Oct. 21; v. 267; p. 423.
- Ruff, Frederick C., Los Angeles, assignor to By-Products Manufacturing Company, San Francisco, Calif. Process of and apparatus for cracking petroleum. No. 1,325,582; Dec. 23; v. 269; p. 567.
- Ruff, Oliver A., assignor to W. V. Knoll, receiver, Dayton, Ohio. Automatic cut-out. No. 1,293,205; Feb. 4; v. 259; p. 53.
- Ruff, Samuel W., Gackle, N. D. Rope-clamping device. No. 1,322,956; Nov. 25; v. 268; p. 655.
- Ruffin, David A., and E. H. Prichard, Albuquerque, N. Mex. Level. No. 1,297,914; Mar. 18; v. 260; p. 528.
- Ruffin, John A., assignor to The Noiseless Typewriter Company, Middletown, Conn. Type-writing machine. No. 1,295,212; Feb. 25; v. 259; p. 609.
- Ruger, James W., assignor to W. K. Ruger, Buffalo, N. Y. Roll-stamping machine. No. 1,291,168; Jan. 14; v. 258; p. 301.
- Ruger, Wallace K. (See Ruger, James W., assignor.)
- Ruggaber, Joseph, et al. (See Higley, John P., assignor.)
- Ruggeri, Pietro, Varna, Ill. Railway-rail fastener. No. 1,292,079; Jan. 21; v. 258; p. 551.
- Ruggiero, Vincenzo, Wendell, W. Va. Foldable box. No. 1,307,757; June 24; v. 263; p. 565.
- Ruggles, Emma F., Brooklyn, N. Y. Telephone-receiver rest. No. 1,291,169; Jan. 14; v. 258; p. 301.
- Ruggles, Henry B. (See Hodge and Ruggles.)
- Ruggles-Klingemann Mfg. Co. (See Kimball, James L., assignor.)
- Ruggles, Wells M., Wakefield, Mich. Handle for one-man crosscut-saws. No. 1,312,425; Aug. 5; v. 265; p. 107.
- Rugh, Harry O., assignor to Railway Electric Manufacturing Company, Chicago, Ill. Telegraph type-writer. No. 1,295,797; Feb. 25; v. 259; p. 744.
- Ruhe, Carleton, Olean, N. Y. Hull for hydroplanes or boats. No. 1,318,413; Oct. 14; v. 267; p. 205.
- Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Primary battery. No. 1,296,700; Mar. 11; v. 260; p. 235.
- Rumage, Louis, Lakewood, Ohio. Diestock. No. 1,322,625; Nov. 25; v. 268; p. 593.
- Rumble, H. H. (See Wells, Clark H., assignor.)
- Rumburg, James P., assignor of one-half to F. W. Foster, Artesia, and one-half to J. E. Evans, Los Angeles, Calif. Circuit-breaker. No. 1,325,959; Dec. 23; v. 269; p. 637.
- Rummer, John C., Flemington, Pa. Grade-indicator. No. 1,319,249; Oct. 21; v. 267; p. 390.
- Rummer, John C., Flemington, Pa. Combination tire-tool and lifting-jack. No. 1,325,414; Dec. 16; v. 269; p. 518.
- Rummerfeld, Joseph R., Plattsmouth, Nebr. Direction-indicator. No. 1,299,863; Apr. 8; v. 261; p. 312.
- Rumolino, Santo, Genoa, Italy. Electric welding apparatus. No. 1,323,913; Dec. 2; v. 269; p. 130.
- Rumpel, Fred R., Richfield, Idaho. Furrow-marker. No. 1,302,714; May 6; v. 262; p. 44.
- Rumpf, Peter J., Chicago, Ill. Shoe-polishing machinery. No. 1,309,370; July 8; v. 264; p. 279.
- Rumpf, William H. (See Rosencranz, Emil C., assignor.)
- Rumrill, Frank. (See Campbell, Duncan R., assignor.)



*Alphabetical list of patentees—Continued.*

- Rundell, Raymond R., A. E. Ogden, and F. S. Ellett, Elmira, N. Y. Attachment for talking-machines. No. 1,303,502; May 13; v. 262; p. 220.
- Rundqvist, Andreas V., assignor to Aktiebolaget Precisioner, Stockholm, Sweden. Means for automatically truing the grinding-disks of circular grinding-machines. No. 1,294,541; Feb. 18; v. 259; p. 431.
- Runge, Robert F., and S. Clifford, Philadelphia, Pa. Chuck. No. 1,320,361; Oct. 28; v. 267; p. 362.
- Runk, Margaret C. (See Palmer, George E., assignor.)
- Runnalls, Francis E., Maynooth, Ontario, Canada. Combination drive and steering gear. No. 1,315,040; Sept. 2; v. 266; p. 104.
- Runne, Henry G., assignor of one-half to C. L. Townsend, Rochester, N. Y. Vehicle. No. 1,325,583; Dec. 23; v. 269; p. 567.
- Runner, Claude C., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,320,927; Nov. 4; v. 268; p. 107.
- Runnette, Virginia A., Pittsburgh, Pa. Device for forming surgical dressings. No. 1,294,713; Feb. 18; v. 259; p. 471.
- Runnion, David A., Fortress Monroe, Va. Pocket flashlight. No. 1,321,153; Nov. 11; v. 268; p. 213.
- Runyan, Arthur L., Omaha, Nebr. Resilient heel for footwear. No. 1,299,037; Apr. 1; v. 261; p. 97.
- Runyan, Arthur L., Omaha, Nebr. Compound universal joint. No. 1,304,103; May 20; v. 262; p. 367.
- Runyan, Benjamin F., Houston, Tex. Diver's mask. No. 1,324,747; Dec. 9; v. 269; p. 333.
- Runyan, Clay M., Lakewood, Ohio, assignor, by mesne assignments, to The Advance Manufacturing Company, Detroit, Mich. Feeding device for blanks. No. 1,292,377; Jan. 21; v. 258; p. 622.
- Rupp, Albert, Eichbühl, near Thun, Switzerland. Propeller. No. 1,318,805; Oct. 14; v. 267; p. 279.
- Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Combined simmering-burner and lighter for gas-stoves. No. 1,322,349; Nov. 18; v. 268; p. 489.
- Ruppert, George. (See Hubbard and Ruppert.) (Re-issue.)
- Ruprecht, Charles C., Midway, Fla. Separating apparatus. No. 1,291,170; Jan. 14; v. 258; p. 301.
- Rusby, Joseph H., Nutley, N. J. Electric switch. No. 1,290,362; Jan. 7; v. 258; p. 84.
- Rusdell, William J. (See Humphrey and Rusdell.)
- Rush, Albert, Columbus, Ohio. Joint for metallic sash and the like. No. 1,305,746; June 3; v. 263; p. 98.
- Rush, Albert, Columbus, Ohio. Door for elevator-shafts. No. 1,315,795; Sept. 9; v. 266; p. 250.
- Rush, Chris C., Greenville, S. C. Display-rack. No. 1,299,783; Apr. 8; v. 261; p. 295.
- Rush, Cleon B., and J. J. Morgan, Wellington, New Zealand. Tipping-gear for motor-vehicles and the like. No. 1,319,118; Oct. 21; v. 267; p. 364.
- Rush, Harry, Chinook, Mont. Rim-tool. No. 1,324,693; Dec. 9; v. 269; p. 323.
- Rush, William S. (See Muhleisen, Henry W., assignor.)
- Rushmore, Samuel W., Plainfield, N. J. Explosive shell. No. 1,297,499; Mar. 18; v. 260; p. 439.
- Rushton, Edwin E., assignor to E. Hand, Los Angeles, Calif. Liquid-fuel smelter. No. 1,314,150; Aug. 26; v. 265; p. 518.
- Rushton, Herbert J., Southfields, England. Means for supporting ceramic ware while being fired in ovens. No. 1,313,018; Aug. 12; v. 265; p. 253.
- Rushton, James L., Bolton, England. Machine for opening, scutching, and similarly treating cotton and other fibrous materials. No. 1,310,545; July 22; v. 264; p. 563.
- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Counterbalance for locomotive driving-wheels. No. 1,310,136; July 15; v. 264; p. 458.
- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Driving wheel and crank. No. 1,313,737; Aug. 19; v. 265; p. 406.
- Rushton, Kenneth, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Power-reverse mechanism. No. 1,296,322; Mar. 4; v. 260; p. 115.
- Rusk, Clara, administratrix. (See Rusk, Raymond.)
- Rusk, Raymond, deceased; C. Rusk, administratrix, assignor of one-half to J. W. Lindsey, San Angelo, Tex. Lifeboat. No. 1,322,957; Nov. 25; v. 268; p. 655.
- Russ, George F. (See Penney and Russ.)
- Russ, George F. (See Penney, Whiteman, and Russ.)
- Russ, Harvey M., Woodstock, Ontario, Canada. Dump-wagon. No. 1,305,670; June 3; v. 263; p. 84.
- Russ, John D., Spencer, W. Va. Device for securing couplings to flexible hose. No. 1,296,222; Mar. 4; v. 260; p. 93.
- Russ, Myrenus H., Pine, Colo. Harness-buckle. No. 1,310,298; July 15; v. 264; p. 487.
- Russell, Arthur L., Boston, and C. E. Grush, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Conforming extensible material. No. 1,313,916; Aug. 26; v. 265; p. 473.
- Russell, Arthur L., Boston, and C. E. Grush, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stretching-machine. No. 1,313,917; Aug. 26; v. 265; p. 473.
- Russell, Arthur L., Boston, and C. E. Grush, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-stretching machine. No. 1,313,918; Aug. 26; v. 265; p. 474.
- Russell, Charles D., St. Paul, Minn. Spike. No. 1,301,173; Apr. 22; v. 261; p. 655.
- Russell Company, The. (See Kinsley, William S., assignor.)
- Russell, Corneilius W., Burlington, Iowa. Sewage-disposal system. No. 1,301,977; Apr. 29; v. 261; p. 840.
- Russell, Edward E., Los Angeles, Cal. Chuck. No. 1,295,798; Feb. 25; v. 259; p. 745.
- Russell, Frank E., Batavia, N. Y. Camera. No. 1,309,747; July 15; v. 264; p. 387.
- Russell, Frederick S., Glasgow, Scotland. Cigarette and cigar case. No. 1,290,663; Jan. 7; v. 258; p. 158.
- Russell, Frederick S., Glasgow, Scotland. Cigarette and cigar case. No. 1,317,223; Sept. 30; v. 266; p. 616.
- Russell, George H., Florence, Ala. Rail-saw. No. 1,322,825; Nov. 25; v. 268; p. 630.
- Russell, Guy M., Rochester, assignor to American Piano Company, New York, N. Y. Musical instrument. No. 1,310,035; July 15; v. 264; p. 439.
- Russell, Herbert E., New Haven, Conn., assignor to The Greist Manufacturing Company. Sewing-machine ruffler. No. 1,314,705; Sept. 2; v. 266; p. 44.
- Russell, John E., and L. S. Hawkes, Omaha, Nebr. Planetarium. No. 1,290,664; Jan. 7; v. 258; p. 158.
- Russell, Joseph A. (See Tischler, Edward A., assignor.)
- Russell, Joseph J., Toledo, Ohio. Radiator. No. 1,310,251; July 15; v. 264; p. 479.
- Russell Manufacturing Co., The. (See Achtmeyer, William, assignor.)
- Russell Manufacturing Company. (See Williams, Charles L., assignor.)
- Russell, Mitchell W., Springfield, Mass. Meter-support. No. 1,290,665; Jan. 7; v. 258; p. 158.
- Russell, Mitchell W., Springfield, Mass. Bracket. No. 1,299,234; Apr. 1; v. 261; p. 140.
- Russell, Ossie, Cape Fair, Mo. Incubator. No. 1,308,995; July 8; v. 264; p. 210.
- Russell, Parlee H., Van Buren, Ohio. Fireless cooking utensil. No. 1,310,635; July 22; v. 264; p. 580.
- Russell, Percy, assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Dental implement. No. 1,312,270; Aug. 5; v. 265; p. 77.
- Russell, Reuben J., and E. S. Pillsbury, assignors to Century Electric Company, St. Louis, Mo. Oscillating electric fan. No. 1,326,155; Dec. 23; v. 269; p. 673.
- Russell, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,310,106; July 15; v. 264; p. 452.
- Russell, Robert A., New York, assignor to Paragon Metal Cap Company, Inc., Brooklyn, N. Y. Receptacle-closure. No. 1,311,419; July 29; v. 264; p. 759.
- Russell, Robert C., Pittsburgh, Pa. Card-index device. No. 1,323,724; Dec. 2; v. 269; p. 94.
- Russell, Stanley D., Winfield, Kans. Sickle-puller. No. 1,302,595; May 6; v. 262; p. 21.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,290,666; Jan. 7; v. 258; p. 158.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Co., Chicago, Ill. Car-roof. No. 1,291,171; Jan. 14; v. 258; p. 301.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car construction. No. 1,293,206; Feb. 4; v. 259; p. 53.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car construction. No. 1,293,207; Feb. 4; v. 259; p. 54.
- Russell, Thomas N., assignor to Harry Vissering & Company, Chicago, Ill. Ladder. No. 1,304,809; May 27; v. 262; p. 541.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car end construction. No. 1,313,953; Aug. 26; v. 265; p. 481.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Railway-car. (Re-issue.) No. 1,463,55; Apr. 15; v. 261; p. 603.
- Russell, W. S., trustee. (See Nobles, Milton A., assignor.)
- Russell, W. S., trustee. (See Pocock, Francis A., assignor.)
- Russell, William, Milwaukee, Wis. Rail tie and fastener. No. 1,321,672; Nov. 11; v. 268; p. 312.
- Russell, William J., Detroit, Mich. Acid-tank. No. 1,315,241; Sept. 9; v. 266; p. 150.
- Russell, William P., Anniston, Ala. Retouching-frame. No. 1,296,432; Mar. 4; v. 260; p. 138.
- Russler, Oscar F., assignor to Johnson Bronze Company, New Castle, Pa. Method and apparatus for lining bushings. No. 1,321,478; Nov. 11; v. 268; p. 275.
- Russo, Andrew, Fitchburg, Mass. Reclining-chair. No. 1,310,581; July 22; v. 264; p. 570.
- Rust, Edwin G., Philadelphia, Pa. Blast-furnace top. No. 1,307,884; June 24; v. 263; p. 588.
- Rust, Edwin G., Philadelphia, Pa. Excavating and loading machine. No. 1,311,621; July 29; v. 264; p. 796.
- Rust Engineering Company, The. (See Yocmans, Warner M., assignor.)
- Rust, Frank P., Detroit, Mich. Air-lift pump. No. 1,314,539; Sept. 2; v. 266; p. 12.



## Alphabetical list of patentees—Continued.

- Rust, Henry A., Hopewell, Va. Hat attachment. No. 1,324,412; Dec. 9; v. 269; p. 269.
- Rust, Mortimer R., Fulton, N. Y. Beating-engine lighter-bar. No. 1,304,604; May 27; v. 262; p. 503.
- Rust, William C., Goldendale, Wash. Clip. No. 1,316,180; Sept. 16; v. 266; p. 337.
- Rusteberg, August A., Chicago, Ill., assignor, by mesne assignments, to The Champion Kerosene-Burner Company, Kenton, Ohio. Generator and burner. No. 1,320,928; Nov. 4; v. 268; p. 107.
- Rusteberg, August A., Chicago, Ill., assignor, by mesne assignments, to The Champion Kerosene-Burner Company, Kenton, Ohio. Oil-burner. No. 1,320,929; Nov. 4; v. 268; p. 108.
- Rusteberg, August A., Chicago, Ill., assignor, by mesne assignments, to The Champion Kerosene-Burner Company, Kenton, Ohio. Hydrocarbon generator and burner. No. 1,320,930; Nov. 4; v. 268; p. 108.
- Rusteberg, August A., Chicago, Ill., assignor, by mesne assignments, to The Champion Kerosene-Burner Company, Kenton, Ohio. Hydrocarbon heating unit. No. 1,322,350; Nov. 18; v. 268; p. 489.
- Rustige, Frans J. H., and F. C. Sandström, Stockholm, Sweden. Regulating heating systems. No. 1,321,395; Nov. 11; v. 268; p. 260.
- Ruth, Conant W., Wakefield, Mass. Railway-tie plate. No. 1,316,049; Sept. 23; v. 266; p. 473.
- Ruth, Frederick H., Buffalo, N. Y. Hardening copper. No. 1,326,693; Dec. 30; v. 269; p. 811.
- Ruth, James A., Marion, N. C., assignor to Scott and Williams, Inc., New York, N. Y. Attachment for knitting-machines. No. 1,299,621; Apr. 8; v. 261; p. 256.
- Ruth, Joseph P., Jr., Independence, Colo. Flotation apparatus. No. 1,309,219; July 8; v. 264; p. 251.
- Ruth, Robert W., Belle Vernon, Pa. Swaging-machine. No. 1,306,232; June 10; v. 263; p. 220.
- Rutherford, John H., Knoxville, Tenn. Mine-car-wheel-attaching device. No. 1,308,996; July 8; v. 264; p. 210.
- Rutherford, William R., Halifax, Nova Scotia, Canada. Paper-fite. No. 1,318,598; Oct. 14; v. 267; p. 240.
- Ruths, Carl J., Djursholm, Sweden. Steam-superheater arrangement in plants provided with steam-accumulators. No. 1,294,714; Feb. 18; v. 259; p. 471.
- Ruths, Johannes K., Djursholm, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Sulfite-boiler plant. No. 1,292,080; Jan. 21; v. 258; p. 551.
- Ruthven, Albert F., Cleveland, Ohio. Stallion-shield. No. 1,317,107; Sept. 23; v. 266; p. 558.
- Rutishauser, Emil A., Aurora, Ill. Rail-joint. No. 1,307,885; June 24; v. 263; p. 588.
- Rutkus, Joseph, Milwaukee, Wis. Traction attachment for automobiles. No. 1,316,063; Sept. 16; v. 266; p. 314.
- Rutledge, Earl, assignor of one-half to W. C. Wallis, Hope, Ark. Eyeglasses. No. 1,320,931; Nov. 4; v. 268; p. 108.
- Rutledge, Scott. (See Hinde and Flewell, assignors.)
- Ruttan, Alfred A., and G. I. Kester, assignors to Eastman Kodak Company, Rochester, N. Y. Camera-shutter. No. 1,319,905; Oct. 28; v. 267; p. 537.
- Rütter, Hendrich B. (See Grabe, See, Lubberger, Fröbing, and Rütter.)
- Rutter, Sydney E., assignor to W. G. Harris, London, England. Brush. No. 1,292,887; Jan. 28; v. 258; p. 765.
- Rutter, Sydney E., assignor to D. J. Harris, London, England. Mechanism for stropping or honing razor-blades. No. 1,308,196; July 1; v. 264; p. 35.
- Rutz, Julius F., and F. A. Gauger, assignors, by mesne assignments, to said F. A. Gauger and F. R. Dengel, Milwaukee, Wis. Tub-fixture. No. 1,324,929; Dec. 16; v. 269; p. 428.
- Ruud, Edwin, assignor to Ruud Manufacturing Company, Pittsburgh, Pa. Incinerator. No. 1,301,322; Apr. 22; v. 261; p. 635.
- Ruud Manufacturing Company (See Humphrey, Herbert S., assignor.)
- Ruud Manufacturing Company. (See Ruud, Edwin, assignor.)
- Ryall, Albert U. B. (See Beldam and Ryall.)
- Ryan, Albert J., Cincinnati, Ohio. Stiffening material for shoes. No. 1,316,650; Sept. 23; v. 266; p. 473.
- Ryan, Alfred, Oldham, assignor to British Cellulose & Chemical Manufacturing Company, Limited, London, England. Spar, rod, tube, pole, mast, and the like. No. 1,293,208; Feb. 4; v. 259; p. 54.
- Ryan, Bartle, et al. (See Ryan, Neta M., assignor.)
- Ryan, Charles J., Acton, England. Gramophone and the like. No. 1,298,406; Mar. 25; v. 260; p. 658.
- Ryan, Daniel B., New York, N. Y. Milk-dispensing apparatus. No. 1,317,594; Sept. 30; v. 266; p. 687.
- Ryan, Edward, Chicago, Ill., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Locomotive-tender. No. 1,311,917; Aug. 5; v. 265; p. 12.
- Ryan, Edward A., et al. (See White, Edward H., assignor.)
- Ryan, Edward A., Kansas City, Mo., assignor of one-third to W. W. Farnsworth, Littleton, Colo., and one-third to E. H. White, Cumberland, Md. Chain placing and removing device. No. 1,325,333; Dec. 16; v. 269; p. 504.
- Ryan, Frank M., Phoenix, Ariz. Indicator for the steering-wheels of automobiles. No. 1,323,914; Dec. 2; v. 269; p. 130.
- Ryan, Horace K. (See Luebcke, Paul E., assignor.)
- Ryan, Frederick H., Boston, Mass. Center-punch. No. 1,313,335; Aug. 19; v. 265; p. 330.
- Ryan, J. A. (See Akans, Walter C., assignor.)
- Ryan, James, Indianapolis, Ind. Liquid-level indicator. No. 1,313,738; Aug. 19; v. 265; p. 406.
- Ryan, John, assignor to Anti-Friction Belt Dressing Company, Baltimore, Md. Dispensing-can. No. 1,311,013; July 22; v. 264; p. 65.
- Ryan, John C., Toronto, Ontario, Canada. Propeller. No. 1,307,834; June 24; v. 263; p. 580.
- Ryan, John E., Boston, Mass. Hand-grip for steering-wheels. No. 1,317,730; Oct. 7; v. 267; p. 13.
- Ryan, John J., Bayonne, N. J. Snow-removing machine. No. 1,310,546; July 22; v. 264; p. 564.
- Ryan, Lancelot, St. Louis, Mo. Railway-crossing. No. 1,304,207; May 20; v. 262; p. 387.
- Ryan, Lonnie W., assignor to Lindsay Light Company, Chicago, Ill. Treatment of thorium fluorid. No. 1,307,152; June 17; v. 263; p. 422.
- Ryan, Lonnie W., assignor to Lindsay Light Company, Chicago, Ill. Recovery of thorium. No. 1,307,153; June 17; v. 263; p. 422.
- Ryan, Michael H., San Bernardino, Calif. Piston. No. 1,324,272; Dec. 9; v. 269; p. 242.
- Ryan, Millie E., Chicago, Ill. Window-cleaner. No. 1,315,161; Sept. 2; v. 266; p. 125.
- Ryan, Neta M., Northcote, Victoria, assignor of one-third to B. Ryan, Northcote, one-sixth to C. C. Jackson, and one-half to R. S. Falkner, Melbourne, Australia. Machine for forming subterraneous passages and lining the same with earthenware, artificial stone, or the like. No. 1,303,399; May 13; v. 262; p. 201.
- Ryan, Thomas F. (See Barstow, Welch, assignor.)
- Ryan, Walter S., New York, N. Y. Electrically-operated time mechanism. No. 1,301,008; Apr. 15; v. 261; p. 583.
- Ryan, Walter S., assignor of one-half to R. C. Lafferty, New York, N. Y. Door operating and locking device. No. 1,300,782; Apr. 15; v. 261; p. 535.
- Ryan, William F. (See Moore, Elmer E., assignor.)
- Ryba, Joseph, Chicago, Ill. Garbage-receptacle. No. 1,315,863; Sept. 9; v. 266; p. 263.
- Ryback, Isidor. (See Wolf and Ryback.)
- Ryback, Isidor, Brooklyn, and L. Wolf, assignor to National Hat Lining Company, New York, N. Y. Inserting hat-linings. No. 1,299,038; Apr. 1; v. 261; p. 97.
- Ryberg, Charles J., assignor to National Chronograph Company, Chicago, Ill. Electrically-operated signaling and recording device. No. 1,317,321; Sept. 30; v. 266; p. 635.
- Ryckoff, Abraham, New York, N. Y. Ship-bed. No. 1,301,174; Apr. 22; v. 261; p. 655.
- Ryzek, Paul A., Perth Amboy, N. J. Salvage device for ships. No. 1,295,375; Feb. 25; v. 259; p. 646.
- Rydbeck, Patrik S. (See Hultgren and Rydbeck.)
- Ryder, Charles D., Covington, Ky., assignor to Corcoran-Victor Company, Cincinnati, Ohio. Fender-bracket for automobile-lamps. No. 1,314,704; Sept. 2; v. 266; p. 44.
- Ryder, Charles D., Covington, Ky., and R. B. Kersev, Cincinnati, Ohio, assignors to Thomson Electric Welding Company, Lynn, Mass. Automatic current-regulator for seam-welding machines. No. 1,292,888; Jan. 28; v. 258; p. 765.
- Rydquist, Adolph, Rochester, N. Y. Closure for hollow bodies. No. 1,297,403; Mar. 18; v. 260; p. 420.
- Rydquist, Adolph, Rochester, N. Y. Delivering mechanism. No. 1,307,377; June 24; v. 263; p. 497.
- Rydquist, Adolph, Rochester, N. Y. Pressure-operated pump-controlling mechanism. No. 1,310,503; July 22; v. 264; p. 556.
- Rydquist, Adolph, Rochester, N. Y. Check-controlled vending-machine. No. 1,310,504; July 22; v. 264; p. 556.
- Rye, Clarence A. (See Glenn, William A., assignor.)
- Ryerson, Charles S., Norfolk, Va. Lamp-mounting. No. 1,313,739; Aug. 19; v. 265; p. 406.
- Ryerson, Charles S., assignor to Cadillac Motor Car Company, Detroit, Mich. Carburetor. No. 1,314,020; Aug. 26; v. 265; p. 494.
- Ryerson, Eugene H., assignor to Hamblin & Russell Manufacturing Company, Worcester, Mass. Handle for kitchen utensils. No. 1,313,211; Aug. 12; v. 265; p. 291.
- Ryerson, William, Paterson, assignor of one-half to C. Serriere, Hawthorne, N. J. Angler's tool. No. 1,322,826; Nov. 25; v. 268; p. 630.
- Rymal, George J., Denver, Colo. Combined kitchen-stove and hot-water heater. No. 1,319,969; Oct. 28; v. 267; p. 549.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism. No. 1,307,024; June 17; v. 263; p. 400.
- S. Feather Company. (See Hall, William R. D., assignor.)
- S. Karpen & Bros. (See Hultgren, Charles, assignor.)
- S. Karpen & Bros. (See Westphal, Louis C., assignor.)
- S. Smith & Sons Motor Accessories Limited. (See Clift, Frederic H., assignor.)
- S. Smith & Sons (Motor Accessories) Limited. (See Dorer, Primus O., assignor.)
- S. Smith & Sons. (See Rogers and Dorer, assignors.)



- S. Sternau & Co. (See Poulton, Frank E., assignor.)  
 S. Sternau & Co. Inc. (See Ball, Henry P., assignor.)  
 S. Sternau & Company. (See Wagner, Charles L., assignor.)  
 S. A. Woods Machine Company. (See Osteman, Carl G., assignor.)  
 S. F. Bowser & Company. (See Bowser, Allan A., assignor.)  
 S. & H. Gilsey. (See Gilsey, Harry, assignor.)  
 S-K. Manufacturing Company. (See Scringeour, William, assignor.)  
 S. L. Allen & Co. (See Allen, Samuel L., assignor.)  
 S. O. & Co., The. (See Neuberth, Franklin G., assignor.)  
 S. R. Smythe Company, The. (See Smythe, H. E., assignor.)  
 S. R. Smythe Company, The. (See Smythe, Horace E., assignor.)  
 S. S. Hepworth Company *et al.* (See Mackintosh, Edward D., assignor.)  
 S. S. Stafford, Inc. (See Deppermann, William, assignor.)  
 S. S. White Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)  
 S. S. White Dental Manufacturing Company. (See Glenn, Thomas F., assignor.)  
 S. S. White Dental Manufacturing Company, The. (See Johnston, William A., assignor.)  
 S. V. Barnes. (See Barnes, Willard F., assignor.)  
 Saal, George A., Youngstown, Ohio. Flush-tank lever. No. 1,318,599; Oct. 14; v. 267; p. 240.  
 Saal, Henry G., Chicago, Ill. Braking mechanism. No. 1,293,939; Feb. 11; v. 259; p. 255.  
 Saal, Henry G., Chicago, Ill. Explosive missile. No. 1,320,991; Nov. 4; v. 268; p. 119.  
 Saalburg, Charles W., Richmond Hill, assignor to Multicolor Intaglio Press Company, New York, N. Y. Producing etched intaglio printing-surfaces. No. 1,290,786; Jan. 7; v. 258; p. 186.  
 Saalburg, Charles W., Richmond Hill, N. Y., assignor to Animated Picture Products Company. Changeable picture. No. 1,305,835; June 3; v. 263; p. 114.  
 Saalburg, Charles W., Richmond Hill, assignor to Multicolor Intaglio Press Company, New York, N. Y. Transferring carbon-tissue prints. No. 1,308,531; July 1; v. 264; p. 95.  
 Sabalala, Santie, Cleveland, Ohio. Car-brake. No. 1,297,915; Mar. 18; v. 260; p. 529.  
 Sabatini, Silvio, Milwaukee, Wis., and C. Giovanelli, Weeksbury, Ky. Truck-loader. No. 1,316,256; Sept. 16; v. 266; p. 350.  
 Sabin, Jasper J., Yakima, Wash. Automatic door. No. 1,305,982; June 3; v. 263; p. 143.  
 Sabin, William, San Francisco, Calif. Key-fastener. No. 1,300,489; Apr. 15; v. 261; p. 473.  
 Sabin, William W., assignor to N. B. Gregg and J. C. Harralson, Portland, Oreg. Locking device for motor-vehicles. (Reissue.) No. 14,628; Apr. 1; v. 261; p. 182.  
 Sabina, Emerich, assignor to E. Sabina Company, Inc., Pittsburgh, Pa. Mechanical toy. No. 1,302,857; May 6; v. 262; p. 72.  
 Sabo, Alex. Jersey City, N. J. Combination-ladder. No. 1,299,784; Apr. 8; v. 261; p. 295.  
 Saborsky, Arthur, Lakewood, Ohio, assignor, by mesne assignments, to The Advance Manufacturing Company, Detroit, Mich. Printing-machine. No. 1,294,175; Feb. 11; v. 259; p. 311.  
 Sabulite (Great Britain) Limited. (See McCandlish and Robson, assignors.)  
 Saccaggio, Pedro C., and F. A. Lagrange, Buenos Aires, Argentina. Spark-arrester. No. 1,291,172; Jan. 14; v. 258; p. 301.  
 Sack, Abel, Glendive, Mont. Nut-lock. No. 1,302,858; May 6; v. 262; p. 72.  
 Sackerman, Ernest A., Hackensack, N. J. Device for thawing frozen pipes or the like. No. 1,316,190; Sept. 16; v. 266; p. 337.  
 Sacerdoti, Cesare, Genoa, Italy. Arrangement of electric storage batteries in submarines. No. 1,293,209; Feb. 4; v. 259; p. 54.  
 Sachs, Henry, *et al.* (See Tankersley, William, assignor.)  
 Sachs, Joseph, Hartford, Conn. Electric switch. No. 1,292,081; Jan. 21; v. 258; p. 551.  
 Sachs, Joseph, Hartford, Conn. Electric switch. No. 1,294,176; Feb. 11; v. 259; p. 311.  
 Sachs, Joseph, Hartford, Conn. Convertible electric-appliance-receiving box. No. 1,296,323; Mar. 4; v. 260; p. 115.  
 Sachs, Joseph, Hartford, Conn. Electric switch. No. 1,297,012; Mar. 11; v. 260; p. 307.  
 Sachs, Joseph, Hartford, Conn. Electric service and meter-testing system. No. 1,301,175; Apr. 22; v. 261; p. 655.  
 Saco-Lowell Shops. (See Banfield, Penney, and Colby, assignors.)  
 Saco-Lowell Shops. (See Penney, Loren W., assignor.)  
 Sadaris, Spyro, *et al.* (See Santacrose, Agostino, assignor.)  
 Saddlemire, Harry, Central Bridge, N. Y. Shield. No. 1,318,600; Oct. 14; v. 267; p. 241.  
 Sadler, Edwin H., and E. L. Hall, Huntington Park, Calif. Supporting device for automobiles. No. 1,297,916; Mar. 18; v. 260; p. 529.  
 Sadlovsky, Henry, Newark, N. J., assignor of one-half to R. Prysiazny. Handle for bags, &c. No. 1,306,778; June 17; v. 263; p. 354.  
 Sadoske, William, Springfield, Ohio. Driving mechanism for lathes. No. 1,294,952; Feb. 18; v. 259; p. 527.  
 Sadoski, Walter, Detroit, Mich. Ash-sifter. No. 1,297,597. Mar. 18; v. 260; p. 460.  
 Sadowsky, Nathan, New York, N. Y., assignor of one-half to S. Grossman. Ice-skate attachment. No. 1,310,137; July 15; v. 264; p. 458.  
 Sadtler, Samuel S., assignor to C. B. Ford, Philadelphia, and J. M. Castle, Germantown, Pa. Fire-extinguishing liquid. No. 1,316,191; Sept. 16; v. 266; p. 338.  
 Sadtler, Samuel S., Springfield township, Montgomery county, Pa. Making dicalcium phosphate and fertilizer material produced therein. No. 1,326,533; Dec. 30; v. 269; p. 782.  
 Saecker, F. Edward, *et al.* (See Smith, Homer P., assignor.)  
 Saecker, Herman G., *et al.* (See Smith, Homer P., assignor.)  
 Sælid, Oskar, and K. Pettersen, Sarpsborg, Norway. Electric-heat-storing apparatus. No. 1,311,464; July 29; v. 264; p. 767.  
 Saenger, Rudolf, New York, N. Y. Making lace hair-nets. No. 1,300,881; Apr. 15; v. 261; p. 556.  
 Safe Cabinet Co., The. (See Dick and Wigginton, assignors.)  
 Safe-Cabinet Co., The. (See Schriefer, Edward H., assignor.)  
 Safe Deposit and Trust Company, *et al.*, executors. (See Mergenthaler, Eugene G.)  
 Safe-Guard Check Writer Company. (See Whitaker, John, assignor.)  
 Safeguard Tag Company. (See Tewksbury, Charles B., assignor.)  
 Safety Car Heating and Lighting Co., The. (See Bijur, Joseph, assignor.)  
 Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.)  
 Safety Car Heating & Lighting Company. (See Hulse, George E., assignor.)  
 Safety Car Heating & Lighting Company. (See Rodgers and Harvey, assignors.)  
 Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)  
 Safety Car Heating & Lighting Company. (See Thompson, William I., assignor.)  
 Safety Car Heating and Lighting Co., The. (See Vullieumier, Rudolph, assignor.)  
 Safety First Devices Company. (See Earnheart, Lucien T., assignor.)  
 Safety Gas Lighter Corporation. (See Dowdy, Roy F., assignor.)  
 Safety-Graph Educational Film Company. (See Doyle and Wallace, assignors.)  
 Safety-Graph Educational Film Company. (See McGraw, Daniel F., assignor.)  
 Safety Patent Co. (See Beckner, Noah J., assignor.)  
 Safety Rail Shoe & Coupling Company. (See Cunningham, James C., assignor.)  
 Safety Wire Gas Globe Company, The. (See Ackers, Frank O., assignor.)  
 Safford, Henry, Blissville, Ark. Copy and book holder. No. 1,319,535; Oct. 21; v. 267; p. 444.  
 Safford, Lewis A., Buffalo, N. Y., assignor of two-thirds to Bradley & Vrooman Company, Chicago, Ill. Apparatus for removing paint fumes. No. 1,316,745; Sept. 23; v. 266; p. 492.  
 Saffstrom, Gustaf A., Chicago, Ill. Tire-tool. No. 1,290,787; Jan. 7; v. 258; p. 186.  
 Sagberg, Paul, and L. Middelthon, Christiania, Norway. Means for preventing racing in jet-turbines. No. 1,307,703; June 24; v. 263; p. 555.  
 Sage, Charles E., Rochester, N. Y. Tuning-peg adjustment for stringed musical instruments. No. 1,309,658; July 15; v. 264; p. 371.  
 Sage, Edwin R., Jersey City, assignor to R. S. Broas, East Orange, N. J. Refrigeration apparatus. No. 1,296,012; Mar. 4; v. 260; p. 44.  
 Sage, M. Jay, Brooklyn, N. Y. Fill-box for storage-tanks. No. 1,317,595; Sept. 30; v. 266; p. 688.  
 Sage, Ralph V., Philadelphia, Pa. Metal car. No. 1,308,299; July 1; v. 264; p. 54.  
 Sage, Ralph V., Philadelphia, Pa. Car construction. No. 1,308,300; July 1; v. 264; p. 54.  
 Sagendorf, Claude D. (See Reyburn and Sagendorf.)  
 Sager, George A., Albany, N. Y. Machine for turning, beading, and pressing cuffs, collars, and the like. No. 1,299,039; Apr. 1; v. 261; p. 97.  
 Sager, George A., Albany, N. Y. Train-pipe coupling. No. 1,321,154; Nov. 11; v. 268; p. 213.  
 Sager, James H., assignor to J. H. Sager Company, Rochester, N. Y. Bumper. No. 1,296,855; Mar. 11; v. 260; p. 270.  
 Sager, John P. (See Angle and Sager.)  
 Sager, John W., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tube-rolling machine. No. 1,293,940; Feb. 11; v. 259; p. 255.  
 Sager, Peter H., Marianna, Fla. Flushing and cover-operating mechanism for toilets. No. 1,313,740; Aug. 19; v. 265; p. 406.



## Alphabetical list of patentees—Continued.

- Saba, Ludwig, Chicago, Ill. Match-box. No. 1,296,123; Mar. 4; v. 260; p. 71.
- Saba, Pramathanath. (See Sommer and Saha.)
- Sahler, Emil, assignor of one-half to J. W. Holt, Minneapolis, Minn. Wire-splicing device. No. 1,322,136; Nov. 18; v. 268; p. 449.
- Sahler, Emil, and J. W. Holt, Minneapolis, Minn. Wire-fence stretcher and tightener. No. 1,322,060; Nov. 18; v. 268; p. 435.
- Sahler, H. (See Reed, Andrew H., assignor.)
- Sailer, Arthur G., assignor to The Sailer & Melvin Manufacturing Company, Massillon, Ohio. Metal-forming machine. No. 1,321,853; Nov. 18; v. 268; p. 397.
- Sailer & Melvin Manufacturing Company, The. (See Sailer, Arthur G., assignor.)
- Saillot, Alfred L. E. (See Chapsal and Saillot.)
- Sain, Charles M., Logandale, Nev. Postal check. No. 1,311,014; July 22; v. 264; p. 650.
- Saint Joseph Railway, Light, Heat and Power Company. (See Steffens, Fred, assignor.)
- Saint Joseph Railway, Light, Heat and Power Company, St. Joseph, Mo. Car. No. 1,314,375; Aug. 26; v. 265; p. 562.
- Sakaue, Suyeli, East San Pedro, Cal. Artificial bait. No. 1,296,701; Mar. 11; v. 260; p. 235.
- Sakogawa, Masunosuke, Oakland, Calif. Toilet-flushing device. No. 1,308,301; July 1; v. 264; p. 54.
- Saladiner, Joseph M., Bryan, Tex. Multiple submarine-destroyer. No. 1,295,213; Feb. 25; v. 259; p. 609.
- Salaman, George, London, England. Device for use in saving life at sea. No. 1,322,828; Nov. 25; v. 268; p. 630.
- Salambo, Erle S. D., Chicago, Ill. Holder and tray for playing-cards. No. 1,320,798; Nov. 4; v. 268; p. 83.
- Salchli, John F., Frankfort, assignor to D. Marcucilli, Louisville, Ky. Railway-signal. No. 1,306,857; June 17; v. 263; p. 368.
- Salce, Harvey J., Whitehouse, Calif. Internal-combustion engine. No. 1,318,601; Oct. 14; v. 267; p. 241.
- Salember, Lucien G., Tenafly, N. J. Non-skidding device. No. 1,324,069; Dec. 9; v. 269; p. 203.
- Salerno, Ferdinando G., Chicago, Ill. Depositing-machine. No. 1,294,542; Feb. 18; v. 259; p. 432.
- Salerno, Ferdinando G., Chicago, Ill. Machine for depositing confections on wafers, cakes, and the like. No. 1,303,599; May 13; v. 262; p. 237.
- Salerno, Ferdinando G., Chicago, Ill. Depositing-machine. No. 1,315,744; Sept. 9; v. 266; p. 240.
- Sales, Alexander. (See McGuire, Eugene L., assignor.)
- Salfeld, Charles S., Milwaukee, Wis. Spraying apparatus for internal-combustion engines. No. 1,322,137; Nov. 18; v. 268; p. 449.
- Saliger, Alois B., New York, N. Y., assignor, by mesne assignments, to The Beck Duplicator Company. Duplicator. No. 1,297,404; Mar. 18; v. 260; p. 420.
- Saliger, Alois B., New York, N. Y., assignor to Intercontinental Company. Centrifugal gun. No. 1,311,465; July 29; v. 264; p. 767.
- Salisbury Ball Bearing Corporation. (See Rohn, William M., assignor.)
- Salisbury, Charles K., assignor to Standard Separator Company, Milwaukee, Wis. Belt-driving connection. No. 1,301,507; Apr. 22; v. 261; p. 719.
- Salisbury, Charles K., assignor of one-half to G. Barber and one-half to J. A. Harbaugh, Milwaukee, Wis. Milk-ing-machine. No. 1,306,634; June 10; v. 263; p. 295.
- Salisbury, Charles W. (See Roberts, John H., assignor.)
- Salisbury, Orange J., assignor to United Filters Corporation, Salt Lake City, Utah. Filter leaf or disk. No. 1,293,555; Feb. 4; v. 259; p. 135.
- Salley, Thomas P., U. S. Navy. Pipe-reamer. No. 1,298,570; Mar. 25; v. 260; p. 694.
- Salley, Thomas P., Brooklyn, N. Y. Hose-coupling. No. 1,307,273; June 17; v. 263; p. 444.
- Sallust, Ernest M., Wayne township, Owen county, Ind. Seed-corn hanger. No. 1,312,271; Aug. 5; v. 265; p. 77.
- Salmon, George E., and C. J. Volkman, Philadelphia, Pa. Cigarette and cigar holder. No. 1,319,622; Oct. 21; v. 267; p. 461.
- Salmon, James P., et al. (See Dunn, Edmund L., assignor.)
- Salmon, Patrick M., Southboro, Mass. Machine for skinning fat. No. 1,291,173; Jan. 14; v. 258; p. 302.
- Salmon, Wilmer W., New Rochelle, and F. L. Dodgson, Rochester, assignors to General Railway Signal Company, Gates, N. Y. Absolute permissive automatic block signal system. No. 1,292,965; Jan. 28; v. 258; p. 783.
- Salmon, Emile J. J., assignor to Societe Des Moteurs Salmson (Système Canton-Unne), Billancourt, France. Interrupting device for magnetos. No. 1,291,174; Jan. 14; v. 258; p. 302.
- Salmon, Emile J. J., assignor to Societe des Moteurs Salmson (Système Canton-Unne), Billancourt, France. Aeroplane body or cell. No. 1,308,810; July 8; v. 264; p. 175.
- Salmon, Emile J. J., assignor to Societe Des Moteurs Salmson (Système Canton-Unne), Billancourt, France. Aeroplane landing-frame. No. 1,310,716; July 22; v. 264; p. 595.
- Salomon, Joseph, Chicago, Ill. Industrial chair. No. 1,302,859; May 6; v. 262; p. 72.
- Saloun, Martin, Chicago, Ill. Aerial bomb. No. 1,312,212; Aug. 5; v. 265; p. 67.
- Salsich, Neil B., Bethlehem, Pa. Switch-stand. No. 1,303,967; May 20; v. 262; p. 343.
- Salstrom, David B., assignor to E. Kopriva Company, Chicago, Ill. Wood-carving machine. No. 1,324,567; Dec. 9; v. 269; p. 299.
- Salt, Lloyd B., Dedham, Mass. Signaling instrument. No. 1,302,715; May 6; v. 262; p. 44.
- Salt, Wellington, Buffalo, N. Y. Valve structure. No. 1,294,953; Feb. 18; v. 259; p. 527.
- Salt, Wellington, Buffalo, N. Y. Level. No. 1,305,496; June 3; v. 263; p. 50.
- Salter, Edmond A., assignor of one-half to J. W. Payne, Provencal, La. Clutch and actuating mechanism. No. 1,322,351; Nov. 18; v. 268; p. 489.
- Salter, William A., Kansas City, Mo. Clamp. No. 1,306,858; June 17; v. 263; p. 368.
- Salter, William A., assignor to J. D. Havens, Kansas City, Mo.; R. M. Havens, administrator. Printing-press. No. 1,319,906; Oct. 28; v. 267; p. 538.
- Saltzer, Andrew, Los Angeles, Calif. Plow. No. 1,311,530; July 29; v. 264; p. 780.
- Saltzman, Frank W., England, Ark. Drip-pan circuit-closer. No. 1,324,522; Dec. 9; v. 269; p. 291.
- Saltzman, Joseph. (See Capman, Carl E., assignor.)
- Salvati, Michele N., deceased; G. Beer and A. Tedesco, joint executors, assignors to Società Anonima Stabilimenti Biak, Turin, Italy. Connecting-piece for attaching wires and uprights to bars in aeroplane structures. No. 1,325,804; Dec. 23; v. 269; p. 608.
- Salvati, Michele N., deceased; G. Beer and A. Tedesco, joint executors, assignors to Società Anonima Stabilimenti Biak, Turin, Italy. Arrangement for connecting wooden rods with metal bars in aeroplane structures. No. 1,325,805; Dec. 23; v. 269; p. 609.
- Salz Brothers. (See Scheiblecker, Ferdinand, assignor.)
- Samaia, Dino, Milan, Italy. Apparatus for the delivery of several liquids simultaneously or successively. No. 1,300,490; Apr. 15; v. 261; p. 473.
- Samdahl, Clarence, Britton, S. D. Road-drag. No. 1,317,037; Sept. 23; v. 266; p. 544.
- Sammarone, Amato N., Cleveland, Ohio. Cable-coupling. No. 1,312,455; Aug. 5; v. 265; p. 113.
- Sammons, Charles W., Highmore, S. D. Automatic brake. No. 1,318,602; Oct. 14; v. 267; p. 241.
- Sample, Frank L. (See Meadows and Sample.)
- Sampliner, Samuel S., assignor, by mesne assignments, to The Rich-Sampliner Company, Cleveland, Ohio. Neck-scarf or muffler or other knit goods. No. 1,325,755; Dec. 23; v. 269; p. 599.
- Sampson, Charles H., assignor, by mesne assignments, to Todd Protograph Company, Rochester, N. Y. Printing-machine. No. 1,305,012; May 27; v. 262; p. 578.
- Sampson, Charles H., assignor, by mesne assignments, to Todd Protograph Company, Rochester, N. Y. Check-writing machine. No. 1,309,371; July 8; v. 264; p. 280.
- Sampson, Charles H., assignor, by mesne assignments, to Todd Protograph Company, Rochester, N. Y. Printing-machine. No. 1,315,642; Sept. 9; v. 266; p. 222.
- Sampson, Frank E., Chicago, Ill. Manifolding device. No. 1,321,557; Nov. 11; v. 268; p. 290.
- Sampson, Robert V., Denver, Colo. Collar-button. No. 1,305,938; June 3; v. 263; p. 135.
- Sampson, Samuel, New York, N. Y. Collar-bar. No. 1,294,954; Feb. 18; v. 259; p. 528.
- Sams, Albert J., Chicago, Ill. Adjustable hub-plate. No. 1,296,856; Mar. 11; v. 260; p. 270.
- Sams, Robert E., Asheville, N. C. Salve. No. 1,298,407; Mar. 25; v. 260; p. 658.
- Sams, Sidney E., Toronto, Ontario, Canada. Pastry-roller. No. 1,323,410; Dec. 2; v. 269; p. 35.
- Samson Electric Company. (See Wilson, Daniel S., assignor.)
- Samuel Cabot, Inc. (See Cabot, Samuel, assignor.)
- Samuel G. Supplee & Co. (See Guntner, Frank G., assignor.)
- Samuel Gabriel Sons and Company. (See Gabriel, Arthur R., assignor.)
- Samuel Gabriel Sons & Company. (See Seeger, Frederick U., assignor.)
- Samuel L. Moore & Sons Corporation. (See Busch, Arthur L., assignor.)
- Samuel Olson & Co. (See Hammer, Hans O., assignor.)
- Samuel Winslow Skate Mfg. Co., The. (See Leake, John M., assignor.)
- Samuels, Albert S., San Francisco, Calif. Pocket sales-register. No. 1,323,495; Dec. 2; v. 269; p. 51.
- Samuels, Albert S., and J. Rittigstein, San Francisco, Calif. Pocket sales-register. No. 1,323,494; Dec. 2; v. 269; p. 51.
- Samuels, Maurice M. (See Bechoff and Samuels.)
- Samuelson, Gerald S., London, England. Stretcher. No. 1,320,799; Nov. 4; v. 268; p. 83.
- San Francisco Coffee Urn Company. (See Kittinger, Otis A., assignor.)
- Sandberg, Henry J., and J. Vielo, Chicago, Ill. Vehicle-top. No. 1,295,376; Feb. 25; v. 259; p. 646.
- Sandberg, Herbert A., Gordon, Nebr. Oil-can support. No. 1,324,413; Dec. 9; v. 269; p. 270.



*Alphabetical list of patentees—Continued.*

- Sandbo, Anton I., Rock Island, Ill. Vaporizer. No. 1,324,273; Dec. 9; v. 269; p. 242.
- Sanborn, Charles E., Stillwater, Okla. Rotary gas-engine. No. 1,293,623; Feb. 4; v. 259; p. 151.
- Sanborn, Cuyler K. (See Brower, Edward S., assignor.)
- Sanborn, Eugene L., assignor to Smith Engineering Works, Milwaukee, Wis. Crushing-machine. No. 1,309,104; July 8; v. 264; p. 231.
- Sanborn, Hugh D., Swampscott, Mass., assignor to General Electric Company. Constant-current regulator. No. 1,313,117; Aug. 12; v. 265; p. 273.
- Sanborn, John A., Oakland, Calif. Railway-track. No. 1,312,645; Aug. 12; v. 265; p. 181.
- Sanborn, Ralph C., assignor of fifty per cent, to P. J. McKenna, Briarcliff Manor, N. Y. Mathematical instrument. No. 1,310,547; July 22; v. 264; p. 564.
- Sanborn, Samuel G., St. Albans, Vt. Rotary wrench. No. 1,295,799; Feb. 25; v. 259; p. 745.
- Sanchez, Leonardo, assignor of one-third to A. Angulo and one-third to G. C. Lopez, Habana, Cuba. Operating mechanism for dental apparatus. No. 1,315,041; Sept. 2; v. 266; p. 104.
- Sandblom, Gideon E., assignor to Elektriska Pannrennings Aktiebolaget, Gottenborg, Sweden. Steam-boiler cleaner. No. 1,310,875; July 22; v. 264; p. 625.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Music-sheet feeder. No. 1,302,439; Apr. 29; v. 261; p. 928.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Automatic reversing-switch. No. 1,305,013; May 27; v. 262; p. 579.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph-stop. No. 1,308,447; July 1; v. 264; p. 80.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Rectifying alternating currents. No. 1,308,448; July 1; v. 264; p. 80.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Electric motor and governing mechanism therefor. No. 1,308,449; July 1; v. 264; p. 80.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph. No. 1,308,450; July 1; v. 264; p. 80.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph. No. 1,325,209; Dec. 16; v. 269; p. 481.
- Sandels, Axel L., Chicago, Ill. Mechanical movement. No. 1,293,556; Feb. 4; v. 259; p. 135.
- Sander, Alfred H., Newark, N. J., assignor to Grey Iron Casting Company, Mount Joy, Pa. Toy savings-bank. No. 1,324,174; Dec. 9; v. 269; p. 223.
- Sanderlin, Ernest, Camden, N. J. Wrench. No. 1,318,301; Oct. 7; v. 267; p. 123.
- Sanders, Carl B., Muskogee, Okla. Foot-cooler for automobiles. No. 1,316,111; Sept. 16; v. 266; p. 322.
- Sanders, Charles M., Guthrie, Okla. Necktie-adjuster. No. 1,302,225; Apr. 29; v. 261; p. 887.
- Sanders, Davis M., Whitney, S. C. Gear-cutting attachment for milling-machines. No. 1,314,706; Sept. 2; v. 266; p. 44.
- Sanders, George E., Annapolis Royal, Nova Scotia, Canada, assignor, by mesne assignments, to the Government of the United States and the People of the United States. Insecticide and fungicide. No. 1,324,175; Dec. 9; v. 269; p. 223.
- Sanders, Harold W., Rochester, N. H. Clutch-pedal lock. No. 1,317,396; Sept. 30; v. 266; p. 649.
- Sanders, Henry F., and E. C. Disbennett, Caruthersville, Mo. Shock-absorber. No. 1,297,253; Mar. 11; v. 260; p. 358.
- Sanders, John M., Atlanta, Ga. Pea-huller. No. 1,295,605; Feb. 25; v. 259; p. 700.
- Sanders, Theodore E., Independence, La. Hoe. No. 1,317,596; Sept. 30; v. 266; p. 688.
- Sanderson, Leonard. (See Gill, Rea, and Sanderson.)
- Sanderson, Wilber J., San Leandro, Calif. Track for tractors. No. 1,306,282; June 10; v. 263; p. 231.
- Sanderson, William G., Chicago, Ill. Fire-extinguisher. No. 1,299,235; Apr. 1; v. 261; p. 140.
- Sandfield, Michael, Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coil-retaining device. No. 1,311,466; July 29; v. 264; p. 767.
- Sandmann, Earl B. (See Cook and Sandmann.)
- Sandow, Eugen, London, England. Spring-grip dumb-bell. No. 1,308,259; July 1; v. 264; p. 46.
- Sandoz, Jules P., Philadelphia, Pa. Eyeglasses. No. 1,322,138; Nov. 18; v. 268; p. 449.
- Sands, Edward E., Houston, Tex. Bulkhead. No. 1,298,101; Mar. 25; v. 260; p. 593.
- Sandsiedt, Charles A., Manistee, Mich. Automobile-head-light. No. 1,307,758; June 24; v. 263; p. 566.
- Sandström, Felix C. (See Rustige and Sandström.)
- Sandstrom, John, Adams, N. D. Snap-hook. No. 1,310,548; July 22; v. 264; p. 564.
- Sandstrom, Theodore, Indianapolis, Ind. Short-turn-gear mechanism. No. 1,313,954; Aug. 26; v. 265; p. 481.
- Sanford, Edgar F., Alameda, Calif. Fireplace-heater. No. 1,322,626; Nov. 25; v. 268; p. 593.
- Sanford, Harry C. (See Pratt, Charles R., assignor.)
- Sanford, James J., Newark, N. J. Saw-filing device. No. 1,290,667; Jan. 7; v. 258; p. 159.
- Sanford, John A., and M. R. Little, Genesee, N. Y. Record-cabinet. No. 1,303,731; May 13; v. 262; p. 261.
- Sanford, Lottie. (See Church, Ira, assignor.)
- Sanford, Mark R. (See Sanford, John A. and M. R.)
- Sanford, Nelson J., Melrose, Mass. Plasterer's tool. No. 1,294,543; Feb. 18; v. 259; p. 432.
- Sanford, Paul T., Bemidji, Minn. Seed-tape planter. No. 1,292,082; Jan. 21; v. 258; p. 551.
- Sanford Riley Stoker Co. (See Cameron and Riley, assignors.)
- Sanford Riley Stoker Co. (See Riley, Robert S., assignor.)
- Sanford, Sydney J. (See Lucas and Sanford.)
- Sanford, Sydney J., Los Angeles, Calif. Golf apparatus. No. 1,309,105; July 8; v. 264; p. 231.
- Sangamo Electric Company. (See White and Kremer, assignors.)
- Sangamo Electric Company. (See White and Lanphier, assignors.)
- Sanger, Isaac L., Dallas, Tex. Clasp or fastener for garments. No. 1,303,401; May 13; v. 262; p. 201.
- Sanifount Company. (See Wack, George E., assignor.)
- Sanitary Can Machinery Company. (See Brenzinger, Julius, assignor.)
- Sanitary Dish Washing Machine Company. (See Vaudreuil, John, assignor.)
- Sanitary Manufacturing Corporation. (See Evans and Philippi, assignors.)
- Sanitary Refrigerating Machinery Company. (See Schweinle and Hauerwas, assignors.)
- Sanne-Jacobsen, Soren, deceased, Beaver, Pa.; C. Jacobsen, administratrix. Swivel connection. No. 1,323,320; Dec. 2; v. 269; p. 18.
- Sansotta, Domenick A. M., Pittsburgh, Pa. Finger-tip protector. No. 1,306,442; June 10; v. 263; p. 260.
- Santacroce, Agostino, assignor of three-tenths to J. Grumbos and three-tenths to S. Sadaris, Elvria, Ohio. Rubber heel. No. 1,313,118; Aug. 12; v. 265; p. 273.
- Santacroce, Agostino, assignor of three-tenths to J. Grumbos and three-tenths to S. Sadaris, Elvria, Ohio. Sole. No. 1,313,119; Aug. 12; v. 265; p. 273.
- Santmyer, Walter J., Seattle, Wash. Waste-fuel burner. No. 1,304,380; May 20; v. 262; p. 421.
- Sanwo, Katsujiro, Fresno, Calif. Tray-turning machine. No. 1,323,552; Dec. 2; v. 269; p. 62.
- Sapal Société Anonyme des Eliuses Automatiques. (See Leumann, Richard, assignor.)
- Saponoff, Peter K., Brooklyn, N. Y. Covering for floors, stairs, and the like. No. 1,292,889; Jan. 28; v. 258; p. 765.
- Sapp, Gordon G., Chicago, Ill. Combination coffee-pot. No. 1,293,210; Feb. 4; v. 259; p. 54.
- Sapper, Theodore W., Hermiston, Oreg. Cooling system for gas-engines. No. 1,315,423; Sept. 9; v. 266; p. 183.
- Sapozak, Mike, New York, N. Y. Submarine fender. No. 1,307,518; June 24; v. 263; p. 522.
- Sara, Jack, Milwaukee, Wis. Power plant. No. 1,315,527; Sept. 9; v. 266; p. 202.
- Sarazin, Robert, Carrières sur Seine, France. Electric welding. No. 1,302,440; Apr. 29; v. 261; p. 929.
- Sard, Russell E., Colonie, N. Y. Bottle-opener. No. 1,314,905; Sept. 2; v. 266; p. 80.
- Sardo, Jacob, Johnstown, Pa. Door-lock. No. 1,320,028; Oct. 28; v. 267; p. 560.
- Sargeant, Frederick S., Naugatuck, Conn. Fastening device. No. 1,303,118; May 6; v. 262; p. 122.
- Sargent, Allston, assignor to H. A. Sargent, East Orange, N. J. Substitute for ball for indoor golf. No. 1,293,941; Feb. 11; v. 259; p. 255.
- Sargent, Allston, East Orange, N. J. Golf-club attachment. No. 1,302,860; May 6; v. 262; p. 73.
- Sargent, Charles E., assignor to Midwest Engine Company, Indianapolis, Ind. Dust-separator. No. 1,302,716; May 6; v. 262; p. 44.
- Sargent & Company. (See Dunn, Peter S., assignor.)
- Sargent & Company. (See Page, Albert A., assignor.)
- Sargent & Company. (See Raymond, Charles F., assignor.)
- Sargent & Company. (See Sargent, Edward R., assignor.)
- Sargent & Company. (See Shaw, John H., assignor.)
- Sargent & Company. (See Voight, Henry G., assignor.)
- Sargent & Company. (See Voight and Page, assignors.)
- Sargent & Company. (See Weller, George, assignor.)
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,301,176; Apr. 22; v. 261; p. 655.
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,311,291; July 29; v. 264; p. 734.
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,311,292; July 29; v. 264; p. 734.
- Sargent, Frank P., San Francisco, Calif. Aeroplane Safety Device. No. 1,314,220; Aug. 26; v. 265; p. 532.
- Sargent, Frederick, and H. C. Heaton, Chicago, Ill., assignors to Babcock & Wilcox Company, Bayonne, N. J. Apparatus for washing waste gases and utilizing the heat thereof. No. 1,291,175; Jan. 14; v. 258; p. 302.
- Sargent, Frederick, and H. C. Heaton, Chicago, Ill., assignors to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,311,467; July 29; v. 264; p. 767.
- Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Conveying device for wool-driers. No. 1,301,177; Apr. 22; v. 261; p. 655.



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- Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Granthville, Mass. Drier. No. 1,311,250; July 29; v. 264; p. 727.
- Sargent and Ham Company. (See Paradis and McCoubrey, assignors.)
- Sargent, Harriett A. (See Sargent, Allston, assignor.)
- Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Locking-plug for receptacles and the like. No. 1,310,138; July 15; v. 264; p. 458.
- Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Plug-receptacle for use with rugs. No. 1,313,120; Aug. 12; v. 265; p. 273.
- Sargent, Lemuel H., Fort Worth, Tex. Device for cleaning wells. No. 1,314,833; Sept. 2; v. 266; p. 67.
- Sargent, Lester L. (See Butler, Edward M., assignor.)
- Sargent, Ralph N., Perth Amboy, N. J., assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Molding. No. 1,313,558; Aug. 19; v. 265; p. 373.
- Sargent, Walter E., Montreal, Quebec, Canada. Die-sinking machine. No. 1,317,038; Sept. 23; v. 266; p. 545.
- Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Gearing. No. 1,320,577; Nov. 4; v. 268; p. 41.
- Sargent, William H., assignor to Wayne Manufacturing Company, St. Louis, Mo. Operating mechanism for washing-machines. No. 1,322,627; Nov. 25; v. 268; p. 594.
- Sargent, William K., Kissimmee, Fla. Stanchion-operator. No. 1,298,102; Mar. 25; v. 260; p. 593.
- Saris, Joseph H., Beloit, Wis. Driving-belt. No. 1,312,580; Aug. 12; v. 265; p. 168.
- Sarlandt, Oscar J., San Francisco, Calif. Double-cutting planer-tool holder. No. 1,319,250; Oct. 21; v. 267; p. 390.
- Sarnoff, Simon, New York, N. Y. Shipping-receptacle. No. 1,302,472; Apr. 29; v. 261; p. 935.
- Sarr, Orr E., Sandusky, Ohio. Electric boiler. No. 1,309,697; July 15; v. 264; p. 378.
- Sarron, Paul F., and J. Simon, Lyon, France. Electro-converter-furnace. No. 1,325,114; Dec. 16; v. 269; p. 463.
- Sartain, Louis M., assignor of three-tenths to W. R. Curtis, one-tenth to G. P. Dykes, one-tenth to J. J. Givens, one-tenth to J. A. Goforth, and one-tenth to T. M. Lockhart, Coalmont, Tenn. Rail-joint. No. 1,314,151; Aug. 26; v. 265; p. 518.
- Sartor, Gregory, Perkins township, Erie county, Ohio. Device for cleaning windows and other finished surfaces. No. 1,299,785; Apr. 8; v. 261; p. 295.
- Sartorius, Oton, J. P. Gándara, and R. Colonna, El Paso, Tex. Film for cameras. No. 1,312,052; Aug. 5; v. 265; p. 37.
- Sasgen, Michael J., Chicago, Ill. Dumping-wagon and the like. No. 1,322,958; Nov. 25; v. 268; p. 655.
- Sass, August H., Milwaukee, Wis. Window-scaffold. No. 1,312,755; Aug. 12; v. 265; p. 201.
- Sater, Archie G., Enid, Okla. Luggage-carrier. No. 1,293,557; Feb. 4; v. 259; p. 136.
- Sather, Edmund O., Berkeley, Calif. Spark-plug. No. 1,299,040; Apr. 1; v. 261; p. 97.
- Sather, Edmund O., Oakland, Calif. Control mechanism for carbureters. No. 1,307,704; June 24; v. 263; p. 556.
- Satlow, Joseph. (See Koretzky, Harry M., assignor.)
- Sato, Natsuo, San Francisco, Cal. Illuminated aquarium. No. 1,297,254; Mar. 11; v. 260; p. 358.
- Sato, Ryuji, New York, N. Y. Calendar. No. 1,315,864; Sept. 9; v. 266; p. 263.
- Satow, Sadakichi, Sendai, Japan. Manufacturing vegetable proteid substances. No. 1,321,479; Nov. 11; v. 268; p. 276.
- Satow, Sadakichi, Sendai, Japan. Manufacturing vegetable proteid substances. No. 1,321,480; Nov. 11; v. 268; p. 276.
- Satow, Tokusaburo, Los Angeles, Cal. Grape-cutter. No. 1,291,176; Jan. 14; v. 258; p. 303.
- Satze, Knute S., Hecla, S. D. Parachute. No. 1,308,375; July 1; v. 264; p. 67.
- Satterlee, Percy, Detroit, Mich. Metal-bending device. No. 1,319,798; Oct. 28; v. 267; p. 517.
- Sattler, Hans, Sheboygan, Wis. Vibration-recorder. No. 1,309,813; July 15; v. 264; p. 399.
- Sattler, Hans, Sheboygan, Wis. Travel-recording device. No. 1,320,097; Oct. 28; v. 267; p. 573.
- Sattler, Henry W., assignor to The Holson & Motzer Co., Meriden, Conn. Cover support. No. 1,300,027; Apr. 8; v. 261; p. 347.
- Sattler, John H., San Francisco, Calif. Combined coal and gas stove. No. 1,317,397; Sept. 30; v. 266; p. 649.
- Sattley, Frederick L., and F. N. Ross, assignors to General Metals Company, Detroit, Mich. Thread-milling machine. No. 1,325,584; Dec. 23; v. 269; p. 567.
- Satz, Frank, Reading, Pa. Radiator. No. 1,301,608; Apr. 22; v. 261; p. 758.
- Sauber, Robert, Hammersmith, London, England. Imitation of oil paintings and like pictures. No. 1,293,942; Feb. 11; v. 259; p. 256.
- Sauerbrunn, Arthur B. J., Brooklyn, N. Y. Noiseless antiphon self-cleaning trap. No. 1,323,324; Dec. 2; v. 269; p. 19.
- Sauers, Harry J., Greeley, Colo. Wheel-holder. No. 1,319,536; Oct. 21; v. 267; p. 444.
- Saul, Jerome D., Columbus, Ohio. Fuel-generator for explosive-engines. No. 1,292,653; Jan. 28; v. 258; p. 710.
- Sauls, Rufus D., Lake Park, Ga. Multiple-passage reflector. No. 1,290,363; Jan. 7; v. 258; p. 84.
- Sault, William A., Worcester, Mass. Straightway double-acting valve. No. 1,314,609; Sept. 2; v. 266; p. 25.
- Saum, Robert J., assignor to The Western Tool & Manufacturing Company, Springfield, Ohio. Tool-holder. No. 1,313,336; Aug. 19; v. 265; p. 330.
- Saunders, Addison T., Chicopee, Mass. Apparatus for testing complex liquids. No. 1,307,601; June 24; v. 263; p. 537.
- Saunders, Addison T., Chicopee, Mass. Producing colored motion-picture films. No. 1,317,825; Oct. 7; v. 267; p. 31.
- Saunders, Augustus M. (See Boyd and Saunders.)
- Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Price-tagging means. No. 1,297,405; Mar. 18; v. 260; p. 420.
- Saunders, Clarence R. (See Alexander, George D., assignor.)
- Saunders, Clifton F., Ancon, Canal Zone. Mechanical photograph and blue-print drier. No. 1,301,750; Apr. 22; v. 261; p. 766.
- Saunders, Richard L., Hartford, Conn. Wheel. No. 1,311,468; July 29; v. 264; p. 768.
- Saunders, Richard N., Auckland, New Zealand. Milking-machine. No. 1,307,929; June 24; v. 263; p. 597.
- Saunders, Samuel, Manchester, England. Fire-lighting apparatus. No. 1,292,521; Jan. 28; v. 258; p. 677.
- Saunderson, Herbert P., Bedford, England. Draw-bar for motor-tractors. No. 1,291,177; Jan. 14; v. 258; p. 303.
- Sauper, Frank S., Chicago, Ill. Game apparatus. No. 1,319,799; Oct. 28; v. 267; p. 517.
- Saurer, Adolph. (See Laessker, Jean, assignor.)
- Saurer, Firm of Adolph. (See Schlatter, Gustav, assignor.)
- Saus, Juan, Barcelona, Spain. Carding. No. 1,303,833; May 13; v. 262; p. 281.
- Sausen, Peter J., Head of Jarvis' Inlet, British Columbia, Canada. Lifting-jack. No. 1,309,962; July 15; v. 264; p. 427.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack-adjuster. No. 1,298,571; Mar. 25; v. 260; p. 694.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack-adjuster. No. 1,298,572; Mar. 25; v. 260; p. 694.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack-adjuster. No. 1,298,573; Mar. 25; v. 260; p. 695.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack-adjuster. No. 1,298,574; Mar. 25; v. 260; p. 695.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack-adjuster. No. 1,298,575; Mar. 25; v. 260; p. 695.
- Sauvage, William H., Flushing, assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack-adjuster. No. 1,298,576; Mar. 25; v. 260; p. 695.
- Sauvage, William H., Flushing, assignor to The Atlantic Hand Brake Corporation, Buffalo, N. Y. Railway hand-brake. No. 1,306,635; June 10; v. 263; p. 635.
- Savage, Alfred L., Jr., New York, N. Y. Atomizer. No. 1,294,835; Feb. 18; v. 259; p. 500.
- Savage Arms Corporation. (See Nelson, Charles A., assignor.)
- Savage, Arthur J., San Diego, Calif. Firearm. No. 1,320,578; Nov. 4; v. 268; p. 41.
- Savage, Arthur J., and H. I. Morris, assignors to The Savage Tire Company, San Diego, Calif. Tire-finishing stand. No. 1,317,526; Sept. 30; v. 266; p. 674.
- Savage, Arthur W. (See Savage, Basil, assignor.)
- Savage, Basil, assignor to A. W. Savage, San Diego, Calif. Receptacle and closure therefor. No. 1,318,112; Oct. 7; v. 267; p. 85.
- Savage, Bertram E., Worcester, and L. H. Miner, Haverhill, Mass. Apparatus for treating surfaces of roads. No. 1,320,029; Oct. 28; v. 267; p. 560.
- Savage, Edwin H., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Unit for track-belts. No. 1,317,896; Oct. 7; v. 267; p. 15.
- Savage, Frederick, London, England. Manufacturing tone-arms for talking-machines and the like. No. 1,313,559; Aug. 19; v. 265; p. 373.
- Savage, Harold A. (See Challenger and Savage.)
- Savage, Howard E., Boston, Mass. Vehicle. No. 1,311,420; July 29; v. 264; p. 759.
- Savage, Paris L., and H. E. Morton, Bisbee, Ariz. Air-pump. No. 1,310,876; July 22; v. 264; p. 625.
- Savage, Theodore S., Oakland, Calif. Gasolene-gage. No. 1,314,983; Sept. 2; v. 266; p. 94.
- Savage Tire Company, The. (See Morris, Howard I., assignor.)
- Savage Tire Company, The. (See Savage and Morris, assignors.)



- Savery, Robert E., Knox, Ind. Resilient wheel. No. 1,295,214; Feb. 25; v. 259; p. 610.
- Savery, William H. (See Parsons, John H., assignor.)
- Savignac, Avila, Joliet, Quebec, Canada. Haycocking-machine. No. 1,290,364; Jan. 7; v. 258; p. 84.
- Saville, Douglas H. (See Phillips, Willis E., assignor.)
- Savitsky, Constantine, Denver, Colo. Heater attachment for lamps. No. 1,316,979; Sept. 23; v. 266; p. 534.
- Savitsky, Constantine, Denver, Colo. Lamp attachment. No. 1,316,980; Sept. 23; v. 266; p. 534.
- Savorgnan, Detalmo di B., S. Margherita, Italy. Recording-evaporimeter. No. 1,299,041; Apr. 1; v. 261; p. 98.
- Savy, Emile L. A., Paris, France. Coating-machine. No. 1,309,106; July 8; v. 264; p. 231.
- Sawasaki, Kichinosuke, East San Pedro, Calif. Bicycle-seat cover. No. 1,322,959; Nov. 25; v. 268; p. 655.
- Sawdon, Joseph, Quincy, Ill. Duplex envelop. No. 1,303,968; May 20; v. 262; p. 344.
- Sawtell, Albert H., Providence, R. I. Thread-controller device. No. 1,313,919; Aug. 26; v. 265; p. 474.
- Sawtelle, Charles A., assignor of one-half to S. J. Porter, Detroit, Mich. Internal-combustion engine. No. 1,305,172; May 27; v. 262; p. 608.
- Sawtelle, Edmund M., Englewood, N. J., assignor to Shawnee Mower Company, Shawnee-on-Delaware, Pa. Lawn-mower. No. 1,320,098; Oct. 28; v. 267; p. 573.
- Sawyer, Burnside E., Fitchburg, Mass. Pointing rods. No. 1,304,810; May 27; v. 262; p. 541.
- Sawyer, Everett B. (See Munger, Melvin L., assignor.)
- Sawyer, Howard I., Pomeroy, Wash. Gasolene-motor. No. 1,316,192; Sept. 16; v. 266; p. 338.
- Sawyer Products Company. (See Frothingham and Sawyer, assignors.)
- Sawyer, Ralph U. (See Frothingham and Sawyer.)
- Sawyer, Roy C., and J. W. West, Pasadena, Calif. Gold washing and accumulating device. No. 1,298,577; Mar. 25; v. 260; p. 695.
- Sawyer, Walter H., Auburn, Me. Log chute and entrance. No. 1,290,668; Jan. 7; v. 258; p. 159.
- Sawyer, Walter H., Philadelphia, Pa., assignor to The Arcus Ticket Co., Chicago, Ill. Sales-slip holder. (Re-issue.) No. 14,739; Oct. 21; v. 267; p. 472.
- Sawyer, Willard N., assignor to W. M. Whitney, Winchendon, Mass. Wood-planing machine. No. 1,302,717; May 6; v. 262; p. 45.
- Sawyer, Willard N., assignor to W. M. Whitney, Winchendon, Mass. Wood-scraping machine and the like. No. 1,302,718; May 6; v. 262; p. 45.
- Sawyer, William F., Racine, Wis. Nostril-dilator. No. 1,292,083; Jan. 21; v. 258; p. 551.
- Saxe, Andrew C., Waterbury, and J. L. Saxe, Winsted, Conn. Tire-mender. No. 1,320,416; Nov. 4; v. 268; p. 11.
- Saxe, John L. (See Saxe, Andrew C. and J. L.)
- Saxe, Sigmond, New York, N. Y. Tanning process. No. 1,297,255; Mar. 11; v. 260; p. 359.
- Saxe, Sigmond, New York, N. Y. Tanning process. (Re-issue.) No. 14,719; Aug. 26; v. 265; p. 584.
- Saxon, Frank, Worthington, Minn. Tractor-hitch. No. 1,319,421; Oct. 21; v. 267; p. 423.
- Saxon, Herman R., and G. Ganzert, assignors to The Saxon Manufacturing Company, Toledo, Ohio. Fuel-feeding device. No. 1,325,701; Dec. 23; v. 269; p. 589.
- Saxon Manufacturing Company, The. (See Saxon and Ganzert, assignors.)
- Saxton, Albert H., and J. J. Bachmayer, assignors to National Bundle Tyer Company, Blissfield, Mich. Needle-release for bundle-tying machines. No. 1,322,628; Nov. 25; v. 268; p. 594.
- Saxton, Augustus C., and H. J. Menard, assignors to W. R. Dawes, trustee, Chicago, Ill. Lock for controlling-levers. No. 1,302,976; May 6; v. 262; p. 95.
- Saxton, Augustus C., and H. J. Menard, assignors to H. R. Manufacturing Company, Chicago, Ill. Lock for controlling-levers. No. 1,320,800; Nov. 4; v. 268; p. 83.
- Say, William, London, England. Bit. No. 1,308,609; July 1; v. 264; p. 110.
- Saybolt, Chester A., assignor to Lockwood Folding Box Company, Philadelphia, Pa. Easel display-carton. No. 1,296,223; Mar. 4; v. 260; p. 93.
- Saybolt, Chester A., assignor to Lockwood Folding Box Company, Philadelphia, Pa. Easel-display carton. No. 1,322,629; Nov. 25; v. 268; p. 594.
- Saye, John F. (See Franklin, John E., assignor.)
- Sayer, George J. (See Peterson, John M., assignor.)
- Sayer, John, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,292,378; Jan. 21; v. 258; p. 622.
- Sayers, Albert J., assignor to Link-Belt Company, Chicago, Ill. Automatic hutch device for jigs. No. 1,292,379; Jan. 21; v. 258; p. 622.
- Sayles, Clement L., et al. (See Cornu, Louis E., assignor.)
- Sayles, Frank A., et al. (See Flick, Lorenz, assignor.)
- Sayles, Frederick, Chicago, Ill. Shaving article. No. 1,292,084; Jan. 21; v. 258; p. 552.
- Saylor, Ernest F., Ilwaco, Wash. Carbureter. No. 1,299,622; Apr. 8; v. 261; p. 257.
- Saylor, Franklin G., Quincy, assignor of one-fourth to G. A. Lufkin, Revere, Mass. Air-heating apparatus. No. 1,326,534; Dec. 30; v. 269; p. 782.
- Saylor, John F., Dodge City, Kans. Wrench. No. 1,312,456; Aug. 5; v. 265; p. 113.
- Sayre, James W., assignor of one-third to G. Veith, Newport, Ky. Automatic train-stopping device. No. 1,295,071; Feb. 18; v. 259; p. 554.
- Sayre, Ralph, and E. Yanovsky, Washington, D. C. Removing nicotin from tobacco. No. 1,294,310; Feb. 11; v. 259; p. 342.
- Sayre, Robert H., Central City, Colo. Aerial navigation protractor. No. 1,296,704; Mar. 11; v. 260; p. 236.
- Sayward, Joseph R., Lancaster, N. H. Balanced valve. No. 1,321,673; Nov. 11; v. 268; p. 312.
- Scaglione, Alexander. (See Oliva and Scaglione.)
- Scalzi, Robert F., Trenton, N. J. Radius-rod. No. 1,306,562; June 10; v. 263; p. 281.
- Scanes, Arthur E. L., Ashton-upon-Mersey, assignor to The British Westinghouse Electric & Manufacturing Company, Limited, London, England. Steam-condenser of the jet or contact type. No. 1,307,705; June 24; v. 263; p. 556.
- Scanlan, George H., New York, N. Y. Tractor. No. 1,324,694; Dec. 9; v. 269; p. 323.
- Scanlan, Patrick M., Brooklyn, N. Y. Air-pump. No. 1,301,751; Apr. 22; v. 261; p. 766.
- Scanlan, Patrick M., Brooklyn, N. Y. Pump. No. 1,314,707; Sept. 2; v. 266; p. 44.
- Scanlon, Thomas J., El Paso, Tex. Derrick. No. 1,313,741; Aug. 19; v. 265; p. 407.
- Scannell, Albert T., Chicago, Ill. Mechanical hoist for motor-vehicles. No. 1,307,154; June 17; v. 263; p. 422.
- Scapicchio, Anthony, Arlington, N. J. Adjustable quadrat for printing-presses. No. 1,300,028; Apr. 8; v. 261; p. 447.
- Scarborough, Charles F., Mount Gilead, N. C. Bottle-cap remover and alarm. No. 1,307,519; June 24; v. 263; p. 523.
- Scarborough, George G., Girdletree, Md. Stove. No. 1,295,606; Feb. 25; v. 259; p. 701.
- Scarborough, Henry. (See Steere, Clarence E., assignor.)
- Scarborough, John C. (See Woolverton, William H., assignor.)
- Scarborough, Plummer D., Syracuse, N. Y. Novelty-holder. No. 1,326,099; Dec. 23; v. 269; p. 663.
- Scarlett, William E., East Lynn, and C. F. Adams, North Beverly, assignors to Hamel Shoe Machinery Company, Lynn, Mass. Lasting-machine. No. 1,313,121; Aug. 12; v. 265; p. 274.
- Scarr, Francis J., Hasbrouck Heights, N. J. Combined sight and clinometer. No. 1,316,391; Sept. 16; v. 266; p. 375.
- Scarritt Car Seat and Manufacturing Company. (See Taylor, Calvin C., assignor.)
- Scarseth, Edwin J., Galesville, Wis. Compound tool. No. 1,324,323; Dec. 9; v. 269; p. 251.
- Scartsaris, James P., Waterbury, Conn. Track construction. No. 1,302,977; May 6; v. 262; p. 95.
- Schaaf, Wayne D., Aurora, Colo. Combination horn and light. No. 1,290,366; Jan. 7; v. 258; p. 84.
- Schaaff, John T., Washington, D. C. Paper-perforating machine. No. 1,300,491; Apr. 15; v. 261; p. 473.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Trolley-hanger. No. 1,293,943; Feb. 11; v. 259; p. 256.
- Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. No. 1,296,587; Mar. 4; v. 260; p. 172.
- Schaap, Alexander K., Brooklyn, N. Y. Apparatus for making piston-rings. No. 1,325,659; Dec. 23; v. 269; p. 582.
- Schaben, Joseph. (See Blomster and Schaben.)
- Schachat, Abraham. (See Boynton and Schachat.)
- Schachat, Abraham, Brooklyn, assignor to Slocum, Avram & Slocum, Laboratories, Inc., New York, N. Y. Square. No. 1,306,722; June 17; v. 263; p. 344.
- Schachat, Abraham, Brooklyn, assignor to Slocum, Avram & Slocum Laboratories, Inc., New York, N. Y. Sine-bar. No. 1,308,451; July 1; v. 264; p. 81.
- Schacht, William F., Huntington, Ind. Milk-bottle stopper. No. 1,320,277; Oct. 28; v. 267; p. 606.
- Schachter, Nathan, Chicago, Ill. Shock-absorber. No. 1,307,759; June 24; v. 263; p. 566.
- Schachter, Nathan, Chicago, Ill. Shock-absorber. No. 1,307,835; June 24; v. 263; p. 580.
- Schachter, Nathan, Chicago, Ill. Shock-absorber. No. 1,311,531; July 29; v. 264; p. 780.
- Schachter, Nathan, Chicago, Ill. Shock-absorber and auxiliary spring. No. 1,326,467; Dec. 30; v. 269; p. 769.
- Schack, William, New York, N. Y. Automatically-operated foot-pedal for player-pianos. No. 1,304,605; May 27; v. 262; p. 503.
- Schad, Jacob, Bloomington, Ill. Detachable eaves-trough. No. 1,313,742; Apr. 19; v. 265; p. 407.
- Schader, Carl F., et al. (See Evans, Newton, assignor.)
- Schaefer, Arthur E., Saginaw, Mich. Extracting salt from natural brines. No. 1,297,737; Mar. 18; v. 260; p. 491.
- Schaefer, Frederic, Pittsburgh, Pa. Connecting-bar. No. 1,309,220; July 8; v. 264; p. 251.
- Schaefer, Gustav, Worcester, Mass. Cleaner for garnetting-machines. No. 1,311,293; July 29; v. 264; p. 735.
- Schaeffer, Benno. (See Adams and Schaeffer.)
- Schaeffer, William E., Duluth, Minn. Tank-heater joint. No. 1,307,706; June 24; v. 263; p. 556.



## Alphabetical list of patentees—Continued.

- Schaeffers, Joseph, Lakewood, Ohio. Variable-displacement piston for internal-combustion engines. No. 1,310,446; July 22; v. 264; p. 545.
- Schaetzke, Ferdinand A., assignor to French Wax Figure Company, Milwaukee, Wis. Display-figure. No. 1,319,800; Oct. 28; v. 267; p. 517.
- Schafer, Cella L. and I. Arnow, New York, N. Y. Supporter for electric-globe shades. No. 1,296,433; Mar. 4; v. 260; p. 138.
- Schafer, John C. F., Mount Pulaski, Ill. Damper. No. 1,296,857; Mar. 11; v. 260; p. 271.
- Schäfer, Max. (See Kratz and Schäfer.)
- Schafer, William F. (See Thomas, John F., assignor.)
- Schaff, George M., Cleveland, Ohio. Record-cabinet. No. 1,302,719; May 6; v. 262; p. 45.
- Schaffer, Andreas, New York, N. Y. Slicing-machine. No. 1,291,178; Jan. 14; v. 258; p. 303.
- Schaffer, August C., Salem, Oreg. Trailer. No. 1,316,193; Sept. 16; v. 266; p. 338.
- Schaffer, Jacob, Brooklyn, N. Y. Boiler-handle. No. 1,312,135; Aug. 5; v. 265; p. 54.
- Schaffer, John C. (See Crow and Schaffer.)
- Schaffer, John C., Tiffin, Ohio. Supply mechanism. No. 1,301,978; Apr. 29; v. 261; p. 841.
- Schaffer, John C., Tiffin, Ohio. Kiln. No. 1,318,806; Oct. 14; v. 267; p. 279.
- Schaffer, John C., Tiffin, Ohio. Material-flow-controlling mechanism. No. 1,324,930; Dec. 16; v. 269; p. 429.
- Schaffer, Theodore A., assignor to Interstate Elastic Braid Company, Brooklyn, N. Y. Clasp for armbands and the like. No. 1,300,198; Apr. 8; v. 261; p. 385.
- Schaffert, Louis, Brooklyn, and S. G. Conkling, New York, N. Y. Gasolene and clutch lock for automobiles. No. 1,298,408; Mar. 25; v. 260; p. 658.
- Schalk, William, West Allis, Wis. Shipping-box. No. 1,316,194; Sept. 16; v. 266; p. 338.
- Schall, Henry D., and R. W. Davenport, assignors to Detroit Stove Works, Detroit, Mich. Gas-range. No. 1,299,623; Apr. 8; v. 261; p. 257.
- Schaller, Jacob J., Chicago, Ill. Revolving door. No. 1,295,607; Feb. 25; v. 259; p. 701.
- Schanil, Fred H., Gahern, Alberta, Canada. Tractor attachment. No. 1,296,434; Mar. 4; v. 260; p. 138.
- Schank, Arthur W., Camden, N. J. Grease-injector for filling differential-gear casings. No. 1,318,414; Oct. 14; v. 267; p. 205.
- Schanno, Joseph A., Brooklyn, N. Y. Wrench. No. 1,295,072; Feb. 18; v. 259; p. 554.
- Schanno, Joseph A., Brooklyn, N. Y. Apparatus for removing cylinder-linings. No. 1,315,865; Sept. 9; v. 266; p. 263.
- Schantz, Edwin M., Chicago, Ill., assignor to The Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,292,085; Jan. 21; v. 258; p. 552.
- Schantz, Edwin M., Chicago, Ill. Service-time checker. No. 1,299,236; Apr. 1; v. 261; p. 141.
- Schantz, Edwin M., Chicago, Ill., assignor to The Computing Scale Company, Dayton, Ohio. Computing recording-scale. No. 1,299,786; Apr. 8; v. 261; p. 295.
- Schantz, Edwin M., Dayton, Ohio. Indicating means for teaching music. No. 1,324,274; Dec. 9; v. 269; p. 242.
- Schantz, Edwin M., Detroit, Mich. Instructing-indicator for musical instruments. No. 1,324,275; Dec. 9; v. 269; p. 242.
- Schantz, Edwin M., Chicago, Ill. Instructing-indicator for musical instruments. No. 1,324,276; Dec. 9; v. 269; p. 243.
- Schantz, Edwin M., Chicago, Ill. Instruction device for musical instruments. No. 1,324,277; Dec. 9; v. 269; p. 243.
- Schanze, G. A. (See Jencick, Stephen, assignor.)
- Schaper, Henry C., assignor to The General Automatic Scale Company, St. Louis, Mo. Scale-beam lock and switch-operating device. No. 1,297,738; Mar. 18; v. 260; p. 491.
- Schar, Ferdinand, Schwachat, near Vienna, and R. Theumor, Vienna, Austria. Friction-driven press. No. 1,321,945; Nov. 18; v. 268; p. 414.
- Schärer, Arnold, New York, N. Y. Marcel waver. No. 1,319,180; Oct. 21; v. 267; p. 377.
- Scharnberg, Nanning M., Michigan City, Ind. Fruit-jar wrench and holder. No. 1,299,511; Apr. 8; v. 261; p. 231.
- Scharf, John A., Richwood, Ohio. Corn-drier. No. 1,319,422; Oct. 21; v. 267; p. 423.
- Scharun, William, Sr., Milwaukee, Wis. Foot-measure. No. 1,297,500; Mar. 18; v. 260; p. 439.
- Scharwath, John A. (See Burkhardt, Curt R., assignor.)
- Scharwath, John A., Elizabeth, N. J. Roofing material. No. 1,296,324; Mar. 4; v. 260; p. 115.
- Scharwath, John A., Elizabeth, N. J. Insulating material. No. 1,318,463; Oct. 14; v. 267; p. 214.
- Schatman, Joe. (See Fader, Schatman, and Goldberg.)
- Schatz, Fredrick A., Philadelphia, Pa. Weather-strip. No. 1,322,732; Nov. 25; v. 268; p. 613.
- Schatz, Grover H., et al. (See Schatz, John W., assignor.)
- Schatz, Herman A., et al. (See Schatz, John W., assignor.)
- Schatz, Herman W., Norwood, and A. M. Sosa, assignors to The American Tool Works Company, Cincinnati, Ohio. Drilling-machine. No. 1,297,256; Mar. 11; v. 260; p. 359.
- Schatz, Herman W., Norwood, assignor to The American Tool Works Company, Cincinnati, Ohio. Drilling-machine. No. 1,297,257; Mar. 11; v. 260; p. 359.
- Schatz, John W., assignor of one-third to H. A. Schatz and one-third to G. H. Schatz, Poughkeepsie, N. Y. Manufacturing antifriction-bearings. No. 1,301,323; Apr. 22; v. 261; p. 685.
- Schatz, John W., assignor of one-third to H. A. Schatz and one-third to G. H. Schatz, Poughkeepsie, N. Y. Antifriction-bearing. No. 1,301,752; Apr. 22; v. 261; p. 767.
- Schatz, John W., assignor of one-third to H. A. Schatz and one-third to G. H. Schatz, Poughkeepsie, N. Y. Antifriction-bearing. No. 1,324,756; Dec. 9; v. 269; p. 335.
- Schatzel, Albert F., San Diego, Calif. Piano-key. No. 1,319,801; Oct. 28; v. 267; p. 518.
- Schaub, Jacob, Newark, N. J., assignor to American Linseed Company. Apparatus for containing and consuming fuel. No. 1,305,671; June 3; v. 263; p. 84.
- Schaub, Jacob, Newark, N. J., assignor to American Linseed Company. Artificial-fuel machine. No. 1,314,984; Sept. 2; v. 266; p. 94.
- Schaub, James A. (See Kennedy, James W., assignor.)
- Schaub, James A., et al. (See Kennedy, James W., assignor.) (Reissue.)
- Schaum, Otto W., Philadelphia, Pa., assignor to Fletcher Works, Incorporated. Loom. No. 1,296,702; Mar. 11; v. 260; p. 235.
- Schaumburg, Charles, assignor to The Handy Manufacturing Co., Seattle, Wash. Safety-razor sharpener. No. 1,291,179; Jan. 14; v. 258; p. 303.
- Schaumloeffel, Julius A., Buffalo, N. Y. Combined shade-roller and curtain-pole support. No. 1,326,424; Dec. 30; v. 269; p. 760.
- Schaus, George E., et al. (See Pocock, Frank, assignor.)
- Schaus, Susie A., et al. (See Pocock, Frank, assignor.)
- Scheble, Eugene S., Cleburne, Tex. Steering-gear. No. 1,320,278; Oct. 28; v. 267; p. 607.
- Schecher, John L. (See Young and Schecher.)
- Schechter, Bernard, St. Louis, Mo. Seat. No. 1,302,226; Apr. 29; v. 261; p. 837.
- Schedlbauer, Michael, Warren, Mich. Vehicle-wheel. No. 1,290,788; Jan. 7; v. 258; p. 186.
- Scheel, George L., Chicago, Ill. Connecting device for electrical conductors. No. 1,324,278; Dec. 9; v. 269; p. 243.
- Scheel, George L., Chicago, Ill. Electrical connection. No. 1,324,279; Dec. 9; v. 269; p. 243.
- Scheibert, Rudolph H., Cincinnati, Ohio. Crane safety device. No. 1,304,381; May 20; v. 262; p. 421.
- Scheiblecker, Ferdinand, assignor to Salz Brothers, New York, N. Y. Fountain-pen of the self-filler type. No. 1,290,365; Jan. 7; v. 258; p. 84.
- Scheiblein, Rupert S., Merchantville, N. J. Machine for cleaning and waxing photographic films. No. 1,300,656; Apr. 15; v. 261; p. 508.
- Scheidenhelm, Frederick W., Pittsburgh, Pa. Construction of dams. No. 1,316,392; Sept. 16; v. 266; p. 376.
- Scheihing, George, Columbus, Nebr. Hay-stacker. No. 1,301,178; Apr. 22; v. 261; p. 656.
- Scheiner, Karl, Brooklyn, N. Y. Friction-clutch drive. No. 1,310,967; July 22; v. 264; p. 641.
- Scheiner, Karl P., Brooklyn, N. Y. Cycle-frame. No. 1,309,305; July 8; v. 264; p. 268.
- Scheinman, Isaac, New York, N. Y. Attachment device. No. 1,293,944; Feb. 11; v. 259; p. 256.
- Scheinman, William H., et al. (See Urdang, Jacob S., assignor.)
- Scheitler, Joseph, assignor of one-half to J. S. Heath, Chicago, Ill. Tablet, directory, and the like. No. 1,326,694; Dec. 30; v. 269; p. 811.
- Scheiwer, Albert. (See Nelson and Scheiwer.)
- Scheiwer, Albert T., et al. (See Ferguson, David, assignor.)
- Scheiwer, Joseph J., et al. (See Ferguson, David, assignor.)
- Schell, Peter J., Fort Worth, Tex. Aircraft propelling and manipulating. No. 1,325,702; Dec. 23; v. 269; p. 589.
- Schellenbach, William L., Wyoming, Ohio. Belt-shifting mechanism. No. 1,310,214; July 15; v. 264; p. 472.
- Schellenbach, William L., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Milling-machine. No. 1,317,990; Oct. 7; v. 267; p. 63.
- Schellenbach, William L., Hartwell, Ohio. Automatic lathe. No. 1,322,352; Nov. 18; v. 268; p. 490.
- Schellentrager, E. J., et al. (See Wilmore, Carlton A., assignor.)
- Schellentrager, Eugene W. (See Wright, Schellentrager, and Martin.)
- Schellentrager, J. Homer, et al. (See Wilmore, Carlton A., assignor.)
- Schenck, Charles, assignor to Budd Wheel Corporation, Philadelphia, Pa. Locking hub structure. No. 1,298,797; Apr. 1; v. 261; p. 43.
- Schenck, Charles, assignor to Budd Wheel Corporation, Philadelphia, Pa. Hub structure for wheels. No. 1,298,798; Apr. 1; v. 261; p. 43.
- Schenck, James K., Seattle, Wash. Disappearing window-screen. No. 1,314,221; Aug. 26; v. 265; p. 532.



- Schenck, Samuel B., Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,295,930; Mar. 4; v. 260; p. 24.
- Schenck, Wilkens A., Philadelphia, Pa. Drawing instrument. No. 1,292,086; Jan. 21; v. 258; p. 553.
- Schenck, Wilkens A., Philadelphia, Pa. Drawing-pen. No. 1,304,709; May 27; v. 262; p. 522.
- Schendel, Ernest J., Forest Park, Ill. Positioning device. No. 1,290,789; Jan. 7; v. 258; p. 187.
- Schendel, William E., assignor to Independent Cracker & Biscuit Co., San Francisco, Calif. Container. No. 1,297,739; Mar. 18; v. 260; p. 491.
- Schenk, Charles J., Runnington, Calif. Double-acting pump-head. No. 1,322,470; Nov. 18; v. 268; p. 513.
- Schenke, John. (See Tauber and Schenke.)
- Schenuit, Henry F., Pasadena, Cal. Tremolo attachment for stringed musical instruments. No. 1,292,087; Jan. 21; v. 258; p. 553.
- Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Fixture. No. 1,299,042; Apr. 1; v. 261; p. 98.
- Schepper, Adam. (See Sparling, Jacob J., assignor.)
- Scher, Louis, New York, N. Y., assignor, by mesne assignments, to Dictograph Products Corporation. Dictograph. No. 1,317,991; Oct. 7; v. 267; p. 63.
- Scheraga, Paul. (See Sommers and Scheraga.)
- Scherbner, Samuel H. E., New York, N. Y. Grating. No. 1,309,698; July 15; v. 264; p. 378.
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Device for locking register-frames in stack-head openings. No. 1,296,703; Mar. 11; v. 260; p. 236.
- Scherer, William F., Weston, Wyo. Railway-tie. No. 1,315,042; Sept. 2; v. 266; p. 104.
- Scherf, Marie. (See Scherf, Theodore, assignor.)
- Scherf, Theodore, assignor to M. Scherf, Cleveland, Ohio. Machine for webbing or reinforcing fabrics. No. 1,292,890; Jan. 28; v. 258; p. 765.
- Scherf, Theodore, assignor to The Cleveland-Akron Bag Company, Cleveland, Ohio. Machine for making multiply naper. No. 1,299,237; Apr. 1; v. 261; p. 141.
- Scherf, Henry H., assignor to American Metal Parts Co., Milwaukee, Wis. Tire-carrier. No. 1,321,794; Nov. 11; v. 268; p. 335.
- Scherman, Peter, Port Atkinson, Wis. Furnace-grate. No. 1,303,119; May 6; v. 262; p. 122.
- Schermann, Steffans. (See Krug and Scherman.)
- Schermerhorn, Edwards F., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,320,712; Nov. 4; v. 268; p. 65.
- Schermerhorn, Louis C., Paterson, N. J. String-anchorage for tuning-pegs. No. 1,295,215; Feb. 25; v. 259; p. 610.
- Schermyly, Augustus W. L., Sutton, England. Means for attaching ships' boats to and detaching them from tackle suspended from davits or the like. No. 1,319,492; Oct. 21; v. 267; p. 436.
- Scherrer, Jakob. (See Knecht and Scherrer.)
- Schetelig, Paul. (See Steinbuch and Schetelig.)
- Schettler, Wesley W., assignor to The Foos Gas Engine Company, Springfield, Ohio. Oil-reservoir for internal-combustion engines. No. 1,296,124; Mar. 4; v. 260; p. 71.
- Scheuer, Carrie. (See Scheuer, Maurice, assignor.)
- Scheuer, Maurice, New York, N. Y. Laminated fabric. No. 1,302,473; Apr. 29; v. 261; p. 935.
- Scheuer, Maurice, assignor to C. Scheuer, New York, N. Y. Leather substitute. No. 1,291,180; Jan. 14; v. 258; p. 304.
- Scheunemann, Edward W. A., New Haven, Mich. Hayrack for vehicles. No. 1,316,195; Sept. 16; v. 266; p. 338.
- Scheunemann, Edward W. A. and P. W., New Haven, Mich. Agricultural implement. No. 1,325,703; Dec. 23; v. 269; p. 590.
- Scheunemann, Paul W. (See Scheunemann, Edward W. A. and P. W.)
- Schevenell, James, New York, N. Y. Protective binding for collars. No. 1,297,501; Mar. 18; v. 260; p. 440.
- Schevitz, Carl, Jacksonville, Fla. Expandable shoe-last. No. 1,326,100; Dec. 23; v. 269; p. 663.
- Schewchuk, John, assignor of one-half to H. Kletzky, Hamilton Station, Saskatchewan, Canada. Ax. No. 1,318,612; Oct. 14; v. 267; p. 243.
- Schey, Max, Brooklyn, N. Y. Adjustable grid. No. 1,320,497; Nov. 4; v. 268; p. 26.
- Schiarizzi, Nicholas, West St. Paul, Minn. Railway-crossing. No. 1,323,411; Dec. 2; v. 269; p. 35.
- Schiavone, John, New York, N. Y. Side and end lock for drawers. No. 1,318,011; Oct. 7; v. 267; p. 67.
- Schick, George A., Philadelphia, Pa. Sewing-machine. No. 1,309,372; July 8; v. 264; p. 280.
- Schick, George A., Jr., Camden, N. J., assignor to F. Keller, Jr., Philadelphia, Pa. Reinforced structure and making same. No. 1,304,811; May 27; v. 262; p. 541.
- Schielendrein, Matyas, St. Louis, Mo. Wheat-scouring machine. No. 1,307,760; June 24; v. 263; p. 566.
- Schiemer, Charles J. (See Rollman and Schiemer.)
- Schiemer, Charles J., Mount Joy, Pa. Fruit-press. No. 1,317,667; Sept. 30; v. 266; p. 701.
- Schiemer, Charles J., Mount Joy, Pa. Cherry-seeder. No. 1,318,181; Oct. 7; v. 267; p. 99.
- Schiemer, Charles J., Mount Joy, Pa. Nutcracker. No. 1,318,182; Oct. 7; v. 267; p. 100.
- Schierse, Emil, assignor of one-half to E. C. Hayman, Chicago, Ill. Traveling hobby-horse. No. 1,325,046; Dec. 16; v. 269; p. 450.
- Schies, John, Anderson, Ind. Apparatus for feeding and delivering glass. No. 1,312,876; Aug. 12; v. 265; p. 225.
- Schies, John, Anderson, Ind. Closure for containers. No. 1,315,424; Sept. 9; v. 266; p. 183.
- Schifferle, Charles, Marysville, Calif. Centrifugal concentrator. No. 1,322,139; Nov. 18; v. 268; p. 449.
- Schiffert, Daniel M., Boston, assignor to S. B. Condit, Jr., Brookline, Mass. Circuit-breaker. No. 1,312,136; Aug. 5; v. 265; p. 54.
- Schiff, Charles, Montclair, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Stop mechanism for phonographs or talking-machines. No. 1,294,955; Feb. 18; v. 259; p. 528.
- Schiffmacher, George H., East Rockaway, N. Y. Tent-frame. No. 1,314,758; Sept. 2; v. 266; p. 53.
- Schilke, Fred, Oatman, Ariz. Auto-tire cover. No. 1,292,088; Jan. 21; v. 258; p. 553.
- Schiller, Eugene, Detroit, Mich. Dough-treating device. No. 1,304,104; May 20; v. 262; p. 368.
- Schiller, Lewis. (See Gibson, James, assignor.)
- Schiller, Maurice H., Chicago, Ill. Combined vest and belt attachment. No. 1,304,382; May 20; v. 262; p. 421.
- Schiller, Nathan. (See Petterson, Clarence A., assignor.)
- Schilling, Louis. (See Lutiger, Kaspar, assignor.)
- Schilling, George W., Philadelphia, Pa. Device for removing articles from shafts. No. 1,310,447; July 22; v. 264; p. 545.
- Schillinger, Linus J., Syracuse, N. Y. Means for locking can-covers. No. 1,308,197; July 1; v. 264; p. 35.
- Schimek, Richard. (See Grossman and Schimek.)
- Schimer, Baldwin F., New York, N. Y. Shock-absorber. No. 1,297,014; Mar. 11; v. 260; p. 307.
- Schimmel, David E., Brooklyn, N. Y. Adjustable shade-roller. No. 1,304,383; May 20; v. 262; p. 421.
- Schimmel, Fridolin, Faribault, Minn. Desk-table. No. 1,292,089; Jan. 21; v. 258; p. 553.
- Schimmel, Fridolin, Faribault, Minn. Leg-coupling. No. 1,292,090; Jan. 21; v. 258; p. 554.
- Schinke, Albert, assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,309,815; July 15; v. 264; p. 399.
- Schinscholl, Erich, Ashland, N. H., assignor to General Electric Company. Electric-lamp carrier. No. 1,313,337; Aug. 19; v. 265; p. 331.
- Schipper, Arie J., Alkmaar, Netherlands. Hoisting-machine. No. 1,317,322; Sept. 30; v. 266; p. 635.
- Schipper, Herman J., Roann, Ind. Hog-oiler. No. 1,302,979; May 6; v. 262; p. 95.
- Schirmer, Baldwin F., New York, N. Y. Making beer. No. 1,297,013; Mar. 11; v. 260; p. 307.
- Schirmer, James O. and W. P., Cleveland, Ohio. Fluid transmission or driving mechanism. No. 1,292,091; Jan. 21; v. 258; p. 554.
- Schirmer, James O., Cleveland, Ohio, assignor to The Viking Pump Company, Cedar Falls, Iowa. Automatic reversing device for rotary pumps. No. 1,307,602; June 24; v. 263; p. 537.
- Schirmer, Waldo P. (See Schirmer, James O. and W. P.)
- Schirra, Julius, Pittsburgh, Pa., assignor to Projectile Protector Company, Wilksburg, Del. Thread-protecting device. No. 1,303,402; May 13; v. 262; p. 202.
- Schissel, Louis, Brooklyn, N. Y. Tire-tread. No. 1,324,695; Dec. 9; v. 269; p. 323.
- Schkommodau, Gustave H., Cincinnati, Ohio, assignor to Thomson Electric Welding Company. Electric welding-machine. No. 1,290,367; Jan. 7; v. 258; p. 85.
- Schlacks, Henry J., Chicago, Ill. Package-receptacle. No. 1,292,092; Jan. 21; v. 258; p. 554.
- Schlacks, Joseph T., assignor to McCord Manufacturing Company, Detroit, Mich. Cellular radiator. No. 1,318,012; Oct. 7; v. 267; p. 67.
- Schlacks, William J., assignor to McCord and Company, Chicago, Ill. Force-feed lubricator. No. 1,307,988; June 24; v. 263; p. 608.
- Schlaegel, Albert H., assignor to Grapho-Metal Products Company, Indianapolis, Ind. Plastic packing and making same. No. 1,324,763; Dec. 9; v. 269; p. 336.
- Schlaegel, Daniel H., Wadena, Minn. Bunching attachment for potato-diggers. No. 1,296,562; Mar. 4; v. 260; p. 167.
- Schlage, Walter R., Berkeley, Calif. Door-lock. No. 1,313,920; Aug. 26; v. 265; p. 474.
- Schlanger, Frederick A., Brooklyn, N. Y. Book-rest. No. 1,297,015; Mar. 11; v. 260; p. 307.
- Schlatter, Erorath & Co. (See Schlatter, Jacob, assignor.)
- Schlatter, Gustav, Steinach, and G. Segin, Arbon, assignors to Firma Adolphe Saurer, Arbon, Switzerland. Regulating device for watering-carts and the like. No. 1,302,227; Apr. 29; v. 261; p. 887.
- Schlatter, Gustav, Steinach, assignor to Firm of A. Saurer, Arbon, Switzerland. Regulating device for road-sprinklers. No. 1,304,384; May 20; v. 262; p. 421.



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- Schlatter, Jacob, assignor to Schlatter Frorath & Co., Zurich, Switzerland. Device for producing hot air. No. 1,301,324; Apr. 22; v. 261; p. 685.
- Schlatter, Karl, Perth Amboy, N. J. Oxidation product of cumarin and indene. No. 1,294,836; Feb. 18; v. 259; p. 500.
- Schleit, Willis A., Syracuse, N. Y. Draft-regulator for heaters. No. 1,310,505; July 22; v. 264; p. 556.
- Schlekauf, Edward L., Whitedeer, S. D. Washboiler-rack. No. 1,324,696; Dec. 9; v. 269; p. 324.
- Schlenker, Friedrich, Fredonia, N. D. Combination article. No. 1,304,812; May 27; v. 262; p. 542.
- Schlesinger, Henry, assignor of three-fourths to W. J. Jaeger, New York, N. Y. Cooking utensil. No. 1,326,214; Dec. 30; v. 269; p. 721.
- Schlesinger, Louis. (See Hellweg, Henry, assignor.)
- Schless, Maurice J., New York, N. Y. Jewelry-setting. No. 1,319,251; Oct. 21; v. 267; p. 391.
- Schlichten, George W., San Diego, Calif. Means for treating fiber-bearing plants. No. 1,308,376; July 1; v. 264; p. 67.
- Schlichter, Walter F., Pottstown, and A. Keim, Spring City, Pa. Automatic railway safety-gate. No. 1,313,338; Aug. 19; v. 265; p. 331.
- Schlieder, Augustus E., assignor to Schlieder Manufacturing Co., Detroit, Mich. Stock-feeding mechanism. No. 1,305,672; June 3; v. 263; p. 84.
- Schlieder Manufacturing Co. (See Schlieder, Augustus E., assignor.)
- Schliek, Harry A. (See Field and Schliek.)
- Schilling, Frederick, Sr., Seattle, Wash. Toggle-bolt. No. 1,316,857; Sept. 23; v. 266; p. 511.
- Schilling, George W., Philadelphia, Pa. Device for removing articles from shafts. No. 1,317,944; Oct. 7; v. 267; p. 54.
- Schloemilch, Wilhelm, Berlin, Germany. Wave-detector. No. 1,294,177; Feb. 11; v. 259; p. 312.
- Schloerb, Albert P., assignor of one-third to A. H. Hammett and one-third to W. L. Pfefferkorn, Milwaukee, Wis. Extension-table slide. No. 1,305,310; June 3; v. 263; p. 16.
- Schloerb, Arthur H., assignor to The American Thread Company, New York, N. Y. Core for balls of yarn, &c. No. 1,294,178; Feb. 11; v. 259; p. 312.
- Schloss, Edwin G., New York, N. Y. Folding table. No. 1,312,137; Aug. 5; v. 265; p. 54.
- Schloss, Joseph W., New York, N. Y., assignor to Joseph W. Schloss Company. Hair-waver. No. 1,320,099; Oct. 28; v. 267; p. 573.
- Schloss, Meyer W., New York, N. Y., assignor to Treo Company, Incorporated. Girdle. No. 1,308,870; July 8; v. 264; p. 186.
- Schlossstein, Hans, Chicago, Ill. Apparatus for treating oils. No. 1,296,013; Mar. 4; v. 260; p. 44.
- Schluer, William M., Orange, N. J. Top or hood for vehicles. No. 1,311,717; July 29; v. 264; p. 814.
- Schlueter, Frank F., Watertown, Wis. Dental drill. No. 1,321,129; Nov. 11; v. 268; p. 208.
- Schlueter, Frank F., Watertown, Wis. Dental drill. No. 1,321,130; Nov. 11; v. 268; p. 209.
- Schlueter, Friedrich O., assignor of one-half to H. Schlueter, Scribner, Nebr. Ditcher and grader. No. 1,300,299; Apr. 15; v. 261; p. 433.
- Schlueter, Friedrich O., Scribner, Nebr. Drive means for ditchers and graders. No. 1,318,232; Oct. 7; v. 267; p. 110.
- Schlueter, Henry. (See Schlueter, Friedrich O., assignor.)
- Schluter, Hugo, Los Angeles, Calif. Post of concrete or other material. No. 1,299,787; Apr. 8; v. 261; p. 296.
- Schmacizle, John, Jr. (See Thierfelder and Schmacizle, Jr.)
- Schmalz, Alban, Chicago, Ill. Lace-tipping machine. No. 1,325,997; Dec. 23; v. 269; p. 644.
- Schmatolla, Ernst, New York, N. Y. Shaft-kiln. No. 1,304,514; May 20; v. 262; p. 447.
- Schmid, Albert, Long Beach, N. Y. Carbureter. No. 1,311,532; July 29; v. 264; p. 780.
- Schmid, Albert, Long Beach, and L. A. Merk, New York, N. Y.; said Merk assignor to said Schmid. Carbureter. No. 1,325,998; Dec. 23; v. 269; p. 644.
- Schmid, Albert, Long Beach, and L. A. Merk, New York, N. Y.; said Merk assignor to said Schmid. Carbureter. No. 1,325,999; Dec. 23; v. 269; p. 644.
- Schmid, Albert, Long Beach, N. Y. Carbureter. No. 1,326,000; Dec. 23; v. 269; p. 644.
- Schmid, Arthur, Zollikon, near Zurich, Switzerland. Tapping casks and other vessels. No. 1,317,731; Oct. 7; v. 267; p. 13.
- Schmid, Frederick, Denver, Colo., and F. E. Thomas, Oklahoma, Okla. Vehicle-reflector. No. 1,318,603; Oct. 14; v. 267; p. 241.
- Schmid, Herman, and G. Fuegel, assignors to Apollo Magneto Company, Inc., Brooklyn, N. Y. Magneto for internal-combustion engines. No. 1,303,600; May 13; v. 262; p. 238.
- Schmid, Louis E. (See Randall and Schmid.)
- Schmid, Peter, Basel, Switzerland. Producing foam or froth baths for ungumming silk and silk wastes. No. 1,313,235; Aug. 12; v. 265; p. 296.
- Schmid, Peter, Basel, Switzerland. Production of foam or froth baths for treating textile fibers and textile fabrics. No. 1,316,808; Sept. 23; v. 266; p. 502.
- Schmidbauer, William, Silverton, Ore. Portable circular saw. No. 1,291,181; Jan. 14; v. 258; p. 304.
- Schmidgall, Carl H., Peoria, Ill. Boring-tool. No. 1,297,740; Mar. 18; v. 260; p. 492.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Waterproof connection for spark-plugs. No. 1,298,799; Apr. 1; v. 261; p. 43.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,308,871; July 8; v. 264; p. 186.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug and forming same. No. 1,308,872; July 8; v. 264; p. 186.
- Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,319,423; Oct. 21; v. 267; p. 423.
- Schmidt, Albert H., Detroit, Mich. Method and apparatus for drying and stretching skins. No. 1,320,100; Oct. 28; v. 267; p. 574.
- Schmidt, Arthur A., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical treatment of gases. No. 1,309,221; July 8; v. 264; p. 252.
- Schmidt, August, Washington, D. C., assignor to G. Messop, Philadelphia, Pa. Finger-ring. No. 1,296,435; Mar. 4; v. 260; p. 138.
- Schmidt, Carl. (See Illias, Albert, assignor.)
- Schmidt, Charles G., C. Naegelen, and H. Kornmann, assignors to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Hog-scraper. No. 1,293,211; Feb. 4; v. 259; p. 54.
- Schmidt, Elden R. (See Schmidt, Henry J. and E. R.)
- Schmidt, Ernest E., Boston, Mass. Safety writing-ink. No. 1,296,858; Mar. 11; v. 260; p. 271.
- Schmidt, Ernest E., Covington, Ky. Check. No. 1,316,651; Sept. 23; v. 266; p. 473.
- Schmidt, Ernest H. (See Brooks and Schmidt.)
- Schmidt, Ernest H., Lakewood, assignor to The National Malleable Castings Company, Cleveland, Ohio. Shock-absorbing mechanism. No. 1,301,878; Apr. 29; v. 261; p. 822.
- Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Brake-handle. No. 1,304,606; May 27; v. 262; p. 503.
- Schmidt, Ernest H., and C. K. Brooks, assignors to The National Malleable Castings Company, Cleveland, Ohio. Coupling-shank and yoke connection. No. 1,291,182; Jan. 14; v. 258; p. 304.
- Schmidt, Francis J., Jr., Wauwatosa, assignor of one-half to H. J. Wagner, Milwaukee, Wis. Refrigerator. No. 1,325,585; Dec. 23; v. 269; p. 568.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine turbine. No. 1,298,103; Mar. 25; v. 260; p. 593.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Gear & Dynamometer Company. Thrust-bearing and dynamometer. No. 1,298,630; Mar. 25; v. 260; p. 706.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. No. 1,321,396; Nov. 11; v. 268; p. 260.
- Schmidt, Henry J. and E. R. Winesburg, Ohio. Razor-stropping device. No. 1,326,101; Dec. 23; v. 269; p. 663.
- Schmidt, Henry W., New York, N. Y. Aeronautical apparatus. No. 1,290,669; Jan. 7; v. 258; p. 159.
- Schmidt, Herman C. (See Bergman, Zakaria N., assignor.)
- Schmidt, Hugo F., Chicago, Ill. Tractor-linked track. No. 1,300,029; Apr. 8; v. 261; p. 348.
- Schmidt, Jacob, Portland, Ore. Feed-bag for horses. No. 1,303,403; May 13; v. 262; p. 202.
- Schmidt, Jesse, Tracy, Calif. Saw-oiler. No. 1,313,743; Aug. 19; v. 265; p. 407.
- Schmidt, John C., Chicago, Ill. Door check and closer. (Reissue.) No. 14,674; June 24; v. 263; p. 616.
- Schmidt, John E., and C. E. McArthur, Chicago, Ill. Apparatus for automatically controlling, starting, and stopping fluid-compressors. No. 1,324,324; Dec. 9; v. 269; p. 252.
- Schmidt, Karl, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Spark-gap apparatus. No. 1,314,152; Aug. 26; v. 265; p. 518.
- Schmidt, Karl C., and H. G. Lykken, Grand Forks, N. D. Clamp for surveyors' band-chains. No. 1,307,707; June 24; v. 263; p. 556.
- Schmidt, Lawrence S., assignor to Schmidt-McCormick Company, Pittsburgh, Pa. Water-cooled wall-support for furnaces. No. 1,300,882; Apr. 15; v. 261; p. 556.
- Schmidt, Lewis W., Schenectady, N. Y. Armored automobile. No. 1,317,323; Sept. 30; v. 266; p. 635.
- Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism for high-speed printing-machines. No. 1,317,224; Sept. 30; v. 266; p. 616.
- Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism for rotary printing-machines. No. 1,322,829; Nov. 25; v. 268; p. 631.
- Schmidt, Martin W., St. Louis, Mo. Flag-holder. No. 1,312,426; Aug. 5; v. 265; p. 108.
- Schmidt-McCormick Company. (See Schmidt, Lawrence S., assignor.)



- Schmidt, Oscar. (See Elsinger and Schmidt.)
- Schmidt, Oscar J., Bulverde, Tex. Wheel. No. 1,326,787; Dec. 30; v. 269; p. 830.
- Schmidt, Robert, Boston, Mass. Combined chair and ironing-board. No. 1,307,420; June 24; v. 263; p. 504.
- Schmidt, Sidney S. (See Faber, Guy S., assignor.)
- Schmidt, Valdemar. (See Kuffel, David C., assignor.)
- Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Process and apparatus for separating finely-divided materials. No. 1,298,409; Mar. 25; v. 260; p. 658.
- Schmidt, Walter A., and E. R. Wolcott, assignors to International Precipitation Company, Los Angeles, Calif. Process and apparatus for electrically accelerating chemical reactions. No. 1,307,930; June 24; v. 263; p. 597.
- Schmidt, Walter A., and E. R. Wolcott, assignors to International Precipitation Company, Los Angeles, Calif. Treating petroleum. No. 1,307,931; June 24; v. 263; p. 597.
- Schmidt, William A., Lewistown, Mont. Oil-can top. No. 1,320,932; Nov. 4; v. 268; p. 108.
- Schmidt, William E. (See Haman and Schmidt.)
- Schmidt, William F., Ridgewood, N. J. Filing units of intelligence. No. 1,305,939; June 3; v. 263; p. 135.
- Schmoele, William F., assignor to J. Mullenders, Antwerp, Belgium. Air-cooled cylinder and piston construction for high-heat explosion-motors. No. 1,315,686; Sept. 9; v. 266; p. 229.
- Schmidt, William F., Burlington, Iowa. Automatic stopping and starting mechanism for phonographs. No. 1,326,102; Dec. 23; v. 269; p. 664.
- Schmidt'sche Heissdampf Gesellschaft m. b. H. (See Eggers, Julius, assignor.)
- Schmidt, Henry, Jr. (See Harding, Lester E., assignor.)
- Schmitt, Edmund, Bridgeport, Conn. Transmission. No. 1,300,225; Apr. 8; v. 261; p. 391.
- Schmitt, Edward D., assignor, by mesne assignments, to The American Pure Food Process Company, Baltimore, Md. Means for retaining gaskets in jar-caps. No. 1,312,581; Aug. 12; v. 265; p. 168.
- Schmitt, Frederick J., Petoskey, Mich. Butcher's block. No. 1,323,915; Dec. 2; v. 269; p. 130.
- Schmitt, Herman, *et al.* (See Evers, William H., assignor.)
- Schmitt, John C., Chicago, Ill. Confection-molding machine. No. 1,297,917; Mar. 18; v. 260; p. 529.
- Schmitt, William J., Cleveland, Ohio. Dust-collector. No. 1,295,216; Feb. 25; v. 259; p. 610.
- Schmitz, Richard, Chicago, Ill., assignor to Schmitz Engine Company. Valve for hydrocarbon-engines. No. 1,312,003; Aug. 5; v. 265; p. 28.
- Schmitz, William R., Columbus, Ohio. Electric switch. No. 1,313,019; Aug. 12; v. 265; p. 254.
- Schmitz Engine Company. (See Schmitz, Richard, assignor.)
- Schmoele, William F., Antwerp, Belgium. Gearing. No. 1,323,613; Dec. 2; v. 269; p. 73.
- Schmoutz, Ferdinand A., Paris, France. Knight engine. No. 1,316,867; Sept. 23; v. 266; p. 513.
- Schmude, Charles H., *et al.* (See McLaughlin, William D., assignor.)
- Schmude, Otto R., *et al.* (See McLaughlin, William D., assignor.)
- Schneeman, Alfred J. (See Blanchard, Schneeman, and Minea.)
- Schneible, Frank, New York, N. Y. Tire. No. 1,312,582; Aug. 12; v. 265; p. 168.
- Schneible, Joseph, Chicago, Ill. Manufacture of beverages. No. 1,311,251; July 29; v. 264; p. 727.
- Schneible, Joseph, Chicago, Ill. Manufacture of ethyl alcohol and residue from beverage. No. 1,311,421; July 29; v. 264; p. 759.
- Schneider, Adolf, Brooklyn, N. Y. Wire-holder for electric welding. No. 1,316,334; Sept. 16; v. 266; p. 365.
- Schneider, Adolf J., Brooklyn, N. Y. Shoe. No. 1,294,179; Feb. 11; v. 259; p. 312.
- Schneider, Alfred. (See Schneider, William, assignor.)
- Schneider, Alwin, Lenzburg, Switzerland. Lathe-gearing. No. 1,313,955; Aug. 26; v. 265; p. 481.
- Schneider, Charles, *et al.* (See Shepard, Charles J., assignor.)
- Schneider, Charles C., assignor to J. H. Cutter, St. Louis, Mo. Catching device for cloth-piling machines. No. 1,308,766; July 8; v. 264; p. 167.
- Schneider, Charles E., Chicago, Ill. Non-skid chain and tire. No. 1,304,813; May 27; v. 262; p. 542.
- Schneider, Christian. (See Holdsworth, Arthur J., assignor.)
- Schneider, Christian F., *et al.* (See Reusz, Maximilian J., assignor.)
- Schneider & Cie. (See Paris, Arthur E. C., assignor.)
- Schneider & Cie. (See Schneider, Eugène, assignor.)
- Schneider, Conrad, New York, N. Y. Parcel-handle. No. 1,300,030; Apr. 8; v. 261; p. 348.
- Schneider, Conrad, assignor to International Box Wrapper Corporation, New York, N. Y. Box-wrapper for packages. No. 1,292,891; Jan. 28; v. 258; p. 766.
- Schneider, Daniel J., Rochester, N. Y. Flexible wire brush. No. 1,294,180; Feb. 11; v. 259; p. 312.
- Schneider, Eberhard, deceased, New York, N. Y.; S. Schneider, administratrix. Film-mending apparatus. No. 1,310,215; July 15; v. 264; p. 472.
- Schneider, Elsie, Cleveland, Ohio. Knitting implement. No. 1,318,604; Oct. 14; v. 267; p. 241.
- Schneider, Eugène, Paris, France. Actuating mechanism for indicators for multicylinder engines. No. 1,295,800; Feb. 25; v. 259; p. 745.
- Schneider Eugène, Paris, France. Gun-supporting platform. No. 1,310,144; July 15; v. 264; p. 459.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for operating valves of engines and the like. No. 1,290,790; Jan. 7; v. 258; p. 187.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Piston for heat-engines. No. 1,306,839; June 17; v. 263; p. 365.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Joint for telescopic tubes. No. 1,309,963; July 15; v. 264; p. 427.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for diminishing the recoil of gun-carriages. No. 1,310,141; July 15; v. 264; p. 459.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Hand-operated apparatus for loading large guns. No. 1,310,143; July 15; v. 264; p. 459.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for connecting gun-carriages to limbers or fore-carriages. No. 1,310,145; July 15; v. 264; p. 459.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Suspension apparatus for gun-carriages and the like. No. 1,310,146; July 15; v. 264; p. 460.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for extending the limits of elevation of wheeled guns. No. 1,310,147; July 15; v. 264; p. 460.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for loading guns. No. 1,310,890; July 22; v. 264; p. 626.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for loading guns. No. 1,310,891; July 22; v. 264; p. 627.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Safety apparatus for preventing untimely extinctions in the fuse-rings of time-fuses. No. 1,310,892; July 22; v. 264; p. 628.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Combined recuperator and recoil-brake apparatus for guns. No. 1,310,893; July 22; v. 264; p. 628.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Automatic apparatus for locking the cradle and pedestal of guns of small caliber during their recoil and return into firing position. No. 1,310,894; July 22; v. 264; p. 628.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for regulating the combustion in fuses for shells. No. 1,310,895; July 22; v. 264; p. 628.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for launching torpedoes by means of under-water torpedo-tubes. No. 1,310,896; July 22; v. 264; p. 628.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Wheeled gun-carriage. No. 1,310,897; July 22; v. 264; p. 628.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Field-gun carriage. No. 1,311,778; July 29; v. 264; p. 825.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Machine for restraining gun-charge cases. No. 1,313,560; Aug. 19; v. 265; p. 373.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Liquid transmission. No. 1,314,153; Aug. 26; v. 265; p. 519.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Pressure-gage for hydropneumatic recuperators of guns and for other apparatus. No. 1,316,197; Sept. 16; v. 266; p. 339.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for launching torpedoes from under-water tubes. No. 1,318,014; Oct. 7; v. 267; p. 68.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Centrally-pivoted gun-carriage mounted on wheel-platform. No. 1,318,233; Oct. 7; v. 267; p. 111.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Hydropneumatic recuperator for guns. No. 1,318,606; Oct. 14; v. 267; p. 242.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Gun trail-carriage with endless tracks. No. 1,320,801; Nov. 4; v. 268; p. 83.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Endless track for trail gun-carriages. No. 1,326,103; Dec. 23; v. 269; p. 664.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for loading guns. No. 1,326,789; Dec. 30; v. 269; p. 830.
- Schneider, Eugène, Le Creuzot, France, assignor to Schneider & Cie., Paris, France. Gun for mounting and dismounting the carriages of guns of large caliber. No. 1,298,578; Mar. 25; v. 260; p. 696.



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- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Brake or recuperator for guns. No. 1,299,409; Apr. 1; v. 261; p. 180.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Apparatus for connecting gun-carriages to their limbers. No. 1,309,914; July 15; v. 264; p. 418.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Apparatus for aiming guns. No. 1,310,139; July 15; v. 264; p. 458.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Apparatus for effecting the adjustment of the training movement of gun-carriages mounted on railway-trucks. No. 1,310,140; July 15; v. 264; p. 458.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Wheeled gun-carriage with divergible trails. No. 1,310,142; July 15; v. 264; p. 459.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Construction of water-ballast tanks for submarines and other submergible floating structures. No. 1,310,877; July 22; v. 264; p. 625.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Light-artillery gun. No. 1,310,878; July 22; v. 264; p. 625.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Semi-automatic mechanism for breech-blocks. No. 1,310,879; July 22; v. 264; p. 625.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Door for the exit of torpedoes launched from torpedo-tubes. No. 1,310,880; July 22; v. 264; p. 625.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Brake for guns. No. 1,310,881; July 22; v. 264; p. 626.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Wheeled gun-carriage. No. 1,310,882; July 22; v. 264; p. 626.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Means for connecting and disconnecting large-caliber gun-barrels to and from their slides. No. 1,310,883; July 22; v. 264; p. 626.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Safety locking apparatus for guns of large caliber. No. 1,310,884; July 22; v. 264; p. 626.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Gun-carriage. No. 1,310,885; July 22; v. 264; p. 626.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Resilient suspension for gun-carriages. No. 1,310,886; July 22; v. 264; p. 627.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Firing mechanism of guns. No. 1,310,887; July 22; v. 264; p. 627.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Trail-carriage for guns of large caliber. No. 1,310,888; July 22; v. 264; p. 627.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Wheeled gun-carriage. No. 1,310,889; July 22; v. 264; p. 627.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Episcopes for tanks and other uses. No. 1,311,294; July 29; v. 264; p. 735.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Field-gun carriage. No. 1,311,777; July 29; v. 264; p. 825.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Safety apparatus controlling the fastening mechanism between large-caliber guns and their loading-trucks. No. 1,315,609; Sept. 9; v. 266; p. 216.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Wheeled carriage for guns having a large horizontal angle of fire. No. 1,316,196; Sept. 16; v. 266; p. 338.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Apparatus for checking the liquid charge and air-pressure in recuperators of guns. No. 1,318,013; Oct. 7; v. 267; p. 67.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Apparatus for charging hydro-pneumatic recuperators of guns with liquid and gas under pressure. No. 1,318,605; Oct. 14; v. 267; p. 242.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Gun-carriage. No. 1,321,774; Nov. 11; v. 268; p. 331.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Submarine mine. No. 1,321,775; Nov. 11; v. 268; p. 331.
- Schneider, Eugène, Le Creuzot, assignor to Schneider & Cie, Paris, France. Gun-carriage for transport on railway-trucks for firing from railway. No. 1,326,788; Dec. 30; v. 269; p. 830.
- Schneider, Frederick D., Elizabeth, assignor to The Long-Landred-Schneider Company, New Brunswick, N. J. Storage-water heater. No. 1,317,039; Sept. 23; v. 266; p. 545.
- Schneider, Gustav B., Cincinnati, Ohio. Station-indicator for passenger-cars. No. 1,322,061; Nov. 18; v. 268; p. 435.
- Schneider, Hans, New York, N. Y. Brake-gearing. No. 1,309,964; July 15; v. 264; p. 428.
- Schneider, Harry and J., Jr., Sloatsburg, N. Y. Basin. No. 1,305,624; June 3; v. 263; p. 76.
- Schneider, Henry J., Rochester, N. Y. Scraping device. No. 1,297,502; Mar. 18; v. 260; p. 440.
- Schneider, John, Elizabeth, N. J. Electric fuse. No. 1,315,162; Sept. 2; v. 266; p. 125.
- Schneider, John, Jr. (See Schneider, Harry and J., Jr.)
- Schneider, John E., assignor to Seattle Asbestomine Co., Seattle, Wash. Fireproof paint and coating and making same. No. 1,317,225; Sept. 30; v. 266; p. 616.
- Schneider, Joseph A., Lakeport, Calif. Cover-lock. No. 1,319,970; Oct. 23; v. 267; p. 550.
- Schneider, Laura M., New York, N. Y. Apparatus for washing and cleansing. No. 1,300,031; Apr. 8; v. 261; p. 348.
- Schneider, Morris, New York, N. Y. Alcohol-torch. No. 1,320,498; Nov. 4; v. 268; p. 26.
- Schneider, Stanislaw, administratrix. (See Schneider, Eberhard.)
- Schneider, William, assignor to A. Schneider, Rockville, Conn. Apparatus for making woven-wire fabrics. No. 1,306,859; June 17; v. 263; p. 369.
- Schneider, William, Chicago, Ill., assignor to Marine Safety Appliance Corporation. Ship-floating apparatus. No. 1,319,424; Oct. 21; v. 267; p. 423.
- Schneider, William E., and G. E. Voelksen, Dazey, N. D. Rug-beater. No. 1,305,497; June 3; v. 263; p. 50.
- Schneider, William R., et al. (See Funk, Oscar F., assignor.)
- Schnelbach, Harry A. (See Jester, Ronald B., assignor.)
- Schnippel, Harry M., Shelbyville, Ind. Measuring implement. No. 1,298,579; Mar. 25; v. 260; p. 696.
- Schnitzen, Frank P., Clinton, and N. P. Collis, Dubuque, Iowa, assignors to O. D. Collis, Clinton, Iowa. Steaming-receptacle. No. 1,310,931; July 22; v. 264; p. 634.
- Schnuck, Carl F., assignor to Farrell Foundry & Machine Company, Ansonia, Conn. Clutch. No. 1,303,503; May 13; v. 262; p. 220.
- Schnuck, Edward F., Greenburg, N. Y., assignor to Jabez Burns & Sons. Coffee-roaster. No. 1,313,020; Aug. 12; v. 265; p. 254.
- Schnur, Peter, Chicago, Ill. Rolling screen. No. 1,317,040; Sept. 23; v. 266; p. 545.
- Schnurr, Peter, Chicago, Ill. Rug-beater. No. 1,307,025; June 17; v. 263; p. 400.
- Schobel, Heinrich. (See Anderwert, Fritzche, and Schobel.)
- Schock, Clarence, Mount Joy, Pa. Coal-chute. No. 1,311,622; July 29; v. 264; p. 796.
- Schock, Clarence, Mount Joy, Pa. Liquid-delivering device. No. 1,317,144; Sept. 23; v. 266; p. 565.
- Schoder, Charles E., assignor to American Lithographic Company, New York, N. Y. Adhesive surface and preparing same. No. 1,297,406; Mar. 18; v. 260; p. 420.
- Schoeffstall, Gurney E. (See Johnson and Schoeffstall.)
- Schoell, Eugene F., New Britain, Conn. Curtain-fastener. No. 1,312,138; Aug. 5; v. 265; p. 54.
- Schoell, Eugene F., New Britain, Conn. Curtain-fastener. No. 1,322,140; Nov. 18; v. 268; p. 450.
- Schoell, Eugene F., New Britain, Conn. Curtain-fastener. No. 1,322,141; Nov. 18; v. 268; p. 450.
- Schoellkopf, Jacob F., Dallas, Tex. Drilling and riveting machine. No. 1,299,788; Apr. 8; v. 261; p. 296.
- Schoen, Adolph F., et al., administrators. (See Blumberg and Butkus.)
- Schoen, Edward C., Rochester, N. Y. Oar-handle. No. 1,295,608; Feb. 25; v. 259; p. 701.
- Schoenberg, Ralph A., (now by change of name Ralph A. Belmont,) New York, N. Y., assignor to The Connecticut Electric Mfg. Co., Bridgeport, Conn. Fuse-plug. No. 1,301,009; Apr. 15; v. 261; p. 584.
- Schoenborn, Adam J., Greenleaf, Kans. Handbag. No. 1,316,335; Sept. 16; v. 266; p. 365.
- Schoene, Herbert F. (See Carr and Schoene.)
- Schoenfeld, Nathan, Brooklyn, N. Y. Display-tray. No. 1,320,933; Nov. 4; v. 268; p. 108.
- Schoenfeld, Otto C. (See Heylman, Daniel W., assignor.)
- Schoenheiter, Herman K., Baltimore, Md., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Brake-shoe. No. 1,317,732; Oct. 7; v. 267; p. 14.
- Schoenhut, William G., assignor to The A. Schoenhut Company, Philadelphia, Pa. Joint for dolls. No. 1,326,790; Dec. 30; v. 269; p. 830.
- Schoening, Ferdinand L., Brooklyn, N. Y. Signal. No. 1,305,836; June 3; v. 263; p. 114.
- Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Press for cutting or punching sheet material. No. 1,295,931; Mar. 4; v. 260; p. 25.
- Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Machine for grooving leather. No. 1,296,859; Mar. 11; v. 260; p. 271.
- Schoenl, Frank A., assignor of one-half to H. K. De Lloyd, Cleveland, Ohio. Cloth-holding device. No. 1,297,016; Mar. 11; v. 260; p. 307.
- Schoenlaub, Elmer J. (See Stafford, Rhodehamel, and Schoenlaub.)
- Schoenle, Walter M. (See Benzinger, Albert, assignor.)



- Schoenmehl, Charles B., Waterbury, Conn., assignor to Waterbury Battery Company. Primary battery. No. 1,322,353; Nov. 18; v. 268; p. 490.
- Schoenmehl, Charles B., and M. L. Martus, assignors to The Waterbury Battery Company, Waterbury, Conn. Primary battery. No. 1,297,918; Mar. 18; v. 260; p. 529.
- Schoenmehl, Charles B., and M. L. Martus, assignors to The Waterbury Battery Company, Waterbury, Conn. Primary battery. No. 1,325,115; Dec. 16; v. 269; p. 463.
- Schoenthaler, Fred C. (See Hachmann, Frederick, assignor.)
- Schoenthaler, George R., Chicago, Ill. Spacer for reinforcing-bars. No. 1,324,359; Dec. 9; v. 269; p. 259.
- Schoenthaler, George R., Chicago, Ill. Spacer for concrete-reinforcing bars. No. 1,324,360; Dec. 9; v. 269; p. 259.
- Schoenwolf, Fred, Chicago, and R. I. Utter, Oak Park, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,317,826; Oct. 7; v. 267; p. 31.
- Schoepf, Theodore H., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,315,990; Sept. 16; v. 266; p. 301.
- Schoepke, Frank. (See Dallman and Schoepke.)
- Schofield, Frederick C. (See Shelor and Schofield.)
- Schofield, John A., U. S. Navy. Lock-nut. No. 1,316,112; Sept. 16; v. 266; p. 322.
- Schofield, Samuel W. (See Barnes and Schofield.)
- Scholes, Samuel R., Beaver, assignor to H. C. Fry Glass Company, Rochester, Pa. Decomposing potassium silicates. No. 1,312,053; Aug. 5; v. 265; p. 38.
- Schofield, Harry, administrator. (See Koss, Sidney J., assignor.)
- Scholl, Henry L., Watertown, Wis. Crank and attachment therefor. No. 1,323,106; Nov. 25; v. 268; p. 683.
- Scholtes, Nicholas, Mobile, Ala. Tool-box. No. 1,322,354; Nov. 18; v. 268; p. 490.
- Schommers, Katherine. (See Stremel, Joseph, assignor.)
- Schonfarber, Jacob G., Providence, R. I. Hose-clamp. No. 1,303,780; July 15; v. 264; p. 393.
- Schönwald, Leopold, New York, N. Y. Lock. No. 1,301,979; Apr. 29; v. 261; p. 841.
- School, Anthony F., South Kaukauna, Wis. Portable saw. No. 1,309,781; July 15; v. 264; p. 393.
- Schoolfield, Oliver B., Memphis, Tenn. Antikick attachment for gas-engines. No. 1,320,279; Oct. 28; v. 267; p. 607.
- Schoonmaker, Carl, New York, N. Y. Portable electric heater. No. 1,292,094; Jan. 21; v. 258; p. 555.
- Schoonmaker, Frank E. (See Kissane and Schoonmaker.)
- Schoonover, William J., Belvidere, Ill. Actuating mechanism for washing-machines. No. 1,323,497; Dec. 2; v. 269; p. 52.
- Schopp, Abram C., Sturgis, S. D. Flash-light attachment. No. 1,320,934; Nov. 4; v. 268; p. 108.
- Schoppert, Robert M., Eutaw, Ala. Flash-light-battery tester. No. 1,316,393; Sept. 16; v. 266; p. 376.
- Schoradt, Fredrick W. B., assignor to S. L. Kaufman, Kittanning, Pa. Adding and type-writing machine. No. 1,313,230; Aug. 12; v. 265; p. 295.
- Schoradt, Fredrick W. B., assignor to S. L. Kaufman, Kittanning, Pa. Adding-machine. No. 1,313,231; Aug. 12; v. 265; p. 295.
- Schorger, Arlie W., Madison, Wis. Waterproof composition and product and the like and producing the same. No. 1,310,376; July 15; v. 264; p. 501.
- Schorger, Arlie W., assignor to Burgess Battery Company, Madison, Wis. Dry cell. No. 1,316,597; Sept. 23; v. 266; p. 463.
- Schorik, Frank, Chicago, Ill. Liquid-measuring device. No. 1,304,607; May 27; v. 262; p. 503.
- Schorr, Robert, San Francisco, assignor to Byron Jackson Iron Works, West Berkeley, Calif. Self-balancing centrifugal pump. No. 1,323,412; Dec. 2; v. 269; p. 35.
- Schoshusen, Arthur, assignor to E. Schoshusen, Pittsburgh, Kans. Boot-leg form. No. 1,313,505; Aug. 19; v. 265; p. 362.
- Schoshusen, Elsa. (See Schoshusen, Arthur, assignor.)
- Schott, Joseph F., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Means for handling shells. No. 1,302,861; May 6; v. 262; p. 73.
- Schott, Sidney M., et al. (See Goodrich, William J., assignor.)
- Schottelkorb, Harry J., Pasco, Wash. Necktie. No. 1,326,292; Dec. 30; v. 269; p. 736.
- Schou, Carl P., Hjøla, Christiania, Norway. Means for attaching reserve wheels and tires to motor-cars. No. 1,321,247; Nov. 11; v. 268; p. 231.
- Schou, Gustav B., New York, N. Y. Non-metallic engine-piston. No. 1,294,956; Feb. 18; v. 259; p. 528.
- Schrade, George, New York, N. Y. Attachable heel. No. 1,298,104; Mar. 25; v. 260; p. 594.
- Schrade, George, New York, N. Y. Attachable heel. (Re-issue.) No. 14,740; Oct. 21; v. 267; p. 472.
- Schrade, John C. (See Warfield, John M., assignor.)
- Schrade, John C., Rockaway Beach, N. Y. Pipe-seal. No. 1,301,010; Apr. 15; v. 261; p. 584.
- Schrader, Carl R., Pulaski, Va. Air-coupling. No. 1,326,293; Dec. 30; v. 269; p. 736.
- Schrader, John R., New York, N. Y. Running-board for box-cars. No. 1,300,199; Apr. 8; v. 261; p. 385.
- Schraeder, Frank J., Jr., Glenellyn, Ill. Hoisting apparatus. (Reissue.) No. 14,731; Sept. 30; v. 266; p. 703.
- Schram, Alexander L., Hillsboro, Ill., assignor to Drey Automatic Glass Machine Company, St. Louis, Mo. High-speed-glass-delivery apparatus. No. 1,317,827; Oct. 7; v. 267; p. 32.
- Schramm, Adolph W., Riverton, N. J. Antenna construction for aerial vessels. No. 1,307,155; June 17; v. 263; p. 423.
- Schramm, Ferdinand P., Hazen, N. D. Bearing-adjusting machine for engine crank-shafts and pitmen. No. 1,319,623; Oct. 21; v. 267; p. 461.
- Schramm, Hans K., New York, N. Y. Envelop. No. 1,307,421; June 24; v. 263; p. 504.
- Schramm, Hugh H., New York, N. Y. Tire. No. 1,310,300; July 15; v. 264; p. 487.
- Schramm, Hugh H., New York, N. Y. Resilient vehicle-wheel. No. 1,319,726; Oct. 28; v. 267; p. 503.
- Schramm, Hugh H., New York, N. Y. Rail-joint. No. 1,321,558; Nov. 11; v. 268; p. 290.
- Schranz, Samuel, St. Louis, Mo. Fly-trap. No. 1,313,837; Aug. 19; v. 265; p. 424.
- Schreck, Harry F., Davenport, Iowa. Guide for job-folding machines. No. 1,299,386; Apr. 1; v. 261; p. 175.
- Schreibels, Charles D., Yellowstone Park, Wyo. Drag attachment for harrows. No. 1,299,043; Apr. 1; v. 261; p. 98.
- Schreiber, Conrad, San Francisco, Calif. Protractor. No. 1,318,607; Oct. 14; v. 267; p. 242.
- Schreiber, Edward A., Chicago, Ill., assignor, by mesne assignments, to Vapor Car Heating Company, Inc. Tank-car heater. No. 1,306,837; June 17; v. 263; p. 365.
- Schreiber, Edward A., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Water-heating apparatus. No. 1,321,131; Nov. 11; v. 268; p. 209.
- Schreiber, John, Jersey City, N. J. Self-propelled-sled device. No. 1,320,280; Oct. 28; v. 267; p. 607.
- Schreiber, Norbert, Lincoln, Ill., assignor to American Steam Boiler Cleaner Co., San Antonio, Tex. Boilerskimmer. No. 1,304,385; May 20; v. 262; p. 422.
- Schreiber, Paul D. (See Jones and Schreiber.)
- Schreier, Herman, Sheboygan, Wis. Denture attachment and means for applying same. No. 1,322,355; Nov. 18; v. 268; p. 490.
- Schricker, John C., Davenport, Iowa. Track for roadways. No. 1,313,332; Oct. 7; v. 267; p. 129.
- Schriefer, Edward H., Cincinnati, assignor to The Safe-Cabinet Co., Marietta, Ohio. Fire-resisting cabinet. No. 1,294,838; Feb. 18; v. 259; p. 501.
- Schrier, William. (See Walsh and Schrier.)
- Schrik, Henry. (See Martin and Schrik.)
- Schrock, Edgar E. and E. M., Pontiac, Ill., assignors, by mesne assignments, to International Harvester Company. Seed-planting-machine clutch. No. 1,293,624; Feb. 4; v. 259; p. 151.
- Schrock, Wallace M., Jeannette, Pa. Spring-wheel. No. 1,314,540; Sept. 2; v. 266; p. 12.
- Schroder, Carl, San Diego, Calif. Pump connection for pneumatic tires. No. 1,301,508; Apr. 22; v. 261; p. 719.
- Schröder-Nielsen, Thoralf, Horten, assignor to Christoffer Hannevig and Hannevig Brothers, A/S., Christiania, Norway. Boat-davit. No. 1,312,272; Aug. 5; v. 265; p. 77.
- Schroeder, Anton, St. Paul, Minn. Hinge-hasp. No. 1,309,748; July 15; v. 264; p. 387.
- Schroeder Brothers Manufacturing Company. (See Schroeder, Hugo F., assignor.)
- Schroeder, Emil W., assignor of one-third to C. E. Bloam, Erie, Pa. Emergency-valve. No. 1,325,334; Dec. 16; v. 269; p. 504.
- Schroeder, France A., Seibert, Colo. Animal-poke. No. 1,300,657; Apr. 15; v. 261; p. 508.
- Schroeder, Frank J., Altoona, Pa. S-iron-bending machine. No. 1,309,420; July 8; v. 264; p. 289.
- Schroeder, Fred, Cleveland, Ohio. Spark-plug. No. 1,323,380; Dec. 2; v. 269; p. 30.
- Schroeder, Frederick W., London, England. Incandescent gas-burner. No. 1,320,281; Oct. 28; v. 267; p. 607.
- Schroeder, Harry C., Berkeley, Calif. Compensating pump for pneumatic vehicle-tires. No. 1,311,533; July 29; v. 264; p. 781.
- Schroeder, Henry, and S. J. Kempin, Minneapolis, Minn. Power-pulley attachment for automobiles. No. 1,322,630; Nov. 25; v. 268; p. 594.
- Schroeder, Henry J., Springfield, Ill. Railway-crossing signal. No. 1,320,499; Nov. 4; v. 268; p. 27.
- Schroeder, Hugo F., assignor to Schroeder Brothers Manufacturing Company, Torrington, Conn. Seaming-machine. No. 1,325,210; Dec. 16; v. 269; p. 481.
- Schroeder, John C., et al. (See Dorn, Henry C., assignor.)
- Schroeder, John W., Zurich, Mont. Stone-gathering machine. No. 1,305,940; June 3; v. 263; p. 135.
- Schroeder, Paul, assignor to Mott Sand Blast Mfg. Co., Chicago, Ill. Sand-blast apparatus. No. 1,301,980; Apr. 29; v. 261; p. 841.



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- Schroeder, Paul C., assignor to Sears, Roebuck and Company, Chicago, Ill. Corner-joint for boxes, &c. No. 1,322,203; Nov. 18; v. 268; p. 461.
- Schroeder, Simon E., and C. W. Bird, Minier, Ill. Gearing. No. 1,295,217; Feb. 25; v. 259; p. 610.
- Schroeder, William A., Seattle, Wash. Controllable head-light-screen. No. 1,305,498; June 3; v. 263; p. 51.
- Schroeder, Edmund, Brooklyn, N. Y. Igniter-valve. No. 1,295,801; Feb. 25; v. 259; p. 745.
- Schubert Plano Company. (See Dickinson, Joseph W., assignor.)
- Schubert & Salzer Maschinenfabrik Aktiengesellschaft. (See Walther, Carl, assignor.)
- Schubert, Walter E., Brooklyn, N. Y. Spark-plug. No. 1,313,744; Aug. 19; v. 265; p. 407.
- Schuch Machine Company. (See Stachowski, Joseph, assignor.)
- Schuchard, Bernhard C., Philadelphia, Pa. Playing-cards. No. 1,322,204; Nov. 18; v. 268; p. 462.
- Schuck, Walter P., Portland, Oreg. Production of nickel catalyzer. No. 1,305,173; May 27; v. 262; p. 609.
- Schueck, Henry L. (See Cheeks, John B., assignor.)
- Schuermann, Anton C. (See Mueller and Schuermann.)
- Schuessler, Harry O., Peru, Ill. Apparatus for electro-plating. No. 1,299,624; Apr. 8; v. 261; p. 257.
- Schuffenhauer, Arthur E., South Chicago, Ill. Jointer. No. 1,296,325; Mar. 4; v. 260; p. 115.
- Schuh, Charles F., Newark, N. J., assignor to A. Albright, Jr., New York, N. Y. Hot-water bottle. No. 1,301,509; Apr. 22; v. 261; p. 720.
- Schuh, Frank, Trenton, N. J. Flushing apparatus. No. 1,299,789; Apr. 8; v. 261; p. 296.
- Schulder, Fred, assignor to United Brass Manufacturing Company, Cleveland, Ohio. Valve. No. 1,291,183; Jan. 14; v. 258; p. 304.
- Schulenburg, George F. (See Hanna, Troy E., assignor.)
- Schuler, John, Cleveland, Ohio. Insect-destroyer. No. 1,314,367; Aug. 26; v. 265; p. 560.
- Schuler, Lyndon R., Washington, D. C. Nostril-cleaner. No. 1,326,616; Dec. 30; v. 269; p. 797.
- Schuler, William A., New York, N. Y. Flexible key-ring. No. 1,315,528; Sept. 9; v. 266; p. 202.
- Schullian, J. G. (See Maddock, Clark T., assignor.)
- Schulman, Solomon, Dayton, Ohio. Autographic register. No. 1,317,226; Sept. 30; v. 266; p. 616.
- Schulstad, Peter L. V., Copenhagen, Denmark. Apparatus for measuring and simultaneously marking the measurements on machine-belts and the like. No. 1,309,306; July 8; v. 264; p. 268.
- Schulte, Henry J., Fullerton, Calif. Draw-bar hitch for tractors. No. 1,303,504; May 13; v. 262; p. 220.
- Schulte, Henry J., Fullerton, Calif. Collapsible knock-down bed. No. 1,319,658; Oct. 21; v. 267; p. 468.
- Schulte, John. (See Steinkoenig, Frederick, assignor.)
- Schultis, Charles F., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Machine for forming metal bodies. No. 1,302,228; Apr. 29; v. 261; p. 888.
- Schultis, Charles F., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Elevating-truck. No. 1,303,601; May 13; v. 262; p. 238.
- Schultis, Charles F., assignor to United Brass Manufacturing Company, Cleveland, Ohio. Plug-valve. No. 1,324,984; Dec. 16; v. 269; p. 439.
- Schultis, Charles F., assignor, by mesne assignments, to The Standard Parts Company, Cleveland, Ohio. Machine for forming metal bodies. (Reissue.) No. 14,779; Dec. 23; v. 269; p. 675.
- Schultz, Abraham J., Newark, N. J. Mounting naps, caps, and the like upon hollow elements. No. 1,290,670; Jan. 7; v. 258; p. 159.
- Schultz, August L., Cleveland, Ohio. Turnstile. No. 1,307,932; June 24; v. 263; p. 597.
- Schultz, Carl, Richmond, Va. Washing-machine. No. 1,301,179; Apr. 22; v. 261; p. 656.
- Schultz, Charles E., Chicago, Ill. Doily or centerpiece stretcher. No. 1,318,183; Oct. 7; v. 267; p. 100.
- Schulz, Clyde E., Fort Dodge, Iowa. Repairing motor-vehicle radiators. No. 1,319,670; Oct. 21; v. 267; p. 470.
- Schultz, Edward H., St. Cloud, Minn. Combination-wrench. No. 1,294,715; Feb. 18; v. 259; p. 471.
- Schultz, Emile J. A., Paris, France. Engine-valve. No. 1,297,407; Mar. 18; v. 260; p. 420.
- Schultz, Frank A., Chicago, Ill., assignor to Pelouze Manufacturing Co. Automatic switch for flat-irons. No. 1,306,723; June 17; v. 263; p. 344.
- Schultz, Frederick W., Walla Walla, Wash. Railway-tie. No. 1,326,425; Dec. 30; v. 269; p. 761.
- Schulz, Heinrich, assignor to Firm Cornelius Heyl, Worms, Germany. Treating varnished (patent) leather. No. 1,325,415; Dec. 16; v. 269; p. 518.
- Schultz, James R. (See Dallmeyer, Brown, and Schultz.)
- Schultz, Karl A., Chicago, Ill. Projectile. No. 1,302,720; May 6; v. 262; p. 45.
- Schultze, Gustav F. W., Oakland, Calif. Combined vending-machine and game apparatus. No. 1,298,800; Apr. 1; v. 261; p. 43.
- Schulz, A. Steven, assignor of one-half to F. Howath, Jr., Budapest, Hungary. Producing variously-colored decorative disks or slabs. No. 1,307,886; June 24; v. 263; p. 589.
- Schulz, Albert C., Bridgeport, Conn., assignor to The Locomobile Company of America, New York, N. Y. Hood or bonnet. No. 1,300,032; Apr. 8; v. 261; p. 348.
- Schulz, Gustav O., Revere, Mass. Wall construction. No. 1,307,793; June 24; v. 263; p. 572.
- Schulz, Lorenz C., Detroit, Mich. Motor-shield. No. 1,297,258; Mar. 11; v. 260; p. 359.
- Schulz, Otto B., Minneapolis, Minn. Damper for locomotive smoke-stacks. No. 1,291,184; Jan. 14; v. 258; p. 304.
- Schulz, Wilhelm, Houston, Tex. Flexible metallic joint. No. 1,315,610; Sept. 9; v. 266; p. 216.
- Schulze, Charles, Rice Lake, Wis. Apparatus for distributing powdered material. No. 1,295,609; Feb. 25; v. 259; p. 701.
- Schulze, Hans O., Chicago, Ill. Trammel-point. No. 1,295,932; Mar. 4; v. 260; p. 25.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,306,779; June 17; v. 263; p. 354.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,324,211; Dec. 9; v. 269; p. 230.
- Schumacher, Frank W., Shawano, Wis. Wire-stretcher. No. 1,313,339; Aug. 19; v. 265; p. 331.
- Schumacher, John, Los Angeles, Calif. Machine for making plaster-board and the like. No. 1,308,723; July 1; v. 264; p. 131.
- Schumacher, John, Los Angeles, Calif. Plaster-board lath. No. 1,308,724; July 1; v. 264; p. 132.
- Schumacher, John, Los Angeles, Calif. Handling plaster-board. No. 1,325,452; Dec. 16; v. 269; p. 525.
- Schumacher, Mathias W., Odanah, Wis. Selective switch for telephone and telegraph systems. No. 1,319,307; Oct. 21; v. 267; p. 401.
- Schumacher, Wilhelm, Osnabrück, Germany, assignor to General Briquetting Co., New York, N. Y. Briquetting-press. No. 1,322,960; Nov. 25; v. 268; p. 655.
- Schumann, Albert G., et al. (See Schumann, Alfred F., assignor.)
- Schumann, Alfred F., assignor of one-third to W. C. Codd and one-third to A. G. Schumann, Baltimore, Md. Water-cooled valve. No. 1,313,122; Aug. 12; v. 265; p. 274.
- Schumann, Gustav, Philadelphia, Pa. Ignition system. No. 1,302,474; Apr. 29; v. 261; p. 935.
- Schuman, John F., Reading, Pa. Nut-fastener. No. 1,310,167; July 15; v. 264; p. 463.
- Schumer Brothers. (See Schumer and Wubbolding, assignors.)
- Schumer, Edward J., and R. C., and E. H. Wubbolding, assignors to Schumer Brothers, Cincinnati, Ohio. Setting for precious stones. No. 1,322,062; Nov. 18; v. 268; p. 435.
- Schumer, John. (See Schumer and Wubbolding.)
- Schumer, Ruby C. (See Schumer and Wubbolding.)
- Schumuck, Joe, Pittsburg, Kans. Plastic-form for vaults. No. 1,292,093; Jan. 21; v. 258; p. 555.
- Schupp, Jacob J. and O. C., and O. H. Wisler, Galion, Ohio. Detachable emergency traction-shoe for automobiles. No. 1,295,802; Feb. 25; v. 259; p. 746.
- Schupp, Otto C. (See Schupp and Wisler.)
- Schuppe, Max, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,308,117; July 1; v. 264; p. 20.
- Schuppe, Max, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,323,381; Dec. 2; v. 269; p. 30.
- Schupphaus, Robert C., Brooklyn, N. Y. Playing-ball. No. 1,298,410; Mar. 25; v. 260; p. 458.
- Schurger, John J., Cleveland, Ohio. Attachment for lathes. No. 1,307,520; June 24; v. 263; p. 523.
- Schurman, George E., Pittsburgh, Pa. Tire-remover. No. 1,319,624; Oct. 21; v. 267; p. 461.
- Schurmann, Henry F., Chicago, Ill. Egg-filler. No. 1,312,502; Aug. 5; v. 265; p. 122.
- Schurr, Charles H., assignor to H. T. Bradner, Cleveland, Ohio. Machine for generating gear-teeth. No. 1,323,382; Dec. 2; v. 269; p. 30.
- Schussler, John H., Chicago, Ill. Inking-roller for printing-presses. No. 1,310,932; July 22; v. 264; p. 635.
- Schuster, Edward L., Jr., Cleveland, Ohio. Display-frame. No. 1,300,492; Apr. 15; v. 261; p. 474.
- Schuster, Harry H., Chicago, Ill. Armored inner tube. No. 1,297,408; Mar. 18; v. 260; p. 420.
- Schut, Herman, Brandt, S. D. Traction-wheel. No. 1,297,259; Mar. 11; v. 260; p. 359.
- Schutt, Henry A., and C. F. Fordham, Grand Rapids, Mich. Carburetor. No. 1,316,545; Sept. 16; v. 266; p. 406.
- Schutte, August E., Northboro, Mass. Wooden paving-block. No. 1,299,238; Apr. 1; v. 261; p. 141.
- Schutte, Charles F., Utica, N. Y. Continuous feed device for box-topping machines. No. 1,323,496; Dec. 2; v. 269; p. 51.
- Schutte Electric Company. (See Schutte, Herman, assignor.)
- Schutte, Herman, Wilkesburg, assignor to Schutte Electric Company, Pittsburgh, Pa. Trolley-wire holder. No. 1,296,860; Mar. 11; v. 260; p. 271.



- Schutte & Koerting Company. (See Lovekin, Luther D., assignor.)
- Schutz, Conrad, Philadelphia, Pa. Latching mechanism. No. 1,315,991; Sept. 16; v. 266; p. 301.
- Schutz Hawley Company. (See Schutz, Joseph M., assignor.)
- Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Self-contained pulverizing and separating mill. No. 1,305,413; June 3; v. 263; p. 34.
- Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Art of burning fuel. No. 1,306,233; June 10; v. 263; p. 220.
- Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Introgenative furnace. No. 1,306,234; June 10; v. 263; p. 221.
- Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Fuel-burning apparatus. No. 1,306,235; June 10; v. 263; p. 221.
- Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Fuel-feeder. No. 1,319,119; Oct. 21; v. 267; p. 364.
- Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Caterpillar-wheel. No. 1,319,120; Oct. 21; v. 267; p. 364.
- Schuyler, William H., Detroit, Mich. Space-band cleaner. No. 1,304,886; May 20; v. 262; p. 422.
- Schwab, Edward C., Milwaukee, Wis. Transfer device for knitting-machines. No. 1,294,839; Feb. 18; v. 259; p. 501.
- Schwab, Henry. (See Maxwell, William O., assignor.)
- Schwab, Peter A., assignor to Adams-Williams Manufacturing Corporation, New York, N. Y. Automobile-body construction. No. 1,320,101; Oct. 28; v. 267; p. 574.
- Schwab, Peter A., assignor to Adams-Williams Manufacturing Corporation, New York, N. Y. Automobile-body construction. No. 1,323,790; Dec. 2; v. 269; p. 107.
- Schwab, Peter A., assignor to Adams-Williams Manufacturing Corporation, New York, N. Y. Automobile-body construction. No. 1,323,791; Dec. 2; v. 269; p. 107.
- Schwab, Robert W., Atlanta, Ga. Spring-bed construction. No. 1,303,969; May 20; v. 262; p. 344.
- Schwab, Robert W., assignor to Southern Spring Bed Company, Atlanta, Ga. Folding metal cot. No. 1,325,045; Dec. 16; v. 269; p. 449.
- Schwab, Walter H., and F. B. Sykes, assignors, by mesne assignments, to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile-bumper. No. 1,315,529; Sept. 9; v. 266; p. 202.
- Schwab, William C., Canton, Ohio. Container for soap. No. 1,309,965; July 15; v. 264; p. 428.
- Schwable, Frederick J., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Apparatus for separating liquid from solid matter. No. 1,308,918; July 8; v. 264; p. 195.
- Schwagermann, William, Yonkers, N. Y., assignor to Ward Leonard Electric Company. Electric controlling apparatus. No. 1,312,273; Aug. 5; v. 265; p. 78.
- Schwalbach, Robert, assignor of one-half to R. W. Blaisdell, Milwaukee, Wis. Shoe-tip perforator. No. 1,313,956; Aug. 26; v. 265; p. 481.
- Schwalbach, Robert, assignor to F. Mayer Boot & Shoe Company, Milwaukee, Wis. Safety device for presses. No. 1,322,356; Nov. 18; v. 268; p. 490.
- Schwaller, Frank F., St. Louis, and T. M. Quinn, Overland, Mo. Arm-rest-holding means. No. 1,300,883; Apr. 15; v. 261; p. 556.
- Schwanenberg, Hermann, Tompkinsville, N. Y. Wash-boiler, washing-machine, and sterilizer. No. 1,321,155; Nov. 11; v. 268; p. 213.
- Schwanhauser, Edwin J. (See Huber and Schwanhauser.)
- Schwareman, Alexander, Buffalo, N. Y. Drier and making same. No. 1,291,186; Jan. 14; v. 258; p. 305.
- Schwareman, Alexander, assignor to S. S. Jr., and H. Kellogg, Buffalo, N. Y. Drier. No. 1,291,185; Jan. 14; v. 258; p. 304.
- Schwareman, Alexander, assignor to Spencer Kellogg & Sons, Inc., Buffalo, N. Y. Treating pyroxylin and products thereof. No. 1,323,792; Dec. 2; v. 269; p. 107.
- Schwartz, A. J., et al. (See Glidden, Harry D., assignor.)
- Schwartz, Arthur A., and W. A. Whiteside, assignors to J. A. Gauthier, Buffalo, N. Y. Coupling for electric-light fixtures. No. 1,318,807; Oct. 14; v. 267; p. 279.
- Schwartz, Bernard L., Cincinnati, Ohio. Signal. No. 1,309,222; July 8; v. 264; p. 252.
- Schwartz, Charles, trustee. (See Knapp, William A., assignor.)
- Schwartz, Edward, New York, N. Y., assignor to Manhattan Electrical Supply Company, Jersey City, N. J. Electromagnet. No. 1,297,919; Mar. 18; v. 260; p. 529.
- Schwartz, Edward, and L. Mandel, Chicago, Ill., assignors to The Mandel Corporation. Sound-reproducing machine. No. 1,321,559; Nov. 11; v. 268; p. 290.
- Schwartz, Emma F., Cleveland, Ohio. Bath-tub. No. 1,315,643; Sept. 9; v. 266; p. 222.
- Schwartz, Gerhardt F., St. Louis, Mo. Tank water-heater. No. 1,295,610; Feb. 25; v. 259; p. 702.
- Schwartz, Gerhardt F., St. Louis, Mo. Gas-heater. No. 1,303,970; May 20; v. 262; p. 344.
- Schwartz, Gerhardt F., St. Louis, Mo. Thermostatic valve. No. 1,324,070; Dec. 9; v. 269; p. 203.
- Schwartz, Gerhardt F., St. Louis, Mo. Water-heater. No. 1,324,071; Dec. 9; v. 269; p. 203.
- Schwartz, Ignatz, and A. Klein, New York, N. Y. Folding stool. No. 1,295,073; Feb. 18; v. 259; p. 554.
- Schwartz, Joseph, et al. (See Pascal, Israel, assignor.)
- Schwartz, Louis, and H. Zaslavsky, Brooklyn, N. Y. Blouse. No. 1,316,598; Sept. 23; v. 266; p. 463.
- Schwartz, Michael, Los Angeles, Calif., assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,292,522; Jan. 28; v. 258; p. 677.
- Schwartz, Michael, assignor to Automatic Electric Company, Chicago, Ill. Selective ringing telephone system. No. 1,312,706; Aug. 12; v. 265; p. 192.
- Schwartz, Milton S., Brooklyn, N. Y. Cushion-wheel. No. 1,293,558; Feb. 4; v. 259; p. 136.
- Schwartz, Moritz D., New York, N. Y. Metatarsal support. No. 1,295,611; Feb. 25; v. 259; p. 702.
- Schwartz, Morris A., Los Angeles, Calif. Magnetic-release hat-press. No. 1,315,338; Sept. 9; v. 266; p. 168.
- Schwartz, Nathan, New York, N. Y. Respirator-mask. No. 1,292,095; Jan. 21; v. 258; p. 555.
- Schwartz, Nathan, New York, N. Y. Respirator. No. 1,292,096; Jan. 21; v. 258; p. 555.
- Schwartz, Nathan, New York, N. Y. Gas-mask and respirator. No. 1,313,745; Aug. 19; v. 265; p. 407.
- Schwartz, Nathan, New York, N. Y. Separator. No. 1,315,163; Sept. 2; v. 266; p. 126.
- Schwartz, Nathan, New York, N. Y. Gas-mask. No. 1,320,935; Nov. 4; v. 268; p. 109.
- Schwartz, Peter G. (See Moscherosch and Schwartz.)
- Schwartz, Ralph C. (See Wallis and Schwartz.)
- Schwartz, Simon I. (See Boedthcher and Schwartz.)
- Schwartz, Simon J., Jr. (See Romeo, Dominick A., assignor.)
- Schwartz, Theodore, Sedalia, Mo. Collar-button and neck-tie-fastener. No. 1,290,368; Jan. 7; v. 258; p. 85.
- Schwartz, William, Scottsdale, Pa. Antiskid-chain. No. 1,315,866; Sept. 9; v. 266; p. 263.
- Schwartz, William R., La Moure, N. D. Band-cutter. No. 1,319,971; Oct. 28; v. 267; p. 550.
- Schwartzberg, Alter L., Shreveport, La. Can-puncturer. No. 1,315,339; Sept. 9; v. 266; p. 168.
- Schwarz, Alfred, Joplin, Mo., assignor to Metals Recovery Company, New York, N. Y. Effecting the selective flotation of minerals. No. 1,317,945; Oct. 7; v. 267; p. 54.
- Schwarz, Constantine P., Cleveland, Ohio. Leaf-spring. No. 1,312,139; Aug. 5; v. 265; p. 54.
- Schwarz, Constantine P., Indianapolis, Ind. Leaf-spring. No. 1,312,140; Aug. 5; v. 265; p. 54.
- Schwarz, Emil. (See Becker, John, assignor.)
- Schwarz, Emil. (See McDonnell, James F., assignor.)
- Schwarz, Frank, McCleary, Wash. Laundrying device. No. 1,293,212; Feb. 4; v. 259; p. 55.
- Schwarz, Gotthilf H., Brooklyn, N. Y., and M. Vintschger, Ridgewood, assignors to The Pole and Tube Works, Inc., Newark, N. J. Container, &c. No. 1,314,708; Sept. 2; v. 266; p. 45.
- Schwarz, Henry W., Mart, Tex. Window sash and curtain operating mechanism. No. 1,293,213; Feb. 4; v. 259; p. 55.
- Schwarz, Justin O., New York, N. Y., and G. Bjorklund, West New York, N. J. Pedal mechanism for pneumatic devices. No. 1,306,081; June 10; v. 263; p. 190.
- Schwarz, Katharine E., Lakewood, Ohio. Means for aiding in teaching phonics and spelling words. No. 1,326,695; Dec. 30; v. 269; p. 811.
- Schwarze, Carl J., assignor to Schwarze Electric Company, Adrian, Mich. Electric bell. No. 1,292,523; Jan. 28; v. 258; p. 678.
- Schwarze Electric Company. (See Schwarze, Carl J., assignor.)
- Schwarzer, Fritz, St. Gallen, Switzerland. Lifting-jack. No. 1,304,515; May 20; v. 262; p. 448.
- Schwarzer, Fritz, St. Gallen, Switzerland. Signal-whistle. No. 1,322,205; Nov. 18; v. 268; p. 462.
- Schwarzmann, Wolfgang E. (See Heins, Wild, and Schwarzmann.)
- Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Distributing mechanism for magnetos. No. 1,319,308; Oct. 21; v. 267; p. 401.
- Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Brush-holder for magnetos. No. 1,322,505; Nov. 18; v. 268; p. 520.
- Schweiger, William F. (See Balkwill and Schweiger.)
- Schweimler, Robert W., and P. A. Foulation, Wheeling, W. Va. Composition tile. No. 1,322,004; Nov. 18; v. 268; p. 424.
- Schweinert, Maximilian C. (See Kraft and Schweinert.)
- Schweinert, Maximilian C., West Hoboken, N. J. Tire-pressure gage. No. 1,291,187; Jan. 14; v. 258; p. 305.
- Schweinert, Maximilian C., West Hoboken, N. J. Floating hangar for airplanes. No. 1,292,097; Jan. 21; v. 258; p. 555.
- Schweinert, Maximilian C., West Hoboken, N. J. Pump-coupling. No. 1,297,741; Mar. 18; v. 260; p. 492.



## Alphabetical list of patentees—Continued.

- Schweinert, Maximilian C., West Hoboken, N. J. Stopper. No. 1,310,448; July 22; v. 264; p. 546.
- Schweinert, Maximilian C., West Hoboken, and J. Volckhausen, Weehawken, N. J., assignors to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Dust-cap. No. 1,302,441; Apr. 29; v. 261; p. 929.
- Schweinert, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Inflating-coupling. No. 1,304,814; May 27; v. 262; p. 542.
- Schweinert, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Pressure-gage. No. 1,312,457; Aug. 5; v. 265; p. 114.
- Schweinert, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J., assignors to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Combined bridge-washer and ring-washer. No. 1,322,830; Nov. 25; v. 268; p. 631.
- Schweinfurth, Charles L. (See Stecker and Schweinfurth.)
- Schweine, Charles, assignor to Sanitary Refrigerating Machinery Company, Milwaukee, Wis. Control for refrigerating apparatus. No. 1,325,756; Dec. 23; v. 269; p. 599.
- Schweine, Charles, and J. J. Hauerwas, assignors to Sanitary Refrigerating Machinery Company, Milwaukee, Wis. Control mechanism for refrigerating apparatus. No. 1,302,596; May 6; v. 262; p. 21.
- Schweisgood, Charles E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Belt-fastener. No. 1,313,642; Aug. 19; v. 265; p. 388.
- Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
- Schweitzer & Conrad. (See Schweitzer and Conrad, assignors.)
- Schweitzer, Edmund O., Chicago, Ill. Electricity-metering. No. 1,306,356; June 10; v. 263; p. 244.
- Schweitzer, Edmund O., Chicago, Ill. Instantaneous-voltage-regulating means. No. 1,309,814; July 15; v. 264; p. 399.
- Schweitzer, Edmund O., Chicago, Ill. Reverse-phase relay. No. 1,310,216; July 15; v. 264; p. 472.
- Schweitzer, Edmund O., and N. J. Conrad, Chicago, Ill. Fuse device. No. 1,299,387; Apr. 1; v. 261; p. 175.
- Schweitzer, Edmund O., and N. J. Conrad, assignors to Schweitzer & Conrad, Chicago, Ill. Lightning-arrester. No. 1,302,229; Apr. 29; v. 261; p. 887.
- Schweitzer, Edmund O., and N. J. Conrad, assignors to Schweitzer & Conrad, Chicago, Ill. Means for extinguishing arcs. No. 1,319,907; Oct. 28; v. 267; p. 538.
- Schweizer, Adolph, assignor to United Chemical & Organic Products Co., Chicago, Ill. Process of and machine for making glue and the like. No. 1,318,464; Oct. 14; v. 267; p. 214.
- Schwenning, Harry H. (See Primrose and Schwenning.)
- Schwerdtle, Henry G. (See Reifsnyder and Schwerdtle.)
- Schwerin, Botho, Frankfurt-on-the-Main, Germany. Separating substances in suspension by washing. (Reissue.) No. 14,583; Jan. 7; v. 258; p. 202.
- Schwerin, Botho, assignor to Elektro-Osmose Aktien-gesellschaft (Graf Schwerin Gesellschaft), Frankfurt-on-the-Main, Germany. Modifying the electrical charge of diaphragms. No. 1,326,104; Dec. 23; v. 269; p. 664.
- Schwerin, Botho, assignor to Gesellschaft für Elektro-Osmose m. b. H., Frankfurt-on-the-Main, Germany. Separation of adsorbed substances. No. 1,326,105; Dec. 23; v. 269; p. 664.
- Schwerin, Botho, assignor to Gesellschaft für Elektro-Osmose m. b. H., Frankfurt-on-the-Main, Germany. Treating colloidal and finely-subdivided substances. No. 1,326,106; Dec. 23; v. 269; p. 664.
- Schwerk, Fred J., Silver Creek, N. Y. Mechanical movement. No. 1,318,507; Oct. 14; v. 267; p. 223.
- Schwartz, Bernard E. J., New Orleans, La. Collapsible shaving-brush. No. 1,300,884; Apr. 15; v. 261; p. 556.
- Schwidetzky, Oscar O. R., Hasbrouck Heights, assignor to Becton Dickinson & Co., Rutherford, N. J. Syringe. No. 1,315,164; Sept. 2; v. 266; p. 126.
- Schwieb, Fred G. (See Tannehill, Harley, assignor.)
- Schwimmer, Frederick J. (See Notz and Schwimmer.)
- Schwimmer, Oscar, Los Angeles, Cal. Towel-cabinet. No. 1,291,188; Jan. 14; v. 258; p. 305.
- Schwitzer, Louis, assignor to Automotive Parts Co., Indianapolis, Ind. Fan structure. No. 1,316,652; Sept. 23; v. 266; p. 473.
- Schyllander, Alfred T., assignor of one-half to C. E. Adamson, Toledo, Ohio. Tire. No. 1,306,724; June 17; v. 263; p. 344.
- Sciarr, Peter, assignor to C. Compagmicci, Benid, Ill. Clarinet. No. 1,319,625; Oct. 21; v. 267; p. 461.
- Scientific Farming Machinery Company. (See Hicks, Thomas W., assignor.)
- Scientific Materials Company. (See Fisher, Edwin H., assignor.)
- Seissors Appliance Co. (See Arnold, Elisha J., assignor.)
- Sclar, Nathan. (See Atkinson and Sclar.)
- Slater, Ivanhoe H., Pittsfield, Mass., assignor to General Electric Company. Core for electrical apparatus. No. 1,310,299; July 15; v. 264; p. 487.
- Slater, Ivanhoe H., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,315,867; Sept. 9; v. 266; p. 263.
- Scoban Company, The. (See Goertz, Frederick, assignor.)
- Scoblonko, Samuel, Philadelphia, Pa. Projectile. No. 1,291,189; Jan. 14; v. 258; p. 305.
- Scodfield, Arthur L. (See Phillips, William J., assignor.)
- Scoby, John R., Okmulgee, Okla. Internal-lock bait for drawing glass. No. 1,311,137; July 22; v. 264; p. 673.
- Scollon, Richard, Barnesboro, Pa. Mixing device. No. 1,296,326; Mar. 4; v. 260; p. 115.
- Scorey, Alfred T., London, England. Hand-propelled folding carriage or chair. No. 1,300,033; Apr. 8; v. 261; p. 348.
- Scott, Louis K., Chicago, Ill., assignor to Cheney Talking Machine Company. Supporting device for covers of cabinets. No. 1,324,435; Dec. 9; v. 269; p. 274.
- Scott, Alfred A., Bradford, England. Vehicle. No. 1,320,282; Oct. 28; v. 267; p. 607.
- Scott, Alonzo B., Fairmont, W. Va. Card-holding attachment for pencils. No. 1,297,017; Mar. 11; v. 260; p. 307.
- Scott, Augustus B., Burkburnett, Tex. Device for recovering tools from wells. No. 1,315,581; Sept. 9; v. 266; p. 212.
- Scott, Bateman D., Stretford, Manchester, and W. H. Tate, Sale, England. Internal-combustion engine. No. 1,295,803; Feb. 25; v. 259; p. 746.
- Scott, Bateman D., Sale, assignor to The Gresham Finance Corporation Limited, London, England. Lubrication of radial-cylinder engines. No. 1,321,338; Nov. 11; v. 268; p. 249.
- Scott, Charles F., New Haven, Conn., assignor to Westinghouse Electric and Manufacturing Company. Means for minimizing inductive interference. No. 1,293,945; Feb. 11; v. 259; p. 256.
- Scott, Charles F., New Haven, Conn., assignor to Westinghouse Electric & Manufacturing Company. Distributing system for electric railways. No. 1,295,933; Mar. 4; v. 260; p. 25.
- Scott, Charles H., deceased, Gloucester; W. Scott, Manchester, W. Scott, Shipley, and J. E. Westle, Gloucester, England, executors. Machines for printing linoleum floor-cloth and the like. No. 1,323,107; Nov. 25; v. 268; p. 683.
- Scott, Clarence N., Houston, Tex., assignor, by mesne assignments, to The Texas Company. Oil-well screen. (Reissue.) No. 14,756; Nov. 18; v. 268; p. 521.
- Scott, Clinton A., and A. G. Hug, assignors to National Manufacturing and Specialty Company, Chicago, Ill. Razor-blade sharpener. No. 1,299,239; Apr. 1; v. 261; p. 141.
- Scott, David J., et al., executors. (See Scott, David J., assignor.)
- Scott, David J., Plainfield, N. J., assignor to I. Scott and D. J. Scott, executors. Offset perfecting-press. No. 1,310,506; July 22; v. 264; p. 556.
- Scott, David J., Plainfield, N. J., assignor to I. Scott and D. J. Scott, executors. Offset web-perfecting machine. No. 1,311,138; July 22; v. 264; p. 673.
- Scott, David J., Plainfield, N. J., assignor to I. Scott and D. J. Scott, executors. Multicolor offset-press. No. 1,313,123; Aug. 12; v. 265; p. 274.
- Scott, Donald C., Seattle, Wash. Street-car-window cleaner. No. 1,301,609; Apr. 22; v. 261; p. 738.
- Scott, Elmer E., et al. (See Peckens, Nelson S., assignor.)
- Scott, Ernest A., Marion, Ohio. Sign. No. 1,294,957; Feb. 18; v. 259; p. 528.
- Scott, Frank V., and J. D. Haskett, Elizabeth City, N. C.; said Haskett assignor to said Scott. Pea-harvester. No. 1,303,120; May 6; v. 262; p. 122.
- Scott, Flossa, Sugar Grove, Va. Guard for poison-bottles. No. 1,301,510; Apr. 22; v. 261; p. 720.
- Scott, Flossa, Sugar Grove, Va. Guard for scissors-handles. No. 1,317,041; Sept. 23; v. 266; p. 545.
- Scott, George F., Hoquiam, Wash. Box-holder. No. 1,319,363; Oct. 21; v. 267; p. 411.
- Scott, George L., Shawnee, Okla. Car-brake. No. 1,307,422; June 24; v. 263; p. 505.
- Scott, Gertrude M., Scotts Mills, Oreg. Hot-water bottle. No. 1,313,021; Aug. 12; v. 265; p. 254.
- Scott, Glenn, Kellerton, Iowa. Wire-grip. No. 1,293,559; Feb. 4; v. 259; p. 136.
- Scott, Harry A., Berkeley, Calif. Tire testing and inflating gage. No. 1,318,113; Oct. 7; v. 267; p. 85.
- Scott, Harry C. D., et al., executors. (See Royle, John J. and G. E.)
- Scott, Harry R., assignor of one-third to D. L. Hill and one-third to M. S. Asbell, Lordsburg, N. Mex. Gas and oil saving device. No. 1,299,790; Apr. 8; v. 261; p. 297.
- Scott, Henry F., Framingham, assignor to Dennison Manufacturing Company, Boston, Mass. Numbering mechanism. No. 1,324,469; Dec. 9; v. 269; p. 281.
- Scott, Henry L., Providence, R. I. Recording attachment for testing-machines. No. 1,324,470; Dec. 9; v. 269; p. 281.
- Scott, Isabella, et al., executors. (See Scott, David J., assignor.)
- Scott, Jacob R., North Weymouth, assignor of two-tenths to E. H. Kavanagh and two-tenths to J. W. Colgan, Weymouth, Mass. Fuel-feeding mechanism for internal-combustion engines. No. 1,323,413; Dec. 2; v. 269; p. 36.



- Scott, Jacob R., North Weymouth, assignor of two-tenths to E. H. Kavanagh and two-tenths to J. W. Colgan, Weymouth, Mass. Internal-combustion engine. No. 1,323,414; Dec. 2; v. 269; p. 36.
- Scott, James G., Washington, D. C. Stove. No. 1,296,125; Mar. 4; v. 260; p. 71.
- Scott, James H., assignor of one-half to N. E. Jewett, Los Angeles, Cal. Perambulator and cradle. No. 1,297,018; Mar. 11; v. 260; p. 308.
- Scott, John M. (See Dayton and Scott.)
- Scott, John M., Racine, Wis. Steering-knuckle for automobiles. No. 1,304,608; May 27; v. 262; p. 503.
- Scott, Lewis L., St. Louis, Mo. Worm-gear-locking device. No. 1,301,180; Apr. 22; v. 261; p. 656.
- Scott, Lewis L., St. Louis, Mo. Cloth-measuring machine. No. 1,303,971; May 20; v. 262; p. 344.
- Scott, Lewis L., St. Louis, Mo. Igniting hydrocarbons. No. 1,307,214; June 17; v. 263; p. 433.
- Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Safety device for combustion systems. No. 1,320,936; Nov. 4; v. 268; p. 109.
- Scott, Lewis L., St. Louis, Mo. Percussion-drill. No. 1,308,811; July 8; v. 264; p. 175.
- Scott, Lewis L., St. Louis, Mo. Combustion system. No. 1,323,916; Dec. 2; v. 269; p. 130.
- Scott, Lulu M., Baxter Springs, Kans. Automobile-lock. No. 1,315,868; Sept. 9; v. 266; p. 263.
- Scott, Oliver L., San Francisco, Calif. Carbureter. No. 1,301,610; Apr. 22; v. 261; p. 738.
- Scott Paper Company. (See Tong, James T., assignor.)
- Scott, Paul C., Omaha, Nebr. Advertising-machine. No. 1,306,975; June 17; v. 263; p. 390.
- Scott, Philip L., Syracuse, N. Y. Spray-valve for liquid-fuel engines. No. 1,295,612; Feb. 25; v. 259; p. 702.
- Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Latch-opener for knitting-machines. No. 1,303,823; May 13; v. 262; p. 279.
- Scott, Robert W., assignor, by mesne assignments, to Scott & Williams, Incorporated, Boston, Mass. Needle-ram structure for knitting-machines. No. 1,311,093; July 22; v. 264; p. 665.
- Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Tuck-stitch mechanism for knitting-machines. No. 1,311,623; July 29; v. 264; p. 796.
- Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Hosiery-knitting machine. No. 1,317,897; Oct. 7; v. 267; p. 45.
- Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Circular-knitting machine. No. 1,324,623; Dec. 9; v. 269; p. 310.
- Scott, Thomas W., and H. V. Rudolph, assignors to The American Train Control Co., Baltimore, Md. Controlling mechanism for air-brakes. No. 1,318,925; Oct. 14; v. 267; p. 302.
- Scott, Walter. (See Burhen, Reinhart J., assignor.)
- Scott, Walter, Sheridan, Wyo. Coupling device. No. 1,312,584; Aug. 12; v. 265; p. 169.
- Scott, Walter, *et al.*, executors. (See Scott, Charles H.)
- Scott, Walter W. (See Hess and Scott.)
- Scott, William, Glasgow, Scotland. Steam-trap. No. 1,310,507; July 22; v. 264; p. 556.
- Scott, William F., Johnstown, Pa. Molding-machine. No. 1,299,240; Apr. 1; v. 261; p. 141.
- Scott, William H., Norwich, England. Electric motor or dynamo. No. 1,295,613; Feb. 25; v. 259; p. 702.
- Scott, William H., assignor to Amherst Waxed Paper Mills, Holyoke, Mass. Coating-machine. No. 1,299,388; Apr. 1; v. 261; p. 175.
- Scott, William H., Norwich, England. Connection with brushes for electric motors or dynamos. No. 1,315,796; Sept. 9; v. 266; p. 250.
- Scott, William H., Norwich, England. Commutator. No. 1,318,808; Oct. 14; v. 267; p. 280.
- Scott, William L., Montreal, Quebec, Canada. Steam-boiler. No. 1,310,807; July 22; v. 264; p. 613.
- Scott, William L., Montreal, Quebec, Canada. Belt conveyor. No. 1,325,704; Dec. 23; v. 269; p. 590.
- Scott and Williams. (See Childrey, William H., assignor.)
- Scott and Williams. (See Ruth, James A., assignor.)
- Scott & Williams. (See Scott, Robert W., assignor.)
- Scott & Williams. (See Swinglehurst, Harry, assignor.)
- Scott & Williams, Incorporated. (See Scott, Robert W., assignor.)
- Scoutten, Floyd L., East Cleveland, Ohio. Thermostatic alarm. No. 1,301,011; Apr. 15; v. 261; p. 584.
- Scovill Manufacturing Company. (See Bagg, Hollis B., assignor.)
- Scovill Manufacturing Company. (See Stanley, Frederick E., assignor.)
- Scovill Manufacturing Company. (See Wolff, Edward L., assignor.)
- Scoville, Charles, Binghamton, N. Y. Portable siphon. No. 1,317,324; Sept. 30; v. 266; p. 635.
- Scoville Manufacturing Company. (See Summey, David L., assignor.)
- Scoville, Willoughby S., West De Pere, Wis. Driving mechanism for valve-grinders. No. 1,324,280; Dec. 9; v. 269; p. 244.
- Scranton, Henry O., Jeanerette, La. Soil-pulverizer. No. 1,321,248; Nov. 11; v. 268; p. 232.
- Scranton, Henry O., Jeanerette, La. Windrowing-machine. No. 1,323,498; Dec. 2; v. 269; p. 52.
- Scranton, Henry O., Jeanerette, La. Rotary earthworking element. No. 1,325,416; Dec. 16; v. 269; p. 519.
- Scribner, Charles E., Jericho, Vt., and J. L. McQuarrie, Montclair, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,312,809; Aug. 12; v. 265; p. 212.
- Scribner, George M., El Cajon, Cal. Cooking attachment for stoves. No. 1,293,214; Feb. 4; v. 259; p. 55.
- Scribner, John E., *et al.* (See Campbell, William L., assignor.)
- Scrimgeour, William, Washington, D. C., assignor to S-K. Manufacturing Company, Huntington, W. Va. Machine for rolling rings. No. 1,295,614; Feb. 25; v. 259; p. 703.
- Scrivenor, Arthur, Richmond, Va. Grinding-machine. No. 1,314,154; Aug. 26; v. 265; p. 519.
- Scroggins, Allen C., Jr., *et al.* (See Kennedy, James W., assignor.)
- Scroggins, Allen C., Jr., *et al.* (See Kennedy, James W., assignor.) (Reissue.)
- Scruggs, Loyd, and T. L. Jones, assignors to Copper-Clad Malleable Range Company, St. Louis, Mo. Door. No. 1,316,247; July 15; v. 264; p. 472.
- Scudder, Chauncey T. (See Gibson, Adelbert R., assignor.)
- Scullin, Michael J., Newark, N. J. Glass-cutter. No. 1,308,260; July 1; v. 264; p. 46.
- Scullin Steel Co. (See Doerr, Harry E., assignor.)
- Scully, Francis X., Brooklyn, N. Y., assignor to The Wolf Company. Machine for cutting sheer fabrics into strips. No. 1,315,340; Sept. 9; v. 266; p. 169.
- Scully, John J. (See Lyle, Scully, and Capps.)
- Sculthorpe, William J., Detroit, Mich. Bedside-table. No. 1,312,274; Aug. 5; v. 265; p. 78.
- Scusa, Lino, Phoenix, N. Y. Gage. No. 1,309,700; July 15; v. 264; p. 378.
- Scusa, Lino, Phoenix, N. Y. Indicator-gage. No. 1,317,227; Sept. 30; v. 266; p. 617.
- Scusa, Lino, Phoenix, N. Y. Internal gage. No. 1,318,697; Oct. 14; v. 267; p. 259.
- Se Cor, Clyde M., Lodi, Calif. Dirigible headlight. No. 1,314,906; Sept. 2; v. 266; p. 80.
- Seaberg, Simon P. (See Anderson, Gustaf, assignor.)
- Seabold, Walter G., assignor to Illinois Glass Company, Alton, Ill. Packing-case for carboys. No. 1,320,713; Nov. 4; v. 268; p. 66.
- Seaboldt, Bert, New York, and H. E. J. Wackwits, Port Washington; said Seaboldt assignor of his right to H. R. Smith, Port Washington, N. Y. Brush. No. 1,309,599; July 8; v. 264; p. 323.
- Seabolt, Frank J., *et al.* (See Pons, Eugene, assignor.)
- Seagers, Harry M., and S. H. Drake, Groton, N. Y., assignors to Corona Typewriter Company, Inc. Stand. No. 1,311,918; Aug. 5; v. 265; p. 13.
- Seale, Frederick E., Toronto, Ontario, Canada. Detachable sole-guard. No. 1,302,721; May 6; v. 262; p. 45.
- Seale, Harry V., and W. Shellshear, Broken Hill, New South Wales, Australia, assignors, by mesne assignments, to Minerals Separation North American Corporation. Concentration of ores. No. 1,311,919; Aug. 5; v. 265; p. 13.
- Seale, Harry V., East Maitland, New South Wales, Australia, and W. Shellshear, Nam-tu, Burma, India, assignors to Minerals Separation American Syndicate (1913) Limited, London, England. Concentration of ores. No. 1,311,920; Aug. 5; v. 265; p. 13.
- Sealy, Christopher, Brooklyn, N. Y. Torpedo-guard. No. 1,307,274; June 17; v. 263; p. 444.
- Seaman, Alfred P. W., *et al.* (See Marvin, Charles R., Jr., assignor.)
- Seaman, George Q., Brooklyn, N. Y. Gear-shifting device. No. 1,296,436; Mar. 4; v. 260; p. 138.
- Seaman, Halleck W. (See Crawford, Albert G., assignor.)
- Seaman, Stewart E., Brooklyn, assignor to Seaman Waste Wood Chemical Company, New York, N. Y. Drying process. No. 1,299,791; Apr. 8; v. 261; p. 297.
- Seaman Waste Wood Chemical Company. (See Seaman, Stewart E., assignor.)
- Seamon, Thomas R., *et al.* (See Butner, William R., assignor.)
- Seamon, William H., El Paso, Tex. Making sulfur trioxid. No. 1,292,098; Jan. 21; v. 258; p. 555.
- Search, Charles E., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Blade-bracing and locating the same. No. 1,309,816; July 15; v. 264; p. 399.
- Searcy, Walter, Placerville, Calif. Detachable flexible metal shoe-protector. No. 1,318,608; Oct. 14; v. 267; p. 242.
- Searight Co. (See Wright, Wilbur L., assignor.)
- Searl, Clifford H. (See Misener, John I., assignor.)
- Searl, Woolsey R., and O. F. Clark, Timber Lake, S. D. Rotary steam-engine. No. 1,316,512; Sept. 16; v. 266; p. 399.
- Searles, Herbert N., New York, N. Y. Cooling-radiator and correlating the same with motors. No. 1,293,946; Feb. 11; v. 259; p. 257.
- Searles, Herbert N., New York, N. Y. Radiator. No. 1,306,976; June 17; v. 263; p. 390.



*Alphabetical list of patentees—Continued.*

- Searles, Wayne S., assignor to New Jersey Optical Co., Newark, N. J. Temple for eyeglasses and spectacles. No. 1,293,215; Feb. 4; v. 259; p. 55.
- Searles, Wayne S., assignor to New Jersey Optical Co., Newark, N. J. Spectacle-frame. No. 1,306,392; June 10; v. 263; p. 251.
- Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. No. 1,324,176; Dec. 9; v. 269; p. 223.
- Searles, Wayne S., Providence, R. I. Bottle-closure. No. 1,325,586; Dec. 23; v. 269; p. 568.
- Sears, Alfred J., assignor to Detroit Forging Company, Detroit, Mich. Vehicle-top. No. 1,294,544; Feb. 18; v. 259; p. 432.
- Sears-Cross Company. (See Lee, Nixon, assignor.)
- Sears, George H., Guthrie, Okla. Broom-frame. No. 1,296,861; Mar. 11; v. 260; p. 272.
- Sears, George H., assignor to Waterbury Clock Co., Waterbury, Conn. Wrist-watch. No. 1,293,947; Feb. 11; v. 259; p. 257.
- Sears, Roebuck and Co. (See Dun Lany, William P., assignor.)
- Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)
- Sears, Roebuck and Co. (See Tharp, Charles H., assignor.)
- Sears, Roebuck and Company. (See Bohmker and Geist-white, assignors.)
- Sears, Roebuck & Company. (See Brandstetter, Josef, assignor.)
- Sears, Roebuck and Company. (See Schroeder, Paul C., assignor.)
- Sears, Willard T., New York, N. Y. Throttle-controlling apparatus. No. 1,307,794; June 24; v. 263; p. 572.
- Sears, Willard T., New York, N. Y. Punch-press. No. 1,312,213; Aug. 5; v. 265; p. 68.
- Sears, Willard T., New York, N. Y. Throttle-controlling apparatus. No. 1,322,961; Nov. 25; v. 268; p. 656.
- Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Clamping mechanism. No. 1,296,862; Mar. 11; v. 260; p. 272.
- Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Adjusting mechanism for drilling-machines. No. 1,296,863; Mar. 11; v. 260; p. 272.
- Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Tapping mechanism for drilling-machines. No. 1,299,241; Apr. 1; v. 261; p. 142.
- Searson, Patrick M., Jersey City, N. J. Holding means for drain-valves of air-brake systems. No. 1,315,165; Sept. 2; v. 266; p. 126.
- Seastrom, Hugo, Cleveland, Ohio. Vehicle-wheel. No. 1,306,192; June 10; v. 263; p. 211.
- Seaton, Alexander J., Carney, Okla. Vehicle-jack. No. 1,311,015; July 22; v. 264; p. 650.
- Seaton, Benjamin C., Nashville, Tenn. Leaf-spring. No. 1,314,021; Aug. 26; v. 265; p. 494.
- Seaton, Benjamin C., Nashville, Tenn. Spring. No. 1,326,107; Dec. 23; v. 269; p. 664.
- Seaton, Cyrillus B., Medill, Mo. Railway-crossing signal. No. 1,315,869; Sept. 9; v. 266; p. 264.
- Seaton, Max Y., and J. S. Harris, assignors to The Arco Company, Cleveland, Ohio. Plastered concrete ceiling and making same. No. 1,300,493; Apr. 15; v. 261; p. 474.
- Seattle Asbestomine Co. (See Schneider, John E., assignor.)
- Seattle Astoria Iron Works. (See Troyer, Nelson, assignor.)
- Seattle Car and Foundry Co. (See Jarvis, Herbert C., assignor.)
- Seattle Patent Holding Corporation. (See Starr, Charles E., assignor.)
- Seaver, William H., Agawam, assignor to E. Krause, Springfield, Mass. Tobacco-stripper. No. 1,311,183; July 29; v. 264; p. 714.
- Seay, Mathew E., Wichita Falls, Tex. Bevel-square. No. 1,324,624; Dec. 9; v. 269; p. 310.
- Sebastian, Alphonse A., Chicago, Ill. Auxiliary spring for motor-vehicles. No. 1,300,658; Apr. 15; v. 261; p. 508.
- Sebastian, Alphonse A., Chicago, Ill. Auxiliary spring attachment for motor-vehicles. No. 1,300,783; Apr. 15; v. 261; p. 535.
- Sebastian, Alphonse A., assignor to Andrew Hoffman Mfg. Co., Chicago, Ill. Pelling and sliding window. No. 1,310,842; July 22; v. 264; p. 619.
- Sebastian, Alphonse A., assignor to Andrew Hoffman Mfg. Co., Chicago, Ill. Swinging and sliding window. No. 1,310,843; July 22; v. 264; p. 619.
- Sebastian, Alphonse A., and D. R. Capes, assignors to A-C Manufacturing Company, Chicago, Ill. Carburetor air-inlet. No. 1,303,972; May 20; v. 262; p. 344.
- Sebenius, John A., Shelton, Wash. Trolling-spoon. No. 1,309,966; July 15; v. 264; p. 428.
- Sebenste, Fred A., Hammond, Ind. Tobacco-pipe. No. 1,290,791; Jan. 7; v. 258; p. 187.
- Sébillé, Léo P., Providence, R. I. Welding-flame. No. 1,325,116; Dec. 16; v. 269; p. 463.
- Sebolt, Frank B. (See Christensen, Martin J., assignor.)
- Sebring, Bert A. (See Kessler, Henry M., assignor.)
- Sebring, Charles L., Sebring, Ohio. Drying-rack for pottery manufacture. No. 1,294,958; Feb. 18; v. 259; p. 528.
- Sebring, Fred A., Granite Falls, Minn. Barrel hoisting and tilting device. No. 1,311,094; July 22; v. 264; p. 665.
- Sechrist, Albert, Denver, Colo. Lighting-fixture. No. 1,304,387; May 20; v. 262; p. 422.
- Sechrist, Albert, assignor to The Albert Sechrist Manufacturing Company, Denver, Colo. Safety-valve. No. 1,305,747; June 3; v. 263; p. 98.
- Seckendorf, Samuel, assignor to Johnston & Seckendorf, New York, N. Y. Releasing mechanism. No. 1,297,019; Mar. 11; v. 260; p. 308.
- Seckleman, Erwin W., Chicago, Ill. Ironing-board. No. 1,324,931; Dec. 16; v. 269; p. 429.
- Secor, John A., Laporte, Ind. Forming and utilizing charges in combustion-motors. No. 1,320,500; Nov. 4; v. 268; p. 27.
- Secord, Frederick A., assignor of one-third to A. P. Paterson and one-third to C. H. Peters, St. John, New Brunswick, Canada. Apparatus for hardening and molding soap. No. 1,294,545; Feb. 18; v. 259; p. 432.
- Secord, Frederick A., assignor of one-third to A. P. Paterson and one-third to C. H. Peters, St. John, New Brunswick, Canada. Drying apparatus. No. 1,315,530; Sept. 9; v. 266; p. 203.
- Secretary of War of the United States of America. (See Walpole, Nathaniel C., assignor.)
- Security Auto Lock Company. (See Davis, Edward E., assignor.)
- Security Tire & Rubber Company, The. (See Gilmore and Hanes, assignors.)
- Sedano, Rafael D., Habana, Cuba. Interior reflector for incandescent lights. No. 1,305,837; June 3; v. 263; p. 115.
- Sedbrook, Alvin L., Goltry, Okla. Cow-yoke. No. 1,304,388; May 20; v. 262; p. 422.
- Seder, Harry, Pittsburgh, Pa. Lock mechanism. No. 1,306,193; June 10; v. 263; p. 211.
- Sedgwick, Alexander K., San Jose, Calif. Extracting sulfur from sulfur ores. No. 1,318,015; Oct. 7; v. 267; p. 68.
- Sedgwick, Henry F. F., Millwall, London, England. Bending-machine. No. 1,306,126; June 10; v. 263; p. 199.
- Sedig, Martin, Sioux City, Iowa. Harvesting-machine hitch. No. 1,319,626; Oct. 21; v. 267; p. 462.
- See, Alonzo B. (See Jackson, Joseph R., Jr., assignor.)
- See, Nikolaus. (See Grabe, See, Lubberger, Fröbing, and Rütter.)
- Seebly, John A., Tampa, Fla. Planking-clamp. No. 1,298,580; Mar. 25; v. 260; p. 696.
- Seeds, George, Newton, Iowa. Excavating-machine. No. 1,295,615; Feb. 25; v. 259; p. 703.
- Seeds, William A., Cripple Creek, Colo. Automatic train-stop. No. 1,301,879; Apr. 29; v. 261; p. 822.
- Seeger, Frederick U., assignor to Samuel Gabriel Sons & Company, New York, N. Y. Toy block. No. 1,314,541; Sept. 2; v. 266; p. 12.
- Seek, James H., Chicago, Ill. Automatic adjusting carburetor. No. 1,296,705; Mar. 11; v. 260; p. 236.
- Seeley, Ada R., administratrix. (See Seeley, James E.)
- Seeley, Alfred. (See Holt and Seeley.)
- Seeley, James E., deceased, Los Angeles, Calif.; A. R. Seeley, administratrix. Making lead pigment. No. 1,325,960; Dec. 23; v. 269; p. 637.
- Seely, Thomas H., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing-machine. No. 1,302,597; May 6; v. 262; p. 21.
- Seely, Thomas H., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing-machine. No. 1,302,598; May 6; v. 262; p. 22.
- Seely, Thomas H., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,324,985; Dec. 16; v. 269; p. 439.
- Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Upper-pulling mechanism. No. 1,305,218; May 27; v. 262; p. 618.
- Seelye, Nelson H. (See Sneedon, William H., assignor.)
- Seelye, Raymond W., Brainerd, Minn., assignor to Auto Tool Co., Sandpoint, Idaho. Combination-tool. No. 1,326,108; Dec. 23; v. 269; p. 665.
- Seem, Warren P., Altoona, Pa. Cohesion-machine. No. 1,300,494; Apr. 15; v. 261; p. 474.
- Seeman, Frederick W., Detroit, Mich. Ash-sifter. No. 1,291,190; Jan. 14; v. 258; p. 305.
- Seery, Peter H., Newark, N. J. Axle-bracing fixture. No. 1,322,063; Nov. 18; v. 268; p. 435.
- Seery, Peter H., Newark, N. J. Axle-bracing fixture. No. 1,322,064; Nov. 18; v. 268; p. 435.
- Sefranek, John, South Bethlehem, Pa. Tandem attachment for tricycles. No. 1,295,804; Feb. 25; v. 259; p. 746.
- Sefton Manufacturing Corporation. (See Reber, John G., assignor.) (Reissue.)
- Sefton Manufacturing Corporation. (See Twomley, Melvan L., assignor.)



- Segal Lock & Hardware Co. (See Segal, Samuel, assignor.)
- Segal, Samuel, New York, N. Y. Pin-lock-protecting device. No. 1,304,105; May 20; v. 262; p. 368.
- Segal, Samuel, assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Key-duplicating machine. No. 1,307,378; June 24; v. 263; p. 497.
- Segal, Samuel, assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Gage for filing tumblers of locks. No. 1,307,379; June 24; v. 263; p. 497.
- Segall, Aaron. (See Segall, Henry, assignor.)
- Segall, Henry, assignor to A. Segall, New York, N. Y. Celluloid article of manufacture and producing same. No. 1,322,631; Nov. 25; v. 268; p. 595.
- Segel, Michael, New York, N. Y. Projecting-machine. No. 1,318,016; Oct. 7; v. 267; p. 68.
- Seghers, Emiel P., Chicago, assignor to H. B. Wilson, Champaign, Ill. Rule and T-square. No. 1,292,654; Jan. 28; v. 258; p. 710.
- Segin, Gustav. (See Schlatter and Segin.)
- Segur, Calvin A., and W. Burnip, South Wellington, British Columbia, Canada. Cue-tip. No. 1,304,389; May 20; v. 262; p. 422.
- Seib, George A., assignor to Remington Typewriter Company, Iliion, N. Y. Type-writing machine. No. 1,309,422; July 8; v. 264; p. 289.
- Seib, George A., assignor to Remington Typewriter Company, Iliion, N. Y. Type-writing machine. No. 1,309,423; July 8; v. 264; p. 289.
- Seib, George A., assignor to Remington Typewriter Company, Iliion, N. Y. Type-writing machine. No. 1,317,760; Oct. 7; v. 267; p. 19.
- Seib, George A., assignor to Remington Typewriter Company, Iliion, N. Y. Type-writing machine. No. 1,317,761; Oct. 7; v. 267; p. 19.
- Seiberg, John M., et al., trustees. (See Chalmers, Charles H., assignor.)
- Seiberling, Frank A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Fabric-forming apparatus. No. 1,309,424; July 8; v. 264; p. 289.
- Seibert, Frank M., and J. D. Brady, Houston, assignors to Gulf Production Company, Beaumont, Tex. Process of and apparatus for treating oil. No. 1,290,369; Jan. 7; v. 258; p. 85.
- Seibert, Lloyd J. (See Gelhaar, Harry J., assignor.)
- Seidel, Bruno W., and G. E. Wattman, assignors to The Adams & Westlake Company, Chicago, Ill. Solder-feeding machine. No. 1,309,107; July 8; v. 264; p. 231.
- Seidel, George E., Richmond, Ind. Anchor-strap. No. 1,299,512; Apr. 8; v. 261; p. 232.
- Seidel, William, Chicago, Ill. Wheel. No. 1,315,043; Sept. 2; v. 266; p. 104.
- Seidenfeld, Fannie, et al. (See Hodgson, George F., assignor.)
- Seidl, Rudolf, Minneapolis, Minn. Toy submarine. No. 1,306,284; June 10; v. 263; p. 231.
- Seidler, Alexander E., New York, N. Y., assignor to F. C. Austin, Chicago, Ill. Automatic fire-thrower. No. 1,304,710; May 27; v. 262; p. 523.
- Seif, Della L., Gallion, Ohio. Collar-button. No. 1,293,948; Feb. 11; v. 259; p. 257.
- Seifarth, Frederick G., assignor to F. A. Smith, Chicago, Ill. Knitting appliance. No. 1,318,465; Oct. 14; v. 267; p. 215.
- Seiferd, Louis, Brooklyn, N. Y. Collapsible mold. No. 1,294,311; Feb. 11; v. 259; p. 343.
- Seifert, Harry V., Vinita, Okla. Boiler-filler. No. 1,293,216; Feb. 4; v. 259; p. 55.
- Seifert, Martin W., East Bountiful, Utah. Sleigh. No. 1,310,252; July 15; v. 264; p. 479.
- Seiler, Henry. (See Dyarman, George W., assignor.)
- Seils, Hugo. (See Grynnet, Martin, assignor.)
- Seiss, George J., Toledo, Ohio. Support for mechanically-actuated horns. No. 1,322,831; Nov. 25; v. 268; p. 631.
- Seitz, Ludwig, and H. Wintz, Erlangen, Germany, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of a menses-increasing substance from corpus luteum. No. 1,318,698; Oct. 14; v. 267; p. 259.
- Seitz, Ludwig, and H. Wintz, Erlangen, Germany, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of a menses-controlling preparation from corpus luteum. No. 1,318,699; Oct. 14; v. 267; p. 259.
- Seitzman, Herman D., Brooklyn, N. Y. Wrench. No. 1,325,380; Dec. 16; v. 269; p. 612.
- Sejournet, Paul, Paris, assignor to Societe Electro Metallurgique Francaise, Froges, Isere, France. Electrode for electric furnaces. No. 1,315,992; Sept. 16; v. 266; p. 301.
- Sekinger, John G., Ford City, assignor to The Pittsburgh Plate Glass Company, Pittsburgh, Pa. Magnetic separator. No. 1,317,992; Oct. 7; v. 267; p. 63.
- Selander, Gustaf, Chicago, Ill. Poker and clinker-extractor. No. 1,324,986; Dec. 16; v. 269; p. 439.
- Selasky, Charles J., Pittsburgh, Pa. Window-locking device. No. 1,301,511; Apr. 22; v. 261; p. 720.
- Selby, George M., Millwall, London, England. Abrasive wire rope. No. 1,306,636; June 10; v. 263; p. 295.
- Selby, Grant, St. Louis, Mo. Fusee and torpedo holding attachment for railway-lanterns. No. 1,305,014; May 27; v. 262; p. 579.
- Selden Company, The. (See Andrews, Chester E., assignor.)
- Seldin, Jacob J., Syracuse, N. Y. Tailor's steaming-iron. No. 1,313,124; Aug. 12; v. 265; p. 275.
- Self Acting Switch Co. (See Eppley, Charles S., assignor.)
- Selig, Moses. (See Gruber and Selig.)
- Seliga, Edward M., St. Louis, Mo. Automobile-headlight. No. 1,312,054; Aug. 5; v. 265; p. 38.
- Seligman, Richard, Seattle, Wash. Button. No. 1,319,908; Oct. 28; v. 267; p. 538.
- Seline, John. (See McLean, Seline, and Reddeck.)
- Sell, Emanuel M., Independence, Kans. Barrel-rack. No. 1,313,340; Aug. 19; v. 265; p. 331.
- Sellar, John A. E., Everett, Mass., assignor to The Randall-Faichney Company, Inc. Pressure-syringe and subcutaneous needle. No. 1,308,919; July 8; v. 264; p. 195.
- Sellar, John A. E., Everett, Mass., assignor to The Randall-Faichney Company, Inc. Pressure-syringe and subcutaneous needle. No. 1,316,394; Sept. 16; v. 266; p. 376.
- Sellars, William S., Brooklyn, and W. W. Taylor, Spuyten Duyvil, N. Y. Coating material for handles of sporting and trade implements and applying same. No. 1,293,949; Feb. 11; v. 259; p. 257.
- Selle, Martin E., and D. A. Driscoll, assignors of one-third to W. J. Driscoll, Chicago, Ill. Tablet-separator. No. 1,320,802; Nov. 4; v. 268; p. 83.
- Selle, Oliver, St. Louis, Mo. Belt-buckle. No. 1,323,917; Dec. 2; v. 269; p. 131.
- Selleck, Theodore G., assignor to Deere & Company, Moline, Ill. Charing-truck. No. 1,326,001; Dec. 23; v. 269; p. 644.
- Sellers, Edward C., Green Mountain, Iowa. Harvester-reel. No. 1,301,512; Apr. 22; v. 261; p. 720.
- Sellers, Priscilla, Brooklyn, N. Y. Medicine-dispensing device. No. 1,325,660; Dec. 23; v. 269; p. 582.
- Sellers, William F., Brandywine Hundred, Del., assignor to Edge Moor Iron Company, Edgemoor, Del. Soot-blower header. No. 1,304,609; May 27; v. 262; p. 503.
- Sells, William H., Buffalo, N. Y. Butt-remover for corn-huskers. No. 1,312,361; Aug. 5; v. 265; p. 94.
- Sellstone, Carl I., Bridgewater, Mass. Lock and key. No. 1,317,828; Oct. 7; v. 267; p. 32.
- Selmersheim, Tony, Paris, France. Machine for reproducing the configuration of objects. No. 1,322,832; Nov. 25; v. 268; p. 631.
- Selvaige, James M., Grant, Ala. Lamp-chimney. No. 1,294,181; Feb. 11; v. 259; p. 313.
- Sem, Mathias, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Norsk Industri Hypotekbank, Christiania, Norway. Process of treating sulfid ores. No. 1,317,179; Sept. 30; v. 266; p. 608.
- Semashko, John J., South River, N. J. Machine for assembling tiles. No. 1,315,166; Sept. 2; v. 266; p. 126.
- Semashko, John J., South River, N. J. Machine for assembling tiles. No. 1,315,167; Sept. 2; v. 266; p. 127.
- Semenow, Saul D. (See Davis and Semenov.)
- Semenow, Saul D. (See Dieterle and Semenov.)
- Semenow, Saul D., and H. L. Abramovitz, Pittsburgh, Pa. Tap for barrels, drums, or receptacles containing gasoline. No. 1,304,390; May 20; v. 262; p. 423.
- Semet-Solvay Company. (See Graul, Walter L., assignor.)
- Semet-Solvay Company. (See Houghton, Alexis C., assignor.)
- Semet-Solvay Company. (See Jones, Louis C., assignor.)
- Semon, William P., Brooklyn, N. Y. Indicator. No. 1,315,425; Sept. 9; v. 266; p. 184.
- Sample, Edwin C., Chicago, Ill. Lock-nut. No. 1,309,817; July 15; v. 264; p. 399.
- Sample, John B., Sewickley, Pa. Fuse. No. 1,310,844; July 22; v. 264; p. 619.
- Sample, John B., Sewickley, Pa. Projectile. No. 1,325,757; Dec. 23; v. 269; p. 599.
- Sample, John B., Sewickley, Pa. Projectile. No. 1,325,758; Dec. 23; v. 269; p. 599.
- Sample, Perle G., Stamford, Conn. Bed-covering and the like. No. 1,291,191; Jan. 14; v. 258; p. 306.
- Sancenbaugh, Rex W., Washington, Ill. Cigar-lighter and ignition system. No. 1,326,215; Dec. 30; v. 269; p. 722.
- Seng, Camille, Romilly-sur-Seine, France. Pipe-coupling. No. 1,322,357; Nov. 13; v. 268; p. 491.
- Seng Company, The. (See Seng, Julius T., assignor.)
- Seng Company, The. (See Seng and Dyke, assignors.)
- Seng, Julius T., assignor to The Seng Company, Chicago, Ill. Corner-lock for bedsteads. No. 1,315,341; Sept. 9; v. 266; p. 169.
- Seng, Wendelin P., and D. F. Dyke, assignors to The Seng Company, Chicago, Ill. Bed-rail fastener. No. 1,316,113; Sept. 16; v. 266; p. 323.
- Sengebusch, Hans, Chicago, Ill. Electric safety-razor. No. 1,303,973; May 20; v. 262; p. 344.
- Senical, Medrick, Negaunee, Mich. Rail brace and fastener. No. 1,303,824; May 13; v. 262; p. 279.
- Seniw, Stephen, Chicago, Ill. Bayonet. No. 1,301,763; Apr. 22; v. 261; p. 767.
- Senkpiel, Edward C., Detroit, Mich. Valve-tappet. No. 1,318,609; Oct. 14; v. 267; p. 243.



## Alphabetical list of patentees—Continued.

- Sensenbaugh, James B., Marshalltown, Iowa. Mail-box support. No. 1,326,791; Dec. 30; v. 269; p. 830.
- Sensiba, Edward H. (See Lauchin, George Y., assignor.)
- Sentinal Company, The. (See Malone, John F. J., assignor.)
- Sentinella, Arthur E., Waterloo Road, London, assignor to Bowden Wire Limited, Willesden Junction, England. Bowden-wire mechanism. No. 1,319,627; Oct. 21; v. 267; p. 462.
- Sepniswicz, Jozef, Newark, N. J. Aeroplane. No. 1,322,632; Nov. 25; v. 268; p. 595.
- Sera, Ryumatsu, Banning, Calif. Beet-cultivator. No. 1,303,602; May 13; v. 262; p. 238.
- Sera, Ryumatsu, Indian Wells, Calif. Beet topping and harvesting machine. No. 1,314,155; Aug. 26; v. 265; p. 519.
- Seraphine, John G., New York, N. Y. Disinfecting garbage-can cover. No. 1,323,918; Dec. 2; v. 269; p. 131.
- Serduk, Bwthly, Avonlea, Saskatchewan, Canada. Automatic gate. No. 1,312,877; Aug. 12; v. 265; p. 225.
- Sereinsky, Louis R., Indianapolis, Ind. Moving-picture machine. No. 1,318,610; Oct. 14; v. 267; p. 243.
- Serlo, Philip H., assignor to National Aluminum Works, Elmira, N. Y. Forming spouted containers. No. 1,298,801; Apr. 1; v. 261; p. 44.
- Serra, Bartolome, V., M., and J., Buenos Aires, Argentina. Type-making machine. No. 1,312,362; Aug. 5; v. 265; p. 94.
- Serra, José. (See Serra, Bartolome, V., M., and J.)
- Serra, Melchor. (See Serra, Bartolome, V., M., and J.)
- Serra, Vincente. (See Serra, Bartolome, V., M., and J.)
- Serrell, John A., North Plainfield, N. J. Steam-heating. No. 1,304,106; May 20; v. 262; p. 368.
- Serrell, John A., North Plainfield, and J. L. Fitts, Pensauken township, Camden county, N. J.; said Fitts assignor to Warren Webster & Co. Steam-heating apparatus. No. 1,312,275; Aug. 5; v. 265; p. 78.
- Serrell, John J., Elizabeth, N. J. Flexible coupling. No. 1,290,370; Jan. 7; v. 258; p. 85.
- Serrell, John J., Elizabeth, N. J. Flexible coupling for shafts. No. 1,324,523; Dec. 9; v. 269; p. 291.
- Serrell, Lemuel W., Plainfield, N. J. Device for connecting hose to faucets. No. 1,292,524; Jan. 28; v. 258; p. 678.
- Serriere, Charles. (See Ryerson, William, assignor.)
- Serrurier, Iwan, Altadena, Calif. Picture-projecting apparatus. No. 1,299,792; Apr. 8; v. 261; p. 297.
- Servatius, Michael F., Chicago, Ill. Meat-curing machine. No. 1,315,242; Sept. 9; v. 266; p. 150.
- Serviceable Inventions Corporation. (See Adams, Harry A., assignor.)
- Servidor Company, The. (See Matchette, Frank J., assignor.)
- Servitje, Juan. (See Balcells and Servitje.)
- Sessions, Edson O. (See Simon and Sessions.)
- Sessions, Edson O., Chicago, Ill. Locking-switch. No. 1,310,168; July 15; v. 264; p. 464.
- Sessions, Edson O., Chicago, Ill. High-tension locking-switch. No. 1,320,992; Nov. 4; v. 268; p. 120.
- Sessions, Edson O., Chicago, Ill. Locking-switch. No. 1,322,065; Nov. 18; v. 268; p. 435.
- Sessions, George W., assignor to Herve, Barber & McKee, New York, N. Y. Corner-fastening. No. 1,322,962; Nov. 25; v. 268; p. 656.
- Setchell, Frederick J. (See Barry, Cornelius J., assignor.)
- Sethman, George H., assignor of three-twentieths to W. H. Ferguson and seven-twentieths to W. E. Porter, Denver, Colo. Means for producing electrical currents and impulses. No. 1,319,181; Oct. 21; v. 267; p. 378.
- Setina, Mary, Milwaukee, Wis. Cap. No. 1,323,108; Nov. 25; v. 268; p. 684.
- Sétter, Michael, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Company. Selective switch mechanism for telephone or other systems. No. 1,317,597; Sept. 30; v. 266; p. 688.
- Settle, Paul L., Washington, D. C. Aerial bomb. No. 1,318,926; Oct. 14; v. 267; p. 303.
- Setzler, Horace B., Coffeyville, Kans., assignor to The National Refining Company, Cleveland, Ohio. Apparatus for treating petroleum derivatives. No. 1,292,966; Jan. 28; v. 258; p. 783.
- Seubel, Frederick W., assignor to J. E. Marsden, Philadelphia, Pa. Cover for pitchers, pots, jugs, &c. No. 1,295,616; Feb. 25; v. 259; p. 703.
- Severance, Reginald E., Healdsburg, Calif. Corner-cleaning implement. No. 1,319,493; Oct. 21; v. 267; p. 437.
- Severen, Robert J., Chicago, Ill. Printer's quoin. No. 1,324,773; Dec. 9; v. 269; p. 338.
- Seyern, Walter D. (See Thomson, Severn, and Twycross.)
- Seyerns, William, Chicago, Ill. Mop. No. 1,307,215; June 17; v. 263; p. 433.
- Severs, George F., Centerville, Iowa. Clasp for antiskid-chains. No. 1,299,864; Apr. 8; v. 261; p. 313.
- Severson, Louis T., Battle Lake, Minn. Carbureter. No. 1,294,182; Feb. 11; v. 259; p. 313.
- Sevizny, Edward C., Jacksonville, Fla. Seamless-tube-drawing bench. No. 1,302,599; May 6; v. 262; p. 22.
- Sewall, Robert H. F., Shreveport, La. Compound pile. No. 1,290,371; Jan. 7; v. 258; p. 85.
- Seward, George O., Jersey City, N. J., assignor to American Magnesium Corporation. Electrodeposition of magnesium. No. 1,310,449; July 22; v. 264; p. 546.
- Seward, George O., assignor to American Magnesium Corporation, Niagara Falls, N. Y. Electrodepositing magnesium. No. 1,310,450; July 22; v. 264; p. 546.
- Seward, Harvey, assignor to Seward Trunk and Bag Company, Petersburg, Va. Wardrobe-trunk. No. 1,315,870; Sept. 9; v. 266; p. 264.
- Seward Trunk and Bag Company. (See Dunn and Beasley, assignors.)
- Seward Trunk and Bag Company. (See House, Thomas M., assignor.)
- Seward Trunk and Bag Company. (See Seward, Harvey, assignor.)
- Sexauer, Gustave F., La Crosse, Wis., assignor to Badger Corrugating Company, Cupola. No. 1,326,792; Dec. 30; v. 269; p. 831.
- Sexton, Isaac E., Boston, Mass. Riveted receptacle. No. 1,313,022; Aug. 12; v. 265; p. 254.
- Sexton, James P., Los Angeles, Calif. Making plaster lath or the like. No. 1,301,513; Apr. 22; v. 261; p. 720.
- Sexton, James P., Los Angeles, Calif. Forming plastic board and the like. No. 1,324,471; Dec. 9; v. 269; p. 281.
- Sexton, James P., Los Angeles, Calif. Waterproof plaster-board and making same. No. 1,325,883; Dec. 23; v. 269; p. 623.
- Sexton, James P., assignor to Buttonlath Manufacturing Company, Los Angeles, Calif. Plaster-lath. No. 1,298,411; Mar. 25; v. 260; p. 659.
- Sexton, John R., Hartford, Conn. Lubricator. No. 1,325,117; Dec. 16; v. 269; p. 464.
- Seyler, Charles L., Oakvale, W. Va. Automobile-trackway. No. 1,326,109; Dec. 23; v. 269; p. 665.
- Seymour, Charles R., assignor to M. B. Knowlton Company, Rochester, N. Y. Safety operating mechanism. No. 1,294,959; Feb. 18; v. 259; p. 528.
- Seymour, Charles R., and O. M. Hoch, assignor to M. D. Knowlton Company, Rochester, N. Y. Machine for operating upon webs of material. No. 1,299,513; Apr. 8; v. 261; p. 232.
- Seymour, Charles R., and O. M. Hoch, assignors to M. D. Knowlton Company, Rochester, N. Y. Machine for operating upon webs of material. No. 1,316,064; Sept. 16; v. 266; p. 314.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,292,099; Jan. 21; v. 258; p. 556.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Overseaming mechanism for sewing-machines. No. 1,293,560; Feb. 4; v. 259; p. 136.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,295,074; Feb. 18; v. 259; p. 554.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,297,920; Mar. 18; v. 260; p. 529.
- Seymour, Dudley S., assignor to Union Special Machine Company, Chicago, Ill. Needle-clamp for sewing-machines. No. 1,299,242; Apr. 1; v. 261; p. 142.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,299,625; Apr. 8; v. 261; p. 258.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Illinois. Presser-foot mechanism for sewing-machines. No. 1,300,885; Apr. 15; v. 261; p. 557.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Filled-bag-sewing apparatus. No. 1,303,121; May 6; v. 262; p. 123.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,312,363; Aug. 5; v. 265; p. 95.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Controlling device for filled-bag-sewing apparatus. No. 1,314,368; Aug. 26; v. 265; p. 560.
- Seymour, Dudley S., assignor to Union Special Machine Company, Chicago, Ill. Filled-bag-sewing machine. No. 1,321,481; Nov. 11; v. 268; p. 276.
- Seymour, Francis, Paterson, N. J. Motion-picture machine. No. 1,317,042; Sept. 23; v. 266; p. 545.
- Seymour, Francis, Paterson, N. J. Motion-picture machine. No. 1,317,043; Sept. 23; v. 266; p. 546.
- Seymour, George C., New York, N. Y. Heel. No. 1,320,417; Nov. 4; v. 268; p. 12.
- Seymour, Harold F., Cleveland, Ohio. Vise. No. 1,314,985; Sept. 2; v. 266; p. 94.
- Seymour, John K., assignor of one-half to W. W. McConnell, Elvira, Ohio. Toy. No. 1,311,534; July 29; v. 264; p. 781.
- Seymour, Malcolm, Boston, Mass. Aeroplane. No. 1,326,535; Dec. 30; v. 269; p. 782.
- Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company. Printing-press. No. 1,305,568; June 3; v. 263; p. 64.
- Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company. Folding-machine. No. 1,312,458; Aug. 5; v. 265; p. 114.
- Seymour, Stedman. (See Gardner, Benjamin F., assignor.)



- Seys, Charles D., St. Louis, Mo. Ironing-table. No. 1,292,380; Jan. 21; v. 258; p. 623.
- Shaar, Hamdan W., Monroe, Wash. Pneumatic-tire re-liner. No. 1,298,581; Mar. 25; v. 260; p. 696.
- Shackleton, William J., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulation for electrical apparatus. No. 1,303,511; May 13; v. 262; p. 221.
- Shackle, Ida M., Watertown, S. D. Cover-fastener. No. 1,308,962; July 8; v. 264; p. 203.
- Shackman, Mathew J., Flora, Ill. Combination ironing-board, step-ladder, and drying-rack. No. 1,302,862; May 6; v. 262; p. 73.
- Shad, Charles, *et al.* (See Partridge, Hugh, assignor.)
- Shadall, Charles E., Milwaukee, assignor to Shadall Manufacturing Company, Wauwatosa, Wis. Ventilating and flushing apparatus. No. 1,303,974; May 20; v. 262; p. 345.
- Shadall Manufacturing Company. (See Shadall, Charles E., assignor.)
- Shader, Lewis B., Union Hill, N. J. Ash-sifter. No. 1,320,418; Nov. 4; v. 268; p. 12.
- Shadwick, Lawrence R., Palestine, Ill. Combination air and hand power jack. No. 1,315,871; Sept. 9; v. 266; p. 264.
- Shafer-Decker Co. (See Decker, Frederick J., assignor.)
- Shafer, Howard S., Nazareth, Pa. Carbon-removing means for internal-combustion engines. No. 1,306,637; June 10; v. 263; p. 295.
- Shafer, Le Roy D. and L. J., Bollinger, Grove City, Pa. Focusing device. No. 1,298,582; Mar. 25; v. 260; p. 696.
- Shafer, Miles, Lake Linden, Mich. Locating-buoy. No. 1,295,805; Feb. 25; v. 259; p. 746.
- Shafer, Robert E. (See Surratt, William F., assignor.)
- Shafer, Samuel, Jr., assignor to Chain Belt Company, Milwaukee, Wis. Conveying apparatus. No. 1,290,792; Jan. 7; v. 258; p. 187.
- Shafer, Samuel, Jr., assignor to Chain Belt Company, Milwaukee, Wis. Valve device. No. 1,317,762; Oct. 7; v. 267; p. 19.
- Shaffer, Benjamin F., Crystal, Mich. Wheel-bearing. No. 1,295,218; Feb. 25; v. 259; p. 611.
- Shaffer, Charles, Jacksonville, Fla. Foundation-frame for use in hair-dressing. No. 1,292,100; Jan. 21; v. 258; p. 556.
- Shaffer, Edmund E. W., Wichita, Kans. Pitman. No. 1,318,611; Oct. 14; v. 267; p. 243.
- Shaffer, Frank L. (See Bain and Shaffer.)
- Shaffer, Joseph S., Independence, Mo. Seed-planter. No. 1,299,626; Apr. 8; v. 261; p. 258.
- Shaffer, Robert R., Crawfordville, Iowa. Stock-fountain. No. 1,307,521; June 24; v. 263; p. 523.
- Shaffroth, Ernest G., Kalispell, Mont. Bell-ringing apparatus. No. 1,304,912; May 27; v. 262; p. 560.
- Shaft, Willis S., Faribault, Minn. Stitch-down welt-shoe. No. 1,293,217; Feb. 4; v. 259; p. 56.
- Shailor, Frank E. (See Kuhn and Shailor.)
- Shakespeare, Gilbert A., Birmingham, England. Apparatus for the detection and measurement of gases. No. 1,304,208; May 20; v. 262; p. 387.
- Shaler, Abraham. (See Shaler, Saul, assignor.)
- Shaler, Clarence A., Waupun, Wis. Vulcanizing apparatus. No. 1,312,364; Aug. 5; v. 265; p. 95.
- Shaler, Saul, assignor of one-half to A. Shaler, New York, N. Y. Combination-paddock. No. 1,314,431; Aug. 26; v. 265; p. 573.
- Shambaugh, Raymond L., La Fayette, Ind. Emergency-hub. No. 1,300,034; Apr. 8; v. 261; p. 348.
- Shamberg, Gustave H. (See Cross, Alexander D., assignor.)
- Shambow, John C., assignor to Shambow Shuttle Company, Woonsocket, R. I. Threading-eye for shuttles. No. 1,301,611; Apr. 22; v. 261; p. 738.
- Shambow, John C., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttle. No. 1,324,932; Dec. 16; v. 269; p. 429.
- Shambow, John C., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttle-eye. No. 1,324,933; Dec. 16; v. 269; p. 429.
- Shambow Shuttle Company. (See Shambow, John C., assignor.)
- Shand, David B., Dunedin, New Zealand. Aiming-rest. No. 1,324,934; Dec. 16; v. 269; p. 429.
- Shane, Roy H., Quinter, Kans. Valve. No. 1,308,118; July 1; v. 264; p. 21.
- Shank, Irvin F., Agency, Iowa. Adjustable hanger. No. 1,311,779; July 29; v. 264; p. 825.
- Shank, Joseph H. (See Smithson and Shank.)
- Shank, Joseph H., Blanchester, Ohio. Dental tool. No. 1,300,495; Apr. 15; v. 261; p. 475.
- Shank, Keller, U. S. Army. Rotary internal-combustion engine. No. 1,318,017; Oct. 7; v. 267; p. 68.
- Shank, Thomas M., Bidwell, assignor of one-half to T. J. O'Meara, Cincinnati, Ohio. Driving mechanism for phonographs. No. 1,308,556; July 1; v. 264; p. 100.
- Shanklin, Benjamin M., Springfield, Mass. Strip-punching apparatus. No. 1,320,178; Oct. 28; v. 267; p. 558.
- Shanks, Edward, Belfast, Ireland. Suspenders. No. 1,310,808; July 22; v. 264; p. 613.
- Shannock Narrow Fabric Company. (See Waterfield, John, assignor.)
- Shannon, Duncan W., and T. N. Harris, Key West, Fla. Spark-plug. No. 1,293,218; Feb. 4; v. 259; p. 56.
- Shannon, Hugh S., Detroit, Mich. Hand-truck. No. 1,322,633; Nov. 25; v. 268; p. 555.
- Shannon, Jefferson C., Greenville, Miss. Body-protector. No. 1,302,980; May 6; v. 262; p. 95.
- Shannon, Jesse P., Lake Geneva, Wis. Fish-lure. No. 1,295,617; Feb. 25; v. 259; p. 703.
- Shannon, John W., *et al.* (See Pagendarm, John F., assignor.)
- Shannon, Robert J., Toronto, Ontario, Canada. Vehicle for emergency-plumbing operations. No. 1,317,044; Sept. 23; v. 266; p. 546.
- Shannon, Woodford, Louisville, Ky. Spring structure. No. 1,313,341; Aug. 19; v. 265; p. 331.
- Shantz, Edgar, Rochester, N. Y. Button. No. 1,322,963; Nov. 25; v. 268; p. 656.
- Shapiro, Heyman, Brooklyn, N. Y. Folding-machine. No. 1,305,748; June 3; v. 263; p. 98.
- Sharkey, Dominick W., Syracuse, N. Y. Aeroplane. No. 1,315,044; Sept. 2; v. 266; p. 105.
- Sharlow, Thomas, Yonkers, N. Y. Container for phonographic records. No. 1,316,395; Sept. 16; v. 266; p. 376.
- Sharp, Cecil A. (See Hall and Sharp.)
- Sharp, Charles S., Auburn, N. Y., assignor, by mesne assignments, to International Harvester Company, Harrow. No. 1,310,582; July 22; v. 264; p. 570.
- Sharp, Charles S., Auburn, N. Y., assignor, by mesne assignments, to International Harvester Company. Tandem hitch for disk harrows. No. 1,322,066; Nov. 18; v. 268; p. 436.
- Sharp, Clayton H., White Plains, N. Y., assignor to General Electric Company. Photometer. No. 1,297,260; Mar. 11; v. 260; p. 360.
- Sharp, Herbert M., Buffalo, N. Y. Apparatus for analyzing flue-gases. No. 1,299,865; Apr. 8; v. 261; p. 313.
- Sharp-Hughes Tool Company. (See Hughes, Howard R., assignor.)
- Sharp, Isaac M., San Francisco, Calif. Burner. No. 1,307,320; June 17; v. 263; p. 453.
- Sharp, James A., assignor, by mesne assignments, to International Harvester Company, Springfield, Ohio. Baling-press. No. 1,308,645; July 1; v. 264; p. 117.
- Sharp, John E. (See Bassett and Sharp.)
- Sharp, Lee C., Plattsmouth, Nebr. Motor-vehicle steering mechanism. No. 1,300,886; Apr. 15; v. 261; p. 557.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Can. No. 1,318,809; Oct. 14; v. 267; p. 280.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Mechanical movement. No. 1,324,472; Dec. 9; v. 269; p. 281.
- Sharp, Peter, Perth, Scotland. Means for stopping the delivery of roving in spinning-machines. No. 1,304,610; May 27; v. 262; p. 503.
- Sharp, Richard A. (See Keller and Sharp.)
- Sharp, Robert, Tuckahoe, N. Y. Tie-rod-withdrawing jack. No. 1,298,105; Mar. 25; v. 260; p. 594.
- Sharp, Robert, San Jose, Calif. Wall-finishing composition. No. 1,309,782; July 15; v. 264; p. 393.
- Sharp & Smith. (See Brix, Harold M., assignor.)
- Sharp, Stephen O. (See Lingle, Hiram D., assignor.)
- Sharp, William E., assignor to Grip Nut Company, Chicago, Ill. Lock-nut and constructing the same. No. 1,298,583; Mar. 25; v. 260; p. 697.
- Sharp, Wylie, Montreal, Quebec, Canada. Metal reinforcement for brickwork, concrete, and the like. No. 1,304,815; May 27; v. 262; p. 542.
- Sharpe, James H. (See Sherrod, William H., assignor.)
- Sharples, John D., and T. Crowe, Taftville, Conn., assignors to Old Colony Machine Company, New Bedford, Mass. Robbin-stripping machine. No. 1,309,818; July 15; v. 264; p. 400.
- Sharples, Philip T., St. Davids, Pa. Centrifugal separator. No. 1,320,419; Nov. 4; v. 268; p. 12.
- Sharples Separator Company, The. (See Burdette, Cronin M., assignor.)
- Sharples Specialty Company. (See Ayres, Eugene E., Jr., assignor.)
- Sharples Specialty Company. (See Grosner, Gerald D., assignor.)
- Sharpnack, Lord B., Detroit, Mich. Rotary ventilator. No. 1,314,432; Aug. 26; v. 265; p. 573.
- Sharpnack, Matthew C., Omaha, Nebr. Hydraulic oil-pumping mechanism. No. 1,322,358; Nov. 18; v. 268; p. 491.
- Sharpnack, Matthew C., Jamison, assignor of two-thirds to W. V. Bennett, Omaha, Nebr. Safety-razor. No. 1,298,802; Apr. 1; v. 261; p. 44.
- Sharpnack, Eliel L., Bakersfield, Calif. Plastic composition. No. 1,326,110; Dec. 23; v. 269; p. 665.
- Sharpnack, Eliel L., Bakersfield, Calif., assignor to Romanite Company of America, Boston, Mass. Plastic composition. No. 1,315,342; Sept. 9; v. 266; p. 169.
- Sharps, John A., and I. G. Cufright, Rockhamon, W. Va. Shade-roller. No. 1,306,127; June 10; v. 263; p. 199.
- Sharts, Walter D. (See Fiedemann, Otto, assignor.)
- Shary, John H. (See Briscoe, Willard H., assignor.)
- Shashou, Elias L., Philadelphia, Pa. String instrument. No. 1,291,192; Jan. 14; v. 258; p. 306.



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- Shatkin, Aaron, Brooklyn, N. Y. Collapsible lead-pencil housing. No. 1,292,893; Jan. 28; v. 258; p. 766.
- Shatto, George E., Cleveland, Ohio. Drier. No. 1,297,409; Mar. 18; v. 260; p. 421.
- Shattuck, Frederick A., Norwich, N. Y. Lubricating system. No. 1,312,365; Aug. 5; v. 265; p. 95.
- Shaul, Oliver J., Edmon, Pa. Demountable clutch-rim. No. 1,296,327; Mar. 4; v. 260; p. 116.
- Shaver, Basil F., East St. Louis, Ill. Wire-rope fitting. No. 1,314,542; Sept. 2; v. 266; p. 12.
- Shaw, Albert E. (See Washburn and Shaw.)
- Shaw, Albert P., assignor to Pittsfield Spark Coil Company, Pittsfield, Mass. Spark-plug. No. 1,290,372; Jan. 7; v. 258; p. 86.
- Shaw, Benson R., Dayton, Ohio. Climb-indicator for aircrafts. No. 1,308,557; July 1; v. 264; p. 100.
- Shaw, Byron A. (See Covert and Shaw.)
- Shaw, David J., Kingston, N. Y. Milk-bottle safe. No. 1,325,453; Dec. 16; v. 269; p. 525.
- Shaw, Edward, Toronto, Ontario, Canada. Apparatus for evaporating or concentrating liquids. No. 1,299,793; Apr. 8; v. 261; p. 297.
- Shaw, Edward, London, and G. S. Baker, Middlesex, England. Treatment or preparation of sugar. No. 1,309,425; July 8; v. 264; p. 290.
- Shaw, Edward C., Galesburg, Ill. Automatic stock-feeder. No. 1,290,373; Jan. 7; v. 258; p. 86.
- Shaw, Edward T., Pittsfield, Mass. Magneto-electric machine. No. 1,323,553; Dec. 2; v. 269; p. 63.
- Shaw, Edward T., Pittsfield, Mass., assignor to General Electric Company. Fan-machine. No. 1,295,618; Feb. 25; v. 259; p. 703.
- Shaw, Eugene S., Metaline Falls, Wash. License-tag for automobiles. No. 1,323,325; Dec. 2; v. 269; p. 19.
- Shaw, George A., Toronto, Ontario, Canada. Hand-grenade. No. 1,312,004; Aug. 5; v. 265; p. 28.
- Shaw, George S., Vancouver, British Columbia, Canada. Baby-carriage. No. 1,301,514; Apr. 22; v. 261; p. 721.
- Shaw, James, Chicago, Ill. Piston-ring. No. 1,292,101; Jan. 21; v. 258; p. 556.
- Shaw, James, Chicago, Ill. Motor-vehicle chassis. No. 1,292,102; Jan. 21; v. 258; p. 556.
- Shaw, James, Chicago, Ill. Internal-combustion engine. No. 1,313,608; Aug. 19; v. 265; p. 382.
- Shaw, James, assignor to H. S. Motor Co., Chicago, Ill. Internal-combustion engine. No. 1,292,103; Jan. 21; v. 258; p. 557.
- Shaw, James, assignor to H. S. Motor Co., Chicago, Ill. Internal-combustion engine. No. 1,314,907; Sept. 2; v. 266; p. 80.
- Shaw, James G., San Jose, Calif. Headlight-dimmer. No. 1,324,625; Dec. 9; v. 269; p. 311.
- Shaw, John C., assignor to Keller Mechanical Engraving Company, Brooklyn, N. Y. Oil-feeding mechanism for internal-combustion engines. No. 1,290,374; Jan. 7; v. 258; p. 86.
- Shaw, John C., assignor to Keller Mechanical Engraving Company, Brooklyn, N. Y. Measuring instrument. No. 1,290,375; Jan. 7; v. 258; p. 87.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,302,863; May 6; v. 262; p. 73.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Automobile switch-lock. No. 1,303,825; May 13; v. 262; p. 279.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Door-check. No. 1,311,184; July 29; v. 264; p. 715.
- Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Machine for perforating insulite boards. No. 1,306,283; June 10; v. 263; p. 231.
- Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Ornamental panel or covering. No. 1,312,056; Aug. 5; v. 265; p. 38.
- Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Corner for buildings. No. 1,313,420; Aug. 19; v. 265; p. 346.
- Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Side wall and corner for buildings. No. 1,313,421; Aug. 19; v. 265; p. 346.
- Shaw, Joseph, New York, N. Y., assignor to Rainbow Pictures Corporation. Producing moving pictures in colors. No. 1,300,887; Apr. 15; v. 261; p. 557.
- Shaw, Juan D., Buenos Aires, Argentina. Sewing-machine. No. 1,300,496; Apr. 15; v. 261; p. 475.
- Shaw, Richard, assignor to De Borge & Company Limited, Manchester, England. Metal-punching machine. No. 1,303,603; May 13; v. 262; p. 238.
- Shaw, Robert B., Oak Park, Ill. Combustion-tube for igniters. No. 1,290,376; Jan. 7; v. 258; p. 87.
- Shaw, Robert S., Philadelphia, Pa. Ventilator. No. 1,298,584; Mar. 25; v. 260; p. 697.
- Shaw, Robert S., Port Hope, Ontario, Canada. Circuit-controlling device. No. 1,306,638; June 10; v. 263; p. 296.
- Shaw, Solomon B., Grand Rapids, Mich. Signal. No. 1,313,609; Aug. 19; v. 265; p. 382.
- Shaw, Thomas, Hackensack, N. J., assignor to American Telephone and Telegraph Company. Method and means for correcting irregularities in loaded lines. No. 1,322,634; Nov. 25; v. 268; p. 595.
- Shaw, Walter, Dedham, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,266,014; Mar. 4; v. 260; p. 44.
- Shaw, Walter, Dedham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Presser-foot-opening mechanism. No. 1,315,243; Sept. 9; v. 266; p. 151.
- Shaw, Welsh & Company. (See Knutson, Alfred W., assignor.)
- Shaw, William, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electrode-threading apparatus. No. 1,308,302; July 1; v. 264; p. 54.
- Shaw, William F., Pueblo, Colo. Clasp for plates or removable bridges. No. 1,293,950; Feb. 11; v. 259; p. 257.
- Shaw, William F., Pueblo, Colo. Artificial-tooth attachment. No. 1,301,181; Apr. 22; v. 261; p. 656.
- Shaw, Willis M., Newton, Iowa. Combination manifold and fuel-heater and auxiliary air device. No. 1,291,193; Jan. 14; v. 258; p. 306.
- Shawley, James R., Huntingdon, Pa. Pan-lid. No. 1,317,045; Sept. 23; v. 266; p. 546.
- Shawnee Mower Company. (See Kimball, Harry G., assignor.)
- Shawnee Mower Company. (See Sawtelle, Edmund M., assignor.)
- Shawnee Mower Company. (See Worthington, Charles C., assignor.)
- Shawvan, Walter S., New York, N. Y., assignor, by mesne assignments, to The Esta Company, Boston, Mass. Humidifier for internal-combustion engines. No. 1,297,598; Mar. 18; v. 260; p. 460.
- Shay, James L., Fairfield, Conn. Device for rinsing and sterilizing milk-bottles. No. 1,320,420; Nov. 4; v. 268; p. 12.
- Shea, John A., Wilkes-Barre, Pa. Direction-signal for automobiles. No. 1,308,198; July 1; v. 264; p. 35.
- Shea, John J., Hartford, Conn., assignor to The Hartford Rubber Works Company. Apparatus for separating tires from cores. No. 1,326,294; Dec. 30; v. 269; p. 736.
- Shea, John T., Milford, Conn. Golf-club. No. 1,319,802; Oct. 28; v. 267; p. 518.
- Shea, Thomas J., Portland, Oreg. Magnetic rivet-heater and spot-welder. No. 1,302,230; Apr. 29; v. 261; p. 888.
- Shea, Thomas J., Portland, Oreg. Magnetic dolly-bar. No. 1,302,978; May 6; v. 262; p. 95.
- Shea, Thomas J., Portland, Oreg. Welding plates. No. 1,311,422; July 29; v. 264; p. 759.
- Shea, Michael C., Hancock, Mich. Drill-puller. No. 1,326,426; Dec. 30; v. 269; p. 761.
- Shean, James R., Los Angeles, Calif. Device for indicating the vertical. No. 1,297,921; Mar. 18; v. 260; p. 530.
- Shean, Jeremiah W., Yonkers, N. Y. Nut-lock. No. 1,312,810; Aug. 12; v. 265; p. 212.
- Shear-Klean Grate Company. (See Kohout, George A., assignor.)
- Sheard, John T., Birley Carr, near Sheffield, England. Manufacture of sulfate of ammonia. No. 1,313,023; Aug. 12; v. 265; p. 254.
- Shearer, Joe E., San Francisco, assignor to H. D. Lafferty, Oakland, Calif. Mechanical movement. No. 1,326,468; Dec. 30; v. 269; p. 769.
- Shearer, Oscar, Walla Walla, Wash. Trace-fastener. No. 1,324,414; Dec. 9; v. 269; p. 270.
- Shearer, Samuel B., Chambersburg, Pa. Transparent bank. No. 1,320,421; Nov. 4; v. 268; p. 12.
- Shearer, William A., and C. V. Bruch, Gas City, Ind. Curtain and shade holder. No. 1,297,261; Mar. 11; v. 260; p. 360.
- Shearn, Joseph H., assignor to Nonotuck Silk Company, Leeds, Mass. Collapsible spindle. No. 1,296,864; Mar. 11; v. 260; p. 272.
- Shedaker, Charles A., Philadelphia, Pa. Undergarment. No. 1,321,560; Nov. 11; v. 268; p. 291.
- Shedd, Hugh E., Minneapolis, Minn. Calendar. No. 1,291,194; Jan. 14; v. 258; p. 306.
- Shedlock, Alfred. (See Keesey and Shedlock.)
- Sheehan, Frank J., Crete, Ill. Railway-switch. No. 1,302,475; Apr. 29; v. 261; p. 935.
- Sheehan, James G. (See Rhodes, Guffey, and Sheehan.)
- Sheehan, John, assignor to The Aerated Water Machinery Company, Melbourne, Victoria, Australia. Apparatus for delivering aerated waters and other effervescent beverages. No. 1,302,092; Apr. 29; v. 261; p. 862.
- Sheehan, Thomas J., St. Louis, Mo. Refrigerating apparatus. No. 1,308,812; July 8; v. 264; p. 175.
- Sheeks, Horace M., and F. W. Stein, Atchison, Kans. Electrotherapeutical apparatus. No. 1,313,957; Aug. 26; v. 265; p. 482.
- Sheet Steel Products Company, The. (See Baxter, Kenneth S., assignor.)
- Sheets, Fred M., Kansas City, Mo. Nut-lock. No. 1,314,433; Aug. 26; v. 265; p. 574.
- Sheffield, Daniel B., Venice, Calif. Hairpin. No. 1,319,671; Oct. 21; v. 267; p. 470.
- Sheffield Machine & Tool Company, The. (See Lindgren, Frank G., assignor.)



- Sheffer, Frank S., New Castle, Pa. Car-coupling. No. 1,317,598; Sept. 30; v. 266; p. 688.
- Shehady, David S., San Francisco, Calif. Oil-saver. No. 1,302,231; Apr. 29; v. 261; p. 888.
- Sheidler, Oliver E., Old Fort, Ohio. Attachment for switch-locks. No. 1,292,104; Jan. 21; v. 258; p. 557.
- Shelby Spring Hinge Company, The. (See Malone and Hubbs, assignors.)
- Sheldon, Alvin D., Santa Monica, Calif. Carbureter. No. 1,323,919; Dec. 2; v. 269; p. 131.
- Sheldon, Carson J., Youngstown, Ohio. Sash. No. 1,319,121; Oct. 21; v. 267; p. 365.
- Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Margin-bearer. No. 1,325,760; Dec. 23; v. 269; p. 600.
- Sheldon, Fred E., Springfield, Ohio. Nut-lock. No. 1,299,794; Apr. 8; v. 261; p. 297.
- Sheldon, Walter L., Detroit, Mich. Power steering mechanism. No. 1,309,261; July 8; v. 264; p. 259.
- Sheldon, Ward J., and C. H. Allen, Electra, Tex. Sucker-rod or pull-rod coupling. No. 1,305,311; June 3; v. 263; p. 16.
- Sheldon, William G., Brooklyn, assignor to Remington Typewriter Company, Ilion, N. Y. Combined type-writing and computing machine. No. 1,293,219; Feb. 4; v. 259; p. 56.
- Sheler, John C., and R. B. Austin, Cadillac, Mich. Mounting for the front wheels of trucks. No. 1,298,412; Mar. 25; v. 260; p. 659.
- Shelley, Tillman, Indianapolis, Ind. Light-support. No. 1,302,981; May 6; v. 262; p. 95.
- Shell Company of California. (See Hagenbuch, Walter, assignor.)
- Shell Company of California. (See Thompson, Nelson W., assignor.)
- Shell Company of California. (See Trumble, Milton J., assignor.)
- Sheller, Harry E., Portland, Ind. Automobile steering-wheel. No. 1,324,697; Dec. 9; v. 269; p. 324.
- Shellshear, Wilton. (See Seale and Shellshear.)
- Shelly, William K., deceased; M. S. Frick, administratrix, assignor to The Tiffin Wagon Company, Tiffin, Ohio. Portable liquid-distributing apparatus. No. 1,322,359; Nov. 18; v. 268; p. 491.
- Shelor, Frederick L. and F. C. Schofield, Salem, Va. Engine-priming device. No. 1,300,659; Apr. 15; v. 261; p. 508.
- Shelters, Hiram H., Burlington, Vt. Timer. No. 1,313,561; Aug. 19; v. 265; p. 373.
- Shelton, Carl L., Greenfield, Tenn. Tag or check. No. 1,324,568; Dec. 9; v. 269; p. 300.
- Shelton, Harry J., St. Louis, Mo. Pulverizer. No. 1,302,232; Apr. 29; v. 261; p. 888.
- Shelton, Harry J., St. Louis, Mo. Grinder and shredder. No. 1,307,761; June 24; v. 263; p. 523.
- Shelton, Harry J., St. Louis, Mo. Pulverizer. No. 1,311,535; July 29; v. 264; p. 781.
- Shelton, Harry J., St. Louis, Mo. Feed mechanism for shredders. No. 1,319,122; Oct. 21; v. 267; p. 365.
- Shelton, Henry J., St. Louis, Mo. Retaining-ring for pulverizers. No. 1,322,833; Nov. 25; v. 268; p. 631.
- Shelton, John F., Fort Worth, Tex. Wire-working machine. No. 1,325,047; Dec. 16; v. 269; p. 450.
- Shelton, Stephen B., Sioux City, Iowa. Suspenders. No. 1,290,377; Jan. 7; v. 258; p. 87.
- Shelton, Lawson B., Los Angeles, Calif. Casement window and door. No. 1,304,611; May 27; v. 262; p. 504.
- Shelton, William A., assignor to The Williams Foundry & Machine Company, Akron, Ohio. Auxiliary head for heaters. No. 1,311,252; July 29; v. 264; p. 727.
- Shelton, William G., New York, N. Y. Stirrer. No. 1,317,228; Sept. 30; v. 266; p. 617.
- Shely, Alda M., Chicago, Ill. Machine for treating fibrous materials. No. 1,317,325; Sept. 30; v. 266; p. 635.
- Shemeley, Jesse B. and M. E., El Paso, Tex. Grade-indicator. No. 1,290,793; Jan. 7; v. 258; p. 188.
- Shemeley, Marion E. (See Shemeley, Jesse B. and M. E.)
- Shenk, Otho B., Elida, Ohio. Hog-feeder. No. 1,304,107; May 20; v. 262; p. 368.
- Shepard, Artemas P., Fresno, Calif. Fruit-processing machine. No. 1,317,898; Oct. 7; v. 267; p. 45.
- Shepard, Charles J., assignor of one-fourth to C. Schneider and one-fourth to E. W. Phelps, New Haven, Conn. Detachable heel for boots and shoes. No. 1,320,179; Oct. 28; v. 267; p. 588.
- Shepard, Francis H., New Rochelle, N. Y., assignor to Westinghouse Electric and Manufacturing Company. Electric system. No. 1,305,015; May 27; v. 262; p. 579.
- Shepard Fruit Products Company. (See Shepard, Hulda A., assignor.) (Reissue.)
- Shepard, Henry L., assignor to Pacific Evaporator Company, Portland, Oreg. Drier for evaporating fruits, vegetables, and the like. No. 1,300,497; Apr. 15; v. 261; p. 475.
- Shepard, Hulda A., Lakeside, Wash., assignor to Shepard Fruit Products Company. Article of food. (Reissue.) No. 14,757; Nov. 18; v. 268; p. 621.
- Shepard, Isaac R., River Junction, Fla. Metal screen. No. 1,313,562; Aug. 19; v. 265; p. 373.
- Shepard, Oscar F., assignor to The Warner Elevator Mfg. Company, Cincinnati, Ohio. Elevator-governor. No. 1,291,195; Jan. 14; v. 258; p. 307.
- Shepard, Robert F. (See Wilbee, Thomas J., assignor.)
- Shepard, Wilbur L., West Hartford, assignor to The World Gas Engine Company, Hartford, Conn. Variable and reverse speed mechanism. No. 1,297,599; Mar. 18; v. 260; p. 460.
- Shepard, Wilbur L., West Hartford, assignor to The World Gas Engine Company, Hartford, Conn. Brake mechanism. No. 1,297,600; Mar. 18; v. 260; p. 461.
- Shepard, William C., Seattle, Wash. Prepared package of lubricating-grease. No. 1,309,819; July 15; v. 264; p. 400.
- Shepardson, Charles C., Los Angeles, Calif. Kerosene-burner. No. 1,315,993; Sept. 16; v. 266; p. 301.
- Shepardson, George N., Memphis, Tenn. Window for vehicle-curtains. No. 1,318,234; Oct. 7; v. 267; p. 111.
- Shepardson, George N., Memphis, Tenn. Moisture-shield for motors. No. 1,322,635; Nov. 25; v. 268; p. 595.
- Shepherdson, William T., Larchmont, N. Y. Manufacturing horseshoes. No. 1,324,748; Dec. 9; v. 269; p. 333.
- Shepherd, Christopher C. (See Noll and Shepherd.)
- Shepherd, Alfred W., East Orange, N. J. Flexible shaft-coupling. No. 1,321,249; Nov. 11; v. 268; p. 232.
- Shepherd, Arthur W., assignor of one-half to A. H. Hamel, St. Louis, Mo. Internal-combustion engine. No. 1,312,585; Aug. 12; v. 265; p. 169.
- Shepherd, Charles O., New York, N. Y. Folding crate or box. No. 1,323,109; Nov. 25; v. 268; p. 684.
- Shepherd, Frank D., Salt Lake City, Utah. Internal-combustion engine. No. 1,317,599; Sept. 30; v. 266; p. 689.
- Shepherd, Frank D., Aurora, Ill. Gas-engine. No. 1,318,927; Oct. 14; v. 267; p. 303.
- Shepherd, George R., Brookline, Mass. Oil-can nozzle. No. 1,318,810; Oct. 14; v. 267; p. 280.
- Shepherd, Harold F., assignor to Bessemer Gas Engine Company, Grove City, Pa. Hot-plate apparatus. No. 1,317,899; Oct. 7; v. 267; p. 45.
- Shepherd, Harold F., assignor to Bessemer Gas Engine Company, Grove City, Pa. Hot-plate apparatus for explosive-engines. No. 1,317,900; Oct. 7; v. 267; p. 45.
- Shepherd, Harry T., et al. (See Anderson, Otis W., assignor.)
- Shepherd, John E. (See McElroy and Shepherd.)
- Shepherd, Sanford E., Cincinnati, Ohio. Lock. No. 1,305,016; May 27; v. 262; p. 579.
- Shepler, Harry L., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle-top and cover. No. 1,291,196; Jan. 14; v. 258; p. 307.
- Shepler, Harry L., assignor to The Willys-Overland Company, Toledo, Ohio. Upholstery-mounting. No. 1,298,803; Apr. 1; v. 261; p. 44.
- Sheppard, Charles A. N., Ottawa, Ontario, Canada. Electrical vibrator. No. 1,296,706; Mar. 11; v. 260; p. 236.
- Sheppard, Creedy C., Boston, Mass., assignor to United States Ordnance Company, Washington, D. C. Firearm. No. 1,291,689; Jan. 14; v. 258; p. 422.
- Sheppard, Creedy C., Bridgeport, Conn., assignor to United States Ordnance Company, Washington, D. C. Bore-sighting device. No. 1,295,075; Feb. 18; v. 259; p. 555.
- Sheppard, Floyd B., Wayland, N. Y. Compasses. No. 1,298,585; Mar. 25; v. 260; p. 697.
- Sheppard, Franklin L., assignor to W. L. Sheppard, Philadelphia, Pa. Range. No. 1,300,660; Apr. 15; v. 261; p. 509.
- Sheppard, John, Winston-Salem, N. C. Window-shade roller. No. 1,321,250; Nov. 11; v. 268; p. 232.
- Sheppard, John, Winston-Salem, N. C. Window-shade roller. No. 1,321,251; Nov. 11; v. 268; p. 232.
- Sheppard, John, Winston-Salem, N. C. Window-shade roller. No. 1,321,674; Nov. 11; v. 268; p. 312.
- Sheppard, Robert B., Brady, Tex. Rail-joint. No. 1,326,793; Dec. 30; v. 269; p. 831.
- Sheppard, Samuel E., assignor to Eastman Kodak Company, Rochester, N. Y. Colored photographic element and making the same. No. 1,290,794; Jan. 7; v. 258; p. 188.
- Sheppard, Walter L. (See Sheppard, Franklin L., assignor.)
- Sheppard, William H., assignor to J. A. Sherman, Worcester, Mass. Machine for making paper drinking-cups. No. 1,308,767; July 8; v. 264; p. 167.
- Sheransky, Harry S., Atlantic City, N. J. Torpedo and mine defense for vessels. No. 1,299,243; Apr. 1; v. 261; p. 142.
- Sherbondy, Earl H., Cleveland, Ohio. Turbo-compressor mounting. No. 1,309,549; July 8; v. 264; p. 313.
- Sherbondy, Earl H., Cleveland, Ohio. Cooling and insulating system for turbo-compressors. No. 1,310,672; July 22; v. 264; p. 587.
- Sherbondy, Earl H., Cleveland, Ohio. Turbine-casing. No. 1,310,673; July 22; v. 264; p. 587.
- Sherbondy, Earl H., Cleveland, Ohio. Turbine-casing. No. 1,310,674; July 22; v. 264; p. 588.
- Sherbondy, Earl H., Cleveland, Ohio. Nozzle-ring. No. 1,310,675; July 22; v. 264; p. 588.
- Sherbondy, Earl H., Cleveland, Ohio. Nozzle-ring. No. 1,310,676; July 22; v. 264; p. 588.
- Sherbondy, Earl H., Cleveland, Ohio. Nozzle-ring. No. 1,310,677; July 22; v. 264; p. 588.
- Sherbondy, Earl H., Cleveland, Ohio. Turbine-casing. No. 1,310,678; July 22; v. 264; p. 588.



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- Sherbondy, Earl H., Cleveland, Ohio. Bearing-assembly. No. 1,310,679; July 22; v. 264; p. 588.
- Sherbondy, Earl H., Cleveland, Ohio. Double rotor for turbines and casing therefor. No. 1,310,680; July 22; v. 264; p. 589.
- Sherbondy, Earl H., Cleveland, Ohio. Turbine nozzle-bearing. No. 1,310,681; July 22; v. 264; p. 589.
- Sherbondy, Earl H., Cleveland, Ohio. Duplex turbo-compressor. No. 1,310,682; July 22; v. 264; p. 589.
- Sherbondy, Earl H., Cleveland, Ohio. Supercharging device for turbo-compressors. No. 1,310,683; July 22; v. 264; p. 589.
- Sherbondy, Earl H., Cleveland, Ohio. Turbo-compressor bearing. No. 1,310,684; July 22; v. 264; p. 589.
- Sherbondy, Earl H., assignor, by mesne assignments, to The Frantz Premier Co., Cleveland, Ohio. Washing-machine. No. 1,292,525; Jan. 28; v. 258; p. 678.
- Sherbondy, Earl H., assignor of one-half to R. R. Abbott, Cleveland, Ohio. Gasoline system for engines. No. 1,323,415; Dec. 2; v. 269; p. 36.
- Sherer, George W., et al. (See Cochran, William R., assignor.)
- Sherer, Joseph A. (See Werts, William D., assignor.)
- Sheriff, J. Ed., New York, N. Y. Power transmitting and control mechanism. No. 1,316,599; Sept. 23; v. 266; p. 464.
- Sheridan, Guy E. (See Rossberg and Sheridan.)
- Sheridan, Leslie M., El Paso, Tex. Rotary engine. No. 1,302,233; Apr. 29; v. 261; p. 888.
- Sheridan, Leslie M., El Paso, Tex. Engine. No. 1,302,442; Apr. 29; v. 261; p. 929.
- Sheridan, Matthew J., Blackwell, Okla. Obstetrical instrument. No. 1,295,219; Feb. 25; v. 259; p. 611.
- Sherlock, John F., assignor of one-half to C. L. O'Reilly, New York, N. Y. Ticket-holder, pay-envelope, and the like. No. 1,292,967; Jan. 28; v. 258; p. 784.
- Sherman, C. C. (See Riley, Sherman, and Mock.)
- Sherman, Carlton C., and H. O. Mock, London, England. Anchor, grapple, and the like. No. 1,295,076; Feb. 18; v. 259; p. 555.
- Sherman, Charles G. (See Maddock, Brown, and Sherman.)
- Sherman, Charles W., assignor, by mesne assignments, to Lowes Manufacturing Co., Peoria, Ill. Rubbing device for animals. No. 1,298,804; Apr. 1; v. 261; p. 44.
- Sherman, Chester E. (See Sherman, Harry E. and C. E.)
- Sherman, Clifton W., Buffalo, N. Y. Draft-rigging. No. 1,314,369; Aug. 26; v. 268; p. 561.
- Sherman, Eaton G., Hollywood, Calif. Moth-guard. No. 1,309,820; July 15; v. 264; p. 400.
- Sherman, Guy, Bremerton, Wash. Clamp for sheets. No. 1,312,926; Aug. 12; v. 265; p. 235.
- Sherrell, Guy M., Eastland, Tex. Spark-plug attachment. No. 1,296,126; Mar. 4; v. 260; p. 72.
- Sherman, Harry E. and C. E., Anoka, assignors to Z. H. Austin, trustee, Minneapolis, Minn. Internal-combustion engine. No. 1,310,301; July 15; v. 264; p. 487.
- Sherman, Howard B., Battle Creek, Mich. Scrap-winding reel. No. 1,312,057; Aug. 5; v. 265; p. 38.
- Sherman, Howard B., Battle Creek, Mich. Hose-clamp. No. 1,317,326; Sept. 30; v. 266; p. 636.
- Sherman, Howard B., Battle Creek, Mich. Automobile-jack. No. 1,322,360; Nov. 18; v. 268; p. 491.
- Sherman, Howard B., Battle Creek, Mich. Means for and method of attaching electrical conductors to connectors, &c. No. 1,324,177; Dec. 9; v. 269; p. 224.
- Sherman, Israel S., Brooklyn, N. Y. Vacuum separating apparatus. No. 1,322,361; Nov. 18; v. 268; p. 491.
- Sherman, John A. (See Sheppard, William H., assignor.)
- Sherman, Milton L., Sandusky, N. Y. Auxiliary lever for operating and locking clutch-pedal levers. No. 1,310,302; July 15; v. 264; p. 487.
- Sherman, William T., Troy, assignor, by mesne assignments, to Henry L. Hughes Co. Inc., New York, N. Y. Inserting strips in rubber pads. No. 1,324,178; Dec. 9; v. 269; p. 224.
- Sherman, Willis D., and F. W. Harris, Los Angeles, Calif.; said Harris assignor to said Sherman. Aerial carrier. No. 1,318,114; Oct. 7; v. 267; p. 86.
- Sherman, Willis S., Milwaukee, Wis. Work-arranging conveyor. No. 1,315,994; Sept. 16; v. 266; p. 301.
- Sherman, Willis S., Milwaukee, Wis. End-matcher. No. 1,320,422; Nov. 4; v. 268; p. 12.
- Sherman, Willis S., Milwaukee, Wis. Work-positioning means. No. 1,320,423; Nov. 4; v. 268; p. 13.
- Sherner, Peter C., Ogden, Utah. Aeroplane. No. 1,302,864; May 6; v. 262; p. 73.
- Shero, Isaac K. (See Basolo and Shero.)
- Sherrod, William H., Seattle, Wash. Headlight-lens. No. 1,306,780; June 17; v. 263; p. 354.
- Sherrod, William H., Seattle, Wash., assignor to J. H. Sharpe, San Francisco, Calif. Lens for automobile-headlights. No. 1,323,993; Dec. 2; v. 269; p. 145.
- Sherry, John C., assignor to Sherry Water Tube Boiler Co., Seattle, Wash. Boiler hand-hole plate. No. 1,304,391; May 20; v. 262; p. 423.
- Sherry, John C., assignor to Sherry Water Tube Boiler Co., Seattle, Wash. Steam-boiler. No. 1,304,392; May 20; v. 262; p. 423.
- Sherry, John C., assignor to Sherry Water Tube Boiler Co., Seattle, Wash. Grate-bar. No. 1,304,393; May 20; v. 262; p. 423.
- Sherry Water Tube Boiler Co. (See Sherry, John C., assignor.)
- Shervey, Charles O., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Trunk-locking mechanism. No. 1,325,806; Dec. 23; v. 269; p. 609.
- Sherwin, Aaron H., New York, N. Y. Detachable fur collar for coats. No. 1,299,244; Apr. 1; v. 261; p. 142.
- Sherwin, Frank, Brookings, S. D. Press-drill. No. 1,297,601; Mar. 18; v. 260; p. 461.
- Sherwin, Ralph S., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Apparatus for condensing and utilizing hydrofluoric acid. No. 1,294,546; Feb. 18; v. 259; p. 432.
- Sherwin, Ralph S., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Production of hydrofluoric acid and salts thereof. No. 1,301,325; Apr. 22; v. 261; p. 685.
- Sherwin, Ralph S., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Apparatus for producing aluminum oxid. No. 1,314,709; Sept. 2; v. 266; p. 45.
- Sherwin, Ralph S., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Producing aluminum oxid. No. 1,314,710; Sept. 2; v. 266; p. 45.
- Sherwin, Ralph S., St. Louis, Mo., assignor to Aluminum Company of America, Pittsburgh, Pa. Production of aluminum oxid. No. 1,315,045; Sept. 2; v. 266; p. 105.
- Sherwin-Williams Company. (See McKeogh, Thomas J., assignor.)
- Sherwood, Alexander B. (See Goedike, George G., assignor.)
- Sherwood, Laurence T., Connellsville, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Glass-tank furnace. No. 1,325,172; Dec. 16; v. 269; p. 474.
- Sherwood, Taylor, assignor to M. Levy, New Rochelle, N. Y. Vanity-case. No. 1,290,671; Jan. 7; v. 258; p. 159.
- Sherwood, William E., Canastota, N. Y. Wheel. No. 1,295,619; Feb. 25; v. 259; p. 704.
- Sherwood, William E., Canastota, N. Y. Velocipede. No. 1,308,377; July 1; v. 264; p. 67.
- Shtokin, George, Portland, Oreg. Foldable table and case therefor convertible into benches. No. 1,308,727; July 1; v. 264; p. 132.
- Shetter, Brewster C. (See Barnes, Thomas E., assignor.)
- Shevalier, Frank H., Ithaca, N. Y. Renewable paint cup and scraper. No. 1,293,951; Feb. 11; v. 259; p. 257.
- Shevchenko, Leon, Cortland, N. Y. Water-elevating device. No. 1,323,793; Dec. 2; v. 269; p. 107.
- Shewlin, Charles W. (See Wallertz, Frank, assignor.)
- Shewan, James, Niagara Falls, N. Y. Lifting and carrying apparatus. No. 1,317,046; Sept. 23; v. 266; p. 546.
- Shibata, Katsutaro. (See Horikawa, Shibata, and Hiro.)
- Shibley, Alice P. (See Shibley, George H., assignor.)
- Shibley, George H., assignor to A. P. Shibley, Washington, D. C. Making puttees. No. 1,300,661; Apr. 15; v. 261; p. 509.
- Shields, Ferdinand W., assignor to Wheelless-Wilson Auto Supply Company, Shreveport, La. Grease and oil injector. No. 1,318,928; Oct. 14; v. 267; p. 303.
- Shields, Frank S., and J. A. Camm, Cleveland, Ohio. Machine-tool. No. 1,312,276; Aug. 5; v. 265; p. 78.
- Shields, Frank S., and J. A. Camm, Cleveland, Ohio. Dividing-head for milling-machines. No. 1,312,277; Aug. 5; v. 265; p. 78.
- Shields, George A., assignor to C. H. Martin and B. A. Martin, Columbus, Ohio. Combined glass-machine. No. 1,310,451; July 22; v. 264; p. 546.
- Shields, George W. (See Shields, Guy A., assignor.)
- Shields, Guy A., assignor of one-half to G. W. Shields, Spokane, Wash. Changeable exhibitor. No. 1,299,795; Apr. 8; v. 261; p. 298.
- Shields, Nelson, assignor of one-fourth to H. J. Gunderson, and one-fourth to J. A. Nelson, Minneapolis, and one-fourth to F. W. Adsit, St. Paul, Minn. Spring-motor automobile. No. 1,297,503; Mar. 18; v. 260; p. 440.
- Shields, Rupert A., and C. F. Braybrooke, Luton, England. Carburetor. No. 1,317,047; Sept. 23; v. 266; p. 547.
- Shields, Willie A., Birmingham, Ala. Appliance for applying and removing garment-bags. No. 1,304,913; May 27; v. 262; p. 560.
- Shiels, Michael J., Jersey City, N. J., assignor to Motion Picture Apparatus Company, Inc., New York, N. Y. Method and apparatus for daylight film-developing. No. 1,317,398; Sept. 30; v. 266; p. 649.
- Shiffer, Harry R., Brownstown, Pa. Proportional letter-guide. No. 1,303,505; May 13; v. 262; p. 220.
- Shiga, Heizo, Migita-Mura, Saba-Gun, Yamaguchi-Ken, Japan. Preserving-receptacle. No. 1,316,746; Sept. 23; v. 266; p. 492.
- Shigeta, Seiko, Tokyo, Japan. Molybdenum bronze. No. 1,319,537; Oct. 21; v. 267; p. 445.
- Shigley, Cyrus C., Grand Rapids, Mich. Check or coin control apparatus. No. 1,310,549; July 22; v. 264; p. 564.
- Shilling, Monroe W., and M. Henderson, Indianapolis, Ind. Time-operated cost-computing device. No. 1,322,362; Nov. 18; v. 268; p. 492.



- Shilling, William B., Knox, Ind. Corn-planter. No. 1,317,733; Oct. 7; v. 267; p. 14.
- Shillito, Bernard J., Manchester, England. Rolling-mill. No. 1,310,508; July 22; v. 264; p. 557.
- Shiman, Abraham, Tuckahoe, N. Y. Jewelry. No. 1,305,017; May 27; v. 262; p. 579.
- Shimp, George B., Portland, Ind. Fastening device. No. 1,317,527; Sept. 30; v. 266; p. 674.
- Shindel, Harry F., assignor to T. A. Willson & Co., Inc., Reading, Pa. Eye-cup for goggles. No. 1,296,707; Mar. 11; v. 260; p. 236.
- Shindel, Harry F., assignor to T. A. Willson & Co., Inc., Reading, Pa. Frame-edging for goggles. No. 1,306,357; June 10; v. 263; p. 244.
- Shindel, Harry F., assignor to T. A. Willson & Co., Inc., Reading, Pa. Ventilated goggles. No. 1,322,834; Nov. 25; v. 268; p. 632.
- Shinn, Chester C. (See Slotter, Selden S., assignor.)
- Shinn, Jeannette C., Paducah, Ky. Card game. No. 1,312,278; Aug. 5; v. 265; p. 79.
- Shinozawa, Yusaku, Tokyo Fu, Japan. Type-writer. No. 1,297,020; Mar. 11; v. 260; p. 308.
- Shinskie, Marcus, Coalinga, Calif. Sucker-rod mouse-trap. No. 1,317,229; Sept. 30; v. 266; p. 617.
- Shiplet, C. E. (See Litchfield and Shiplet.)
- Shiplet, Clarence E. (See Litchfield and Shiplet.)
- Shipley, Francis M., Piqua, Ohio. Undergarment. No. 1,297,262; Mar. 11; v. 260; p. 360.
- Shipley, Joseph W., Washington, D. C. Spring-wheel. No. 1,315,343; Sept. 9; v. 266; p. 169.
- Shipley, Pearl, and K. Farrar, London, Ohio. Bottle-stopper extractor. No. 1,294,367; Feb. 11; v. 259; p. 355.
- Shipley, Thomas, York, Pa. Refrigerating or ice-making apparatus. No. 1,325,211; Dec. 16; v. 269; p. 481.
- Shipman, Edward F., Woodhaven, N. Y. Fusible link. No. 1,295,220; Feb. 25; v. 259; p. 611.
- Shipman, Edward F., Woodhaven, N. Y. Fusible link or strut. No. 1,302,234; Apr. 29; v. 261; p. 888.
- Shipman, James R., and J. S. Click, assignors of three-fifths to Bridgewater PLOW Corporation, Bridgewater, Va. Umbrella. No. 1,325,118; Dec. 16; v. 269; p. 464.
- Shippee, Henry C. (See Bergeron, Jasmin P., assignor.)
- Shippen, Thomas C. (See Hansen, Ole, assignor.)
- Shipton, James D., Vancouver, British Columbia, Canada. Electric melting-furnace. No. 1,313,746; Aug. 19; v. 263; p. 408.
- Shirley, Frank, Phoenix, Ariz. Toe-spreader. No. 1,305,749; June 3; v. 263; p. 98.
- Shirley, Harvey G., Highland Park, Mich. Desk. No. 1,293,952; Feb. 11; v. 259; p. 258.
- Shirlow, Albert E., Glen Huntly, near Melbourne, assignor to J. C. Gates, Melbourne, Victoria, Australia. Flier attachment for printing, waxing, cutting, and like machines. No. 1,309,701; July 15; v. 264; p. 378.
- Shirlow, Albert E., Glen Huntly, near Melbourne, and H. W. Hoarse, Garden Vale, near Melbourne, assignors to J. C. Gates, Melbourne, Victoria, Australia. Cutting mechanism specially applicable to paper and other tube machines. No. 1,325,173; Dec. 16; v. 269; p. 474.
- Shivell, Edwin. (See Upham, Artemas B., assignor.)
- Shively, Walter E., and K. B. Kilborn, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Automatic valve-controller. No. 1,317,668; Sept. 30; v. 266; p. 701.
- Shives, Marion. (See Getz and Shives.)
- Shlivek, Max, New York, N. Y. Footrest attachment. No. 1,316,336; Sept. 16; v. 266; p. 365.
- Shockless Electric Corporation. (See Houchin and Lurg, assignors.)
- Shockley, John D., Newberry, S. C. Hen's nest. No. 1,315,046; Sept. 2; v. 266; p. 105.
- Shodin, Albin E., Seattle, Wash. Conveying apparatus. No. 1,316,868; Sept. 23; v. 266; p. 513.
- Shodron, John G., assignor to James Manufacturing Company, Port Atkinson, Wis. Harness-support. No. 1,297,021; Mar. 11; v. 260; p. 308.
- Shoe Hardware Company, The. (See Morse, Walter R., assignor.)
- Shoe Hardware Company, The. (See Müller, Henry, assignor.)
- Shoecraft, Judson, Eskridge, Kans. Absolute and permissible block-signaling system. No. 1,311,718; July 29; v. 264; p. 814.
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Electrode. No. 1,313,125; Aug. 12; v. 265; p. 275.
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Electric-furnace electrode. No. 1,113,126; Aug. 12; v. 265; p. 275.
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Gas-supply for counter-current furnaces. No. 1,317,327; Sept. 30; v. 266; p. 636.
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Polyphase electric furnace. No. 1,317,328; Sept. 30; v. 266; p. 636.
- Shoemaker, George W., Dalton, Pa. Washboard. No. 1,311,624; July 29; v. 264; p. 797.
- Shoemaker, Harry. (See Weagant and Shoemaker.)
- Shoemaker, Isaac L., assignor to The Cumberland Glass Mfg. Co., Bridgeton, N. J. Machine for grinding glass stoppers. No. 1,298,261; Mar. 25; v. 260; p. 628.
- Shoemaker, James E., Lebanon, Ohio. Chicken-coop. No. 1,294,960; Feb. 18; v. 259; p. 529.
- Shoemaker, John F., Des Moines, Iowa, assignor, by mesne assignments, to J. T. Guerin and D. B. McDonald, Chicago, Ill. Check-cutter and check-book holder. No. 1,304,209; May 20; v. 262; p. 387.
- Shoemaker, John F., Des Moines, Iowa, assignor, by mesne assignments, to Protectu Corporation, Chicago, Ill. Combined check, check-book holder, and cutter. No. 1,305,941; June 3; v. 263; p. 135.
- Shoemaker, Joseph A., Brooklyn, N. Y. Clothes-hanger. No. 1,293,953; Feb. 11; v. 259; p. 258.
- Shoemaker, Robert J., Milwaukee, Wis. Manufacturing metal articles by cold-drawing. No. 1,325,761; Dec. 23; v. 269; p. 600.
- Shoemaker, Samuel M. (See Patten, John, assignor.)
- Shoenberg, Milton H., San Francisco, and F. Talcott, Burlingame, Cal., assignor to Majestic Electric Development Company. Current determinator and indicator. No. 1,291,197; Jan. 14; v. 258; p. 307.
- Shoenberg, Milton H., San Francisco, Cal. Automaton. No. 1,292,105; Jan. 21; v. 258; p. 557.
- Shomaker, Wesley P., Richmond, Va. Safety-shutter. No. 1,302,093; Apr. 29; v. 261; p. 862.
- Shong, Carl F. (See Wiley, William S., assignor.)
- Shonnard, Harold W., et al. (See Peets and Shonnard, assignors.)
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Manufacturing highly compressed projectiles. No. 1,292,106; Jan. 21; v. 258; p. 558.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Apparatus for the manufacture of projectiles. No. 1,292,107; Jan. 21; v. 258; p. 558.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Projectile. No. 1,292,108; Jan. 21; v. 258; p. 558.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Distance-gear for automobile torpedoes. No. 1,296,328; Mar. 4; v. 260; p. 116.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Torpedo steering unit. No. 1,296,329; Mar. 4; v. 260; p. 116.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Gyroscopic steering mechanism. No. 1,296,330; Mar. 4; v. 260; p. 117.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Gyroscope spinning mechanism. No. 1,296,331; Mar. 4; v. 260; p. 117.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Diving-gear. No. 1,296,332; Mar. 4; v. 260; p. 117.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Automobile torpedo. No. 1,296,333; Mar. 4; v. 260; p. 117.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Gyroscopically-controlled torpedo. No. 1,296,334; Mar. 4; v. 260; p. 117.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Launching-tube. No. 1,296,335; Mar. 4; v. 260; p. 118.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Crucible Steel Company of America, Pittsburgh, Pa. Automobile torpedo. No. 1,302,982; May 6; v. 262; p. 96.
- Shonnard, Orlando D. (See Peets and Shonnard.)
- Shoop, Martin O. (See Alverson, Lewis, assignor.)
- Shoop, Martin O. (See Holmes, Louis W., assignor.)
- Shope Brick Co., The. (See Shope, David F., assignor.)
- Shope, David F., assignor to The Shope Brick Co., Portland, Ore. Brickmaking-machine. No. 1,306,977; June 17; v. 263; p. 390.
- Shorb, William A., assignor to Leader Iron Works, Decatur, Ill. Pump. No. 1,303,975; May 20; v. 262; p. 345.
- Shorday, Walter W., North Philadelphia, assignor of one-half to H. M. Fretz, Philadelphia, Pa. Locking-block. No. 1,317,329; Sept. 30; v. 266; p. 636.
- Shore, Charles P., Hicksville, N. Y. Amusement device. No. 1,291,198; Jan. 14; v. 258; p. 307.
- Shores-Mueller Company. (See McAlister, Robert L., assignor.)
- Shores, William T., et al. (See Norman, Frank, assignor.)
- Shorey, John A., New York, N. Y., assignor to General Electric Company. Flow-meter. No. 1,301,182; Apr. 22; v. 261; p. 656.
- Shorman, Chauncey, Chicago, Ill. Process of and apparatus for dehydrating fruits, vegetables, &c. No. 1,324,072; Dec. 9; v. 269; p. 204.
- Shorman, Chauncey, Chicago, Ill. Dehydrating apparatus. No. 1,324,073; Dec. 9; v. 269; p. 204.
- Shorrocks, Arthur, North Adams, Mass. Corset-stay. No. 1,297,742; Mar. 18; v. 260; p. 492.



## Alphabetical list of patentees—Continued.

- Shorrocks, Herbert, Chorlton-on-Medlock, England. Coloring of photographic and cinematographic pictures. No. 1,303,506; May 13; v. 262; p. 220.
- Shorrocks, Herbert, Manchester, England. Means for producing cinematographic pictures with stereoscopic effects. No. 1,324,179; Dec. 9; v. 269; p. 224.
- Short, Albert E., et al. (See Mitchell, Ewen H., assignor.)
- Short, Albert W., et al. (See Menge, Anton C., assignor.)
- Short, Charles R., assignor to General Motors Company, Detroit, Mich. Accessory drive for motor-vehicles. No. 1,291,199; Jan. 14; v. 258; p. 308.
- Short, George M., Litchfield, Calif. Grass-divider. No. 1,311,016; July 22; v. 264; p. 650.
- Short, Hugh O., et al. (See Mitchell, Ewen H., assignor.)
- Short, Hugh O., Rochester, Kent, England. Landing and launching device for floating structures. No. 1,320,180; Oct. 28; v. 267; p. 588.
- Short, Otto R. (See Pentler and Short.)
- Shortell, William H., Yonkers, assignor to Harlem Contracting Company, New York, N. Y. Block-press. No. 1,291,659; Jan. 14; v. 258; p. 416.
- Shorts, Nelson T., Fern, Pa. Stopcock or valve. No. 1,322,964; Nov. 25; v. 268; p. 656.
- Shortt, Everett T., Dallas, Tex. Coffee-roaster. No. 1,299,245; Apr. 1; v. 261; p. 143.
- Shortwriter Company. (See Edwards, Alvah B., assignor.)
- Shotwell, Marcus A. K., Miami, Fla. Automobile-tire. No. 1,313,506; Aug. 19; v. 265; p. 362.
- Shultz, Earl K., Vincennes, Ind. Internal-combustion engine. No. 1,291,200; Jan. 14; v. 258; p. 308.
- Shoun, Daniel B. (See Shoun, David M. and D. B.)
- Shoun, David M. and D. B., Mountain City, Tenn. Wire-fence tool. No. 1,314,434; Aug. 26; v. 265; p. 574.
- Shoup, Louis H., and E. H. Webb, Montrose, Colo. Tire-valve. No. 1,315,995; Sept. 16; v. 266; p. 302.
- Shovestul, Joseph C., West Decatur, Pa. Railway-tie. No. 1,324,698; Dec. 9; v. 269; p. 324.
- Showalter, Henry, Hurley, Okla. Broom-holder. No. 1,299,796; Apr. 8; v. 261; p. 298.
- Showalter, Jay B. F., Pekin, Ill. Cross-referencing tabs used in systems of indexing. No. 1,300,662; Apr. 15; v. 261; p. 509.
- Showers, Abner G. (See Stewart, William M., assignor.)
- Shuparago, Harry, Kankakee, Ill. Table. No. 1,315,344; Sept. 9; v. 266; p. 169.
- Shreeve, Herbert E., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube socket. No. 1,325,865; Dec. 23; v. 269; p. 620.
- Shreves, Frederick G., Denver, Colo. Obtaining oil from shale. No. 1,297,022; Mar. 11; v. 260; p. 308.
- Shreves, Frederick G., Denver, Colo. Conveying material and generating power. No. 1,324,074; Dec. 9; v. 269; p. 204.
- Shriver, Frederick, Georgetown, S. C. Heat-retainer. No. 1,303,122; May 6; v. 262; p. 123.
- Shroyer, Jacob L., Oak Park, Ill. assignor of one-half to C. O. Hard, Kansas City, Mo. Folding sink, basin, and the like. No. 1,317,829; Oct. 7; v. 267; p. 32.
- Shrum, Isaac, Nevada, Mo. Removable tray for travelers' bags. No. 1,291,201; Jan. 14; v. 258; p. 308.
- Shrum, Peter J., Monaca Heights, assignor to Colona Manufacturing Company, Pittsburgh, Pa. Die. No. 1,320,501; Nov. 4; v. 268; p. 27.
- Shuck, George W., Lawrence, Kans. Flour sifter and scale. No. 1,305,303; July 1; v. 264; p. 54.
- Shucy, Philip M., Savannah, Ga. Manufacture of fertilizer material. No. 1,293,220; Feb. 4; v. 259; p. 56.
- Shuffleton, Wilford P., assignor to Gem Crib & Cradle Company, Gardner, Mass. Corner-joint for cribs, cradles, and the like. No. 1,325,335; Dec. 16; v. 269; p. 504.
- Shuford, John F. (See Dean and Shuford.)
- Shulenberger, Jay G., and L. Whitright, Lodi, Ohio. Mail-bag-delivering device. No. 1,308,261; July 1; v. 264; p. 46.
- Shuler, Isaac, et al. (See Hughes, John L., assignor.)
- Shuler, Oliver E., and H. L. Tex, Elma, Iowa. Car-rack. No. 1,295,806; Feb. 25; v. 259; p. 746.
- Shull, Franklin M. (See Shull, Jesse E., F. M., and J. W.)
- Shull, Jesse E., F. M., and J. W., Alpena, S. D. Jack for containers. No. 1,295,377; Feb. 25; v. 259; p. 646.
- Shull, John W. (See Shull, Jesse E., F. M., and J. W.)
- Shults, James C., Meadville, Pa. Lock-nut. No. 1,309,421; July 8; v. 264; p. 289.
- Shultz, Walter C. (See Johnson, Sinclair J., assignor.)
- Shultz, William M. (See Dyer, Charles W., assignor.)
- Shultz, William M., St. Louis, Mo. Distributing-roller for printing-presses. No. 1,294,961; Feb. 18; v. 259; p. 529.
- Shulz, Karl B., New York, N. Y. Fuse-plug. No. 1,320,424; Nov. 4; v. 268; p. 13.
- Shuman, Cleo G., Chicago, Ill. assignor to Gyp Steel Products Company. Building structure and plaster-board-anchorage means. No. 1,308,199; July 1; v. 264; p. 35.
- Shuman, Constantine and V., Philadelphia, Pa., assignors to The Super-Glass Company. Reinforced glass and making the same. No. 1,324,361; Dec. 9; v. 269; p. 250.
- Shuman, Frank, deceased, Philadelphia, Pa.; Y. J. Shuman and C. H. Dunker, administrators. Submarine and operating the same. No. 1,310,253; July 15; v. 264; p. 479.
- Shuman, Victor. (See Shuman, Constantine and V.)
- Shuman, Y. Josephine, et al., administrators. (See Shuman, Frank.)
- Shun, Nicholas, Minneapolis, Minn. Hand snow-plow. No. 1,319,972; Oct. 28; v. 267; p. 550.
- Shupe, Norman, Long Beach, Calif. Game apparatus. No. 1,316,513; Sept. 16; v. 266; p. 399.
- Shupp, Clarence C., Muskegon Heights, Mich. Locking device for robes and the like. No. 1,324,180; Dec. 9; v. 269; p. 224.
- Shur, Edward J., New Orleans, La. Inner door for cars. No. 1,305,838; June 3; v. 263; p. 115.
- Shurloc Elevator Safety Co. (See Dunford, William T., assignor.)
- Shurnuff Manufacturing Company. (See Dean and Shurnuff, assignors.)
- Shurter, Cecil, Kingston, N. Y. Level. No. 1,311,423; July 29; v. 264; p. 760.
- Shurtleff, Ralph, St. Louis, Mo. Flue-stop. No. 1,314,222; Aug. 26; v. 265; p. 532.
- Shurtleff, Ralph, St. Louis, Mo. Stovepipe-thimble. No. 1,321,675; Nov. 11; v. 268; p. 312.
- Shurtleff, Ralph, St. Louis, Mo. Stovepipe-fastener. No. 1,321,676; Nov. 11; v. 268; p. 312.
- Shurtliff, Wilfred, assignor to Moline Heat, Moline, Ill. Antisiphon-seal for heating systems. No. 1,304,612; May 27; v. 262; p. 504.
- Shuster, Elmore F., New Haven, Conn. Wire straightening and cutting-off machine. No. 1,313,024; Aug. 12; v. 265; p. 255.
- Shute, Edmund H., Chicago, Ill. Electric-light-switch operator. No. 1,301,183; Apr. 22; v. 261; p. 657.
- Shute, John A. (See Duncan and Shute.)
- Shutt, Edward W., Pueblo, Colo., assignor to American Clay Products Company, St. Louis, Mo. Conveyor system. No. 1,293,561; Feb. 4; v. 259; p. 136.
- Shutt, Vernon F. (See Campfield and Shutt.)
- Shuttleworth, Charles J., Buffalo, N. Y., assignor of one-half to C. J. Warnick, Washington, D. C. Engine. No. 1,308,813; July 8; v. 264; p. 175.
- Shuttleworth, Newton, and G. M. Brown, Rugby, England, assignors to General Electric Company. Induction-motor control. No. 1,304,210; May 20; v. 262; p. 387.
- Shutts, Samuel B. (See Wendell and Shutts.)
- Shwab, Hugh M., Louisville, Ky. Tire-gage. No. 1,302,443; Apr. 29; v. 261; p. 930.
- Shwab, Hugh M., Louisville, Ky. Gage. No. 1,314,435; Aug. 26; v. 265; p. 574.
- Shyer, James D., Detroit, Mich. Door-brace. No. 1,304,394; May 20; v. 262; p. 424.
- Sibbald, Charles J. and C. T. A., Troy, N. Y. Film-indicator. No. 1,303,732; May 13; v. 262; p. 261.
- Sibbald, Charles T. A. (See Sibbald, Charles J. and C. T. A.)
- Sibbett, George E. (See Hopfield, Lewis D., assignor.)
- Sibert, Nicholas S., Savonburg, Kans. Means for cutting off water from lower strata of drilled wells. No. 1,326,141; Dec. 23; v. 269; p. 670.
- Sibley, Edward W., assignor to Winchester Repeating Arms Co., New Haven, Conn. Hand-trap for clay pigeons. No. 1,306,393; June 10; v. 263; p. 251.
- Sibley, Henry J. (See Ohmer, Crouch, and Sibley.)
- Sibley, James T., Newark, N. J. Combined tone-arm and stop device for talking-machines. No. 1,313,342; Aug. 19; v. 265; p. 331.
- Sibley, James T., Newark, N. J. Automatic stop for phonograph-motors. No. 1,325,119; Dec. 16; v. 269; p. 464.
- Sibley, Leon L., Monroe Bridge, Mass. Mandrel. No. 1,296,127; Mar. 4; v. 260; p. 72.
- Sibley, Rupert R., assignor to American Canning Corporation, Atlanta, Ga. Steamer. No. 1,290,378; Jan. 7; v. 258; p. 87.
- Sibley, Samuel J. (See Buckner and Sibley.)
- Sibson & Stern. (See Branson, Thomas, assignor.)
- Sibson, Walter W. (See Allsop and Sibson.)
- Sibson, Walter W., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Transmission-chain. No. 1,316,747; Sept. 23; v. 266; p. 492.
- Sicher, Dudley D., New York, N. Y. Self-serving appliance. No. 1,319,803; Oct. 28; v. 267; p. 518.
- Siddleley-Deasy Motor Car Company. (See Green, Frederick M., assignor.)
- Side, Frederick W. (See Reid and Side.)
- Sidebotham, Melvin H., Chiltondale, Mass., assignor to E. W. Labombarde, Nashua, N. H. Machine for making tubular box-shells. No. 1,298,586; Mar. 25; v. 260; p. 697.
- Sidell, William E. (See Irvin and Sidell.)
- Sidenstricker, Guy, and J. W. Miller, Mount Clare, W. Va. Wooden pump. No. 1,308,814; July 8; v. 264; p. 176.
- Sidey, Paul D., and G. L. Harley, Goldfield, Colo. Automatic filter-scraper shifter. No. 1,296,865; Mar. 11; v. 260; p. 273.
- Sidwell, Benjamin W., Buffalo, N. Y., assignor to The Beaver Company. Size for wood-fiber products. No. 1,313,343; Aug. 19; v. 265; p. 332.



- Sidwell, Mahlon A., Los Angeles, Cal. Stuffing and packing machine. No. 1,294,104; Feb. 11; v. 259; p. 294.
- Siebert, Herman C., South Bethlehem, Pa. Gas-burner. No. 1,298,805; Apr. 1; v. 261; p. 44.
- Siebert, Rudolph R., assignor to Art In Buttons, Inc., Rochester, N. Y. Button. No. 1,318,235; Oct. 7; v. 267; p. 111.
- Siebrandt, John R., Kansas City, Mo. Buck extension. No. 1,296,128; Mar. 4; v. 260; p. 72.
- Sieck, William, Jr. (See Drucker and Sieck.).
- Siecke, Werner. (See Siemen and Siecke.).
- Siedenfeld, Samuel, *et al.* (See Hodgson, George F., assignor.)
- Siegel, Anna. (See Siegel, Samuel, assignor.)
- Siegel, Elmer M., and I. O'Connell, Girard, Ohio. Clothing-rack. No. 1,322,835; Nov. 25; v. 268; p. 632.
- Siegel, Ernest, assignor of one-half to M. Cooper, New York, N. Y. Shock-absorber. No. 1,313,643; Aug. 19; v. 265; p. 389.
- Siegel, Frederick, Irvington, N. J., assignor to Deposited Metal Products Co. Making jackets for engine-cylinders. No. 1,293,562; Feb. 4; v. 259; p. 137.
- Siegel, Herbert, Philadelphia, Pa. Combined toy and game apparatus. No. 1,296,129; Mar. 4; v. 260; p. 72.
- Siegel, Samuel, assignor to A. Siegel, New York, N. Y. Metallophone. No. 1,291,202; Jan. 14; v. 258; p. 308.
- Siegel, Samuel, assignor to A. Siegel, Chicago, Ill. Musical educational chart. No. 1,309,915; July 15; v. 264; p. 418.
- \*Siegenthaler, George, Fremont, Ohio. Hame-loop. No. 1,292,109; Jan. 21; v. 258; p. 558.
- Siegenthaler, George, Fremont, Ohio. Hame attachment. No. 1,310,636; July 22; v. 264; p. 581.
- Siegert, Chester V., Grayville, Ill. Adjustable tractor plow-hitch. No. 1,320,937; Nov. 4; v. 268; p. 109.
- Siegfried, Clarence E., Akron, assignor of one-half to W. Hoyt, Cleveland Heights, Ohio. Non-skid cushion suction-heel. No. 1,303,841; May 13; v. 262; p. 282.
- Slegienski, Joseph E., Thorp, Wis. Fountain-pen. No. 1,297,602; Mar. 13; v. 260; p. 461.
- Siegler, Arthur A., Minneapolis, Minn. Humidifying device. No. 1,325,587; Dec. 23; v. 269; p. 568.
- Siegler, Edouard H., Washington, D. C. Insect-trap. No. 1,293,563; Feb. 4; v. 259; p. 137.
- Siegler, Otto, Belleville, Ill. Combined gas and coal range. No. 1,307,762; June 24; v. 263; p. 566.
- Sieglwart, Josef. (See Reber and Sieglwart.)
- Sieling, Louis O., Perham, Minn. Hinge for shields. No. 1,295,620; Feb. 25; v. 259; p. 704.
- Siemann, Henry M., Fort Lupton, Colo. Flag-holder. No. 1,325,807; Dec. 23; v. 269; p. 609.
- Siemantel, Edward L., Topeka, Kans. Oil-container. No. 1,302,865; May 6; v. 262; p. 73.
- Siemen, Otto, Nonnendamm, near Berlin, and W. Siecke, assignors to Siemens-Schuckertwerke, G. m. b. H., Berlin, Germany. Rotary blower or pump. No. 1,322,363; Nov. 18; v. 268; p. 492.
- Siemens & Halske. (See Von Marchthal, Eduard, assignor.)
- Siemens & Halske, A. G. (See Bucky, Gustav, assignor.)
- Siemens & Halske, A. G. (See Gardien, Hans, assignor.)
- Siemens & Halske, A. G. (See Grabe, Georg, assignor.)
- Siemens & Halske, A. G. (See Grabe, See, Lubberger, Fröblich, and Rütter, assignors.)
- Siemens & Halske, A. G. (See Huth, Max, assignor.)
- Siemens & Halske, A. G. (See Langer, Max, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Nolte, Fritz, assignor.)
- Siemens & Halske, Aktiengesellschaft. (See Von Siemens, Wilhelm, assignor.)
- Siemens Schuckert-Werke G. m. b. H. (See Hirsch, Johannes, assignor.)
- Siemens-Schuckert Werke, G. m. b. H. (See Trettin, Carl, assignor.)
- Siemens-Schuckertwerke, G. m. b. H. (See Ruedenberg, Reinhold, assignor.)
- Siemens-Schuckertwerke, G. m. b. H. (See Siemen and Siecke, assignors.)
- Siemens-Schuckertwerke, G. m. b. H. (See Werner, Albert, assignor.)
- Siemund, Adam. (See Milewski, Joseph, assignor.)
- Siemund, Herman, Chicago, Ill. Adjustable support for telephones. No. 1,325,759; Dec. 23; v. 269; p. 599.
- Sievelding, Martinus, New York, N. Y. Mobile figure. No. 1,322,364; Nov. 18; v. 268; p. 492.
- Siever, Hughes L., Erie, Pa. Method and compound for welding steel and other metals. No. 1,315,611; Sept. 9; v. 266; p. 217.
- Sieverkropp, Henry F. J., Hood River, Oreg. Insecticide-sprayer. No. 1,316,514; Sept. 16; v. 266; p. 399.
- Sieverling, Fred A., Great Bend, Kans. Underfeed furnace. No. 1,306,194; June 10; v. 263; p. 212.
- Sievert, Herman A., U. S. Army. Saddle. No. 1,321,397; Nov. 11; v. 268; p. 260.
- Sievert, Herman A., U. S. Army. Saddle. No. 1,321,398; Nov. 11; v. 268; p. 261.
- Sieverts, Wilhelm C. A., Quincy, assignor to L. C. Marshall, East Walpole, Mass. Priming device for explosion-motors. No. 1,323,651; Dec. 2; v. 269; p. 80.
- Siggers, Edward G. (See Lockhart, Andrew B., assignor.)
- Sigler, Boyd A., Sioux Falls, S. D. Aerial bomb. No. 1,312,005; Aug. 5; v. 265; p. 28.
- Sigmon, Myer, Cleveland, Ohio. Heater for automobile radiators. No. 1,321,482; Nov. 11; v. 268; p. 276.
- Signal Gesellschaft m. b. H. (See Rudolph, Wilhelm K. J., assignor.)
- Sigouin, Adolord, St. Agathe des Monts, Quebec, Canada. Flushing device for toilets. No. 1,306,285; June 10; v. 263; p. 231.
- Sigourney Tool Company, The. (See Clark, Ernest W., assignor.)
- Sigrist, Frederick, Kingston-on-Thames, England. Strut, spar, or the like for use in aircraft construction. No. 1,303,507; May 13; v. 262; p. 221.
- Sikirica, Mosier, Fort Barrancas, Fla. Landing device for aeroplanes. No. 1,305,312; June 3; v. 263; p. 16.
- Sikora, Frank, Philadelphia, Pa. Machine for dyeing stockings or the like. No. 1,301,184; Apr. 22; v. 261; p. 657.
- Sikking, Robert W., East St. Louis, Ill. Loose-seat cover. No. 1,326,216; Dec. 30; v. 269; p. 722.
- Silberman, Samuel G., assignor to seven one-hundredths to J. H. McGrew, Philadelphia, Pa. Non-skid chain for vehicle-tires. No. 1,292,526; Jan. 28; v. 258; p. 678.
- Silbernagel, Fred, assignor of one-third to E. T. Erickson, Oak Park, and one-third to W. A. Hansen, Chicago, Ill. Boring-machine. No. 1,300,663; Apr. 15; v. 261; p. 509.
- Silfverling, Birger. (See Cervin and Silfverling.)
- Sill Stove Works. (See Will, Philip and F., assignors.)
- Silley, John H., Bickley, and E. F. Spanner, Brockley, London, England. Construction of ships. No. 1,323,920; Dec. 2; v. 269; p. 131.
- Silliman, Justus M., London, Ontario, Canada. Demountable metal tire for vehicle-wheels. No. 1,306,286; June 10; v. 263; p. 231.
- Silloway, Frederick D., Springfield, Ill. Steam-escape fixture for machine-gun water-jackets. No. 1,294,349; Feb. 11; v. 259; p. 351.
- Sills, Berton H., assignor of one-fourth to A. Lipson, Toronto, Ontario, Canada. Fender for motor-cars. No. 1,301,880; Apr. 29; v. 261; p. 822.
- Sills, Harry A., Oblong, Ill. Valve-lifter. No. 1,316,925; Sept. 23; v. 266; p. 524.
- Silva, Antone J., Santa Maria, Calif. Automobile-theft signal. No. 1,307,933; June 24; v. 263; p. 598.
- Silva, Antonio G., Honolulu, Hawaii. Combination-tool. No. 1,317,048; Sept. 25; v. 266; p. 547.
- Silva, John P., Rockport, Mass. Door-latch. No. 1,301,326; Apr. 22; v. 261; p. 685.
- Silverman, Paulane, New York, N. Y. Seat for baby-carriages. No. 1,302,444; Apr. 29; v. 261; p. 930.
- Silver, Bennett C., Chicago, Ill. Child's vehicle. No. 1,310,218; July 15; v. 264; p. 472.
- Silver, Conover T., New York, N. Y. Automobile-hood. No. 1,314,436; Aug. 26; v. 265; p. 574.
- Silver, Frank D., Germantown, Calif. Sanitary drinking apparatus; No. 1,297,410; Mar. 18; v. 260; p. 421.
- Silver, Henry C., New York, N. Y. Article of jewelry adapted to count. No. 1,324,524; Dec. 9; v. 269; p. 291.
- Silver, Herman, Minneapolis, Minn. Cupola-ventilator for barns and the like. No. 1,312,586; Aug. 12; v. 265; p. 169.
- Silver, Jesse W., South Tacoma, assignor to W. J. Jeffries, Tacoma, Wash. Carbon-removing and lubricating attachment for internal-combustion engines. No. 1,325,381; Dec. 16; v. 269; p. 512.
- Silverberg Import Company. (See Silverberg, Isidore, assignor.)
- Silverberg, Isidore, Far Rockaway, N. Y., assignor to Silverberg Import Company, Incorporated. Veil. No. 1,293,221; Feb. 4; v. 259; p. 56.
- Silverman, Alexander, Pittsburgh, Pa. Illuminator for microscopes. No. 1,311,185; July 29; v. 264; p. 715.
- Silverman, Alexander, Pittsburgh, Pa. Illuminator for microscopes. No. 1,311,186; July 29; v. 264; p. 715.
- Silverman, Herman, New York, N. Y. Automobile-signal. No. 1,292,655; Jan. 28; v. 258; p. 710.
- Silvermann, Edwin M., assignor to Harris Suspender Company, New York, N. Y. Garment-supporter. No. 1,322,836; Nov. 25; v. 268; p. 632.
- Silvermail, William L., assignor of one-half to H. M. Geer, Binghamton, N. Y. Stripping mechanism. No. 1,314,759; Sept. 2; v. 266; p. 53.
- Silverstein, Morris L., Methuen, Mass. Adjustable window-fastener. No. 1,291,203; Jan. 14; v. 258; p. 309.
- Silverthorne, Frank H., New York, N. Y. Ink-bottle stopper. No. 1,314,489; Aug. 26; v. 265; p. 583.
- Silverthorne, Mary W., Martins, S. C. Portable combined cotton picking, ginning, condensing, and compressing machine. No. 1,314,437; Aug. 26; v. 265; p. 574.
- Silvey, Montie M., Kansas City, Mo. Pipe-bender. No. 1,298,106; Mar. 25; v. 260; p. 594.
- Silvia, Anthony R., New Bedford, Mass. Shuttle. No. 1,290,379; Jan. 7; v. 258; p. 87.
- Silvius, Ellis T., Indianapolis, Ind. Transmission and controlling gearing. No. 1,322,965; Nov. 25; v. 268; p. 656.
- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,299,246; Apr. 1; v. 261; p. 143.



*Alphabetical list of patentees—Continued.*

- Silvius, Ellis T., Indianapolis, Ind., assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,299,247; Apr. 1; v. 261; p. 143.
- Simanik, Charles, Calder Station, Saskatchewan, Canada. Flying-machine. No. 1,306,082; June 10; v. 263; p. 190.
- Simanik, Charles, Calder Station, Saskatchewan, Canada. Airship-station. No. 1,320,579; Nov. 4; v. 268; p. 42.
- Sime, Robert, St. Andrews, Scotland. Traction-coupling device. No. 1,323,326; Dec. 2; v. 269; p. 19.
- Slmek, Charles, Chicago, Ill., assignor to The Garford Manufacturing Company, Elyria, Ohio. Automobile-horn. No. 1,318,613; Oct. 14; v. 267; p. 243.
- Simek, Frank, assignor to Columbia Fastener Company, Chicago, Ill. Garment-fastener. No. 1,319,659; Oct. 21; v. 267; p. 468.
- Simmen Automatic Railway Signal Company, The. (See Chatfield, Clarence E., assignor.)
- Simmen Automatic Railway Signal Company, The. (See Ringer, Luther, assignor.)
- Simmen Automatic Railway Signal Company. (See Ringer, Luther, assignor.)
- Simmen, Paul J., Buffalo, N. Y. Automatic moving-vehicle control. No. 1,308,558; July 1; v. 264; p. 100.
- Simmen, Paul J., Buffalo, N. Y. Speed-control system. No. 1,315,345; Sept. 9; v. 266; p. 169.
- Simmen, Paul J., Buffalo, N. Y. Speed-control system. No. 1,315,346; Sept. 9; v. 266; p. 170.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,296,015; Mar. 4; v. 260; p. 45.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,298,107; Mar. 25; v. 260; p. 594.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,300,300; Apr. 15; v. 261; p. 433.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,315,996; Sept. 16; v. 266; p. 302.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,321,484; Nov. 11; v. 268; p. 276.
- Simmon, Karl A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,321,483; Nov. 11; v. 268; p. 276.
- Simmon, Karl A., Edgewood Park, and A. J. Hall Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. No. 1,291,204; Jan. 14; v. 258; p. 309.
- Simmon, Karl A., Edgewood Park, and H. T. Morris, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. No. 1,292,656; Jan. 28; v. 258; p. 710.
- Simmon, Karl A., Edgewood Park, and H. T. Morris, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. (Reissue.) No. 14,610; Mar. 11; v. 260; p. 371.
- Simmon, Karl A., Edgewood Park, and L. G. Riley, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Protective device for trolley systems. No. 1,308,120; July 1; v. 264; p. 21.
- Simmonds, Francis N., San Francisco, Calif. Counterbore. No. 1,308,304; July 1; v. 264; p. 55.
- Simmons, Allen R., Stanberry, Mo. Stock-feeder. No. 1,297,743; Mar. 18; v. 260; p. 492.
- Simmons, Ben, assignor of one-half to M. Hamond, Larkins, Fla. Rolling-screen. No. 1,323,499; Dec. 2; v. 269; p. 53.
- Simmons, Benjamin S. (See Barr and Simmons.)
- Simmons, Charles A., Fairfield, Ill. Aeroplane. No. 1,308,997; July 8; v. 264; p. 210.
- Simmons Company. (See Friel, Patrick H., assignor.)
- Simmons Company. (See Gail, John F., assignor.)
- Simmons Company. (See Travis, Don C., assignor.)
- Simmons Forced Draft Company. (See Simmons, Lee H., assignor.)
- Simmons, Howard E. and P. R. Huntington, Ind. Automobile or truck wheel. No. 1,310,303; July 15; v. 264; p. 488.
- Simmons, Hoyt P. (See Talbot, William W., assignor.)
- Simmons, Jesse C., assignor to The Four Drive Tractor Co. Inc., Big Rapids, Mich. Tractor. No. 1,321,561; Nov. 11; v. 268; p. 291.
- Simmons, John W., Cleveland, Ohio. Antifriction-bearing. No. 1,294,183; Feb. 11; v. 259; p. 313.
- Simmons, Lawrence C., Joplin, Mo. Vaporizer for internal-combustion engines. No. 1,319,628; Oct. 21; v. 267; p. 462.
- Simmons, Lee H., assignor to Simmons Forced Draft Company, Goldsboro, N. C. Furnace-grate. No. 1,321,252; Nov. 11; v. 268; p. 232.
- Simmons Manufacturing Company, The. (See Simmons, Paul R., assignor.)
- Simmons, Oliver G., San Antonio, Tex. Boll-cotton separator and cleaner. No. 1,310,304; July 15; v. 264; p. 488.
- Simmons, Oliver G., Rochester, N. Y. Involute-curve-generating machine. No. 1,326,696; Dec. 30; v. 269; p. 812.
- Simmons, Oliver G., assignor to Simmons Wheel Company, San Antonio, Tex. Pressed-metal wheel. No. 1,325,120; Dec. 16; v. 269; p. 464.
- Simmons, Paul R. (See Simmons, H. E. and P. R.)
- Simmons, Paul R., assignor to The Simmons Manufacturing Company, Huntington, Ind. Milk-bottle-cap-making machine. No. 1,297,023; Mar. 11; v. 260; p. 309.
- Simmons, Walter B. (See Staley and Simmons.)
- Simmons Wheel Company. (See Simmons, Oliver G., assignor.)
- Simms, Earl E., and G. W. Johnson, Longmont, Colo. Automatic carriage for stackers. No. 1,319,629; Oct. 21; v. 267; p. 462.
- Simms, Frederick R., assignor of one-half to Simms Motor Units, Limited, Rathbone Place, London, England. Shaft-coupling. No. 1,310,845; July 22; v. 264; p. 619.
- Simms, Harold H. (See Denio, William L., assignor.)
- Simms, Harold S. (See Beck, Alwin, assignor.)
- Simms, Joseph A., assignor of one-half to J. H. Gregg and G. A. Gregg, and one-fourth to A. Laszlo, Detroit, Mich. Motor. No. 1,297,263; Mar. 11; v. 260; p. 360.
- Simms, Joseph A., assignor of one-half to J. H. Gregg and G. A. Gregg, and one-fourth to A. Laszlo, Detroit, Mich. Aeroplane. No. 1,297,264; Mar. 11; v. 260; p. 360.
- Simms Magneto Company, The. (See Huff, Edward S., assignor.)
- Simms Motor Units, Limited. (See Simms, Frederick R., assignor.)
- Simon, Adolph, London, England. Watch and other bracelet. No. 1,313,644; Aug. 19; v. 265; p. 389.
- Simon, Adolph, London, England. Slack-absorber for bracelets or the like. No. 1,313,645; Aug. 19; v. 265; p. 389.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,299,248; Apr. 1; v. 261; p. 144.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Resistance unit. No. 1,303,404; May 13; v. 262; p. 202.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,307,836; June 24; v. 263; p. 580.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-breaker. No. 1,315,426; Sept. 9; v. 266; p. 184.
- Simon, Arthur, assignor to The Cutler Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 1,318,508; Oct. 14; v. 267; p. 223.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnet. No. 1,325,048; Dec. 16; v. 269; p. 450.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnet. No. 1,325,049; Dec. 16; v. 269; p. 450.
- Simon, Arthur, Milwaukee, Wis., and E. O. Sessions, Chicago, Ill., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Vaporizer. No. 1,292,657; Jan. 28; v. 258; p. 711.
- Simon, August J. (See Richards, Simon, and Haas.)
- Simon, Charles, Newark, N. J. Shock-absorbing suspension for vehicles. No. 1,318,018; Oct. 7; v. 267; p. 68.
- Simon, Emil. (See Willson, Russell A., assignor.)
- Simon, Grant M., Philadelphia, Pa. Building-block. No. 1,291,205; Jan. 14; v. 258; p. 309.
- Simon, Henry, Laguna Beach, Calif. Rule. No. 1,299,627; Apr. 8; v. 261; p. 258.
- Simon, Henry, Laguna Beach, Calif. Combination-square. No. 1,308,815; July 8; v. 264; p. 176.
- Simon, Jacques, assignor to Société Anonyme la Photogravure Rotative, Paris, France. Production of intaglio plates or cylinders for printing letter-press. No. 1,322,206; Nov. 18; v. 268; p. 462.
- Simon, Jules. (See Sarron and Simon.)
- Simon, Louis J., and G. Chavanne, Paris, France. Manufacture of monochloroacetic acid. No. 1,304,108; May 20; v. 262; p. 368.
- Simon, Maurice, assignor to Fire Top Manufacturing Company, St. Louis, Mo. Luminous spinning-top. No. 1,319,123; Oct. 21; v. 267; p. 365.
- Simon, Ramsay A. (See Parsons, Walker, Cook, and Simon.)
- Simon, Richard, J. A. Gauthier, and F. J. Hauser, Norway, Mich. Bushing-remover. No. 1,304,109; May 20; v. 262; p. 369.
- Simond, Walter A., assignor to The Gyro Pump Company, Franklin, N. H. Centrifugal pump. No. 1,295,621; Feb. 25; v. 259; p. 704.
- Simonds Manufacturing Company. (See Culley, Walter E., assignor.)
- Simons, Chris R., Armour, S. D. Draft appliance. No. 1,306,443; June 10; v. 263; p. 260.
- Simons, Donald M. (See Davis and Simons.)
- Simons, Harry, New York, N. Y. Device relating to garment-formers. No. 1,321,253; Nov. 11; v. 268; p. 233.
- Simons, Harry B., Montezano, Wash. Traction coupling or hitch. No. 1,296,563; Mar. 4; v. 260; p. 167.
- Simons, Walter R., Pasadena, Calif. Brick-wall construction. No. 1,323,110; Nov. 25; v. 268; p. 684.



- Simons, William, Baltimore, Md. Bicycle side car. No. 1,302,476; Apr. 29; v. 261; p. 935.
- Simonsen, Niels C., Laurin, Mont. Animal-releasing device. No. 1,295,622; Feb. 25; v. 259; p. 704.
- Simonson, Fenwick W., assignor of one-half to W. W. Snell, Sherman, Calif. One-piece live-wire self-holder. No. 1,301,012; Apr. 15; v. 261; p. 584.
- Simonson, William W., and L. V. D. Blair, Cincinnati, Ohio, assignors to The Mantle Lamp Company of America, Chicago, Ill. Indurated organic substance and preparing the same. No. 1,309,967; July 15; v. 264; p. 428.
- Simpelaar, Jacob G., Milwaukee, Wis., assignor, by mesne assignments, to The Studebaker Corporation, Detroit, Mich. Rear-axle housing. No. 1,295,221; Feb. 25; v. 259; p. 611.
- Simplex Corporation. (See De Martino, Joseph, assignor.)
- Simplex Electric Heating Company. (See Hewitt, Frank W., assignor.)
- Simplex Player Action Company. (See Brown, Theodore P., assignor.)
- Simplex Valve & Meter Company. (See Borden, Moro M., assignor.)
- Simplex Wire & Cable Co. (See Boggs, Charles R., assignor.)
- Simpson, Cassius M., Cincinnati, Ohio. Display-box. No. 1,319,973; Oct. 28; v. 267; p. 550.
- Simpson, Charles R. (See Eaton and Simpson.)
- Simpson, Clara B., Winnetka, Ill. Fastening device. No. 1,295,623; Feb. 25; v. 259; p. 705.
- Simpson, David B., Wichita, Kans. Automobile alarm-lock. No. 1,321,854; Nov. 18; v. 268; p. 397.
- Simpson, Frank F., U. S. Army. Folding bed. No. 1,311,719; July 29; v. 264; p. 814.
- Simpson, Hall B., and D. Hood, Westminster, Tex. Dirigible headlight. No. 1,324,852; Dec. 16; v. 269; p. 414.
- Simpson, Hobart A. (See Stockdale and Simpson.)
- Simpson, Hugh W. (See Gordon and Simpson.)
- Simpson, James E., Brooklyn, N. Y. Type-writing machine. No. 1,317,180; Sept. 30; v. 266; p. 608.
- Simpson, James E., and C. J. Paulson, Brooklyn, N. Y. Means for renovating phonograph-needles. No. 1,292,894; Jan. 28; v. 258; p. 767.
- Simpson, James E., Brooklyn, assignor to Corona Type-writer Company, Inc., Groton, N. Y. Line-ruling device for type-writing machines. No. 1,311,921; Aug. 5; v. 265; p. 13.
- Simpson, James R. (See Smith, McOsker, and Simpson.)
- Simpson, John T., Newark, N. J. Roofing. No. 1,320,502; Nov. 4; v. 268; p. 27.
- Simpson, John T., Newark, N. J. Flying-machine. No. 1,323,321; Dec. 2; v. 269; p. 18.
- Simpson, John T., assignor to Economy Sales Company, Chicago, Ill. Furnace-grate and vaporizer construction. No. 1,313,127; Aug. 12; v. 265; p. 275.
- Simpson, John W., Cloverdale, Ala. Apparatus for curing hay and the like. No. 1,323,416; Dec. 2; v. 269; p. 36.
- Simpson, Joseph F. T., Chicago, Ill. Tractor. No. 1,318,019; Oct. 7; v. 267; p. 69.
- Simpson, Lowe E., assignor to The Orville Simpson Company, Cincinnati, Ohio. Mill-roll marker. No. 1,291,206; Jan. 14; v. 258; p. 309.
- Simpson, Norman R., Elizabeth City, assignor of one-sixteenth to N. A. Jones, two-sixteenths to J. C. Overman, five-sixteenths to C. M. Harris, Elizabeth City, and four-sixteenths to C. B. Spencer, Swanquarter, N. C. Electric starter for automobiles. No. 1,292,110; Jan. 21; v. 258; p. 559.
- Simpson, Richard M., Wellington, New Zealand. Post-marking-machine. No. 1,299,249; Apr. 1; v. 261; p. 144.
- Simpson, Robert, Cincinnati, Ohio. Resin-recovering process. No. 1,308,768; July 8; v. 264; p. 168.
- Simpson, Robert C. (See Grieshaber and Simpson.)
- Simpson, Robert D. (See Lloyd and Simpson.)
- Simpson, Robert D., assignor to The Columbus Steel Products Company, Columbus, Ohio. Support for meters. No. 1,315,244; Sept. 9; v. 266; p. 151.
- Simpson, Robert M., Sparks, Kans. Punch. No. 1,325,309; Dec. 16; v. 269; p. 500.
- Simpson, Rufus A., Oakland, Calif. Butter-cutter. No. 1,302,983; May 6; v. 262; p. 96.
- Simpson, Rufus A., Oakland, Calif. Dumping butter-mold. No. 1,306,128; June 10; v. 263; p. 199.
- Simpson, Seiden L., assignor of one-half to W. E. Currie, Detroit, Mich. Vehicle-wheel. No. 1,292,111; Jan. 21; v. 258; p. 559.
- Simpson, Stuart D., and F. C. La Grice, Sarnia, Ontario, Canada. Holder for use in fitting doors. No. 1,292,112; Jan. 21; v. 258; p. 559.
- Simpson, Sumner, Bridgeport, Conn., assignor to Raybestos Company. Making friction-facings. No. 1,301,612; Apr. 22; v. 261; p. 738.
- Simpson, Walter C., and J. A. Stewart, Oakland, Calif., said Simpson assignor to said Stewart. Sash-adjuster. No. 1,325,417; Dec. 16; v. 269; p. 519.
- Simpson, William L., assignor to O. L. Warner, Vancouver, British Columbia, Canada. Block-side guard for upright-shingle-machine saws. No. 1,302,445; Apr. 29; v. 261; p. 930.
- Simpson, William M., Portland, Oreg. Multiple-propeller boat. No. 1,303,508; May 13; v. 262; p. 221.
- Simpson, William P., Haupai, New Zealand. Harness for agricultural implements. No. 1,313,921; Aug. 26; v. 265; p. 474.
- Sims, Alfred V., New York, N. Y. Process and apparatus for manufacturing articles from paper-pulp. No. 1,324,935; Dec. 16; v. 269; p. 430.
- Sims Automatic Conveyor Company. (See Sims, Mirabeau, assignor.)
- Sims, Emmett M., Louisville, Ky. Spark-observer. No. 1,314,908; Sept. 2; v. 266; p. 80.
- Sims, Frederick L. H., Toronto, Ontario, Canada. Rail-anchor. No. 1,313,747; Aug. 19; v. 265; p. 408.
- Sims, Frederick L. H., Toronto, Ontario, Canada. Folding bed. No. 1,326,295; Dec. 30; v. 269; p. 736.
- Sims, Frederick L. H., assignor to The Diaphone Signal Company, Limited, Toronto, Ontario, Canada. Key-bolt. No. 1,313,748; Aug. 19; v. 265; p. 408.
- Sims, Frederick L. H., assignor to Sims Improved Rail Anchor Company, Limited, Toronto, Ontario, Canada. Clamp. No. 1,320,425; Nov. 4; v. 268; p. 13.
- Sims Improved Rail Anchor Company. (See Sims, Frederick L. H., assignor.)
- Sims, Mirabeau, Llanerch, Pa., assignor to Sims Automatic Conveyor Company Incorporated. Translating and cooling material. No. 1,300,784; Apr. 15; v. 261; p. 535.
- Sims, Mirabeau, Llanerch, Pa., assignor to Sims Automatic Conveyor Company, Incorporated. Translating material. No. 1,303,604; May 13; v. 262; p. 238.
- Sims, Richard, Newark, N. J. Nail-clip. No. 1,290,380; Jan. 7; v. 258; p. 87.
- Simson, George, British Navy, assignor of one-half to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Gun-mounting. No. 1,305,839; June 3; v. 263; p. 115.
- Sinclair, Archibald F. (See Doane, Burrows, and Sinclair.)
- Sinclair, Arnold F., New York, N. Y. Drier. No. 1,294,547; Feb. 18; v. 259; p. 433.
- Sinclair, Earl M. (See Bales, Walter S., assignor.)
- Sinclair, Harry R. (See Monahan, Peter, assignor.)
- Sinclair, Herbert A., Renton, Wash. Safety rigging-book. No. 1,300,231; Apr. 8; v. 261; p. 392.
- Sinclair, John J., Upper Montclair, N. J., assignor to Megosin Company, Inc. Voltage-regulating means for storage batteries. No. 1,306,315; June 10; v. 263; p. 236.
- Sinclair, Junia, Edgewood, R. I. Pencil attachment. No. 1,322,966; Nov. 25; v. 268; p. 656.
- Sinclair, Neil, Oakland, Calif. Closet-bed. No. 1,303,509; May 13; v. 262; p. 221.
- Sinclair, Thomas C., Newport, Isle of Wight, England. Sight for ordnance. No. 1,304,816; May 27; v. 262; p. 542.
- Sinding-Larsen, Alf, Vestre Aker, near Christiania, Norway. Transforming iron sponge into solid iron. No. 1,306,928; June 17; v. 263; p. 382.
- Sinding-Larsen, Alf, Vestre Aker, near Christiania, Norway. Method and means for the utilization of the thermic effect of cathode rays. No. 1,326,794; Dec. 30; v. 269; p. 831.
- Sines, Harold S., assignor to Minerallac Electric Company, Chicago, Ill. Time-switch. No. 1,300,498; Apr. 15; v. 261; p. 475.
- Sines, Harold S., assignor to Minerallac Electric Company, Chicago, Ill. Time-switch. No. 1,309,426; July 8; v. 264; p. 290.
- Sines, Harold S., assignor to Minerallac Electric Company, Chicago, Ill. Periodically-operated mechanism. No. 1,309,427; July 8; v. 264; p. 290.
- Singelyn, Charles G., Detroit, Mich. Electric automatic air regulation for automobile gas-engines. No. 1,324,436; Dec. 9; v. 269; p. 274.
- Singer, Abraham, Cleveland, Ohio. Barrette. No. 1,316,981; Sept. 23; v. 266; p. 534.
- Singer Auto Traffic Signal Company. (See Singer, Charles A., assignor.)
- Singer, Charles A., assignor to Singer Auto Traffic Signal Company, St. Louis, Mo. Traffic-directing signal for vehicles. No. 1,321,254; Nov. 11; v. 268; p. 233.
- Singer, Frank J., assignor to American Pressweld Radiator Corporation, Detroit, Mich. Radiator. No. 1,313,212; Aug. 12; v. 265; p. 291.
- Singer, Harry. (See Zipin and Singer.)
- Singer, Joseph B., Brooklyn, and A. B. Levy, New York, N. Y. Combined carton and display device. No. 1,294,312; Feb. 11; v. 259; p. 343.
- Singer Manufacturing Company, The. (See Allen and Wood, assignors.)
- Singer Manufacturing Company, The. (See Barron, William L., assignor.)
- Singer Manufacturing Company, The. (See Barron and Osol, assignors.)
- Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
- Singer Manufacturing Company, The. (See Cameron, Dugald, assignor.)
- Singer Manufacturing Company, The. (See Corral, Herbert, assignor.)



*Alphabetical list of patentees—Continued.*

- Singer Manufacturing Company, The. (See Crockett, William P., assignor.)
- Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
- Singer Manufacturing Company, The. (See Dosch and Hemleb, assignors.)
- Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)
- Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
- Singer Manufacturing Company, The. (See Greene and Buchner, assignors.) (Reissue.)
- Singer Manufacturing Company. (See Harmon, Frank L., assignor.)
- Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
- Singer Manufacturing Company, The. (See Karle, John D., assignor.)
- Singer Manufacturing Company, The. (See Fehle, Leo C., assignor.)
- Singer Manufacturing Company, The. (See Le Fevre, Eugene F., assignor.)
- Singer Manufacturing Company, The. (See Morris, Thomas F., assignor.)
- Singer Manufacturing Company, The. (See Myers, Walter, assignor.)
- Singer Manufacturing Company, The. (See Nash, Guy M., assignor.)
- Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
- Singer Manufacturing Company, The. (See Ströbeck, Frans T., assignor.)
- Singer Manufacturing Company, The. (See Thomas, Carlyle W., assignor.)
- Singer Manufacturing Company, The. (See Thomas and Bradley, assignors.)
- Singer Manufacturing Company, The. (See Waterman, Max L., assignor.)
- Singer Manufacturing Company, The. (See Webb, Irving F., assignor.)
- Singer Manufacturing Company, The. (See Wood, Alfred R., assignor.)
- Singer, William F., assignor of one-fourth to himself, one-fourth to A. V. Fagerstrom, one-fourth to F. Clasby, and one-fourth to J. E. Fairbanks, Pueblo, Colo. Composition for mending fissures in castings. No. 1,291,207; Jan. 14; v. 258; p. 309.
- Singletary, Charles E., Chicago, Ill. Account-book. No. 1,316,114; Sept. 16; v. 266; p. 323.
- Singletary, Emerson W. (See Bizette, Arthur F., assignor.)
- Singletary, Emerson W., Morganza, La. Pencil-vending machine. No. 1,300,888; Apr. 15; v. 261; p. 557.
- Singletary, Emerson W., Morganza, La. Pencil-vending machine. No. 1,315,687; Sept. 9; v. 266; p. 230.
- Singleton, Clifton E., Brooklyn, N. Y. Fastening means. No. 1,319,660; Oct. 21; v. 267; p. 468.
- Singleton, James D., Houston, Tex. Jack. No. 1,310,637 July 22; v. 264; p. 581.
- Singleton, Stephen G., Burke, Idaho. Plate-lifter. No. 1,299,797; Apr. 8; v. 261; p. 298.
- Singleton, Stephen G., Burke, Idaho. Toothpick-holder. No. 1,311,625; July 29; v. 264; p. 797.
- Singleton, Thomas F., Edmonton, Alberta, Canada. Machine for facing valve-seats. No. 1,321,855; Nov. 18; v. 268; p. 397.
- Singmaster, Jacob E., Sebastopol, Calif. Press. No. 1,303,826; May 13; v. 262; p. 279.
- Singmaster, James A. (See Breyer, Singmaster, and Hall.)
- Singmaster, James A., New York, N. Y.; F. G. Breyer and E. H. Bunce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Manufacture of zinc oxid. No. 1,322,142; Nov. 18; v. 268; p. 450.
- Singmaster, James A., New York, N. Y.; F. G. Breyer and E. H. Bunce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Production of metal oxides and other compounds of metals. No. 1,322,143; Nov. 18; v. 268; p. 450.
- Sinn, Charles J., and H. G. Wells, Crisfield, Md. Cancellation. No. 1,312,587; Aug. 12; v. 265; p. 169.
- Sinott, Joseph W., Brooklyn, N. Y. Shelf construction. No. 1,325,174; Dec. 16; v. 269; p. 474.
- Sinsheimer, Benjamin F., Portland, Oreg. Knockdown barrel or like container. No. 1,292,895; Jan. 28; v. 258; p. 762.
- Sintz, Claude, assignor to Steel King Motor Plow Company, Detroit, Mich. Tractor. No. 1,298,262; Mar. 25; v. 260; p. 628.
- Sintzel, Leonard T., Los Angeles, Calif. Detachable automobile-tire tread. No. 1,311,720; July 29; v. 264; p. 815.
- Sipes, Ira W., Wilmette, Ill. Storm-sash bracket. No. 1,306,929; June 17; v. 263; p. 382.
- Sipes, Turman L., Freeport, Pa. Gate. No. 1,299,250; Apr. 1; v. 261; p. 144.
- Sipher, Edmund F., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Operating mechanism for valves. No. 1,308,262; July 1; v. 264; p. 46.
- Sippel, William H., Indianapolis, Ind. Spark-plug. No. 1,320,803; Nov. 4; v. 268; p. 83.
- Slipperly, John E., assignor to United Shirt & Collar Company, Troy, N. Y. Stock for neckwear. No. 1,299,514; Apr. 8; v. 261; p. 232.
- Slipperly, John E., Troy, N. Y., assignor, by mesne assignments, to W. A. Tooke, Montreal, Quebec, Canada. Collar. No. 1,310,550; July 22; v. 264; p. 564.
- Slipperly, John E., assignor to United Shirt & Collar Company, Troy, N. Y. Collar. No. 1,314,986; Sept. 2; v. 266; p. 94.
- Siquiera, Edward C., Oakland, Calif. Coin sorter and register. No. 1,306,195; June 10; v. 263; p. 212.
- Sir W. G. Armstrong, Whitworth and Company. (See Hadcock, Albert G., assignor.)
- Sir W. G. Armstrong Whitworth & Company. (See Le Mesurier, Louis J., assignor.)
- Sir W. G. Armstrong, Whitworth and Company. (See Lee, Hugh W., assignor.)
- Sir W. G. Armstrong, Whitworth and Company. (See Mole, Ernest H., assignor.)
- Sir W. G. Armstrong, Whitworth and Company, Limited. (See Simson, George, assignor.)
- Sir W. G. Armstrong, Whitworth and Company. (See Waddingham and Taylor, assignors.)
- Sir W. G. Armstrong, Whitworth and Company. (See Wale, Charles, assignor.)
- Sir W. G. Armstrong-Whitworth and Company. (See Wilson and Dalby, assignors.)
- Sir W. G. Armstrong-Whitworth and Company Limited. (See Wilson and Dalby, assignors.)
- Siren, Frank W., Detroit, Mich., and E. Tavastila, Donora, Pa. Belt-shifting device. No. 1,311,095; July 22; v. 264; p. 665.
- Siren, Gustaf, Donora, Pa. Control mechanism for gas-lamps. No. 1,313,184; Oct. 7; v. 267; p. 100.
- Sirrine, Joseph E., Greenville, S. C. Oiling device for silent chains. No. 1,314,438; Aug. 26; v. 265; p. 574.
- Siskin, Harry, assignor of one-half to H. S. Cahn, Los Angeles, Cal. Davenport. No. 1,291,208; Jan. 14; v. 258; p. 310.
- Sisson, Eugene A., Worcester, Mass., assignor to Universal Patents Company, Woonsocket, R. I. Pocketed carrier equipment. No. 1,294,840; Feb. 18; v. 259; p. 501.
- Sisson, Eugene A., assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Pocketed carrier. No. 1,310,377; July 15; v. 264; p. 501.
- Sisson, Isaac H., Providence, R. I., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Machine for making hairpins. No. 1,319,909; Oct. 28; v. 267; p. 538.
- Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Sheet-metal end-wall construction for railway-cars. No. 1,299,251; Apr. 1; v. 261; p. 145.
- Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Sheet-steel car end. No. 1,313,128; Aug. 12; v. 265; p. 275.
- Sisson, Vinton E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Pressed-steel car end. No. 1,321,399; Nov. 11; v. 268; p. 261.
- Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Reinforced sheet-steel end wall for railway-cars. No. 1,324,569; Dec. 9; v. 269; p. 300.
- Sisson, William D., New York, N. Y., assignor to The American Salvage Company, West New York, N. J. Submarine vessel. No. 1,321,562; Nov. 11; v. 268; p. 291.
- Sisti Safety Can Company. (See Sisti, Salvatore L., assignor.)
- Sisti, Salvatore L., assignor to Sisti Safety Can Company, Chicago, Ill. Storage and dispensing vessel. No. 1,298,108; Mar. 25; v. 260; p. 594.
- Sitney, Massey, Brooklyn, N. Y. Steering device for ships. No. 1,319,182; Oct. 21; v. 267; p. 378.
- Sitts, Jacob B., Wampsville, N. Y. Trap. No. 1,296,437; Mar. 4; v. 260; p. 139.
- Sitts, William H., Chicago, Ill. Resilient vehicle-wheel. No. 1,323,794; Dec. 2; v. 269; p. 107.
- Sivard, Reuben A., assignor of one-half to E. Taylor, Oklahoma, Okla. Guitar. No. 1,317,830; Oct. 7; v. 267; p. 32.
- Siver, Charles W., assignor to Edward P. Bates Co., Inc., Syracuse, N. Y. Sprinkler-head. No. 1,298,109; Mar. 25; v. 260; p. 595.
- Sivokon, Elia O., New York, N. Y. Sewing-machine head-guard. No. 1,298,413; Mar. 25; v. 260; p. 659.
- Six, Joseph F. (See Fromager and Six.)
- Sizer, Albert W., Hesse, near Kingston-upon-Hull, England. Press. No. 1,312,811; Aug. 12; v. 265; p. 213.
- Sjogren, George, assignor to H. Obce and D. A. McPherson, Toronto, Ontario, Canada. Oil-can spout. No. 1,314,156; Aug. 26; v. 265; p. 519.
- Sjolander, Gustaf, Midland, Mich. Combined bumper and lifting-jack for motor-vehicles. No. 1,326,795; Dec. 30; v. 269; p. 831.
- Sjolander, Henning R., Ishpeiming, Mich. Electric-circuit tester. No. 1,315,531; Sept. 9; v. 266; p. 203.
- Sjöman, Karl F., Stockholm, Sweden. Reversing means for two or multi cylinder internal-combustion engines. No. 1,293,564; Feb. 4; v. 259; p. 137.



- Sjöström, John G., Jönköping, Sweden. Method of and means for filling match-splints into conveyer-plates and the like. No. 1,292,896; Jan. 28; v. 258; p. 767.
- Sjöström, Martin G., Upsala, assignor to Svenska Aktiebolaget Gasaccumulator, Stockholm, Sweden. Crystal detector for wireless telegraphy. No. 1,319,804; Oct. 28; v. 267; p. 518.
- Skahen, Patrick D., Syracuse, N. Y. Antiskid device for vehicle-wheels. No. 1,294,716; Feb. 18; v. 259; p. 472.
- Skaife, Charles, Liverpool, England. Apparatus for displaying announcements, advertisements, or the like. No. 1,304,395; May 20; v. 262; p. 424.
- Skala, Louis, Rosebud, Tex. Bottle-cap. No. 1,290,859; Jan. 7; v. 258; p. 202.
- Skall, Max A., New York, N. Y. Collapsible lantern. No. 1,318,614; Oct. 14; v. 267; p. 243.
- Skalla, Charles N., Milwaukee, Wis. Sanitary overflow-valve. No. 1,307,460; June 24; v. 263; p. 512.
- Skandora, Jakob, Racine, Wis. Stop means. No. 1,300,232; Apr. 8; v. 261; p. 392.
- Skantz, Thor, Duluth, Minn. Erector's come-along. No. 1,317,145; Sept. 23; v. 266; p. 565.
- Skare, Clarence, Kenyon, Minn. Automatic water-pump. No. 1,292,897; Jan. 28; v. 258; p. 767.
- Skaupy, Franz, assignor to Deutsche Gasglühlicht Aktien-gesellschaft (Auergesellschaft), Berlin, Germany. Electric gas or vapor lamp. No. 1,291,209; Jan. 14; v. 258; p. 310.
- Skell, John H., Parkersburg, Iowa. Swing. No. 1,320,714; Nov. 4; v. 268; p. 66.
- Skelly, Bernard H., Bridgeport, Conn., assignor to F. R. Mount, Botsford, Conn. Auxiliary breather-pipe at attachment. No. 1,309,262; July 8; v. 264; p. 259.
- Skelly, Bernard H., Bridgeport, Conn. Swivel connection for force-feed lubricators. No. 1,317,734; Oct. 7; v. 267; p. 14.
- Skelly, Bernard H., Bridgeport, Conn. Solderless pipe-joint. No. 1,317,735; Oct. 7; v. 267; p. 14.
- Skelly, Bernard H., Bridgeport, Conn. Force-feed lubricator. No. 1,317,901; Oct. 7; v. 267; p. 46.
- Skelly, Bernard H., Bridgeport, Conn. Force-feed lubricator. No. 1,323,554; Dec. 2; v. 269; p. 63.
- Skelly, Bernard H., Bridgeport, Conn. Force-feed lubricator. No. 1,326,142; Dec. 23; v. 269; p. 671.
- Skelly, Bernard H., assignor to The Smith & Egge Mfg. Co., Bridgeport, Conn. Ratchet-wrench. No. 1,318,811; Oct. 14; v. 267; p. 280.
- Skelton, Charles E., East Onondaga, N. Y. Loose-leaf binder. No. 1,316,198; Sept. 16; v. 266; p. 339.
- Skelton, L. S. (See Westbury, William, assignor.)
- Skelton, L. Sherman. (See Westbury, William, assignor.)
- Skelton, Levi S., Okmulgee, Okla. Electrically-heated bait for glass-drawing apparatus. No. 1,326,296; Dec. 30; v. 269; p. 737.
- Skemp, Robert, Scottsdale, assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Finishing galvanized sheets and plates. No. 1,297,265; Mar. 11; v. 260; p. 361.
- Skerl, Francesco, assignor to The National Cash Register Company, Dayton, Ohio. Ticket-issuing accounting-machine. No. 1,290,381; Jan. 7; v. 258; p. 88.
- Skerl, Francesco, assignor to The National Cash Register Company, Dayton, Ohio. Ticket-issuing accounting-machine. No. 1,302,600; May 6; v. 262; p. 22.
- Skerl, Francesco, assignor to The National Cash Register Company, Dayton, Ohio. Ticket-printing machine. No. 1,307,603; June 24; v. 263; p. 537.
- Skerl, Francesco, assignor to The National Cash Register Company, Dayton, Ohio. Ticket-machine. No. 1,313,958; Aug. 26; v. 265; p. 482.
- Skerl, Francesco, assignor to The National Cash Register Company, Dayton, Ohio. Ticket-printing machine. No. 1,325,175; Dec. 16; v. 269; p. 474.
- Skerms, J. T., et al. (See May, Jesse A., assignor.)
- Skerpan, Samuel, Ansonia, Conn. Candlestick. No. 1,315,872; Sept. 9; v. 266; p. 264.
- Skerrey, Clarence E., assignor to National Automatic Machine Company, Brattleboro, Vt. Stamp-affixing machine. No. 1,314,760; Sept. 2; v. 266; p. 53.
- Sketchley, Fred A., East Saugus, Mass. Train-control system. No. 1,314,439; Aug. 26; v. 265; p. 575.
- Skibbe, Otto A., and C. Dieball, Chicago, Ill. Caster-locking mechanism for stands, tables, and the like. No. 1,304,711; May 27; v. 262; p. 523.
- Skidmore, Benjamin, Jr., Chicago, Ill. Suction and pressure creating apparatus. No. 1,312,588; Aug. 12; v. 265; p. 169.
- Skidmore, Benjamin, Jr., Chicago, Ill. Hydroturbine vacuum-pump. No. 1,312,707; Aug. 12; v. 265; p. 192.
- Skidmore, Charles J., and P. F. Conerty, Brooklyn, N. Y. Separating oil. No. 1,302,094; Apr. 29; v. 261; p. 862.
- Skidmore, Emmeline M., administratrix. (See Skidmore, William D.)
- Skidmore, William D., deceased, New York, N. Y.; E. M. Skidmore, administratrix, assignor of one-half to F. de L. Robinson. Dumping-car. No. 1,293,954; Feb. 11; v. 259; p. 258.
- Skiermont, Stanley, Newark, N. J. Dustless ash-sifter. No. 1,316,809; Sept. 23; v. 266; p. 503.
- Skiff, Joseph B., Fort Dodge, Iowa. Wrench. No. 1,291,210; Jan. 14; v. 258; p. 310.
- Skiffin, Charles G., Pocahontas, Iowa. Film-rewinder. No. 1,318,020; Oct. 7; v. 267; p. 69.
- Skillins, John T., and G. A. Gabriel, assignors to Dana Cotton Harvester Company, Westbrook, Me. Centrifugal fan. No. 1,319,364; Oct. 21; v. 267; p. 411.
- Skinder, Joseph K., Kenosha, Wis. Horse-hitching device. No. 1,323,725; Dec. 2; v. 269; p. 94.
- Skinner, Allan D., Erie, Pa. Steam-engine. No. 1,312,143; Aug. 5; v. 265; p. 55.
- Skinner, Allan D., Erie, Pa. Method of and means for heating pistons and preventing excessive compression in steam-engines. No. 1,315,347; Sept. 9; v. 266; p. 170.
- Skinner, Bronson C., assignor to L. B. Skinner Mfg. Co., Dunedin, Fla. Fruit grading and assorting machine. No. 1,321,677; Nov. 11; v. 268; p. 313.
- Skinner, Bronson C., assignor to Skinner Machinery Co., Dunedin, Fla. Heater. No. 1,321,678; Nov. 11; v. 268; p. 313.
- Skinner, Charles E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Plastic composition and making the same. No. 1,299,798; Apr. 8; v. 261; p. 297.
- Skinner, Claude M., and L. J. Fowler, Omaha, Nebr. Grease-cup. No. 1,309,428; July 8; v. 264; p. 290.
- Skinner, Clyde L., and P. A. Tucker, Chicago, Ill. Arch-support. No. 1,297,922; Mar. 18; v. 260; p. 530.
- Skinner Engine Company. (See Stevens, Robert C., assignor.)
- Skinner, George H., Ealing, London, England. Internal-combustion engine. No. 1,321,132; Nov. 11; v. 268; p. 209.
- Skinner, Joseph G. (See Townsend and Skinner.)
- Skinner, Rufus A., St. Marys, Ohio. Regulating-damper. No. 1,298,587; Mar. 25; v. 260; p. 697.
- Skinner, Stephen G., Chicago, Ill. Compound air-pump. No. 1,322,967; Nov. 25; v. 268; p. 657.
- Skinner, William G., Yorktown, Va. Method of and apparatus for testing cement. No. 1,309,702; July 15; v. 264; p. 379.
- Sklovsky, Max, Moline, Ill., assignor to Deere & Company. Engine gang plow. No. 1,299,044; Apr. 1; v. 261; p. 98.
- Skociokh, John. (See Karabin and Skociokh.)
- Skoglund, Albert. (See Bore and Skoglund.)
- Skoglund, Jean V., assignor, by mesne assignments, to Trojan Powder Company, New York, N. Y. Treating nitrated bodies. No. 1,311,017; July 22; v. 264; p. 651.
- Skogsbergh, David W., Chicago, Ill. Puncture-proof auto-tire. No. 1,322,636; Nov. 25; v. 268; p. 595.
- Skolnik, Max., Minneapolis, Minn. Child's vehicle. No. 1,299,515; Apr. 8; v. 261; p. 232.
- Skolnick, Samuel, Brooklyn, assignor to Goldberg, Davidson Co., New York, N. Y. Process and apparatus for making buttons. No. 1,318,700; Oct. 14; v. 267; p. 260.
- Skonars, Gabriel A., Minneapolis, Minn. Toy gun. No. 1,294,548; Feb. 18; v. 259; p. 433.
- Skornia, Vincent, Tea, Mo. Wire-roll holder. No. 1,317,108; Sept. 23; v. 266; p. 559.
- Skowrya, Josef. (See Tomaszak, Antoni, assignor.)
- Skreberg, Hans, Big Bend township, Chippewa county, Minn. Game. No. 1,316,748; Sept. 23; v. 266; p. 492.
- Skretting, Martin, Opstead, Minn. Flag-holder. No. 1,296,866; Mar. 11; v. 260; p. 273.
- Skrzynecki, Wawrzyniec, Chicago, Ill. Blanking-press. No. 1,298,806; Apr. 1; v. 261; p. 44.
- Skulina, Raymond, Chicago, Ill. Inclinator. No. 1,297,504; Mar. 18; v. 260; p. 440.
- Slack, Samuel, Bisbee, Ariz. Jack-hammer. No. 1,317,600; Sept. 30; v. 266; p. 689.
- Slack, Willie F., Manchester, N. H. Artificial tooth. No. 1,312,141; Aug. 5; v. 265; p. 55.
- Slade, Arthur R., Waterloo, assignor to Iowa Steel Post Company, Fort Dodge, Iowa. Fencepost. No. 1,315,245; Sept. 9; v. 266; p. 151.
- Slade, Samuel, et al. (See Morehouse, William H., assignor.)
- Slagel, Harry E., Scott City, Kans. Wind-wheel or wind-driven prime mover. No. 1,300,499; Apr. 15; v. 261; p. 476.
- Slagenhauf, August, Brooklyn, N. Y. Tip for cordage. No. 1,326,143; Dec. 23; v. 269; p. 671.
- Slate, Thomas B., assignor to American Mechanical Improvement Company, (Incorporated,) Washington, D. C. Pneumatic electromagnetic gun. No. 1,301,327; Apr. 22; v. 261; p. 686.
- Slate, Thomas B., assignor to American Mechanical Improvement Company (Incorporated), Washington, D. C. Engine-cooling system. No. 1,303,605; May 13; v. 262; p. 239.
- Slater, Eli, Kinders, Greenfield, England. Apparatus for spraying and atomizing liquids. No. 1,292,898; Jan. 28; v. 258; p. 768.
- Slater, Fred M. (See Bayles and Slater.)
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-current meter. No. 1,311,922; Aug. 5; v. 265; p. 13.



*Alphabetical list of patentees—Continued.*

- Slater, Harvey, assignor to Charles F. Elmes Engineering Works, Chicago, Ill. Automatic change-valve for presses. No. 1,321,856; Nov. 18; v. 268; p. 397.
- Slattery, Denis C. (See Kelly and Slattery.)
- Slattery, John R., Vicksburg, Miss., and T. S. Miller, South Orange, N. J. Track-layer for cableway apparatus. No. 1,325,336; Dec. 16; v. 269; p. 505.
- Slattery, Mitchell J., Denver, Colo. Bloomerettes. No. 1,326,536; Dec. 30; v. 269; p. 783.
- Slaughter, Nugent H., Queens, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical condenser. No. 1,290,382; Jan. 7; v. 258; p. 88.
- Slawin, Hyman, Philadelphia, Pa. Hood. No. 1,309,783; July 15; v. 264; p. 393.
- Slawski, Wladyslaw, Glassboro, N. J. Wreck-indicating buoy. No. 1,294,549; Feb. 18; v. 259; p. 433.
- Sleeman, William G. R., New York, N. Y. Guard for vehicles. No. 1,325,705; Dec. 23; v. 269; p. 590.
- Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Machine for forming hooks on spiral springs. No. 1,311,187; July 29; v. 264; p. 715.
- Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Wire-coiling machine. No. 1,314,909; Sept. 2; v. 266; p. 80.
- Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Coiling-machine. No. 1,319,974; Oct. 28; v. 267; p. 550.
- Sleeper, Frederick L., Chicago, Ill. Ceramic-paint package. No. 1,326,217; Dec. 30; v. 269; p. 722.
- Sleeper & Hartley. (See Sleeper, Frank H., assignor.)
- Sleeper, Oliver S., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Distilling apparatus. No. 1,321,133; Nov. 11; v. 268; p. 209.
- Sleeper, Wilbur, Browerville, Minn. Car-door. No. 1,305,018; May 27; v. 262; p. 580.
- Sleight, William H., St. Louis, Mo. Telephone attachment. No. 1,316,653; Sept. 23; v. 266; p. 474.
- Slemmons, Wilbert I. (See Starbuck, Ernest, assignor.)
- Slepien, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring device. No. 1,299,252; Apr. 1; v. 261; p. 145.
- Slepien, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolyte for electrolytic condensers. No. 1,326,297; Dec. 30; v. 269; p. 737.
- Slepien, Joseph, Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,323,327; Dec. 2; v. 269; p. 20.
- Slevin, Albert W., deceased, St. Louis county, Mo.; E. C. Slevin, executor. Razor strop and hone. No. 1,292,406; Jan. 21; v. 258; p. 627.
- Slevin, Eugene C., executor. (See Slevin, Albert W.)
- Slezak, Wawrzyniec. (See Lawruszko, Wasyli, assignor.)
- Slick, Edwin E., Westmont borough, Pa. Metal car. No. 1,292,899; Jan. 28; v. 258; p. 768.
- Slick, Edwin E., Westmont borough, Pa. Six-wheel truck. No. 1,292,900; Jan. 28; v. 258; p. 768.
- Slick, Edwin E., Westmont borough, Pa. Water-cooled port. No. 1,322,837; Nov. 25; v. 268; p. 632.
- Slick, Edwin E., Johnstown, Pa. Rail-fastening. No. 1,321,485; Nov. 11; v. 268; p. 277.
- Slick, Edwin E. and F. H. Moyer, Westmont borough, Pa. Hot-blast valve. No. 1,323,328; Dec. 2; v. 269; p. 20.
- Slikka, Frank J., Chicago, Ill. Non-puncturable ring for pneumatic tires. No. 1,304,817; May 27; v. 262; p. 543.
- Slimm, Edward W., Bridgeport, Nebr. Mowing attachment for tractors. No. 1,303,606; May 13; v. 262; p. 239.
- Slinger, Robert P. (See Connor and Slinger.)
- Sliwinski, Stephen, Cressona, Pa. Combined fishing-rod and cane. No. 1,310,452; July 22; v. 264; p. 546.
- Sloan, Alonzo H., assignor of one-third to F. Rosenfield and one-third to R. C. Striker, Detroit, Mich. Expansion-joint. No. 1,306,236; June 10; v. 263; p. 221.
- Sloan, Clifton B., Kansas City, Mo. Protector-cover for toilet-closet seats. No. 1,293,955; Feb. 11; v. 259; p. 258.
- Sloan, Harry E., Philadelphia, Pa. Type-turtle or fudge-bed for rotary printing-presses. No. 1,316,337; Sept. 16; v. 266; p. 363.
- Sloan, Harry E., Philadelphia, Pa. Type-turtle or fudge-bed for rotary printing-presses. No. 1,316,338; Sept. 16; v. 266; p. 366.
- Sloan, James D., Glasgow, Scotland. Chimney and ventilating-shaft. No. 1,303,405; May 13; v. 262; p. 202.
- Sloan, Joseph A., Seattle, Wash. Beveling planing-machine. No. 1,293,956; Feb. 11; v. 259; p. 259.
- Sloan, Saul, Hamtramck, Mich. Fender. No. 1,324,936; Dec. 16; v. 269; p. 430.
- Sloan, William A. (See Lofgren, David, assignor.)
- Slocumb, John T., assignor to J. T. Slocumb Company, Providence, R. I. Thread-micrometer. No. 1,291,211; Jan. 14; v. 258; p. 310.
- Slocum, Avram and Slocum. (See Avram, Mois H., assignor.)
- Slocum Avram & Slocum. (See Cahusac, Clarence N., assignor.)
- Slocum, Avram & Slocum Laboratories. (See Boynton and Schachat, assignors.)
- Slocum, Avram & Slocum Laboratories. (See Schachat, Abraham, assignor.)
- Slocum, Edward M., Medan, Sumatra, Dutch East Indies, assignor to General Rubber Company. Adhesive rubber composition. No. 1,293,957; Feb. 11; v. 259; p. 259.
- Slocum, Edward M., Medan, Sumatra, Dutch East Indies, assignor to General Rubber Company. Treating latex and product thereof. No. 1,306,838; June 17; v. 263; p. 365.
- Slocum, Frank L., Pittsburgh, Pa. Treating material with gas or vapor. No. 1,315,532; Sept. 9; v. 266; p. 203.
- Slocum, Frank L., assignor to J. H. Reid, Pittsburgh, Pa. Fixation of nitrogen. No. 1,318,929; Oct. 14; v. 267; p. 303.
- Slocum, Frank L., assignor to J. H. Reid, Pittsburgh, Pa. Preparation of crude material for manufacture of carbide. No. 1,319,183; Oct. 21; v. 267; p. 378.
- Slocum, Frank L., assignor to J. H. Reid, Pittsburgh, Pa. Preparation of crude materials for manufacture of calcium carbide. No. 1,319,426; Oct. 21; v. 267; p. 424.
- Slocum, Frank L., and C. C. Stutz, assignors to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Apparatus for treating hydrocarbons. No. 1,304,211; May 20; v. 262; p. 387.
- Slocum, Frank L., and C. C. Stutz, assignors to Synthetic Hydrocarbon Company, Pittsburgh, Pa. Apparatus for treating hydrocarbons. No. 1,304,212; May 20; v. 262; p. 388.
- Sloop, Leonidas, Findlay, Ohio. Dirigible automobile lamp. No. 1,319,630; Oct. 21; v. 267; p. 463.
- Sloper, Thomas, Devizes, England. Wheel-rim for pneumatic tires. No. 1,294,313; Feb. 11; v. 259; p. 343.
- Sloper, Thomas, Devizes, England. Shock-absorber. No. 1,304,818; May 27; v. 262; p. 543.
- Sloper, Thomas, Devizes, England. Aeroplane-wheel bearing. No. 1,313,646; Aug. 19; v. 265; p. 389.
- Sloter, Selden S., assignor of one-half to C. C. Shinn, Fairmont, W. Va. Aeroplane. No. 1,302,235; Apr. 29; v. 261; p. 888.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,294,841; Feb. 18; v. 259; p. 502.
- Slough, Frank M., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,298,414; Mar. 25; v. 260; p. 659.
- Slough, Frank M., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,298,588; Mar. 25; v. 260; p. 697.
- Slough, Frank M., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,298,589; Mar. 25; v. 260; p. 698.
- Slough, Frank M., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,320,715; Nov. 4; v. 268; p. 66.
- Slough, Frank M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,320,716; Nov. 4; v. 268; p. 66.
- Slough, Frank M., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,324,749; Dec. 9; v. 269; p. 334.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone switching system. No. 1,324,750; Dec. 9; v. 269; p. 334.
- Sly, Le Roy W., and R. L. Oliver, Dorris, Calif. Insertible saw-tooth. No. 1,326,796; Dec. 30; v. 269; p. 831.
- Sly, Le Roy W., and R. L. Oliver, Dorris, Calif. Saw-tooth. No. 1,326,797; Dec. 30; v. 269; p. 832.
- Small, Chesley T., St. Louis, Mo. Feeding device. No. 1,297,505; Mar. 18; v. 260; p. 440.
- Small, Chesley T., St. Louis, Mo. Can-brushing machine. No. 1,312,589; Aug. 12; v. 265; p. 170.
- Small, Firman D., Attica, Ind. Level. No. 1,320,938; Nov. 4; v. 268; p. 109.
- Small, Frank S., New York, N. Y. Bridge-abutment construction. No. 1,306,725; June 17; v. 263; p. 344.
- Small, Fred K., Lisbon Falls, Me. Pneumatic tire. No. 1,313,749; Aug. 19; v. 265; p. 408.
- Small, Frederick E., Kansas City, Mo. Ore-concentrating machine. No. 1,309,307; July 8; v. 264; p. 268.
- Small, Frederick E., Kansas City, Mo. Ore-concentrating machine. No. 1,314,370; Aug. 26; v. 265; p. 561.
- Small, Frederick E., Kansas City, Mo. Ore-concentrating machine. No. 1,314,371; Aug. 26; v. 265; p. 561.
- Small, John W., and G. H. Langton, Portsmouth, Va. Nut-lock. No. 1,294,550; Feb. 18; v. 259; p. 434.
- Small, Lewis F., Braintree, assignor to C. C. Blake, Incorporated, Boston, Mass. Upper for shoes. No. 1,325,588; Dec. 23; v. 269; p. 568.
- Small, Thomas W., Cleveland, Ohio. Display apparatus. No. 1,308,200; July 1; v. 264; p. 36.
- Smallbone, Harry E., assignor to Domestic Sewing Machine Co., Inc., Buffalo, N. Y. Sewing-machine. No. 1,325,382; Dec. 16; v. 269; p. 513.



- Smalley, George O., assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Self-lubricating bearing. No. 1,299,799; Apr. 8; v. 261; p. 298.
- Smalley, John C., Chippewa Falls, Wis. Combined pen stand and wiper. No. 1,291,212; Jan. 14; v. 258; p. 310.
- Smallwood, Alfred, London, England. Furnace. No. 1,290,383; Jan. 7; v. 258; p. 88.
- Smallwood, Alfred, London, England. Furnace for heat treatment. No. 1,290,384; Jan. 7; v. 258; p. 88.
- Smallwood, Alfred, London, England. Furnace. No. 1,290,385; Jan. 7; v. 258; p. 89.
- Smallwood, Alfred, Highgate, London, England. Furnace for heating and treating articles. No. 1,312,927; Aug. 12; v. 265; p. 235.
- Smallwood, Alfred, Highgate, London, England. Furnace for treating articles. No. 1,312,928; Aug. 12; v. 265; p. 235.
- Smallwood, Alfred, Highgate, London, England. Apparatus for cooling liquids. No. 1,312,929; Aug. 12; v. 265; p. 236.
- Smallwood, Alfred, Highgate, London, England. Apparatus for cooling liquids. No. 1,312,930; Aug. 12; v. 265; p. 236.
- Smarch, Frank, Anaconda, Mont. Protector for trommel-spokes. No. 1,319,309; Oct. 21; v. 267; p. 401.
- Smart, Edward N., Madison, Nebr. Surgical appliance. No. 1,313,344; Aug. 19; v. 265; p. 332.
- Smart, Frank C., Hartford, Conn. Lathe-chuck. No. 1,325,915; Dec. 23; v. 269; p. 629.
- Smart, Henry C., Brooklyn, assignor to Standard Oil Company of New York, New York, N. Y. Combined coal and gas burning furnace. No. 1,296,224; Mar. 4; v. 260; p. 94.
- Smart, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Perculator. No. 1,295,222; Feb. 25; v. 259; p. 611.
- Smart, Valentine I., Montreal, Quebec, Canada. Time-lock for interlocking machines. No. 1,326,298; Dec. 30; v. 269; p. 737.
- Smeby, Herbert M., Chicago, Ill. Telephone coin-box and holder. No. 1,321,156; Nov. 11; v. 268; p. 214.
- Smedley, Frederick H., Columbia, Pa. Overalls. No. 1,304,613; May 27; v. 262; p. 504.
- Smedley, James C. (See Quackenbush and Smedley.)
- Smedshammer, Henry, Litchville, N. D. Motor-propelled sled. No. 1,293,958; Feb. 11; v. 259; p. 259.
- Smelo, William M., Philadelphia, Pa. Wire-working machine. No. 1,294,314; Feb. 11; v. 259; p. 343.
- Smerling, Herman. (See Kramer and Smerling.)
- Smet, Edward, et al. (See Altpeter, Walter, assignor.)
- Smethport Glass Co. (See Donchamp, Henry, assignor.)
- Smethurst, Herbert, Hollinwood, England. Humidifying or spraying apparatus. No. 1,294,551; Feb. 18; v. 259; p. 434.
- Smidley, John H., Baltimore, Md. Fire-alarm. No. 1,309,916; July 15; v. 264; p. 418.
- Smigelski, Stanley. (See Obolowicz, Stanislaw, assignor.)
- Smigelski, Stanley, Detroit, Mich. Trundle toy. No. 1,323,921; Dec. 2; v. 269; p. 131.
- Smiley, Albert A., Albia, Iowa. Building-block. No. 1,306,781; June 17; v. 263; p. 355.
- Smiley, Harry D., Albia, Iowa. Powder-charging device. No. 1,306,316; June 10; v. 263; p. 236.
- Smiley, John F., Dallas, Tex. Elevated carrier. No. 1,311,018; July 22; v. 264; p. 651.
- Smiley, Orvall, Indianapolis, Ind. Pneumatic cord tire. No. 1,294,350; Feb. 11; v. 259; p. 351.
- Smiley, William H., Kansas City, Mo. Puzzle. No. 1,309,659; July 15; v. 264; p. 371.
- Smirle, Robert J., San Francisco, Calif. Wire-uncoiling apparatus. No. 1,312,058; Aug. 5; v. 265; p. 38.
- Smirle, Robert J., San Francisco, Calif. Wire-binding machine. No. 1,325,916; Dec. 23; v. 269; p. 629.
- Smit, George, Parkersburg, Iowa. Seed-tester. No. 1,303,827; May 13; v. 262; p. 280.
- Smit, Harry, New York, N. Y. Surgical instrument. No. 1,293,565; Feb. 4; v. 259; p. 137.
- Smit, Harry, New York, N. Y. Scissors. No. 1,326,299; Dec. 30; v. 269; p. 737.
- Smit, Isaac J., Chicago, Ill. Light-transmitting surgical device. No. 1,326,300; Dec. 30; v. 269; p. 737.
- Smith, A. A., et al. (See Haynes, Jackson C., assignor.)
- Smith, Alexander N., assignor to W. F. Whitman, Chicago, Ill. Fly-sheet delivery. No. 1,324,437; Dec. 9; v. 269; p. 274.
- Smith, Alfred B., Topeka, Kans. Rim-tool. No. 1,312,590; Aug. 12; v. 265; p. 170.
- Smith, Alfred W., Victoria, England. Stamp-affixing machine. No. 1,293,959; Feb. 11; v. 259; p. 259.
- Smith, Allen W., New York, N. Y. Carrying and drag bag. No. 1,308,263; July 1; v. 264; p. 47.
- Smith, Amos H., New York, N. Y., assignor to American Bank Note Company. Making multicolor prints. No. 1,294,717; Feb. 18; v. 259; p. 472.
- Smith, Amos H., New York, N. Y., assignor to American Bank Note Company. Making multicolor prints. No. 1,294,718; Feb. 18; v. 259; p. 472.
- Smith, Amos H., New York, N. Y., assignor to American Bank Note Company. Making multicolor prints. No. 1,294,719; Feb. 18; v. 259; p. 472.
- Smith, Amos H., New York, N. Y., assignor to American Bank Note Company. Making multicolor prints. No. 1,294,720; Feb. 18; v. 259; p. 472.
- Smith, Andrew, San Mateo, Cal. Joint for metal casings. No. 1,296,016; Mar. 4; v. 260; p. 45.
- Smith, Andrew, Chicago, Ill. Propelling device or shooter for toys. No. 1,308,201; July 1; v. 264; p. 36.
- Smith, Andrew, Pescadero, Calif. Plate-tongs. No. 1,312,142; Aug. 5; v. 265; p. 55.
- Smith, Andrew, assignor to Smith Metal Perforating Company, San Mateo, Calif. Electric-arc welding. No. 1,298,590; Mar. 25; v. 260; p. 698.
- Smith, Andrew, assignor to Smith Metal Perforating Company, San Mateo, Calif. Rotary-drill pipe and connecting means therefor. No. 1,320,503; Nov. 4; v. 268; p. 27.
- Smith, Arthur B., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,308,749; July 1; v. 264; p. 136.
- Smith, Arthur B., Evanston, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,314,711; Sept. 2; v. 266; p. 45.
- Smith, Arthur B., Evanston, Ill., assignor to Automatic Electric Company. Automatic telephone system. No. 1,315,441; Sept. 9; v. 266; p. 187.
- Smith, Arthur D., Arkansas City, Kans. Shaft-bearing for stills. No. 1,295,223; Feb. 25; v. 259; p. 612.
- Smith, Arthur D., Vinita, Okla., assignor, by mesne assignments, to J. T. Milliken, St. Louis, Mo. Manufacturing gasoline. No. 1,324,075; Dec. 9; v. 269; p. 205.
- Smith, Arthur E., New York, N. Y. Golf-bag holder. No. 1,313,959; Aug. 26; v. 265; p. 482.
- Smith, Arthur J., New York, N. Y. Hairpin. No. 1,313,750; Aug. 19; v. 265; p. 408.
- Smith, Arthur L., Melrose, Mass. Column-cap. No. 1,324,076; Dec. 9; v. 269; p. 205.
- Smith, Arthur T., Kalamazoo, Mich. Mail-box. No. 1,295,624; Feb. 25; v. 259; p. 705.
- Smith, Asbury G. (See Alderman and Smith.)
- Smith, Barnes & Strober Company. (See Smith, Charles H., assignor.)
- Smith, Benjamin H. (See Lincoln and Smith.)
- Smith, Benjamin A., Seattle, Wash. Tire-armor. No. 1,320,283; Oct. 28; v. 267; p. 608.
- Smith, Brantley, New York, N. Y., assignor of one-half to W. M. Houghton, Plainfield, N. J. Distortion device for attachment to cameras and similar apparatus. No. 1,292,901; Jan. 28; v. 258; p. 768.
- Smith Cannery Machines Company. (See Waugh, Edward H., assignor.)
- Smith, Carl C., Oakland, Calif. Automobile-loading device. No. 1,297,923; Mar. 18; v. 260; p. 530.
- Smith, Carl C., Oakland, Calif. Loading device for automobiles. No. 1,310,036; July 15; v. 264; p. 439.
- Smith, Carolyn S., Brooklyn, N. Y. Filtering apparatus. No. 1,293,649; Feb. 4; v. 259; p. 157.
- Smith, Carolyn S., Brooklyn, N. Y. Filtering apparatus. No. 1,293,650; Feb. 4; v. 259; p. 157.
- Smith, Carolyn S., Brooklyn, N. Y. Filtering apparatus. No. 1,293,651; Feb. 4; v. 259; p. 157.
- Smith, Charles, Houghton, assignor of one-half to M. W. Lytle, Hancock, Mich. Tool-handle. No. 1,320,181; Oct. 28; v. 267; p. 588.
- Smith, Charles C., Des Moines, Iowa. Adjustable door-jamb. No. 1,307,216; June 17; v. 263; p. 433.
- Smith, Charles D. (See Bright and Smith.)
- Smith, Charles E. E., Auckland, New Zealand. Extensible support. No. 1,293,222; Feb. 4; v. 259; p. 57.
- Smith, Charles F., Dexter, N. Y., assignor, by mesne assignments, to Autosales Corporation. Automatic packing-machine. No. 1,293,625; Feb. 4; v. 259; p. 151.
- Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Scabbard. No. 1,319,494; Oct. 21; v. 267; p. 437.
- Smith, Charles G., Washington, D. C., assignor to C. Fischer, Brooklyn, N. Y. Magnetic speedometer. No. 1,312,081; Aug. 5; v. 265; p. 43.
- Smith, Charles G., Washington, D. C., assignor to C. Fischer, Brooklyn, N. Y. Magnetic speedometer. No. 1,312,082; Aug. 5; v. 265; p. 43.
- Smith, Charles G., Washington, D. C., assignor to C. Fischer, Brooklyn, N. Y. Magnetic speedometer. No. 1,312,083; Aug. 5; v. 265; p. 43.
- Smith, Charles H., assignor to Smith, Barnes & Strober Company, Chicago, Ill. Tone-regulator for phonographs. No. 1,306,196; June 10; v. 263; p. 212.
- Smith, Charles R., Bloomington, Ill. Rapid-fire gun. No. 1,314,761; Sept. 2; v. 266; p. 54.
- Smith, Charles S., Chicago, Ill. Screen. No. 1,310,305; July 15; v. 264; p. 488.
- Smith, Charles S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Tube-forming apparatus. No. 1,313,025; Aug. 12; v. 265; p. 255.
- Smith, Charles W., Graydon Springs, Mo. Planter attachment. No. 1,321,339; Nov. 11; v. 268; p. 249.
- Smith, Charles W., Woodlawn, Pa. Diamond-shaped box. No. 1,322,637; Nov. 25; v. 268; p. 596.
- Smith, Charles W., assignor to Keystone Type Foundry Company, Philadelphia, Pa. Inking mechanism for printing-presses. No. 1,326,537; Dec. 30; v. 269; p. 783.



## Alphabetical list of patentees—Continued.

- Smith, Charles W., assignor to Keystone Type Foundry Company, Philadelphia, Pa. Printing-press. No. 1,326,798; Dec. 30; v. 269; p. 832.
- Smith, Charlie B., Kokomo, Ind. Stove. No. 1,314,440; Aug. 26; v. 265; p. 575.
- Smith, Charlie N. (See Keating, Paul W., assignor.)
- Smith, Christian N., Elgin, Ill. Machine for making metallic printing-plates. No. 1,297,266; Mar. 11; v. 260; p. 361.
- Smith, Christopher C., Eugene, Oreg. Device for winding watches. No. 1,294,552; Feb. 18; v. 259; p. 434.
- Smith, Clarence E., Worcester, Mass. Carrier or cover for canteens or water-bottles, &c. No. 1,311,923; Aug. 5; v. 265; p. 14.
- Smith, Claude A. *et al.* (See Bauer, Otto V., assignor.)
- Smith, Claude T., and G. W. Forsythe, Denver, Colo. Cushion-wheel. No. 1,295,378; Feb. 25; v. 259; p. 647.
- Smith, Claude T., and G. W. Forsythe, Denver, Colo. Cushion-wheel. No. 1,295,379; Feb. 25; v. 259; p. 647.
- Smith, Clayton P., Iowa City, Iowa. Intake-manifold. No. 1,305,174; May 27; v. 262; p. 609.
- Smith, Daniel and J. Glasgow, Scotland. Speed regulating or reducing gear. No. 1,295,807; Feb. 25; v. 259; p. 747.
- Smith, Daniel D., Valdosta, Ga. Insect-destroyer. No. 1,302,095; Apr. 29; v. 261; p. 862.
- Smith, Datus C., Kinderhook, N. Y. Revolving door. No. 1,303,406; May 13; v. 262; p. 202.
- Smith, David, Douglas, Wyo. Airship attachment. No. 1,303,976; May 20; v. 262; p. 345.
- Smith, David, Wellesley, Mass. Fire-box for boilers. No. 1,319,184; Oct. 21; v. 267; p. 378.
- Smith, David B., Cape Girardeau, Mo. Holder for portable fire-extinguishers. No. 1,297,024; Mar. 11; v. 260; p. 309.
- Smith, David F. (See Urbanski and Smith.)
- Smith, David J. (See Towal and Smith.)
- Smith, David J., London, England. Inflatable marine life-saving appliance. No. 1,301,515; Apr. 22; v. 261; p. 721.
- Smith, David J., London, England. Scrubber, cleanser, and cooler for gas. No. 1,307,321; June 17; v. 263; p. 453.
- Smith & Davis Manufacturing Company. (See Jones, Benjamin H., assignor.)
- Smith, De Wane B., Utica, N. Y. Strainer and valve-box for pumps or the like. No. 1,297,603; Mar. 18; v. 260; p. 461.
- Smith, Earl G. (See Combs and Bullington, assignors.)
- Smith, Edgar A. (See Smith, Oscar R. and E. A.)
- Smith, Edgar W., Shell, Wyo. Ditch-forming machine. No. 1,326,538; Dec. 30; v. 269; p. 783.
- Smith, Edith K. (See Smith, Hampton, K., assignor.)
- Smith, Edith K., *et al.* (See Smith, Hampton R., assignor.)
- Smith, Edmund S. (See Tone and Smith.)
- Smith, Edward A., New York, N. Y. Snow-melting machine. No. 1,300,035; Apr. 8; v. 261; p. 349.
- Smith, Edward C., assignor to Meadville Wrench Company, Meadville, Pa. Machine for forming wrench-heads. No. 1,313,345; Aug. 19; v. 265; p. 332.
- Smith, Edward G., New York, N. Y. Animated sign. No. 1,291,213; Jan. 14; v. 258; p. 311.
- Smith, Edward M. and M. E., Milford, Conn. Base-ball game. No. 1,318,615; Oct. 14; v. 267; p. 243.
- Smith, Edward S., Selma, Calif. Spring-tire. No. 1,302,477; Apr. 29; v. 261; p. 935.
- Smith, Edward S., assignor of one-third to J. A. Christie, Akron, Ohio. Garment. No. 1,295,625; Feb. 25; v. 259; p. 705.
- Smith, Edwin W. (See Winter and Smith.)
- Smith & Egge Manufacturing Company, The. (See Berglund, John L., assignor.)
- Smith & Egge Mfg. Co., The. (See Skelly, Bernard H., assignor.)
- Smith & Egge Mfg. Co., The. (See Smith, Friend W., Jr., assignor.)
- Smith, Elheron D., Brooklyn, assignor to American Machine & Foundry Company, New York, N. Y. Cigarette-tipping machine. No. 1,305,313; June 3; v. 263; p. 16.
- Smith, Elda G. (See Bissell and Smith.)
- Smith, Elda G., assignor to Crouse-Hinds Company, Syracuse, N. Y. Conduit outlet-box. No. 1,314,372; Aug. 26; v. 265; p. 561.
- Smith, Elias A. C., New York, N. Y. Electrode. No. 1,311,096; July 22; v. 264; p. 665.
- Smith, Ella L., Roanoke, Ala. Attachable ear for dolls. No. 1,292,113; Jan. 21; v. 258; p. 559.
- Smith, Ella L., Roanoke, Ala. Doll. No. 1,308,816; July 8; v. 264; p. 176.
- Smith, Ella L., Roanoke, Ala. Supporter-waist. No. 1,315,348; Sept. 9; v. 266; p. 170.
- Smith, Ella L., Roanoke, Ala. Band for infants. No. 1,321,134; Nov. 11; v. 268; p. 209.
- Smith, Ella L., Roanoke, Ala. Doll construction. No. 1,321,135; Nov. 11; v. 268; p. 210.
- Smith, Elmer H., Minneapolis, Minn. Cutting torch-tip. No. 1,318,616; Oct. 14; v. 267; p. 244.
- Smith, Elmer H., Minneapolis, Minn. Periscopic eyeprotector. No. 1,318,812; Oct. 14; v. 267; p. 280.
- Smith, Elmer H., Minneapolis, Minn. Acetylene-torch grip. No. 1,318,813; Oct. 14; v. 267; p. 280.
- Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Wrapping and banding machine. No. 1,298,807; Apr. 1; v. 261; p. 45.
- Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,306,358; June 10; v. 263; p. 245.
- Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Mechanism for applying stamps, labels, and the like. No. 1,306,359; June 10; v. 263; p. 245.
- Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Strip feeding and cutting mechanism. No. 1,313,862; Aug. 19; v. 265; p. 429.
- Smith, Elmer L., and A. E. Phelon, assignors to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,313,863; Aug. 19; v. 265; p. 430.
- Smith, Elmer L., and A. E. Phelon, assignors to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,313,864; Aug. 19; v. 265; p. 430.
- Smith, Emanuel, Murray, Idaho. Pulverizer. No. 1,323,417; Dec. 2; v. 269; p. 37.
- Smith, Emerson H., Parsons, Kans. Train-order holder. No. 1,309,080; July 8; v. 264; p. 226.
- Smith, Emma A., Standish, Mich. Oil-burning stove. No. 1,310,254; July 15; v. 264; p. 479.
- Smith Engineering Works. (See Sanborn, Eugene L., assignor.)
- Smith, Ernest C., assignor to Walter A. Wood Mowing & Reaping Machine Co., Hoosick Falls, N. Y. Cultivator. No. 1,310,583; July 22; v. 264; p. 570.
- Smith, Ernest C., Chicago, Ill., assignor to Walter A. Wood Mowing & Reaping Machine Co., Hoosick Falls, N. Y. Hay-loader. No. 1,319,930; Oct. 28; v. 267; p. 542.
- Smith, Ernest J. (See Goss and Smith.)
- Smith, Ernest J., assignor to The Goss Printing Press Company, Chicago, Ill. Planographic machine. No. 1,306,726; June 17; v. 263; p. 344.
- Smith, Ernest J., assignor to The Goss Printing Press Company, Chicago, Ill. Intaglio-printing press. No. 1,314,543; Sept. 2; v. 266; p. 13.
- Smith, Ernest J., London, England, assignor to The Goss Printing Press Company, Chicago, Ill. Intaglio-printing press. No. 1,319,727; Oct. 28; v. 267; p. 503.
- Smith, Ernest J., assignor to R. Hoe and Co., New York, N. Y. Web-feeding mechanism. No. 1,324,362; Dec. 9; v. 269; p. 259.
- Smith, Ernest L., Salt Lake City, Utah. Envelop or file. No. 1,309,223; July 8; v. 264; p. 252.
- Smith, Eugene S., Pittsburg, Kans. Draft adjustment for plows. No. 1,307,795; June 24; v. 263; p. 572.
- Smith, Evander A., Houston, Tex. Carpenter's implement. No. 1,312,006; Aug. 5; v. 265; p. 28.
- Smith, Floyd, San Diego, Calif. Airplane landing and launching equipment. No. 1,306,860; June 17; v. 263; p. 369.
- Smith, Francis W. (See Rulman, Smith, and Jones.)
- Smith, Frank, assignor of one-half to A. Baucle, Detroit, Mich. Vending-machine. No. 1,324,415; Dec. 9; v. 269; p. 270.
- Smith, Frank A. (See Seifarth, Frederick G., assignor.)
- Smith, Frank A., assignor to American Badge Company, Chicago, Ill. Locking mechanism for pocket savings-banks. No. 1,297,025; Mar. 11; v. 260; p. 309.
- Smith, Frank B., Maywood, Ill. Clothes-wringer attachment. No. 1,307,217; June 17; v. 263; p. 433.
- Smith, Frank F., assignor to Frank F. Smith Hardware Company, Newark, N. J. Door-lock mechanism. No. 1,324,181; Dec. 9; v. 269; p. 225.
- Smith, Frank G., Elizabeth, N. J. Wheel. No. 1,317,230; Sept. 30; v. 266; p. 617.
- Smith, Frank W., Kalamazoo, Mich. Antislip device. No. 1,315,745; Sept. 9; v. 266; p. 240.
- Smith, Frank W., Westfield, N. J. Timing device. No. 1,301,613; Apr. 22; v. 261; p. 738.
- Smith, Frank W., Westfield, N. J., L. Larsen, Brooklyn, N. Y., and B. Pearson, Emerson, N. J., assignors to Sundb Electric Company, New York, N. Y. Electric controller. No. 1,292,381; Jan. 21; v. 258; p. 623.
- Smith, Franklin E., *et al.* (See Miller, Joseph W., assignor.)
- Smith, Franklin G., Circleville, N. Y. Indicator. No. 1,301,516; Apr. 22; v. 261; p. 721.
- Smith, Franklin P. (See Itchner, Charles, assignor.)
- Smith, Frederick A., Pittsburg, Pa., assignor, by mesne assignments, to Hi-Glo Sign Co. Electric sign. No. 1,326,218; Dec. 30; v. 269; p. 722.
- Smith, Frederick C., Marion, Ohio. Foot-throttle mechanism. No. 1,295,380; Feb. 25; v. 259; p. 647.
- Smith, Frederick E., and F. W. Cunniff, Berby, assignors to Robert N. Bassett Company, Incorporated, Shelton, Conn. Mechanism for making stay-tips. (Re-issue.) No. 14,691; July 15; v. 264; p. 508.
- Smith, Frederick G., Sarnia, Ontario, Canada. Signaling instrument. No. 1,324,525; Dec. 9; v. 269; p. 291.
- Smith, Frederick G., Purley, assignor of one-half to Wellman Seaver and Head Limited, London, England. Valve for steel-making furnaces or mixers and the like. No. 1,320,284; Oct. 28; v. 267; p. 608.



- Smith, Frederick I., Sidman, Pa. Seesaw. No. 1,317,231; Sept. 30; v. 266; p. 617.
- Smith, Friend W., Jr., assignor to The Smith & Egge Mfg. Co., Bridgeport, Conn. Wire chain. No. 1,305,673; June 3; v. 263; p. 84.
- Smith, Furmon S., Grants Pass, Oreg. Wrench. No. 1,291,214; Jan. 14; v. 258; p. 311.
- Smith, Gaillard, Glen Ridge, N. J., assignor to World Harvester Corporation, New York, N. Y. Walking-cultivator. No. 1,305,674; June 3; v. 263; p. 84.
- Smith, Gary B., Chicago, Ill. Bed-spring fabric. No. 1,300,664; Apr. 15; v. 261; p. 509.
- Smith Gas Engineering Company, The. (See Smith, Harry F., assignor.)
- Smith, George. (See Birrell and Smith.)
- Smith, George, Westalton, Mo. Cleat for tractor-wheels. No. 1,315,873; Sept. 9; v. 266; p. 264.
- Smith, George, assignor of one-half to B. Kittel, London, England. Money-box. No. 1,313,922; Aug. 26; v. 265; p. 475.
- Smith, George A., Baltimore, Md. Photographic exposure-meter. No. 1,310,255; July 15; v. 264; p. 479.
- Smith, George A., Baltimore, Md. Exposure-meter. No. 1,310,256; July 15; v. 264; p. 479.
- Smith, George A., South Hill, Va. Box-stuff-trimming mechanism. No. 1,314,834; Sept. 2; v. 266; p. 67.
- Smith, George A., assignor to R. F. Morse Company, Providence, R. I. Automatic stoker. No. 1,325,589; Dec. 23; v. 269; p. 568.
- Smith, George C., Gottenborg, Sweden. Apparatus for hoisting and lowering boats. No. 1,310,717; July 22; v. 264; p. 595.
- Smith, George C., Erie, Pa. Plowing device. No. 1,324,937; Dec. 16; v. 269; p. 430.
- Smith, George E., Meriden, Conn. Gas-heater. No. 1,319,252; Oct. 21; v. 267; p. 391.
- Smith, George F. (See Crews and Smith.)
- Smith, George H., Columbus, Ohio. Beet-topper. No. 1,301,323; Apr. 22; v. 261; p. 686.
- Smith, George H., Columbus, Ohio. Beet-topping machine. No. 1,301,329; Apr. 22; v. 261; p. 686.
- Smith, George H., Columbus, Ohio. Beet-topping machine. No. 1,301,330; Apr. 22; v. 261; p. 686.
- Smith, George J., Grand Rapids, Mich. Potato-planter. No. 1,312,214; Aug. 5; v. 265; p. 68.
- Smith, George N., Akron, Ohio. Baking-iron. No. 1,292,658; Jan. 28; v. 258; p. 711.
- Smith, George J., assignor of one-half to J. A. Mutton and W. B. Kitchen, Grand Rapids, Mich. Vehicle-trailer. No. 1,321,946; Nov. 18; v. 268; p. 414.
- Smith, George F., East St. Louis, Ill. Lock for automobile clutch-levers. No. 1,319,495; Oct. 21; v. 267; p. 437.
- Smith, George P., Boley, assignor of one-third to J. C. Jackson, Langston, Okla. Orchestron. No. 1,305,942; June 3; v. 263; p. 135.
- Smith, George W., Dallas, Tex. Ratchet-release for front-wheel drives. No. 1,294,721; Feb. 18; v. 259; p. 473.
- Smith, George W., Dallas, Tex. Tire traction-lug. No. 1,315,688; Sept. 9; v. 266; p. 230.
- Smith, George W., Dallas, Tex. Flexible brace. No. 1,317,330; Sept. 30; v. 266; p. 636.
- Smith, Glenn B. (See Harris and Smith.)
- Smith, Glenn R., assignor of one-fourth to A. M. Johnson and one-fourth to I. S. Johnson, Lompoc, Calif. Combination electric switch. No. 1,321,400; Nov. 11; v. 268; p. 261.
- Smith, Grant W. (See Swart and Smith.)
- Smith, Hampton K., Union, S. C., assignor to E. K. Smith. Automobile-signal. No. 1,313,346; Aug. 19; v. 265; p. 332.
- Smith, Hampton K., assignor of forty per cent. to H. C. Smith and sixty per cent. to E. K. Smith, Union, S. C. Automobile-signal. No. 1,315,168; Sept. 2; v. 266; p. 127.
- Smith, Harald, Copenhagen, Denmark. Vibration-transferring means. No. 1,313,751; Aug. 19; v. 265; p. 408.
- Smith, Harold C., et al. (See Smith, Hampton K., assignor.)
- Smith, Harold E., Cleveland Heights, Ohio. Flexible heat-resistant rubber article. No. 1,322,734; Nov. 25; v. 268; p. 613.
- Smith, Harold H., Holkol, Whang-Hai, Chosen, Korea. Dispensing apparatus. No. 1,314,987; Sept. 2; v. 266; p. 93.
- Smith, Harriet E., administratrix. (See Smith, Morris F.)
- Smith, Harry A., Jr., Buffalo, N. Y. Rotary internal-combustion engine. No. 1,300,036; Apr. 8; v. 261; p. 349.
- Smith, Harry B., Brooklyn, N. Y. Covered box. No. 1,302,236; Apr. 29; v. 261; p. 889.
- Smith, Harry C., Santa Barbara, Cal. Tie-press. No. 1,296,017; Mar. 4; v. 260; p. 45.
- Smith, Harry F., Lexington, Ohio, assignor to The Smith Gas Engineering Company. Rotary pump. No. 1,310,584; July 22; v. 264; p. 571.
- Smith, Harry H., Brooklyn, N. Y. Flat-iron stand. No. 1,302,866; May 6; v. 262; p. 74.
- Smith, Harry J., New York, N. Y. Apparatus for making ice. No. 1,299,800; Apr. 8; v. 261; p. 299.
- Smith, Harry L., San Francisco, Cal. Carton. No. 1,290,386; Jan. 7; v. 258; p. 89.
- Smith, Henry, College Point, N. Y. Ink-well. No. 1,308,817; July 8; v. 264; p. 176.
- Smith, Henry, Philadelphia, Pa. Fastener for wearing-apparel. No. 1,311,924; Aug. 5; v. 265; p. 14.
- Smith, Henry, assignor to Standard Check Book Company, Incorporated, Richmond, Va. Check-book. No. 1,307,708; June 24; v. 263; p. 556.
- Smith, Henry A. W., Chatham, Va. Rerailer-clamp. No. 1,325,808; Dec. 23; v. 269; p. 609.
- Smith, Henry A. W., Chatham, Va. Rerailer. No. 1,325,809; Dec. 23; v. 269; p. 609.
- Smith, Henry A. W., assignor of one-half to E. S. Reid, Chatham, Va. Rerailer. No. 1,305,625; June 3; v. 263; p. 76.
- Smith, Henry A. W., assignor of one-half to E. S. Reid, Chatham, Va. Rerailer. No. 1,305,626; June 3; v. 263; p. 76.
- Smith, Henry C., Philadelphia, Pa. Contents-lifter for display-cans. No. 1,310,219; July 15; v. 264; p. 473.
- Smith, Henry C., St. Marys, Ohio. Shear. No. 1,313,960; Aug. 26; v. 265; p. 482.
- Smith, Henry L., Paterson, N. J. Radius-bar. No. 1,296,867; Mar. 11; v. 260; p. 273.
- Smith, Henry S., and A. F. Westlund, assignors to The Prest-O-Lite Company, Inc., Indianapolis, Ind. Flash-check for gas-tanks. No. 1,303,123; May 6; v. 262; p. 123.
- Smith, Herbert E., Spokane, Wash. Mail-exchanging device. No. 1,312,059; Aug. 5; v. 265; p. 38.
- Smith, Herbert L., Westerly, R. I., assignor to Universal Electric Welding Company, New York, N. Y. Metal sash or frame joint. No. 1,301,981; Apr. 29; v. 261; p. 841.
- Smith, Herbert M., and W. W. Stanley, Great Barrington, Mass., assignors, by mesne assignments, to Stanley Insulating Company. Cartridge-case. No. 1,319,185; Oct. 21; v. 267; p. 378.
- Smith, Herman C., Waterloo, Iowa. Lifting-tongs for jars. No. 1,313,752; Aug. 19; v. 265; p. 409.
- Smith, Herschel C. (See Belt and Smith.)
- Smith, Hewlett R. (See Seaboldt and Wackwits, assignors.)
- Smith, Hiram A., Kalamazoo, Mich. Mold. No. 1,325,050; Dec. 16; v. 269; p. 450.
- Smith, Homer P., assignor of one-third to F. E. Saecker and one-third to H. G. Saecker, Appleton, Wis. Machine for making hair-pins. No. 1,309,660; July 15; v. 264; p. 371.
- Smith, Homer P., assignor of one-third to F. E. Saecker and one-third to H. G. Saecker, Appleton, Wis. Cutting-off attachment for hair-pin machines. No. 1,309,661; July 15; v. 264; p. 371.
- Smith, Homer P., assignor of one-third to F. E. Saecker and one-third to H. G. Saecker, Appleton, Wis. Wire-feeding mechanism for hair-pin machines. No. 1,309,662; July 15; v. 264; p. 372.
- Smith, Homer P., assignor of one-third to F. E. Saecker and one-third to H. G. Saecker, Appleton, Wis. Wire-bending mechanism for hair-pin machines. No. 1,309,663; July 15; v. 264; p. 372.
- Smith, Homer P., assignor of one-third to F. E. Saecker and one-third to H. G. Saecker, Appleton, Wis. Wire-cutting device. No. 1,309,664; July 15; v. 264; p. 372.
- Smith, Horace H., Tacoma, Wash. Separator. No. 1,308,920; July 8; v. 264; p. 195.
- Smith, Horace M., assignor to Liquid Carbonic Company, Chicago, Ill. Drink-mixer. No. 1,318,021; Oct. 7; v. 267; p. 69.
- Smith, Irving B., Ambler, and C. R. Cary, assignors to Leeds & Northrup Company, Philadelphia, Pa. Electrical measuring apparatus. No. 1,314,610; Sept. 2; v. 266; p. 25.
- Smith, Irving B., Ambler, assignor to Leeds & Northrup Company, Philadelphia, Pa. Optical pyrometry. No. 1,319,805; Oct. 28; v. 267; p. 518.
- Smith, Irving T., Brooklyn, N. Y. Container. No. 1,316,515; Sept. 16; v. 266; p. 400.
- Smith, Irving W., Niagara, Wis. Lace and ribbon winder. No. 1,323,652; Dec. 2; v. 269; p. 80.
- Smith, J. Amory, Ellsworth, Kans. Combined necktie and collar fastener. No. 1,299,801; Apr. 8; v. 261; p. 299.
- Smith, Jacob J., Chicago, Ill. Oil-gas generator and burner. No. 1,326,469; Dec. 30; v. 269; p. 769.
- Smith, James. (See Smith, Daniel and J.)
- Smith, James, Pittsburg, Calif. Sandpaper-cutting machine. No. 1,301,754; Apr. 22; v. 261; p. 767.
- Smith, James E. (See Nolte and Smith.)
- Smith, James F., assignor of one-third to A. F. Ittner and one-third to A. H. Bradley, St. Louis, Mo. Tone-arm for talking-machines. No. 1,302,478; Apr. 29; v. 261; p. 936.
- Smith, James F., assignor of one-third to A. F. Ittner and one-third to A. H. Bradley, St. Louis, Mo. Sound-box for talking-machines. No. 1,302,479; Apr. 29; v. 261; p. 936.
- Smith, James M., assignor to The Kennedy Car Liner & Bag Co., Shelbyville, Ind. Paper bag. No. 1,292,902; Jan. 28; v. 258; p. 769.
- Smith, James T., Cherryvale, Kans. Clothespin. No. 1,324,077; Dec. 9; v. 269; p. 205.



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- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter writing machine. No. 1,290,387; Jan. 7; v. 258; p. 89.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter writing machine. No. 1,291,215; Jan. 14; v. 258; p. 311.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter writing machine. No. 1,304,213; May 20; v. 262; p. 388.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter writing machine. No. 1,307,641; June 24; v. 263; p. 544.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter writing machine. No. 1,325,762; Dec. 23; v. 269; p. 600.
- Smith, Jesse B., Cheyenne, Wyo. Lister attachment. No. 1,320,285; Oct. 28; v. 267; p. 608.
- Smith, Jesse C. (See Bellamy and Smith.)
- Smith, Jesse G., assignor of one-fourth to O. N. Barnett and one-fourth to L. C. Baumer, Port Arthur, Tex. Tire structure. No. 1,317,831; Oct. 7; v. 267; p. 33.
- Smith, Joel W., Ardmore, Okla. Locking means for freight-car doors. No. 1,308,646; July 1; v. 264; p. 117.
- Smith, John, Southbridge, Mass. Railway-track signal device. No. 1,307,380; June 24; v. 263; p. 497.
- Smith, John C., Sullivan, W. Va. Biscuit-cutter. No. 1,299,802; Apr. 8; v. 261; p. 299.
- Smith, John C., Monaca, Pa., assignor to Solar Electric Company. Container for fragile articles. No. 1,297,026; Mar. 11; v. 260; p. 310.
- Smith, John C., Monaca, Pa., assignor to Solar Electric Company. Lighting-socket support. No. 1,322,968; Nov. 25; v. 268; p. 657.
- Smith, John E., Pachuca, Mexico. Engine attachment. No. 1,325,266; Dec. 16; v. 269; p. 492.
- Smith, John F., assignor of one-half to C. M. Hemen and one-fourth to H. B. Burkhardt, Seattle, Wash. Coating the valves, cylinders, &c., of gas-engines and the like. No. 1,292,903; Jan. 28; v. 258; p. 769.
- Smith, John H., Chicago, Ill. Pocket for golf-bags. No. 1,306,083; June 10; v. 263; p. 191.
- Smith, John J., McDonough, Ga. Gin-saw sharpening and gumming device. No. 1,304,614; May 27; v. 262; p. 504.
- Smith, John L., Hamilton, Ontario, Canada. Device for removing flaws from steel billets while being rolled hot. No. 1,317,049; Sept. 23; v. 266; p. 547.
- Smith, John L. and S. A., Hamilton, Ontario, Canada. Reel-switch mechanism for rod-mills. No. 1,295,224; Feb. 25; v. 259; p. 612.
- Smith, John L. and S. A., Hamilton, Ontario, Canada. Retarder for rod-mills. No. 1,307,156; June 17; v. 263; p. 423.
- Smith, John M., New York, N. Y. Combination ink-bottle and inkwell. No. 1,322,144; Nov. 18; v. 268; p. 450.
- Smith, John O., Moberly, Mo. Vehicle-wheel. No. 1,299,628; Apr. 8; v. 261; p. 259.
- Smith, John P., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Expandable core for vulcanizing tires. No. 1,299,045; Apr. 1; v. 261; p. 99.
- Smith, John T., Hopkins, Minn. Baling-press. No. 1,302,723; May 6; v. 262; p. 46.
- Smith, John T., Hopkins, Minn. Attachment for threshing-machines. No. 1,302,867; May 6; v. 262; p. 74.
- Smith, John T., Hopkins, Minn. Attachment for threshing-machines and baling-presses. No. 1,320,717; Nov. 4; v. 268; p. 66.
- Smith, John W., Syracuse, N. Y. Cartridge-feed mechanism for firearms. No. 1,303,407; May 13; v. 262; p. 202.
- Smith, John W., Chicago, Ill. Detachable heel. No. 1,313,026; Aug. 12; v. 265; p. 255.
- Smith, John W., Newport News, Va. Explosive and incendiary device. No. 1,321,563; Nov. 11; v. 268; p. 291.
- Smith, Josiah, Fremont, Ohio. Staple-extracting tool. No. 1,290,846; Jan. 7; v. 258; p. 199.
- Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. Emulsifying-machine. No. 1,316,115; Sept. 16; v. 266; p. 323.
- Smith, Kenely E., Birmingham, Ala. Attachment for rulers. No. 1,310,685; July 22; v. 264; p. 589.
- Smith, Launcelot E., and H. R. Cameron, South Shields, England. Constructing bulkheads in ships, barges, pontoons, and the like. No. 1,294,962; Feb. 18; v. 259; p. 529.
- Smith, Lawrence A., Port Gibson, Miss. Humidor. No. 1,298,415; Mar. 25; v. 260; p. 660.
- Smith, Lee A., Garden Valley, Tex. Saw-handle. No. 1,294,553; Feb. 18; v. 259; p. 434.
- Smith, Leonard D., Helix, Oreg. Grain-treating apparatus. No. 1,313,027; Aug. 12; v. 265; p. 255.
- Smith, Leonard C., New York, N. Y. Heating apparatus. No. 1,303,977; May 20; v. 262; p. 345.
- Smith, Lily B., Atlanta, Ga. Retaining means for shoe-laces. No. 1,306,840; June 17; v. 263; p. 365.
- Smith, Link, S. D. McOsker, and J. R. Simpson, Enid, Okla. Detachable heel. No. 1,307,423; June 24; v. 263; p. 505.
- Smith, Lloyd, Yorkville, Ill. Printing-border. No. 1,303,733; May 13; v. 262; p. 262.
- Smith, Lloyd R., Milwaukee, Wis. Making integral cross-bar blanks for vehicle-frames. No. 1,323,555; Dec. 2; v. 269; p. 63.
- Smith, Lolita D., Honolulu, Hawaii. Stringed musical instrument. No. 1,304,914; May 27; v. 262; p. 560.
- Smith, Louis, assignor of one-half to W. L. Hall, Chicago, Ill. Proof and transfer press. No. 1,312,366; Aug. 5; v. 265; p. 95.
- Smith, Lucius A., Buffalo, N. Y. Truss. No. 1,294,963; Feb. 18; v. 259; p. 529.
- Smith, Luther N., Munsonville, N. H. Grapple. No. 1,305,175; May 27; v. 262; p. 609.
- Smith, Lyle M., Catlett, Va. Rail-joint-coupling device. No. 1,325,267; Dec. 16; v. 269; p. 492.
- Smith, Mabel E. (See Smith, Edward M. and M. E.)
- Smith, Mabel P. and P. D., Santa Cruz, Calif. Doll's eyes. No. 1,298,808; Apr. 1; v. 261; p. 45.
- Smith, Marion A., Salt Lake City, Utah. Beet-topping device. No. 1,308,921; July 8; v. 264; p. 196.
- Smith, Mark H. (See Boyle, Homer L., assignor.)
- Smith, Martin C., assignor of one-half to C. R. Frazier, Portland, Oreg. Vehicle-storage building. No. 1,303,978; May 20; v. 262; p. 346.
- Smith, Maxwell H., Philadelphia, Pa. Battery-adaptor. No. 1,304,214; May 20; v. 262; p. 388.
- Smith Metal Perforating Company. (See Smith, Andrew, assignor.)
- Smith, Mrs. M. O. (See Meadows, Vaughn H., assignor.)
- Smith, Milton A., assignor to The Taft-Peice Manufacturing Company, Woonsocket, R. I. Grinder head-stock. No. 1,303,607; May 13; v. 262; p. 239.
- Smith, Morris F., deceased; H. E. Smith, administratrix, Philadelphia, Pa., assignor to Driggs Ordnance Company, Incorporated, New York, N. Y. Gas-operated gun. No. 1,291,690; Jan. 14; v. 258; p. 422.
- Smith, Moses R., Madisonville, Ky. Lamp. No. 1,322,969; Nov. 25; v. 268; p. 657.
- Smith, Nelson R., Denver, Colo. Heating means for internal-combustion engines and automobiles. No. 1,326,539; Dec. 30; v. 269; p. 783.
- Smith, Newton H., Hamilton, Ill. Gate-fastening. No. 1,325,538; Dec. 23; v. 269; p. 559.
- Smith, Newton H., Hamilton, Ill., assignor of one-half to W. C. Howell, Keokuk, Iowa. Mechanism for operating earth-boring tools. No. 1,299,803; Apr. 8; v. 261; p. 299.
- Smith, Nicholas A., assignor of one-half to A. F. Winters, Grand Rapids, Mich. Toy bank. No. 1,305,750; June 3; v. 263; p. 98.
- Smith, Oakley, Chicago, Ill. Chart for naprapathic treatments. No. 1,290,388; Jan. 7; v. 258; p. 89.
- Smith, Oberlin. (See Nixon and Smith.)
- Smith, Oliver J., Monroe, La. Ash-pan. No. 1,293,223; Feb. 4; v. 259; p. 57.
- Smith, Oliver W. (See Blundell and Smith.)
- Smith, Orland V., Bridgeport, Conn. Bank deposit-book. No. 1,308,532; July 1; v. 264; p. 95.
- Smith, Oscar A. (See Drissner, Glosch, Henn, Smith, and Stern.)
- Smith, Oscar A., Cleveland, Ohio. Priming and testing cup. No. 1,304,110; May 20; v. 262; p. 369.
- Smith, Oscar A., Cleveland, Ohio. Priming and testing cup. No. 1,304,111; May 20; v. 262; p. 369.
- Smith, Oscar A., assignor to National Acme Company, Cleveland, Ohio. Self-opening threading-die. No. 1,318,115; Oct. 7; v. 267; p. 86.
- Smith, Oscar A., assignor to The National Acme Company, Cleveland, Ohio. Multiple-spindle lathe. No. 1,318,116; Oct. 7; v. 267; p. 86.
- Smith, Oscar A., and B. F. Rindfleisch, assignors to The National Acme Company, Cleveland, Ohio. Stud-threading machine. No. 1,315,427; Sept. 9; v. 266; p. 184.
- Smith, Oscar R. and E. A., Windsor, N. C. Brake-operating attachment for automobiles. No. 1,295,225; Feb. 25; v. 259; p. 612.
- Smith, Oscar R. and E. A., Windsor, N. C. Brake-operating attachment for automobiles. No. 1,295,226; Feb. 25; v. 259; p. 612.
- Smith, Otto C., Greenville, Pa. Baby-exerciser. No. 1,321,564; Nov. 11; v. 268; p. 291.
- Smith, Peter P. Jr., Jersey City, N. J., assignor to Monahan Rotary Engine Corporation, New York, N. Y. Piston. No. 1,304,615; May 27; v. 262; p. 505.
- Smith, Phillip A. F. (See Gieske, Joseph H., assignor.)
- Smith, Putnam D. (See Smith, Mabel P. and P. D.)
- Smith, Ralph L., Lansing, Mich. Oil-burner. No. 1,323,922; Dec. 2; v. 269; p. 132.
- Smith, Raphael L., St. Louis, Mo. Locking device for motor-vehicles. No. 1,292,114; Jan. 21; v. 258; p. 559.
- Smith, Ray A., Oakland, Calif. Game. No. 1,298,591; Mar. 25; v. 260; p. 698.
- Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Humidifier. No. 1,305,943; June 3; v. 263; p. 135.
- Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Humidifier apparatus. No. 1,305,944; June 3; v. 263; p. 136.
- Smith, Reuben S., Milwaukee, Wis. Magneto-generator. No. 1,291,216; Jan. 14; v. 258; p. 311.



- Smith, Reuben S., Milwaukee, Wis. Electrode for arc-welding. No. 1,301,331; Apr. 22; v. 261; p. 687.
- Smith, Reuben S., Milwaukee, Wis. Process and apparatus for producing electrically-welded joints. No. 1,323,556; Dec. 2; v. 269; p. 63.
- Smith, Reuben S., assignor, by mesne assignments, to A. O. Smith Corporation, Milwaukee, Wis. Steering tractor unit. No. 1,295,092; Feb. 18; v. 259; p. 558.
- Smith, Rexford M. (See Hoag and Smith.)
- Smith, Roland L., Everett, Mass. Leather-finishing process. No. 1,311,188; July 29; v. 264; p. 715.
- Smith, Robert B., Crafton, Pa. Pump. No. 1,322,145; Nov. 18; v. 268; p. 450.
- Smith, Robert M., San Francisco, Calif. Detachable cover for centrifugal extractors. No. 1,299,866; Apr. 8; v. 261; p. 313.
- Smith, Robert W. J., Houston, Tex. Power-transmitting mechanism. No. 1,301,982; Apr. 29; v. 261; p. 841.
- Smith, Rolland D., and H. A. Steele, Cleveland, Ohio. Vegetable-slicer. No. 1,317,050; Sept. 23; v. 266; p. 547.
- Smith, Ronald A., Mount Pleasant, Pa. Combined letter-sheet and envelop. No. 1,318,236; Oct. 7; v. 267; p. 111.
- Smith, Roscoe L., Berwick, Pa. Emergency shut-off valve. No. 1,300,301; Apr. 15; v. 261; p. 433.
- Smith, Roy H., Philadelphia, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,294,722; Feb. 18; v. 259; p. 473.
- Smith, Rudolph C., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Safety-clutch for elevator safety and other devices. No. 1,302,601; May 6; v. 262; p. 22.
- Smith, S. Irma, Memphis, Tenn. Cattle-guard. No. 1,314,910; Sept. 2; v. 266; p. 80.
- Smith, Scott V., and C. H. Parriott, Chauncey, Ill. Rotary internal-combustion engine. No. 1,320,182; Oct. 28; v. 267; p. 588.
- Smith, Sheridan A. (See Smith, John L. and S. A.)
- Smith, Sheridan A., Hamilton, Ontario, Canada. Inter-bearing-block. No. 1,306,678; June 10; v. 263; p. 303.
- Smith, Sidney, Vancouver, British Columbia, Canada. Rotary engine. No. 1,302,446; Apr. 29; v. 261; p. 930.
- Smith, Swan, St. Paul, Minn. Printing-press. No. 1,314,025; Aug. 26; v. 266; p. 495.
- Smith, Theron A., San Jose, Calif. Tire-rim-locking device. No. 1,307,461; June 24; v. 263; p. 513.
- Smith, Thomas, assignor of one-half to H. C. Frisbie, Cornell, Wis. Pasting and machine therefor. No. 1,299,804; Apr. 8; v. 261; p. 299.
- Smith, Thomas A., Denver, Colo. Scrubbing and polishing machine. No. 1,296,868; Mar. 11; v. 260; p. 273.
- Smith, Thomas B., Cheriton, Va. Aeroplane. No. 1,297,604; Mar. 18; v. 260; p. 462.
- Smith, Thomas E., Los Angeles, assignor to Enderb Traffic Signal Company, Bakersfield, Calif. Switch. No. 1,300,665; Apr. 15; v. 261; p. 510.
- Smith, Thomas H., El Paso, Tex. Automobile-alarm. No. 1,311,019; July 22; v. 264; p. 651.
- Smith, W. A. (See Bowman, Levi M., assignor.)
- Smith, Walter A., assignor of one-half to L. J. Walker, Milk River, Alberta, Canada. Self-extinguishing lamp. No. 1,295,808; Feb. 25; v. 259; p. 747.
- Smith, Walter C., Roselle, N. J., assignor to United States Smelting, Refining & Mining Company. Making copper cadmium alloy. No. 1,307,642; June 24; v. 263; p. 544.
- Smith, Walter F., Minneapolis, Minn. Fender mechanism. No. 1,293,224; Feb. 4; v. 259; p. 57.
- Smith, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. No. 1,312,757; Aug. 12; v. 265; p. 202.
- Smith, Walter H., Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company. Auxiliary gripper. No. 1,320,345; Oct. 28; v. 267; p. 619.
- Smith, Walter P., Reform, Ala. Insertible saw-tooth. No. 1,294,554; Feb. 18; v. 259; p. 434.
- Smith, Walter P., Reform, Ala. Globe-map. No. 1,302,602; May 6; v. 262; p. 23.
- Smith, Walter P., Cranberry Lake, N. Y. Slide. No. 1,324,699; Dec. 9; v. 269; p. 324.
- Smith, Walter T., assignor to Cornell Wood Products Company, Cornell, Wis. Scraper-bar support for pasting-machines. No. 1,311,721; July 29; v. 264; p. 815.
- Smith, Wesley L., Pittsburgh, Pa. Shade-guide. No. 1,307,709; June 24; v. 263; p. 556.
- Smith, Wesley L., Pittsburgh, Pa. Artificial tooth. No. 1,315,997; Sept. 16; v. 266; p. 302.
- Smith & Wesson. (See Wesson, Joseph H., assignor.)
- Smith, Wilbur J., Coldwater, Kans. Collapsible funnel. No. 1,305,627; June 3; v. 263; p. 77.
- Smith, William A. (See Bowman, Levi M., assignor.)
- Smith, William A., Olympia, Wash. Pocket-book. No. 1,305,569; June 3; v. 263; p. 65.
- Smith, William A., Olympia, Wash. Belt. No. 1,317,993; Oct. 7; v. 267; p. 63.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. No. 1,324,078; Dec. 9; v. 269; p. 205.
- Smith, William A., assignor to The Denver Rock Drill Manufacturing Co., Denver, Colo. Rock-drill. No. 1,293,225; Feb. 4; v. 259; p. 57.
- Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,293,960; Feb. 11; v. 259; p. 260.
- Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,293,961; Feb. 11; v. 259; p. 260.
- Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,318,617; Oct. 14; v. 267; p. 244.
- Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drilling apparatus. No. 1,318,618; Oct. 14; v. 267; p. 244.
- Smith, William A., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drilling apparatus. No. 1,319,975; Oct. 28; v. 267; p. 550.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. No. 1,311,925; Aug. 5; v. 265; p. 14.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for hammer-drills. No. 1,321,565; Nov. 11; v. 268; p. 292.
- Smith, William C., Mount Vernon, N. Y. Sanitary milk-measure. No. 1,292,904; Jan. 28; v. 258; p. 769.
- Smith, William C., assignor to The L. D. Caulk Company, Milford, Del. Former for matrices for use in the restoration of teeth. No. 1,304,396; May 20; v. 262; p. 424.
- Smith, William E., Scotland Neck, N. C. Attachment for steam cotton-trampers. No. 1,297,027; Mar. 11; v. 260; p. 310.
- Smith, William F., St. Louis, Mo. Vending-machine. No. 1,294,964; Feb. 18; v. 259; p. 529.
- Smith, William F., San Francisco, Calif. Electrically-operated type-writer. No. 1,324,751; Dec. 9; v. 269; p. 334.
- Smith, William G., Scarsdale, and J. P. Lisk, Brooklyn, N. Y. Humidifier. No. 1,305,945; June 3; v. 263; p. 136.
- Smith, William G., New York, N. Y. Carbureter-support. No. 1,311,020; July 22; v. 264; p. 651.
- Smith, William H., Chicago, Ill. Adding-machine. No. 1,325,212; Dec. 16; v. 269; p. 481.
- Smith, William L., Oil City, Pa. Braking-valve for internal-combustion engines. No. 1,310,094; July 15; v. 264; p. 450.
- Smith, William J. (See Houck, John C. Jr., assignor.)
- Smith, William J. (See Urbanski and Smith.)
- Smith, William J., Portage La Prairie, Manitoba, Canada. Ventilator. No. 1,308,264; July 1; v. 264; p. 47.
- Smith, William J., Roswell, N. Mex. Window or door screen. No. 1,325,961; Dec. 23; v. 269; p. 637.
- Smith, William L., Ontonagon, Mich. Combined log loader and decker. No. 1,311,469; July 29; v. 264; p. 768.
- Smith, William M., Woodward, Okla. Spring-wheel. No. 1,298,592; Mar. 25; v. 260; p. 698.
- Smith, William M., Evansville, Ind. Explosive shell. No. 1,313,129; Aug. 12; v. 265; p. 276.
- Smith, William R., Fredric, Iowa. Attachment for motor-cars. No. 1,319,806; Oct. 28; v. 267; p. 518.
- Smith, William S., and S. N. Crider, Hagerstown, Md. Drive-belt. No. 1,313,028; Aug. 12; v. 265; p. 255.
- Smith, William W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Organized thrust-bearing and reduction-gearing. No. 1,306,157; June 10; v. 263; p. 204.
- Smith, Winfield D., Newark, N. J. Manually-propelled vehicle. No. 1,326,697; Dec. 30; v. 269; p. 812.
- Smith, Winfield D., assignor of one-half to B. Meyer, Newark, N. J. Pivot-plate. No. 1,304,616; May 27; v. 262; p. 505.
- Smithy, Marvin, Lawrenceville, Va. Meter. No. 1,307,157; June 17; v. 263; p. 423.
- Smithy, Marvin, Lawrenceville, Va. Meter. No. 1,314,285; Aug. 26; v. 265; p. 545.
- Smith's Falls Malleable Castings Company. (See Stewart, Walter A., assignor.)
- Smithson, Charles W., and J. H. Shank, Blanchester, Ohio. Grinding apparatus. No. 1,294,315; Feb. 11; v. 259; p. 344.
- Smits, Wiltje B., Diemen, Kerhlaan, Netherlands. Electrical tea-heater. No. 1,319,728; Oct. 28; v. 267; p. 504.
- Smock, Claude V., Portland, Oreg. Jar-lid lifter. No. 1,320,102; Oct. 28; v. 267; p. 574.
- Smock, Howard A., Indianapolis, Ind. Combined kerosene-converter and gas-burner. No. 1,293,226; Feb. 4; v. 259; p. 57.
- Smock, Howard A., assignor of one-tenth to T. Cohen, Indianapolis, Ind. Kerosene blow-torch. No. 1,308,452; July 1; v. 264; p. 81.
- Smogala, Jan. (See Jasinski and Smogala.)
- Smolarski, Jan. Omaha, Neb. Vessel-lid. No. 1,308,583; July 1; v. 264; p. 95.
- Smolensky, Michael, Cleveland, Ohio. Safety-valve. No. 1,322,638; Nov. 25; v. 268; p. 596.
- Smolinsky, Theodor, Gary, Ind. Work-support. No. 1,306,782; June 17; v. 263; p. 355.
- Smolinsky, Theodore, Gary, Ind. Kitchen utensil. No. 1,306,783; June 17; v. 263; p. 355.
- Smolinsky, Theodore, Gary, Ind. Toy. No. 1,315,746; Sept. 9; v. 266; p. 241.



## Alphabetical list of patentees—Continued.

- Smolley, Wayne, Brookville, Ind. Corn-husking machine. No. 1,317,736; Oct. 7; v. 267; p. 14.
- Smoot, Charles H. (See Jones and Culver, assignors.)
- Smoot, Charles H., South Orange, N. J., assignor to The Rateau, Battu, Smoot Engineering Corporation, New York, N. Y. Fluid-control valve. No. 1,311,536; July 29; v. 264; p. 781.
- Smoot, Charles H., South Orange, N. J., assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y. Fluid-control valve. No. 1,322,207; Nov. 18; v. 268; p. 462.
- Smrz, James P., Chicago, Ill. Laundry-machine. No. 1,302,868; May 6; v. 262; p. 74.
- Smuck, Frank X., Kitchener, Ontario, Canada. Rowing device. No. 1,313,130; Aug. 12; v. 265; p. 276.
- Smuck, Osborne, Glanford township, Wentworth county, Ontario, Canada. Stop for doubletrees. No. 1,326,219; Dec. 30; v. 269; p. 722.
- Smyly, Arthur L., Chicago, Ill. Fluid-pressure governor. No. 1,293,227; Feb. 4; v. 259; p. 58.
- Smyth, Herbert C. H., London, England. Electric generator for lighting motor-cars. No. 1,323,111; Nov. 25; v. 268; p. 684.
- Smyth Manufacturing Company, The. (See Reynolds, John R., assignor.)
- Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Preheating apparatus for furnaces. No. 1,305,176; May 27; v. 262; p. 609.
- Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Continuous furnace. No. 1,310,846; July 22; v. 264; p. 620.
- Smythe, Horace E., assignor to The S. R. Smythe Company, Pittsburgh, Pa. Preheating-furnace. No. 1,322,208; Nov. 18; v. 268; p. 462.
- Smythe, Joseph B., Coaticook, Quebec, Canada. Lifting-jack. No. 1,303,734; May 13; v. 262; p. 262.
- Smythe, Joseph B., Coaticook, Quebec, Canada. Brake mechanism for lifting-jacks. No. 1,315,874; Sept. 9; v. 266; p. 265.
- Smythe, Joseph B., Coaticook, Quebec, Canada. Governor. No. 1,315,875; Sept. 9; v. 266; p. 265.
- Snape, Richard H., Bridgetown, assignor of thirty one-hundredths to F. L. Davidson, Halifax, Nova Scotia, Canada. Washing and drying machine. No. 1,293,962; Feb. 11; v. 259; p. 260.
- Snapp, Bert M., Balhoo, Canal Zone. Coupon-counting machine. No. 1,311,849; July 29; v. 264; p. 838.
- Snavelly, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light-signal. No. 1,298,809; Apr. 1; v. 261; p. 45.
- Snavelly, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Warning-signal for grade intersections of railways and highways. No. 1,316,516; Sept. 16; v. 266; p. 400.
- Snavelly, Clarence S., Wilkensburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Mounting for contact-fingers and adjusting the same. No. 1,309,108; July 8; v. 264; p. 232.
- Snead & Co. Iron Works, The. (See Macdonald, Harry P., and A. S., assignors.)
- Snead, Herndon G., Birmingham, Ala. Insect-trap. No. 1,304,397; May 20; v. 262; p. 424.
- Sneary, John H. (See Patton and Sneary.)
- Snedden, William T., Kansas City, Mo. Gearless differential. No. 1,300,500; Apr. 15; v. 261; p. 476.
- Sneddon, James P., Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. (Reissue.) No. 14,620; Mar. 25; v. 260; p. 707.
- Sneddon, James P., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,318,509; Oct. 14; v. 267; p. 224.
- Sneddon, James P., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 1,321,566; Nov. 11; v. 268; p. 292.
- Snedeker, James W., Adrian, Mich. Fabric. No. 1,325,590; Dec. 23; v. 269; p. 568.
- Sneeston, William H., Somerville, assignor to N. H. Seelye, Winchester, Mass. Die-press. No. 1,299,046; Apr. 1; v. 261; p. 99.
- Snelerson, Samuel L. (See Riley, Lester S., assignor.)
- Snell, Harry B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Wire-bending machine. No. 1,316,257; Sept. 16; v. 266; p. 350.
- Snell, Harry B., assignor of one-fourth to W. H. Edwards, and one-fourth to F. E. Whitehall, South Bend, Ind. Alternating-current rectifier. No. 1,326,698; Dec. 30; v. 269; p. 812.
- Snell, Lyle K. (See White and Snell.)
- Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,310,898; July 22; v. 264; p. 629.
- Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,321,157; Nov. 11; v. 268; p. 214.
- Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,321,857; Nov. 18; v. 268; p. 398.
- Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,324,853; Dec. 16; v. 269; p. 414.
- Snell, Lyle K., and F. Johnson, assignors to Cadillac Motor Car Company, Detroit, Mich. Compressor system. No. 1,324,079; Dec. 9; v. 269; p. 205.
- Snell, Samuel A., Mineral Ridge, Ohio, assignor to The Moon Brothers Manufacturing Company, St. Louis, Mo. Air-pump. No. 1,292,905; Jan. 28; v. 258; p. 769.
- Snell, Wallace W. (See Simonson, Fenwick W., assignor.)
- Snell, William W. H., New York, N. Y. Boat-launching device. No. 1,295,626; Feb. 25; v. 259; p. 705.
- Snelling, John C., Chiswick, London, England. Construction of reinforced-concrete ships. No. 1,301,013; Apr. 15; v. 261; p. 584.
- Snelling, Walter O., Allentown, Pa. Preparation of colloid bodies. No. 1,305,946; June 3; v. 263; p. 136.
- Snelling, Walter O., Allentown, Pa. Fertilizing method and material. No. 1,308,453; July 1; v. 264; p. 81.
- Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive compound. No. 1,310,969; July 22; v. 264; p. 641.
- Snelling, Walter O., Allentown, Pa. Photochemical process. No. 1,325,214; Dec. 16; v. 269; p. 482.
- Snelling, Walter O., Long Island City, N. Y. Coating process and apparatus. No. 1,310,037; July 15; v. 264; p. 439.
- Snelling, Walter O., Pittsburgh, Pa. Treating vulcanized oils and products thereof. No. 1,315,246; Sept. 9; v. 266; p. 151.
- Snelling, Walter O., Pittsburgh, Pa. Water purification. No. 1,325,213; Dec. 16; v. 269; p. 482.
- Snelling, Walter O., assignor to Trojan Powder Company, Allentown, Pa. Fertilizing-explosive. No. 1,316,396; Sept. 16; v. 266; p. 376.
- Sneva, Adlai, assignor of one-fourth to E. A. Sneva, Divide county, N. D. Shoe-closure. No. 1,294,965; Feb. 18; v. 259; p. 530.
- Sneva, E. A. (See Sneva, Adlai, assignor.)
- Snider, Charles H., and L. D. Magrath, Conway, S. C. Shampoo-comb. No. 1,322,639; Nov. 25; v. 268; p. 596.
- Snider, R. E. (See Frey, George E., assignor.)
- Snider, Warren L., Hot Springs, Ark. Power-transmission device. No. 1,299,629; Apr. 8; v. 261; p. 259.
- Snigo, James J., Pittsburgh, Pa. Receptacle. No. 1,315,247; Sept. 9; v. 266; p. 151.
- Snively, Jacob H., Seattle, Wash. Mount for photographic films. No. 1,317,946; Oct. 7; v. 267; p. 54.
- Snodgrass, Alfred T., Manchester, England. Manufacture of artificial abrasives. No. 1,314,835; Sept. 2; v. 266; p. 67.
- Snow, Arthur E., Erie, Pa., assignor to The American Laundry Machinery Company, Norwood, Ohio. Clothes-pressing apparatus. No. 1,309,589; July 8; v. 264; p. 321.
- Snow, Frank E. (See Demers, Gordon, and Snow.)
- Snow, Frank P., Los Angeles, Calif. Cut-off gate-valve. No. 1,300,200; Apr. 8; v. 261; p. 385.
- Snow, Leon U., Lincoln, Nebr. Blow-torch. No. 1,296,869; Mar. 11; v. 260; p. 273.
- Snow, Willard C. (See Avery, Gepp, Stevens, Snow, and Whitecotton.)
- Snowden, Charles W., Bay City, Mich. Device for printing on wrapping-paper. No. 1,293,963; Feb. 11; v. 259; p. 261.
- Snyder, Adam A. E., Bangor, Pa. Adjustable overhead support for hoists. No. 1,309,048; July 8; v. 264; p. 220.
- Snyder, Agnes, Duluth, Minn. Collar-button notch. No. 1,290,672; Jan. 7; v. 258; p. 160.
- Snyder, Charles. (See Reiss, George E., assignor.)
- Snyder, Charles I., Pleasantville, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Safety-box for exclusive powder. No. 1,302,869; May 6; v. 262; p. 74.
- Snyder, Charles W., Altoona, Pa. Pipe-coupling. No. 1,299,047; Apr. 1; v. 261; p. 99.
- Snyder, Charlie R., Columbus, Ohio. Sweat-band protector. No. 1,304,215; May 20; v. 262; p. 388.
- Snyder, Edgar W., Los Angeles, Cal., assignor, by mesne assignments, to Ocotillo Products Company. Sized yarn or thread. No. 1,290,795; Jan. 7; v. 258; p. 188.
- Snyder, Emmanucl H., Davenport, Iowa. Can. No. 1,316,600; Sept. 23; v. 266; p. 464.
- Snyder, Ferdinand H., Shenandoah Junction, W. Va. Snubber. No. 1,325,121; Dec. 16; v. 269; p. 465.
- Snyder, Frank A., Pittsburgh, Pa. Motor for vehicles. No. 1,301,614; Apr. 22; v. 261; p. 738.
- Snyder, Frederick T., Oak Park, Ill. Apparatus for the production of metallic nitrids. No. 1,305,414; June 3; v. 263; p. 35.
- Snyder, Frederick T., Oak Park, assignor to Industrial Electric Furnace Company, Chicago, Ill. Electric furnace. No. 1,325,539; Dec. 23; v. 269; p. 559.
- Snyder, Henry B., Atlantic City, N. J. Toy. No. 1,293,566; Feb. 4; v. 259; p. 138.
- Snyder, Henry C., Jr., Effingham, Kans. Dual-power transmission for cycle-bars of mowing-machines. No. 1,313,961; Aug. 26; v. 265; p. 482.
- Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Wringer. No. 1,316,601; Sept. 23; v. 266; p. 464.



- Snyder, Jacob L., assignor to Columbia Ice Cream Horn Company, Roxbury, Mass. Device employed in the manufacture of ice-cream horns or cones. No. 1,326,540; Dec. 30; v. 269; p. 783.
- Snyder, Jacob R., assignor to P. E. Donner, Pittsburgh, Pa. Power reversing-gear. No. 1,290,889; Jan. 7; v. 258; p. 89.
- Snyder, Jacob R., assignor to P. E. Donner, Pittsburgh, Pa. Valve reversing gear. No. 1,295,934; Mar. 4; v. 260; p. 26.
- Snyder, Jacob R., assignor to P. E. Donner, Pittsburgh, Pa. Steam-engine reversing-gear. No. 1,302,096; Apr. 29; v. 261; p. 863.
- Snyder, Jacob R., assignor to P. E. Donner, Pittsburgh, Pa. Triple valve. No. 1,302,984; May 6; v. 262; p. 96.
- Snyder, Jacob R., assignor to P. E. Donner, Pittsburgh, Pa. Triple valve. No. 1,302,985; May 6; v. 262; p. 96.
- Snyder, Jacob R., assignor to P. E. Donner, Pittsburgh, Pa. Triple valve for air-brake systems and attachment therefor. No. 1,302,986; May 6; v. 262; p. 97.
- Snyder, Jacob R., and H. W. Fleming, assignors to P. E. Donner, Pittsburgh, Pa. Power-reverse gear. No. 1,303,979; May 20; v. 262; p. 346.
- Snyder, Jesse, Chicago, Ill. Window-ventilator. No. 1,294,316; Feb. 11; v. 259; p. 344.
- Snyder, John G., New York, N. Y. Railway tie and fastener. No. 1,315,169; Sept. 2; v. 266; p. 127.
- Snyder, Louis A. (See Danley and Snyder.)
- Snyder, Martin S., Calgary, Alberta, Canada. Tip. No. 1,313,422; Aug. 19; v. 265; p. 347.
- Snyder, O. K., Onaway, Mich. Steering-wheel. No. 1,299,048; Apr. 1; v. 261; p. 99.
- Snyder, Samuel W., assignor of one-half to C. A. Ready, Hayes Center, Nebr. Disk-sharpener. No. 1,315,747; Sept. 9; v. 266; p. 241.
- Snyder, Simon, assignor to Sprout, Waldron & Company, Muncy, Pa. Controlling device for gratory bolters. No. 1,323,329; Dec. 2; v. 269; p. 20.
- Snyder, Theophilus F., Delphos, Ohio. Automobile couch-seat. No. 1,318,930; Oct. 14; v. 267; p. 303.
- Snyder, Vilas L., Douglas, Okla. Air-pump. No. 1,326,427; Dec. 30; v. 269; p. 761.
- Soames, Alfred. (See Langdon-Davies, Walter, assignor.)
- Soames, Alfred, and W. L. Davies, London, England. Electromagnetic clutch. No. 1,306,784; June 17; v. 263; p. 355.
- Soap Works Equipment Company. (See Young, De Nard W. R., assignor.)
- Sobanski, Antoni, Vancouver, British Columbia, Canada. Fishhook. No. 1,322,365; Nov. 18; v. 268; p. 492.
- Soccio, Andrew, Altoona, Pa. Tensioning device for looms. No. 1,308,121; July 1; v. 264; p. 21.
- Sochurek, George, New York, N. Y. Toy airplane. No. 1,323,112; Nov. 25; v. 268; p. 684.
- Sociedad Metalurjica Chilena Cuprum. (See Malsch and Gilson, assignors.)
- Società Anonima Italiana Gio. Ansaldo & C. (See Fer-rati, Pecoraro, and Guidoni, assignors.)
- Società Anonima Italiana Gio. Ansaldo & C. (See Giolitti, Federico, assignor.)
- Società Anonima Italiana Gio. Ansaldo & C. (See Morali, Ricciotti, assignor.)
- Società Anonima Stabillimenti Biak. (See Fossati, Mario, assignor.)
- Società Anonima Stabillimenti Biak. (See Salvati, Michele N., assignor.)
- Società Italiana di Electrochimica. (See Bianchini, Leone L., assignor.)
- Société Amieux Frères & Cie. (See Amieux, Louis E., assignor.)
- Société Anonyme Corderies de la Seine. (See Le Car-pentier, Victor, assignor.)
- Société Anonyme des Anciens Etablissements Kotchikiss & Cie. (See Mercié, Henri A., assignor.)
- Société Anonyme des Anciens Etablissements Hotchkiss & Cie. (See Squire and Mercié, assignors.)
- Société Anonyme Des Ateliers D'Aviation Louis Breguet. (See Breguet, Louis, assignor.)
- Société Anonyme Des Etablissements Delaunay-Belleville, The. (See Radiguer, Charles, assignor.)
- Société Anonyme Des Etablissements Justin Dupont. (See Dupont, Justin, assignor.)
- Société Anonyme Des Etablissements Nieuport. (See Bazaine, Léon, assignor.)
- Société Anonyme Des Treffleries Et Laminiers Du Havre, Anciens Etablissements Lazare Weiller, Societe Coöper-ative De Rugies Et La Canalisation Electrique Reunis. (See Levy, Paul, assignor.)
- Société Anonyme des Usines Giuliani. (See Van Cordt, Gab-riell, assignor.)
- Société Anonyme Fabrique de Soie Artificielle de Tubize. (See Dryen, Achille, assignor.)
- Société Anonyme l'Helice Intégrale (Anciens Etablisse-ments L. Chauviere). (See Chauvière, Lucien, as-signor.)
- Société Anonyme la Photogravure Rotative. (See Simon, Jacques, assignor.)
- Société Anonyme pour l'Exploitation des Procédés West-inghouse Leblanc. (See Van Deuren, Delas, and Le-blanc, assignors.)
- Société "Aris." (See Berlioz, Eugène S., assignor.)
- Société Chimique des Usines du Rhone Anciennement Gil-liard P. Monnet et Cartier. (See Altwegg, Jean, as-signor.)
- Société Chimique des Usines du Rhone, (Anciennement, Gilliard, P. Monnet et Cartier.) (See Koetschet and Beudet, assignors.)
- Société Chimique Des Usines Du Rhone, anciennement Gilliard, P. Monnet et Cartier. (See Koetschet and Beudet, assignors.)
- Société d'Eclairage Chauffage et Force Motrice, Siege social. (See Leroux, Henri, assignor.)
- Société d'Etudes Chimiques pour l'Industrie. (See Goudet Charles, assignor.)
- Société d'Optique et de Mecanique de Haute Precision. (See Fausse, Henri, assignor.)
- Société Des Moteurs Salmson (Système Canton-Unne). (See Postel-Vinay, Pierre J. R., assignor.)
- Société Des Moteurs Salmson (Système Canton-Unne). (See Salmson, Emile J. J., assignor.)
- Société E. Barbet & Fils & Cie. (See Barbet, Emile A., assignor.)
- Société E. H. Moll & Cie. (See Alexandre, Armand H., assignor.)
- Société Electro Metallurgique Francaise. (See Sejournet, Paul, assignor.)
- Société Francaise des Glycerines. (See Boutet, Robert, assignor.)
- Société Francaise du Ceramoid. (See Galley, Auguste P., assignor.)
- Société Franco-Belge de Fours à Coke. (See Piette, Olivier, assignor.)
- Société Lorraine des Anciens Etablissements de Dietrich & Cie. (See Maire, Auguste, assignor.)
- Société Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)
- Société R. Hanriot et Cie. (See Hanriot and Gratieux, as-signors.)
- Society Des Moteurs Salmson (Système Canton-Unne). (See Salmson, Emile J. J., assignor.)
- Society of Chemical Industry in Basle. (See Anderwert, Fritzsche, and Schobel, assignors.)
- Society of Chemical Industry in Basle. (See Fraenkel and Herrmann, assignors.)
- Society of Chemical Industry in Basle. (See Fritzsche, Hermann, assignor.)
- Society of Chemical Industry in Basle. (See Gams, Alfons, assignor.)
- Society of Chemical Industry in Basle. (See Girard, Max, assignor.)
- Society of Chemical Industry in Basle. (See Grob and Würger.)
- Society of Chemical Industry in Basle. (See Jager-spacher, Carl, assignor.)
- Society of Chemical Industry in Basle. (See Posternak.)
- Society of Chemical Industry in Basle. (See Reber and Siegwart, assignors.)
- Society of Chemical Industry in Basle. (See Seitz and Wintz, assignors.)
- Society of Chemical Industry in Basle. (See Steinbuch and Schetelig, assignors.)
- Soder, Oscar, Niederlenz, Switzerland. Cylinder-grinding mill. No. 1,304,819; May 27; v. 262; p. 543.
- Sodergren, Ernest J. (See Kirscht and Sodergren.)
- Soderling, Walter, New York, N. Y. Respirator. No. 1,292,115; Jan. 21; v. 258; p. 560.
- Soderling, Walter, New York, N. Y. Respirator. No. 1,317,947; Oct. 7; v. 267; p. 55.
- Söderlund, Carl G., Gottenborg, assignor to Aktiebolaget Lidköpings Mekaniska Verkstad, Lidköping, Sweden. Method and machine to bend metal wire into loops. No. 1,326,541; Dec. 30; v. 269; p. 783.
- Soderlund, Per H., Alameda, Calif. Automobile-door closer. No. 1,324,363; Dec. 9; v. 269; p. 260.
- Soderquist, Arnold T., Dalbo, Minn. Rain-alarm. No. 1,295,227; Feb. 25; v. 259; p. 613.
- Soderquist, John, Beloit, Wis. Furnace-flue cleaner. No. 1,312,814; Aug. 12; v. 265; p. 213.
- Soderstrom, John A. (See Zagel, Jacob, assignor.)
- Soderstrom, John A., assignor of one-half to J. Zagel, Chicago, Ill. Necktie-fastener. No. 1,305,947; June 3; v. 263; p. 136.
- Soderstrom, Oscar W., New York, N. Y., and W. Fuhr-mann, Westfield, N. J. Button-machine. No. 1,305,570; June 3; v. 263; p. 65.
- Soemer, Joseph C., Newark, N. J. Internal-combustion engine. No. 1,306,639; June 10; v. 263; p. 296.
- Sofge, Theodore W., Memphis, Tenn. Small submarine. No. 1,304,617; May 27; v. 262; p. 505.
- Sohm, Alfred L., Chicago, Ill., assignor, by mesne assign-ments, to Sohm Electric Company, trustee, Pawl-and-ratchet mechanism. No. 1,296,870; Mar. 11; v. 260; p. 274.
- Sohm, Alfred L., assignor to Sohm Electric Company, Chi-cago, Ill. Secondary clock. No. 1,302,603; May 6; v. 262; p. 23.
- Sohm, Alfred L., assignor to Sohm Electric Company, Chi-cago, Ill. Secondary-clock system. No. 1,302,604; May 6; v. 262; p. 23.
- Sohm, Alfred L., assignor to Sohm Electric Company, Chi-cago, Ill. Secondary clock. No. 1,302,605; May 6; v. 262; p. 23.



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- Sohm, Alfred L., assignor to Sohm Electric Company, Chicago, Ill. Workman's time-recorder. No. 1,304,618; May 27; v. 262; p. 505.
- Sohm, Alfred L., assignor to Sohm Electric Company, Chicago, Ill. Program device. No. 1,317,109; Sept. 23; v. 266; p. 559.
- Sohm, Alfred L., assignor to Sohm Electric control mechanism. No. 1,323,330; Dec. 2; v. 269; p. 20.
- Sohm Electric Company, trustee. (See Sohm, Alfred L., assignor.)
- Sohn, Edward. (See Wolfermann and Sohn.)
- Sohn, Peter O., Zumbrota, Minn. Grain-separator. No. 1,317,181; Sept. 30; v. 266; p. 608.
- Soll Improvement Committee of the National Fertilizer Association. (See Haskell, Sidney B., assignor.)
- Sokol, Arthur, New York, N. Y. Calendar. No. 1,312,591; Aug. 12; v. 265; p. 170.
- Sokol, Sam, Dorchester, Mass. Bomb-thrower. No. 1,319,310; Oct. 21; v. 267; p. 401.
- Sokol, Sem, South Boston, Mass. Breast-plate. No. 1,303,510; May 13; v. 262; p. 221.
- Sokolow, Samuel, and S. Polinsky, New York, assignors to C. Hubert, White Plains, N. Y. Means for forming battery elements, &c. No. 1,302,237; Apr. 29; v. 261; p. 889.
- Sokolow, Samuel, and S. Polinsky, New York, assignors to C. Hubert, White Plains, N. Y. Means for forming battery elements, &c. No. 1,302,722; May 6; v. 262; p. 45.
- Sokolowski, John, assignor of one-half to L. Piechocki, Milwaukee, Wis. Bayonet and gun-socket therefor. No. 1,317,051; Sept. 23; v. 266; p. 547.
- Solar Electric Company. (See Smith, John C., assignor.)
- Solar Metal Products Co. (See Edwards, Albert, assignor.)
- Solar Metal Products Company. (See Gogay, Henry R., assignor.)
- Solberg, Louis J., Malta, Mont. Folding clamp. No. 1,310,551; July 22; v. 264; p. 564.
- Sole, William C., Sullivan, Ind. Shaft-bearing. No. 1,292,906; Jan. 28; v. 258; p. 769.
- Solem, Peter A., Cincinnati, Ohio. Drum for sander-machines. No. 1,302,724; May 6; v. 262; p. 46.
- Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock. No. 1,300,037; Apr. 8; v. 261; p. 349.
- Sollazzo, John, Port Richmond, N. Y. Rotary engine. No. 1,305,314; June 3; v. 263; p. 16.
- Sollender, Albert P., Chicago, Ill. Combustion-promoting device. No. 1,324,281; Dec. 9; v. 269; p. 244.
- Solmas, Willy J. (See Luciani, Jacques, assignor.)
- Soloelle Company. (See Long, Frank B., assignor.)
- Solomon, Harry, St. Joseph, Mo. Towel-cabinet. No. 1,299,630; Apr. 8; v. 261; p. 259.
- Solomon, Harry D. (See Solomon, Thomas N. and H. D.)
- Solomon, Lucius H., Tiffin, Ohio. Poultry-watering device. No. 1,315,047; Sept. 2; v. 266; p. 105.
- Solomon, Thomas N. and H. D., Detroit, Mich. Air-dumping ballast-car. No. 1,297,924; Mar. 18; v. 260; p. 530.
- Solvay Process Company, The. (See Bacon, Nathaniel T., assignor.)
- Sombra, Guilherme, Rio de Janeiro, Brazil. Adjustable chair. No. 1,324,013; Dec. 2; v. 269; p. 149.
- Somers, Pinckney F., Stony Point, N. C. Check-line coupling. No. 1,303,735; May 13; v. 262; p. 262.
- Somerville, Albert A. (See Brown and Somerville.)
- Somerville, Albert A., Flushing, N. Y., assignor to New York Belting and Packing Company. Decorated rubber article and making same. No. 1,309,703; July 15; v. 264; p. 379.
- Somerville, Albert A., Flushing, N. Y., assignor to American Rubber Company. Device for setting up and maintaining predetermined conditions in various mediums. No. 1,320,580; Nov. 4; v. 268; p. 42.
- Somerville, Albert A., Flushing, N. Y., assignor to New York Belting & Packing Company. Belt. No. 1,322,067; Nov. 18; v. 268; p. 436.
- Somes, Walter F., Boston, Mass. Packing for turbine-shafts and the like. No. 1,308,454; July 1; v. 264; p. 81.
- Somes, Walter F., Boston, assignor to W. B. Merrill, Newton, Mass. Fire-check. No. 1,294,966; Feb. 18; v. 259; p. 530.
- Sommer, Edward J. A., Buffalo, N. Y. Bicycle-grip. No. 1,295,627; Feb. 25; v. 259; p. 705.
- Sommer, Henry J., and P. Saha, Hollidaysburg, Pa. Process and apparatus for making wax films. No. 1,321,401; Nov. 11; v. 268; p. 261.
- Sommer, Otto, assignor to the Firm of Barrages Automatiques Société Anonyme, Zurich, Switzerland. Weir. No. 1,322,146; Nov. 18; v. 268; p. 451.
- Sommer, William H., Peoria, assignor, by mesne assignments, to The First Trust and Savings Company, Cleveland, Ohio, and W. E. Stone, trustees, Peoria, Ill. Securing wire fillings to frames. No. 1,301,517; Apr. 22; v. 261; p. 721.
- Sommer, William H., Peoria, assignor, by mesne assignments, to The First Trust & Savings Company, Cleveland, Ohio, and W. E. Stone, trustees, Peoria, Ill. Securing wire fillings to frames. No. 1,301,518; Apr. 22; v. 261; p. 721.
- Sommer, William H., assignor, by mesne assignments, to The First Trust and Savings Company, Cleveland, Ohio, and W. E. Stone, trustees, Peoria, Ill. Machine for manufacturing wire-fence fabrics. No. 1,307,563; June 24; v. 263; p. 530.
- Sommerlatte, Joseph A., Hallettsville, Tex. Tie-spacer. No. 1,319,931; Oct. 28; v. 267; p. 542.
- Sommers, Edward P., Los Angeles, Calif. Starter for internal-combustion engines. No. 1,307,026; June 17; v. 263; p. 400.
- Sommers, Herman, Newark, N. J., and S. Scheraga, New York, N. Y. Hand-tool. No. 1,315,644; Sept. 9; v. 266; p. 222.
- Sommerville, Newton M., Emerick, Nebr. Detachable gearing for mowers. No. 1,298,110; Mar. 25; v. 260; p. 595.
- Sonderegger, Leo, assignor of one-half to W. Meyer, New York, N. Y. Window-cleaner. No. 1,305,948; June 3; v. 263; p. 136.
- Sonneborn, Charles, assignor to Pressed Metal Radiator Company, West Pittsburgh, Pa. Heat-radiator. No. 1,320,651; Nov. 4; v. 268; p. 54.
- Sonneborn, Charles, West Pittsburgh, Pa., assignor to Pressed Metal Radiator Company. Making radiators. No. 1,320,652; Nov. 4; v. 268; p. 55.
- Sonneborn, Charles, West Pittsburgh, Pa. Radiating-casing. Reissue. No. 14,784; Dec. 30; v. 269; p. 851.
- Sonneborn, Sol S., Brooklyn, N. Y. Sectional-pin insulator. No. 1,290,673; Jan. 7; v. 258; p. 160.
- Sonneborn, Sol S., Brooklyn, N. Y. Adjustable suspension-insulator. No. 1,291,217; Jan. 14; v. 258; p. 312.
- Sonneborn, Sol S., Brooklyn, N. Y. Universally-gradable suspension-insulator. No. 1,291,218; Jan. 14; v. 258; p. 312.
- Sonneborn, Sol S., Brooklyn, N. Y. Lightning-arrester for high-tension lines. No. 1,312,646; Aug. 12; v. 265; p. 181.
- Sonnemann, Carl, New York, N. Y. Can-opener. No. 1,309,224; July 8; v. 264; p. 252.
- Sonnemann, Carl, New York, N. Y. Multiple-slicing machine. No. 1,313,753; Aug. 19; v. 265; p. 409.
- Sonnichsen, Andreas M., assignor to Protex Manufacturing Company, Chicago, Ill. Bumper. No. 1,315,428; Sept. 9; v. 266; p. 184.
- Sonntag, Emma, Redlands, Calif. Corset. No. 1,303,512; May 13; v. 262; p. 221.
- Sonora Phonograph Corporation. (See Farb, Pincus, assignor.)
- Sonora Phonograph Corporation. (See Malocsay, Frank, assignor.)
- Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
- Sontheimer, John, Lincoln, Nebr. Screw-driver. No. 1,325,383; Dec. 16; v. 269; p. 513.
- Sooy, Ephraim C., Kansas City, Mo. Flying-machine. No. 1,304,398; May 20; v. 262; p. 424.
- Sooy, Norman H., Kansas City, Mo. Traction-engine. No. 1,325,418; Dec. 16; v. 269; p. 519.
- Sopense, Mike, Hiles, Wis. Wood-turning lathe. No. 1,314,544; Sept. 2; v. 266; p. 13.
- Sopher, Walter, and I. A. Hammond, Ainsworth, Nebr. Automatic vise and stop for work-benches. No. 1,308,922; July 8; v. 264; p. 196.
- Sopousek, Joseph, Cedar Rapids, Iowa. Combination lawn-edge trimmer. No. 1,313,866; Aug. 19; v. 265; p. 430.
- Sopwith Aviation Company, The. (See Sopwith, Thomas, assignor.)
- Sopwith, Thomas, Kingston-upon-Thames, England. Brake for aeroplanes. No. 1,293,228; Feb. 4; v. 259; p. 58.
- Sopwith, Thomas, assignor to The Sopwith Aviation Company Limited, Kingston-on-Thames, England. Device for the attachment of cables, wires, and the like upon aircraft. No. 1,299,049; Apr. 1; v. 261; p. 100.
- Söraas, Ingvar, Aalvik, Ovam, Norway. Precipitating lignin from waste sulfite liquor. No. 1,297,028; Mar. 11; v. 260; p. 310.
- Sordi, Innocente, Milan, Italy. Arrangement for the heating of rooms by means of electric thermogen. No. 1,318,237; Oct. 7; v. 267; p. 111.
- Sorel, Emile E. A., Paris, France. Bush or bearing. No. 1,300,501; Apr. 15; v. 261; p. 476.
- Sörensen, Emil, assignor to Certus Parallelometer Company, New York, N. Y. Dental parallelometer. No. 1,314,223; Aug. 26; v. 265; p. 533.
- Sorensen, Niels C., Chicago, Ill. Tonges. No. 1,301,185; Apr. 22; v. 261; p. 657.
- Sörensen, Otto K., and A. J. P. Østergaard, Copenhagen, Denmark. Package-tie. No. 1,300,502; Apr. 15; v. 261; p. 476.
- Sorenson, Henry M., and G. W. Lee, Chicago, Ill. Sign character. No. 1,314,712; Sept. 2; v. 266; p. 45.
- Sorenson, Soren G., Valley Junction, Wis. Danger-signal for railways. No. 1,323,418; Dec. 2; v. 269; p. 37.
- Sörensen, Emil, New York, N. Y., assignor to Certus Parallelometer Company, Inc. Anchor for removable bridges for teeth. No. 1,314,224; Aug. 26; v. 265; p. 533.
- Sorge, A. Jr. (See Wilsey, Irven H., assignor.)
- Sorlien, Theodore H., and O. A. Knudtson, Minneapolis, Minn. Friction counterpoised windlass-drum. No. 1,301,186; Apr. 22; v. 261; p. 657.



- Sorocinsky, Bronislaw Cosmopolis, Wash. Wire-cutter. No. 1,290,674; Jan. 7; v. 258; p. 160.
- Sorrell, Charles J., New York, N. Y. Hair-curling apparatus. No. 1,301,755; Apr. 22; v. 261; p. 767.
- Sosa, Augustus M. (See Robinson and Sosa.)
- Sosa, Augustus M. (See Schatz and Sosa.)
- Sosdian, Lorenz, New York, N. Y. Tooth-brush. No. 1,325,268; Dec. 16; v. 269; p. 492.
- Sooseman, Laban, Washington township, Keokuk county, Iowa. Hog-feeding device. No. 1,326,002; Dec. 23; v. 269; p. 645.
- Soss, Charles J., assignor of one-third to H. Soss and one-third to S. Soss, New York, N. Y. Hinge and making the same. No. 1,319,427; Oct. 21; v. 267; p. 424.
- Soss, Henry, *et al.* (See Soss, Charles J., assignor.)
- Soss, Joseph, New York, N. Y. Window-panel-supporting frame. No. 1,313,347; Aug. 19; v. 265; p. 332.
- Soss, Samuel, *et al.* (See Soss, Charles J., assignor.)
- Soterakis, Salvatore J., New York, N. Y. Coin-controlled apparatus. No. 1,315,248; Sept. 9; v. 266; p. 152.
- Sotham, John C. (See Carpmal and Sotham.)
- Sotka, John E., Eden, Wash. Stump-puller. No. 1,315,429; Sept. 9; v. 266; p. 184.
- Souchek, Louis, Holyrood, Kans. Shield for tractors. No. 1,314,225; Aug. 26; v. 265; p. 533.
- Souder, Howell W. and R. H., Tamaqua, Pa. Automatic selective temperature-controller. No. 1,316,517; Sept. 16; v. 266; p. 400.
- Souder, Robert H. (See Souder, Howell W. and R. H.)
- Soule, Arthur C., San Francisco, assignor of one-half to W. B. Thurman, Madera, Calif. Window-weatherproofing. No. 1,302,480; Apr. 29; v. 261; p. 336.
- Soule, Francis L., Welland, Ontario, Canada. Bobbin-holder. No. 1,297,029; Mar. 11; v. 260; p. 310.
- Soule, Solomon A., Frances, Wash. Fair-leader. No. 1,307,989; June 24; v. 263; p. 609.
- Soutanian, Vahé, assignor to The Blackburn Aeroplane and Motor Company, Limited, Leeds, England. Clamping device or jig. No. 1,318,814; Oct. 14; v. 267; p. 281.
- South, Augustus W., assignor to Automatic Reminder Company, Chicago, Ill. Reminder-clock. No. 1,296,438; Mar. 4; v. 260; p. 139.
- South Side Buick Sales Company. (See Faget, James E., assignor.)
- Southall, Albert W., Buffalo, N. Y. Electric welding-machine. No. 1,315,876; Sept. 9; v. 266; p. 265.
- Southcombe, James E. (See Wells and Southcombe.)
- Southcombe, James E., Birkenhead, England. Means for cooling and lubricating engines. No. 1,304,399; May 20; v. 262; p. 425.
- Southern Can Company. (See Loweree and Jackson, assignors.)
- Southern Electro-Chemical Company. (See Hechenbleikner, Ingenulin, assignor.)
- Southern, John W., Vancouver, British Columbia, Canada. Gasket for hose-couplings. No. 1,295,228; Feb. 25; v. 259; p. 613.
- Southern, John W., Vancouver, British Columbia, Canada. Toy. No. 1,320,581; Nov. 4; v. 268; p. 42.
- Southern Spring Bed Company. (See Schwab, Robert W., assignor.)
- Southgate, George T., Brooklyn, N. Y. Resistance material. No. 1,297,744; Mar. 18; v. 260; p. 493.
- Southgate, George T., Brooklyn, N. Y. High-potential switch. No. 1,310,585; July 22; v. 264; p. 571.
- Southgate, George T., Brooklyn, N. Y. Insulator-support thimble. No. 1,315,998; Sept. 16; v. 266; p. 302.
- Southgate, Louis W., Worcester, Mass., assignor to Standard Pneumatic Action Co., New York, N. Y. Roll-shifting mechanism for automatic musical instruments. No. 1,307,424; June 24; v. 263; p. 505.
- Southmayd, Charles G., Aurora, Ontario, Canada. Cigarette-maker. No. 1,299,050; Apr. 1; v. 261; p. 100.
- Southwark Foundry & Machine Co. (See Hutchinson, Morton C., assignor.)
- Southwest Cotton Company. (See Coldwell, Charles E., assignor.)
- Southwestern Engineering Company. (See Kraut and Kollberg, assignors.)
- Southworth, Dewitt C., and F. I. Hardy, South Bend, Ind. Fishing-reel. No. 1,296,871; Mar. 11; v. 260; p. 274.
- Sovereign, George E., Plainfield, N. J. Grinding-mill. No. 1,300,503; Apr. 15; v. 261; p. 476.
- Sovereign, Harry E. (See Stitzer and Sovereign.)
- Sovick, John, Clairton, Pa. Rail-joint. No. 1,301,615; Apr. 22; v. 261; p. 739.
- Sowa, John, Kansas City, Kans. Curtain-holder. No. 1,311,359; July 29; v. 264; p. 747.
- Sowden, Charles N., Central Caracas, Cuba. Vacuum-pump. No. 1,298,111; Mar. 25; v. 260; p. 595.
- Sowden, Charles N., Central Caracas, Cuba. Vacuum-pump. No. 1,298,112; Mar. 25; v. 260; p. 595.
- Sowden, Charles N., Caracas, Cuba. Density-meter. No. 1,298,810; Apr. 1; v. 261; p. 45.
- Sowell, Ernest E. (See Onstott, Jacob T., assignor.)
- Sowell, Ernest E. (See Sowell, John A. and E. E.)
- Sowell, John A. and E. E., Sacramento, Calif. Retaining screw-clamp. No. 1,299,253; Apr. 1; v. 261; p. 145.
- Sowerby, Arthur L., Baconsthorpe, Holt, England. Fountain-pen. No. 1,306,304; June 10; v. 263; p. 251.
- Sowerby, Thomas, Vancouver, British Columbia, Canada. Disinfecting device. No. 1,322,838; Nov. 25; v. 268; p. 632.
- Sowers, George S., Spring Hill, Kans. Grain-rack. No. 1,319,729; Oct. 28; v. 267; p. 504.
- Sowers, George S., Spring Hill, Kans. Combined grain, stock, and plain rack with stock-chute. No. 1,322,068; Nov. 18; v. 268; p. 436.
- Sowle, Herbert R., Everett, Mass. Divan-bed. No. 1,295,935; Mar. 4; v. 260; p. 26.
- Soyez, Philippe C., Paris, France. Non-intoxicating beverage. No. 1,291,219; Jan. 14; v. 258; p. 312.
- Spafford Tool Works, The. (See Hagstrom, Albert G., assignor.)
- Spahr, George W., Chicago, Ill. Muzzle. No. 1,297,301; Mar. 11; v. 260; p. 370.
- Spahr, Otto, Philadelphia, Pa. Bowl-scraper. No. 1,325,540; Dec. 23; v. 269; p. 560.
- Spain, Harry, Elmira Heights, N. Y. Inkwell. No. 1,316,116; Sept. 16; v. 266; p. 323.
- Spain, Richard D. (See Hubschmitt and Spain.)
- Spain, William. (See Jefferies and Spain.)
- Spamer, Richard F., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Indicating system. No. 1,294,555; Feb. 18; v. 259; p. 435.
- Spang, Harold H., Leechburg, Pa. Sheet-metal-cutting machine. No. 1,314,286; Aug. 26; v. 265; p. 545.
- Spangler, Franklin P., Indianapolis, Ind. Oil-burner. No. 1,296,708; Mar. 11; v. 260; p. 236.
- Spangler, James C. (See Lewis, Lewis C., assignor.)
- Spangler, John B., Bismarck, N. D. Socket-wrench and bolt-holder device. No. 1,299,631; Apr. 8; v. 261; p. 259.
- Spangler, Ludwig, Vienna, Austria. Double-decked vehicle. No. 1,300,201; Apr. 8; v. 261; p. 385.
- Spanier, Waldemar H., Devils Lake, N. D. Combined plumb, level, and mitering device. No. 1,317,052; Sept. 23; v. 266; p. 548.
- Spanner, Edward F. (See Silley and Spanner.)
- Sparboom, Walter P., Rochester, N. Y. Signaling system. No. 1,309,821; July 15; v. 264; p. 400.
- Spargo, Benjamin H. M., Hawksburn, Melbourne, Victoria, Australia. Alarm. No. 1,311,424; July 29; v. 264; p. 760.
- Sparring, August, Helena, Mont. Sawing attachment. No. 1,323,923; Dec. 2; v. 269; p. 132.
- Sparkes, John G., Birmingham, Ala. Drawing apparatus. No. 1,306,861; June 17; v. 263; p. 369.
- Sparks, Jonas A., and C. E. and W. M. Clark, Elk City, Kans. Driving mechanism for drying and aerating machines. No. 1,304,400; May 20; v. 262; p. 425.
- Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company. Signal. No. 1,312,060; Aug. 5; v. 265; p. 39.
- Sparks-Withington Company, The. (See Sparks, William, assignor.)
- Sparring, Jacob L., assignor of one-half to A. Schepper, Bay City, Mich. Shaft-hanger. No. 1,304,401; May 20; v. 262; p. 425.
- Sparre, Fin, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Pyroxylin composition. No. 1,301,187; Apr. 22; v. 261; p. 637.
- Sparrow, Alfred J., assignor of one-half to A. E. Babbirk, Woodstock, New Brunswick, Canada. Reversible turbine. No. 1,300,889; Apr. 15; v. 261; p. 558.
- Spatt, Tony. (See Chamness, Frank, assignor.)
- Spaulding, Clarence W., Muskegon Heights, Mich. Miter-box. No. 1,301,519; Apr. 22; v. 261; p. 721.
- Spaulding, Elijah F., Brooklyn, assignor to A. Ward, New York, N. Y. Vending-machine. No. 1,320,504; Nov. 4; v. 268; p. 27.
- Spaulding, Elijah F., Brooklyn, assignor to A. Ward, New York, N. Y. Vending-machine. No. 1,320,505; Nov. 4; v. 268; p. 28.
- Spaulding, Franklin, assignor of one-half to G. W. Christopher, Chicago, Ill. Moving-picture-projection machine. No. 1,321,255; Nov. 11; v. 268; p. 233.
- Spaulding, George T., Cambridge, N. Y. Identification-tag. No. 1,312,215; Aug. 5; v. 265; p. 68.
- Spaulding, John W., Seattle, Wash. Laundry machinery. No. 1,304,712; May 27; v. 262; p. 523.
- Spaulding, Philip H., Hinsdale, Ill. End-gate fastener. No. 1,312,279; Aug. 5; v. 265; p. 79.
- Spaulding, Roy H., Battle Creek, Mich. Runner attachment for baby-carriages. No. 1,307,275; June 17; v. 263; p. 444.
- Spaul, George T., Randwick, near Sydney, New South Wales, Australia. Device for teaching writing. No. 1,324,182; Dec. 9; v. 269; p. 225.
- Spaven, Frank, Winnipeg, Manitoba, Canada. Motor-tractor. No. 1,292,116; Jan. 21; v. 258; p. 560.
- Spaw, Abel F., Los Angeles, Calif. Apparatus for drying alimentary and other substances. No. 1,318,931; Oct. 14; v. 267; p. 304.
- Speakman, John A. (See Mouser and Speakman.)
- Speaks, Perry E., Harrisburg, Pa. Combined cooker and service device. No. 1,300,504; Apr. 15; v. 261; p. 476.
- Spear, Furman D., assignor to Armspear Manufacturing Co., New York, N. Y. Signal-lamp. No. 1,314,097; Aug. 26; v. 265; p. 508.



## Alphabetical list of patentees—Continued.

- Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Lamp. No. 1,320,346; Oct. 28; v. 267; p. 619.
- Spear, George A., Medford, assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Sheet material for innersoles. No. 1,312,758; Aug. 12; v. 265; p. 202.
- Spear, John R., Winnipeg, Manitoba, and J. M. Beattie, Calgary, Alberta, Canada. Building-clip. No. 1,308,265; July 1; v. 264; p. 47.
- Spear, Lawrence Y., and G. C. Davison, New London, Conn. Fixed ammunition for non-recoil guns. No. 1,311,021; July 22; v. 264; p. 651.
- Spear, Lawrence Y., Groton, Conn., assignor to Electric Boat Company, New York, N. Y. Submarine boat. No. 1,315,533; Sept. 9; v. 266; p. 203.
- Specht, Harry M., New York, N. Y. Apparatus for making filament from viscid or viscous substances. No. 1,310,509; July 22; v. 264; p. 557.
- Speck, Herman H., Cincinnati, Ohio. Camera. No. 1,326,699; Dec. 30; v. 269; p. 812.
- Speckerman, Ernest O., (now by judicial change of name E. O. Fredericks), assignor to E. Fredericks, Inc., New York, N. Y. Hair-waving means and producing same. No. 1,313,232; Aug. 12; v. 265; p. 295.
- Speed, James B., assignor to Western Electric Company, Incorporated, New York, N. Y. Conductor. No. 1,292,659; Jan. 28; v. 258; p. 711.
- Speed Key Mfg. Company. (See Hill, Iver G., assignor.)
- Speed Key Manufacturing Company. (See Jansen, Charles H., assignor.)
- Speelman, George A., Wayne, Nebr. Manure-loader. No. 1,293,229; Feb. 4; v. 259; p. 58.
- Speer, Alexander S. (See Spigel, Alexander S.)
- Speer, Alexander S., Chicago, Ill. Roofing-slab. No. 1,318,238; Oct. 7; v. 267; p. 112.
- Speer Carbon Company. (See Edgcomb, Henry R., assignor.)
- Speer, James R., Trappe, Md. Making iron alloys. No. 1,291,220; Jan. 14; v. 258; p. 312.
- Speer, James R., Trappe, Md. Carbon-chrome-nickel steel. No. 1,314,022; Aug. 26; v. 265; p. 494.
- Speer, Victor. (See Litchfield and Speer.)
- Spees, Charles P., San Francisco, Calif. Check-perforator. No. 1,303,124; May 6; v. 262; p. 123.
- Speicher, Paul J., Gaston, assignor to The Cyclone Manufacturing Company, Urbana, Ind. Coop. No. 1,303,736; May 13; v. 262; p. 262.
- Speidel, Charles F., assignor to Eastman Kodak Company, Rochester, N. Y. Camera-back. No. 1,319,910; Oct. 28; v. 267; p. 538.
- Speidel, Eugen, Pforzheim, Germany, assignor, by mesne assignments, to General Chain Company, Providence, R. I. Soldering chain-links. No. 1,308,741; July 1; v. 264; p. 135.
- Speirs, Charles A., The Dargle, Natal, South Africa. Screw-extractor. No. 1,310,510; July 22; v. 264; p. 557.
- Speiser, Carl, Gelterkinden, near Basel, Switzerland. Loom for weaving. No. 1,316,810; Sept. 23; v. 266; p. 503.
- Speiser, Carl, Gelterkinden, near Basel, Switzerland. Loom. No. 1,317,737; Oct. 7; v. 267; p. 14.
- Spellman, Edward, Louisville, Ky. Measuring instrument. No. 1,295,936; Mar. 4; v. 260; p. 26.
- Spellman, Roy A., St. Joseph, Mich. Lamp-shade. No. 1,309,263; July 8; v. 264; p. 259.
- Spellman, Thomas W., assignor of one-half to F. A. Nelson, Worcester, Mass. Adjustable pattern. No. 1,291,221; Jan. 14; v. 258; p. 312.
- Spelman, James, Montreal, Quebec, Canada. Concrete substructure-calsson. No. 1,294,556; Feb. 18; v. 259; p. 435.
- Spence, Charles L., Sturgis, Mich. Manifolding or duplicating paper. No. 1,306,785; June 17; v. 263; p. 355.
- Spence, Glendon, Newport, R. I. Safety railway appliance. No. 1,325,419; Dec. 16; v. 269; p. 519.
- Spence, John C., Worcester, Mass., assignor to Norton Company. Abrasive-wheel centering and balancing device. No. 1,305,978; June 3; v. 263; p. 142.
- Spencer, Arthur C., Washington, D. C., assignor of one-third to A. Cox, New York, N. Y. Manufacture of potash and cement. No. 1,312,592; Aug. 12; v. 265; p. 170.
- Spencer, Carroll B., et al. (See Simpson, Norman R., assignor.)
- Spencer, Charles E. (See Spencer, Robert C., Jr., assignor.)
- Spencer, Charles E., Chicago, and R. C. Spencer, Jr., River Forest, Ill. Casement-window adjuster. No. 1,314,023; Aug. 26; v. 265; p. 494.
- Spencer, Charles H., assignor to H. S. Dulaney, Baltimore, Md. Player-piano pneumatic. No. 1,298,113; Mar. 25; v. 260; p. 595.
- Spencer, Charles H., assignor to H. S. Dulaney, Baltimore, Md. Piano-player. No. 1,324,700; Dec. 9; v. 269; p. 324.
- Spencer, Charles H., assignor to H. S. Dulaney, Baltimore, Md. Piano-player. No. 1,324,701; Dec. 9; v. 269; p. 324.
- Spencer Elevator Co. (See Day, Wallace E., assignor.)
- Spencer, Frank J., and W. J. Kelly, assignors to Gimson Co. (Leicester), Limited, Leicester, England. Motor-driven machine for the manufacture of boots and shoes. No. 1,308,305; July 1; v. 264; p. 55.
- Spencer, George F. (See Spencer, William H., assignor.)
- Spencer, George H., Chicago, Ill. Appliance for handling timber, &c. No. 1,297,745; Mar. 18; v. 260; p. 493.
- Spencer, Harry E., New York, N. Y., assignor to E. M. Culp, Paterson, N. J. Sheet-metal pump-base. No. 1,290,796; Jan. 7; v. 258; p. 188.
- Spencer, Henry W., London, England. Feed-water regulator for steam-boilers. No. 1,312,583; Aug. 12; v. 265; p. 169.
- Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Reservoir and controlling-valve for organs. No. 1,296,872; Mar. 11; v. 260; p. 274.
- Spencer, Ira H., West Hartford, Conn., assignor, by mesne assignments, to The Spencer Turbine Company. Pressure-cage. No. 1,301,983; Apr. 29; v. 261; p. 842.
- Spencer, Ira H., West Hartford, Conn., assignor, by mesne assignments, to The Spencer Turbine Company. Rubber-working machine. No. 1,326,375; Dec. 30; v. 269; p. 751.
- Spencer, James B., assignor to United States Hoffman Machinery Company, Syracuse, N. Y. Machine for pressing garments. No. 1,291,222; Jan. 14; v. 258; p. 313.
- Spencer, Jesse F., Toppenish, Wash. Dirigible headlight. No. 1,312,812; Aug. 12; v. 265; p. 213.
- Spencer, John A., Long Beach, Calif. Aeroplane. No. 1,303,737; May 13; v. 262; p. 262.
- Spencer, John E., and A. C. Lillie, Los Angeles, Calif., assignors to William R. Johnston Manufacturing Company, Chicago, Ill. Automobile-window construction. No. 1,298,593; Mar. 25; v. 260; p. 698.
- Spencer, John N., Truro, Nova Scotia, Canada. Rotary engine. No. 1,300,666; Apr. 15; v. 261; p. 510.
- Spencer, Josephine M., Florence, Nebr. Doll. No. 1,307,218; June 17; v. 263; p. 434.
- Spencer Kellogg & Sons. (See Schwarzman, Alexander, assignor.)
- Spencer, Lewis L., assignor of one-third to C. A. Earl and one-third to W. M. Claus, Plankinton, S. D. Vehicle-dumping mechanism. No. 1,299,516; Apr. 8; v. 261; p. 232.
- Spencer, Niles F., Vallejo, Calif. Couch-leg fastener. No. 1,325,917; Dec. 23; v. 269; p. 629.
- Spencer, Ora, Logan, Ohio. Switch-operating mechanism. No. 1,312,813; Aug. 12; v. 265; p. 213.
- Spencer, Thomas, Philadelphia, Pa., assignor, by mesne assignments, to National Carbon Company, Inc. Apparatus for pasting storage-battery grids. No. 1,292,117; Jan. 21; v. 258; p. 560.
- Spencer, Thomas, Philadelphia, Pa., assignor, by mesne assignments, to National Carbon Company, Inc. Storage battery. No. 1,303,513; May 13; v. 262; p. 222.
- Spencer, Thomas, Philadelphia, Pa., assignor, by mesne assignments, to National Carbon Company, Inc. Cleveland. Vent for storage batteries. No. 1,325,866; Dec. 23; v. 269; p. 620.
- Spencer, Thomas H., trustee. (See Bloodgood, James H., assignor.)
- Spencer Turbine Cleaner Company, The. (See Spencer, Ira H., assignor.)
- Spencer Turbine Company, The. (See Spencer, Ira H., assignor.)
- Spencer, Vernon, Mosman, near Sydney, New South Wales, Australia. Artificial tooth. No. 1,317,832; Oct. 7; v. 267; p. 33.
- Spencer, William H., assignor to G. F. Spencer, New York, N. Y. Illuminating-fixture. No. 1,309,784; July 15; v. 264; p. 394.
- Spencer, William H., assignor to G. F. Spencer, New York, N. Y. Lamp. No. 1,319,186; Oct. 21; v. 267; p. 378.
- Spengler-Loomis Manufacturing Company. (See Cor-Charles S., assignor.)
- Sperakas, John N., assignor of one-half to J. L. Black, Hamilton, Ohio. Device for polishing shoes. No. 1,307,276; June 17; v. 263; p. 445.
- Sperlich, Herman A., Highland Park, assignor to Crystal Washing Machine Company, Detroit, Mich. Gearing for washing-machines. No. 1,313,423; Aug. 19; v. 265; p. 347.
- Sperling, Louis. (See Van Osdal, William J., assignor.)
- Sperling, Oscar, assignor to Rotary Scraper Company Inc., New York, N. Y. Attachment for flexible shafts. No. 1,320,582; Nov. 4; v. 268; p. 42.
- Spero, Samuel, assignor of one-half to B. Kronthal, Michigan City, Ind. Garment. No. 1,292,118; Jan. 21; v. 258; p. 561.
- Sperr, Frederick W., Jr., Oakmont, assignor to H. Koppers Company, Pittsburgh, Pa. Distillation-tube. No. 1,303,980; May 20; v. 262; p. 346.
- Sperr, Frederick W., Jr., assignor to H. Koppers Company, Pittsburgh, Pa. Manufacture of ammonium sulfate. No. 1,310,306; July 15; v. 264; p. 489.
- Sperr, Frederick W., Jr., Oakmont, and M. Darrin, Wilkinsburg, assignors to H. Koppers Company, Pittsburgh, Pa. Paint or varnish and making the same. No. 1,292,907; Jan. 28; v. 258; p. 770.



- Sperr, Frederick W., Jr., Oakmont, and M. Darrin, Wilkinsburg, assignors to H. Koppers Company, Pittsburgh, Pa. Paint or varnish and making the same. No. 1,292,908; Jan. 28; v. 258; p. 770.
- Sperr, Frederick W., Jr., Pittsburgh, and M. Darrin, Wilkinsburg, assignors to The Koppers Company, Pittsburgh, Pa. Apparatus for polymerizing liquids by means of heat and pressure. No. 1,314,613; Sept. 2; v. 266; p. 26.
- Sperr, Frederick W., Jr., Oakmont, Pa., and A. A. Kohr, Newark, N. J., assignors to The Koppers Company, Pittsburgh, Pa. Apparatus for determining soluble-gas constituents. No. 1,316,602; Sept. 23; v. 266; p. 464.
- Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. No. 1,294,557; Feb. 18; v. 259; p. 435.
- Sperry, Arthur B., assignor to Automatic Electric Company, Chicago, Ill. Telephone-exchange system. No. 1,295,229; Feb. 25; v. 259; p. 613.
- Sperry, Elmer A. (See Harrington, Ralph M., assignor.)
- Sperry, Elmer A., Brooklyn, N. Y. Electric-arc light. No. 1,302,488; Apr. 29; v. 261; p. 937.
- Sperry, Elmer A., Brooklyn, N. Y. Multiple-expansion internal-combustion engine. No. 1,325,810; Dec. 23; v. 269; p. 610.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Multiple-turret target-indicator. No. 1,296,439; Mar. 4; v. 260; p. 139.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Repeater system for gyro-compasses. No. 1,296,440; Mar. 4; v. 260; p. 139.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Navigational instrument. No. 1,300,890; Apr. 15; v. 261; p. 558.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Electric drive for gyroscopes. No. 1,301,014; Apr. 15; v. 261; p. 585.
- Sperry, Elmer A., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Stabilizing-gyroscope. No. 1,312,085; Aug. 5; v. 265; p. 44.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Gyroscope Company. Electrical and gyroscopic apparatus for torpedoes. No. 1,314,157; Aug. 26; v. 265; p. 519.
- Sperry, Elmer A., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Rotor for gyroscopic stabilizers. No. 1,318,302; Oct. 7; v. 267; p. 123.
- Sperry, Elmer A., Brooklyn, N. Y. Searchlight ventilation. No. 1,318,701; Oct. 14; v. 267; p. 260.
- Sperry, Elmer A., Brooklyn, N. Y. Electric battery. No. 1,321,947; Nov. 18; v. 268; p. 414.
- Sperry, Elmer A., and E. Meitner, assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Torpedo-gyroscope. No. 1,312,084; Aug. 5; v. 265; p. 44.
- Sperry, Frank E., Batavia, Ill. Bearing-surface. No. 1,307,564; June 24; v. 263; p. 531.
- Sperry Gyroscope Company, The. (See Ford, Hannibal C., assignor.)
- Sperry Gyroscope Company, The. (See Herman, Raymond L., assignor.)
- Sperry Gyroscope Company, The. (See McDowell and Israel, assignors.)
- Sperry Gyroscope Company. (See Meitner, Elemer, assignor.)
- Sperry Gyroscope Company, The. (See Minorsky, Nicolai, assignor.)
- Sperry Gyroscope Company, The. (See Sperry, Elmer A., assignor.)
- Sperry Gyroscope Company, The. (See Sperry, Lawrence B., assignor.)
- Sperry Gyroscope Company, The. (See Sperry and Meitner, assignors.)
- Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
- Sperry Gyroscope Company, The. (See Tanner and Thompson, assignors.)
- Sperry Gyroscope Company, The. (See Titterington, Morris M., assignor.)
- Sperry, Herbert B., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Pitman connection. No. 1,312,280; Aug. 5; v. 265; p. 79.
- Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Double-gyro inclinometer. No. 1,309,489; July 8; v. 264; p. 302.
- Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Mechanical pilot for aeroplanes. No. 1,324,134; Dec. 9; v. 269; p. 216.
- Sperry, Leonard B., Berwyn, Ill., assignor, by mesne assignments, to International Harvester Company. Internal-combustion engine. No. 1,322,640; Nov. 25; v. 268; p. 596.
- Sperry, Theodore A., and C. R. Umbenbower, Indianapolis, Ind. Concrete-block machine. No. 1,307,796; June 24; v. 263; p. 573.
- Sperry, Charles F., assignor to Hooven Radiator Co., Chicago, Ill. Clamping-frame for radiator-cores. No. 1,301,793; Apr. 22; v. 261; p. 776.
- Sperry, Charles F., assignor to Hooven Radiator Co., Chicago, Ill. Die for making core-unit members for radiators. No. 1,302,870; May 6; v. 262; p. 75.
- Sperry, Charles F., assignor to Hooven Radiator Company, Chicago, Ill. Lock-seaming machine. No. 1,318,415; Oct. 14; v. 267; p. 205.
- Sperry, Charles F., Chicago, Ill. Machine for making fins for radiator-tubes and automatically applying them to said tubes. No. 1,322,866; Nov. 18; v. 268; p. 492.
- Sperry, Charles F. and P. F., Chicago, Ill. Radiator for automobiles, motor-trucks, and similar vehicles. No. 1,301,984; Apr. 29; v. 261; p. 842.
- Sperry, Joseph H., Chicago, Ill. Dipping-tank for radiator-cores. No. 1,292,909; Jan. 28; v. 258; p. 770.
- Sperry, Philmore F. (See Sperry, Charles F. and P. F.)
- Sperry, Philmore F., Chicago, Ill. Radiator for motor-vehicles and the like. No. 1,315,249; Sept. 9; v. 266; p. 152.
- Sperry, Philmore F., Chicago, Ill. Radiator for motor-vehicles and the like. No. 1,316,199; Sept. 16; v. 266; p. 339.
- Sperry, Philmore F., Chicago, Ill. Radiator for motor-driven vehicles. No. 1,316,858; Sept. 23; v. 266; p. 511.
- Sperry, Philmore F., Chicago, Ill. Radiator for motor-driven vehicles. No. 1,325,215; Dec. 16; v. 269; p. 482.
- Speth, Charlie, Palmyra, Neb. Road-grading machine. No. 1,324,526; Dec. 9; v. 269; p. 292.
- Speyer, Herbert E., Knoxville, Tenn., assignor to Economy Rail Company. Railway-track. No. 1,314,024; Aug. 26; v. 265; p. 494.
- Spice, Alfred, Jersey City, N. J. Disposition of inflammable gases. No. 1,302,871; May 6; v. 262; p. 75.
- Spicer, Charles W., Washington, D. C. Cleaning-tank. No. 1,292,407; Jan. 21; v. 258; p. 628.
- Spicer Mfg. Corporation. (See Bennett, Paul G., assignor.)
- Spiegel, Alexander S., Chicago, Ill. Means for holding rolls of material. No. 1,298,811; Apr. 1; v. 261; p. 46.
- Spiegel, Alexander S., Chicago, Ill. Apparatus for making prepared roofing. No. 1,301,332; Apr. 22; v. 261; p. 687.
- Spiegel, Alexander S., Chicago, Ill. Roofing. No. 1,317,182; Sept. 30; v. 266; p. 608.
- Spiegel, Alexander S., (now by judicial change of name A. S. Speer), Chicago, Ill. Vehicle-wheel. No. 1,319,911; Oct. 28; v. 267; p. 539.
- Spiegel, Joseph F., Toronto, Ontario, Canada. Steam-generating plant. No. 1,308,122; July 1; v. 264; p. 21.
- Spiegel, Julius, New York, N. Y. Bookkeeping-form. No. 1,291,223; Jan. 14; v. 258; p. 313.
- Spielberger, Abe R., Atlanta, Ga. Fountain-comb. No. 1,314,158; Aug. 26; v. 265; p. 519.
- Spies, George A., Lowell, Ohio. Library-table. No. 1,326,799; Dec. 30; v. 269; p. 832.
- Spies, Peter, Cleveland, Ohio. Draining attachment for the dashboards of motor-vehicles. No. 1,297,030; Mar. 11; v. 260; p. 310.
- Spieß, Georg, Leipzig, Germany. Device for exact registration of sheets of paper, pasteboard, and the like. No. 1,290,390; Jan. 7; v. 258; p. 90.
- Spieß, Georg, Leipzig-Reudnitz, Germany. Device for gathering sheets to form periodicals and the like. No. 1,294,842; Feb. 18; v. 259; p. 502.
- Spieß, Jules G. (See Kuhn, Hand, and Spiess.)
- Spillane, John J., assignor of one-half to Columbia River Shipbuilding Corporation, Portland, Oreg. Process and apparatus for hanging heavy metal plates. No. 1,322,147; Nov. 18; v. 268; p. 451.
- Spillman, Albert, North Tonawanda, N. Y. Antibacklash-gear. No. 1,317,232; Sept. 30; v. 266; p. 618.
- Spillman, Albert, North Tonawanda, N. Y. Engine-piston. No. 1,325,176; Dec. 16; v. 269; p. 475.
- Spin, Nicholas, Auburn, N. Y. Wheel. No. 1,313,348; Aug. 19; v. 265; p. 333.
- Spindler, Charles, San Francisco, Calif. Method of and apparatus for determining the purity of carbonic-acid gas. No. 1,303,514; May 13; v. 262; p. 222.
- Spindler, Edward G., St. Louis, Mo. Gage. No. 1,321,567; Nov. 11; v. 268; p. 292.
- Spindler, Ferdinand G., assignor to E. Leitz, Inc., New York, N. Y. Hamacytometer. No. 1,313,962; Aug. 26; v. 265; p. 483.
- Spinello, Mathew, assignor to H. Clements, Kansas City, Mo. Permutation-lock. No. 1,299,517; Apr. 8; v. 261; p. 233.
- Spingarn, Edward, Brooklyn, N. Y. Negligée collar. No. 1,294,843; Feb. 18; v. 259; p. 502.
- Spink, Perl M., Worthington, Minn. Electric heater and cooker. No. 1,293,964; Feb. 11; v. 259; p. 261.
- Spinney, Burton A., Des Moines, Iowa. Pneumatic insole. No. 1,304,915; May 27; v. 262; p. 560.
- Spire, William H., Cleveland, Ohio. Combined oil and gas burner. No. 1,304,402; May 20; v. 262; p. 425.
- Spirek, David, Fort Dodge, Iowa. Device for turning eggs. No. 1,308,686; July 1; v. 264; p. 124.
- Spirella Company, The. (See Kitchen, John F., assignor.)
- Spiro, Charles, assignor to Gourland Typewriter Corporation, New York, N. Y. Paper-feeding mechanism. No. 1,319,428; Oct. 21; v. 267; p. 424.
- Spiro, Charles, assignor to Gourland Typewriter Corporation, New York, N. Y. Ribbon-spool. No. 1,319,429; Oct. 21; v. 267; p. 424.



## Alphabetical list of patents—Continued.

- Spiro, Charles, assignor to Gourland Typewriter Corporation, New York, N. Y. Paper-table. No. 1,319,430; Oct. 21; v. 267; p. 424.
- Spiro, Charles, assignor to Gourland Typewriter Corporation, New York, N. Y. Platen-shift lock. No. 1,319,807; Oct. 28; v. 267; p. 518.
- Spiro, Charles, assignor to Gourland Typewriter Corporation, New York, N. Y. Line-space mechanism. No. 1,319,808; Oct. 28; v. 267; p. 519.
- Spiro, Walter J., White Plains, N. Y. Engine-starter. No. 1,322,069; Nov. 18; v. 268; p. 436.
- Spiro, Solon, *et al.* (See Dickerson, Arthur, assignor.)
- Spitzer, Elmer T., Pueblo, Colo. Music-leaf turner. No. 1,320,506; Nov. 4; v. 268; p. 28.
- Spitz, Herman, Nashville, Tenn. Steam-sterilizer. No. 1,305,499; June 3; v. 263; p. 51.
- Spitzer, Oscar, New York, N. Y., and C. C. Conover, Springfield, Ill. Treatment of zinc-retort residues. No. 1,315,349; Sept. 9; v. 266; p. 170.
- Spitzglass, Jacob M., assignor to Republic Flow Meters Company, Chicago, Ill. Flow-meter. No. 1,325,763; Dec. 23; v. 269; p. 600.
- Spitzner, Felix. (See Bretscher, Hans, assignor.)
- Spitzner, Felix. (See Bretscher, Hans, assignor.) (Re-issue.)
- Spivey, Geo. L. (See Davis, Luther L., assignor.)
- Splayford, Charles A. (See Mellis and Splayford.)
- Splitdorf Electrical Company. (See Borger, Henry E., assignor.)
- Splitdorf Electrical Company. (See Brown, William J., assignor.)
- Splitdorf Electrical Company. (See De Lorme, Alfred C., assignor.)
- Splitdorf Electrical Company. (See Dean, William W., assignor.)
- Splitdorf Electrical Company. (See Erickson, Albert, assignor.)
- Splitdorf Electrical Company. (See Galantin, Ignatius P., assignor.)
- Splitdorf Electrical Company. (See Hermann, Joseph W., assignor.)
- Splitdorf Electrical Company. (See Hodges, Edward R., assignor.)
- Splitdorf Electrical Company. (See Lang, George L., assignor.)
- Splitdorf Electrical Company. (See Martin, John S., assignor.)
- Splitdorf Electrical Company. (See Mason, Charles T., assignor.)
- Splitdorf Electrical Company. (See McKeown, Samuel C., assignor.)
- Splitdorf Electric Company. (See Nowosielski, Edward B., assignor.)
- Splitdorf Electrical Company. (See Ratcliff, William H., assignor.)
- Splitdorf Electrical Company. (See Richards, Julius H., assignor.)
- Splitdorf Electrical Company. (See Sullivan, Maurice P., assignor.)
- Splitdorf Electrical Company. (See Tiedemann, Henry, assignor.)
- Splitdorf Electrical Company. (See Tomlinson, Edward J., assignor.)
- Splitdorf Electrical Company. (See Tomlinson and McKeown, assignors.)
- Splitdorf Electrical Company. (See Van Deventer, Harry R., assignor.)
- Splitdorf Electrical Company. (See Werner, Leo J., assignor.)
- Splitdorf Electrical Company. (See Zimmerman, James G., assignor.)
- Spoelstra, Watze, Leeuwarden, Netherlands. Apparatus for drying vegetables and the like. No. 1,324,527; Dec. 9; v. 269; p. 292.
- Spohr, Frank S., assignor to Barbee Wire & Iron Works, La Fayette, Ind. Collapsible rack for bottles and jars. No. 1,326,003; Dec. 23; v. 269; p. 645.
- Spohrer, Gregory J., East Orange, N. J., assignor to The Motor-Compressor Company, Aeroplane. No. 1,306,084; June 10; v. 263; p. 191.
- Spohrer, Gregory J., East Orange, assignor of one-half to C. E. Van Vleck, Montclair, N. J. Internal-combustion engine. No. 1,308,123; July 1; v. 264; p. 22.
- Spokane Concrete Flower Pot Machine Co. (See Bewley, Claude G., assignor.)
- Spoljar, John, Detroit, Mich. Window-sash. No. 1,316,065; Sept. 16; v. 266; p. 314.
- Sporup, Andrew, Eureka, Calif. Automatically-adjustable wrench. No. 1,305,571; June 3; v. 263; p. 65.
- Spott, Matthew S., Scranton, and T. Jeffrey, Dunmore, Pa. Auto-wheel. No. 1,307,277; June 17; v. 263; p. 445.
- Sprague Canning Machinery Company. (See Steere, Clarence E., assignor.)
- Sprague, Edward H. (See Porter and Sprague.)
- Sprague, Frank J., Sharon, Conn., assignor to Sprague Safety Control and Signal Corporation. Recorder. No. 1,322,148; Nov. 18; v. 268; p. 451.
- Sprague, Henry H., assignor to Sprague Meter Company, Bridgeport, Conn. Gas-meter. No. 1,293,965; Feb. 11; v. 259; p. 261.
- Sprague Meter Company. (See Sprague, Henry H., assignor.)
- Sprague Safety Control and Signal Corporation. (See Sprague, Frank J., assignor.)
- Sprague, Theodore A., Pittsburgh, Pa. Cushion-tire. No. 1,299,051; Apr. 1; v. 261; p. 100.
- Spranger, Anthony J., Detroit, Mich. Demountable wheel. No. 1,304,112; May 20; v. 262; p. 369.
- Spranger, Frank, assignor to Spranger Wire Wheel Company, Detroit, Mich. Hub construction. No. 1,306,503; June 10; v. 263; p. 271.
- Spranger Wire Wheel Company. (See Spranger, Frank, assignor.)
- Sprangers, Maximilian C., Rochester, N. Y. Circuit-closer for tank-indicators. No. 1,323,113; Nov. 25; v. 268; p. 684.
- Spray Engineering Company. (See Davis, Harry O., assignor.)
- Spray Engineering Company. (See Day, Herbert W., assignor.)
- Spray Engineering Company. (See Parker, Lee H., assignor.)
- Spreckels, John D., Jr., and R. Laborda, San Francisco, Calif. Sugar packing and boxing machine. No. 1,308,266; July 1; v. 264; p. 47.
- Sprengel, Gustav, Wheaton, Ill. Flycatcher. No. 1,297,267; Mar. 11; v. 260; p. 361.
- Sprenger, Alfred W., and O. A. Bremer, Burlington, Iowa. Connecting-rod-babbitting device. No. 1,294,558; Feb. 18; v. 259; p. 435.
- Sprengnether, William F., St. Louis, Mo. Spark-plug. No. 1,310,847; July 22; v. 264; p. 620.
- Spring Hub Automobile Wheel Corporation. (See Westermann, Carl F., assignor.)
- Spring Snap Fastener Company. (See Stenman, Elis F., assignor.)
- Spring Stopper Company. (See Brown, Harry M., assignor.)
- Springborn, Richard, Cleveland, Ohio. Valve-operating mechanism. No. 1,300,785; Apr. 15; v. 261; p. 536.
- Springer, Aaron M., Portland, Oreg., assignor to Oregon Woodware Manufacturing Company. Ironing-board. No. 1,292,910; Jan. 28; v. 258; p. 770.
- Springer, John E., Norfolk, Va. Railway-tie and rail-clamp. No. 1,321,256; Nov. 11; v. 268; p. 233.
- Springer, Lee, Hardin, Mont. Combination-tool. No. 1,293,966; Feb. 11; v. 259; p. 261.
- Springer, Philip S. (See Raul and Springer.)
- Springer, William N., assignor to Avery Company, Peoria, Ill. Gang-plow. No. 1,312,281; Aug. 5; v. 265; p. 79.
- Springer, Wilson R., Oskaloosa, Iowa. Spring-steel band. (Reissue.) No. 14,762; Nov. 25; v. 268; p. 710.
- Springfield Experimental and Manufacturing Company. (See Lalonde, Moses, assignor.)
- Springfield Metallic Casket Company, The. (See Watts, Thomas A., assignor.)
- Sprong, Severn D., Brooklyn, N. Y. Lock-nut. No. 1,311,139; July 22; v. 264; p. 673.
- Sprong, Severn D., Brooklyn, N. Y. Reactance-coil. No. 1,314,373; Aug. 26; v. 265; p. 561.
- Spross, Frederick B., Churchville, N. Y. Spring-wheel. No. 1,326,144; Dec. 23; v. 269; p. 671.
- Sprott, Willie. (See Marquis and Sprott.)
- Sproul, Joseph, Jersey City Heights, N. J., assignor to Kast Insetting and Gathering Machine Co., New York, N. Y. Signature-handling device. No. 1,294,559; Feb. 18; v. 259; p. 436.
- Sproul, Lark A., Edmund, Kans. Ensilage-harvester. No. 1,308,818; July 8; v. 264; p. 176.
- Sprout, Waldron & Company. (See Snyder, Simon, assignor.)
- Sprowl, William L., Van Alstyne, Tex. Checking attachment for planters. No. 1,304,916; May 27; v. 262; p. 561.
- Spruance, Daniel C. (See Fletcher and Spruance.)
- Spruch, Frank, Flint, Mich. Cuspidor-cleaner. No. 1,302,481; Apr. 29; v. 261; p. 936.
- Spurling, Harry, Taylorville, Ill. Ear-tag. No. 1,320,426; Nov. 4; v. 268; p. 13.
- Spruyt, Cornelius, Coleman, Wis. Device to assist cows in calving. No. 1,326,800; Dec. 30; v. 269; p. 832.
- Spurgeon, Edward, Plummer, Idaho. Current-motor. No. 1,290,391; Jan. 7; v. 258; p. 90.
- Spurling, Harry, Taylorville, Ill. Ear-tag tongs. No. 1,320,427; Nov. 4; v. 268; p. 13.
- Spurr, Foster M., Mattapan, Mass. Pipe attachment. No. 1,320,939; Nov. 4; v. 268; p. 109.
- Spurrier, John R., Bethlehem, Pa., assignor to Roller-Smith Company. Circuit-breaker. No. 1,312,282; Aug. 5; v. 265; p. 79.
- Square D Company. (See Freeman and Zenker, assignors.)
- Squarebriggs, James C., North Vancouver, British Columbia, Canada. Trolling-line sinker. No. 1,320,804; Nov. 4; v. 268; p. 84.
- Squarey, Edward M. (See Fuhrmann and Squarey.)
- Squarey, Edwin M. (See Fuhrmann and Squarey.)
- Squibb, Lloyd Y., Camden, N. J., assignor to Victor Talking Machine Company. Stop mechanism for talking-machines. No. 1,303,125; May 6; v. 262; p. 123.



- Squibb, Lloyd Y., Camden, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,323,726; Dec. 2; v. 269; p. 94.
- Squier, George A., Cleveland, Ohio. Machine for truing grinding-disks. No. 1,309,264; July 8; v. 264; p. 260.
- Squire, Raymond S. (See Jackman and Squire.)
- Squire, William H., and H. A. Mercier, St. Denis, France, assignors to Société Anonyme des Anciens Etablissements Hotchkiss & Cie, St. Denis, France. Automatic firearm. No. 1,317,633; Sept. 30; v. 266; p. 695.
- Squires, John, Grosse Point Park, Mich., and C. P. King, Chicago, Ill. Liquid-fuel igniter and burner. No. 1,307,797; June 24; v. 263; p. 573.
- St. Clair, Charles L., Concordia, Kans. Machine for threshing or shelling grain. No. 1,307,322; June 17; v. 263; p. 453.
- St. Clair, David A., Wytheville, Va., assignor to G. Reis & Bro. Inc., New York, N. Y. Filler-form for embroidery. No. 1,294,560; Feb. 18; v. 259; p. 436.
- St. Clair, Edward H., Paris Station, Ontario, Canada. Detachable-tooth comb. No. 1,322,268; Nov. 18; v. 268; p. 474.
- St. Clair, Robert W. (See Decker, Sharp, assignor.)
- St. Clair, Walter, and E. S. Robertson, Rocky Mount, Va. Stomach-pump attachment. No. 1,313,610; Aug. 19; v. 265; p. 385.
- St. Claire, Ethelbert M. (See Farnsworth and St. Claire.)
- St. John, Jesse A., Decatur, Ill. Corn-harvester. No. 1,306,317; June 10; v. 263; p. 236.
- St. Hilaire, Carl, Gardner, Mass. Demountable rim. No. 1,290,556; Jan. 7; v. 258; p. 131.
- St. Louis Brique Machine Company. (See Komarek, Gustav, assignor.)
- St. Louis Car Company. (See Keil, Lewis E., assignor.)
- St. Louis, George C., and C. Pearson, Fresno, Cal. Airship. No. 1,290,847; Jan. 7; v. 258; p. 199.
- St. Louis, George C., and C. Pearson, Fresno, Calif. Aeroplane. No. 1,326,220; Dec. 30; v. 269; p. 722.
- St. Louis Metalware Co. (See Wackman and Connors, assignors.)
- St. Louis Tin & Sheet Metal Working Co. (See Blanke, Cyrus F., assignor.)
- St. Onge, Ernest W., Superior, Wis. Clevis. No. 1,319,730; Oct. 28; v. 267; p. 504.
- St. Pierre, Octave J., Chauvin, Alberta, Canada. Drillpress. No. 1,293,238; Feb. 4; v. 259; p. 60.
- St. Pierre, Octave J., Chauvin, Alberta, Canada. Life-preserver. No. 1,316,816; Sept. 23; v. 266; p. 504.
- St. Pierre, Octave J., Chauvin, Alberta, Canada. Watchholder. No. 1,316,815; Sept. 23; v. 266; p. 504.
- St. Stoeser, Leopold, et al. (See Higbee, Jesse P., assignor.)
- Staab, Henry A., Milwaukee, Wis. Soap-flaker. No. 1,314,026; Aug. 26; v. 265; p. 495.
- Stabla, Anton, Eccles, W. Va. Kaleidoscope. No. 1,294,967; Feb. 18; v. 259; p. 530.
- Stable, Juan N., Geneva, Switzerland. Apparatus for sterilizing water-closet seats. No. 1,297,031; Mar. 11; v. 260; p. 311.
- Stabler, William H., and E. E. Caldwell, Baltimore, Md., assignors to American Can Company. Can-end lining and marking machine. No. 1,318,416; Oct. 14; v. 267; p. 205.
- Stacey, Alfred E., Jr., Chicago, Ill., assignor to Carrier Engineering Corporation, New York, N. Y. Drying material. No. 1,312,759; Aug. 12; v. 265; p. 202.
- Stacey, William A., Chicago, Ill., assignor to The Bryant Electric Company. Attachment-plug. No. 1,292,911; Jan. 28; v. 258; p. 770.
- Stachowski, Joseph, New York, N. Y., assignor to Schuch Machine Company, Philadelphia, Pa. Shredding-machine. No. 1,319,496; Oct. 21; v. 267; p. 437.
- Stack, Elmer S., West Somerville, Mass., assignor to Stack Heater Company. Automatic regulator for gas water-heaters. No. 1,292,912; Jan. 28; v. 258; p. 771.
- Stack, Elmer S., West Somerville, Mass. Water-heater. No. 1,306,197; June 10; v. 263; p. 212.
- Stack, Ervin B., Monroe, N. C. Combined transformer and rectifier. No. 1,316,546; Sept. 16; v. 266; p. 406.
- Stack, George E., Ballston, N. Y., assignor to General Electric Company. Motor-control system. No. 1,326,004; Dec. 23; v. 269; p. 645.
- Stack Heater Company. (See Stack, Elmer S., assignor.)
- Stack, John, Chicago, Ill. Toy. No. 1,308,124; July 1; v. 264; p. 22.
- Stackpole, Everett B., Seattle, Wash. Cuff. No. 1,300,038; Apr. 8; v. 261; p. 350.
- Stackpole, Wesley A., Monroe, Wash. Music-leaf turner. No. 1,315,999; Sept. 16; v. 266; p. 302.
- Stacy, Charles E., Dayton, Ohio. Airplane. No. 1,311,097; July 22; v. 264; p. 666.
- Stacy, Charles E., and C. D., Dayton, Ohio. Aeroplane. No. 1,309,968; July 15; v. 264; p. 428.
- Stacy, Cornelius D. (See Stacy, Charles E. and C. D.)
- Stacy, Elmer N., assignor to Decarie Incinerator Company, Minneapolis, Minn. Incinerator. No. 1,315,582; Sept. 9; v. 266; p. 212.
- Stacy, Fred M., and W. F. Woods, Portsmouth, N. H. Fire-arm indicator. No. 1,297,268; Mar. 11; v. 260; p. 362.
- Stadeker, Gilbert I., Chicago, Ill. Wind-shield wiper. No. 1,326,145; Dec. 23; v. 269; p. 671.
- Stadig, Walter L., St. Francis, Me. Snow-plow and snow-loader. No. 1,314,762; Sept. 2; v. 266; p. 54.
- Stadtler, Mathias, Chicago, Ill. Metallic spring-support. No. 1,324,438; Dec. 9; v. 269; p. 274.
- Staehle, Theodore, Chicago, Ill. Electric switch. No. 1,326,301; Dec. 30; v. 269; p. 737.
- Staff, Clifford M. (See Hart, Jevne, and Staff.)
- Stafford, Alfred E., assignor to Draper Corporation, Hopdale, Mass. Spent-weft cutter. No. 1,291,224; Jan. 14; v. 258; p. 313.
- Stafford, Alfred E., assignor to Draper Corporation, Hopdale, Mass. Slack-thread producer. No. 1,292,382; Jan. 21; v. 258; p. 623.
- Stafford, Alfred E., assignor to Draper Corporation, Hopdale, Mass. Filling clamping and parting mechanism for looms. No. 1,317,833; Oct. 7; v. 267; p. 33.
- Stafford, Benjamin E. D. (See Dodds, Stafford, and Hyland.)
- Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt-testing device. No. 1,298,416; Mar. 25; v. 260; p. 660.
- Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Railway-track construction. No. 1,295,937; Mar. 4; v. 260; p. 26.
- Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Stay-bolt structure. No. 1,313,647; Aug. 19; v. 265; p. 389.
- Stafford Company, The. (See Jackson, Simeon S., assignor.)
- Stafford Company, The. (See Lavigne, Albert, assignor.)
- Stafford Company, The. (See Morrill, Manley G., assignor.)
- Stafford, Edward B., assignor to one-half to John R. McMahon, New Orleans, La. Lock for motor-vehicles. No. 1,314,713; Sept. 2; v. 266; p. 45.
- Stafford, Ezra H., Glencoe, assignor to E. H. Stafford Manufacturing Co., Chicago, Ill. Combined seat and desk. No. 1,303,981; May 20; v. 262; p. 346.
- Stafford, Frank R., Philadelphia, Pa. Die. No. 1,314,611; Sept. 2; v. 266; p. 26.
- Stafford, Frank R., Philadelphia, Pa. Making dies. No. 1,314,612; Sept. 2; v. 266; p. 26.
- Stafford, Hal R. (See Mohun and Stafford.)
- Stafford, Hal R., Plainfield, N. J., assignor to one-third to J. E. Muhlfeld, Scarsdale, N. Y. Locomotive exhaust-pipe. No. 1,306,444; June 10; v. 263; p. 260.
- Stafford, James R., Oregon City, Oreg., and F. J. Klein, New York, N. Y., said Stafford assignor to said Klein. Paper-fastener. No. 1,291,225; Jan. 14; v. 258; p. 314.
- Stafford, John J., H. C. Rhodehamel, and E. J. Schoenlaub, Marion, Ohio. Automatic slide-valve. No. 1,315,797; Sept. 9; v. 266; p. 250.
- Stafford, William E., Oswego, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Veneer-lathe. No. 1,293,230; Feb. 4; v. 258; p. 58.
- Stage, Harold L., Soulshyville, Calif. Automatic pneumatic feed. No. 1,297,925; Mar. 18; v. 260; p. 531.
- Stage, Solomon. (See Parrish and Stage.)
- Stager, Wolfram. (See Obermiller, Max W., assignor.)
- Stagg, Clayton B. (See Hanks, Walter W., assignor.)
- Stagg, Thomas D., London, England. Wheel of vehicles, driving-pulleys, and the like. No. 1,311,537; July 29; v. 264; p. 781.
- Stahl, Albert L., Memphis, Tenn. Tire-deflating indicator. No. 1,305,315; June 3; v. 263; p. 16.
- Stahl, Frank W., Denver, Colo. Type-writing machine. No. 1,312,760; Aug. 12; v. 265; p. 202.
- Stahl, James E., E. S. Benjamin, A. B. Griffith, and R. Loffland, assignors to Cement Products Company, Worthington, Ind. Stave-mold. No. 1,325,051; Dec. 16; v. 269; p. 451.
- Stahl, Karl F., Pittsburgh, Pa. Apparatus for absorbing hydrofluosilicic-acid gas and separating silicic acid therefrom. No. 1,315,250; Sept. 9; v. 266; p. 152.
- Stahl, Rodolphe, Jackson, Mich. Radiator-hood. No. 1,322,970; Nov. 25; v. 268; p. 658.
- Stahlhuth, Ernst H. W., Columbus, Ind. Camera-finder. No. 1,312,283; Aug. 5; v. 265; p. 79.
- Staiger, George H. (See Veltou, William H., assignor.)
- Stains, George M. (See Woolver and Stains.)
- Stair, Blaine A., Los Angeles, Calif. Drinking device. No. 1,314,374; Aug. 26; v. 265; p. 562.
- Stajonovitz, Konstantin, assignor to one-half to H. Gottshalk, New York, N. Y. Clasp. No. 1,324,570; Dec. 9; v. 269; p. 300.
- Stake, Herman, and A. P. Ekvall, assignors to Economic Machinery Company, Worcester, Mass. Labeling-machine. No. 1,301,015; Apr. 15; v. 261; p. 585.
- Stalberg, Dora. (See Ervlin, Leo E., assignor.)
- Stalder, Mary, Chicago, Ill. Dressmaker's stand. No. 1,293,967; Feb. 11; v. 259; p. 262.
- Staley, Harrison L., Martinsville, Ind., assignor to Wilts Veneer Company, Richmond, Va. Machine for making box-blanks. No. 1,292,119; Jan. 21; v. 258; p. 561.
- Staley, Harrison L., Martinsville, Ind., and W. B. Simmons, assignors to Wilts Veneer Company, Richmond, Va. Pail-bottom fastener. No. 1,297,411; Mar. 18; v. 260; p. 421.
- Staley, Russell U., Spokane, Wash. Railway-tie. No. 1,298,812; Apr. 1; v. 261; p. 46.



## Alphabetical list of patentees—Continued.

- Stallfort, Edwin D., Baltimore, Md. Concave rolled suction-cup heel. No. 1,292,120; Jan. 21; v. 258; p. 561.
- Stallfort, Edwin D., Baltimore, Md. Cushion-heel. No. 1,307,990; June 24; v. 263; p. 609.
- Stalker, Frederick W. (See Norwood and Stalker.)
- Stallman, Granville H., Chicago, Ill. Sausage-stuffing machine. No. 1,295,809; Feb. 25; v. 259; p. 747.
- Stallsmith, David G., Logan, Ohio. Railway brake-beam. No. 1,314,287; Aug. 26; v. 265; p. 545.
- Stamm, Charles H., assignor to Hitch-Lined Cement Casket Co., Indianapolis, Ind. Burial-casket. No. 1,300,667; Apr. 15; v. 261; p. 510.
- Stamm, O. L., et al. (See Lamar, Alexis L., assignor.)
- Stamp, Hugo O., Milwaukee, Wis. Concrete-mixer loader. No. 1,290,797; Jan. 7; v. 263; p. 189.
- Stamp, Hugo O., Milwaukee, Wis. Charging device for concrete-mixers. No. 1,298,114; Mar. 25; v. 260; p. 596.
- Stamp, Hugo O., Milwaukee, Wis. Conveying concrete aggregate. No. 1,304,619; May 27; v. 262; p. 505.
- Stamp, John W., Melbourne, Victoria, Australia. Desiccating-machine. No. 1,299,254; Apr. 1; v. 261; p. 145.
- Stamp Loading Machine Company. (See Humphries, Joseph P., assignor.)
- Stampen, Jacob, Chicago, Ill. Gearing for cream-separators. No. 1,301,756; Apr. 22; v. 261; p. 767.
- Stampen, Jacob, Chicago, Ill. Cream-separator. No. 1,326,376; Dec. 30; v. 269; p. 751.
- Stanard, Maurice L., et al., trustees. (See Stanard, Maurice L., assignor.)
- Stanard, Maurice L., Kansas City, Mo. Oil-burning apparatus. No. 1,325,811; Dec. 23; v. 269; p. 610.
- Stanard, Maurice L., assignor to W. O. Krueger, E. H. Mills, F. H. Stanard, M. L. Stanard, T. H. Belrose, J. F. Farrell, and H. L. Nicholson, trustees, Kansas City, Mo. Steam-generator. No. 1,313,963; Aug. 26; v. 265; p. 483.
- Stanbon, Charles P., Lynn, Mass. Brake. No. 1,309,590; July 8; v. 264; p. 321.
- Stanbon, Charles P., Lynn, Mass. Car-body. No. 1,326,881; Dec. 30; v. 269; p. 847.
- Stanbrough, William F. C., Carthage, and L. F. Lascelle, Springfield, Mo. Attachment for hydrocarbon-engines. No. 1,314,763; Sept. 2; v. 266; p. 54.
- Stanbrough, William M., Newburgh, N. Y. Stand for dental articulators. No. 1,320,583; Nov. 4; v. 268; p. 42.
- Stanchiff, Clifton L., Bakersfield, Calif. Piston. No. 1,320,428; Nov. 4; v. 268; p. 14.
- Stanchiff, Edwin O., Bakersfield, Calif. Shock-loader. No. 1,309,550; July 8; v. 264; p. 313.
- Standard Automatic Machine Company. (See Gomer, George W., assignor.)
- Standard Automatic Machine Company. (See Ravert, William I., assignor.)
- Standard Bleachery Company. (See Swenson, Martin, assignor.)
- Standard Bottle Stopper Co. (See Abbott, Leonard G., assignor.) (Reissue.)
- Standard Car Truck Company. (See Barber, John C., assignor.)
- Standard Car Truck Company. (See Barber and Webb, assignors.)
- Standard Car Truck Company. (See Webb, Edwin W., assignor.)
- Standard Check Book Company. (See Smith, Henry, assignor.)
- Standard Chemical Company. (See Hartenbeim, Max, assignor.)
- Standard Chemical Company. (See Vogt, Louis F., assignor.)
- Standard Computing Scale Company. (See Buckingham, Fremont H., assignor.)
- Standard Corrugated Box Co. (See Borders and Roehrig, assignors.)
- Standard Engineering Company. (See Scott, Lewis L., assignor.)
- Standard Fuel Engineering Company. (See Beeman, Joseph J., assignor.)
- Standard Gas Engine Company, The. (See Mohrdieck, Peter, assignor.)
- Standard Ignition Company. (See Stratton, John F. O., assignor.)
- Standard Liquid Recording Company. (See Batdorf, Charles S., assignor.) (Reissue.)
- Standard Machine Company. (See Houseman, Harold E., assignor.)
- Standard Moth Bag Company. (See Normandy, Charles R., assignor.)
- Standard Oil Company. (See Burgess, Louis, assignor.)
- Standard Oil Company. (See Cobb, Ernest R., assignor.)
- Standard Oil Company. (See Husted, Clifford M., assignor.)
- Standard Oil Company. (See Rogers, Francis M., assignor.)
- Standard Oil Company of New York. (See Smart, Henry C., assignor.)
- Standard Oil Company (of Indiana). (See Gardner, Charles H., assignor.)
- Standard Optical Company. (See Gilbert, Clarence J., assignor.)
- Standard Optical Company, The. (See Long, Eli M., assignor.)
- Standard Optical Company, The. (See Van Tassel, John R., assignor.)
- Standard Paint Company, The. (See Abraham, Herbert, assignor.)
- Standard Parts Company, The. (See Annabie, Lee V., assignor.)
- Standard Parts Company, The. (See Baker, Walter C., assignor.)
- Standard Parts Company, The. (See Bryant, Richard S., assignor.)
- Standard Parts Company, The. (See Butcher, Harry E., assignor.)
- Standard Parts Company, The. (See Clemens, Chester E., assignor.)
- Standard Parts Company, The. (See Fay, Thomas J., assignor.)
- Standard Parts Company, The. (See Girl, Christian, assignor.)
- Standard Parts Company, The. (See Gressle, Charles W., assignor.)
- Standard Parts Company, The. (See Jobski, Otto H., assignor.)
- Standard Parts Company, The. (See Knudson, John L., assignor.)
- Standard Parts Company, The, et al. (See Lloyd, Marshall B., assignor.)
- Standard Parts Company, The. (See McIntyre, Michael M., assignor.)
- Standard Parts Company, The. (See Newsom, Horace H., assignor.)
- Standard Parts Company, The. (See Oberlin, John F., assignor.)
- Standard Parts Company, The. (See Pelton, Clyde S., assignor.)
- Standard Parts Company, The. (See Schurtis, Charles F., assignor.)
- Standard Parts Company, The. (See Theberath, Joseph C., assignor.)
- Standard Parts Company, The. (See Zimmerman, Thomas, assignor.)
- Standard Pneumatic Action Company. (See Fiala, Joseph B., assignor.)
- Standard Pneumatic Action Co. (See Southgate, Louis W., assignor.)
- Standard Pressed Steel Co. (See Fairbanks, Ernest S., assignor.)
- Standard Sanitary Manufacturing Company. (See Gillette, Hallock N., assignor.)
- Standard Scientific Company. (See Parker, Newell D., assignor.)
- Standard Separator Company. (See Salisbury, Charles K., assignor.)
- Standard Shoe Machinery Co. (See Fried, Marcus, assignor.)
- Standard Steel Car Company. (See Christianson, Andrew, assignor.)
- Standard Stove & Light Company. (See Ferguson, Thomas B., assignor.)
- Standard Underground Cable Company. (See Davis and Simons, assignors.)
- Standard Varnish Works. (See Beausejour, Reme A., assignor.)
- Standard Woven Fabric Company. (See Waite, Edwin E., assignor.)
- Standex Manufacturing Corporation. (See Hansen, Viggo N., assignor.)
- Standish, Frederick, Shelton, Conn. Reversible cuff. No. 1,307,934; June 24; v. 263; p. 598.
- Standish, John F., Winthrop, Mass., assignor, by mesne assignments, to United-Expedito Finishing Company, Berwick, Me. Heating device. No. 1,320,653; Nov. 4; v. 268; p. 55.
- Standish, Katharine L., New York, N. Y. Telephone-receiver support. No. 1,306,445; June 10; v. 263; p. 260.
- Standley, Meredith G., Cincinnati, Ohio, and A. E. Rowman, Covington, Ky. Receipting stamp and register. No. 1,311,189; July 29; v. 264; p. 716.
- Standley, William E., assignor to Window Glass Rotary Pot Company, Pittsburgh, Pa. Window-glass-blowing head. No. 1,307,381; June 24; v. 263; p. 498.
- Stanecky, Joseph G., assignor of one-half to J. J. Zebolen, Cicero, Ill. Brush. No. 1,307,837; June 24; v. 263; p. 580.
- Stanfield, George J. (See Geeraerd, Evariste, assignor.)
- Stanfield, Jasper H., Muskegon, Mich., assignor to J. B. Alton, Winnetka, Ill. Mat-weaving machine. No. 1,304,216; May 20; v. 262; p. 389.
- Stanfield, Perry. (See Maynard and Stanfield.)
- Stanfield, William R., Union, Iowa. Cultivator attachment. No. 1,320,507; Nov. 4; v. 268; p. 28.
- Stanford, Arthur L., Chicago, Ill. Nut-cutting tool. No. 1,300,039; Apr. 8; v. 261; p. 350.
- Stange, Robert O. F. (See Pilors and Stange.)
- Stanger, Joseph E., Bridgeton, N. J. Life-saving device for aircraft. No. 1,290,798; Jan. 7; v. 258; p. 189.
- Stanislav, John, Wilpen, Pa. Wheel for vehicles. No. 1,317,331; Sept. 30; v. 266; p. 637.
- Stankee, Paul W., Davenport, Iowa. Hog-farrowing guard-rail. No. 1,318,815; Oct. 14; v. 267; p. 281.
- Stanley, Frederick E., assignor to Scovill Manufacturing Company, Waterbury, Conn. Flexible-shank tack-button. No. 1,292,913; Jan. 28; v. 258; p. 771.



- Stanley, George E., Coventry, England. Internal-combustion engine. No. 1,306,198; June 10; v. 263; p. 212.
- Stanley, George E., Coventry, England. Shock-absorbing mechanism for vehicles. No. 1,309,490; July 8; v. 264; p. 302.
- Stanley Insulating Company. (See Smith and Stanley, assignors.)
- Stanley, Irving, New York, N. Y. Muffler cut-out. No. 1,304,113; May 20; v. 262; p. 369.
- Stanley, James, Washington, D. C. Mail-deliverer. No. 1,299,867; Apr. 8; v. 261; p. 313.
- Stanley, James S., Indianapolis, Ind. Brush. No. 1,322,641; Nov. 25; v. 268; p. 596.
- Stanley, James S., Ithaca, N. Y. Pivoted closure for containers or the like. No. 1,325,269; Dec. 16; v. 269; p. 492.
- Stanley, John, Seattle, Wash. Amusement device. No. 1,290,392; Jan. 7; v. 258; p. 91.
- Stanley, John, assignor to John Stanley Lock Company, Seattle, Wash. Automobile-lock. No. 1,295,810; Feb. 25; v. 259; p. 747.
- Stanley Motor Carriage Company. (See Broad, Charles E., assignor.)
- Stanley Rule & Level Co., The. (See Bodmer, Christian, assignor.)
- Stanley Rule & Level Co., The. (See Richards, Hubert P., assignor.)
- Stanley, Shirley Q., Chicago, Ill. Garment presser and creaser. No. 1,300,668; Apr. 15; v. 261; p. 510.
- Stanley, Theodore D., assignor to Leland Lock Company, Detroit, Mich. Steering-wheel lock. No. 1,300,505; Apr. 15; v. 261; p. 477.
- Stanley, Theodore D., assignor to Leland Lock Company, Detroit, Mich. Steering-wheel lock. No. 1,304,516; May 20; v. 262; p. 448.
- Stanley, William H., Anacortes, Wash. Insect-trap. No. 1,294,184; Feb. 11; v. 259; p. 313.
- Stanley, William W. (See Smith and Stanley.)
- Stanley Works, The. (See Parsons and King, assignors.)
- Stanley Works, The. (See Prindle, Frank P., assignor.)
- Stanley Works, The. (See Wooster and Knox, assignors.)
- Stannard, F. H., et al., trustees. (See Stanard, Maurice L., assignor.)
- Stannard, Floyd C. (See Muir, Levi, assignor.)
- Stansbury, Garrett O. (See Moore and Stansbury.)
- Stansberry, William L., Marshalltown, Iowa. Cow-hopple and tail-holder. No. 1,315,689; Sept. 9; v. 266; p. 230.
- Stanton, Frederick, Camden, N. J. Geometric instrument. No. 1,304,713; May 27; v. 262; p. 523.
- Stanton, Frederick L. (See Fish, Gilbert D., assignor.)
- Stanton, Frederick L., New York, N. Y. System of dental charts and making the same. No. 1,293,567; Feb. 4; v. 259; p. 138.
- Stanton, Frederick L., and G. D. Fish, New York, N. Y.; said Fish assignor to said Stanton. Means for placing teeth in correct positions. No. 1,307,382; June 24; v. 263; p. 498.
- Stanton, Frederick W., Chicago, Ill. Vaginal syringe. No. 1,320,286; Oct. 28; v. 267; p. 608.
- Stanton, Gay A., Battle Creek, Mich. Spring suspension for vehicles. No. 1,312,284; Aug. 5; v. 265; p. 80.
- Stanton, Harold A. (See Lewis, James V. and L. R., assignors.)
- Stanton, Warren F., assignor to M. C. Messler, Pawtucket, R. I. Compression-operated ignition device. No. 1,324,626; Dec. 9; v. 269; p. 311.
- Stanwood Equipment Co. (See Stanwood, Frank H., assignor.)
- Stanwood, Frank H., Arlington, assignor to Stanwood Equipment Co., Boston, Mass. Hand door-pad for automobiles. No. 1,306,199; June 10; v. 263; p. 213.
- Staples, Albert F., Boston, Mass. Control mechanism. No. 1,308,559; July 1; v. 264; p. 101.
- Staples, Horace A., Bridgeport, Conn. Multiple-arbor draw-press. No. 1,293,231; Feb. 4; v. 259; p. 59.
- Staples, Sarah S., London, England. Bottle. No. 1,304,114; May 20; v. 262; p. 370.
- Stapley, Philip H., Milford, assignor to Coe, Stapley Manufacturing Corporation, Bridgeport, Conn. Self-lubricating piston for air-pumps. No. 1,306,640; June 10; v. 263; p. 206.
- Stapp, Artie A., Denver, Colo. Obtaining distilled products from petroleum and other oils. No. 1,324,212; Dec. 9; v. 269; p. 231.
- Stapp, Artie A., Denver, Colo. Apparatus for obtaining distilled products, particularly gasoline, from petroleum and other oils. No. 1,324,213; Dec. 9; v. 269; p. 231.
- Stapper, Hendrik, Hoboken, and J. C. Van Eyk, Jersey City, N. J. Liquid-fuel burner. No. 1,295,381; Feb. 25; v. 259; p. 647.
- Stappler, Salomon J., New York, N. Y. Nailing-machine for skins and the like. No. 1,315,645; Sept. 9; v. 266; p. 222.
- Star Ball Player Company. (See Oscanyan, Paul C., assignor.)
- Starbuck, Ernest, assignor to W. I. Slemmons, Peoria, Ill.; Dime Savings & Trust Co., administrator. Hoggreaser. No. 1,315,583; Sept. 9; v. 266; p. 212.
- Stark, Ambrose E., Aurora, Ind. Car-door brace. No. 1,297,269; Mar. 11; v. 260; p. 362.
- Stark, Andrew C., Toronto, Ontario, Canada. Support for motorcycles and the like. No. 1,315,048; Sept. 2; v. 266; p. 105.
- Stark, Arthur H. (See Dickinson and Stark.)
- Stark, Gara R., El Campo, Tex. Spring-clip tool. No. 1,308,687; July 1; v. 264; p. 125.
- Stark, John R., assignor to Webster Electric Company, Racine, Wis. Magneto. No. 1,321,158; Nov. 11; v. 268; p. 214.
- Stark, Julian E., assignor to Crane Company, Chicago, Ill. Flushing device for water-closets. No. 1,301,188; Apr. 22; v. 261; p. 657.
- Stark, Otto, Rhinelander, Wis. Lock-nut. No. 1,317,332; Sept. 30; v. 266; p. 637.
- Stark, Robert S., et al. (See Guest, John B. H., assignor.)
- Stark, William J., Vancouver, British Columbia, Canada. Automatic switch for air-compressor motors. No. 1,293,968; Feb. 11; v. 259; p. 262.
- Stark, William J., Vancouver, and S. R. Ramsay, New Westminster, British Columbia, Canada. Rim for pneumatic tires. No. 1,302,447; Apr. 29; v. 261; p. 930.
- Starke, Paul A., Berkeley, assignor to The Balfour Guthrie Investment Company, San Francisco, Calif. Producing cyanogen and ammonia. No. 1,306,862; June 17; v. 263; p. 369.
- Starker, Charles W. (See Hellmund and Starker.)
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, Brushholder. No. 1,292,660; Jan. 28; v. 258; p. 711.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, Furnace. No. 1,298,813; Apr. 1; v. 261; p. 46.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,300,302; Apr. 15; v. 261; p. 433.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,300,506; Apr. 15; v. 261; p. 477.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Axle-bearing. No. 1,300,507; Apr. 15; v. 261; p. 477.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Shaft-bearing. No. 1,303,408; May 13; v. 262; p. 203.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Axle-cap for dynamo-electric machines. No. 1,300,509; Apr. 15; v. 261; p. 477.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Frame structure for dynamo-electric machines. No. 1,314,545; Sept. 2; v. 266; p. 13.
- Starker, Charles W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Bearing-housing. No. 1,317,233; Sept. 30; v. 266; p. 618.
- Starker, Charles W., Pittsburgh, and G. L. S. Kronfeld, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Armature for dynamo-electric machines. No. 1,300,508; Apr. 15; v. 261; p. 477.
- Starker, Charles W., Pittsburgh, and G. L. S. Kronfeld, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Gear-case and forming same. No. 1,305,019; May 27; v. 262; p. 580.
- Starker, Charles W., Pittsburgh, and R. E. Hellmund, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Frame for dynamo-electric machines. No. 1,306,563; June 10; v. 263; p. 281.
- Starker, Charles W., Pittsburgh, Pa., and A. R. Pribil, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company. Frame for dynamo-electric machines. No. 1,306,564; June 10; v. 263; p. 282.
- Starker, Charles W., Pittsburgh, and M. B. Lambert, Edgewood Park, Pa., assignors to Westinghouse Electric and Manufacturing Company. Dynamo-electric-machine frame. No. 1,326,302; Dec. 30; v. 269; p. 738.
- Starkey, Rollin E. (See Stroud, Charles M., assignor.)
- Starling, Sydney G., Forest Gate, and Arthur J. Hughes, London, assignors to Henry Hughes and Son Ltd., London, England. Magnetic compass. No. 1,307,935; June 24; v. 263; p. 598.
- Starman, Joseph. (See Weis and Starman.)
- Starmanns, Gustav J., St. Louis, Mo. Street-sprinkler. No. 1,290,393; Jan. 7; v. 258; p. 91.
- Starnes, Joseph E., Live Oak, Fla. Spark-arrester. No. 1,312,761; Aug. 12; v. 265; p. 202.
- Starobinetz, Charles, Jacksonville, Fla., assignor of one-half to Barking Chemicals Company, Limited, London, England. Sulfur dye. No. 1,318,022; Oct. 7; v. 267; p. 69.
- Starr, Alden B., Brooklyn, N. Y. Drying-machine. No. 1,297,926; Mar. 18; v. 260; p. 531.
- Starr, Alden B., Brooklyn, N. Y. Coconut-husking machine. No. 1,319,810; Oct. 28; v. 267; p. 519.
- Starr, Ambrose M. (See Lester and Starr.)
- Starr, Charles E., Sedro Woolley, assignor to Seattle Patent Holding Corporation, Seattle, Wash. Vehicle driving-gear. No. 1,323,795; Dec. 2; v. 269; p. 107.



## Alphabetical list of patentees—Continued.

- Starr, Clarence D., assignor to Barstow Stove Company, Providence, R. I. Stove-grate. No. 1,321,858; Nov. 18; v. 268; p. 398.
- Starr, Herman J., Osage, Iowa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Motor-driven vehicle. No. 1,297,747; Mar. 18; v. 260; p. 493.
- Starrett, Laro S., Athol, Mass., assignor to The L. S. Starrett Company, Tool-driver. No. 1,304,714; May 27; v. 262; p. 523.
- Starr, Morris H. (See Turner, Roscoe S. E., assignor.)
- Starr Piano Company, The. (See Maxwell, John S., assignor.)
- Starr Piano Company. (See Mayer, Fred G., assignor.)
- Starr, William L., Americus, Ga. Electric-switch lock. No. 1,317,053; Sept. 23; v. 266; p. 548.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Corner-iron for panel-board frames. No. 1,290,394; Jan. 7; v. 258; p. 91.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Panel-board and panel-board construction. No. 1,294,185; Feb. 11; v. 259; p. 313.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Panel-board. No. 1,321,486; Nov. 11; v. 268; p. 277.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Panel-board construction. No. 1,321,487; Nov. 11; v. 268; p. 277.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Panel-board. No. 1,321,488; Nov. 11; v. 268; p. 277.
- Starrett, Henry F., assignor, by mesne assignments, to Starrett Manufacturing Company, Chicago, Ill. Panel-board. No. 1,321,489; Nov. 11; v. 268; p. 277.
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Panel-board and panel-board construction. No. 1,325,052; Dec. 16; v. 269; p. 451.
- Starrett Manufacturing Company. (See Starrett, Henry F., assignor.)
- Starrett, Roscoe R., and G. W. Round, Cleveland, Ohio. Combined snow pusher and shovel. No. 1,319,912; Oct. 28; v. 267; p. 530.
- Stars, Robert E., Cleveland, Ohio. Protective door for box-cars. No. 1,309,373; July 8; v. 264; p. 280.
- Stary, Emil P., Cedar Rapids, Iowa. Internal-combustion engine. No. 1,318,619; Oct. 14; v. 267; p. 244.
- Stasse, John, Laporte, Ind. Bread-cutting device. No. 1,316,518; Sept. 16; v. 266; p. 400.
- Statham, Noel, Hastings-upon-Hudson, assignor to West Virginia Pulp and Paper Company, New York, N. Y. Causticized organic material and making the same. No. 1,298,594; Mar. 25; v. 260; p. 699.
- Statham, Roland J., Vancouver, British Columbia, Canada. Wrench. No. 1,305,628; June 3; v. 263; p. 77.
- Staton, Wesley B., Gray, Saskatchewan, Canada. Picture-puzzle. No. 1,300,891; Apr. 15; v. 261; p. 558.
- Staton, Wesley B., Gray, Saskatchewan, Canada. Slat for harvester-reels. No. 1,309,342; July 8; v. 264; p. 274.
- Stauber, Joseph A., Park Falls, Wis. Attachment for heading saws. No. 1,324,325; Dec. 9; v. 269; p. 252.
- Staudé, Edwin G., Minneapolis, Minn. Driving-pinion. No. 1,300,786; Apr. 15; v. 261; p. 536.
- Staudé, Edwin G., Minneapolis, Minn. Driving-pinion. (Reissue.) No. 14,700; July 29; v. 264; p. 842.
- Staudé, Edwin G., Minneapolis, Minn. Box-topping machine. No. 1,314,988; Sept. 2; v. 266; p. 95.
- Staudé, Edwin G., Minneapolis, Minn. Gearing. No. 1,324,473; Dec. 9; v. 269; p. 282.
- Staudé, Edwin G., Minneapolis, Minn. Glue-pot. No. 1,324,474; Dec. 9; v. 269; p. 282.
- Staudé, Edwin G., Minneapolis, assignor to E. G. Staudé Manufacturing Company, St. Paul, Minn. Carbureter. No. 1,297,506; Mar. 18; v. 260; p. 440.
- Staudé, Edwin G., and V. A. Boker, Minneapolis, Minn. Travel-controlling mechanism for tractors. No. 1,294,317; Feb. 11; v. 259; p. 344.
- Stauffer, Charles F. (See Falkenwalde, Oscar, assignor.)
- Stauffer, Joseph D., Coatesville, Pa. Tobacco-clipper. No. 1,304,917; May 27; v. 262; p. 561.
- Stauffer, Joseph E., Mount Dora, N. Mex. Attachment for motor-driven vehicles. No. 1,308,874; July 8; v. 264; p. 187.
- Stauffer, Wallace W., Akron, Ind. Puzzle. No. 1,325,122; Dec. 16; v. 269; p. 465.
- Stauffer, Wilbert W., Wilbur, Wash. Cooling system for motor-vehicles. No. 1,311,470; July 29; v. 264; p. 768.
- Stava, Fred R., Milroy, Minn. Safety-gun. No. 1,294,186; Feb. 11; v. 259; p. 314.
- Staver, William, Urbana, Ind. Seed-drill attachment. No. 1,293,568; Feb. 4; v. 259; p. 138.
- St. Marie, Wilbrod G. (See Warren, James A., assignor.)
- Sté, The Dunlop Rubber Co. Limited. (See Macbeth, Allan, assignor.)
- Stead, Ernest, Binghamton, N. Y. Lens-measuring instrument. No. 1,292,121; Jan. 21; v. 258; p. 561.
- Steadman, Walter, et al. (See Pocock, Frank, assignor.)
- Steam Electric Products Company, The. (See Clark, Warren F., assignor.)
- Stearn, Franklin A. (See Lundell and Stearn.)
- Stearns, Hugo, Freeport, N. Y. Millinery-display device. No. 1,302,987; May 6; v. 262; p. 97.
- Stearns, Jason C., Worcester, Mass. Combined tonneau and trouble lamp. No. 1,311,295; July 29; v. 264; p. 735.
- Stearns, Jason C., Worcester, Mass. Spot-light support. No. 1,321,257; Nov. 11; v. 268; p. 233.
- Stearns, Lincoln M., Youngstown, Ohio. File. No. 1,322,642; Nov. 25; v. 268; p. 597.
- Stearns, Marcus C., Buffalo, N. Y. Incendiary bomb. No. 1,305,751; June 3; v. 263; p. 98.
- Stearns, Marcus C., Buffalo, N. Y. Aerial weapon. No. 1,309,156; July 8; v. 264; p. 240.
- Stearns, Marcus C., Chicago, Ill. Cuff-button. No. 1,319,253; Oct. 21; v. 267; p. 391.
- Stevenson, Charles H. (See Morton, Charles M., assignor.)
- Stebbing, Frank, Chicago, Ill. Life-preserver. No. 1,297,270; Mar. 11; v. 260; p. 362.
- Stebbins, Frank H., and W. A. Hopkins, assignors to A. Huhn, Minneapolis, Minn. Clutch for steering-control systems. No. 1,312,708; Aug. 12; v. 265; p. 192.
- Stebbins, William W. (See Reeser and Stebbins.)
- Stebler, Fred, Riverside, Cal. Fruit-cleaner. No. 1,296,130; Mar. 4; v. 260; p. 72.
- Stebler, Fred, Riverside, Cal. Fruit-cleaning machine. No. 1,296,131; Mar. 4; v. 260; p. 73.
- Stebler, Fred, and G. J. Kuehn, Riverside, Cal. Box-handling apparatus. No. 1,290,675; Jan. 7; v. 258; p. 160.
- Stebor, Anthony L., Jr. (See Clark, Lester P., assignor.)
- Stebor, Anthony L., Jr., Plainfield, N. J. Shoe-protector. No. 1,326,542; Dec. 30; v. 269; p. 784.
- Stecker, Alfred J., assignor to F. Wardell, Detroit, Mich. Fan construction. No. 1,325,591; Dec. 23; v. 269; p. 569.
- Stecker, Edmund F. (See Stecker and Schweinfurth.)
- Stecker, Fredrick C., Neenah, C. L. Schweinfurth, Milwaukee, and E. F. Stecker, Menasha, Wis. Awning-edge-holding device. No. 1,326,801; Dec. 30; v. 269; p. 832.
- Stedman, Clifford H. (See Etchells and Stedman.)
- Stedman, H. H., et al. (See Cooper, Benjamin F., assignor.)
- Stedman, Seymour. (See Gardner, Benjamin F., assignor.)
- Stedman, Thomas H., Turfontein, Johannesburg, South Africa. Water-heater and auxiliary oven for stoves. No. 1,313,754; Aug. 19; v. 265; p. 409.
- Stedman, William E., Haywards Heath, England. Air and germ proof cover for sealing bottles. No. 1,299,389; Apr. 1; v. 261; p. 176.
- Stee, Clarence O., and K. H. Kolhede, Cerro del Pasco, Peru. Automatic tempering-machine for tools. No. 1,311,722; July 29; v. 264; p. 815.
- Steed, Robert W., Maplewood, N. J. Toy knitting device. No. 1,291,226; Jan. 14; v. 258; p. 314.
- Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)
- Steel King Motor Plow Company. (See Sintz, Claude, assignor.)
- Steel Products Company, The. (See Chism, Louis W., assignor.)
- Steel Utilities. (See Frelinghuysen and Hawthorne, assignors.)
- Steel Utilities, Incorporated. (See Hawthorne and Pero, assignors.)
- Steel Utilities. (See Payne and Wurts, assignors.)
- Steele, Benjamin M., assignor to Hart Grain Weigher Co., Peoria, Ill. Seeding-machine. No. 1,305,500; June 3; v. 263; p. 51.
- Steele, Charles B., New York, N. Y. Convertible car. No. 1,308,511; July 1; v. 264; p. 92.
- Steele, Charles B., New York, N. Y. Car-underframe. No. 1,315,430; Sept. 9; v. 266; p. 185.
- Steele, Charles B., New York, N. Y. Convertible car. No. 1,320,654; Nov. 4; v. 268; p. 55.
- Steele, Charles B., Philadelphia, Pa., assignor, by mesne assignments, to E. B. Whitcomb, Washington, D. C. Motor-vehicle. (Reissue.) No. 14,768; Dec. 9; v. 269; p. 339.
- Steele, Charles W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tread-forming press. No. 1,291,227; Jan. 14; v. 258; p. 314.
- Steele, Clyde W., assignor to one-half to F. C. McLaughlin, Youngstown, Ohio. Exhaust-heated steering-wheel. No. 1,315,251; Sept. 9; v. 266; p. 152.
- Steele, Daniel B., Seattle, Wash. Resilient tire. No. 1,306,287; June 10; v. 263; p. 231.
- Steele, Edward F., Terre Haute, Ind. Cigar and cigarette holder and stub-ejector. No. 1,313,132; Aug. 12; v. 265; p. 276.
- Steele, Edwin G. (See Sutton and Steele.)
- Steele, Eva, Chicago, Ill. Catamenial appliance. No. 1,300,510; Apr. 15; v. 261; p. 478.
- Steele, Harry A. (See Smith and Steele.)
- Steele, Hugh C. (See Nelson and Steele.)
- Steele, Hugh C., Minneapolis, Minn. Traction-belt. No. 1,313,964; Aug. 26; v. 265; p. 483.
- Steele, Jesse, Roanoke, Va. Railway flagging-canister. No. 1,317,994; Oct. 7; v. 267; p. 64.
- Steele, Jesse, Roanoke, Va. Marker-bracket for railway cars. No. 1,317,995; Oct. 7; v. 267; p. 64.



- Steele, Lawrence C., Beaver, Pa. Catching and packing mechanism. No. 1,305,501; June 3; v. 263; p. 51.
- Steele, Thomas J., Norfolk, Va. Hanger. No. 1,303,409; May 13; v. 262; p. 203.
- Steele, Tom L., Dalhart, Tex. Bridle attachment. No. 1,322,367; Nov. 18; v. 268; p. 493.
- Steele, Walter L. (See Sutton and Steele.)
- Steele, William A., Owensboro, Ky. Grader and ditcher. No. 1,317,601; Sept. 30; v. 266; p. 689.
- Steele, William A., Owensboro, Ky. Grader and ditcher. No. 1,317,602; Sept. 30; v. 266; p. 689.
- Steele, William W., Worcester, Mass. Emery-wheel dresser. No. 1,290,395; Jan. 7; v. 258; p. 91.
- Steelreath, Victor, Basic, Va. Writing instrument. No. 1,307,159; June 17; v. 263; p. 423.
- Steelwhite Company. (See Otte, Otho M., assignor.)
- Steen, Buford J., Goose Creek, Tex. Pipe-wrench. No. 1,322,643; Nov. 25; v. 268; p. 597.
- Steen Combination Lock Company. (See Steen, John I., assignor.)
- Steen, Halfdan A., Milwaukee, Wis., assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Switch. No. 1,309,822; July 15; v. 264; p. 400.
- Steen, John I., assignor to Steen Combination Lock Company, Waukegan, Ill. Lock. No. 1,291,228; Jan. 14; v. 258; p. 314.
- Steen, Louis M., Bisbee, Ariz. Reel. No. 1,301,189; Apr. 22; v. 261; p. 658.
- Steenrod, Hilbert L. (See Buell and Steenrod.)
- Steenrod, Irvin, Montoursville, Pa. Centering device for circular saws. No. 1,313,133; Aug. 12; v. 265; p. 276.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Gas-shell and the like. No. 1,306,641; June 10; v. 263; p. 296.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,313,648; Aug. 19; v. 265; p. 389.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,313,649; Aug. 19; v. 265; p. 390.
- Steere, Clarence E., assignor to Sprague Canning Machinery Company, Chicago, Ill. Blanching-machine. No. 1,290,396; Jan. 7; v. 258; p. 91.
- Steere, Clarence E., assignor to H. Scarborough, Milwaukee, Wis. Endless conveyer. No. 1,298,115; Mar. 25; v. 260; p. 596.
- Steere, Clarence E., assignor to Sprague Canning Machinery Company, Chicago, Ill. Liquid-measuring device. No. 1,298,814; Apr. 1; v. 261; p. 46.
- Steere, William J., Rockwood, Tenn. Attachment for looping-machines. No. 1,292,527; Jan. 28; v. 258; p. 679.
- Steeze, Marcus C., Duluth, Minn. Hydrocarbon-burner. No. 1,296,709; Mar. 11; v. 260; p. 237.
- Stefaniuk, John, assignor of one-third to N. Stefaniuk, Vegreville, Alberta, Canada. Hat-fastener. No. 1,292,528; Jan. 28; v. 258; p. 679.
- Stefaniuk, Nick. (See Stefaniuk, John, assignor.)
- Stefanko, Steve. (See Kaczmarek, Michal, assignor.)
- Stefanski, Marcin, Sterling, Mich. Telescopic bed. No. 1,315,170; Sept. 2; v. 266; p. 127.
- Stefanski, Michael, Detroit, Mich. Resilient tire. No. 1,322,070; Nov. 18; v. 268; p. 436.
- Steffen, Robert O., Elroy, Wis. Woodworking-machine. No. 1,300,892; Apr. 15; v. 261; p. 558.
- Steffens, Fred, St. Joseph, Mo. Entrance and exit control and signal mechanism for street-cars. No. 1,306,786; June 17; v. 263; p. 355.
- Steffens, Fred, St. Joseph, Mo., assignor of one-half to H. L. Doherty, New York, N. Y. Elevated-railway system. No. 1,305,415; June 3; v. 263; p. 35.
- Steffensen, Herbert J., Poy Sippi, Wis. Ball-bearing worm-gear. No. 1,307,462; June 24; v. 263; p. 513.
- Steffes, Peter, Winona, Minn. Door-operating mechanism. No. 1,301,757; Apr. 22; v. 261; p. 768.
- Stege, John, and H. Krause, assignors to A. T. Emerson, New York, N. Y. Automatic stop for sound-reproducing machines. No. 1,315,877; Sept. 9; v. 266; p. 265.
- Stegmeyer, Ernest J., Detroit, Mich. Window-strap clutch. No. 1,307,936; June 24; v. 263; p. 598.
- Steidle, Fred C., Milan, Mich. Telescoping tower. No. 1,325,053; Dec. 16; v. 269; p. 451.
- Steiger, Andrew W., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,299,052; Apr. 1; v. 261; p. 100.
- Steiger, Arnold, and W. Steiger, Zurich, Switzerland. Gas-fired shaft-kiln for burning or roasting non-sintering substances. No. 1,317,603; Sept. 30; v. 266; p. 689.
- Steiger, Emil H. (See Jerrems, Thomas W., assignor.)
- Steiger, Emil H., et al. (See Ellis, James H., assignor.)
- Steiger, Eugen, Zurich, Switzerland. Electric time-switch. No. 1,292,122; Jan. 21; v. 258; p. 561.
- Steiger, Eugen, Zurich, Switzerland. Electric device for automatically turning lights on and off. No. 1,292,123; Jan. 21; v. 258; p. 562.
- Steiger, Jakob, Ebnat-Kappel, Switzerland. Roller-skate. No. 1,314,159; Aug. 26; v. 265; p. 520.
- Steiger, Wilhelm. (See Steiger, Arnold and W.)
- Stehlik, Frank E. (See Swenson and Stehlik.)
- Steimer, Frederick M. (See Atchison and Steimer.)
- Steimmig, Gerhard. (See Holt and Steimmig.)
- Stein, Fred W. (See Sheeks and Stein.)
- Stein, Oscar C., Springfield, Mass. Tag-stringing device. No. 1,325,592; Dec. 23; v. 269; p. 569.
- Stein, Samuel F., Williamsport, Pa. Gas-engine-control means. No. 1,293,569; Feb. 4; v. 259; p. 138.
- Stein, Samuel F., Williamsport, Pa. Motion-picture apparatus. No. 1,307,323; June 17; v. 263; p. 453.
- Stein, Samuel J., Greenwood, Miss. Attachment for pneumatic tires. No. 1,324,702; Dec. 9; v. 269; p. 325.
- Steinbart, Alfred, Pittsburgh, Pa. Gas-burner. No. 1,306,446; June 10; v. 263; p. 260.
- Steinbaugh, John T., Kansas City, Kans. Collar-holder. No. 1,299,255; Apr. 1; v. 261; p. 146.
- Steinberger, Louis, Brooklyn, N. Y. Noiseless, smokeless, rapid-fire gun. No. 1,316,397; Sept. 16; v. 266; p. 376.
- Steinbock, Henry A., et al. (See Muir, David E., assignor.)
- Steinbrueck, John C., Auburn, Wash. Drain-cup for brass wind instruments. No. 1,298,595; Mar. 25; v. 260; p. 699.
- Steinbrunner, Albert. (See Khalil, Seyed, assignor.)
- Steinbuch, Ewald and P. Schetelig, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of acetaldehyde. No. 1,319,365; Oct. 21; v. 267; p. 411.
- Steinen, Otto. (See La Fontaine, George A., assignor.)
- Steiner, Adolph J., and W. A. Kraft, Chicago, Ill. Dispensing device. No. 1,294,187; Feb. 11; v. 259; p. 314.
- Steiner, Jacob, Long Island City, N. Y. Hydrometer apparatus. No. 1,304,115; May 20; v. 262; p. 370.
- Steiner, Leopold, New York, N. Y. Surgical apparatus. No. 1,322,644; Nov. 25; v. 268; p. 597.
- Steiner, Nathan, St. Louis, Mo. Phonograph-cabinet. No. 1,323,331; Dec. 2; v. 269; p. 20.
- Steiner, Sara. (See Garami, Joseph, assignor.)
- Steinert, John A. (See Meyer and Steinert.)
- Steinfeld Bros. (See Gannon, Joseph, assignor.)
- Steinharter, Max, Philadelphia, Pa. Apparatus for stretching and drying leather. No. 1,310,148; July 15; v. 264; p. 460.
- Steinhauer, David, Chicago, Ill. Display-top for boxes. No. 1,314,989; Sept. 2; v. 266; p. 95.
- Steinhauer, George W., Roseburg, Oreg. Automobile attachment. No. 1,309,491; July 8; v. 264; p. 302.
- Steinhausner, August E., Philadelphia, Pa. Bottle-cap remover. No. 1,293,969; Feb. 11; v. 259; p. 262.
- Steinheiser, Clarence G. A., Oil City, Pa. Combined I-beam and rail-clamp. No. 1,299,868; Apr. 8; v. 261; p. 314.
- Steininger, Peter Z., St. Paul, Minn. Wrench. No. 1,316,398; Sept. 16; v. 266; p. 377.
- Steinkoenig, Frederick, assignor of one-half to J. Schulte, Cincinnati, Ohio. Wire-tie-forming tool. No. 1,304,620; May 27; v. 262; p. 506.
- Steinle, William J., Elmhurst Heights, N. Y., assignor to Morgan & Wright. Tire-building machine. No. 1,299,410; Apr. 1; v. 261; p. 180.
- Steinle, William J., Elmhurst Heights, N. Y., assignor to Rubber Regenerating Company. Tubing apparatus. No. 1,320,718; Nov. 4; v. 268; p. 67.
- Steinmasel, Adolf, Red Lodge, Mont. Cable-guide roller. No. 1,321,568; Nov. 11; v. 268; p. 292.
- Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. No. 1,326,005; Dec. 23; v. 269; p. 645.
- Steinmetz, Edwin H. (See Lee and Steinmetz.)
- Steinmetz, Henry C., Pacific Grove, Calif. Repair-hanger for motor-cars. No. 1,316,200; Sept. 16; v. 266; p. 339.
- Steinmetz, Joseph A., Philadelphia, Pa. Making torpedo after-bodies. No. 1,298,815; Apr. 1; v. 261; p. 46.
- Steinmetz, Joseph A., Philadelphia, Pa. Gun-destroying means. No. 1,299,869; Apr. 8; v. 261; p. 314.
- Steinmetz, Joseph A., Philadelphia, Pa. Method and means for destroying submarines. No. 1,325,541; Dec. 23; v. 269; p. 560.
- Steinmetz, Joseph A., Philadelphia, Pa. Protecting vessels in war. No. 1,325,542; Dec. 23; v. 269; p. 560.
- Steinschneider, Leo, Briinn, Austria. Preheater for use in the distillation of petroleum, tar and the like. No. 1,302,988; May 6; v. 262; p. 97.
- Stelckberg, Fred C., assignor of forty one-hundredths to L. G. Clark, Middleton, Wis. Decarbonizer for engines. No. 1,299,805; Apr. 8; v. 261; p. 300.
- Stelmach, Joseph, Gary, Ind. Vehicle-wheel lock. No. 1,319,631; Oct. 21; v. 267; p. 463.
- Steltonis, Baleslavas, Peacock, Mich. Stretcher. No. 1,317,234; Sept. 30; v. 266; p. 618.
- Stelzer, Martin J., St. Louis, Mo. Rocker member. No. 1,295,382; Feb. 25; v. 259; p. 648.
- Stelzer, Martin J., St. Louis, Mo. Agricultural implement. No. 1,324,938; Dec. 16; v. 269; p. 430.
- Stelzner, Hermann, assignor to Drägerwerk, Heine & Bernh. Dräger, Lübeck, Germany. Pressure-chamber for removing drivers' diseases. No. 1,294,188; Feb. 11; v. 259; p. 314.
- Stember, John, New York, N. Y. Lady's pocket-book. No. 1,307,324; June 17; v. 263; p. 454.
- Stenberg, Arvid E., Reed City, Mich. Transmission. No. 1,306,978; June 17; v. 263; p. 391.
- Stender, William, Milwaukee, Wis. Annealing-oven. No. 1,322,735; Nov. 25; v. 268; p. 613.



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- Stengel, Charles, Hamilton, Ohio. Ball-cock. No. 1,314,160; Aug. 26; v. 265; p. 520.
- Stenger, Laurence A., Denver, Colo. Gas-testing machine. No. 1,320,584; Nov. 4; v. 268; p. 43.
- Stenger, Willebald C., Chicago, Ill. Micrometer. No. 1,299,256; Apr. 1; v. 261; p. 146.
- Stenhouse, Thomas, Washington, Pa., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Manufacture of articles of glass. No. 1,297,412; Mar. 18; v. 260; p. 421.
- Stenman, Bror F., assignor to J. H. Lindberg, Worcester, Mass. Electric valve-grinder. No. 1,294,518; Feb. 11; v. 269; p. 344.
- Stenman, Bror F., assignor of one-half to A. W. Larson, Worcester, Mass. Portable valve-grinder. No. 1,300,669; Apr. 15; v. 261; p. 510.
- Stenman Electric Valve Grinder Company. (See Larson, Albert W., assignor.)
- Stenman, Ellis F., assignor to Spring Snap Fastener Company, Lynn, Mass. Fastener. No. 1,326,543; Dec. 30; v. 269; p. 784.
- Stenning, W. W. (See Hampton, Frank H. F., assignor.)
- Stenotype Company, The. (See Bryan, Bailey T., assignor.)
- Stenquist, John L., New York, N. Y. Paper-punch. No. 1,292,124; Jan. 21; v. 258; p. 502.
- Stensgard, Julius J., Woodville, Wis. Automobile-knuckle. No. 1,302,989; May 6; v. 262; p. 97.
- Stensrud, Bernt, assignor to L. M. Petterson, Philadelphia, Pa. Brush. No. 1,314,441; Aug. 26; v. 265; p. 575.
- Stenson, Herbert D., Chelsea, Mass. Poultry-feeder. No. 1,316,117; Sept. 16; v. 266; p. 323.
- Stenwick, Albert O., Red Wing, Minn. Sewer-block. No. 1,326,617; Dec. 30; v. 269; p. 797.
- Stenzel, Arthur W. F., New York, N. Y. Ownership-indicator. No. 1,317,763; Oct. 7; v. 267; p. 20.
- Stenzel, Arthur W. F., New York, N. Y. Screw-machine. No. 1,318,510; Oct. 14; v. 267; p. 224.
- Stenzel, Arthur W. F., New York, N. Y. Characterizing attachment for cameras. No. 1,319,811; Oct. 28; v. 267; p. 520.
- Stepanian, Stephen, Columbus, Ohio. Wrench. No. 1,321,776; Nov. 11; v. 268; p. 332.
- Stepanian, Stephen, Columbus, Ohio. Compound tool. No. 1,321,777; Nov. 11; v. 268; p. 332.
- Stepanoff, Peter, Petrograd, Russia. Automatic powder-measuring device. No. 1,306,447; June 10; v. 263; p. 260.
- Stephan, Paul M., San Francisco, Calif. Full-circle collapsible retread-mold. No. 1,307,798; June 24; v. 263; p. 573.
- Stephany, Ludwig, Sr., Philadelphia, Pa. Non-skidding device. No. 1,292,529; Jan. 28; v. 258; p. 679.
- Stephens-Adamson Manufacturing Company. (See Kendall, Myron A., assignor.)
- Stephens, Andrew J., Kansas City, Mo. Tire-patch curing and shaping device. No. 1,314,714; Sept. 2; v. 266; p. 46.
- Stephens, Anson H., Chicago, Ill., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 1,324,080; Dec. 9; v. 269; p. 206.
- Stephens, Charles, Richmond, Va. Railway signaling. No. 1,316,811; Sept. 23; v. 266; p. 503.
- Stephens, Elwyn T., Springfield, Mass. Method of and apparatus for targeting guns. No. 1,309,429; July 8; v. 264; p. 290.
- Stephens, Harry H., Paterson, N. J. Gyrotory-shaft hanger. No. 1,302,872; May 6; v. 262; p. 75.
- Stephens, Levi T. (See Fitzpatrick and Stephens.)
- Stephens, Robert C., St. Louis, Mo. Lighting-fixture. No. 1,310,149; July 15; v. 264; p. 460.
- Stephens, Sterling, Bushnell, Fla. Irrigating apparatus. No. 1,309,225; July 8; v. 264; p. 252.
- Stephens, Thomas J., Spokane, Wash. Auxiliary tire-valve. No. 1,304,116; May 20; v. 262; p. 370.
- Stephenson, Axel G., and H. H. Barsby, Denver, Colo. Vertically-adjustable platform-truck. No. 1,301,616; Apr. 22; v. 261; p. 739.
- Stephenson, Axel G., Denver, Colo. Truck-brake. No. 1,303,608; May 13; v. 262; p. 239.
- Stephenson, Benjamin F., U. S. Navy. Hair-cutter. No. 1,297,413; Mar. 18; v. 260; p. 421.
- Stephenson, Charles F., Fostoria, Ohio. Antislipping device for vehicle-wheels. No. 1,320,940; Nov. 4; v. 268; p. 110.
- Stephenson, Elonzo. (See Bongio and Stephenson.)
- Stephenson, George H. (See Kiehlgren and Stephenson.)
- Stephenson, Jacob A., Clements, Kans. Tool-handle brace. No. 1,295,628; Feb. 25; v. 259; p. 705.
- Stephenson, Leigh J., Chicago, Ill. Dynamo-electric machinery. No. 1,322,471; Nov. 18; v. 268; p. 513.
- Stephenson, Leigh J., assignor to Woods Motor Vehicle Company, Chicago, Ill. Motor-vehicle. No. 1,323,500; Dec. 2; v. 269; p. 52.
- Stephenson, Thomas B., Forestville, assignor of one-half to F. S. Trumbull, Bridgeport, Conn. Machine for casting bullets, &c. No. 1,319,672; Oct. 21; v. 267; p. 470.
- Stephenson, Thomas B., Forestville, assignor of one-half to F. S. Trumbull, Bridgeport, Conn. Bullet-casting machine. No. 1,319,673; Oct. 21; v. 267; p. 471.
- Stephenson, Thomas B., Forestville, assignor of one-half to F. S. Trumbull, Bridgeport, Conn. Bullet-casting machine. No. 1,319,674; Oct. 21; v. 267; p. 471.
- Stephenson, William C., Rocky Mount, N. C. Tool-holder. No. 1,314,911; Sept. 2; v. 266; p. 81.
- Stephenson, William C., Woburn, Mass., assignor to Vose & Sons Piano Company. Valve structure. No. 1,305,976; June 3; v. 263; p. 142.
- Stephenson, William M., Dallas, Tex. Hydrostatic control for pumps. No. 1,290,397; Jan. 7; v. 258; p. 92.
- Sterbenz, Joseph, Nashua, Minn. Animal-trap. No. 1,307,703; June 24; v. 263; p. 567.
- Sterhardt, Emery, New York, N. Y. Tent. No. 1,326,006; Dec. 23; v. 269; p. 645.
- Sterling, Edward C., Chicago, Ill. Drain-cleaner for refrigerator-cars. No. 1,297,414; Mar. 18; v. 260; p. 422.
- Sterling Electrical Corporation, The. (See Longorio, Antonio, assignor.)
- Sterling Electrical Corporation Company, The. (See Longoria, Antonio, assignor.)
- Sterling Engine Company. (See Larkin, Elwood T., assignor.)
- Sterling, Montagu M. (See Carter, Charles H., assignor.)
- Sterling Motor Car Co. (See Marsh, Alonzo R., L. B., and W. T., assignors.)
- Stern, Arnold, Hollis, N. Y. Embroidery-mount. No. 1,301,758; Apr. 22; v. 261; p. 768.
- Stern-Coleman Diamond Machine Company. (See Coleman, Clyde J., assignor.)
- Stern-Coleman Diamond Machine Co. (See Mantle, Joseph C. C., assignor.)
- Stern, Harry A., New York, N. Y. Match-packet. No. 1,320,287; Oct. 28; v. 267; p. 608.
- Stern, Harry H., Moscow, Idaho. Tire. No. 1,313,424; Aug. 19; v. 265; p. 347.
- Stern, Herman C., Waukesha, Wis. Ash-sifter. No. 1,308,963; July 8; v. 264; p. 203.
- Stern, John, New York, N. Y. Underwaist. No. 1,315,350; Sept. 9; v. 266; p. 170.
- Stern, Louis J., Boston, Mass. Distance-indicator. No. 1,311,253; July 29; v. 264; p. 727.
- Stern, Marcus. (See Kralund and Stern.)
- Stern, Marcus. (See Kralund, Duckworth, and Stern.)
- Stern, Robert. (See Drissner, Glosch, Henn, Smith, and Stern.)
- Stern, William, et al. (See Addison, Simon L., assignor.)
- Sterns, Edward, St. Louis, Mo., assignor, by mesne assignments, to Surety Tire & Rubber Company, Wilmington, Del. Vehicle-tire employing an inner tube. No. 1,324,282; Dec. 9; v. 269; p. 244.
- Sterry, Earl M., Ruford, Colo. Plowing-machine. No. 1,309,969; July 15; v. 264; p. 428.
- Sterzing, Albert A. E., New York, N. Y. Dynamo-electric machine. No. 1,299,053; Apr. 1; v. 261; p. 100.
- Stets, Oscar C. (See Keil, Otto W., assignor.)
- Stetson, Franklin F. (See Wilson and Sumner, assignors.)
- Stetz, John. (See Bukowski, Bogumil, assignor.)
- Stewart, James N., Bayswater, London, assignor to G. Beaton & Son Limited, Holland Park, London, England. Percussion-fuse. No. 1,299,054; Apr. 1; v. 261; p. 101.
- Stoude, Ernst, Los Angeles, Calif. Concrete construction. No. 1,316,812; Sept. 23; v. 266; p. 503.
- Steuer, Gustav H., Chicago, Ill. Automatic closet-valve. No. 1,322,645; Nov. 25; v. 268; p. 597.
- Steven, Ian H., Toronto, Ontario, Canada. Combined electric-fixture support-coupling and electric connector therefor. No. 1,323,114; Nov. 25; v. 268; p. 685.
- Stevenor, Gust. Jr., St. David, Ill. Combined mud-guard and sled-runner. No. 1,291,229; Jan. 14; v. 258; p. 315.
- Stevenot, Louis N., Oakland, assignor of one-third to E. V. Golly, Berkeley, and one-third to S. G. Bacigalupi, San Francisco, Calif. Trailer attachment. No. 1,325,867; Dec. 23; v. 269; p. 620.
- Stevens, Arthur L., assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Gas-washing apparatus. No. 1,292,125; Jan. 21; v. 258; p. 562.
- Stevens, Arthur L., Chicago, Ill. Regenerative furnace. No. 1,292,126; Jan. 21; v. 258; p. 562.
- Stevens, Arthur L., Chicago, Ill. Furnace. No. 1,315,252; Sept. 9; v. 266; p. 152.
- Stevens, Augustus R., assignor of one-half to F. Tucker, Lindsay, Cal. Fruit-grader. No. 1,296,564; Mar. 4; v. 260; p. 167.
- Stevens-Aylsworth Company. (See Stevens, William N., assignor.)
- Stevens, Burt D. (See Henderson and Stevens.)
- Stevens, Burt D., Riverside, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-registering mechanism. No. 1,292,968; Jan. 28; v. 258; p. 784.
- Stevens, C. Amory. (See Collins, Caleb G., assignor.)
- Stevens, Charles W., administrator. (See Dodge, Otis W., assignor.)
- Stevens, Clarence E., West Haven, Conn. Light-shield. No. 1,316,654; Sept. 23; v. 266; p. 474.
- Stevens and Company. (See Stevens, Frederick A., assignor.)
- Stevens, Elbridge W., Baltimore, Md. Spark-plug. No. 1,292,661; Jan. 28; v. 258; p. 712.



- Stevens, Enoch P., Chicago, Ill. Hanging-arch construction. No. 1,317,460; Sept. 30; v. 266; p. 661.
- Stevens, Esther, La Harpe, Ill. Evaporator. No. 1,300,670; Apr. 15; v. 261; p. 511.
- Stevens Fan Devices Company. (See Power, Jeffrey J., assignor.)
- Stevens, Floyd C., Buffalo, N. Y. Fire-extinguisher for motion-picture-projecting machines. No. 1,321,679; Nov. 11; v. 268; p. 313.
- Stevens, Frank, Philadelphia, Pa. Liquid-fuel burner. No. 1,322,269; Nov. 18; v. 268; p. 474.
- Stevens, Frank, Philadelphia, Pa. Liquid-fuel burner. No. 1,326,146; Dec. 23; v. 269; p. 671.
- Stevens, Frank E., assignor to The Lattimer-Stevens Company, Columbus, Ohio. Gas-meter-connecting device. No. 1,298,596; Mar. 25; v. 260; p. 699.
- Stevens, Frank M. (See Guntton, Fred L., assignor.)
- Stevens, Frederick A., Providence, R. I., assignor to Stevens and Company, Incorporated. Ophthalmic mounting. No. 1,293,232; Feb. 4; v. 259; p. 59.
- Stevens, Frederick A., Providence, R. I., assignor to Stevens and Company, Incorporated. Ophthalmic mounting. No. 1,308,964; July 8; v. 264; p. 204.
- Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Ophthalmic mounting. No. 1,320,655; Nov. 4; v. 268; p. 55.
- Stevens, George E., Lynn, Mass., assignor to General Electric Company. Manufacturing cylindrical magnet frames and the like. No. 1,297,271; Mar. 11; v. 260; p. 362.
- Stevens, George L., Long Beach, Calif. Spoon-holder. No. 1,323,924; Dec. 2; v. 269; p. 132.
- Stevens, John C., Portland, Oreg. Recording water-gage. No. 1,303,126; May 6; v. 262; p. 124.
- Stevens, Leslie, Glen Ridge, N. J. Apparatus for shaping hat-crowns. No. 1,316,813; Sept. 23; v. 266; p. 503.
- Stevens, Harry A., Aurora, Ill. Oat-sprouter. No. 1,290,398; Jan. 7; v. 258; p. 92.
- Stevens, Henry A. (See Kools and Stevens.)
- Stevens, Henry C. (See Bauer, Otto V., assignor.)
- Stevens, Henry E., Jr. (See Evans, Fred, assignor.)
- Stevens, Henry R. (See McClure, Stevens, and Boulton.)
- Stevens, Herbert C. M. (See Catalan and Stevens.)
- Stevens, John E., and W. Thackeray, Jr., Kewanee, Ill. Blind-plowing attachment for planters. No. 1,303,222; May 6; v. 262; p. 223.
- Stevens, John W., St. Paul, Minn. Carbureter. No. 1,304,715; May 27; v. 262; p. 523.
- Stevens, Levi, Alpena, Mich. Process and apparatus for cooling cement-kiln gases and the recovery of dust therefrom. No. 1,315,254; Sept. 9; v. 266; p. 153.
- Stevens, Murrell A., Rutland, Vt. Dental implement. No. 1,290,399; Jan. 7; v. 258; p. 92.
- Stevens, Murrell A., Rutland, Vt. Emergency-brake. No. 1,290,400; Jan. 7; v. 258; p. 93.
- Stevens Partition & Floor Deadener Co. (See Murphy, Everett N., assignor.)
- Stevens, Philip, Adams township, Lucas county, Ohio. Mixer. No. 1,293,570; Feb. 4; v. 259; p. 139.
- Stevens, Robert C., Erie, Pa. Steam-heated piston. No. 1,312,285; Aug. 5; v. 265; p. 80.
- Stevens, Robert C., assignor to Skinner Engine Company, Erie, Pa. Means for heating the pistons of steam-engines. No. 1,315,253; Sept. 9; v. 266; p. 153.
- Stevens, Royale H. (See Gepp, Avery, Stevens, Snow, and Whitecotton.)
- Stevens, Royale H., Risdon, Hobart, Tasmania, assignor to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Recovery of zinc by electrolysis. No. 1,322,071; Nov. 18; v. 268; p. 436.
- Stevens, Sylvester G., Duluth, Minn. Differential coupling. No. 1,312,709; Aug. 12; v. 265; p. 192.
- Stevens, William C., Summit, N. J., and N. L. Mortenson, Milwaukee, Wis. Motor-controller. No. 1,318,620; Oct. 14; v. 267; p. 244.
- Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Gear-shift controller. No. 1,299,257; Apr. 1; v. 261; p. 146.
- Stevens, William C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Selvage-trimmer. No. 1,306,642; June 10; v. 263; p. 296.
- Stevens, William H., New York, N. Y. Garter. No. 1,313,923; Aug. 26; v. 265; p. 475.
- Stevens, William H., Altoona, Pa. Apparatus for using powdered fuel. No. 1,316,399; Sept. 16; v. 266; p. 377.
- Stevens, William H., Altoona, Pa. Apparatus for using powdered fuel. No. 1,324,081; Dec. 9; v. 269; p. 206.
- Stevens, William N., Brooklyn, assignor to Stevens-Aylsworth Company, New York, N. Y. Mixing-machine. No. 1,292,127; Jan. 21; v. 258; p. 563.
- Stevens, William N., Brooklyn, assignor to Stevens-Aylsworth Company, New York, N. Y. Continuously-operating drier. No. 1,303,982; May 20; v. 262; p. 346.
- Stevenson, Archibald E., et al. (See Marvin, Charles R., Jr., assignor.)
- Stevenson, Benjamin H., Alliance, Ohio. Toy rocker. No. 1,302,238; Apr. 29; v. 261; p. 889.
- Stevenson, Charles M., Chicago, Ill. Power attachment for motor-vehicles. No. 1,306,448; June 10; v. 263; p. 261.
- Stevenson, Charles M., Rockford, Ill., assignor to Iowa Gate Company, Cedar Falls, Iowa. Stall connection or the like. No. 1,315,351; Sept. 9; v. 266; p. 171.
- Stevenson, Charles R., assignor to National Veneer Products Company, Mishawaka, Ind. Track for trunks. No. 1,303,983; May 20; v. 262; p. 346.
- Stevenson, Frank M. (See Drake and Stevenson.)
- Stevenson, Frank M., assignor to The Petroleum Iron Works Company, Sharon, Pa. Band-anchor for tank-cars. No. 1,319,632; Oct. 21; v. 267; p. 463.
- Stevenson, Frederick A., Detroit, Mich., assignor to American Car and Foundry Company, St. Louis, Mo. Machine for punching armor-plates. No. 1,318,023; Oct. 7; v. 267; p. 69.
- Stevenson, George H. (See Crawford and Stevenson.)
- Stevenson, George J., East Liverpool, Ohio. Drying apparatus. No. 1,322,209; Nov. 18; v. 268; p. 463.
- Stevenson, James W., Riverside, Cal. Fruit conveyor and drier. No. 1,292,128; Jan. 21; v. 258; p. 563.
- Stevenson, John J., assignor of one-half to A. M. Larsen, Muskegon, Mich. Plant-protector. No. 1,299,870; Apr. 8; v. 261; p. 314.
- Stevenson, Minerva G., Orange Lake, Fla. Mattress. No. 1,306,787; June 17; v. 263; p. 355.
- Stevenson, Samuel B., San Francisco, Calif. Rotary engine—explosive type. No. 1,319,932; Oct. 28; v. 267; p. 542.
- Stevenson, Wade, et al. (See Lobar, Abraham J., assignor.)
- Stevenson, Wilbur W., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Burner for gas-furnaces. No. 1,298,817; Apr. 1; v. 261; p. 47.
- Stevenson, Wilfred C. (See McCaig and Stevenson.)
- Stevenson, William D., Pittsburgh, Pa. Composite article including phenol and formaldehyde and making same. No. 1,295,230; Feb. 25; v. 259; p. 614.
- Stevenson, William D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rotatable machine element. No. 1,298,816; Apr. 1; v. 261; p. 47.
- Stevenson, William G., Chicago, Ill. Grinding-mill. No. 1,316,859; Sept. 23; v. 266; p. 511.
- Stevenson, William G., Chicago, Ill. Grinding-machine. No. 1,316,860; Sept. 23; v. 266; p. 511.
- Stevenson, William M., assignor to Bozart Rug Company, Springfield, Mass. Woven fabric. No. 1,325,337; Dec. 16; v. 269; p. 505.
- Stevenson, Donald C. (See Rintoul and Stevenson.)
- Stever, Guy, Akron, Ohio. Tire. No. 1,314,764; Sept. 2; v. 266; p. 54.
- Steward Davit and Equipment Corporation. (See Hills, Harry B., assignor.)
- Stewart, Adam, Los Angeles, Calif. Saw-filer. No. 1,314,912; Sept. 2; v. 266; p. 81.
- Stewart, Albert E., Franklin, N. H., assignor to Acme Knitting Machine and Needle Company. Knitting-machine. No. 1,315,725; Sept. 9; v. 266; p. 237.
- Stewart, Alexander, assignor to Topp-Stewart Tractor Co., Clintonville, Wis. Power steering mechanism. No. 1,306,030; June 10; v. 263; p. 181.
- Stewart, Alexander M., Mount Vernon, assignor to Thos. Lemming & Co., New York, N. Y. Inhaling device. No. 1,326,890; Dec. 30; v. 269; p. 849.
- Stewart, Alonzo L. (See Elliott, Alexander T., assignor.)
- Stewart, Andrew M., assignor to The National Supply Company, Toledo, Ohio. Pumping system. No. 1,318,117; Oct. 7; v. 267; p. 86.
- Stewart, Angus, Jerome, Idaho. Timeniece. No. 1,310,038; July 15; v. 264; p. 440.
- Stewart, Arthur L., assignor to Gleason Works, Rochester, N. Y. Gear-cutting machinery. No. 1,324,475; Dec. 9; v. 269; p. 282.
- Stewart, Arthur L., and F. E. McMullen, assignors to Gleason Works, Rochester, N. Y. Gearing. No. 1,295,231; Feb. 25; v. 259; p. 614.
- Stewart, R. E. (See Ethridge, Frederick M., assignor.)
- Stewart, Benjamin, Erie, Pa. Pneumatic arch and heel support. No. 1,313,924; Aug. 26; v. 265; p. 475.
- Stewart, Burdick A., Pittsfield, Mass. Sectional plastic step. No. 1,293,233; Feb. 4; v. 259; p. 59.
- Stewart, Carlton D. (See Weeks and Stewart.)
- Stewart, Carlton D., and S. G. Down, Berkeley, Cal. Fire and draft regulating system. No. 1,295,077; Feb. 18; v. 259; p. 555.
- Stewart, Carlton D., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Fuel-oil-regulating system. No. 1,314,161; Aug. 26; v. 265; p. 520.
- Stewart, Charles F., and E. N. Dickerson, Kingston, N. C. Clamping device for heading-machines. No. 1,297,927; Mar. 18; v. 260; p. 531.
- Stewart, Charles P., Walla Walla, Wash. Decortivating-machine. No. 1,308,267; July 1; v. 264; p. 48.
- Stewart, Claude W., Martinsburg, W. Va. Vacuum cleaning device. No. 1,323,925; Dec. 2; v. 269; p. 132.
- Stewart, Claude W., Martinsburg, W. Va. Vacuum-sweeper. No. 1,324,416; Dec. 9; v. 269; p. 270.
- Stewart, David S., Appleton, assignor to Antigo Tractor Co., Antigo, Wis. Four-wheel steering-gear. No. 1,323,653; Dec. 2; v. 269; p. 80.



## Alphabetical list of patentees—Continued.

- Stewart, David S., Appleton, assignor to Antigo Tractor Co., Antigo, Wis. Road-gripping device for tractor-wheels. No. 1,323,654; Dec. 2; v. 269; p. 81.
- Stewart, Donald, Waterloo, Iowa. Cabinet. No. 1,295,232; Feb. 25; v. 259; p. 614.
- Stewart, Earl, Des Moines, Iowa. Cultivator attachment. No. 1,301,520; Apr. 22; v. 261; p. 722.
- Stewart, Elmer B., Brooklyn, N. Y. Portable oven and heating-drum. No. 1,295,233; Feb. 25; v. 259; p. 614.
- Stewart, Ernest L., La Veta, Colo. Incubator thermo-static control. No. 1,311,098; July 22; v. 264; p. 666.
- Stewart, Frank H., Elkins Park, Pa. Woven web and production of same. No. 1,324,627; Dec. 9; v. 269; p. 311.
- Stewart, Fred A., *et al.* (See Christian, Thomas A., as signor.)
- Stewart, Frederick W., Beaver, Pa. Glass-blowing machine. No. 1,294,319; Feb. 11; v. 259; p. 344.
- Stewart, George A. (See Keiley and Stewart.)
- Stewart, Gertrude F. (See Stewart, Perez M., assignor.)
- Stewart, Harry J., and R. C. McGrath, Ottawa, Ontario, Canada. Car-ticket holder. No. 1,305,020; May 27; v. 262; p. 580.
- Stewart, James A. (See Simpson and Stewart.)
- Stewart, John H. (See Bailey and Stewart.)
- Stewart, John H., New York, N. Y. Hanger for sliding doors. No. 1,305,021; May 27; v. 262; p. 580.
- Stewart, John S., Lockhart, Ala. Ship-coaling device. No. 1,320,368; Oct. 28; v. 267; p. 623.
- Stewart, Joseph B., Winnipeg, Manitoba, Canada. Pedal. No. 1,320,585; Nov. 4; v. 268; p. 43.
- Stewart, Kenneth D., Youngstown, Ohio. Clip for reinforcing-bars for concrete construction-work. No. 1,306,129; June 10; v. 263; p. 199.
- Stewart, Lewis L., New York, N. Y. Radiator-shield. No. 1,295,629; Feb. 25; v. 259; p. 706.
- Stewart, Lyman C., assignor of one-half to M. A. Quinn, Roanoke, Va. Brake-lining. No. 1,292,530; Jan. 28; v. 258; p. 679.
- Stewart, Millet S., Lower Neguac, New Brunswick, Canada. Removable ax-bit. No. 1,292,531; Jan. 28; v. 258; p. 680.
- Stewart, Patrick A., *et al.*, administrators. (See Tripp and Ramsay.)
- Stewart, Perez M., assignor to G. F. Stewart, New York, N. Y. Composite slab for building purposes. No. 1,308,306; July 1; v. 264; p. 55.
- Stewart, Reid T., Pittsburgh, Pa. Fuel-supply system for internal-combustion engines. No. 1,313,925; Aug. 26; v. 265; p. 475.
- Stewart, Robert H., Vancouver, S. G. Blaylock, R. Vaughan, and J. K. Batchelder, Trail, British Columbia, Canada. Extraction of zinc. No. 1,320,805; Nov. 4; v. 268; p. 84.
- Stewart, Robert J., Chillicothe, Mo. Shock-absorber. No. 1,320,288; Oct. 28; v. 267; p. 608.
- Stewart, Robert P., Burwood, Sydney, New South Wales, Australia. Apparatus for cutting iron pipes *in situ*. No. 1,301,759; Apr. 22; v. 261; p. 768.
- Stewart, Sanford O., St. Louis, Mo. Aeroplane-stabilizer. No. 1,314,027; Aug. 26; v. 265; p. 495.
- Stewart, Sylvester N., Marietta, Ohio. Wicket or arch for playing croquet and the like. No. 1,299,055; Apr. 1; v. 261; p. 101.
- Stewart, Sylvester N., Marietta, Ohio. Cadre or juggler's frame. No. 1,299,056; Apr. 1; v. 261; p. 101.
- Stewart, Walter A., assignor to Smith's Falls Malleable Castings Company, Limited, Smith's Falls, Ontario, Canada. Device for preventing the creeping of railway-rails. No. 1,303,515; May 13; v. 262; p. 222.
- Stewart-Warner Speedometer Corporation. (See Berg Joseph, assignor.)
- Stewart-Warner Speedometer Corporation. (See Duffy Thomas I., assignor.)
- Stewart-Warner Speedometer Corporation, *et al.* (See Edwards, William A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Genn John E., assignor.)
- Stewart-Warner Speedometer Corporation. (See John ston, Donald F., assignor.)
- Stewart-Warner Speedometer Corporation. (See Muzzy, William H., assignor.)
- Stewart-Warner Speedometer Corporation. (See Van Guilder, Walter, assignor.)
- Stewart-Warner Speedometer Corporation. (See Whittington, Frederick G., assignor.)
- Stewart, Wilber F. (See Hamm and Stewart.)
- Stewart, William, West Kogarah, New South Wales, Australia. Electric plug and socket connection. No. 1,303,609; May 13; v. 262; p. 239.
- Stewart, William A., San Francisco, Cal. Receptacle. No. 1,290,401; Jan. 7; v. 258; p. 93.
- Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-flexing machine. No. 1,297,605; Mar. 18; v. 260; p. 462.
- Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-locating device. No. 1,315,171; Sept. 2; v. 266; p. 127.
- Stewart, William J. (See Linden, Lucien, assignor.)
- Stewart, William M., Milwaukee, Wis., assignor of one-half to A. G. Showers, St. Louis, Mo. Tank connection. No. 1,319,124; Oct. 21; v. 267; p. 365.
- Stibbe, Godfrey, Leicester, England. Knitted glove and producing same. No. 1,292,129; Jan. 21; v. 258; p. 563.
- Sticht, Herman H., Woodhaven, N. Y., and K. G. Frank, Wyoming, N. J., assignors to American Precision Works, New York, N. Y. Electrical vibrator, particularly for tachometers. No. 1,315,646; Sept. 9; v. 266; p. 222.
- Stickel, Frederick, Chicago, Ill. Oscillatory water-motor. No. 1,306,863; June 17; v. 263; p. 369.
- Stickels, George, Astoria, N. Y. Signal-control apparatus. No. 1,293,970; Feb. 11; v. 259; p. 262.
- Stickney, Burnham C. (See Thomas and Stickney.)
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,293,234; Feb. 4; v. 259; p. 59.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,293,235; Feb. 4; v. 259; p. 60.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,316,814; Sept. 23; v. 266; p. 504.
- Stickney, Burnham C., Elizabeth, N. J., and A. A. Johnson, assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,295,383; Feb. 25; v. 259; p. 648.
- Stickney, Charles A., Chattanooga, Tenn., assignor to Addressograph Company, Chicago, Ill. Embossing-die. No. 1,299,518; Apr. 8; v. 261; p. 233.
- Stickney, Charles A., Chattanooga, Tenn., assignor to Addressograph Company, Chicago, Ill. Punch and die for embossing characters and raising bosses therefor previous to the embossing actions. No. 1,301,333; Apr. 22; v. 261; p. 687.
- Stickney, Charles L., Skull Valley, Ariz. Expansion-drill. No. 1,311,022; July 22; v. 264; p. 652.
- Stickney, Clement R., Detroit, Mich. Upholstery spring construction. No. 1,299,871; Apr. 8; v. 261; p. 314.
- Stickrath, Daniel C., Omaha, Neb. Portable street-signaling device. No. 1,315,049; Sept. 2; v. 266; p. 106.
- Stidham, Charles L. and J. S. Washburn, Gravois Mills, Mo. Fence-staple. No. 1,295,811; Feb. 25; v. 259; p. 748.
- Stiegelmeier, John E., Indianapolis, Ind. Automatic brake-applying safety-valve. No. 1,306,504; June 10; v. 263; p. 271.
- Stiers, Harry, Seattle, Wash. Spring-mounting for vehicles. No. 1,301,016; Apr. 15; v. 261; p. 585.
- Stifel, Herman C. (See Hachmann, Frederick, assignor.)
- Stiff, Gilbert W., Ovid, Mich. Door-latch. No. 1,302,873; May 6; v. 262; p. 75.
- Stiff, Henry C., Johnstown, Pa. Switch construction. No. 1,299,806; Apr. 8; v. 261; p. 300.
- Stiger, Charles W., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. No. 1,306,031; June 10; v. 263; p. 181.
- Stigleman, Everett, Richmond, Ind. Automobile-lock. No. 1,293,236; Feb. 4; v. 259; p. 60.
- Stiles, Charles L., Columbus, Ohio. Feed-gage for printing-presses. No. 1,321,569; Nov. 11; v. 268; p. 292.
- Stiles, Charles L., Columbus, Ohio. Leg-band for poultry, birds, &c. No. 1,321,570; Nov. 11; v. 268; p. 293.
- Stiles, Edward M., Mount Pleasant, Iowa. Self-serving store. No. 1,321,571; Nov. 11; v. 268; p. 293.
- Stiles, Edward M., Mount Pleasant, Iowa, assignor to U. S. Slicing Machine Company, Laporte, Ind. Stacker for slicing-machines. No. 1,290,402; Jan. 7; v. 258; p. 93.
- Stiles, Edward M., Mount Pleasant, Iowa, assignor to U. S. Slicing Machine Company, Laporte, Ind. Work-holder for slicing-machines. No. 1,294,561; Feb. 18; v. 259; p. 436.
- Stiles, Edward M., Mount Pleasant, Iowa, assignor to U. S. Slicing Machine Company, Laporte, Ind. Holder for slicing-machines. No. 1,294,562; Feb. 18; v. 259; p. 436.
- Stiles, Edward M., Mount Pleasant, Iowa, assignor to U. S. Slicing Machine Company, Laporte, Ind. Slice-collector. No. 1,324,214; Dec. 9; v. 269; p. 231.
- Stiles, Linford S., Brooklyn, assignor of one-fourth to J. J. Kuhn, New York, N. Y. Cinematograph. No. 1,308,875; July 8; v. 264; p. 187.
- Stiles, Luster, Jr., Evansville, Ind. Tube-cleaner. No. 1,325,543; Dec. 23; v. 269; p. 560.
- Stiles, Otho W., Washington, D. C. Pen and pencil attachment. No. 1,310,257; July 15; v. 264; p. 480.
- Still, Howard W., Fargo, N. D. Box. No. 1,300,671; Apr. 15; v. 261; p. 511.
- Still, William J., London, England. Internal-combustion engine. No. 1,306,979; June 17; v. 263; p. 391.
- Still, William J., London, England. Cylinder of internal-combustion engines. No. 1,316,749; Sept. 23; v. 266; p. 492.
- Still, William J., London, England. Piston of internal-combustion engines. No. 1,323,115; Nov. 25; v. 268; p. 656.



- Still, William J., London, England. Multicylinder internal-combustion engine. No. 1,324,183; Dec. 9; v. 269; p. 225.
- Stilling, William J., Elmhurst, N. Y. Window construction. No. 1,294,189; Feb. 11; v. 259; p. 314.
- Stillwagon, John H., assignor to Auto Slyde & Moving Picture Machine Co., Inc., New York, N. Y. Stereopticon apparatus. No. 1,298,417; Mar. 25; v. 260; p. 660.
- Stillwagon, John H. K., assignor to Auto Slyde & Moving Picture Machine Co., Inc., New York, N. Y. Moving-picture machine. No. 1,317,996; Oct. 7; v. 267; p. 64.
- Stilson, Herbert A., assignor to H. F. Treuk, Dubuque, Iowa. Device for supporting wheel-tires. No. 1,311,578; July 29; v. 264; p. 788.
- Stilwell, Wilson H. (See Clough, Stilwell, and Fugina.)
- Stiman, Fred, Herrin, Ill. Switch. No. 1,325,420; Dec. 16; v. 269; p. 519.
- Stimmel, Frederick C., assignor to Casey-Hedges Co., Chattanooga, Tenn. Superheater. No. 1,322,368; Nov. 18; v. 268; p. 493.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling-catcher for looms. No. 1,308,202; July 1; v. 264; p. 36.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,309,226; July 8; v. 264; p. 253.
- Stimpson, Edward S., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,313,349; Aug. 19; v. 265; p. 333.
- Stimpson, Edward S., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,313,350; Aug. 19; v. 265; p. 333.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,325,216; Dec. 16; v. 269; p. 482.
- Stimson, Ralph J., Rogersville, Mich. Tractor. No. 1,293,971; Feb. 11; v. 259; p. 262.
- Stindt, Frederick L. A., assignor to Hodgman Rubber Co., Tuckahoe, N. Y. Core-pulling machine. No. 1,320,289; Oct. 28; v. 267; p. 609.
- Stine, Charles M., Woodbury, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing explosive compounds and products thereof. No. 1,309,551; July 8; v. 264; p. 313.
- Stine, Charles M., Woodbury, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Blasting-cap charge. No. 1,309,552; July 8; v. 264; p. 314.
- Stine, Charles M., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing explosive compounds and product thereof. No. 1,311,926; Aug. 5; v. 265; p. 14.
- Stine, Charles M., Chester, Pa., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Composition for detonators. No. 1,313,650; Aug. 19; v. 265; p. 390.
- Stine, George R., Oakland, assignor of one-half to J. S. Day, San Francisco, Cal. Folding camp table and seat. No. 1,296,266; Mar. 4; v. 260; p. 118.
- Stineman, William H. H., Baltimore, Md. Fender for self-propelled vehicles. No. 1,292,130; Jan. 21; v. 258; p. 564.
- Stinson, Charles H., Watertown, S. D. Tractor. No. 1,321,258; Nov. 11; v. 268; p. 233.
- Stirckler, Frank B., Boston, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,318,303; Oct. 7; v. 267; p. 123.
- Stirling, Clarence C., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,314,098; Aug. 26; v. 265; p. 508.
- Stirling, Clarence C., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Snap-switch. No. 1,306,360; June 10; v. 263; p. 245.
- Stirling, John, Grabow, La. Plow attachment. No. 1,313,611; Aug. 19; v. 265; p. 383.
- Stirton, Frank S., Springfield, Ontario, Canada. Aeroplane. No. 1,297,032; Mar. 11; v. 260; p. 311.
- Stith, Robert A., Brooklyn, N. Y. Holder for desk-calendars. No. 1,320,656; Nov. 4; v. 268; p. 55.
- Stitzel, Frederick, Louisville, Ky. Indicator. No. 1,291,230; Jan. 14; v. 258; p. 315.
- Stitzer, Ralph B., and H. E. Sovereign, Brooklyn, N. Y. Metering system. No. 1,299,632; Apr. 8; v. 261; p. 259.
- Stoble, Victor, Dunston-upon-Tyne, England. Electric heating and melting furnace. No. 1,305,177; May 27; v. 262; p. 609.
- Stock, Albert. (See Mundy and Stock.)
- Stock, Henry W. (See Ver Planck and Stock.)
- Stock, Henry W., Erie, Pa., assignor to General Electric Company. Locomotive. No. 1,312,216; Aug. 5; v. 265; p. 68.
- Stock Motorflug Gesellschaft mit beschränkter Haftung. (See Gleiche, Carl, assignor.)
- Stock, Walter. (See Hedrick and Stock.) (Reissue.)
- Stockbridge Machine Company. (See Kuniholm, Hugo M., assignor.)
- Stockdale, Fairbank B., Brooklyn, N. Y., and H. A. Simpson, Ocean Grove, N. J. Power-storing mechanism. No. 1,311,190; July 29; v. 264; p. 716.
- Stocking, Edgar B., deceased, Washington, D. C.; S. C. Stocking, executrix. Reverse power-actuated release for clothes-wringers. No. 1,322,369; Nov. 18; v. 268; p. 493.
- Stocking, Fanny H., and W. M. Farrow, Sr., Washington, D. C. Arm-operated brake control. No. 1,326,377; Dec. 30; v. 269; p. 751.
- Stocking, Sarah C., executrix. (See Stocking, Edgar B.)
- Stockinger, Rude, Manitowoc, Wis. Electric vibrator. No. 1,315,612; Sept. 9; v. 266; p. 217.
- Stockman, Henry. (See Stockman, Henry C., assignor.)
- Stockman, Henry C., New York, N. Y., assignor of one-half to H. Stockman, Englewood, N. J. Leather-cutting die and making shapes. No. 1,309,157; July 8; v. 264; p. 241.
- Stockman, James S., Brooklyn, N. Y. Marine craft. No. 1,310,809; July 22; v. 264; p. 613.
- Stocks, Harry B., Stockport, England. Scooter. No. 1,313,134; Aug. 12; v. 265; p. 277.
- Stocks, Harry B., Stockport, England. Scooter. No. 1,315,878; Sept. 9; v. 266; p. 265.
- Stocks, James C., Atlanta, Ga. Manufacturing packing-rings. No. 1,315,798; Sept. 9; v. 266; p. 250.
- Stockstill, Herman A., Toledo, Ohio, assignor of one-half to T. L. Gifford. Metal tie. No. 1,308,203; July 1; v. 264; p. 36.
- Stockton, Frank W., Pittsburgh, Pa., assignor to East St. Louis Cotton Oil Company, National Stock Yards, Ill. Purifying cotton-seed-hull fiber. No. 1,295,078; Feb. 18; v. 259; p. 555.
- Stockton, Thomas J., Burke, Va. Stock-feeding device. No. 1,293,972; Feb. 11; v. 259; p. 263.
- Stockwell, Ivan A., assignor to The Norwalk Auto Parts Company, Norwalk, Ohio. Washer. No. 1,314,990; Sept. 2; v. 266; p. 95.
- Stockwell, William R., Irvington, N. Y. Sectional boiler. No. 1,317,461; Sept. 30; v. 268; p. 662.
- Stoddard, Charles F., New York, N. Y. Automatic musical instrument. No. 1,292,131; Jan. 21; v. 258; p. 564.
- Stoddard, Charles F., New York, N. Y. Perforating-machine. No. 1,294,845; Feb. 18; v. 259; p. 503.
- Stoddard, Charles F., Boston, Mass. Prime controller for automatic or partly-automatic musical instruments. No. 1,294,844; Feb. 18; v. 259; p. 502.
- Stoddard, Charles F., Boston, Mass. Note-sheet for musical instruments. No. 1,304,117; May 20; v. 262; p. 370.
- Stoddard, Charles F., New York, N. Y. Perforating-machine. No. 1,323,614; Dec. 2; v. 269; p. 73.
- Stoddard, Charles F., New York, N. Y. Speed-governing means for moving sheets. No. 1,323,615; Dec. 2; v. 269; p. 73.
- Stoddard, Elliott J., Detroit, Mich. Driving mechanism for automobiles. No. 1,306,864; June 17; v. 263; p. 370.
- Stoddard, Elliott J., Detroit, Mich. Prime mover. No. 1,306,865; June 17; v. 263; p. 370.
- Stoddard, Leona, *et al.* (See Abbott, John R., assignor.)
- Stoddard, Walter E., *et al.* (See Abbott, John R., assignor.)
- Stoddard, William B. (See Ekeley and Stoddard.)
- Stodder, Edward D., New Rochelle, N. Y. Submarine observatory. No. 1,313,838; Aug. 19; v. 265; p. 425.
- Stoekle, Erwin R., New York, N. Y., assignor to The Cutler-Hammer Manufacturing Co., Milwaukee, Wis. Thermionic amplifier. No. 1,309,704; July 15; v. 264; p. 379.
- Stoeltzing, Ernst F., Kansas City, Mo. Amusement device. No. 1,315,431; Sept. 9; v. 266; p. 185.
- Stoffel, Henry, Tulsa, Okla. Wrench. No. 1,317,399; Sept. 30; v. 266; p. 650.
- Stoiber, George W., Detroit, Mich. Combined door-check and door-closing device. No. 1,313,612; Aug. 19; v. 265; p. 383.
- Stoke, Harvey F., Roanoke, Va. Air-compressor. No. 1,321,340; Nov. 11; v. 268; p. 249.
- Stokes, Anthony, Jr., Cleveland, Ohio. Heating apparatus for process-embossing. No. 1,325,217; Dec. 16; v. 269; p. 482.
- Stokes, Charles L., Los Angeles, Calif. Filler-cap and intake for vacuum feed systems. No. 1,302,725; May 6; v. 262; p. 46.
- Stokes, Charles L., Los Angeles, Calif. Float feed-chamber and supply system therefor. No. 1,303,610; May 13; v. 262; p. 239.
- Stokes, Charles L., Los Angeles, Calif. Vacuum liquid-feeding apparatus and method therefor. (Reissue.) No. 14,701; July 29; v. 264; p. 842.
- Stokes, Charles L., Los Angeles, Calif. Liquid-feed system. No. 1,319,913; Oct. 28; v. 267; p. 539.
- Stokes, Charles L., Millong, via Young, New South Wales, Australia. Internal-combustion engine. No. 1,308,560; July 1; v. 264; p. 101.
- Stokes, Charles L., Millong, via Young, New South Wales, Australia. Oil-feed control for carburetors. No. 1,313,131; Aug. 12; v. 265; p. 276.
- Stokes, Charley W., and H. B. Reddish, Custer City, Pa. Means for heating oil in oil-tanks. No. 1,306,288; June 10; v. 263; p. 232.
- Stokes, Francis W., Mansfield, England. Casting-machine. No. 1,302,448; Apr. 29; v. 261; p. 931.



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- Stokes, Francis W., Mansfield, Nottingham, England. Casting-machine. No. 1,304,118; May 20; v. 262; p. 370.
- Stokes, Francis W., Nottingham, England. Casting-machine. No. 1,309,823; July 15; v. 264; p. 401.
- Stokes, Frederick W., S., London, England. Fuse for projectiles. No. 1,298,418; Mar. 25; v. 260; p. 661.
- Stokes, Frederick W. S., London, England, assignor to W. S. Peirce, trustee, U. S. Army. Projectile. No. 1,313,926; Aug. 26; v. 265; p. 475.
- Stokes, Fremont, Clarksville, Ark. Coupling. No. 1,307,160; June 17; v. 263; p. 424.
- Stokes, John S., Moorestown, N. J., and E. G. Rider, Philadelphia, assignors to Stokes and Smith Company, Summerdale, Pa. Machine for gumming wrapper-blanks for boxes or packages. No. 1,302,874; May 6; v. 262; p. 75.
- Stokes & Smith Company. (See Reifsnnyder and Schwerdtie, assignors.)
- Stokes & Smith Company. (See Rider, Earnest G., assignor.)
- Stokes and Smith Company. (See Stokes and Rider, assignors.)
- Stokes & Smith Company. (See Streeper, William H., assignor.)
- Stokes, Stoddell, J. (See Novotny, Emil E., assignor.) Swigel, assignor.)
- Stokkan, Olaf, Vemork, Rjukan, Norway. Holder for matches or match-boxes. No. 1,291,281; Jan. 14; v. 258; p. 315.
- Stokke, Thorleif, and A. Larsen, assignors of one-third to J. Maeland, Hillevaag, near Stavanger, Norway. Opening mechanism for hermetic boxes and the like. No. 1,314,162; Aug. 26; v. 265; p. 520.
- Stoll, Arthur, assignor to The Chemical Works, formerly Sandoz, Basel, Switzerland. Manufacture of high-class peroxidase preparations. No. 1,324,752; Dec. 9; v. 269; p. 334.
- Stoll, George W., assignor of one-half to G. H. Dreschel, Indianapolis, Ind. Device for attaching table-legs. No. 1,297,415; Mar. 18; v. 260; p. 422.
- Stoll, George W., and G. H. Dreschel, Indianapolis, Ind. Device for securing table-legs. No. 1,301,617; Apr. 22; v. 261; p. 739.
- Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Orchard-heater. No. 1,304,820; May 27; v. 262; p. 543.
- Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Container. No. 1,317,738; Oct. 7; v. 267; p. 15.
- Stollenwerk, Henry W., Milwaukee, Wis. Split-rim expanding-tool. No. 1,306,200; June 10; v. 263; p. 213.
- Stoller, Huzh M., assignor to Western Electric Company, Incorporated, New York, N. Y. Modulating system. No. 1,317,400; Sept. 30; v. 266; p. 650.
- Stolpe, John, McPherson, Kans. Motor-wheel. No. 1,301,881; Apr. 29; v. 261; p. 822.
- Stolpe, John, and A. Matson, McPherson, Kans. Oil-stove. No. 1,307,219; June 17; v. 263; p. 434.
- Stolper, Carl B., Kansas City, Mo. Stencil-cutting. No. 1,302,097; Apr. 29; v. 261; p. 863.
- Stoltenberg, Thomas R., assignor to Moline Heat, Moline, Ill. Draft-regulating mechanism. No. 1,292,132; Jan. 21; v. 258; p. 564.
- Stoltz, Daniel J., Montpelier, Ind. Cup for pumps, &c. No. 1,297,033; Mar. 11; v. 260; p. 311.
- Stoltz, Melville, and C. D. Lukens, St. Louis, Mo. Gum-vending machine. No. 1,315,879; Sept. 9; v. 266; p. 266.
- Stomler, Cornelius D. (See Currie, Otis C., assignor.)
- Stommel, Hugo, Elberon, N. J. Double-diaphragm pump. No. 1,321,159; Nov. 11; v. 268; p. 214.
- Stommel, Hugo, Redbank, N. J. Tile-press. No. 1,321,160; Nov. 11; v. 268; p. 215.
- Stone, Albert, Cordova, Alaska. Condiment-holder. No. 1,316,519; Sept. 16; v. 266; p. 401.
- Stone, Andrew H., Kansas City, Mo. Combination library and dining table. No. 1,325,454; Dec. 16; v. 269; p. 525.
- Stone, Andrew J., New London, Conn. Projectile for use against submarines and submerged mines. No. 1,303,738; May 13; v. 262; p. 263.
- Stone, Andrew J., New London, Conn. Depth-charge projector. No. 1,311,780; July 29; v. 264; p. 826.
- Stone, Andrew J., and L. W. Rockwell, Washington, D. C., assignors to the Government of the United States. Fuse for shells. No. 1,301,760; Apr. 22; v. 261; p. 768.
- Stone, Avon L. and J. M., Lodi, Calif. Screen. No. 1,308,998; July 8; v. 264; p. 210.
- Stone, Blanche A., Rochester, N. Y. Washing-machine. No. 1,292,532; Jan. 28; v. 258; p. 680.
- Stone, Charles E., Boston, Mass. Button. No. 1,292,914; Jan. 28; v. 258; p. 771.
- Stone, Charles H. (See Brune and Stone.)
- Stone, Edgar L., Waterford, Me. Ice-cutting machine. No. 1,296,225; Mar. 4; v. 260; p. 94.
- Stone, Edward J., Duluth, Minn. Base for pile-drivers. No. 1,304,119; May 20; v. 262; p. 371.
- Stone, Frank P. (See Waller, Warren E., assignor.)
- Stone, Harris D., assignor to The A. C. Gilbert Company, New Haven, Conn. Rheostat. No. 1,307,643; June 24; v. 263; p. 544.
- Stone, Harry E., Norristown, assignor to Ehret Magnesia Manufacturing Company, Valley Forge, Pa. Filtering apparatus. No. 1,316,465; Sept. 16; v. 266; p. 389.
- Stone, Henry. (See Marmorstein and Stone.)
- Stone, Henry A., Scotch Plains, N. J. Sputum-cup holder. No. 1,294,563; Feb. 18; v. 259; p. 437.
- Stone, Herbert G., Wytheville, Va. Recovering acid. No. 1,314,765; Sept. 2; v. 266; p. 54.
- Stone, Herman F., Lawrence, N. Y. Bootjack. No. 1,296,565; Mar. 4; v. 260; p. 167.
- Stone, John M. (See Stone, Avon L. and J. M.)
- Stone, Nathan M., Chicago, Ill. Attachment for telephones and the like. No. 1,324,283; Dec. 9; v. 269; p. 244.
- Stone, Richard C., Muncie, Ind. Steering device for automobiles. No. 1,298,263; Mar. 25; v. 260; p. 629.
- Stone Straw Company, The. (See McGunigal, Sylvester B., assignor.)
- Stone, Thomas C., Phoenix, Ariz. Internal-combustion engine. No. 1,313,135; Aug. 12; v. 265; p. 277.
- Stone, Wallace H., Wabasha, Minn. Automatic air-hose coupling. No. 1,311,023; July 22; v. 264; p. 652.
- Stone, William E., et al., trustees. (See Sommer, William H., assignor.)
- Stone, William F., Portland, Me., assignor to National Metal Seal Corporation. Crimping-tool. No. 1,305,752; June 3; v. 263; p. 98.
- Stone, William H., Los Angeles, Cal. Apparatus for operating fumigating-tents. No. 1,295,079; Feb. 18; v. 259; p. 555.
- Stoneback, John G., Topeka, Kans. Davenport. (Re-issue.) No. 14,655; May 27; v. 262; p. 623.
- Stoneback, Samuel A., Philadelphia, Pa. Waterproof railway-tie. No. 1,307,565; June 24; v. 263; p. 531.
- Stonebridge, Charles H., New York, N. Y. Folding lantern. No. 1,298,116; Mar. 25; v. 260; p. 596.
- Stonebridge, Charles H., New York, N. Y. Pneumatic mattress. No. 1,317,235; Sept. 30; v. 266; p. 618.
- Stoner, Harvey H., assignor of one-half to W. D. Stoner, Springfield, Ohio. Armored tire. No. 1,296,441; Mar. 4; v. 260; p. 140.
- Stoner, Harvey H., assignor of one-half to W. D. Stoner, Springfield, Ohio. Tire-chain clamp. No. 1,301,521; Apr. 22; v. 261; p. 722.
- Stoner, Willis D. (See Stoner, Harvey H., assignor.)
- Stoop, William J., Wheeling, W. Va. Sheet-metal doubler. No. 1,295,384; Feb. 25; v. 259; p. 648.
- Stoots, John H., Knoxville, Tenn. Adjustable spring-seat. No. 1,319,976; Oct. 28; v. 267; p. 551.
- Storch, Samuel, and H. Gellman, New York, N. Y. Safety key-holder. No. 1,304,403; May 20; v. 262; p. 425.
- Storer, Edwin L., Tulsa, Okla. Signal. No. 1,299,057; Apr. 1; v. 261; p. 101.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,291,232; Jan. 14; v. 258; p. 315.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,291,233; Jan. 14; v. 258; p. 316.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,298,818; Apr. 1; v. 261; p. 47.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Locomotive. No. 1,302,098; Apr. 29; v. 261; p. 863.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Locomotive. No. 1,302,099; Apr. 29; v. 261; p. 863.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system. No. 1,323,332; Dec. 2; v. 269; p. 21.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator-cylinder for dynamo-electric machines. No. 1,326,303; Dec. 30; v. 269; p. 738.
- Storey, John W., Attalla, Ala. Shaft-coupling. No. 1,308,307; July 1; v. 264; p. 55.
- Storey, Oliver W., Madison, Wis., assignor to C. F. Burgess Laboratories. Manufacturing of zinc chloride. No. 1,314,715; Sept. 2; v. 266; p. 46.
- Stork, Herman W., Brooklyn, N. Y. Dumping-scow. No. 1,319,977; Oct. 28; v. 267; p. 551.
- Storle Engine Company, The. (See Storle, Ole O., assignor.)
- Storle, Ole O., Tacoma, Wash. Sparking device for internal-combustion engines. No. 1,291,234; Jan. 14; v. 258; p. 316.
- Storle, Ole O., Tacoma, Wash. Knuckle-joint for transmission-shafts. No. 1,317,054; Sept. 23; v. 266; p. 548.
- Storle, Ole O., Tacoma, Wash. Automatic stop for gramophones. No. 1,317,236; Sept. 30; v. 266; p. 618.
- Storle, Ole O., Tacoma, Wash., assignor to The Storle Engine Company, Kewanee, Wis. Transmission-gearing. No. 1,310,935; July 22; v. 264; p. 635.
- Storm, Gustav F., Sanborn, Iowa. Tile-positioning device. No. 1,294,320; Feb. 11; v. 259; p. 345.
- Stormer, August F., Quincy, Ill. Dispensing-cabinet. No. 1,322,072; Nov. 18; v. 268; p. 437.
- Storms Novelty Company, The. (See Mann, Harry, assignor.)



- Storr, Charles E. N., London, England. Float-controlled apparatus for maintaining a constant level of liquid. No. 1,313,029; Aug. 12; v. 265; p. 256.
- Stortz Gear Shift Company. (See Stortz, John H., assignor.)
- Stortz, John H., assignor to Henry Schmidt & Bro. Inc., Philadelphia, Pa. Machine for creasing cardboard. No. 1,307,065; June 17; v. 263; p. 407.
- Stortz, John H., Philadelphia, Pa., assignor to Stortz Gear Shift Company, Wilmington, Del. Gear-shifting apparatus. No. 1,315,255; Sept. 9; v. 266; p. 153.
- Story, Lester, Leola, S. D. Dispensing-can. No. 1,305,572; June 3; v. 263; p. 65.
- Stott, James, Conway, Wales. Construction of injectors. No. 1,323,116; Nov. 25; v. 268; p. 685.
- Stouffer, Avery M., and W. Ehrler, Stockton, Ill. Playing-cards. No. 1,305,949; June 3; v. 263; p. 137.
- Stoughton, Elmer B., Rogers, Ark. Dam-holder. No. 1,292,133; Jan. 21; v. 258; p. 565.
- Stoughton, Joseph M., Yonkers, N. Y. Clutch. No. 1,307,463; June 24; v. 263; p. 513.
- Stout, George W., Merchantville, N. J. Package-tie. No. 1,305,753; June 3; v. 263; p. 99.
- Stout, George W., Merchantville, N. J., assignor to American Vulcanized Fibre Company, Wilmington, Del. Package-tie. No. 1,294,321; Feb. 11; v. 259; p. 345.
- Stout, James E. (See Bair and Stout.)
- Stout, John H., and L. C. Plater, Scranton, Pa. Dirigible light for automobiles. No. 1,317,528; Sept. 30; v. 266; p. 674.
- Stout, Shirley E., Mitchell, S. D. Post-card. No. 1,303,842; May 13; v. 262; p. 283.
- Stout, Wilfred O., St. Paul, Minn. Dirigible headlight. No. 1,308,204; July 1; v. 264; p. 36.
- Stout, William B., assignor to Packard Motor Car Company, Detroit, Mich. Wheel. No. 1,315,050; Sept. 2; v. 266; p. 106.
- Stout, William B., assignor to Packard Motor Car Company, Detroit, Mich. Aircraft. No. 1,325,054; Dec. 16; v. 269; p. 451.
- Stovall, George B. F., Birmingham, Ala. Fruit and vegetable drier. No. 1,293,237; Feb. 4; v. 259; p. 60.
- Stovall, John T., Shamrock, Tex. Antispreading device for railway-tracks. No. 1,299,807; Apr. 8; v. 261; p. 300.
- Stove, Alfred E., London, England. Hose-coupling. No. 1,323,117; Nov. 25; v. 268; p. 685.
- Stover, Edgar J., York, Pa. Car-coupling. No. 1,312,593; Aug. 12; v. 265; p. 170.
- Stover, Frank E., Luray, Va. Rotary motor. No. 1,319,812; Oct. 28; v. 267; p. 520.
- Stover, Jordan H., Nutley, N. J. Electrolyzer. No. 1,312,756; Aug. 12; v. 265; p. 201.
- Stover, Paul A., Cleveland, Ohio. Automobile-signal. No. 1,300,893; Apr. 15; v. 261; p. 559.
- Stow, Audley H., Maybury, W. Va. Method of and means for producing smoke screens for ships. No. 1,296,226; Mar. 4; v. 260; p. 94.
- Stow, John, and H. B. Cross, Bradford, England. Sliding door for cases, cupboards, and the like. No. 1,303,984; May 20; v. 262; p. 347.
- Stowasser, Anthony, Milwaukee, Wis. Motor-cycle seat. No. 1,304,821; May 27; v. 262; p. 543.
- Stowe, Benjamin L., Jersey City, N. J., assignor to Morgan & Wright. Making pneumatic tires. No. 1,321,402; Nov. 11; v. 268; p. 261.
- Stowe, Benjamin L., Jersey City, N. J., assignor to Morgan & Wright. Pneumatic tire. No. 1,321,403; Nov. 11; v. 268; p. 261.
- Stowe, Benjamin L., Jersey City, N. J., assignor to Morgan & Wright. Apparatus for making pneumatic tires. No. 1,321,404; Nov. 11; v. 268; p. 262.
- Stowe, Floyd D., Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Seamer. No. 1,306,449; June 10; v. 263; p. 261.
- Stowe, Francis E., Sydney, New South Wales, Australia. Vertically sliding or swinging sash-window. No. 1,305,316; June 3; v. 263; p. 17.
- Stowell, Byron F., assignor to Barney & Berry, Inc., Springfield, Mass. Finishing-machine. No. 1,301,190; Apr. 22; v. 261; p. 658.
- Stowell, Frank C., Medford, Mass. Ventilating system. No. 1,303,410; May 13; v. 262; p. 203.
- Strader, Julius G., assignor, by mesne assignments, to I. H. Pritchett, Petersburg, Va. Clothes-pin. No. 1,301,191; Apr. 22; v. 261; p. 658.
- Stradling, Bertha M., and E. E. Washburn, Blair, Nebr. Adjustable abdominal supporting-corset. No. 1,301,618; Apr. 22; v. 261; p. 739.
- Strafford-Collins, Robert, Elmhurst, N. Y. Foldable receptacle-form. No. 1,293,716; Feb. 11; v. 259; p. 203.
- Straight, Asa W., Chicago, Ill. Photographer's flash-light. No. 1,307,220; June 17; v. 263; p. 434.
- Straight, Halver R., Adel, Iowa. Kilm and similar structure. No. 1,290,848; Jan. 7; v. 258; p. 200.
- Straight, Halver R., Adel, Iowa. Clay cutting and mixing machine. No. 1,301,017; Apr. 15; v. 261; p. 685.
- Straight, Halver R., Adel, Iowa. Clay-mixing machine. No. 1,303,611; May 13; v. 262; p. 240.
- Straight, Halver R., Adel, Iowa. Ventilated building structure. No. 1,316,982; Sept. 23; v. 266; p. 534.
- Straight, Halver R., Adel, Iowa. Tile building construction. No. 1,317,183; Sept. 30; v. 266; p. 609.
- Straight, Halver R., Adel, Iowa. Wall-block. No. 1,319,019; Oct. 14; v. 267; p. 321.
- Straight, Halver R., Adel, Iowa. Ventilated building-block. No. 1,322,646; Nov. 25; v. 268; p. 597.
- Straight, Halver R., Adel, Iowa. Apparatus for distilling oil from oil-bearing shales. No. 1,323,204; Nov. 25; v. 268; p. 702.
- Strain, Alma, administratrix. (See Strain, Henry.)
- Strain, Henry, deceased; A. Strain, administratrix, Treloar, Mo. Traction-wheel. No. 1,305,977; June 3; v. 263; p. 142.
- Strait, William, Appleton, Wis. Tractor-belt mechanism. No. 1,298,597; Mar. 25; v. 260; p. 699.
- Straker-Squire Limited. (See North, Oliver D., assignor.)
- Stranahan, Robert A., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-plug. No. 1,313,425; Aug. 19; v. 265; p. 347.
- Strand, Carl T., et al. (See Bergren, John A., assignor.)
- Strand, George, Cortland, Ill. Raking apparatus. No. 1,296,227; Mar. 4; v. 260; p. 94.
- Strand, John, Chicago, Ill. Carrier. No. 1,311,668; July 29; v. 264; p. 805.
- Strand, Nels A., Chicago, Ill. Flexible shafting. No. 1,297,034; Mar. 11; v. 260; p. 311.
- Strandell, Johannes G. A., Chicago, Ill. Connector. No. 1,323,655; Dec. 2; v. 269; p. 81.
- Stranders, Julien, Brooklyn, assignor to H. B. Kruger, New York, N. Y. Advertising or display device. No. 1,313,351; Aug. 19; v. 265; p. 333.
- Strandlund, Carl G. (See Brown and Strandlund.)
- Strane, Archibald J. (See Hill and Strane.)
- Strang, Harry B., London, assignor to Thos. Firth and Sons Limited, Sheffield, England. Projectile. No. 1,312,762; Aug. 12; v. 265; p. 203.
- Strang, Harry B., London, assignor to Thos. Firth and Sons Limited, Sheffield, England. Projectile. No. 1,312,763; Aug. 12; v. 265; p. 203.
- Strang, Louise B., and C. C. Pollock, Seattle, Wash. Brush. No. 1,297,272; Mar. 11; v. 260; p. 362.
- Strange, Albert B., New York, N. Y. Gate. No. 1,324,082; Dec. 9; v. 269; p. 206.
- Strange, Edwin B., New York, N. Y. Pail. No. 1,296,132; Mar. 4; v. 260; p. 73.
- Strange, Porter A., assignor of one-fourth to M. E. Wilson, Dallas, Tex. Refrigerating apparatus. No. 1,302,726; May 6; v. 262; p. 46.
- Stranzky, Emil, assignor to The Dover Manufacturing Company, Dover, Ohio. Electrical soldering-iron. No. 1,315,172; Sept. 2; v. 266; p. 127.
- Strater, Theodore G. (See Barnes, Charles E., assignor.)
- Strathern, Alexander G., Glasgow, Scotland. Screw-clamp or gripping device. No. 1,322,370; Nov. 18; v. 268; p. 493.
- Strathern, Alexander G., Glasgow, Scotland. Lifting clamp or dog. No. 1,326,802; Dec. 30; v. 269; p. 833.
- Strathmann, Samuel J. (See Branson and Strathmann.)
- Strathmore Paper Company. (See Holt, Daniel S., assignor.)
- Stratton, Charles D., assignor to G. W. Browning, Clinton, N. Y. Fertilizer-distributor. No. 1,314,546; Sept. 2; v. 266; p. 13.
- Stratton, Charles D., assignor to G. W. Browning, Clinton, N. Y. Fertilizer-distributor. No. 1,314,766; Sept. 2; v. 266; p. 55.
- Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electric controller. No. 1,305,950; June 3; v. 263; p. 137.
- Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Electric controller. No. 1,305,951; June 3; v. 263; p. 137.
- Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Apparatus-container. No. 1,326,882; Dec. 30; v. 269; p. 847.
- Stratton, Henry A., Moose Jaw, Saskatchewan, Canada. Sheaf-loader. No. 1,301,192; Apr. 22; v. 261; p. 658.
- Stratton, Henry B., Warrensburg, Mo. Car-step. No. 1,301,761; Apr. 22; v. 261; p. 769.
- Stratton, James M., assignor to The Deming Company, Salem, Ohio. Pump. No. 1,297,035; Mar. 11; v. 260; p. 311.
- Stratton, John, Bowden, and E. A. Claremont, High Legh, England. Extruding lead and the like. No. 1,301,882; Apr. 29; v. 261; p. 822.
- Stratton, John, Bowden, and E. A. Claremont, High Legh, England. Extruding rubber and the like. No. 1,302,484; Apr. 29; v. 261; p. 937.
- Stratton, John F. O., assignor to Standard Ignition Company, Elkhart, Ind. Automatic lubricating device for magneto-bearings. No. 1,316,655; Sept. 23; v. 266; p. 474.
- Stratton, Nathaniel A., Melrose, assignor of one-sixth to W. L. Day, Boston, Mass. Measuring instrument. No. 1,296,566; Mar. 4; v. 260; p. 168.
- Stratton, Nathaniel A., assignor to New American Ore Concentrator Company, Boston, Mass. Ore-concentrating machine. No. 1,306,450; June 10; v. 263; p. 261.
- Straub, Eduard, Sulzen, Switzerland. Furnace for burning liquid fuels having the tendency to burn with a strongly-sooting flame. No. 1,313,136; Aug. 12; v. 265; p. 277.



## Alphabetical list of patentees—Continued.

- Straub, Joseph E., Ilion, N. Y., assignor to Wahl Company, Wilmington, Del. Label-holder for calculating-machines. No. 1,292,134; Jan. 21; v. 258; p. 565.
- Straub, Oscar I. (See Wildrick, Meade, assignor.)
- Straub, Oscar I., U. S. Army. Anti-aircraft projectile. No. 1,312,764; Aug. 12; v. 265; p. 203.
- Straub, Oscar I., U. S. Army. Projectile. No. 1,312,765; Aug. 12; v. 265; p. 204.
- Straub, Oscar I., and M. Wildrick, U. S. Army. Aerial torpedo or mine. No. 1,297,273; Mar. 11; v. 260; p. 363.
- Straub, Oscar I., and M. Wildrick, U. S. Army. Bomb or submarine mine. No. 1,310,586; July 22; v. 264; p. 571.
- Straub, Oscar I., and M. Wildrick, U. S. Army. Bomb or submarine mine. No. 1,311,781; July 29; v. 264; p. 826.
- Straub, William F., Chicago, Ill. Interchangeable tool-holder. No. 1,307,937; June 24; v. 263; p. 599.
- Straub, William F., assignor to Electric Time Recorder Company, Chicago, Ill. Time-stamp. No. 1,292,135; Jan. 21; v. 258; p. 565.
- Straubel, Frederick L. G., Green Bay, Wis. Desk-tray set. No. 1,303,985; May 20; v. 262; p. 347.
- Straubel, Frederick L. G., Green Bay, Wis. Desk-tray rack. No. 1,319,431; Oct. 21; v. 267; p. 424.
- Straus, Harry H., New York, N. Y. Button-covering. No. 1,302,875; May 6; v. 262; p. 76.
- Strauser, William H., Fairmont, W. Va. Guard for wringers. No. 1,315,613; Sept. 9; v. 266; p. 217.
- Strauss, Benno, Brodeney, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Articles which require high resistance against corrosion. No. 1,316,817; Sept. 23; v. 266; p. 501.
- Strauss, David A., Milwaukee, Wis. Fastener for storm-sashes, window-screens, &c. No. 1,313,927; Aug. 26; v. 265; p. 476.
- Strauss, Ernest H., Chicago, Ill. Lamp-shade. No. 1,310,378; July 15; v. 264; p. 501.
- Strauss, Joseph B., Chicago, Ill. Concrete car. No. 1,299,411; Apr. 1; v. 261; p. 180.
- Strauss, Lee. (See Radabaugh, Ira M., assignor.)
- Strauss, Moses I., Denver, Colo. Header-barge stacker. No. 1,293,239; Feb. 4; v. 259; p. 61.
- Strauss, Samuel, Los Angeles, Calif. Making shoes. No. 1,325,764; Dec. 23; v. 269; p. 600.
- Straw, Curtis, Harpster, Ohio. Music-leaf turner. No. 1,293,571; Feb. 4; v. 259; p. 139.
- Straw Gas and Creosote Distilling Co. (See Pfeifer, Frank, assignor.)
- Strawn, Ervin E., Des Moines, Iowa. Loose-leaf binder. No. 1,292,915; Jan. 28; v. 258; p. 771.
- Strawn, Ervin E., Des Moines, Iowa. Printing-machine. No. 1,325,491; Dec. 16; v. 269; p. 532.
- Strawn, Jesse C., assignor of one-half to G. W. Jones, Buffalo Springs, Tex. Violin-piano. No. 1,300,894; Apr. 15; v. 261; p. 559.
- Strayer, Daniel H., North Bend, Nebr. Combination table, stepladder and ironing-board. No. 1,324,939; Dec. 16; v. 269; p. 430.
- Strehler, George L., St. Louis, Mo. Internal-combustion motor. No. 1,314,716; Sept. 2; v. 266; p. 46.
- Strecker, Harvey M., Arcadia, Kans. Theft-preventing automobile-signal. No. 1,325,593; Dec. 23; v. 269; p. 569.
- Streeper, William H., assignor to Stokes & Smith Company, Philadelphia, Pa. Manufacture of container structures. No. 1,297,748; Mar. 18; v. 260; p. 494.
- Street, Norman A., *et al.* (See Blood, Burr B., assignor.)
- Streeter, Amet Welgish & Recording Company. (See Guldbrandsen, Guldbrand, assignor.)
- Strehls, Bruno A., Detroit, Mich. Stamp-affixing machine. No. 1,323,419; Dec. 2; v. 269; p. 37.
- Streib, John F. (See Lindström and Streib.)
- Streich, Frank and P. B., assignors to the Union Wrapping Machine Company, Joliet, Ill. Conveyor for proofing apparatus. No. 1,322,647; Nov. 25; v. 268; p. 597.
- Streich, Frank and P. B., assignors to the Union Wrapping Machine Company, Joliet, Ill. Proofing apparatus. No. 1,322,839; Nov. 25; v. 268; p. 633.
- Streich, Frank and P. B., assignors to the Union Wrapping Machine Company, Joliet, Ill. Bucket-dumping mechanism for conveyors of proofing apparatus. No. 1,322,840; Nov. 25; v. 268; p. 633.
- Streich, Paul B. (See Streich, Frank and P. B.)
- Streich, Paul B., assignor to the Union Wrapping Machine Company, Joliet, Ill. Dough-scaling machine. No. 1,323,727; Dec. 2; v. 269; p. 94.
- Streich, William F., Detroit, Mich. Drawer-stabilizer. No. 1,321,859; Nov. 18; v. 268; p. 398.
- Strelt, Charles H. (See Madell, Frederick J., assignor.)
- Stremel, Joseph, assignor of one-half to K. Schommers, Spokane, Wash. Toy. No. 1,314,614; Sept. 2; v. 266; p. 26.
- Streng, Einar. (See Elliott, Patrick J., assignor.)
- Stretesky, Joseph R., Bonne Terre, Mo. Hot-air furnace. No. 1,325,421; Dec. 16; v. 269; p. 519.
- Stricker, Earle C. (See Dunlap, Forrest B., assignor.)
- Strickland, Jacob N., Savannah, Ga. Lock. No. 1,310,307; July 15; v. 264; p. 489.
- Strickland, Archie O., Winfield, Kans. Fuel-magazine. No. 1,298,819; Apr. 1; v. 261; p. 47.
- Strickland, Charles V., Brooklyn, N. Y. Tobacco-stemming machine. No. 1,301,193; Apr. 22; v. 261; p. 659.
- Strickland, De Witt W., Tylertown, Miss. Cultivator. No. 1,310,095; July 15; v. 264; p. 450.
- Strickland, Frederick E., Alexandria, La. Foldable umbrella. No. 1,307,938; June 24; v. 263; p. 599.
- Strickland, Joseph R., New Orleans, La. Broom and mop holder. No. 1,292,136; Jan. 21; v. 258; p. 565.
- Strickland, Silas A., Detroit, Mich. Pump for motor-vehicles. No. 1,294,564; Feb. 18; v. 259; p. 437.
- Strickland, Silas A., assignor to Detroit Accessories Corporation, Detroit, Mich. Pump for motor-vehicles. (Re-issue.) No. 14,621; Mar. 25; v. 260; p. 708.
- Strickland, Silas A., assignor to Detroit Accessories Corporation, Detroit, Mich. Attachment for motor-vehicle pumps. No. 1,315,256; Sept. 9; v. 266; p. 153.
- Strickland, Silas A., assignor to Detroit Accessories Corporation, Detroit, Mich. Pump. No. 1,315,257; Sept. 9; v. 266; p. 153.
- Strid, Sven J., Chicago Heights, Ill., assignor to W. H. Miner, Chazy, N. Y. High-capacity shock-absorbing mechanism. No. 1,308,965; July 8; v. 264; p. 204.
- Strietelmeier, John E. (See Brown and Strietelmeier.)
- Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Sheet-metal wheel construction. No. 1,296,873; Mar. 11; v. 260; p. 274.
- Striker, Raymond C., *et al.* (See Sloan, Alonzo H., assignor.)
- Strimple, Pierce J., Cleves, Ohio. Dirigible and tiltable headlight. No. 1,311,254; July 29; v. 264; p. 727.
- Strite, Charles P., assignor to Waldorf Paper Products Company, St. Paul, Minn. Box-sealing machine. No. 1,290,676; Jan. 7; v. 258; p. 161.
- Strite, George T., Minneapolis, Minn. Clutch. No. 1,299,258; Apr. 1; v. 261; p. 146.
- Strite, George T., Minneapolis, Minn., assignor to Avery Company, Peoria, Ill. Automatic power-operated plow-lift. No. 1,303,516; May 13; v. 262; p. 222.
- Strite, George T., Minneapolis, Minn., assignor to Avery Company, Peoria, Ill. Power-operated plow-lift. No. 1,303,517; May 13; v. 262; p. 222.
- Strite, George T., Minneapolis, Minn., assignor to Avery Company, Peoria, Ill. Plow. No. 1,303,518; May 13; v. 262; p. 223.
- Ströbeck, Frans T., Beachmont, Mass., assignor to The Singer Manufacturing Company. Attaching fur strips to body material. No. 1,291,235; Jan. 14; v. 258; p. 316.
- Strobeck, George A., Red Lion, Pa. Tire-tool. No. 1,298,820; Apr. 1; v. 261; p. 47.
- Strobridge, William, Riverton, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Apparatus for applying skill to core-bars. No. 1,305,675; June 3; v. 263; p. 83.
- Strock, Joseph G., Pittsburgh, Pa. Metallic packing. No. 1,298,117; Mar. 25; v. 260; p. 597.
- Strocker, Marthe R. L., Washington, D. C. Brassière-corset. No. 1,312,459; Aug. 5; v. 265; p. 114.
- Strodel, Otto F. (See Loveless, Fred H., assignor.)
- Stroebe, John F. (See Danke, Arthur E., assignor.)
- Strohacker, Edward and L., assignors to Structo Manufacturing Company, Freeport, Ill. Switch and brush mounting for electric motors. No. 1,293,973; Feb. 11; v. 259; p. 263.
- Strohacker, Louis. (See Strohacker, Edward and L.)
- Stroecker, Henry E., Enon Valley, Pa. Piston-tool. No. 1,325,177; Dec. 16; v. 269; p. 475.
- Stroke, Charles J., Buffalo, N. Y. Burglar-alarm and lock. No. 1,299,808; Apr. 8; v. 261; p. 300.
- Strom, Carl A., Floral Park, N. Y. Aeroplane-rudder. No. 1,313,839; Aug. 19; v. 265; p. 425.
- Strom, Carl E., and C. Swanson, New Britain, Conn. Safety window-catch. No. 1,313,840; Aug. 19; v. 265; p. 425.
- Strom, Christopher, Alliance, Ohio. Joint. No. 1,301,883; Apr. 29; v. 261; p. 823.
- Strom, Fredric H., St. Paul, Minn. Cable-clip. No. 1,298,118; Mar. 25; v. 260; p. 597.
- Strom, Gustaf E., assignor to American Hoist & Derrick Co., St. Paul, Minn. Bottom-dump tripping device. No. 1,302,876; May 6; v. 262; p. 76.
- Strom, Julius C., Silverton, Ore. Sliding-door hanger. No. 1,325,123; Dec. 16; v. 269; p. 465.
- Strom, Otto H., Hot Springs, N. C., assignor of one-half to C. B. Jones, Toms Creek, Va. Lubricating system. No. 1,318,932; Oct. 14; v. 267; p. 304.
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Harris, Harvey L., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Levis, John H., Jr., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Manson, Ray H., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)
- Stromberg-Carlson Telephone Mfg. Co. (See Beyland, Sidney A., assignor.)
- Stromberg Motor Devices Company. (See Anderson, Raymond M., assignor.)
- Stromberg Motor Devices Company. (See Edwards, Francis E., assignor.)



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- Stromberg Motor Devices Company. (See Leavell, Richard A., assignor.)
- Stromberg Motor Devices Company. (See Maegly, George B., assignor.)
- Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)
- Stromberg Motor Devices Company. (See Odlin, Henry W., assignor.)
- Stromberg Motor Devices Company. (See Stiger, Charles W., assignor.)
- Stronach, Harry S., Tacoma, Wash. Boring-machine. No. 1,311,626; July 29; v. 264; p. 797.
- Stroner, Anthony, Florence, Colo. Tool for applying sack-ties. No. 1,322,971; Nov. 25; v. 268; p. 658.
- Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,301,194; Apr. 22; v. 261; p. 659.
- Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,311,297; July 29; v. 264; p. 736.
- Strong, Harvey M., Des Moines, Iowa. Transmission-band adjuster. No. 1,320,347; Oct. 28; v. 267; p. 619.
- Strong, James B. (See Balkwill and Strong.)
- Strong, Lorenzo G., Tacoma, Wash. Bearer for printing-presses. No. 1,326,111; Dec. 23; v. 269; p. 665.
- Strong, William J. H. (See Raffel, Ferdinand A., assignor.)
- Strong, William W., Mechanicsburg, Pa. Process and apparatus for precipitating matter from gases. No. 1,325,124; Dec. 16; v. 269; p. 465.
- Stronghart Company. (See Kusel, Isidor J., assignor.)
- Stroschein, Edward, Oshkosh, Wis. Self-adjusting rotary brush. No. 1,290,403; Jan. 7; v. 258; p. 93.
- Stroth, Irwine C., Wellston, Ohio. Antiskid device. No. 1,308,455; July 1; v. 264; p. 81.
- Strother, William P., Wirt, Okla. Heating means for mineral oils. No. 1,326,618; Dec. 30; v. 269; p. 798.
- Stroud, Arthur E., Long Eaton, England. Reed for looms. No. 1,323,926; Dec. 2; v. 269; p. 132.
- Stroud, Charles M., assignor of one-half to R. E. Starkey, Minneapolis, Minn. Spark-plug. No. 1,310,970; July 22; v. 264; p. 642.
- Stroud, John B., Pass Christian, Miss. Filler-cap for tire-rim clamps. No. 1,306,980; June 17; v. 263; p. 391.
- Stroud, William. (See Barr and Stroud.)
- Stroud, William G., assignor of one-half to W. R. Watkins, St. Paul, Minn. Piston-ring contractor. No. 1,303,612; May 13; v. 262; p. 240.
- Strout, Archie L., Stockton, Calif. Automatic stabilizer for aeroplanes. No. 1,314,913; Sept. 2; v. 266; p. 81.
- Strout, Harvey C., assignor to Traffic Sign & Signal Company, Gloucester, Mass. Car-signal. No. 1,292,137; Jan. 21; v. 258; p. 565.
- Strow, Hudson H. (See Gough and Strow.)
- Struble, Alfred, assignor of one-half to A. Holland, Fargo, N. D. Machine for treating smut. No. 1,312,647; Aug. 12; v. 265; p. 181.
- Struble, Rose L. B., Penn Yan, N. Y. Direction-indicator. No. 1,318,816; Oct. 14; v. 267; p. 281.
- Struble, Rose L. B., Penn Yan, N. Y. Automobile-signal. No. 1,323,118; Nov. 25; v. 268; p. 685.
- Strubler, Gordon L., Chicago, Ill., assignor of ninety-nine one-hundredths to Parcel Post Scale Co., Logansport, Ind. Parcel-post scale. No. 1,296,710; Mar. 11; v. 260; p. 237.
- Strücke, Herman E., Brooklyn, N. Y. Air-brush and similar apparatus. No. 1,294,190; Feb. 11; v. 259; p. 314.
- Structo Manufacturing Company. (See Strohecker, Edward and L., assignors.)
- Structural Pressed Steel Wheel Company. (See Lachman, Laurence S., assignor.)
- Structural Pressed Steel Wheel Company. (See Lachman, Maurice, assignor.)
- Struever, Henry F., Faulkton, S. D. Electric superheater. No. 1,317,401; Sept. 30; v. 266; p. 650.
- Strunk, Joseph B., Mill Hall, Pa. Silo-door construction. No. 1,309,109; July 8; v. 264; p. 232.
- Struthers, Thomas, Spokane, Wash. Target. No. 1,305,022; May 27; v. 262; p. 580.
- Strutt, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Abrasive and making same. No. 1,324,215; Dec. 9; v. 269; p. 231.
- Struve, Felix L., et al. (See Bolton, Williams, and Struve.)
- Struzas, John M., and J. Kulluk, Rockford, Ill. Potatoparing machine. No. 1,304,716; May 27; v. 262; p. 524.
- Stryker, Julius B. B., Lansdale, Pa., assignor to Perkins Glue Company. Adhesive and making the same. No. 1,299,809; Apr. 8; v. 261; p. 300.
- Stryker, Walter W. (See Dickinson, Raymond S., assignor.)
- Strzyckowski, Julian. (See Pehel, Zygmunt, assignor.)
- Strzyckowski, Julian, New York, N. Y. Temperature-indicator. No. 1,294,846; Feb. 18; v. 259; p. 503.
- Stuart, Alexander T., assignor to R. Blei, trustee, New York, N. Y. Electrolytic cell and electrode therefor. No. 1,303,519; May 13; v. 262; p. 223.
- Stuart, Edwards B., Chicago, Ill. Faucet. No. 1,305,023; May 27; v. 262; p. 580.
- Stuart, Francis L., Baltimore, Md. Apparatus for loading and unloading. No. 1,313,928; Aug. 26; v. 265; p. 476.
- Stuart, Francis L., Washington, D. C. Apparatus for unloading and loading. No. 1,314,615; Sept. 2; v. 266; p. 26.
- Stuart, Francis L., New York, N. Y. Conveying system. No. 1,325,055; Dec. 16; v. 269; p. 451.
- Stuart, Francis L., New York, N. Y. Apparatus for conveying, delivering, and gathering material. No. 1,325,812; Dec. 23; v. 269; p. 610.
- Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. System and apparatus for reclaiming materials. No. 1,300,672; Apr. 15; v. 261; p. 511.
- Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Conveyor. No. 1,310,454; July 22; v. 264; p. 264.
- Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Conveyor. No. 1,311,298; July 29; v. 264; p. 736.
- Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Conveyor. No. 1,312,061; Aug. 5; v. 265; p. 39.
- Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Reclaiming and conveying apparatus. No. 1,312,594; Aug. 12; v. 265; p. 171.
- Stuart, Francis L., Washington, D. C., assignor to International Conveyor Corporation, New York, N. Y. Reclaiming and conveying apparatus. No. 1,313,352; Aug. 19; v. 265; p. 333.
- Stuart, Francis L., assignor to International Conveyor Corporation, New York, N. Y. Apparatus for conveying and delivering material. No. 1,317,997; Oct. 7; v. 267; p. 64.
- Stuart, Francis L., assignor to International Conveyor Corporation, New York, N. Y. Conveying system. No. 1,324,184; Dec. 9; v. 269; p. 225.
- Stuart, Frank J., St. Louis, Mo. Forming heater elements for liquid-heaters. No. 1,322,073; Nov. 18; v. 268; p. 437.
- Stuart, George S., Tampa, Fla. Window-cleaner's safety appliance. No. 1,290,404; Jan. 7; v. 258; p. 94.
- Stuart, George S., Tampa, Fla. Window-cleaner's safety appliance. No. 1,300,040; Apr. 8; v. 261; p. 350.
- Stuart, George S., Washington, D. C. Automatically-propelled device. No. 1,320,348; Oct. 28; v. 267; p. 619.
- Stuart, George S., Washington, D. C. Emergency device for use with automobiles. No. 1,325,422; Dec. 16; v. 269; p. 520.
- Stuart, George S., Washington, D. C. Folding-seat attachment. No. 1,325,423; Dec. 16; v. 269; p. 520.
- Stuart, Heber M., Baltimore, Md., assignor to Electrolytic Zinc Company, Inc., New York, N. Y. Handling anodes in electrolytic baths. No. 1,299,519; Apr. 8; v. 261; p. 233.
- Stuart, Henry J., Derby, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Garment-supporter. No. 1,290,677; Jan. 7; v. 258; p. 161.
- Stuart, Henry J., Derby, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Hose-supporter button. No. 1,290,678; Jan. 7; v. 258; p. 161.
- Stuart, Henry J., Derby, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Button-clasp. No. 1,290,679; Jan. 7; v. 258; p. 161.
- Stuart, Henry J., Derby, assignor to Robert N. Bassett Company, Incorporated, Shelton, Conn. Button-clasp. No. 1,302,449; Apr. 29; v. 261; p. 931.
- Stuart, John, St. Kilda, Melbourne, Victoria, Australia. Resilient wheel. No. 1,311,024; July 22; v. 264; p. 652.
- Stuart, Leslie A. B. (See Dorhauer, Oswald A. E., assignor.)
- Stuart, Thomas E., Council Bluffs, Iowa. Tool-holder. No. 1,296,133; Mar. 4; v. 260; p. 73.
- Stubbers, Joseph, Cincinnati, Ohio. Dispensing device. No. 1,318,817; Oct. 14; v. 267; p. 281.
- Stubblefield, Garfield, Portland, Ore. Indirect-lighting apparatus. No. 1,300,202; Apr. 8; v. 261; p. 386.
- Stubblefield, James L., Angiola, assignor of one-half to A. T. Parker, Stockton, Calif. Locking device. No. 1,307,161; June 17; v. 263; p. 424.
- Stubblefield, John A., Portland, Ore. Lock-nut. No. 1,325,125; Dec. 10; v. 269; p. 465.
- Stubbs, Robert C., Dallas, Tex. Paving for streets and the like. No. 1,315,749; Sept. 9; v. 266; p. 241.
- Stubbs, William A., Winthrop, Mass. Method of and apparatus for lasting boots and shoes. No. 1,326,112; Dec. 23; v. 269; p. 665.
- Stuber, Clyde M., Bethlehem, Pa. Hothouse or protector for young plants. No. 1,326,113; Dec. 23; v. 269; p. 665.
- Stuber & Kuck Company. (See Mohr, Frank J., assignor.)
- Stubbjare, Joe A., and H. L. Raiff, Columbus, Mont. Form for hollow molded walls. No. 1,314,099; Aug. 26; v. 265; p. 508.
- Stuchlak, Nicholas, Chicago, Ill. Invalid-table. No. 1,318,703; Oct. 14; v. 267; p. 260.



## Alphabetical list of patentees—Continued.

- Stuck, Charles M., Seattle, Wash. Hallux-corrector. No. 1,291,236; Jan. 14; v. 258; p. 316.
- Stuck, Everett, assignor to The O. M. Edwards Company, Incorporated, Syracuse, N. Y. Sectional cabinet. No. 1,308,647; July 1; v. 264; p. 117.
- Stucki, Arnold, Pittsburgh, Pa. Roller side bearing. No. 1,297,928; Mar. 18; v. 260; p. 532.
- Stucki, Arnold, Pittsburgh, Pa. Roller side bearing. No. 1,303,986; May 20; v. 262; p. 347.
- Studebaker, Charley M., assignor of one-half to G. W. Studebaker and one-half to J. L. Turner, Centropolis, Kans. Gas-heater for automobiles. No. 1,321,680; Nov. 11; v. 268; p. 313.
- Studebaker Corporation, The. (See Graff, Edwin E., assignor.)
- Studebaker Corporation, The. (See Heaslet, James G., assignor.)
- Studebaker Corporation, The. (See Link, Vincent, assignor.)
- Studebaker Corporation, The. (See Simpelaar, Jacob G., assignor.)
- Studebaker, George W., et al. (See Studebaker, Charley M., assignor.)
- Studley, J. Butler, et al., executors. (See Arnold and Frye, assignors.)
- Stuer, Jules, Methuen, Mass. Stop-motion for looms. No. 1,313,755; Aug. 19; v. 265; p. 409.
- Stuessi, Geo. H., et al. (See Lamar, Alexis L., assignor.)
- Stuhr, John H., Midway, Wis. Fur-stretcher. No. 1,307,522; June 24; v. 263; p. 523.
- Stukenberg, Charles T., Albers, Ill. Cabinet. No. 1,316,118; Sept. 16; v. 266; p. 324.
- Stull, Eugene B., et al. (See Newbauer, Faltine, assignor.)
- Stults, Thomas H., Joplin, Mo. Rail and chair for holding same. No. 1,322,841; Nov. 25; v. 268; p. 633.
- Stultz, Otis E., Henry, W. Va. Protector for reels. No. 1,297,606; Mar. 18; v. 260; p. 462.
- Stunz, William P., Lansdowne, assignor to G. R. Webb, Baltimore, Md. Telephonic instrument. No. 1,319,933; Oct. 28; v. 267; p. 542.
- Stupar, Joseph, Honolulu, Hawaii. Stabilizer. No. 1,306,318; June 10; v. 263; p. 237.
- Stuppy, William J. (See Beil and Hoff, assignors.)
- Sturcke, Herman E., Brooklyn, N. Y. Spraying or atomizing apparatus. No. 1,303,987; May 20; v. 262; p. 347.
- Sturdivant, Frank K., assignor of one-half to C. E. Kelam, Biscoe, N. C. Radius-rod brace for autos. No. 1,300,041; Apr. 8; v. 261; p. 350.
- Sturdy, Fred, Leeds, assignor of one-half to W. Mitchell, Horsforth, England. Pocket for coats or other garments. No. 1,308,999; July 8; v. 264; p. 210.
- Sturgeon, Harold M., Erie, Pa. Hammer. No. 1,300,511; Apr. 15; v. 261; p. 478.
- Sturgeon, John C., Erie, Pa. Automatic gas-operated firearm. No. 1,290,849; Jan. 7; v. 258; p. 200.
- Sturgeon, John C., Erie, Pa. Gas-operated automatic firearm. No. 1,290,850; Jan. 7; v. 258; p. 200.
- Sturgeon, John C., Erie, Pa. Automatic gun-cartridge supply and feed mechanism. No. 1,290,851; Jan. 7; v. 258; p. 200.
- Sturgeon, John C., Erie, Pa. Automatic gas-operated firearm. No. 1,290,852; Jan. 7; v. 258; p. 200.
- Sturgeon, John C., Erie, Pa. Firearm-barrel-cooling mechanism. No. 1,290,853; Jan. 7; v. 258; p. 200.
- Sturgeon, John C., Erie, Pa. Automatic rapid-fire gun. No. 1,290,854; Jan. 7; v. 258; p. 201.
- Sturgeon, Robert A. (See Hughes, Travis, and Sturgeon.)
- Sturgeon, Robert A., Southsea, England. Centrifugal machine. No. 1,304,621; May 27; v. 262; p. 506.
- Sturges, Norman D., Brooklyn, N. Y., assignor to Multiple Storage Battery Co. Mold for casting battery-grids. No. 1,317,333; Sept. 30; v. 266; p. 637.
- Sturges, Norman D., Brooklyn, N. Y., assignor to Multiple Storage Battery Co. Battery-seal. No. 1,325,338; Dec. 16; v. 269; p. 505.
- Sturgis, Benjamin R., Baltimore, Md. Combination-plane. No. 1,292,969; Jan. 28; v. 258; p. 784.
- Sturns, Harry, et al. (See Cornu, Louis E., assignor.)
- Sturrock, John, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Pitman connection. No. 1,291,237; Jan. 14; v. 258; p. 316.
- Sturrock, John, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Pitman connection for mowers. No. 1,314,717; Sept. 2; v. 266; p. 46.
- Sturrock, Leslie A. (See Rice and Sturrock.)
- Sturtevant, B. F. (See Allen, George W., assignor.)
- Sturtevant, Cullen K. (See Hamilton, Cameron G., assignor.)
- Sturtevant, Jesse B., Lawton, Iowa. Driving device. No. 1,325,384; Dec. 16; v. 269; p. 513.
- Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
- Sturtevant, Norris O. (See Fingler and Sturtevant.)
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Harrison Square, Mass. Mill. No. 1,296,134; Mar. 4; v. 260; p. 74.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Screen. No. 1,314,547; Sept. 2; v. 266; p. 13.
- Sturts, Charles F. A., San Francisco, Cal. Reproducer. No. 1,291,238; Jan. 14; v. 258; p. 317.
- Sturts, Charles F. A., San Francisco, Cal. Sound-box and tone-arm connector. No. 1,291,239; Jan. 14; v. 258; p. 317.
- Sturtsman, Virgei B., Elwood, Ind. Car-door. No. 1,291,240; Jan. 14; v. 258; p. 317.
- Stute, August A., Jackson, Mich. Combination shipping-tag and mailing-envelope. No. 1,320,349; Oct. 28; v. 267; p. 620.
- Stutler, Santford R., Bristol, W. Va. Collapsible coop. No. 1,298,598; Mar. 25; v. 260; p. 699.
- Stutz, Charles C. (See Slocum and Stutz.)
- Stutzke, Richard W. G., assignor, by mesne assignments, to The G. A. Buhl Company, Chicago, Ill. Manufacture of starch products. No. 1,320,719; Nov. 4; v. 268; p. 67.
- Stuverud, Torkel T., Elbow Lake, Minn. Concrete block. No. 1,319,731; Oct. 28; v. 267; p. 504.
- Styers, John E., Seattle, Wash. Automatic speed-changing mechanism. No. 1,291,241; Jan. 14; v. 258; p. 317.
- Styll, Harry H. (See Tillyer and Styll.)
- Styll, Harry H. and L. W. Bugbee, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,324,216; Dec. 9; v. 269; p. 231.
- Suau, Peter A., New York, N. Y. Intake-pipe or manifold for internal-combustion engines or the like. No. 1,326,378; Dec. 30; v. 269; p. 752.
- Subiecki, George, McAlpin, W. Va. Bomb. No. 1,292,408; Jan. 21; v. 258; p. 628.
- Submarine Arms Corporation. (See Myers, George F., assignor.)
- Submarine Salvage Company. (See Lindqvist, Carl J., assignor.)
- Submarine Signal Company. (See Fay, Harold J. W., assignor.)
- Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
- Submarine Signal Company. (See Fessenden and Leslie, assignors.)
- Submarine Signal Company. (See Perkins and Wood, assignors.)
- Suchla, Thomas, Courtenay, N. D. Harness-holder. No. 1,292,533; Jan. 28; v. 258; p. 680.
- Suck, Charles M., assignor of one-half to J. Harris, Salem, W. Va. Display-card holder. No. 1,309,705; July 15; v. 264; p. 379.
- Suckert, Harold C., New York, N. Y. Oil-level tester for engine crank-cases. No. 1,314,028; Aug. 26; v. 265; p. 495.
- Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Ejector apparatus. No. 1,296,567; Mar. 4; v. 260; p. 168.
- Suderlock, Samuel, Webster, Pa. Soldier's armor. No. 1,294,191; Feb. 11; v. 259; p. 315.
- Sudarov, Abraham, New York, N. Y. Cluster-setting. No. 1,317,237; Sept. 30; v. 266; p. 619.
- Sudiah, Rachel, New York, N. Y., assignor to W. A. Tooke, Montreal, Quebec, Canada. Soft fold-over collar. No. 1,320,183; Oct. 28; v. 267; p. 589.
- Suesman, Asa B., Springfield, Mass. Golf-club. No. 1,305,952; June 3; v. 263; p. 137.
- Suess, John B., Seattle, Wash. Automobile-headlight lens. No. 1,302,239; Apr. 29; v. 261; p. 889.
- Suffolk, Thomas E., Elizabeth, Pa. Bottle. No. 1,301,762; Apr. 22; v. 261; p. 769.
- Sugar Centrifugal Discharger Co. (See Roberts, Eugene, assignor.)
- Sugden, Thomas, London, and A. E. Fielding, Manchester, England. Steam-superheater. No. 1,318,185; Oct. 7; v. 267; p. 100.
- Sugg, Harvey, Ladysmith, Wis. Suspenders. No. 1,298,119; Mar. 25; v. 260; p. 597.
- Sugg, R. C., et al. (See Adece, Arthur L., assignor.)
- Sulenski, Stanislaw, Holyoke, Mass. Mouse-trap. No. 1,292,916; Jan. 28; v. 258; p. 771.
- Sulikx, Theodor, Barborton, Ohio. Rotary engine. No. 1,302,877; May 6; v. 262; p. 76.
- Sulitelma Aktiebolag. (See Westly, Jens, assignor.)
- Sullivan, Arthur B. (See Mott, Samuel D., assignor.)
- Sullivan, Daniel P. (See Kornetsky and Sullivan.)
- Sullivan, Denis R., assignor of one-half to J. R. Grace, Longville, La. Emergency railway-signal. No. 1,307,523; June 24; v. 263; p. 523.
- Sullivan, Edward F., Oakland, Calif. Tractor-chain. No. 1,308,308; July 1; v. 264; p. 55.
- Sullivan, Edward J. and H. P. Boak, Denver, Colo. Lubricator. No. 1,292,138; Jan. 21; v. 258; p. 566.
- Sullivan, Ernest. (See Macbeth and Sullivan.)
- Sullivan, Eugene C. and W. C. Taylor, assignors to Corning Glass Works, Corning, N. Y. Heating vessel. No. 1,304,622; May 27; v. 262; p. 506.
- Sullivan, Eugene C. and W. C. Taylor, assignors to Corning Glass Works, Corning, N. Y. Glass. No. 1,304,623; May 27; v. 262; p. 506.
- Sullivan, George T., Kinston, N. C. Tobacco-stick. No. 1,322,648; Nov. 25; v. 268; p. 698.
- Sullivan, Giles V., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., South Bethlehem, Pa. Hydraulic press for turbine-wheels. No. 1,307,764; June 24; v. 263; p. 567.



- Sullivan, Giles V., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Machine for setting turbine-blades. No. 1,319,732; Oct. 28; v. 267; p. 504.
- Sullivan, J. F., et al. (See Rial and Hebern, assignors.)
- Sullivan, James J., St. Thomas, Minn. Blotter. No. 1,308,688; July 1; v. 264; p. 125.
- Sullivan, John, et al. (See Higbee, Jesse P., assignor.)
- Sullivan, John J., Springfield, Mass. Trousers creaser and stretcher. No. 1,300,226; Apr. 8; v. 261; p. 391.
- Sullivan, Leonard J., North Sydney, New South Wales, Australia. Stud-fastener plate. No. 1,296,337; Mar. 4; v. 260; p. 118.
- Sullivan Machinery Company. (See Ball and Officer, assignors.)
- Sullivan Machinery Company. (See Gilman, George H., assignor.)
- Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
- Sullivan Machinery Company. (See Hunter, George D., assignor.)
- Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
- Sullivan Machinery Company. (See Nelson, Sven T., assignor.)
- Sullivan Machinery Company. (See Officer, Charles B., assignor.)
- Sullivan Machinery Company. (See Officer and Mercer, assignors.)
- Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
- Sullivan, Maurice, Toronto, Ontario, Canada. Machine for making pipe-flange insulations. No. 1,316,119; Sept. 16; v. 266; p. 324.
- Sullivan, Maurice P., Torrington, Conn., assignor to Splittorf Electrical Company, Newark, N. J. Spark-plug. No. 1,313,426; Aug. 19; v. 265; p. 348.
- Sullivan, Melville E. (See Musy and Sullivan.)
- Sullivan, Patrick G., assignor of one-half to J. W. Dyess, Hattiesburg, Miss. Valve-stem. No. 1,325,544; Dec. 23; v. 269; p. 560.
- Sullivan, Percy B., Decatur, Ill. Acetylene-gas-generating apparatus. No. 1,315,051; Sept. 2; v. 266; p. 106.
- Sullivan, Robert J., Sheldon, Iowa. Clothes-fastener. No. 1,293,572; Feb. 4; v. 259; p. 139.
- Sullivan, Samuel B., Pittsburgh, Pa. Auto lunch kit. No. 1,326,114; Dec. 23; v. 269; p. 666.
- Sullivan, William B., Chicago, Ill. Percussion-tool. No. 1,296,338; Mar. 4; v. 260; p. 118.
- Sullivan, William B., St. Louis, Mo. Removable saw-handle. No. 1,301,522; Apr. 22; v. 261; p. 722.
- Sullivan, William L., St. Louis, Mo. Check-issuing machine. No. 1,293,974; Feb. 11; v. 259; p. 263.
- Sullivan, William L., Ferguson, Mo. Ticket-issuing machine. No. 1,308,966; July 8; v. 264; p. 204.
- Sulman, Henry L. (See Hdser and Sulman.)
- Sulman, Henry L., and H. F. K. Picard, assignors to The Metals Extraction Corporation Limited, London, England. Extraction of zinc. No. 1,295,080; Feb. 18; v. 259; p. 555.
- Sulphur Syndicate. (See Foster, Arthur B., assignor.)
- Sultzman, John V., Hannibal, Mo. Saw-set. No. 1,323,656; Dec. 2; v. 269; p. 81.
- Sulwierski, Joseph, and G. Rasch, Decatur, Ill. Boiler. No. 1,312,062; Aug. 5; v. 265; p. 40.
- Sulzbacher, Samuel, Cincinnati, Ohio. Removable handle for vessels. No. 1,296,228; Mar. 4; v. 260; p. 94.
- Sulzberger, Nathan, New York, N. Y. Metal compound and producing the same. (Reissue.) No. 1,456; May 27; v. 262; p. 623.
- Suman, Rupert W., Newark, N. J., assignor to General Electric Company. Bulb-cutting machine. No. 1,315,799; Sept. 9; v. 266; p. 250.
- Sumbling, William H., Toronto, Ontario, Canada. Grinding-wheel guard. No. 1,294,565; Feb. 18; v. 259; p. 437.
- Sumbling, William H., Toronto, Ontario, Canada. Rectifying-machine for shells. No. 1,308,125; July 1; v. 264; p. 22.
- Summersille, Alano E., San Juan, Porto Rico. Paper-clip. No. 1,310,587; July 22; v. 264; p. 571.
- Summerfield, Emanuel P. (See Taylor, Aiken C., assignor.)
- Summerhayes, Henry R., Schenectady, N. Y., assignor to General Electric Company. Electricity transforming and converting apparatus. No. 1,301,334; Apr. 22; v. 261; p. 687.
- Summers, Bertrand S., Port Huron, Mich. Flax-scutcher. No. 1,306,032; June 10; v. 263; p. 181.
- Summers, Bertrand S., Port Huron, Mich. Scutcher. No. 1,313,841; Aug. 19; v. 265; p. 425.
- Summers, Caleb E., Kansas City, Mo., assignor to L. A. Summers, Oaktown, Ind. Carbureter. (Reissue.) No. 1,469; June 17; v. 263; p. 455.
- Summers, Charles E., Mannville, Alberta, Canada. Door-latch. No. 1,319,187; Oct. 21; v. 267; p. 379.
- Summers, Fred, Baltimore, Md. Carrying and dumping box. No. 1,320,350; Oct. 28; v. 267; p. 620.
- Summers, George L., Huntington, W. Va. Demountable rim for auto-wheels. No. 1,292,139; Jan. 21; v. 258; p. 566.
- Summers, Harvey H., Malvern, Iowa. Disk-sharpener. No. 1,316,520; Sept. 16; v. 266; p. 401.
- Summers, Laura A. (See Summers, Caleb E., assignor.) (Reissue.)
- Summers, Leland L., Chicago, Ill. Producing reactions in gases at high temperatures and apparatus for practicing the same. No. 1,291,660; Jan. 14; v. 258; p. 416.
- Summers, Leland L., Chicago, Ill. Ventilating and cooling. No. 1,310,511; July 22; v. 264; p. 557.
- Summers, Lewis C., et al. (See Egan and Jackson, assignors.)
- Summers, Paul J., Mangum, Okla. Knee-pad. No. 1,293,240; Feb. 4; v. 259; p. 61.
- Summers, Paul J., Mangum, Okla. Weighing-stand for cotton-pickers. No. 1,310,638; July 22; v. 264; p. 581.
- Summers, Walter, Hollisopple, Pa. Dirigible-headlight construction. No. 1,296,568; Mar. 4; v. 260; p. 168.
- Summerson, James, Emporium, Pa. Tire. No. 1,296,874; Mar. 11; v. 260; p. 275.
- Summerton, Ethel, Sheridan, N. Y. Gage-glass cleaner. No. 1,297,416; Mar. 18; v. 260; p. 422.
- Summey, David L., Waterbury, Conn., assignor to Scovill Manufacturing Company. Machine for extruding metal. No. 1,317,238; Sept. 30; v. 266; p. 619.
- Summy, Charles E., Primghar, Iowa. Artificial tooth. No. 1,298,419; Mar. 25; v. 260; p. 661.
- Sumner, Arthur D. (See Wilson and Sumner.)
- Sumner, John B., and R. W. Hicking, Worcester, Mass. Flying-machine. No. 1,292,662; Jan. 28; v. 258; p. 712.
- Sumner, Frederick W., Elizabeth, N. J. Memorandum-recorder. No. 1,322,649; Nov. 25; v. 268; p. 598.
- Sumption, A. L., et al. (See Winchester, Fred E., assignor.)
- Sun Shipbuilding Company. (See Pew, John H., assignor.)
- Sunbeam Chemical Company. (See Cates, Leland C., assignor.)
- Sunbeam Chemical Company. (See Huffman, Charles C., assignor.)
- Sunbeam Motor Car Company. (See Coatalen, Louis, assignor.)
- Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Separable fastener-slider. No. 1,302,606; May 6; v. 262; p. 23.
- Sundback, Gideon, Meadville, Pa., assignor to Hookless Fastener Company. Fastener for slit and other closures. No. 1,322,650; Nov. 25; v. 268; p. 598.
- Sundbaum, Frans E. L., Stockholm, Sweden. Pressure-gage log. No. 1,323,119; Nov. 25; v. 268; p. 686.
- Sundberg, Karl, Stockholm, Sweden. Selective flotation of minerals. No. 1,326,545; Dec. 30; v. 269; p. 784.
- Sundberg, William, Chicago, Ill. Grain-elevator and the like. No. 1,294,566; Feb. 18; v. 259; p. 437.
- Sundell, Carl J., Chicago, Ill. Combined toy and support. No. 1,318,024; Oct. 7; v. 267; p. 69.
- Sunderland, John F., Natick, Mass. Revolving door. No. 1,303,988; May 20; v. 262; p. 347.
- Sunderland, John P., Albany, N. Y., assignor to G. G. Milne, Rye, N. Y. Electric heating apparatus. No. 1,304,624; May 27; v. 262; p. 506.
- Sunderland, John P., Albany, N. Y., assignor to G. G. Milne, Rye, N. Y. Riveting. No. 1,304,625; May 27; v. 262; p. 506.
- Sunderland, John P., Albany, N. Y., assignor to G. G. Milne, Rye, N. Y. Electrical heating apparatus. No. 1,304,626; May 27; v. 262; p. 506.
- Sunderland, Sam. (See Midgley and Sunderland.)
- Sunderman Corporation. (See Sunderman, Frederick R., assignor.)
- Sunderman, Frederick R., Detroit, Mich., assignor to Sunderman Corporation, Newburgh, N. Y. Carbureter. No. 1,324,135; Dec. 9; v. 269; p. 216.
- Sundh, August, Hastings-upon-Hudson, assignor to National Clutch Co., Inc., New York, N. Y. Flexible tubing. No. 1,295,630; Feb. 25; v. 259; p. 706.
- Sundh, August, Hastings-upon-Hudson, assignor to National Clutch Company, New York, N. Y. Flexible tubing. No. 1,300,512; Apr. 15; v. 261; p. 478.
- Sundh, August, Hastings-upon-Hudson, assignor to National Clutch Co., Inc., New York, N. Y. Flexible tubing. No. 1,311,025; July 22; v. 264; p. 652.
- Sundh Electric Company. (See Larsen, Louis, assignor.)
- Sundh Electric Company. (See Smith, Larsen, and Pearson, assignors.)
- Sundstrand, Gustaf D. and O. J., assignors to Rockford Tool Company, Rockford, Ill. Lathe. No. 1,325,424; Dec. 16; v. 269; p. 520.
- Sundstrand, Oscar J. (See Sundstrand, Gustaf D. and O. J.)
- Sundstrom, Herman T., Houston, Tex. Linotype and intertype. No. 1,294,192; Feb. 11; v. 259; p. 315.
- Sundt, Carlos A., Santiago, Chile. Determining relative speed of moving bodies. No. 1,299,058; Apr. 1; v. 261; p. 102.
- Sundvahl, Richard A. (See Ford, Shelley W., assignor.)
- Sungail, John R., Cicero, Ill. Permutation-lock. No. 1,320,806; Nov. 4; v. 268; p. 84.
- Sunshine, Monroe, New York, N. Y. Sadiron. No. 1,317,998; Oct. 7; v. 267; p. 64.
- Super-Glass Company, The. (See Shuman, Constantine and V., assignors.)



*Alphabetical list of patentees—Continued.*

- Superheater Corporation, The. (See Robinson, John G., assignor.)
- Superior Hay Stacker Mfg. Co. (See Vroom, Oler P., assignor.)
- Superior Sign Company. (See Carse, David B., assignor.)
- Supplee, Henry H., New York, N. Y. Apparatus for obscuring submerged submarine boats and the like. No. 1,312,595; Aug. 12; v. 265; p. 171.
- Supplee, Charles H., Philadelphia, Pa. Automatic milk-cap-separating machine. No. 1,326,115; Dec. 23; v. 269; p. 666.
- Supplee, Samuel G., New York, N. Y. Denture-attaching device. No. 1,324,476; Dec. 9; v. 269; p. 282.
- Surbaugh, John S., Vincennes, Ind. Shovel, scoop, &c. No. 1,312,766; Aug. 12; v. 265; p. 204.
- Suren, Nathan H., Needham, Mass., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Temperature-indicator. No. 1,303,989; May 20; v. 262; p. 347.
- Suren, Nathan H., Needham, Mass., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Alarm-controller for sprinkler systems. No. 1,315,258; Sept. 9; v. 266; p. 153.
- Surety Tire & Rubber Company. (See Sterns, Edward, assignor.)
- Surface Combustion. (See Ellis, Carleton, assignor.)
- Surface Combustion. (See McCourt, Cyril D., assignor.)
- Surface Combustion Co., The. (See Eddison, William B., assignor.)
- Surface Combustion Company. (See Richardson, Eddison, and Read, assignors.)
- Surratt, William F., assignor of one-half to R. E. Shafer, Heber Springs, Ark. Huller. No. 1,324,185; Dec. 9; v. 269; p. 225.
- Susersky, John, Barberton, Ohio. Double safety-envelop. No. 1,307,278; June 17; v. 263; p. 445.
- Sussex, James E., Hope, N. D. Cross-head guide for engines. No. 1,310,512; July 22; v. 264; p. 557.
- Sussfeld, Lorch & Company. (See Anzelewitz, Abraham, assignor.)
- Sussmah, Cornelia M., Long Branch, N. J. Shirt-cuff. (Reissue.) No. 14,591; Feb. 11; v. 259; p. 356.
- Sutcliffe, Edgar R., Leigh, England. Treatment of metal scrap. No. 1,291,672; Jan. 14; v. 258; p. 419.
- Sutcliffe, Edgar R., Leigh, England, assignor to Pure Coal Briquettes Limited, Cardiff, Wales. Press applicable for the production of briquets and for other purposes. No. 1,312,367; Aug. 5; v. 265; p. 95.
- Sutcliffe, John, Riondel, British Columbia, Canada. Railway-crossing gate. No. 1,313,756; Aug. 19; v. 265; p. 400.
- Sutcliffe, Lennie E. L. (See Morris, Mabel M., assignor.)
- Sutcliffe, Tom, London, England. Concrete or like building-block and making the same. No. 1,316,521; Sept. 16; v. 266; p. 401.
- Suter, Frank F., West Unity, Ohio. Bag-holder. No. 1,290,405; Jan. 7; v. 258; p. 94.
- Sutherland, Alexander K., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Push-button switch. No. 1,292,140; Jan. 21; v. 258; p. 566.
- Sutherland, Alexander K., New Britain, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Lock for switch-handles. No. 1,305,178; May 27; v. 262; p. 610.
- Sutherland, Alexander K., assignor of one-half to H. O. Rockwell, New Britain, Conn. Milk-bottle carrier. No. 1,308,742; July 1; v. 264; p. 135.
- Sutherland, Benjamin F., McGill, Nev. Sleigh attachment for automobiles, &c. No. 1,305,629; June 3; v. 263; p. 77.
- Sutherland, Daniel M., Ashgrove, England. Varnish for applying to fabrics of aeroplanes. No. 1,320,290; Oct. 28; v. 267; p. 609.
- Sutherland, Elizabeth M., Kansas City, Mo. Garment-hanger. No. 1,291,242; Jan. 14; v. 258; p. 317.
- Sutherland, Fred W., Kalamazoo, Mich. Machine for and method of sealing waxed cartons. No. 1,316,120; Sept. 16; v. 266; p. 324.
- Sutkay, Joseph, Gary, Ind. Electric bomb. No. 1,321,259; Nov. 11; v. 268; p. 234.
- Sutter, Arthur, Annecy-Albigny, France. Electric lamp for dental and other uses. No. 1,323,420; Dec. 2; v. 269; p. 37.
- Sutter, Erwin L., Waseca, Minn. Washboard. No. 1,302,991; May 6; v. 262; p. 98.
- Sutton, Chester R., assignor to Perfection Cooling and Ventilating Company, Tucson, Ariz. Cooling system. No. 1,301,794; Apr. 22; v. 261; p. 776.
- Sutton, Francis A., Oakhurst, Ashford, England, assignor to C. C. Williams, acting chief of ordnance, U. S. Army, trustee. Fuse for projectiles. No. 1,313,651; Aug. 19; v. 265; p. 390.
- Sutton, Harry O., Denver, Colo. Mattress-sewing machine. No. 1,322,842; Nov. 25; v. 268; p. 633.
- Sutton, Henry M., and W. L. and E. G. Steele, Dallas, Tex. Process of and apparatus for sizing and separating comminuted material. No. 1,315,880; Sept. 9; v. 266; p. 266.
- Sutton, Henry M., and W. L. and E. G. Steele, Dallas, Tex. Process of and apparatus for separating and grading material. No. 1,315,881; Sept. 9; v. 266; p. 266.
- Sutton, Josiah C., Mount Pleasant, Mich. Heating-stove. No. 1,314,442; Aug. 26; v. 265; p. 575.
- Sutton, Remyer, Uniontown, Pa. Spark-plug. No. 1,298,821; Apr. 1; v. 261; p. 48.
- Suverkrop, Edward A., Sea Cliff, N. Y., and E. Viall, East Orange, N. J. Method of and means for rifling guns. No. 1,310,933; July 22; v. 264; p. 635.
- Suverkrop, Edward A., Sea Cliff, N. Y., and E. Viall, East Orange, N. J. Method of and means for rifling guns. No. 1,310,934; July 22; v. 264; p. 635.
- Suwalski, Alexander E., L. J. Leininger, and J. N. M. Wilson, assignors to Central City Chemical Company, Chicago, Ill. Fumigator. No. 1,316,066; Sept. 16; v. 266; p. 314.
- Suyehiro, Kunisuke, Eureka, Utah. Game. No. 1,321,405; Nov. 11; v. 268; p. 262.
- Suyehiro, Kyoji. (See Tsuchiya and Suyehiro.)
- Suzukawa, Iwao, Hiroshima, Japan. Paint for coating the bottoms of vessels. No. 1,315,748; Sept. 9; v. 266; p. 241.
- Suzzi, Taddeo C., Chicago, Ill. Peanut-blanching machine. No. 1,295,631; Feb. 25; v. 259; p. 706.
- Svebilius, Henry M., assignor to Pullman Couch Company, Chicago, Ill. Sofa-bed. No. 1,303,613; May 13; v. 262; p. 240.
- Svebilius, Henry M., assignor to Toy Tinkers, Evanston, Ill. Screw-cap container. No. 1,319,432; Oct. 21; v. 267; p. 425.
- Svensden, Niels P., Calgary, Alberta, Canada. Baby-crib. No. 1,311,782; July 29; v. 264; p. 826.
- Svenska Aktiebolaget Gasaccumulator. (See Dalén, Gustaf, assignor.)
- Svenska Aktiebolaget Gasaccumulators. (See Sjöström, Martin G., assignor.)
- Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
- Svenska Aktiebolaget Mono. (See Wener, Nils H., assignor.)
- Svenson, Carl J., New York, N. Y. Coat or like garment. No. 1,324,987; Dec. 16; v. 269; p. 439.
- Svensson, Johan A., assignor, by mesne assignments, to Ludwigsbergs Verkstads Aktiebolag, Stockholm, Sweden. Rotary pump or engine. No. 1,297,749; Mar. 18; v. 260; p. 494.
- Svensson, Nils, Malmö, Sweden. Combined outside and inside calipers. No. 1,318,239; Oct. 7; v. 267; p. 112.
- Svider, Stanislaw, and J. Lescinski, Fort Sill, Okla. Padlock. No. 1,307,158; June 17; v. 263; p. 423.
- Swaidmark, Albin P., assignor to Universal Industrial Corporation, Hackensack, N. J. Press mechanism. No. 1,303,520; May 13; v. 262; p. 223.
- Swain, George F., Chicago, Ill. Flying-machine. No. 1,298,120; Mar. 25; v. 260; p. 597.
- Swain, Mack M., Los Angeles, Calif., assignor of forty one-hundredths to C. C. Conklin, Fumigating-tent. No. 1,322,149; Nov. 18; v. 268; p. 451.
- Swales, Frank, assignor to Swales Specialty Co. Inc., New York, N. Y. Bit attachment. No. 1,291,243; Jan. 14; v. 258; p. 318.
- Swales Specialty Co. (See Swales, Frank, assignor.)
- Swallender, Swante J. P., assignor of one-half to W. M. Udegrove, Chicago, Ill. Clothes-pressing machine. No. 1,294,567; Feb. 18; v. 259; p. 438.
- Swallow, Oscar L., Fort Worth, Tex. Center rail for key-actions. No. 1,319,188; Oct. 21; v. 267; p. 379.
- Swan, Alfred, Montclair, N. J., assignor to General Electric Company, Apparatus for basing incandescent lamps. No. 1,306,643; June 10; v. 263; p. 297.
- Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Percolator. No. 1,309,374; July 8; v. 264; p. 280.
- Swan, Frederick A., Cliftondale, Mass. Meteorological apparatus. No. 1,320,291; Oct. 28; v. 267; p. 609.
- Swan, Frederick A., Cliftondale, Mass. Automatic fire-alarm. No. 1,326,304; Dec. 30; v. 269; p. 738.
- Swan, Harry B., Detroit, Mich. Core-machine. No. 1,311,425; July 29; v. 264; p. 760.
- Swan, John C., Marietta, Ohio. Excluding water from drilled wells for oil. No. 1,307,027; June 17; v. 263; p. 400.
- Swan, John C., Marietta, Ohio. Excluding extraneous fluids from wells. No. 1,317,462; Sept. 30; v. 266; p. 662.
- Swan, John H., Chicago, Ill. Pressure-regulator. No. 1,295,632; Feb. 25; v. 259; p. 706.
- Swan, John H., Chicago, Ill. Expansion-motor. No. 1,314,376; Aug. 26; v. 265; p. 562.
- Swanberg, Arthur W., Minneapolis, Minn., assignor to W. B. Berryman, Lima, Ohio. Leak-proof composition for tires. No. 1,326,007; Dec. 23; v. 269; p. 646.
- Swank, Edgar W., Liberty, Mo. Cash-book. No. 1,297,417; Mar. 18; v. 260; p. 422.
- Swank, Lafe, Anderson, Ind., assignor to Dwiggins Wire Fence Company, Anderson, Ind. Twister-head. No. 1,316,000; Sept. 16; v. 266; p. 303.
- Swann, Charles D., Mogollon, N. Mex. Nut-lock. No. 1,292,970; Jan. 28; v. 258; p. 784.
- Swann, Harington, Kemerton, near Tewkesbury, England. Pen. No. 1,311,026; July 22; v. 264; p. 652.
- Swanson, Arthur C. (See Johnson, Swanson, and Utterberg.)



- Swanson, Axel W., assignor to The Holmquist-Swanson Company, Chicago, Ill. Extensible gate. No. 1,323,657; Dec. 2; v. 269; p. 81.
- Swanson, Victor. (See Larson, Julius, assignor.)
- Swanson, Carl. (See Strom and Swanson.)
- Swanson, Carl W., Chicago, Ill. Power-driven washing-machine. No. 1,300,203; Apr. 8; v. 261; p. 386.
- Swanson, Charles A., Chicago, Ill. Screw-cap lock. No. 1,290,406; Jan. 7; v. 258; p. 94.
- Swanson, Edward, Sheffield, Ill. Knockdown hen's nest. No. 1,315,432; Sept. 9; v. 266; p. 185.
- Swanson, Frank T., Hayward, Calif. Spring suspension for motor-vehicles. No. 1,315,052; Sept. 2; v. 266; p. 106.
- Swanson, Gustave O., Vancouver, British Columbia, Canada. Calking-tool. No. 1,298,121; Mar. 25; v. 260; p. 598.
- Swanson, Hilma S., New Rochelle, N. Y. Garment-hanger. No. 1,299,390; Apr. 1; v. 261; p. 176.
- Swanson, John N., Houston, Tex. Charge-firing pin. No. 1,290,680; Jan. 7; v. 258; p. 162.
- Swanson, Ludwig, Detroit, Mich. Tool-holder. No. 1,300,042; Apr. 8; v. 261; p. 351.
- Swanson, Nels A., Rock Island, Ill. Ash-pan. No. 1,315,259; Sept. 9; v. 266; p. 154.
- Swanson, Olof. (See Tobiasson and Swanson.)
- Swanson, Selviyor A., North Tonawanda, N. Y. Pneumatic action for automatic musical instruments. No. 1,314,163; Aug. 26; v. 265; p. 520.
- Swanson, Theodore, Lynn Center, Ill. Ice-former device. No. 1,311,723; July 29; v. 264; p. 815.
- Swanson, Frederick J., Christchurch, New Zealand. Means for lighting and extinguishing gas-lamps. No. 1,307,644; June 24; v. 263; p. 545.
- Swart, Charles E., and G. W. Smith, Chattanooga, Tenn. Piston-ring compressor. No. 1,303,614; May 13; v. 262; p. 240.
- Swart, Walter G., Duluth, Minn., and B. G. Klugh, Anniston, Ala. Treating concentrates. No. 1,303,411; May 13; v. 262; p. 203.
- Swarthout, Joseph, Lodi, N. Y. Engine attachment. No. 1,296,018; Mar. 4; v. 260; p. 45.
- Swartz, Albert, Toledo, Ohio. Ticket issuing and collecting. No. 1,319,254; Oct. 21; v. 267; p. 391.
- Swartz, Charles, New York, N. Y. Sharpening device. No. 1,318,025; Oct. 7; v. 267; p. 70.
- Swartz Electric Co. (See Reese, Edward B., assignor.)
- Swartz Electric Co. (See Weaver, Albert E., assignor.)
- Swartz Electric Company. (See Coffman, Roscoe A., assignor.)
- Swartz Electric Company. (See Myers, Clyde J., assignor.)
- Swartz Electric Company. (See Swartz, Ira T., assignor.)
- Swartz Electric Company. (See Swartz and Wallace, assignors.)
- Swartz, George W., assignor to Acme Harvesting Machine Company, Peoria, Ill. Self-propelled vehicle. No. 1,310,772; July 22; v. 264; p. 605.
- Swartz, Guy E., Detroit, Mich. Adjustable drill-jig. No. 1,312,767; Aug. 12; v. 265; p. 204.
- Swartz, Ira T., assignor to Swartz Electric Company, Indianapolis, Ind. Mounting for electric generators. No. 1,293,573; Feb. 4; v. 259; p. 139.
- Swartz, Ira T., and A. T. Wallace, assignors to Swartz Electric Company, Indianapolis, Ind. Timer for internal-combustion engines. No. 1,293,574; Feb. 4; v. 259; p. 139.
- Swasey, Cornelius B., Providence, assignor to F. G. Rowley, Pawtucket, R. I. Machine for loading cartridges. No. 1,325,339; Dec. 16; v. 269; p. 505.
- Swayngim, James W., East Laport, N. C. Cane-stripper. No. 1,311,191; July 29; v. 264; p. 716.
- Sweeden, Fred P. (See Holland and Sweeden.)
- Sweeney, Daniel M., South Bend, Ind. Spark-plug. No. 1,317,834; Oct. 7; v. 267; p. 33.
- Sweeney, Frank A., et al. (See Kenney, Frank L., assignor.)
- Sweeney, James P., Saugerties, N. Y. Can-opener. No. 1,314,226; Aug. 26; v. 265; p. 533.
- Sweeney, William H. (See Jilison and Sweeney.)
- Sweeney, William P., Minneapolis, Minn. Signal-torpedo. No. 1,296,135; Mar. 4; v. 260; p. 74.
- Sweet, Arthur E., assignor to G. Penketh and G. Rodgers, Portland, Ore. Oil-burner. No. 1,318,020; Oct. 14; v. 267; p. 321.
- Sweet, Burton W., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Brush-holder for dynamo-electric machines. No. 1,307,028; June 17; v. 263; p. 401.
- Sweet, Burton W., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Electric switch. No. 1,326,619; Dec. 30; v. 269; p. 798.
- Sweet, Charles H., Elkhart, Ind. Nut-lock. No. 1,314,164; Aug. 26; v. 265; p. 521.
- Sweet, Harlan P., Gardena, Calif. Quick-detachable shipping-case cover. No. 1,316,818; Sept. 23; v. 266; p. 504.
- Sweet, John A., New Kensington, assignor to Window Glass Machine Company, Pittsburgh, Pa. Drawing glass. No. 1,295,158; Feb. 25; v. 259; p. 597.
- Sweet, Parker H., Boonton, N. J. Gin or linter saw. No. 1,308,967; July 8; v. 264; p. 204.
- Sweetland, Ernest J., Montclair, N. J. Filter medium or other article of manufacture. No. 1,304,918; May 27; v. 262; p. 561.
- Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,292,534; Jan. 28; v. 258; p. 680.
- Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,305,317; June 3; v. 263; p. 17.
- Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,313,929; Aug. 26; v. 265; p. 476.
- Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Apparatus for removing and reclaiming solids from gases. No. 1,321,490; Nov. 11; v. 268; p. 277.
- Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter-leaf construction. No. 1,323,421; Dec. 2; v. 269; p. 37.
- Sweetland, Ernest J., Montclair, N. J., F. W. Manning and W. S. Hilpert, Chicago, Ill., assignors, by mesne assignments, to said Sweetland. Coated fabric. No. 1,292,535; Jan. 28; v. 258; p. 681.
- Sweetnam, Robert L., Armington, Ill. Band-wheel for sausage-grinders. No. 1,308,968; July 8; v. 264; p. 204.
- Sweigard, Emanuel W., assignor to The Sweigard Ideal Company, Chicago, Ill. Pneumatic contact frame. No. 1,315,882; Sept. 9; v. 266; p. 267.
- Sweigard Ideal Company, The. (See Sweigard, Emanuel W., assignor.)
- Switzer, Samuel K., New Freedom, Pa. Wrench. No. 1,311,724; July 29; v. 264; p. 816.
- Swensen, Alfred, Cicero, assignor to The Cable Company, Chicago, Ill. Automatic musical instrument. No. 1,321,860; Nov. 18; v. 268; p. 398.
- Swenson, George E., assignor to The Barrett Company, Philadelphia, Pa. Flashing-receptacle. No. 1,308,205; July 1; v. 264; p. 37.
- Swenson, John S., Cresco, Iowa, and F. E. Stehlik, Oak Park, Ill. Lightning-rod. No. 1,303,739; May 13; v. 262; p. 263.
- Swenson, Martin, Passaic, assignor to Standard Bleachery Company, Carlton Hill, N. J. Fabric-guiding device. No. 1,315,750; Sept. 9; v. 266; p. 241.
- Swenson, Paul, West Minneapolis, Minn. Hydraulic pump. No. 1,296,875; Mar. 11; v. 260; p. 275.
- Swerdfeger, Elbert B., Denver, Colo. Tonsillotome. No. 1,291,244; Jan. 14; v. 258; p. 318.
- Swerdfeger, Ray H., Los Angeles, Calif. Receptacle. No. 1,305,630; June 3; v. 263; p. 77.
- Swift, Arthur H., assignor to American Tag Company, Chicago, Ill. Package-fastener. No. 1,309,492; July 8; v. 264; p. 302.
- Swift, Charles E., Brookline, Mass., assignor to A. D. Little, Incorporated, Cambridge, Mass. Stencil-blank. No. 1,316,067; Sept. 16; v. 266; p. 315.
- Swift, Charles E., Brookline, assignor to Arthur D. Little, Incorporated, Cambridge, Mass. Alcoholic zein solution. No. 1,320,508; Nov. 4; v. 268; p. 28.
- Swift, Charles E., Brookline, assignor to Arthur D. Little, Incorporated, Cambridge, Mass. Composite mica body and making same. No. 1,320,509; Nov. 4; v. 268; p. 28.
- Swick, Clyde E., San Francisco, Calif., assignor, by mesne assignments, to Hawley Pulp and Paper Company. Paper-interfolding machine. No. 1,302,240; Apr. 29; v. 261; p. 889.
- Swick, Clyde E., San Francisco, Calif., assignor to Hawley Pulp and Paper Company. Interfolding paper. No. 1,302,241; Apr. 29; v. 261; p. 890.
- Swickard, Dan B., Galva, Ill. Tool. No. 1,320,103; Oct. 28; v. 267; p. 574.
- Swift, Charles L., Peabody, Mass. Fusible link for sprinkler-heads. No. 1,323,422; Dec. 2; v. 269; p. 37.
- Swift, Charles S., assignor to C. G. Aldrich, Somerville, Mass. Reel for eyeglasses. No. 1,309,110; July 8; v. 264; p. 232.
- Swift and Company. (See Richardson, William D., assignor.)
- Swift and Company. (See Wilson, Howard M., assignor.)
- Swift, Edwin M., Seattle, Wash. Single-truck car. No. 1,300,787; Apr. 15; v. 261; p. 536.
- Swift, Frank E., et al. (See Swift, William H., assignor.)
- Swift, George W., Jr., Bordentown, N. J. Dividing board or flat for egg-case fillers. No. 1,302,992; May 6; v. 262; p. 98.
- Swift, George W., Jr., Bordentown, N. J. Binding and heading band for barrels, boxes and the like. No. 1,307,705; June 24; v. 263; p. 567.
- Swift, George W., Jr., Bordentown, N. J. Window-envelop. No. 1,324,628; Dec. 9; v. 269; p. 311.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Receptacle for drinking-cups. No. 1,291,245; Jan. 14; v. 258; p. 318.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Transparent paper and making the same. No. 1,302,100; Apr. 29; v. 261; p. 868.



## Alphabetical list of patentees—Continued.

- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Container for drinking-cups. No. 1,324,753; Dec. 9; v. 269; p. 334.
- Swift, William H., deceased, Brooklyn, N. Y.; W. H. Swift, administrator, assignor of one-third to F. E. Swift and two-thirds to W. H. Swift, New York, N. Y. Hammer. No. 1,302,878; May 6; v. 262; p. 76.
- Swift, William H., deceased, New York; W. H. Swift, Brooklyn, administrator, assignor of one-third to F. E. Swift and two-thirds to W. H. Swift, New York, N. Y. Attachment for hammers. No. 1,302,879; May 6; v. 262; p. 76.
- Swigert, Joseph O., assignor of one-third to J. G. Wirt, Indianapolis, Ind. Beater or mixer. No. 1,292,141; Jan. 21; v. 258; p. 567.
- Swinburne, Thomas, Moline, Ill. Combination transfer caliper-arm. No. 1,294,723; Feb. 18; v. 259; p. 473.
- Swindler, Samuel C., Pratt, Kans. Automatic sign. No. 1,313,757; Aug. 19; v. 265; p. 419.
- Swinehart, James A., Akron, Ohio. Vehicle-tire. No. 1,309,308; July 8; v. 264; p. 268.
- Swing, Alfred J., Cincinnati, Ohio. Talking-machine. No. 1,304,404; May 20; v. 262; p. 426.
- Swinger, Frank A., Flatt, Ill. Carrier. No. 1,324,854; Dec. 16; v. 269; p. 414.
- Swinglehurst, Harry, Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Yarn-feeding mechanism for knitting-machines. No. 1,292,917; Jan. 28; v. 258; p. 772.
- Swinglehurst, Harry, Laconia, N. H., assignor, by mesne assignments, to Scott & Williams, Incorporated. Dial-holding mechanism for knitting-machines. No. 1,311,099; July 22; v. 264; p. 666.
- Swinglehurst, Harry, Orange, N. J., assignor to Scott and Williams Inc., Boston, Mass. Knitting-machine needle-dial. No. 1,314,377; Aug. 26; v. 265; p. 562.
- Swint, James T., Wrens, Ga. Tire-patch. No. 1,294,322; Feb. 11; v. 259; p. 345.
- Swint, Wendell R., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Explosive composition. No. 1,307,766; June 24; v. 263; p. 567.
- Swint, Wendell R., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Explosive. No. 1,309,553; July 8; v. 264; p. 314.
- Swisher, Edmund C., Los Angeles, Cal. Oil-burner. No. 1,293,241; Feb. 4; v. 259; p. 61.
- Swisher, William J., Conway Springs, assignor of one-half to A. Daniel, Toronto, Kans. Frost-proof window. No. 1,317,110; Sept. 23; v. 266; p. 559.
- Swisky, Robert, Chicago, Ill. Brush. No. 1,316,856; Sept. 23; v. 266; p. 511.
- Swiss Magneto Company. (See Horning, Frederick H., assignor.)
- Switzer, A. I. (See Wilcox and McIntire, assignors.)
- Swohoda, Boleslaw, East St. Louis, Ill. Pot-lifter and lid-holder. No. 1,319,433; Oct. 21; v. 267; p. 425.
- Sykes, Frank B. (See Schwab and Sykes.)
- Sykes, George, Penryn, Cal. Sizing apparatus. No. 1,295,812; Feb. 25; v. 259; p. 748.
- Sykes, Henry, Sheffield, England. Flexible coupling for transmission of power. No. 1,297,507; Mar. 18; v. 260; p. 441.
- Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Connecting-rod and toggle for pneumatic drills, air-tools, and the like. No. 1,318,704; Oct. 14; v. 267; p. 260.
- Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Piston-rod and toggle for motors, pneumatic drills, air-tools, and the like. No. 1,318,705; Oct. 14; v. 267; p. 260.
- Sykes, Lewis, Camden, N. J., assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Eccentric for pneumatic tools and the like. No. 1,318,818; Oct. 14; v. 267; p. 282.
- Sykes, Wilfred, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed-control system for induction-motors. No. 1,296,136; Mar. 4; v. 260; p. 74.
- Sykes, William E., Slough, England. Machine for cutting double helical teeth in gear-wheels. No. 1,323,120; Nov. 25; v. 268; p. 686.
- Sykora, John E., Windom, Minn. Carbureting apparatus for internal-combustion engines. No. 1,296,711; Mar. 11; v. 260; p. 237.
- Sylvan, Joseph, Chicago, Ill. Ventilator. No. 1,301,195; Apr. 22; v. 261; p. 659.
- Sylvan, Joseph, Chicago, Ill. Ventilator. No. 1,306,866; June 17; v. 263; p. 370.
- Sylvan, Joseph, Chicago, Ill. Ventilator. No. 1,317,239; Sept. 30; v. 266; p. 619.
- Sylvan, Joseph, assignor of one-half to L. A. Ruda, Chicago, Ill. Ventilator. No. 1,293,975; Feb. 11; v. 259; p. 263.
- Sylvan, Joseph, Chicago, Ill. Ventilator. No. 1,295,813; Feb. 25; v. 259; p. 748.
- Sylvester, Thomas J., Philadelphia, Pa. War-game apparatus. No. 1,299,391; Apr. 1; v. 261; p. 176.
- Sylvester, Walter, Tunstall, England. Chain-coupling and chain-adjusting appliance. No. 1,303,521; May 13; v. 262; p. 223.
- Symington, Thomas H., Rochester, N. Y. Plate-spring friction. No. 1,292,536; Jan. 28; v. 258; p. 681.
- Symington, Thomas H., Baltimore, Md. Friction draft-rigging. No. 1,318,186; Oct. 7; v. 267; p. 100.
- Symons, John. (See Beecher and Symons.)
- Synck, Henry, assignor to New Idea Spreader Co., Coldwater, Ohio. Manure-spreader. No. 1,313,427; Aug. 19; v. 265; p. 348.
- Synck, Henry, assignor to New Idea Spreader Co., Coldwater, Ohio. Feeding mechanism. No. 1,320,657; Nov. 4; v. 268; p. 56.
- Synthetic Hydrocarbon Company. (See Slocum and Stutz, assignors.)
- Synthetic Patents Co. (See Grüttefien, Wilhelm, assignor.)
- Synthetic Patents Co. (See Heymann, Dressel, Kothe, and Ossenbeck, assignors.)
- Sypho-Chemical Sprinkler Corporation. (See Brodton, Edward R., assignor.)
- Sypho-Chemical Sprinkler Corporation. (See Hamilton, John R., assignor.)
- Sypho-Chemical Sprinkler Corporation. (See Thompson, Everett L., Jr., assignor.)
- Syracuse Chilled Plow Company. (See Lee, William H., assignor.)
- Syracuse Faucet and Valve Company, The. (See Keeler and Brightman, assignors.)
- Syracuse Smelting Works. (See Levy, Abraham H., assignor.)
- Syrett, Herbert, Brooklyn, N. Y. Folding grill and ap-purtenance. No. 1,309,049; July 8; v. 264; p. 221.
- Szafranski, Frank L., Detroit, Mich. Swimming device. No. 1,304,919; May 27; v. 262; p. 561.
- Szaniszlo, Frank, Cleveland, Ohio. Combination milk and letter box. No. 1,296,712; Mar. 11; v. 260; p. 237.
- Szarka, August, Vestaburg, Pa. Car-coupling. No. 1,294,724; Feb. 18; v. 259; p. 473.
- Szekely, Otto E., Rock Island, assignor to Velie Motors Corporation, Moline, Ill. Tractor. No. 1,292,142; Jan. 21; v. 258; p. 567.
- Szekely, Otto E., Rock Island, assignor to Velie Motors Corporation, Moline, Ill. Water-pump. No. 1,295,234; Feb. 25; v. 259; p. 614.
- Szemanski, Stefan, San Francisco, Calif. Automobile-top. No. 1,301,619; Apr. 22; v. 261; p. 739.
- Szoka, Bronislaw. (See Buczynski and Szoka.)
- Szold, Louis, Valparaiso, Ind. Revolving show-case. No. 1,298,822; Apr. 1; v. 261; p. 48.
- Szydowski, Paul, Detroit, Mich. Steering-wheel lock for motor-driven vehicles. No. 1,322,736; Nov. 25; v. 268; p. 614.
- Szynalawski, Frank, Cobalt, Ontario, Canada. Rail-joint. No. 1,300,895; Apr. 15; v. 261; p. 559.
- T. A. Gillespie Company. (See Coffey, Michael J., assignor.)
- T. A. Gillespie Company. (See De Laval, George, assignor.)
- T. A. Willson & Co. (See Shindel, Harry F., assignor.)
- T. A. Willson & Co. (See Willson, Frederick, assignor.)
- T. H. Symington Company, The. (See Barrows, Donald S., assignor.)
- T. H. Symington Company. (See Cochrane, Robert B., assignor.)
- T. L. Smith Company. (See Draeger, Lloyd H., assignor.)
- T. L. Smith Company, The. (See Albrecht, John H., assignor.)
- T. S. Simms and Company. (See Purdy, Simeon D., assignor.)
- Tabler, Harry C. (See Dougherty and Tabler.)
- Tabler, John H., Lanham, Md. Buckle. No. 1,324,629; Dec. 9; v. 269; p. 311.
- Tabour, Josephine L., Englewood, Colo. Jar-cap handle. No. 1,296,339; Mar. 4; v. 260; p. 118.
- Tabulating Machine Company, The. (See Hollerith, Herman, assignor.)
- Tackaberry, William J., Fort Worth, Tex. Washing-machine. No. 1,292,143; Jan. 21; v. 258; p. 567.
- Tacke, Alvin W., Tampa, Fla. Counterboring-tool. No. 1,316,201; Sept. 16; v. 266; p. 339.
- Tacy, Charles, Batavia, N. Y. Floor-scraper. No. 1,311,538; July 29; v. 264; p. 782.
- Taege, Edward F. (See Taege, Otto A. and E. F.)
- Taege, Otto A. and E. F., Seward, Nebr. Automatic auto-lift. No. 1,305,024; May 27; v. 262; p. 581.
- Taege, Otto A. and E. F., Seward, Nebr. Automobile-jack. No. 1,319,934; Oct. 28; v. 267; p. 543.
- Taebert, Edmund E., Los Angeles, Calif. Pressure-controlled switch. No. 1,304,217; May 20; v. 262; p. 389.
- Taebert, Edmund E., assignor to L. M. Harvey, Los Angeles, Calif. Electric-generator governor. No. 1,316,466; Sept. 16; v. 266; p. 390.
- Taft, John A., assignor to Reagan Bale Company, San Antonio, Tex. Clutch. No. 1,293,242; Feb. 4; v. 259; p. 61.
- Taft, John A., assignor to Reagan Bale Company, San Antonio, Tex. Apparatus for making cylindrical cotton-bales. No. 1,316,202; Sept. 16; v. 266; p. 340.
- Taft-Peirce Manufacturing Company, The. (See Bryant, Elmer J., assignor.)
- Taft-Peirce Manufacturing Company, The. (See Martell, Albert A., assignor.)
- Taft-Peirce Manufacturing Company, The. (See Smith, Milton A., assignor.)
- Taft, Robert C., Moline, Ill. Car-underframe. No. 1,311,192; July 29; v. 264; p. 716.



- Taft, Sydney E. (See Gooding and Taft.)
- Tagert, James A., East Greenville, Pa. Light-support. No. 1,326,221; Dec. 30; v. 269; p. 723.
- Tagg, Frederic, Endiang, Alberta, Canada. Nut-lock. No. 1,325,340; Dec. 16; v. 269; p. 505.
- Taggart, Alfred, Baltimore, Md. Plaster's darby. No. 1,307,939; June 24; v. 263; p. 599.
- Taggart, Claude L., Jamestown, N. Y. Combined letter-sheet and envelop. No. 1,303,412; May 13; v. 262; p. 203.
- Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,312,768; Aug. 12; v. 265; p. 204.
- Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,326,546; Dec. 30; v. 269; p. 784.
- Taggart, George M., assignor of one-half to S. H. Yerkes, Philadelphia, Pa. Regulator for furnaces. No. 1,300,788; Apr. 15; v. 261; p. 536.
- Taggart, George M., assignor of one-half to S. H. Yerkes, Philadelphia, Pa. Forced-draft device. No. 1,321,948; Nov. 18; v. 268; p. 414.
- Taggart, John M., Springfield, Ohio. Mixing and conveying apparatus. No. 1,295,814; Feb. 25; v. 259; p. 748.
- Taggart, William L., Indianapolis, Ind. Machine for cutting the tops of dough loaves. No. 1,319,189; Oct. 21; v. 267; p. 379.
- Tainan Seito Kabushiki Kaisha. (See Nagashima, Hajime, assignor.)
- Tainton, Uryln C., Doornfontein, Johannesburg, Transvaal, South Africa. Roasting ores or concentrates. No. 1,310,455; July 22; v. 264; p. 547.
- Tait, Alfred D., Evanston, Ill. Dump-car. No. 1,311,140; July 22; v. 264; p. 673.
- Tait, Godfrey M. S., U. S. Army. Method of and means for detecting gases. No. 1,305,025; May 27; v. 262; p. 581.
- Tajima, Yoshiuji, Higashinari-Gun, Osaka-Fu, Japan. Water-gage. No. 1,294,568; Feb. 18; v. 259; p. 438.
- Taka, Otto R., Chicago, Ill. Motion-picture camera and projector. No. 1,309,665; July 15; v. 264; p. 372.
- Takacs, Louis, Bridgeport, Conn. Damper-regulating mechanism for furnaces. No. 1,318,118; Oct. 7; v. 267; p. 87.
- Takacs, Steve, Harvey, Ill. Folding baby-crib. No. 1,296,569; Mar. 4; v. 260; p. 168.
- Takahashi, Dannojo, Portland, Oreg. Baking-machine. No. 1,303,128; May 6; v. 262; p. 124.
- Takasaki, Shojiro, and J. Miyamoto, Shiga-Ken, Japan. Secondary coil. No. 1,311,725; July 29; v. 264; p. 816.
- Takeuchi, Masayoshi, Seattle, Wash. Cot. No. 1,311,579; July 29; v. 264; p. 788.
- Talbert, Thomas B., Huntington Beach, Calif. Oil-cloth. No. 1,300,043; Apr. 8; v. 261; p. 351.
- Talbot, Adjutor L. P., Montreal, Quebec, Canada. Boat. No. 1,301,523; Apr. 22; v. 261; p. 722.
- Talbot Air Lift Company. (See Edwards, Levi T., assignor.)
- Talbot, Benjamin, Middlesbrough, England. Removing cavities in recently-cast ingots. No. 1,294,193; Feb. 11; v. 259; p. 315.
- Talbot, Richard J., Springfield, Mass. Automobile-tire. No. 1,298,122; Mar. 25; v. 260; p. 598.
- Talbot, Willard E., Dayton, Ohio. Oil-cooling device. No. 1,318,706; Oct. 14; v. 267; p. 261.
- Talbot, William W., assignor of one-half to H. P. Simmons, Baltimore, Md. Adding-machine. No. 1,298,599; Mar. 25; v. 260; p. 700.
- Talcott, Frank. (See Shoenberg and Talcott.)
- Taliaferro, John C. (See Warne and Taliaferro.)
- Taliaferro, John C., Baltimore, Md., assignor to Continental Can Company, Syracuse, N. Y. Can-end-feeding mechanism. No. 1,320,292; Oct. 28; v. 267; p. 609.
- Taliaferro, Thomas L., Chicago, Ill. Forming sealing-rings for covers. No. 1,299,259; Apr. 1; v. 261; p. 146.
- Taliaferro, Thomas L., La Grange, Ill. Jar-closure. No. 1,300,896; Apr. 15; v. 261; p. 559.
- Taliaferro, Thomas L., Chicago, Ill. Metal container for shoe-polish and the like. No. 1,324,528; Dec. 9; v. 269; p. 292.
- Taliaferro, Thomas L., Chicago, Ill. Jar-closure. No. 1,325,056; Dec. 16; v. 269; p. 452.
- Taliaferro, Thomas L., assignor to Phoenix-Hermetic Company, Chicago, Ill. Lacquering sheet metal. No. 1,312,815; Aug. 12; v. 265; p. 214.
- Taliaferro, Thomas L., assignor to Phoenix-Hermetic Company, Chicago, Ill. Drying-oven. No. 1,318,187; Oct. 7; v. 267; p. 101.
- Talla, Heinrich, Hellbronn, Germany, assignor to Präzisionsgusswerke System Schmidt-Reichardt G. m. b. H., Frankfurt-on-the-Main, Germany. Apparatus for casting metals. No. 1,302,450; Apr. 29; v. 261; p. 931.
- Tallaksen, Olaf, Washington, D. C. Refrigerator. No. 1,291,246; Jan. 14; v. 258; p. 318.
- Talley, Edwin R., Grinnell, Iowa. Life-protecting body-guard. No. 1,290,799; Jan. 7; v. 258; p. 189.
- Tallmadge, Charles H., assignor to W. R. Heath, Buffalo, N. Y. Accounting mechanism. No. 1,301,795; Apr. 22; v. 261; p. 776.
- Tallmadge, Charles H., Buffalo, N. Y. Means and method for accounting. No. 1,319,914; Oct. 28; v. 267; p. 931.
- Tallman, Adam B., Shelbyville, Ill. Axle-straightening device. No. 1,319,434; Oct. 21; v. 267; p. 425.
- Tallman, Albert R., Nashville, Tenn. Watch and fob appliance. No. 1,323,333; Dec. 2; v. 269; p. 21.
- Tally, P. P., et al. (See Dubbs, Edward, assignor.)
- Talmage, Charles H., New Bedford, Mass. Tidal-power plant. No. 1,313,965; Aug. 26; v. 265; p. 483.
- Talpa, John, and J. Bednarz, Detroit, Mich. Weapon. No. 1,299,260; Apr. 1; v. 261; p. 147.
- Talton, Vander H., assignor to Lummus Cotton Gin Company, Columbus, Ga. Cotton-cleaner. No. 1,292,918; Jan. 28; v. 258; p. 772.
- Tam, Oscar S. (See Nelson, Gustaf T., assignor.)
- Tamaki, Yosi, Los Angeles, Calif. Blowpipe. No. 1,314,914; Sept. 2; v. 266; p. 81.
- Tamburello, Benedetto, New York, N. Y. Filler for tires. No. 1,318,026; Oct. 7; v. 267; p. 70.
- Tamburello, Benedetto, New York, N. Y. Demountable rim for tires. No. 1,320,104; Oct. 28; v. 267; p. 574.
- Tammi, Einar, Milwaukee, Wis. Hinge for safes. No. 1,326,305; Dec. 30; v. 269; p. 738.
- Tampier, René J. C., Boulogne-sur-Seine, France. Feeding apparatus for internal-combustion motors. No. 1,296,229; Mar. 4; v. 260; p. 94.
- Tampier, René J. C., Boulogne-sur-Seine, France. Valve mechanism. No. 1,306,867; June 17; v. 263; p. 370.
- Tams, Frederick G. (See Thomas and Tams.)
- Tanaka, Nawokichi, Boston, Mass. Crank-piston connector. No. 1,309,917; July 15; v. 264; p. 419.
- Tank Heater Co. (See Austin, William P., assignor.)
- Tankersley, William, Denver, Colo. Collapsible umbrella. No. 1,313,966; Aug. 26; v. 265; p. 483.
- Tankersley, William, assignor of one-tenth to H. Sachs, Colorado Springs, and one-tenth to F. Finney, La Junta, Colo. Wrench. No. 1,293,243; Feb. 4; v. 259; p. 62.
- Tannas, Einar A., Ambrose, N. D. Self-feeding container. No. 1,313,613; Aug. 19; v. 265; p. 383.
- Tannehill, Harley, assignor to himself and F. G. Schwier, Fort Wayne, Ind. Rim breaker and extender. No. 1,301,884; Apr. 29; v. 261; p. 823.
- Tanner, Adaline M., Devils Lake, N. D. Invalid lifter and conveyer. No. 1,313,428; Aug. 19; v. 265; p. 348.
- Tanner, Albert E., Stretford, and E. A. Claremont, High Leigh, England. Joint for electric cables. No. 1,309,158; July 8; v. 264; p. 241.
- Tanner, Albert F., Greenfield, Wis., assignor to Ideal Continuous Cyaniding Process Company, Davenport, Iowa. Filter for cyaniding systems. No. 1,317,835; Oct. 7; v. 267; p. 33.
- Tanner Engineering Company. (See Tanner, Harry L., assignor.)
- Tanner, Harry L., Brooklyn, N. Y., assignor to The Sperry Gyroscope Company. Gyroscopic compass. No. 1,309,591; July 8; v. 264; p. 321.
- Tanner, Harry L., assignor to The Tanner Engineering Company, Inc., Brooklyn, N. Y. Type-writer attachment. No. 1,294,351; Feb. 11; v. 259; p. 352.
- Tanner, Harry L., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic pendulum for aeroplanes, torpedoes, and the like. No. 1,312,086; Aug. 5; v. 265; p. 44.
- Tanner, Harry L., assignor to Tanner Engineering Company, Inc., Brooklyn, N. Y. Indicator. No. 1,320,807; Nov. 4; v. 268; p. 84.
- Tanner, Harry L., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Stabilized gyroscopic pendulum. No. 1,324,477; Dec. 9; v. 269; p. 282.
- Tanner, Harry L., assignor to Sperry Gyroscope Company, Brooklyn, N. Y. Damping means for gyroscopic pendulums. No. 1,324,478; Dec. 9; v. 269; p. 282.
- Tanner, Harry L. and H. H. Thompson, assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic compass. No. 1,309,592; July 8; v. 264; p. 321.
- Tanner, Hubert D. (See Knowles and Tanner.)
- Tanner, J. F. (See Lowry, George, assignor.)
- Tanner, Kristian W. (See Gilbertson and Tanner.)
- Tanner, Wallace N., et al. (See Junghanns, Ernest, assignor.)
- Tanquary, Elmer S., Lawrenceville, Ill. Fretting device for musical instruments. No. 1,302,451; Apr. 29; v. 261; p. 931.
- Taplex Corporation. (See Bates, Alexander C., assignor.)
- Taplex Corporation. (See Fritzsche, George H., assignor.)
- Tapley, Eugene T., Sylacauga, Ala. Auto-theft indicator. No. 1,326,803; Dec. 30; v. 269; p. 833.
- Taplin, Thomas J., Jr., London, England. Stabilizer for aeroplanes. No. 1,315,647; Sept. 9; v. 266; p. 223.
- Tapman, Samuel F., Jr., Jamaica, N. Y. Funnel. No. 1,293,575; Feb. 4; v. 259; p. 140.
- Tappan, Harry D. (See Walton and Tappan.)
- Tarasoff, John D., Crescent Valley, British Columbia, Canada. Switch-throwing device. No. 1,320,184; Oct. 28; v. 267; p. 589.
- Tarbox, John P., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Skid structure for hydroaeroplanes. No. 1,296,876; Mar. 11; v. 260; p. 275.
- Tarbox, John P., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Turnbuckle. No. 1,326,008; Dec. 23; v. 269; p. 646.



## Alphabetical list of patentees—Continued.

- Tarbox, Reuben L., Shell Lake, Wis. Fastener for shutters, storm-windows, and screens. No. 1,300,044; Apr. 8; v. 261; p. 351.
- Tarbutton, Charles F., Laurel, Miss. Dry closet. No. 1,324,764; Dec. 9; v. 269; p. 335.
- Tardieu, Oreste. (See Paroli, Angelo, assignor.)
- Tardieu, Charles M. F. A., and G. Periere, Paris, France. Shock-absorbing wheel. No. 1,321,406; Nov. 11; v. 268; p. 262.
- Tarnow, George E., Chicago, Ill. Bow-holder. No. 1,313,137; Aug. 12; v. 265; p. 277.
- Tarrant, Frieda, administratrix. (See Tarrant, William P.)
- Tarrant, Reuben W., London, England. Railway signaling. No. 1,322,651; Nov. 25; v. 268; p. 598.
- Tarrant, Walter G., Byfleet, England. Aeroplane-wing structure. No. 1,313,563; Aug. 19; v. 265; p. 373.
- Tarrant, Walter G., Byfleet, England. Built-up wooden girder. No. 1,317,334; Sept. 30; v. 266; p. 637.
- Tarrant, Walter G., and W. H. Barling, Byfleet, England. Landing-skid for aeroplanes or similar aircraft. No. 1,309,227; July 8; v. 264; p. 253.
- Tarrant, William P., deceased, St. Louis, Mo.; F. Tarrant, administratrix. Towing apparatus. No. 1,297,418; Mar. 18; v. 260; p. 422.
- Tartakovsky, Benzion, Detroit, Mich. Bottle-crate. No. 1,290,681; Jan. 7; v. 258; p. 162.
- Tartara, Giuseppe G. B., Turin, Italy. Photographic and cinematographic apparatus. No. 1,295,081; Feb. 18; v. 259; p. 556.
- Tartrais, Eugene H., Maisons-Laffitte, France. Pump for feeding liquid-fuel engines and like applications. No. 1,315,648; Sept. 9; v. 266; p. 223.
- Tarvin, John T., El Dorado, Ark. Insect-guard for casters. No. 1,306,930; June 17; v. 263; p. 382.
- Tate, Alfred O., New York, N. Y. Separator for storage batteries. No. 1,323,796; Dec. 2; v. 269; p. 107.
- Tate, Clinton J., Benton, Miss. Trivet. No. 1,304,405; May 20; v. 262; p. 426.
- Tate, Edward H., Malden, Mass. Mop. No. 1,294,569; Feb. 18; v. 259; p. 438.
- Tate, Henry C., Memphis, Tenn. Cultivator. No. 1,305,502; June 3; v. 263; p. 51.
- Tate, John C., Oakland, Calif. Portable heater. No. 1,326,222; Dec. 30; v. 269; p. 723.
- Tate Jones & Company. (See Miller, John M., assignor.)
- Tate-Jones & Co. (See Richards and Watkins, assignors.)
- Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Seam for sewed articles. No. 1,293,576; Feb. 4; v. 259; p. 140.
- Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Device for positioning loopers of sewing-machines for threading. No. 1,316,400; Sept. 16; v. 266; p. 377.
- Tate, William H. (See Leadbetter, Gilchrist, and Tate.)
- Tate, William H. (See Scott and Tate.)
- Tatje, Frank H., Metropolitan, N. Y. Washboiler. No. 1,298,264; Mar. 25; v. 260; p. 629.
- Tate, William R., Rippon Lea, and A. V. Park, Malvern, Victoria, Australia. Discharge of liquids from vessels or containers. No. 1,305,754; June 3; v. 263; p. 99.
- Tateoka, Mitsuji, Gardena, Calif. Brooder. No. 1,320,586; Nov. 4; v. 268; p. 43.
- Tatostian, Charles M., Newark, N. J. Propelling mechanism for vehicles. No. 1,290,682; Jan. 7; v. 258; p. 162.
- Tatostian, Charles M., Newark, N. J. Advertising or signaling apparatus. No. 1,301,620; Apr. 22; v. 261; p. 740.
- Tatro, Charles P., and G. Delius, assignors of one-third to B. R. Brierly, Seattle, Wash. Removing tin from iron. No. 1,316,926; Sept. 23; v. 266; p. 524.
- Tatro, Israel J. (See Rheuban, George J., assignor.)
- Tatum, John J., Baltimore, Md. Spring-beam and spring-seat for car-trucks. No. 1,318,240; Oct. 7; v. 267; p. 112.
- Tatum, Lewis L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-driven compressor. No. 1,315,433; Sept. 9; v. 266; p. 185.
- Tauber, Maurice, and J. Schenke, assignors to The Maurice Tauber Company, Chicago, Ill. Furniture. No. 1,297,036; Mar. 11; v. 260; p. 312.
- Tausch, Joseph H., Waukegon, Ill., assignor to P. F. Brown, Lubbock, Tex. Automobile road-light. No. 1,295,385; Feb. 25; v. 259; p. 648.
- Taussig, Leo, New York, N. Y. Vehicle-frame. No. 1,312,648; Aug. 12; v. 265; p. 181.
- Tavastila, Emil. (See Siren and Tavastila.)
- Tavi, Uno A., Milwaukee, Wis. Universal adjustable support. No. 1,300,045; Apr. 8; v. 261; p. 351.
- Tawney, Rufus A., Grand Junction, Colo. Cam-lever coupling. No. 1,310,456; July 22; v. 264; p. 547.
- Taylor, Aiken C., Richmond, assignor to E. P. Summerfield, Norfolk, Va. Lock for pivoted window-sash. No. 1,292,144; Jan. 21; v. 258; p. 567.
- Taylor, Alfred G., Greenville, S. C., assignor to J. R. Aiken. Electric-current collector. No. 1,322,371; Nov. 18; v. 268; p. 494.
- Taylor, Alston D., Omaha, Nebr. Telegraph-repeater. No. 1,291,247; Jan. 14; v. 258; p. 318.
- Taylor, Arthur. (See Waddingham and Taylor.)
- Taylor, Arthur B., Hillside township, Union county, N. J., assignor to Baker and Company, Incorporated. Drilling and lapping machine. No. 1,318,466; Oct. 14; v. 267; p. 215.
- Taylor, Burt E., Mount Vernon, assignor to Borden's Condensed Milk Company, New York, N. Y. Valve. No. 1,293,976; Feb. 11; v. 259; p. 264.
- Taylor, Burt E., Mount Vernon, N. Y., assignor to Borden's Condensed Milk Company, New York, N. Y. Evaporating apparatus. No. 1,308,819; July 8; v. 264; p. 177.
- Taylor, Burt E., Mount Vernon, N. Y., assignor to Borden's Condensed Milk Company, New York, N. Y. Cleansing machine or apparatus. No. 1,309,785; July 15; v. 264; p. 394.
- Taylor, Calvin C., assignor to Scarritt Car Seat and Manufacturing Company, St. Louis, Mo. Car-seat. No. 1,298,823; Apr. 1; v. 261; p. 48.
- Taylor, Cecil A. (See Muir and Taylor.)
- Taylor, Cecil H., Detroit, Mich. Radiator. No. 1,313,652; Aug. 19; v. 265; p. 390.
- Taylor, Charles, Toronto, Ontario, Canada. Dinner-carry-all. No. 1,291,248; Jan. 14; v. 258; p. 319.
- Taylor, Charles, Nogales, Ariz. Device for aeration and emulsifying of pulp for flotation. No. 1,299,059; Apr. 1; v. 261; p. 102.
- Taylor, Charles A., Whitman, Mass. Oscillating nail-making machine. No. 1,303,413; May 13; v. 262; p. 203.
- Taylor, Charles F., New York, N. Y. Tail-light hanger. No. 1,294,968; Feb. 18; v. 259; p. 530.
- Taylor, Charles H., Toronto, Ontario, Canada. Metal-cutter. No. 1,308,126; July 1; v. 264; p. 22.
- Taylor, Charles H., Grass Valley, Calif. Single-drum winch. No. 1,316,927; Sept. 23; v. 266; p. 524.
- Taylor, Charles M., Jr., Maple Shade, N. J. Type-writer ribbon. No. 1,298,824; Apr. 1; v. 261; p. 48.
- Taylor, Charles R., et al. (See Pagendam, John F., assignor.)
- Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Apparatus for finishing car-wheels. No. 1,302,880; May 6; v. 262; p. 77.
- Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Valve mechanism for steam-intensifiers. No. 1,302,881; May 6; v. 262; p. 77.
- Taylor, Clarence R., Fort Worth, Tex. Dehydrating apparatus. No. 1,319,978; Oct. 28; v. 267; p. 551.
- Taylor, Clarence W., assignor to Onlake Company, Chicago, Ill. Brake mechanism for differentials. No. 1,324,855; Dec. 16; v. 269; p. 415.
- Taylor, Clarence W., assignor to Onlake Company, Chicago, Ill. Brake mechanism for differentials. No. 1,324,856; Dec. 16; v. 269; p. 415.
- Taylor, Clarence W., assignor to Onlake Company, Chicago, Ill. Brake device for differentials. No. 1,324,857; Dec. 16; v. 269; p. 415.
- Taylor, Clarence W., assignor to Onlake Company, Chicago, Ill. Brake device for differentials. No. 1,324,858; Dec. 16; v. 269; p. 415.
- Taylor, Clarence W., assignor to Onlake Company, Chicago, Ill. Brake device for differentials. No. 1,324,859; Dec. 16; v. 269; p. 416.
- Taylor, Clarence W., assignor to Onlake Company, Chicago, Ill. Brake mechanism for differentials. No. 1,324,860; Dec. 16; v. 269; p. 416.
- Taylor, Clarence W., assignor to Onlake Company, Chicago, Ill. Brake mechanism for differentials. No. 1,324,861; Dec. 16; v. 269; p. 416.
- Taylor, Donald R. N., Sydney, New South Wales, Australia. Printing apparatus. No. 1,307,325; June 17; v. 263; p. 454.
- Taylor, Earl G., Bellevue, Pa. Air-brake system. No. 1,295,235; Feb. 25; v. 259; p. 615.
- Taylor, Edgar R., and I. Flexner, assignors to Flexner-Taylor Company, Boston, Mass. Structural composition. No. 1,302,452; Apr. 29; v. 261; p. 931.
- Taylor, Edward. (See Sivard, Reuben A., assignor.)
- Taylor, Edward A., Charleston, Mo. Shade-roller and curtain-pole support. No. 1,291,249; Jan. 14; v. 258; p. 319.
- Taylor, Edward C., Highland Park, Mich. Carburetor adjustment-gage. No. 1,293,577; Feb. 4; v. 259; p. 140.
- Taylor, Edwin, Edwardsville, Kans. Cultivating and covering attachment for corn-planters. No. 1,317,402; Sept. 30; v. 266; p. 650.
- Taylor, Edwin N., Cedar Rapids, Iowa. Vehicle signaling device. No. 1,316,121; Sept. 16; v. 266; p. 324.
- Taylor, Eli J., Edmonton, Alberta, Canada. Vehicle-tire. No. 1,310,513; July 22; v. 264; p. 557.
- Taylor, Ewing H., Petersburg, assignor to J. A. Ausbrooks, Fayetteville, Tenn. Well-bucket valve. No. 1,304,218; May 20; v. 262; p. 389.
- Taylor, Fernando E., Osborne, Kans. Positive gear transmission. No. 1,320,658; Nov. 4; v. 268; p. 56.
- Taylor, Frank A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Die-support. No. 1,309,970; July 15; v. 264; p. 429.
- Taylor, Frank F., Belen, N. Mex. Wheel-rim. No. 1,294,969; Feb. 18; v. 259; p. 530.
- Taylor, Frederick, Kakabeka Falls, Ontario, Canada. Electrical water-heater. No. 1,320,941; Nov. 4; v. 268; p. 110.
- Taylor, Frederick C., New York, N. Y., assignor to F. McCann, San Francisco, Calif. Moving-picture projector. No. 1,298,600; Mar. 25; v. 260; p. 700.



- Taylor, George, Roxborough, Pa. Rail-joint. No. 1,308,689; July 1; v. 264; p. 125.
- Taylor, George A., Hyde Park, Mass. Twist-drill. No. 1,309,706; July 15; v. 264; p. 379.
- Taylor, George B., Birmingham, England. Vise. No. 1,326,804; Dec. 30; v. 269; p. 833.
- Taylor, George F., London, England. Construction of multiple-roll calendar or ironing machines. No. 1,323,121; Nov. 25; v. 268; p. 686.
- Taylor, George G., Crafton, and I. E. Knapp, Jr., Coraopolis, Pa. Producing ammonia and ammonium compounds. No. 1,315,534; Sept. 9; v. 266; p. 203.
- Taylor, George R. (See Hurtig and Taylor.)
- Taylor, George R., assignor of one-half to S. E. Huff, Urbana, Ill. Construction of towers. No. 1,299,261; Apr. 1; v. 261; p. 147.
- Taylor, Harold B. (See Applegarth and Taylor.)
- Taylor, Harrell C., Sealevel, N. C. Oyster-dredge. No. 1,323,122; Nov. 25; v. 268; p. 686.
- Taylor, Harry F. (See Meredith, Oscar G., assignor.)
- Taylor, Harry F., et al. (See Meredith, Oscar G., assignor.)
- Taylor, Henry B., Montreal, Quebec, Canada. Fastening device. No. 1,314,548; Sept. 2; v. 266; p. 14.
- Taylor, Henry F., New York, N. Y. Means for determining color combinations. No. 1,308,512; July 1; v. 264; p. 92.
- Taylor, Herbert B., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Contact-shoe for automatic train-control systems. No. 1,308,534; July 1; v. 264; p. 96.
- Taylor, Herbert B., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Contact-shoe for automatic train-control systems. No. 1,308,535; July 1; v. 264; p. 96.
- Taylor, Herbert B., Westfield, N. J., assignor to Hall Switch & Signal Co. Switch and signal indication. No. 1,322,270; Nov. 18; v. 268; p. 474.
- Taylor, Herbert W., Sunnyside, Phoenix, Mauritius. Tube-scraper. No. 1,323,123; Nov. 25; v. 268; p. 686.
- Taylor, Horace V. S., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring instrument. No. 1,300,513; Apr. 15; v. 261; p. 478.
- Taylor, Hugh G., Greeley, Colo. Changeable exhibitor. No. 1,320,510; Nov. 4; v. 268; p. 29.
- Taylor Instrument Companies. (See Karst and Nelson, assignors.)
- Taylor Instrument Companies. (See Norwood and Stalker, assignors.)
- Taylor Instrument Companies. (See Wallis and Schwartz, assignors.)
- Taylor, Isaac F., assignor of one-half to S. Pick, East Dulwich, London, England. Ship's-boat handling and launching apparatus. No. 1,292,145; Jan. 21; v. 258; p. 568.
- Taylor, James A., New York, N. Y. Engine-starting mechanism. No. 1,297,750; Mar. 18; v. 260; p. 494.
- Taylor, James A., New York, N. Y. Combined braking, drive-clutch, and motor-starting mechanism. No. 1,301,018; Apr. 15; v. 261; p. 585.
- Taylor, James A., Waco, Ky. Eyeglass-support. No. 1,310,258; July 15; v. 264; p. 480.
- Taylor, James L., Poughkeepsie, assignor to The James L. Taylor Manufacturing Co., New York, N. Y. Clamp-machine. No. 1,320,808; Nov. 4; v. 268; p. 84.
- Taylor, James L., Poughkeepsie, assignor to James L. Taylor Manufacturing Co., New York, N. Y. Squaring attachment for clamp-machines. No. 1,321,572; Nov. 11; v. 268; p. 293.
- Taylor, James S., Eureka, Kans. Well-tool. No. 1,299,392; Apr. 1; v. 261; p. 176.
- Taylor, James T., Fort Worth, Tex. Hollow building-tile. No. 1,310,220; July 15; v. 264; p. 473.
- Taylor, John, Chicago, Ill. Automatic toilet-lock. No. 1,292,146; Jan. 21; v. 258; p. 568.
- Taylor, John, East Rondon, England. Ship's anchor. No. 1,310,308; July 15; v. 264; p. 489.
- Taylor, John B., Schenectady, N. Y., assignor to General Electric Company. Differentially-connected exploring-coils. No. 1,297,929; Mar. 18; v. 260; p. 532.
- Taylor, John C., Findlay, Ohio. Car-coupling. No. 1,318,241; Oct. 7; v. 267; p. 112.
- Taylor, John D. (See Dillard and Taylor.)
- Taylor, John K., Windsor, Ontario, Canada. Tool. No. 1,313,758; Aug. 19; v. 265; p. 410.
- Taylor, John R. (See McCluer, Anna T., assignor.)
- Taylor, John W., Philadelphia, Pa. Sanitary shield. No. 1,307,162; June 17; v. 263; p. 424.
- Taylor, John W., Philadelphia, Pa. Autoselective fuse. No. 1,313,930; Aug. 26; v. 265; p. 476.
- Taylor, John W., Philadelphia, Pa. Safety detonating-fuse. No. 1,321,407; Nov. 11; v. 268; p. 262.
- Taylor, L. D. (See Bates, Russell A., assignor.)
- Taylor, Lawrence H., Red Cloud, Nebr. Tie-holding attachment for collars. No. 1,302,242; Apr. 29; v. 261; p. 890.
- Taylor, Lyndon B., Newport, R. I., assignor to the Government of the United States. Gyroscope. No. 1,296,137; Mar. 4; v. 260; p. 74.
- Taylor, Lyndon B., Newport, R. I., assignor to the Government of the United States. Centrifugal governor. No. 1,296,138; Mar. 4; v. 260; p. 74.
- Taylor, Marshall H. (See Land, William A., assignor.)
- Taylor, Oliver M., Coon Rapids, Iowa. Shade-roller bracket. No. 1,319,435; Oct. 21; v. 267; p. 425.
- Taylor, Philip S. (See Gilbert, Taylor, Dean, and Elder.)
- Taylor, Preston G., assignor of one-half to T. L. Bush, Mumfords, Tex. Tire-tool. No. 1,323,927; Dec. 2; v. 269; p. 132.
- Taylor, Robert A., Cincinnati, Ohio. Carton and blank therefor. No. 1,312,710; Aug. 12; v. 265; p. 193.
- Taylor, Robert W., Kalamazoo, Mich. Direction-indicator for motor-vehicles. No. 1,317,240; Sept. 30; v. 266; p. 619.
- Taylor, Russell E., New York, N. Y. Electric motor. No. 1,309,159; July 8; v. 264; p. 241.
- Taylor, Russell F., Scotts, Mich. Internal-combustion engine. No. 1,305,416; June 3; v. 263; p. 35.
- Taylor, Silas P., Loretto, Tenn. Cultivator. No. 1,317,764; Oct. 7; v. 267; p. 20.
- Taylor, Thomas, Jr., Chicago, Ill. Baseball-bat. No. 1,325,813; Dec. 23; v. 269; p. 610.
- Taylor, Thomas E., assignor of one-half to L. U. Cunningham, Kansas City, Mo. Air-cleaning attachment for air-compressors. No. 1,314,443; Aug. 26; v. 265; p. 575.
- Taylor, Van B., Kingman, Ind. Crossing-gate. No. 1,306,033; June 10; v. 263; p. 181.
- Taylor, Virgil M., Bemidji, Minn. Shoe-fastening device. No. 1,307,279; June 17; v. 263; p. 445.
- Taylor, W. C. (See Gage and Taylor.)
- Taylor, Wallace, J. Miles, and H. Burden, Newark, N. J. Signaling means. No. 1,307,710; June 24; v. 263; p. 557.
- Taylor, Walter, Nashville, Tenn. Operating mechanism for swing-saws. No. 1,315,434; Sept. 9; v. 266; p. 185.
- Taylor, Walter E., Avalon, Pa. Metallic joint. No. 1,303,740; May 13; v. 262; p. 263.
- Taylor Wharton Iron and Steel Company. (See Andrews, Charles B., assignor.)
- Taylor Wharton Iron and Steel Company. (See Reigart, Chauncy, assignor.)
- Taylor, William, Lowell, Ind. Nut-lock. No. 1,313,759; Aug. 19; v. 265; p. 410.
- Taylor, William, Leicester, England. Dividing-head. No. 1,323,658; Dec. 2; v. 269; p. 81.
- Taylor, William C. (See Sullivan and Taylor.)
- Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Glass and batch therefor. No. 1,292,147; Jan. 21; v. 258; p. 568.
- Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Glass and batch therefor. No. 1,292,148; Jan. 21; v. 258; p. 568.
- Taylor, William E., assignor to American Can Company, New York, N. Y. Soldering process. No. 1,293,977; Feb. 11; v. 259; p. 264.
- Taylor, William F., Minneapolis, Minn. Vending-machine. No. 1,306,201; June 10; v. 263; p. 213.
- Taylor, William H., Providence, R. I. Pivot-mounting for pins of brooches and the like. No. 1,304,406; May 20; v. 262; p. 426.
- Taylor, William O., Montreal, Quebec, Canada. Motor-support for sewing-machines. No. 1,308,456; July 1; v. 264; p. 81.
- Taylor, William O., Limerick, assignor to Wildman Mfg. Co., Norristown, Pa. Stop-motion for knitting-machines. No. 1,316,928; Sept. 23; v. 266; p. 524.
- Taylor, William O., Limerick, assignor to Wildman Mfg. Co., Norristown, Pa. Stop-motion for knitting-machines. No. 1,316,929; Sept. 23; v. 266; p. 524.
- Taylor, William O., Limerick, assignor to Wildman Mfg. Co., Norristown, Pa. Let-off and brake-controlling mechanism for knitting-machines. No. 1,316,930; Sept. 23; v. 266; p. 524.
- Taylor, William W., Kansas City, Mo. Safety appliance. No. 1,302,101; Apr. 29; v. 261; p. 863.
- Taylor, Wilton A., assignor to Edward Miller & Company, Meriden, Conn. Electric-lamp standard. No. 1,309,375; July 8; v. 264; p. 280.
- Taylor, Wyatt W. (See Sellers and Taylor.)
- Teachworth, William H., Dallas, Tex. Junction-bracket. No. 1,316,001; Sept. 16; v. 266; p. 303.
- Teague, George J., Los Angeles, Cal. Means for producing animated cartoons. No. 1,292,149; Jan. 21; v. 258; p. 568.
- Teague, Isaac E., Whitewright, Tex. Nut-lock. No. 1,291,250; Jan. 14; v. 258; p. 319.
- Teague, Raleigh E., Hanford, Calif. Fruit-gatherer. No. 1,302,243; Apr. 29; v. 261; p. 890.
- Teague, Walter O., Brookline, assignor, by mesne assignments, to Fire Protection Insurance Securities Company, Boston, Mass. Fusible link. No. 1,300,046; Apr. 8; v. 261; p. 351.
- Teal, Frank, Troy, N. Y. Flying-machine level. No. 1,299,633; Apr. 8; v. 261; p. 260.
- Teale, Benjamin E., Richmond, Va., assignor to British American Tobacco Company, Ltd., New York, N. Y. Tobacco-cleaner. No. 1,326,547; Dec. 30; v. 269; p. 784.
- Teale, Leon, New York, N. Y. Fuse. No. 1,321,049; Nov. 18; v. 268; p. 415.
- Teall, Oliver E., South Hadley, Mass., assignor of one-third to The Tissue Company, Saugerties, N. Y., and one-third to J. W. King, Springfield, Mass. Apparatus for folding and interleaving paper sheets. No. 1,290,800; Jan. 7; v. 258; p. 189.



## Alphabetical list of patentees—Continued.

- Teall, Oliver E., assignor of one-half to The Tissue Company, Saugerties, N. Y. Folding and interleaving machine. No. 1,290,801; Jan. 7; v. 258; p. 189.
- Teasdale, George W., St. Louis, Mo. Disappearing bed. No. 1,293,978; Feb. 11; v. 259; p. 264.
- Teasdale, George W., St. Louis, Mo. Disappearing bed. No. 1,313,760; Aug. 19; v. 265; p. 410.
- Tebbetts, Lewis B., 2d. St. Louis, Mo. Making metal ingots. No. 1,298,825; Apr. 1; v. 261; p. 49.
- Techel, Hans. (See Regenbogen and Techel.)
- Technical Supply Company. (See Fuller, Ernest L., assignor.)
- Technical Supply Company. (See Hagerstrom, John A., assignor.)
- Technicolor Motion Picture Corporation. (See Wescott, William B., assignor.)
- Techno-Chemical Laboratories. (See Roberg, Teofron, assignor.)
- Techno-Chemical Laboratories. (See Testrup, Nils, assignor.)
- Tedesco, Arrigo, *et al.*, executors. (See Salvati, Michele N.)
- Tedesco, Arrigo, Turin, Italy. Manufacturing aluminium alloys. No. 1,318,702; Oct. 14; v. 267; p. 260.
- Teede, Samuel, Enderby, British Columbia, Canada. Horse-hitching device. No. 1,321,681; Nov. 11; v. 268; p. 313.
- Teed, Earl S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pipe-coupling. No. 1,291,251; Jan. 14; v. 258; p. 319.
- Teegarden, Wallace, *et al.* (See Kimmel, Ozro F., assignor.)
- Teel, Steward A., Bangor, Pa. Door opening and closing mechanism. No. 1,315,053; Sept. 2; v. 266; p. 106.
- Teeling, George A., assignor to Carling Turbine Blower Co., Worcester, Mass. Steam-strainer. No. 1,297,978; Mar. 18; v. 260; p. 543.
- Teepell, Edward A., Germantown, Pa. Cleaning device. No. 1,303,414; May 13; v. 262; p. 204.
- Teepie, Lawrence R., Fort Wayne, Ind. Thermostatic control device. No. 1,304,822; May 27; v. 262; p. 543.
- Teipie, Oliver J., Jr., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing propellant powder. No. 1,310,848; July 22; v. 264; p. 620.
- Teeples, Clarence. (See Wright, Teeples, and Lamb.)
- Teesdale, Clyde H., Madison, Wis. Treating wood. No. 1,295,828; Feb. 25; v. 259; p. 752.
- Teeters, Bert C., Ballclub, Minn. Life-preserving suit. No. 1,308,561; July 1; v. 264; p. 101.
- Tefft, Benjamin F., Jr. (See Fuller, Eugene, assignor.)
- Tefft, Floyd G., assignor, by mesne assignments, to Troy Foundry and Machine Co., Inc., Troy, N. Y. Pump. No. 1,320,942; Nov. 4; v. 268; p. 110.
- Tegeler, Alois, Nashua, Iowa. Adjustable wagon-tongue bounds. No. 1,313,967; August 26; v. 265; p. 484.
- Teiber, Edward, St. Louis, Mo. Demountable-rim lock. No. 1,300,514; Apr. 15; v. 261; p. 479.
- Teich, Ernest L., assignor to The American Hardware Corporation, New Britain, Conn. Casement-window holder. No. 1,311,426; July 29; v. 264; p. 760.
- Teichman, Frank, Wollaston, Mass. Balanced valve. No. 1,305,026; May 27; v. 262; p. 581.
- Teipel, Joseph. (See Mancha and Teipel.)
- Teisseire, Adrian, Belmont, Calif. Combination-valve. No. 1,315,054; Sept. 2; v. 266; p. 107.
- Teixeira, Antonio M., Ipanema, São Paulo, Brazil. Electrical furnace. No. 1,313,761; Aug. 19; v. 265; p. 410.
- Tejima, Jukichi, Ube, and K. Kishida, Toyohigashi, Yamaguchi, Japan. Apparatus for excluding dense fog. No. 1,312,286; Aug. 5; v. 265; p. 80.
- Telaugraph Corporation. (See Tiffany, George S., assignor.)
- Telelectric Company, The. (See Reed, Walter C., assignor.)
- Telepost Company. (See Delany, Patrick B., assignor.)
- Telin, Peter W., New York Mills, Minn. Ventilator. No. 1,296,019; Mar. 4; v. 260; p. 46.
- Tell, Raymond A., Bangor, Pa. Bag-securing device. No. 1,318,933; Oct. 14; v. 267; p. 304.
- Teller, Spencer J., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Power-transmission mechanism. No. 1,323,334; Dec. 2; v. 269; p. 21.
- Tellin, Frank D., Kalona, Iowa. Cultivating implement. No. 1,309,228; July 8; v. 264; p. 253.
- Telling, Charles B., Cleveland, Ohio. Holder for ice-cream molds. No. 1,303,990; May 20; v. 262; p. 348.
- Temco Electric Motor Company, The. (See Pfister, Winfred F., assignor.)
- Temple, Russell R., Santa Paula, assignor of one-half to R. C. Hansen, Los Angeles, Calif. Pumping apparatus. No. 1,297,930; Mar. 18; v. 260; p. 532.
- Temple, Thomas, Fort Plain, N. Y. Carding-machine feeder. No. 1,297,607; Mar. 18; v. 260; p. 462.
- Templeton, Ruren E., and G. T. England, Westington Springs, S. D. Rotary plane. No. 1,311,471; July 29; v. 264; p. 769.
- Templeton, Edwin G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizer for cord tires. No. 1,317,669; Sept. 30; v. 266; p. 702.
- Templeton, Kenly & Company. (See Malicki, Joseph, assignor.)
- Templeton, Walter B., Chicago, Ill. Record card or sheet. No. 1,305,318; June 3; v. 263; p. 17.
- Templeton, Walter B., Chicago, Ill. Lifting appliance. No. 1,321,950; Nov. 18; v. 268; p. 415.
- Templeton, Walter B., Chicago, Ill. Geared lifting-jack. No. 1,325,962; Dec. 23; v. 269; p. 637.
- Templeton, Walter B., Chicago, Ill. Pole-jack. No. 1,325,963; Dec. 23; v. 269; p. 637.
- Templeton, Walter B., Chicago, Ill. Lifting appliance. No. 1,325,964; Dec. 23; v. 269; p. 638.
- Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,293,979; Feb. 11; v. 259; p. 264.
- Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,294,194; Feb. 11; v. 259; p. 315.
- Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,294,195; Feb. 11; v. 259; p. 316.
- Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,317,765; Oct. 7; v. 267; p. 20.
- Templeton, William M., Peoria, Ill. Lubricating mechanism. No. 1,299,060; Apr. 1; v. 261; p. 102.
- Templin, John R. (See Birks and Templin.)
- Ten Bosch, Abraham, N. J. Zoon, The Hague, Netherlands. Method and means for removing water from peat. No. 1,290,494; Jan. 7; v. 258; p. 116.
- Ten Broeck, William G., and W. Preston, Chester, Nehr. Tractor-ditch. No. 1,318,819; Oct. 14; v. 267; p. 282.
- Ten Winkel, Herman, Denver, Colo. Oil purifier and separator. No. 1,290,820; Jan. 7; v. 258; p. 194.
- Tennant, Herbert B., *et al.* (See Crowley, Richard J., assignor.)
- Tennant, James, assignor of one-third to C. M. Overley, Seattle, Wash. Copy-holder. No. 1,302,993; May 6; v. 262; p. 98.
- Tennant, Thomas R., *et al.* (See Crowley, Richard J., assignor.)
- Tenney, H. O. (See Thomas, Edwin E., assignor.)
- Tennison, Alfred F., Cincinnati, Ohio. Cap. No. 1,293,980; Feb. 11; v. 259; p. 265.
- Tennison, James D., Texarkana, Ark. Ridge-roll starter. No. 1,290,802; Jan. 7; v. 258; p. 190.
- Tenny, Clarence J. (See Tenny, William N. and C. J.)
- Tenny, William N. and C. J., Sherman, Calif. Combination latch hasp and staple. No. 1,312,931; Aug. 12; v. 265; p. 236.
- Tentobed Company. (See Purcell, Isaac S., assignor.)
- Terhune, Howard. (See Aldridge and Terhune.)
- Terhune, Leonard B., Newark, assignor to The Arlington Company, Arlington, N. J. Table for brush-filling machines. No. 1,310,457; July 22; v. 264; p. 547.
- Terminal Taxicab Company. (See Dunlop and Boobar, assignors.)
- Terquist, John, and E. Tragardh, Minneapolis, Minn. Safety watch-pocket. No. 1,308,378; July 1; v. 264; p. 68.
- Terstedt Manufacturing Company. (See Allmand and Lawrence, assignors.)
- Terstedt Manufacturing Company. (See Gates and Allmand, assignors.)
- Terstedt Manufacturing Company. (See Lawrence and Fleischauer, assignors.)
- Terp, Clara A., Minneapolis, Minn. Picture-hanger. No. 1,310,096; July 15; v. 264; p. 450.
- Terpening, F. G. (See Rolston, John, assignor.)
- Terpening, Garret, Jersey City, N. J. Figure toy. No. 1,291,262; Jan. 14; v. 258; p. 319.
- Terracciano, Carmine, New York, N. Y. Lock and bolt. No. 1,309,918; July 15; v. 264; p. 419.
- Terrel Machine Company, The. (See Redmond, Harriman, and Richardson, assignors.)
- Terrell, Albert C., Grand Rapids, Mich. Metal shelving. No. 1,302,882; May 6; v. 262; p. 77.
- Terry, Aaron, Springfield, Mass. Means and system of heating. No. 1,305,755; June 3; v. 263; p. 99.
- Terry, Aaron, Springfield, Mass. Electric heater. No. 1,319,733; Oct. 28; v. 267; p. 505.
- Terry, Aaron, Springfield, Mass. Air-pump. No. 1,326,620; Dec. 30; v. 269; p. 798.
- Terry, Harry S., Courtland, Kans. Hand bundle-tying machine. No. 1,316,002; Sept. 16; v. 266; p. 303.
- Terry, Joseph T., Jr., Mascot, Tenn. Apparatus for the concentration of ore. No. 1,317,463; Sept. 30; v. 266; p. 662.
- Terry, William N., Pierre, S. D. Harvester-reel. No. 1,290,407; Jan. 7; v. 258; p. 94.
- Tervo, Oscar, West Quincy, Mass. Cranberry-picking machine. No. 1,323,928; Dec. 2; v. 269; p. 133.
- Terwiel, Gerard J., The Hague, Netherlands. Camera. No. 1,326,470; Dec. 30; v. 269; p. 769.
- Terwilliger, Lee. (See De Young and Terwilliger.)
- Terwilliger, Thomas M., Jr., Walden, N. Y. Combined box fastener and opener. No. 1,323,335; Dec. 2; v. 269; p. 21.
- Tesch, Alexander O., Milwaukee, Wis. Oil-burner. No. 1,290,683; Jan. 7; v. 258; p. 162.
- Teseiro, Francisco, Unión de Reyes, Cuba. Tractor. No. 1,311,726; July 29; v. 264; p. 816.
- Tesher, Ruben, Brooklyn, N. Y. Russian tea-urn heater. No. 1,317,403; Sept. 30; v. 266; p. 650.
- Teske, Edward R., Oakfield, Wis. Cattle-stanchion. No. 1,320,943; Nov. 4; v. 268; p. 110.



- Tesla, Nikola, New York, N. Y., assignor to Waltham Watch Company, Waltham, Mass. Ship's log. No. 1,314,718; Sept. 2; v. 266; p. 46.
- Tessmer, Frederick P., Detroit, Mich. Power-riddle. No. 1,299,262; Apr. 1; v. 261; p. 147.
- Test, Ellis W. (See Keithley and Test.)
- Test, Ellis W., Michigan City, Ind. Car end. No. 1,319,436; Oct. 21; v. 267; p. 425.
- Test, Ellis W., Michigan City, Ind. Car-roof and running-board support. No. 1,324,217; Dec. 9; v. 269; p. 232.
- Tester, Louis E., Sacramento, Calif. Hydrocarbon-burner. No. 1,299,263; Apr. 1; v. 261; p. 147.
- Testrup, Nils, Westminster, London, England, and T. Rigby, Dumfries, Scotland. By-product recovery from gas-producers and the like. No. 1,316,339; Sept. 16; v. 266; p. 366.
- Testrup, Nils, assignor to Techno-Chemical Laboratories, Limited, London, England. Apparatus for conducting high-temperature reactions. No. 1,322,652; Nov. 25; v. 268; p. 598.
- Teters, William V., San Jose, Calif. Safety device for railway-cars. No. 1,300,673; Apr. 15; v. 261; p. 511.
- Tetzel, Edmund, Jr. (See Torner and Tetzel.)
- Tew, George M., Kirkland, Wash. Device for blowing out oil-pipes. No. 1,290,408; Jan. 7; v. 258; p. 95.
- Tew, George M., Kirkland, Wash. Running-gear for automobiles. No. 1,296,877; Mar. 11; v. 260; p. 275.
- Tewksbury, Charles B., West Roxbury, assignor to Safeguard Tag Company, Boston, Mass. Self-reinforcing fabric. No. 1,300,515; Apr. 15; v. 261; p. 479.
- Tewsley, James, Long Beach, and R. D. Horton, Los Angeles, Calif. Hydrocarbon-burner. No. 1,324,755; Dec. 9; v. 269; p. 335.
- Tex, Henry L. (See Shuler and Tex.)
- Texas Company, The. (See Adams, Joseph H., assignor.)
- Texas Company, The. (See Scott, Clarence N., assignor.) (Reissue.)
- Textet Corporation, The. (See Hartshorne, William D., assignor.)
- Textile Machine Works. (See Eberly, Theodore L., assignor.)
- Textile Machine Works. (See Janssen, Henry, assignor.)
- Textilite Engineering Company. (See Milde, George S., assignor.)
- Thacher, George H., Jr., Albany, N. Y., assignor to Files Engineering Company, Inc. Hand-stoker. No. 1,302,453; Apr. 29; v. 261; p. 931.
- Thacher, Sheldon P., Weehawken, N. J., assignor to New York Belting & Packing Company, Tank. No. 1,297,305; Mar. 11; v. 260; p. 370.
- Thacher, Sheldon P., Weehawken, N. J., assignor to New York Belting and Packing Company. Material for containers or other like articles. No. 1,309,971; July 15; v. 264; p. 429.
- Thacher, Sheldon P., Weehawken, N. J., assignor to Revere Rubber Company. Vulcanizing rubber and product obtained thereby. No. 1,312,144; Aug. 5; v. 265; p. 55.
- Thackeray, William, Jr. (See Stevens and Thackeray.)
- Thackray, George E., Westmont borough, Pa. Hoop. No. 1,297,419; Mar. 18; v. 260; p. 422.
- Thackray, George E., Westmont borough, Pa. Car-door connection. No. 1,322,653; Nov. 25; v. 268; p. 599.
- Thackray, Herbert G. (See Knight and Thackray.)
- Thackston, Ralph F., Anderson, S. C. Bobbin-supporter for looms. No. 1,297,420; Mar. 18; v. 260; p. 423.
- Thake, John A., Brooklyn, N. Y. Renewable-link electric fuse. No. 1,319,538; Oct. 21; v. 267; p. 445.
- Thal, Otto S., San Francisco, Calif. Combination guide and director. No. 1,326,116; Dec. 23; v. 269; p. 666.
- Thalinger, Ernest O., St. Louis, Mo. Game. No. 1,299,520; Apr. 8; v. 261; p. 233.
- Tharp, Charles H., assignor to Sears, Roebuck and Co., Chicago, Ill. Garment-holding form. No. 1,317,241; Sept. 30; v. 266; p. 619.
- Tharp, Harvey E., assignor of one-half to J. O. Buzzard, Smith Center, Kans. Automatic signal. No. 1,298,420; Mar. 25; v. 260; p. 661.
- Thatcher, Charles F., Providence, R. I. Fastener for bottle-stoppers. No. 1,292,919; Jan. 28; v. 258; p. 772.
- Thatcher, Charles F., Providence, R. I. Jar-top fastening. No. 1,292,920; Jan. 28; v. 258; p. 772.
- Thatcher, Charles J., New York, N. Y. Diaphragm or separator. No. 1,291,253; Jan. 14; v. 258; p. 320.
- Thaw, Alexander B., New York, N. Y. Actuator for aeroplane-stabilizers. No. 1,291,254; Jan. 14; v. 258; p. 320.
- Thayer, Garland T., and B. V. Gilmore, Charleston, W. Va. Liquid-server. No. 1,293,244; Feb. 4; v. 259; p. 62.
- Thayer, Henry W., New York, N. Y. Explosion-engine. No. 1,299,264; Apr. 1; v. 261; p. 147.
- Thayer, Russell, Philadelphia, Pa. Recovering gold. No. 1,323,124; Nov. 25; v. 268; p. 687.
- Theberath, Joseph C., Lakewood, assignor to The Standard Parts Company, Cleveland, Ohio. Apparatus for bending tubes and the like. No. 1,324,940; Dec. 16; v. 269; p. 430.
- Thelm, Joseph, and G. F. Hehman, Newport, Ky. Combined car and pipe coupling. No. 1,296,230; Mar. 4; v. 260; p. 95.
- Thels, Tillie. (See Jones, Jacob, assignor.)
- Theis, George J., Aurora, Ill. Ear-protector. No. 1,312,493; Aug. 5; v. 265; p. 120.
- Thelin, Oscar A., Horten, Norway, assignor to Electric Boat Company. Torpedo-launching apparatus. No. 1,315,535; Sept. 9; v. 266; p. 203.
- Theo. Tiedemann & Sons. (See Hoffman, John H., assignor.)
- Theobald, John L., New York, N. Y., assignor to Toledo Scale Company, Toledo, Ohio. Automatic weighing-scale. No. 1,313,614; Aug. 19; v. 265; p. 385.
- Theodore, Anostopoulou D., (whose full legal name is Theodore D. Anagnostopoulos), Eunice, La. Garter. No. 1,302,454; Apr. 29; v. 261; p. 932.
- Theodore, Millard E., New York, N. Y. Torpedo guard or shield. No. 1,303,522; May 13; v. 262; p. 224.
- Therault, Nazaire, Rumford, Me. Curtain and window-shade bracket. No. 1,316,750; Sept. 23; v. 266; p. 493.
- Therien, Joseph H., assignor of one-half to L. Carrie, San Francisco, Calif. Automatic friction-clutch. No. 1,311,299; July 29; v. 264; p. 736.
- Thermal Appliance Company. (See Hensen, Charles C., assignor.)
- Thermalloy Limited. (See Vautin, Claude T. J., assignor.)
- Thermo Electric Regulator Co. (See Hynes, Lee P., assignor.)
- Thermokept Products Corporation. (See McColl and Willison, assignors.)
- Theumer, Rudolf. (See Schar and Theumer.)
- Theuton, Henry A., assignor of one-half to E. H. Day, Minneapolis, Minn. Radiator foot-rest. No. 1,310,552; July 22; v. 264; p. 565.
- Thiebaut, Francis I., San Francisco, Calif. Electric fuse. No. 1,297,931; Mar. 18; v. 260; p. 532.
- Thiel, Martin A., Mount Vernon, Ohio. Mixing-valve for gas-engines. No. 1,317,948; Oct. 7; v. 267; p. 54.
- Thiel, Oscar C. (See Manthey and Thiel.)
- Thiele, Adolph. (See Dixon and Thiele.)
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,292,537; Jan. 28; v. 258; p. 681.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Type-guard. No. 1,292,971; Jan. 28; v. 258; p. 784.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Paper-feed control for calculating-machines. No. 1,293,245; Feb. 4; v. 259; p. 62.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,293,981; Feb. 11; v. 259; p. 265.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Printing mechanism. No. 1,294,196; Feb. 11; v. 259; p. 316.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Locking attachment for calculating-machines. No. 1,294,725; Feb. 18; v. 259; p. 473.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Carriage-return mechanism. No. 1,294,726; Feb. 18; v. 259; p. 474.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Tabulating mechanism. No. 1,294,847; Feb. 18; v. 259; p. 503.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Type-writing machine. No. 1,301,335; Apr. 22; v. 261; p. 687.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,317,604; Sept. 30; v. 266; p. 689.
- Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,321,260; Nov. 11; v. 268; p. 234.
- Thiery, William H., assignor to The Winton Company, Cleveland, Ohio. Vehicle-spring lubricator. No. 1,307,464; June 24; v. 263; p. 513.
- Thiery, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,324,479; Dec. 9; v. 269; p. 283.
- Thiery, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,324,480; Dec. 9; v. 269; p. 283.
- Thierfelder, Richard, assignor to Phoenix Knitting Works, Milwaukee, Wis. Stocking. No. 1,311,255; July 29; v. 264; p. 728.
- Thierfelder, Richard E., and J. Schmaelzle, Jr., Milwaukee, Wis. Preservative composition for treating rubber fabric. No. 1,312,007; Aug. 5; v. 265; p. 29.
- Thieringer, Emma P., New York, N. Y. Urinal for females. No. 1,296,713; Mar. 11; v. 260; p. 238.
- Thies, Joseph, Great Bend, Kans. Header-barge. No. 1,293,982; Feb. 11; v. 259; p. 265.
- Thies, Tillie, et al. (See Jones, Jacob, assignor.)
- Thill, Frank W., assignor to L. C. Bristow, Caldwell, N. J. Automatic train-stop. No. 1,291,255; Jan. 14; v. 258; p. 320.
- Thimman, Matthew, Murdock, Nebr. Railway spike-retainer. No. 1,299,061; Apr. 1; v. 261; p. 102.
- Thissell, Jesse K., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe and making shoes. No. 1,302,994; May 6; v. 262; p. 98.



*Alphabetical list of patentees—Continued.*

- Thoens, Burchard, New York, N. Y. Equalizing-valve. No. 1,290,803; Jan. 7; v. 258; p. 190.
- Thoens, Burchard, New York, N. Y. Balanced valve. No. 1,320,944; Nov. 4; v. 268; p. 110.
- Thofehrn, Herman G. C., New York, N. Y., assignor to Light Metals Co., Elizabeth, N. J. Alloy. No. 1,310,309; July 15; v. 264; p. 489.
- Thofehrn, Herman G. C., New York, N. Y., assignor to Light Metals Co., Elizabeth, N. J. Making alloys. No. 1,310,310; July 15; v. 264; p. 489.
- Thokle, Olaus, Mandal, Norway. Telephone-mouthpiece. No. 1,294,197; Feb. 11; v. 259; p. 316.
- Thoma, Andrew, Cambridge, Mass., assignor to North American Chemical Company, New York, N. Y. Machine for filling shoe-bottoms. No. 1,306,727; June 17; v. 263; p. 345.
- Thoma, Andrew, Cambridge, assignor to North American Chemical Company, Boston, Mass. Shoe-bottom-filling machine. No. 1,310,588; July 22; v. 264; p. 571.
- Thoma, Corallie D., New York, N. Y. Convertible skirt and breeches. No. 1,297,932; Mar. 18; v. 260; p. 532.
- Thomas A. Edison, Incorporated. (See Schiff, Charles, assignor.)
- Thomas, Alfred. (See Holdsworth, Marmaduke, assignor.)
- Thomas, Alfred J., Boston, Mass. Inseam-trimming machine. No. 1,296,570; Mar. 4; v. 260; p. 169.
- Thomas, Almer B., Hardwick, Vt. Holder for safety-razor blades. No. 1,292,150; Jan. 21; v. 258; p. 568.
- Thomas, Alva C., Royal Oak, Mich. Curtain-fixture. No. 1,324,571; Dec. 9; v. 269; p. 300.
- Thomas, Arthur S., Minneapolis, Minn. Storm-window support. No. 1,317,242; Sept. 30; v. 266; p. 620.
- Thomas, Arvine N., Canton, Ohio. Account-register. No. 1,325,965; Dec. 23; v. 269; p. 638.
- Thomas, Avila O., Detroit, Mich. Wall-bond. No. 1,302,727; May 6; v. 262; p. 47.
- Thomas, Avila O., Detroit, Mich. Building-tile. No. 1,302,728; May 6; v. 262; p. 47.
- Thomas, Bertha E., Erie, Pa. Flexible coupling. No. 1,323,423; Dec. 2; v. 269; p. 38.
- Thomas, Bertha E., Erie, Pa. Flexible coupling. No. 1,325,545; Dec. 23; v. 269; p. 560.
- Thomas, Bruno, Seattle, Wash. Apparatus for electrical fixation of gases. No. 1,304,823; May 27; v. 262; p. 544.
- Thomas, Carl C., Madison, Wis. Meter. No. 1,304,920; May 27; v. 262; p. 561.
- Thomas, Carlyle W., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Stitch-forming mechanism for sewing-machines. No. 1,304,627; May 27; v. 262; p. 507.
- Thomas, Carlyle W., and F. E. Bradley, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Stitching and ruffling machine. No. 1,320,185; Oct. 28; v. 267; p. 589.
- Thomas, Charles, Victoria, British Columbia, Canada. Internal-combustion engine. No. 1,313,762; Aug. 19; v. 265; p. 411.
- Thomae, Charles, assignor to The Thomae Company, Attleboro, Mass. Cigarette-case. No. 1,325,594; Dec. 23; v. 269; p. 569.
- Thomas, Charles E., Wilmington, Del. Combination shovel and ash-sifter. No. 1,306,931; June 17; v. 263; p. 382.
- Thomas, Charles W., Madison, Wis. Adjusting mechanism. No. 1,300,047; Apr. 8; v. 261; p. 351.
- Thomae Company, The. (See Thomae, Charles, assignor.)
- Thomas, Cyril, Danville, Ill. Auxiliary tire-carrier. No. 1,319,125; Oct. 21; v. 267; p. 365.
- Thomas, Edmund P., Centralia, Wash. Shock-absorber. No. 1,313,763; Aug. 19; v. 265; p. 411.
- Thomas, Edward, New York, N. Y. Stencil-paper and compound and making them. No. 1,293,983; Feb. 11; v. 259; p. 266.
- Thomas, Edward, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,292,151; Jan. 21; v. 258; p. 569.
- Thomas, Edward, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Type-writing machine. No. 1,292,152; Jan. 21; v. 258; p. 569.
- Thomas, Edward, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,294,727; Feb. 18; v. 259; p. 474.
- Thomas, Edward, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,297,037; Mar. 11; v. 260; p. 312.
- Thomas, Edward, assignor to Underwood Typewriter Company, New York, N. Y. Stencil-sheet. No. 1,304,120; May 20; v. 262; p. 371.
- Thomas, Edward, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,314,616; Sept. 2; v. 266; p. 27.
- Thomas, Edward, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,326,306; Dec. 30; v. 269; p. 736.
- Thomas, Edward, New York, N. Y., and B. C. Stickney, Elizabeth, N. J., assignors, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,292,538; Jan. 28; v. 258; p. 681.
- Thomas, Edward, New York, N. Y., and B. C. Stickney, Elizabeth, N. J., assignors, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Type-writing machine. No. 1,312,145; Aug. 5; v. 265; p. 55.
- Thomas, Edward G., Toledo, Ohio. Child's play-table. No. 1,309,343; July 8; v. 264; p. 274.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Indicating mechanism for scales. No. 1,318,511; Oct. 14; v. 267; p. 224.
- Thomas, Edwin E., assignor to H. O. Tenney, Portland, Oreg. Fly-swatter. No. 1,317,999; Oct. 7; v. 267; p. 64.
- Thomas, Edwin E., assignor to H. O. Tenney, Portland, Oreg. Ink-holder for pens. No. 1,318,000; Oct. 7; v. 267; p. 65.
- Thomas, Edwin E., assignor to H. O. Tenney, Portland, Oreg. Nut-lock. No. 1,322,972; Nov. 25; v. 268; p. 658.
- Thomas, Edwin L., Buffalo, N. Y. Gas-engine. No. 1,325,765; Dec. 23; v. 269; p. 600.
- Thomas, Elbert F. (See Thomas, Samuel S. and E. F.)
- Thomas, Felix, New York, N. Y. Carbureter. No. 1,322,654; Nov. 25; v. 268; p. 599.
- Thomas Foreign Patents Limited. (See Thomas, John G. P., assignor.)
- Thomas, Fred E. (See Schmid and Thomas.)
- Thomas, George E., Bogalusa, La. Axle. No. 1,292,663; Jan. 28; v. 258; p. 712.
- Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Radiator. No. 1,298,123; Mar. 25; v. 260; p. 598.
- Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Pivoted support for motor-vehicles. No. 1,321,491; Nov. 11; v. 268; p. 278.
- Thomas, George J., assignor to Duplex Truck Company, Lansing, Mich. Variable-speed gearing. No. 1,323,501; Dec. 2; v. 269; p. 52.
- Thomas, George M., Cleveland, Ohio. Instrument-holder. No. 1,321,951; Nov. 18; v. 268; p. 415.
- Thomas, George P., Glenshaw, Pa. Punching machinery. No. 1,311,589; July 29; v. 264; p. 782.
- Thomas, Gustav A., Sandusky, Ohio. Game apparatus. No. 1,310,259; July 15; v. 264; p. 480.
- Thomas, Hanson, and J. Dahlstrom, Pittsburgh, Pa. Feed-regulator for powdered coal. No. 1,304,407; May 20; v. 262; p. 426.
- Thomas, Harold E. R., and F. G. Tams, assignors of one-third to Craven Brothers (Manchester) Limited, Reddish, Stockport, England. Metal-working lathe. No. 1,317,766; Oct. 7; v. 267; p. 20.
- Thomas, Harry J., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Hydraulic press for sizing turbine-blades. No. 1,311,540; July 29; v. 264; p. 782.
- Thomas, Harry L., Crum Lynne, Pa. Combination screen and ventilator. No. 1,302,729; May 6; v. 262; p. 47.
- Thomas, Horace T., Lansing, Mich. Steering-gear. No. 1,297,421; Mar. 18; v. 260; p. 423.
- Thomas, Horace T., Lansing, Mich. Socket-plug. No. 1,323,659; Dec. 2; v. 269; p. 81.
- Thomas, Hubert S., Llandaff, W. R. Davies, Whitchurch, near Cardiff, Wales, and R. B. Thomas, deceased, London, England; N. C. B. Thomas, Englefield Green, H. R. W. Anderson, London, and C. Bathurst, Lydney, England, executors. Manufacture of tin and terne plates and other like metal-coated plates or sheets and machinery or apparatus to be employed in said manufacture. No. 1,294,970; Feb. 18; v. 259; p. 530.
- Thomas, Hubert S., Llandaff, W. R. Davies, Whitchurch, near Cardiff, Wales, and R. B. Thomas, deceased; Nora C. B. Thomas, Englefield Green, H. R. W. Anderson, London, and C. Bathurst, Lydney, England, executors. Tinning-machine. No. 1,304,408; May 20; v. 262; p. 426.
- Thomas, Hugh S., Brooklyn, N. Y., assignor to J. D. Este Company, Philadelphia, Pa. Apparatus for playing roll-down games. No. 1,295,236; Feb. 25; v. 259; p. 615.
- Thomas, Hugh S., Brooklyn, N. Y. Amusement device. No. 1,316,819; Sept. 23; v. 266; p. 505.
- Thomas, James A., Longview, Tex. Spring-wheel. No. 1,315,055; Sept. 2; v. 266; p. 107.
- Thomas, James A., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Machine starting and stopping mechanism. No. 1,304,824; May 27; v. 262; p. 544.
- Thomas, James A., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Machine for nicking handkerchief-webs. No. 1,321,161; Nov. 11; v. 268; p. 215.
- Thomas, John A., assignor to the J. A. Thomas Company, Columbus, Ohio. Fire-fighting apparatus. No. 1,324,572; Dec. 9; v. 269; p. 300.
- Thomas, John B. (See Forkner, Robert F., assignor.)
- Thomas, John F., Peoria, assignor of one-half to W. F. Schafer, Elkhart, Ill. Robe-rail. No. 1,305,179; May 27; v. 262; p. 610.
- Thomas, John G. P., assignor to Thomas Foreign Patents Limited, Kensington, London, England. Power-transmission on rail and road trains and the like. No. 1,301,763; Apr. 22; v. 261; p. 789.
- Thomas, John G. P., assignor to Thomas Foreign Patents Limited, Kensington, London, England. Ignition of internal-combustion engines. No. 1,301,985; Apr. 29; v. 261; p. 842.



- Thomas, John G. P., London, assignor to Leyland Motors (1914) Ltd., Leyland, England. Electric starting and ignition system. No. 1,313,574; Aug. 19; v. 265; p. 376.
- Thomas, John H. (See Anderson, Robert H., assignor.)
- Thomas, John H., Mount Vernon, N. Y. Surgical-bandage fastener. No. 1,291,256; Jan. 14; v. 258; p. 320.
- Thomas, John H., Medindie, South Australia, Australia. Bogie for railway and tramway vehicles. No. 1,307,326; June 17; v. 263; p. 454.
- Thomas, John H., Mount Vernon, N. Y. Surgical-bandage fastener. No. 1,313,138; Aug. 12; v. 265; p. 277.
- Thomas, John N. (See Broome, Ernest L., assignor.)
- Thomas Manufacturing Company, The. (See Baxter, Leonidas, assignor.)
- Thomas Manufacturing Company. (See Pelton, Charles H., assignor.)
- Thomas, Nathanael, Keo, Ark. Boll- weevil- destroying plow. No. 1,297,933; Mar. 18; v. 260; p. 533.
- Thomas, Norah C. B., *et al.*, executors. (See Thomas and Davies.)
- Thomas-Oberkirch Company. (See Thomas, William M., assignor.)
- Thomas, Oliver W. (See Power, Richard F., assignor.)
- Thomas, Otho L. (See Calvert and Thomas.)
- Thomas, Owen W. (See Zesbaugh, Larson, Thomas, and Fryckberg.)
- Thomas P. Taylor Co., The. (See Jameson, George P., assignor.)
- Thomas, Percy H., Upper Montclair, N. J. Method of and means for supporting electric conductors. No. 1,326,307; Dec. 30; v. 269; p. 739.
- Thomas, Percy H., Upper Montclair, N. J. Insulator. No. 1,326,308; Dec. 30; v. 269; p. 739.
- Thomas, Phillips. (See Kempton and Thomas.)
- Thomas, Reinhold, Chicago, Ill. Stop mechanism for phonographs. No. 1,298,826; Apr. 1; v. 261; p. 49.
- Thomas, Richard B. (See Thomas and Davies.)
- Thomas, Samuel S. and E. F., Pampa, Tex. Attachment for headers. No. 1,323,502; Dec. 2; v. 269; p. 53.
- Thomas, Sherman A., assignor, by mesne assignments, to Food Appliances Manufacturing Corporation, Rochester, N. Y. Butter-patty-forming machine. No. 1,320,293; Oct. 28; v. 267; p. 609.
- Thomas Spark Plug Company. (See Thomas, William S., assignor.)
- Thomas, Stephen, New York, N. Y. Nut-lock. No. 1,311,727; July 29; v. 264; p. 816.
- Thomas, Thomas H. (See Turner and Thomas.)
- Thomas Walker & Son Limited. (See Dorey, Edgar W., assignor.)
- Thomas, Walter, Nanaimo, British Columbia, Canada. Reversible stove. No. 1,293,578; Feb. 4; v. 259; p. 140.
- Thomas, William M., Philadelphia, Pa. Fireproof floor construction. No. 1,290,804; Jan. 7; v. 258; p. 190.
- Thomas, William M., Los Angeles, Calif. Reinforced-concrete bridge construction. No. 1,303,741; May 13; v. 262; p. 263.
- Thomas, William M., assignor, by mesne assignments, to Thomas-Oberkirch Company Limited, New York, N. Y. Method of and apparatus for photographic exposures and projection. No. 1,313,615; Aug. 19; v. 265; p. 384.
- Thomas, William M., assignor to Thomas-Oberkirch Company, Limited, New York, N. Y. Photographic reeling apparatus. No. 1,317,404; Sept. 30; v. 266; p. 650.
- Thomas, William R., Great Falls, Mont. Plowshare. No. 1,303,129; May 6; v. 262; p. 124.
- Thomas, William R., assignor, by mesne assignments, of one-half to A. Price, Watertown, Wis. Railway-spike. No. 1,294,570; Feb. 18; v. 259; p. 438.
- Thomas, William S., Lock Haven, Pa. Spark-plug. No. 1,325,595; Dec. 23; v. 269; p. 569.
- Thomas, William S., Lock Haven, Pa., assignor to Thomas Spark Plug Company, New York, N. Y. Spark-plug. No. 1,300,048; Apr. 8; v. 261; p. 352.
- Thomas, Wion P., Kent, N. Y. Fruit grader and sizer. No. 1,326,117; Dec. 23; v. 269; p. 666.
- Thomassen, Harold. (See Roehringer and Thomassen.)
- Thomasson, Frederick F., Boise, Idaho. Spark-plug. No. 1,298,601; Mar. 25; v. 260; p. 700.
- Thomasson, Hugh W., St. Louis, Mo. Seeding-machine. No. 1,314,991; Sept. 2; v. 266; p. 95.
- Thompson, Albert R. (See Low and Thompson.)
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Cal. Traction-engine. No. 1,292,972; Jan. 28; v. 258; p. 785.
- Thompson, Alfred T. (See Fredricksen, John C., assignor.)
- Thompson, Archibald H., assignor to The Quaint Art Furniture Company, Inc., Syracuse, N. Y. Combined chair and desk or table. No. 1,293,246; Feb. 4; v. 259; p. 63.
- Thompson, Arthur A., Oakland, Calif. Velocipede. No. 1,308,309; July 1; v. 264; p. 55.
- Thompson, Arthur J., and H. R. Runke, Manistee, Mich. Basket-closure. No. 1,309,079; July 8; v. 264; p. 226.
- Thompson, Arthur W., Ottawa, Ontario, Canada. Operating mechanism for fuel-pumps of internal-combustion engines. No. 1,299,062; Apr. 1; v. 261; p. 103.
- Thompson, Augustus E., Brookline, Mass. Ice-creeper. No. 1,319,021; Oct. 14; v. 267; p. 321.
- Thompson & Bluger. (See Gautier, Raoul C., assignor.)
- Thompson, Boyd S., Grand Rapids, Mich. Gage. No. 1,318,934; Oct. 14; v. 267; p. 304.
- Thompson Brothers Boat Manufacturing Company. (See Thompson, Peter, assignor.)
- Thompson, Charles B., North Tonawanda, assignor to Thompson Heater Corporation, Buffalo, N. Y. Boiler. No. 1,326,621; Dec. 30; v. 269; p. 798.
- Thompson, Charles F., Washington, D. C. Resetting mechanism for counting-machines. No. 1,312,008; Aug. 5; v. 265; p. 29.
- Thompson, Charles X. (See Perry and Hulting, assignors.)
- Thompson, Clarence L., Fort Washington, N. Y. Photographic camera. No. 1,326,379; Dec. 30; v. 269; p. 752.
- Thompson, Clifford J., Miami, Fla. Turnbuckle. No. 1,317,605; Sept. 30; v. 266; p. 690.
- Thompson, Dewey E., Dawson, Minn. Attachment for grain-binders for treating binding-twine. No. 1,322,737; Nov. 25; v. 268; p. 614.
- Thompson, Don N. (See Morey and Thompson.)
- Thompson, Don N., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Lamp-socket. No. 1,313,139; Aug. 12; v. 265; p. 278.
- Thompson, Edmund J., Ottawa, Ontario, Canada. Car-bureter. No. 1,325,126; Dec. 16; v. 269; p. 465.
- Thompson, Elmer H., Manitowoc, Wis. Keel-block. No. 1,315,800; Sept. 9; v. 266; p. 250.
- Thompson, Elmer H., Manitowoc, Wis. Keel-block. No. 1,320,945; Nov. 4; v. 268; p. 111.
- Thompson, Emery, New Rochelle, N. Y. Ice-cream freezer. No. 1,294,571; Feb. 18; v. 259; p. 438.
- Thompson, Ernest H., New York, N. Y. Fare-register. No. 1,297,274; Mar. 11; v. 260; p. 363.
- Thompson, Ernst H., Baltimore, Md. Vibration-meter. No. 1,293,984; Feb. 11; v. 259; p. 266.
- Thompson, Ernest H., Evanston, Ill. Automatic coin-box. No. 1,325,766; Dec. 23; v. 269; p. 601.
- Thompson, Everett L., Jr., Dover, N. J., assignor to Sypho-Chemical Sprinkler Corporation, Croton-on-Hudson, N. Y. Automatic fire-extinguishing apparatus. No. 1,303,130; May 6; v. 262; p. 124.
- Thompson, Frank B. (See Watson, Harry E., assignor.)
- Thompson, Frank L., Oklahoma, Okla. Animal-poke. No. 1,295,815; Feb. 25; v. 259; p. 748.
- Thompson, Frederick R., Chicago, Ill. Film-wiping apparatus. No. 1,299,266; Apr. 1; v. 261; p. 148.
- Thompson, George. (See Joyce, Michael J., assignor.)
- Thompson, George S., Hockessin, Del. Fluid-pressure valve. No. 1,304,409; May 20; v. 262; p. 426.
- Thompson, George S., Hockessin, Del. Means of communication between aviators. No. 1,310,810; July 22; v. 264; p. 613.
- Thompson, Gustav F. (See Misfeldt, Max H., assignor.)
- Thompson, Gustav F. (See Vert, Jesse F., assignor.)
- Thompson, Harrison F., Vineland, N. J. Game. No. 1,322,150; Nov. 18; v. 268; p. 451.
- Thompson Heater Corporation. (See Thompson, Charles B., assignor.)
- Thompson, Henry B., assignor to L. R. Koch, New York, N. Y. Cinematographic target. No. 1,308,876; July 8; v. 264; p. 187.
- Thompson, Henry B., assignor to L. B. Koch, New York, N. Y. Cinematographic projector. No. 1,324,481; Dec. 9; v. 269; p. 283.
- Thompson, Herbert H. (See Tanner and Thompson.)
- Thompson, Herbert L. (See Redeker and Thompson.)
- Thompson, Herbert L., assignor to Elgin Gas Motor Company, Elgin, Ill. Gas-engine starter. No. 1,300,049; Apr. 8; v. 261; p. 352.
- Thompson, Horace W., Detroit, Mich., assignor to Bardons and Oliver, Cleveland, Ohio. Lathe-chuck. No. 1,320,660; Nov. 4; v. 268; p. 56.
- Thompson, Jack A., Smethwick, assignor of one-half to G. H. Alexander, Birmingham, England. Rust-proofing of iron and steel articles. No. 1,318,027; Oct. 7; v. 267; p. 70.
- Thompson, Jacob M., Fond du Lac, Wis. Concrete-wall-mold device. No. 1,291,257; Jan. 14; v. 258; p. 321.
- Thompson, James D., Toronto, Ontario, Canada. High explosive. No. 1,291,258; Jan. 14; v. 258; p. 321.
- Thompson, James V., assignor of one-half to C. A. Crislip, Spencer, W. Va. Hasp-lock. No. 1,315,883; Sept. 9; v. 266; p. 267.
- Thompson, Jay L., Hoosick Falls, N. Y. Spring-wheel. No. 1,321,162; Nov. 11; v. 268; p. 215.
- Thompson, Jesse C., assignor of one-half to T. W. Thompson, Marion, Ohio. Vehicle-signal. No. 1,316,068; Sept. 16; v. 266; p. 315.
- Thompson, John A., Sedro Woolley, assignor to Perfecto Gear Differential Co., Seattle, Wash. Tractor-wheel. No. 1,318,512; Oct. 14; v. 267; p. 224.
- Thompson, John B. (See Bagby and Thompson.)
- Thompson, John C., San Francisco, Calif. Duplex lift-valve. No. 1,319,437; Oct. 21; v. 267; p. 425.
- Thompson, John D., Rochester, N. Y. Signal. No. 1,312,217; Aug. 5; v. 265; p. 68.
- Thompson, John E., and C. W. Jameson, Chicago, Ill., assignors, by mesne assignments, to Atlas Electric Devices Co. Automatic controller. No. 1,306,202; June 10; v. 263; p. 213.
- Thompson, John L. (See Ellis and Thompson.)



## Alphabetical list of patentees—Continued.

- Thompson, John S., Chicago, Ill. Slug-casting machine. No. 1,290,805; Jan. 7; v. 258; p. 190.
- Thompson, John S., assignor to Thompson Type Machine Company, Chicago, Ill. Metal-casting machine. No. 1,291,259; Jan. 14; v. 258; p. 321.
- Thompson, John S., and J. Bast, assignors to Thompson Type Machine Company, Chicago, Ill. Machine for casting. No. 1,294,572; Feb. 18; v. 259; p. 439.
- Thompson, John T., Newport, Ky. Means for lubricating ammunition. No. 1,305,027; May 27; v. 262; p. 581.
- Thompson, John T., Newport, Ky. Means for lubricating ammunition. No. 1,305,028; May 27; v. 262; p. 581.
- Thompson, John T., Newport, Ky. Means for lubricating ammunition. No. 1,307,066; June 17; v. 263; p. 408.
- Thompson, John T., Newport, Ky. Cartridge-lubricator. No. 1,322,271; Nov. 18; v. 268; p. 475.
- Thompson, Joseph F., Kansas City, Mo. Bonding construction for buildings. No. 1,304,219; May 20; v. 262; p. 359.
- Thompson, Joseph M. (See Parker and Thompson.)
- Thompson, Lester E., Medford, Mass. Twyer. No. 1,293,985; Feb. 11; v. 259; p. 266.
- Thompson, Lester H., Brooklyn, N. Y., assignor of one-half to G. B. Chase, Oronoque, Conn. Tracking device for music-sheets. No. 1,324,941; Dec. 16; v. 269; p. 431.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Electrical regulator. No. 1,316,983; Sept. 23; v. 266; p. 534.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Magnetic time element. No. 1,316,984; Sept. 23; v. 266; p. 535.
- Thompson, Mary E., Newark, assignor of one-half to L. I. Green, East Orange, N. J. Elastic hose. No. 1,296,442; Mar. 4; v. 260; p. 140.
- Thompson, Melville W., New York, N. Y. Motion-picture. No. 1,292,153; Jan. 21; v. 258; p. 569.
- Thompson, Nello M., and E. F. O'Leary, Pueblo, Colo. Copy-holder. No. 1,306,788; June 17; v. 263; p. 356.
- Thompson, Nelson W., Oakland, assignor, by mesne assignments, to Shell Company of California, San Francisco, Calif. Apparatus for removing deposits from stills. No. 1,298,602; Mar. 25; v. 260; p. 700.
- Thompson, Newell A., Jr., et al. (See Peck, Harry H., assignor.)
- Thompson, Noah B., Maryville, Mo. Shears or scissors. No. 1,315,435; Sept. 9; v. 266; p. 185.
- Thompson, Oscar A., Redwing, Kans. Spark-intensifier. No. 1,312,368; Aug. 5; v. 265; p. 96.
- Thompson, Osceola C., New York, N. Y., assignor to Wire-bounds Patents Company. Box-end-stapling machine. No. 1,295,237; Feb. 25; v. 259; p. 615.
- Thompson, Orville W., Chicago, Ill. Gage. No. 1,324,988; Dec. 16; v. 269; p. 439.
- Thompson, Peter, assignor to Thompson Brothers Boat Manufacturing Company, Peshtigo, Wis. Canoe-form. No. 1,323,125; Nov. 25; v. 268; p. 687.
- Thompson, Robert, Jersey City, N. J. Gas-burner. No. 1,303,615; May 13; v. 262; p. 240.
- Thompson, Robert G., Seattle, Wash. Can opener and sealer. No. 1,307,940; June 24; v. 263; p. 599.
- Thompson, Stanley P., Seattle, Wash. Interest-computing machine. No. 1,311,100; July 22; v. 264; p. 666.
- Thompson, Stanley P., Seattle, Wash. Time and date indicator. No. 1,311,101; July 22; v. 264; p. 666.
- Thompson, Thomas, Makoti, N. D. Lock. No. 1,311,102; July 22; v. 264; p. 666.
- Thompson, Thomas A. (See Hartwig and Thompson.)
- Thompson, Thomas W. (See Thompson, Jesse C., assignor.)
- Thompson Type Machine Company. (See Thompson, John S., assignor.)
- Thompson Type Machine Company. (See Thompson and Bast, assignors.)
- Thompson, William B., Thornbank, Dundee, Scotland. Roller-riveting machine. No. 1,296,139; Mar. 4; v. 260; p. 75.
- Thompson, William D., and A. R. Wilson, assignors to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,323,336; Dec. 2; v. 269; p. 22.
- Thompson, William E., Farmingham, Wash. Split bearing and shim therefor. No. 1,294,848; Feb. 18; v. 259; p. 504.
- Thompson, William F., Philadelphia, Pa. Necktie-support. No. 1,318,242; Oct. 7; v. 267; p. 112.
- Thompson, William H., Marinette, assignor of one-third to B. Brill and one-third to S. M. Kohn, Green Bay, Wis. Pneumatic-tire-tube protector. No. 1,294,573; Feb. 18; v. 259; p. 439.
- Thompson, William J., Minneapolis, Minn. Transmission and gear-shifting means. No. 1,290,518; Jan. 7; v. 258; p. 122.
- Thompson, William J., Winnipeg, Manitoba, Canada. Fire-extinguisher. No. 1,320,587; Nov. 4; v. 268; p. 43.
- Thompson, William P., Liverpool, England. Wing-plane of flying-machines. No. 1,291,260; Jan. 14; v. 258; p. 321.
- Thompson, William P., Liverpool, England. Manufacturing certain lead products. No. 1,297,934; Mar. 18; v. 260; p. 533.
- Thompson, William P., Liverpool, England. Aeroplane. No. 1,301,196; Apr. 22; v. 261; p. 659.
- Thompson, William P., Providence, R. I. Tentering-machine. No. 1,326,309; Dec. 30; v. 269; p. 739.
- Thompson, Wilse A. S. (See Gunn and Thompson.)
- Thompson, Wilson, Flippin, Ark. Tool for marking and incising hinge-butt recesses. No. 1,295,386; Feb. 25; v. 259; p. 649.
- Thomson, Peter. (See Eggers and Thomson.)
- Thomson, Alexander, Sourlake, Tex. Combination set-collar for well-strainers. No. 1,323,205; Nov. 25; v. 268; p. 703.
- Thomson Electric Welding Company. (See Costello, Frederick A., assignor.)
- Thomson Electric Welding Company. (See Cutter, George A., assignor.)
- Thomson Electric Welding Company. (See Gravell, James H., assignor.)
- Thomson Electric Welding Company. (See Macneale, Neil, assignor.)
- Thomson Electric Welding Company. (See Palmer, Lindley G., assignor.)
- Thomson Electric Welding Company. (See Patscheider, Walter A., assignor.)
- Thomson Electric Welding Company. (See Pierce and Macneale, assignors.)
- Thomson Electric Welding Company. (See Rietzel, Adolph F., assignor.)
- Thomson Electric Welding Company. (See Ryder and Kersey, assignors.)
- Thomson Electric Welding Company. (See Schkommodau, Gustave H., assignor.)
- Thomson Electric Welding Co. (See Von Henke, Edmund J., assignor.)
- Thomson, John, New York, N. Y. Zigzag carbon electric resistor. No. 1,298,421; Mar. 25; v. 260; p. 661.
- Thomson, John, New York, N. Y. Zigzag carbon electric resistor. No. 1,299,265; Apr. 1; v. 261; p. 148.
- Thomson, John, New York, N. Y. Electric furnace for fusing metals. No. 1,308,877; July 8; v. 264; p. 187.
- Thomson, John, New York, N. Y. Preventing electric carbon resistors from oxidizing. No. 1,308,878; July 8; v. 264; p. 188.
- Thomson, John, New York, N. Y. Eliminating carbon dioxide and oxygen in electric smelting-furnaces. No. 1,308,879; July 8; v. 264; p. 188.
- Thomson, John, New York, N. Y. Electric furnace for fusing metals contained in crucibles. No. 1,308,880; July 8; v. 264; p. 188.
- Thomson, John, New York, N. Y. Zigzag carbon electric resistor. No. 1,318,028; Oct. 7; v. 267; p. 70.
- Thomson, John, New York, N. Y. Zigzag carbon electric resistor. No. 1,318,029; Oct. 7; v. 267; p. 70.
- Thomson, John, New York, N. Y. Tubular zigzag carbon electric resistor. No. 1,318,030; Oct. 7; v. 267; p. 70.
- Thomson, John, New York, N. Y. Tubular zigzag carbon electric resistor. No. 1,318,031; Oct. 7; v. 267; p. 71.
- Thomson, John, New York, N. Y. Zigzag carbon electric resistor. No. 1,321,682; Nov. 11; v. 268; p. 314.
- Thomson, John, New York, N. Y. Electric furnace for reducing oxidized zinc concentrates by carbon. No. 1,321,683; Nov. 11; v. 268; p. 314.
- Thomson Spot Welder Company. (See Gravell, James H., assignor.)
- Thomson, Thomas, Scunthorpe, England. Machinery or apparatus for handling, manipulating, or transporting steel and like metal plates. No. 1,305,319; June 3; v. 263; p. 17.
- Thomson, Waddy R., Lancaster, S. C. Spot-welding. No. 1,305,503; June 3; v. 263; p. 51.
- Thomson, Wardlaw B., W. D. Severn, and G. Twycross, Cape Town, South Africa. Manufacture of nitrated cellulose products. No. 1,302,455; Apr. 29; v. 261; p. 932.
- Thomson, William I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. System of distribution. No. 1,316,603; Sept. 23; v. 266; p. 464.
- Thomson, William P., New York, N. Y. Thrust-equalizing rail-plate. No. 1,298,827; Apr. 1; v. 261; p. 49.
- Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 1,299,634; Apr. 8; v. 261; p. 260.
- Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 1,306,981; June 17; v. 263; p. 391.
- Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 1,314,767; Sept. 2; v. 266; p. 55.
- Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,314,768; Sept. 2; v. 266; p. 55.
- Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,315,690; Sept. 9; v. 266; p. 230.
- Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Supporting construction for rail-joint bolts. No. 1,317,949; Oct. 7; v. 267; p. 55.
- Thomson, William S., assignor to The H. D. Smith & Company, Plantsville, Conn. Bearing. No. 1,307,029; June 17; v. 263; p. 401.
- Thon, Carl L., Harvey, N. D. Hay-sling. No. 1,292,154; Jan. 21; v. 258; p. 569.



- Thordarson, Chester H., Chicago, Ill. Transformer. No. 1,317,767; Oct. 7; v. 267; p. 20.
- Thordarson, Chester H., Chicago, Ill. Coil structure for transformers and the like. No. 1,326,223; Dec. 30; v. 269; p. 723.
- Thordarson Electric Manufacturing Co. (See Connor, Robert A., assignor.)
- Thoreau, John W., Geddes, S. D. Changeable sign. No. 1,314,165; Aug. 26; v. 265; p. 521.
- Thoreen, Eric G. (See Johnson and Thoreen.)
- Thorn, Charles N., *et al.* (See Moore, William J., assignor.)
- Thornberry, Charles O., and C. G. Wolgamott, Columbus, Ohio. Engine attachment. No. 1,295,387; Feb. 25; v. 259; p. 649.
- Thornberry, John R., (See McKee, James T., assignor.)
- Thornblade, Carl H., assignor to Pacific Electric Welder & Mfg. Co., Seattle, Wash. Electric welder. No. 1,292,921; Jan. 28; v. 258; p. 772.
- Thornburgh, Ivan D., Oakland, assignor to American Can Company, San Francisco, Calif. Sanitary-can end. No. 1,299,063; Apr. 1; v. 261; p. 103.
- Thornburgh, Ivan D., Berkeley, assignor to American Can Company, San Francisco, Calif. Gasket-lining can ends. No. 1,318,935; Oct. 14; v. 267; p. 304.
- Thorndike, Herbert A., assignor to Diadem Manufacturing Company, Fitchburg, Mass. Fan. No. 1,310,039; July 15; v. 264; p. 440.
- Thorne, Carl B., Hawkesbury, Ontario, Canada. Log-barker and the like. No. 1,319,935; Oct. 28; v. 267; p. 543.
- Thorne, Robert H., and F. J. Miller, Williamsport, Pa. Fire-hydrant. No. 1,296,714; Mar. 11; v. 260; p. 238.
- Thornhill, Don A., Syracuse, N. Y. Lubricator. No. 1,294,728; Feb. 18; v. 259; p. 475.
- Thornhill, James O., Jelle, Minn. Cotton-chopping machine. No. 1,305,840; June 3; v. 263; p. 115.
- Thorniley, Charles D. (See Thorniley, Clarence W., assignor.)
- Thorniley, Clarence W., assignor of one-third to C. D. Thorniley, Electra, Tex. Well-drilling apparatus. No. 1,291,261; Jan. 14; v. 258; p. 321.
- Thornton, Beatrice, Sacramento, Calif. Spoon-holder. No. 1,304,628; May 27; v. 262; p. 507.
- Thornton, C. A. (See Long, John R., assignor.)
- Thornton, Elizabeth W., West Philadelphia, Pa. Extension-table lock. No. 1,303,828; May 13; v. 262; p. 230.
- Thornton, Florence A., Corsicana, Tex. Sanitary under-protector. No. 1,311,728; July 29; v. 264; p. 816.
- Thornton, Frank, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Terminal device for electrical appliances. No. 1,308,127; July 1; v. 264; p. 22.
- Thornton, Frank, Jr., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method and apparatus for baking coatings on shell-casings. No. 1,321,492; Nov. 11; v. 268; p. 278.
- Thornton, Frank, Jr., Pittsburgh, and E. S. Zuck, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electric-arc-welding system. No. 1,296,020; Mar. 4; v. 260; p. 46.
- Thornton, Frank, Jr., Pittsburgh, and O. A. Colby, Larimer, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electric furnace. No. 1,306,289; June 10; v. 263; p. 232.
- Thornton, George A., assignor to Adams-Bagnall Electric Company, Cleveland, Ohio. Method and apparatus for marking metal. No. 1,309,160; July 8; v. 264; p. 241.
- Thornton, Gilbert L., and E. A. Olsen, Portland, Oreg. Chain. No. 1,293,247; Feb. 4; v. 259; p. 63.
- Thornton, John A., assignor of one-third to S. B. Moran and one-third to H. M. Moran, Sault Ste. Marie, Mich. Sanitary ice-cream cone. None 1,304,410; May 20; v. 262; p. 427.
- Thornton, Joseph N., *et al.* (See McGinn, Jack, assignor.)
- Thornton, Lola F., *et al.* (See McGinn, Jack, assignor.)
- Thornton, Samuel A., New Orleans, La. Tractor. No. 1,292,922; Jan. 28; v. 258; p. 773.
- Thornycroft, John E. (See Thornycroft, Tom and J. E.)
- Thornycroft, John I., Isle of Wight, England. Drawing-board. No. 1,316,931; Sept. 23; v. 266; p. 525.
- Thornycroft, Tom, Westminster, England. Means for launching torpedoes. No. 1,320,659; Nov. 4; v. 268; p. 56.
- Thornycroft, Tom, assignor to John I. Thornycroft & Co., Westminster, England. Internal-combustion engine. No. 1,308,562; July 1; v. 264; p. 101.
- Thornycroft, Tom and J. E., Westminster, England. Means for launching torpedoes. No. 1,320,661; Nov. 4; v. 268; p. 56.
- Thorold, Frederick W., E. G. R. Ardagh, and J. T. Burt-Gerrans, Toronto, Ontario, Canada. Means for making aqueous solutions of gases. No. 1,319,734; Oct. 28; v. 267; p. 505.
- Thorp, James M., Alameda, Calif. Explosion oil-engine. No. 1,312,460; Aug. 5; v. 265; p. 114.
- Thorpe, Clyde A., Adel, Iowa. Tile-cutting machine. No. 1,313,213; Aug. 12; v. 265; p. 291.
- Thorpe, Clinton C., Rosedale, Ind. Car-door. No. 1,316,203; Sept. 16; v. 266; p. 340.
- Thorson, Thorwald, Forest City, and F. M. Eller, Ames, Iowa. Mortar-joint raker and finisher. No. 1,310,639; July 22; v. 264; p. 581.
- Thorton, Ray, Dartmouth, Mass. Section beam-head. No. 1,297,751; Mar. 18; v. 260; p. 495.
- Thos. Firth and Sons Limited. (See Strang, Harry B., assignor.)
- Thos. Lemming & Co. (See Stewart, Alexander M., assignor.)
- Thrane, Victor, Christiania, Norway. Granulating cyanamid containing free lime. No. 1,326,310; Dec. 30; v. 269; p. 739.
- Three Leaf Cot Manufacturing Company. (See Clough, Alfred N., assignor.)
- Three Men Rail Laying Machine Company. (See Eggert, Charles J., assignor.)
- Thrift, Homer C., Goose Creek, Tex. Pipe-pulling device. No. 1,312,009; Aug. 5; v. 265; p. 29.
- Thrift, Homer C., assignor of one-half to C. H. Lane, Houston, Tex. Well-capping device. No. 1,323,660; Dec. 2; v. 269; p. 81.
- Throop, Charles G., Chicago, Ill. Spraying system. No. 1,305,180; May 27; v. 262; p. 610.
- Thropp, John E., assignor to The De Laski and Thropp Circular Woven Tire Company, Trenton, N. J. Fabric-laying attachment for tire-making machines. No. 1,321,493; Nov. 11; v. 268; p. 278.
- Thropp, John E., assignor to The De Laski and Thropp Circular Woven Tire Company, Trenton, N. J. Fabric-laying attachment for tire-making machines. No. 1,321,494; Nov. 11; v. 268; p. 278.
- Thropp, John E. and P. D., assignors to The De Laski and Thropp Circular Woven Tire Company, Trenton, N. J. Apparatus for impregnating fabric. No. 1,312,878; Aug. 12; v. 265; p. 225.
- Thropp, Joseph W., Trenton, N. J. Bearing for heavy rolls. No. 1,304,220; May 20; v. 262; p. 389.
- Thropp, Joseph W., Trenton, N. J. Pinion. No. 1,310,899; July 22; v. 264; p. 629.
- Thropp, Peter D. (See Thropp, John E. and P. D.)
- Thrower, Albert J., Dexter, Mo. Cotton-picker. No. 1,312,010; Aug. 5; v. 265; p. 29.
- Thullen, Louis H., assignor to Hall Switch & Signal Co., Brooklyn, N. Y. Automatic train or car stop system. No. 1,293,579; Feb. 4; v. 259; p. 140.
- Thullen, Louis H., Philadelphia, Pa. Control system for electric motors. No. 1,323,929; Dec. 2; v. 269; p. 133.
- Thullen, Louis H., New York, N. Y. System of control. No. 1,323,930; Dec. 2; v. 269; p. 133.
- Thuman, Francis J., Baltimore, Md. Hull of water-craft. No. 1,312,369; Aug. 5; v. 265; p. 96.
- Thuneman, Harry A., St. Louis, Mo. Pulverizer. No. 1,319,735; Oct. 28; v. 267; p. 505.
- Thunholm, Karl L. E., Örebro, Sweden. Evaporating apparatus. No. 1,324,417; Dec. 9; v. 269; p. 270.
- Thurman, William B. (See Soule, Arthur C., assignor.)
- Thurstensen, Soren, assignor to Henry Vogt Machine Company, Louisville, Ky. Furnace - grate. No. 1,292,923; Jan. 28; v. 258; p. 773.
- Thurston, Elmer A., assignor of one-half to J. H. Mason, Norfolk, Nebr. Flexible pitman. No. 1,313,764; Aug. 19; v. 265; p. 411.
- Thurston, Harold H., Anoka, Minn. Grader drag-plane. No. 1,303,415; May 13; v. 262; p. 204.
- Thurston, Howard, Beechhurst, N. Y. Theatrical apparatus. No. 1,324,630; Dec. 9; v. 269; p. 311.
- Thurston, Robert B., Oil Center, Calif. Oil-well pump. No. 1,318,513; Oct. 14; v. 267; p. 224.
- Thurston, Robert J., assignor to The Wire Goods Company, Worcester, Mass. Jar-lifter. No. 1,304,717; May 27; v. 262; p. 524.
- Thust, George J., Milwaukee, Wis. Reinforced box structure. No. 1,316,656; Sept. 23; v. 266; p. 475.
- Thwaites, William H., Grand Rapids, Mich. X-ray apparatus for dental use. No. 1,290,806; Jan. 7; v. 258; p. 191.
- Thwaites, Alfred J. (See Fromm and Thwaites.)
- Thwing, F. H. (See Cross, Roy, assignor.)
- Tibbets, Lewis D., Clayton, Wash. Inner tube for tires. No. 1,306,130; June 10; v. 263; p. 200.
- Tibbets, Fred O., assignor of one one-third to H. E. Jacobs, Henry, and one-third to G. A. Kutz, Peoria, Ill. Shock-absorber. No. 1,292,155; Jan. 21; v. 258; p. 570.
- Tibbets, Milton, Detroit, Mich. Motor-vehicle. No. 1,325,059; Dec. 16; v. 269; p. 452.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,291,262; Jan. 14; v. 258; p. 322.
- Tibbets, Milton, Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Refrigerating apparatus. No. 1,296,878; Mar. 11; v. 260; p. 275.
- Tibbets, Milton, Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Refrigerating apparatus. No. 1,296,879; Mar. 11; v. 260; p. 276.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,305,029; May 27; v. 262; p. 582.



## Alphabetical list of patentees—Continued.

- Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,305,030; May 27; v. 262; p. 582.
- Tibbetts, Milton, Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Refrigerating apparatus. No. 1,312,932; Aug. 12; v. 265; p. 236.
- Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Vibration damping device. No. 1,325,057; Dec. 16; v. 269; p. 452.
- Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,325,058; Dec. 16; v. 269; p. 452.
- Tibbits, Armand A., Omaha, Nebr. Tractor. No. 1,306,644; June 10; v. 263; p. 297.
- Tibbits, Armand A., Omaha, Nebr. Lock. No. 1,309,050; July 8; v. 264; p. 221.
- Tibbits, Armand A., Omaha, Nebr. Tractor. No. 1,326,805; Dec. 30; v. 269; p. 833.
- Tibbitts, Herbert O., Cleveland, Ohio. Feeding mechanism. No. 1,321,573; Nov. 11; v. 268; p. 293.
- Tiberti, Giuseppe O., Genoa, Italy. Rotary gas-engine. No. 1,309,554; July 8; v. 264; p. 314.
- Tice, Percival S., Detroit, Mich. Carbureter. No. 1,300,517; Apr. 15; v. 261; p. 479.
- Tice, Percival S., Detroit, Mich. Governing apparatus. No. 1,305,320; June 3; v. 263; p. 17.
- Tice, Percival S., Detroit, Mich. Carbureter. No. 1,321,952; Nov. 18; v. 268; p. 415.
- Tice, Percival S., Washington, D. C. Carbureter-governing device. No. 1,321,261; Nov. 11; v. 268; p. 234.
- Tice, William A., et al. (See Atkins, William, assignor.) (Reissue.)
- Tichenor, Carl M., Allston, assignor to Gray & Davis Inc., Cambridge, Mass. Dynamo-frame. No. 1,317,335; Sept. 30; v. 266; p. 637.
- Tidball, Aubrey J., Duluth, Minn. Guard for electric-light connections. No. 1,297,608; Mar. 18; v. 260; p. 463.
- Tidd Recording Clock Company. (See Tidd, Walter J., assignor.)
- Tidd, Walter J., Springfield, Mass. Antiskid device. No. 1,310,221; July 15; v. 264; p. 473.
- Tidd, Walter J., Springfield, Mass., assignor to Tidd Recording Clock Company. Time-recorder. No. 1,308,128; July 1; v. 264; p. 22.
- Tideman, Carl E., assignor of one-half to V. G. Anderson, Worcester, Mass. Hand-valve grinder. No. 1,306,932; June 17; v. 263; p. 282.
- Tideman, Carl E., assignor of one-half to V. G. Anderson, Worcester, Mass. Power-driven valve-grinder. No. 1,318,707; Oct. 14; v. 267; p. 261.
- Tideman, Sven, and J. W. Anderson, Columbus, Ohio. Electric-switch lock. No. 1,310,514; July 22; v. 264; p. 558.
- Tidlund, Edwin G. (See Broomall and Tidlund.)
- Tidlund, Edwin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,291,263; Jan. 14; v. 258; p. 322.
- Tidmarsh, Harry E., Bangor, Me., assignor of one-half to Union Iron Works. Wood-chipping apparatus. No. 1,295,388; Feb. 25; v. 259; p. 649.
- Tidmarsh, Harry E., Bangor, Me., assignor of one-half to Union Iron Works. Ball-bearing. No. 1,296,021; Mar. 4; v. 260; p. 46.
- Tidyman, Alvin L., Jennings, Kans. Trestle. No. 1,303,416; May 13; v. 262; p. 204.
- Tiedemann, Henry, assignor to Splittorf Electrical Company, Newark, N. J. Impulse starting-coupling. No. 1,295,633; Feb. 25; v. 259; p. 707.
- Tiedemann, Nicholas J., et al. (See Anderson, Otis W., assignor.)
- Tiedemann, Otto, assignor of one-half to W. D. Sharts, Dallas, Tex. Automobile-lock. No. 1,320,588; Nov. 4; v. 268; p. 43.
- Tiefel, Charles G. (See Todd and Tiefel.)
- Tiefel, Charles G. (See Todd, Tiefel, and La May.)
- Tiefel, Charles G., assignor to Todd Protograph Company, Rochester, N. Y. Check-writing machine. No. 1,302,244; Apr. 29; v. 261; p. 890.
- Tiefel, Charles G., assignor, by mesne assignments, to Todd Protograph Company, Rochester, N. Y. Check-writer. No. 1,307,566; June 24; v. 263; p. 531.
- Tiefel, Charles G., assignor, by mesne assignments, to Todd Protograph Company, Rochester, N. Y. Check-writer. No. 1,307,567; June 24; v. 263; p. 531.
- Tiefel, Charles G., and E. A. Weaver, assignors to Todd Protograph Company, Rochester, N. Y. Check-printing machine. No. 1,290,409; Jan. 7; v. 258; p. 95.
- Tiefel, Charles G., and A. C. La May, assignors, by mesne assignments, to Todd Protograph Company, Rochester, N. Y. Check-writer. No. 1,293,986; Feb. 11; v. 259; p. 266.
- Tiernan, Martin F. (See Wallace and Tiernan.)
- Tierney, Philip W. (See Parkinson, Welles, and Tierney.)
- Tierney, Philip W. (See Robertson and Tierney.)
- Tierney, William, Seattle, Wash. Burglar-alarm. No. 1,306,789; June 17; v. 263; p. 356.
- Tiers, Clarence V., Oakmont, Pa. Cooking utensil. No. 1,299,267; Apr. 1; v. 261; p. 148.
- Tiffany, George S., Summit, N. J., assignor to Tiffany Motor Company. Governor. No. 1,303,417; May 13; v. 262; p. 204.
- Tiffany, George S., Summit, N. J., assignor to Gray National Telautograph Company, New York, N. Y. Telautographic apparatus. No. 1,312,596; Aug. 12; v. 265; p. 171.
- Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Telautographic system. No. 1,314,617; Sept. 2; v. 266; p. 27.
- Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Telautographic apparatus. No. 1,314,618; Sept. 2; v. 266; p. 27.
- Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Telautographic apparatus. No. 1,314,619; Sept. 2; v. 266; p. 27.
- Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Telautographic apparatus. No. 1,314,620; Sept. 2; v. 266; p. 28.
- Tiffany, George S., Summit, N. J., assignor to Telautograph Corporation, Richmond, Va. Telautographic apparatus. No. 1,322,372; Nov. 18; v. 268; p. 494.
- Tiffany, Henry L., South Dartmouth, Mass. Cone-tube. No. 1,321,861; Nov. 18; v. 268; p. 398.
- Tiffany Motor Company. (See Tiffany, George S., assignor.)
- Tiffin Wagon Company, The. (See Shelly, William K., assignor.)
- Tigerman, William H. (See Neumann, Bernhard A., assignor.)
- Tilbury, Charles M., Zion City, Ill. Ground-working implement. No. 1,302,883; May 6; v. 262; p. 77.
- Tilden, Ellsworth, Duluth, Minn. Stump-burner. No. 1,310,718; July 22; v. 264; p. 595.
- Tilden, Ellsworth, Duluth, Minn. Sounding signal device for automobiles. No. 1,312,370; Aug. 5; v. 265; p. 96.
- Tillery, John F., Dallas, Tex. Traffic-signal. No. 1,326,118; Dec. 23; v. 269; p. 666.
- Tilley, Job B., Penn Yan, N. Y. Window-securing device. No. 1,290,410; Jan. 7; v. 258; p. 95.
- Tillman, Albert G., Vicksburg, Miss. Fastener for tooth-brush holders. No. 1,296,231; Mar. 4; v. 260; p. 95.
- Tillman, Albert G., Vicksburg, Miss. Tooth-brush holder and sterilizer. No. 1,306,933; June 17; v. 263; p. 383.
- Tillman, Ferdinand J., St. Louis, Mo. Cipher-printing mechanism. No. 1,301,986; Apr. 29; v. 261; p. 842.
- Tillman, John R., assignor to The Locomobile Company of America, Bridgeport, Conn. Oiling device. No. 1,318,417; Oct. 14; v. 267; p. 205.
- Tillman, Joseph T., Minneapolis, Minn. Envelop sealing and stamping machine. No. 1,312,597; Aug. 12; v. 265; p. 171.
- Tillquist, Hugo T. (See Perman, Per E., assignor.)
- Tilson, William H., Quincy, Ill. Overshoe attachment. No. 1,308,206; July 1; v. 264; p. 37.
- Tillyer, Edgar D. (See Hill, Tillyer, and Styll.)
- Tillyer, Edgar D., and H. H. Styll, assignors to American Optical Company, Southbridge, Mass. Molding lenses. No. 1,308,820; July 8; v. 264; p. 178.
- Tily, Stephen B., Bala, and M. O. and J. G. Rehffuss, Philadelphia, assignors to John Wanamaker, Philadelphia, Philadelphia, Pa. Measuring-machine. No. 1,293,987; Feb. 11; v. 259; p. 267.
- Tily, Stephen B., Bala, and M. O. and J. G. Rehffuss, assignors to John Wanamaker, Philadelphia, Pa. Tag printing and pinning machine. No. 1,326,806; Dec. 30; v. 269; p. 833.
- Timberlake, Daniel T., St. Louis, assignor to Universal Motor Truck and Traction Engine Company, St. James, Mo. Motor-truck. No. 1,294,198; Feb. 11; v. 259; p. 317.
- Timberlake, Daniel T., St. Louis, assignor to Universal Motor Truck and Traction Engine Company, St. Louis, Mo. Telescopic driving-shaft. No. 1,310,971; July 22; v. 264; p. 642.
- Time-Systems Company. (See Hale, Charles B., assignor.)
- Timken-Detroit Axle Company, The. (See Weaver, Robert B., assignor.)
- Timken, Henry H., Canton, Ohio. Cup for roller-bearings and making same. No. 1,326,224; Dec. 30; v. 269; p. 723.
- Timken, Henry H., Canton, Ohio. Cup for roller-bearings and making same. No. 1,326,225; Dec. 30; v. 269; p. 723.
- Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
- Timken Roller Bearing Company, The. (See Lothrop, Marcus T., assignor.)
- Timmerhoff, Ernest, Elkhart, Ind. Steering-wheel lock. No. 1,297,038; Mar. 11; v. 260; p. 312.
- Timmons, Sanford L., Des Moines, Iowa. Cultivator. No. 1,299,064; Apr. 1; v. 261; p. 103.
- Tin Decorating Company. (See Gerhardt, Leonard, assignor.)
- Tingley, Philo B., New York, N. Y. Re-aligning mechanism for writing-machines. No. 1,312,063; Aug. 5; v. 265; p. 40.
- Tinius, Olsen Testing Machine Company. (See Dysart, Arthur S., assignor.)
- Tinius Olsen Testing Machine Company. (See Foster, Louis E., assignor.)
- Tinker, Ralph, Little York, Ill. Reversible tractor-plow. No. 1,295,938; Mar. 4; v. 260; p. 27.
- Tinker, Wilkie, Anamoose, N. D. Tank-heater. No. 1,322,973; Nov. 25; v. 268; p. 658.



- Tinnerman, Albert H., Cleveland, Ohio. Convertible gas-burning oven. No. 1,325,767; Dec. 23; v. 269; p. 601.
- Tinnin, David S., Washington, D. C. Cigarette-holder. No. 1,309,707; July 15; v. 264; p. 379.
- Tinsley, Edward O., assignor to Robert Gair Company, Brooklyn, N. Y. Collapsible container. No. 1,296,140; Mar. 4; v. 260; p. 75.
- Tinsman, Edgar A. (See Dettling and Tinsman.)
- Tinsman, Samuel H., Morris, Ill. Agricultural machine. No. 1,317,739; Oct. 7; v. 267; p. 15.
- Tintanne, Emile, Camaguey, Cuba. Guiding device. No. 1,293,248; Feb. 4; v. 259; p. 63.
- Tintanné, Emile, Camaguey, Cuba. Scriber. No. 1,301,621; Apr. 22; v. 261; p. 740.
- Tippett, John C., San Francisco, Cal. Ventilator. No. 1,293,249; Feb. 4; v. 259; p. 63.
- Tippit, Thomas O., Blossom, Tex. Pencil attachment. No. 1,306,203; June 10; v. 263; p. 213.
- Tipp Whip Company, The. (See Harshberger, Harry J., assignor.)
- Tips Aero Motor Company. (See Tips, Maurice A., assignor.)
- Tips, Maurice, Woonsocket, R. I. Obturator. No. 1,306,034; June 10; v. 263; p. 182.
- Tips, Maurice A., assignor to Tips Aero Motor Company, Inc., Woonsocket, R. I. Internal-combustion engine. No. 1,306,035; June 10; v. 263; p. 182.
- Tips, Maurice A., assignor to Tips Aero Motor Company, Inc., Woonsocket, R. I. Valve-operating mechanism. No. 1,306,036; June 10; v. 263; p. 182.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulating system. No. 1,305,031; May 27; v. 262; p. 582.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vibrating contact-relay for electrical regulators. No. 1,312,503; Aug. 5; v. 265; p. 122.
- Tischler, Adolph and L. B., New York, N. Y. Sheet-metal molding. No. 1,315,260; Sept. 9; v. 266; p. 154.
- Tischler, Edward A., Floral Park, assignor of one-half to J. A. Russell, Brooklyn, N. Y. Fountain-pen clip. No. 1,320,946; Nov. 4; v. 268; p. 111.
- Tischler, Louis B. (See Tischler, Adolph and L. B.)
- Tiscornia, Frank E. (See Hill and Meroney, assignors.)
- Tisman, Abraham, New York, N. Y. Automobile-bumper. No. 1,292,156; Jan. 21; v. 258; p. 570.
- Tismer, Paul G., New York, N. Y. Valve. No. 1,314,378; Aug. 26; v. 265; p. 562.
- Tisserant, Auguste A. H., St.-Cloud, France. Motor road-vehicle. No. 1,310,972; July 22; v. 264; p. 642.
- Tissue Company, The, et al. (See Teall, Oliver E., assignor.)
- Titan Co. (See Jaeger, Anton P., assignor.)
- Titan Co. A/S. (See Farup, Peder, assignor.)
- Titanium Werke, Gesellschaft mit beschränkter Haftung. (See Kiehne, Fritz, assignor.)
- Titanium Alloy Manufacturing Company, The. (See Barton, Louis E., assignor.)
- Titanium Alloy Manufacturing Company, The. (See Barton and Gardner, assignors.)
- Titcomb, Lee R., Danville, Ill. Rectifier for automobile-generators. No. 1,295,389; Feb. 25; v. 259; p. 649.
- Titeflex Metal Hose Corporation. (See Brinkman, Louis H., assignor.)
- Titeflex Metal Hose Corporation. (See Fletcher and Titeflex, assignors.)
- Title Insurance and Trust Company. (See Hanson, Earl C., assignor.)
- Titterington, Morris M., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Self-damping gyro-pendulum. No. 1,324,482; Dec. 9; v. 269; p. 283.
- Tittle, Lee. (See Anderson, Lewis, assignor.)
- Tittle, Leonidas L., Jr., Dayton, Ohio. Funnel. No. 1,306,319; June 10; v. 263; p. 237.
- Titus, Thomas L., assignor to Titus Valve Company, Omaha, Nebr. Fluid-pressure valve. No. 1,319,022; Oct. 14; v. 267; p. 322.
- Titus Valve Company. (See Titus, Thomas L., assignor.)
- Toaz, Glenn A., W. E. Wilber, and H. E. Maynard, Detroit, Mich. Steering-gear. No. 1,310,222; July 15; v. 264; p. 473.
- Tobey, Fred W., Grand Rapids, Mich. Type-writer desk or cabinet. No. 1,295,390; Feb. 25; v. 259; p. 650.
- Tobiason, Carl T., and O. Swanson, Sycamore, Ill.; said Tobiason assignor to said Swanson. Supporting-clamp. No. 1,301,885; Apr. 29; v. 261; p. 823.
- Tobin, John M., New York, N. Y. Nasal nozzle. No. 1,298,422; Mar. 25; v. 260; p. 661.
- Tobin, John E., Mansfield, Ohio. Track elevating and ballasting machine. No. 1,313,353; Aug. 19; v. 265; p. 334.
- Tobin, Nathan L., Chicago, Ill. Pneumatic automobile-tire. No. 1,300,050; Apr. 8; v. 261; p. 352.
- Tobin, Stephen J., assignor to Laursen Automatic Pump Co., Menomonee, Wis. Fluid-operated pumping mechanism. No. 1,304,411; May 20; v. 262; p. 427.
- Tocknell, Charles W., Kenilworth, N. J. Bottle-holder. No. 1,301,886; Apr. 29; v. 261; p. 823.
- Todd, Andrew A. (See Carey and Todd.)
- Todd, Edward W. (See Foster and Kelley, assignors.)
- Todd, Frederick A., Butte, Mont. Aerial camera. No. 1,313,564; Aug. 19; v. 265; p. 374.
- Todd, Frederick J., Egg Harbor, N. J., assignor to J. E. Marsden, Philadelphia, Pa. Window-regulator. No. 1,304,825; May 27; v. 262; p. 544.
- Todd, James E., Philadelphia, Pa. Potato-cutter. No. 1,320,294; Oct. 28; v. 267; p. 610.
- Todd, James T. A., Fort Worth, Tex. Bale-tie buckle. No. 1,306,565; June 10; v. 263; p. 282.
- Todd, Libanus M., assignor, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,308,648; July 1; v. 264; p. 117.
- Todd, Libanus M., and C. G. Tiefel, assignors, by mesne assignments, to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,293,988; Feb. 11; v. 259; p. 267.
- Todd, Libanus M., C. G. Tiefel, and A. C. La May, assignors, by mesne assignments, to Todd Protectograph Company. Check-writer. No. 1,299,521; Apr. 8; v. 261; p. 233.
- Todd, Percy, Gadsden, Ala. Shock-absorber. No. 1,292,539; Jan. 28; v. 258; p. 682.
- Todd, Perry W., Denver, Colo. Means for introducing moist air to internal-combustion engines. No. 1,324,284; Dec. 9; v. 269; p. 244.
- Todd Protectograph Company. (See Angell, Edwin E., assignor.)
- Todd Protectograph Company. (See Maisch, Gustav F., assignor.)
- Todd Protectograph Company. (See Sampson, Charles H., assignor.)
- Todd Protectograph Company. (See Tiefel, Charles G., assignor.)
- Todd Protectograph Company. (See Tiefel and La May, assignors.)
- Todd Protectograph Company. (See Tiefel and Weaver, assignors.)
- Todd Protectograph Company. (See Todd, Libanus M., assignor.)
- Todd Protectograph Company. (See Todd and Tiefel, assignors.)
- Todd Protectograph Company. (See Todd, Tiefel, and La May, assignors.)
- Todd, William H., Kansas City, Mo. Direction-indicator for motor-cars. No. 1,317,740; Oct. 7; v. 267; p. 15.
- Todd, William P., Princess Anne, Md. Lifting device. No. 1,317,464; Sept. 30; v. 266; p. 662.
- Todhunter, William J., Chicago, Ill. Cooling and conveying mechanism. No. 1,298,828; Apr. 1; v. 261; p. 49.
- Todisco, Michael, Brooklyn, N. Y. Projectile. No. 1,325,706; Dec. 23; v. 269; p. 590.
- Todman, James C., Acton, T. L. R. Cooper, Ealing, and A. A. Lyon, Harrow, London, England. Brush-gear for dynamo-electric machines. No. 1,298,829; Apr. 1; v. 261; p. 49.
- Toennesen, Peter S., Everett, Mass. Damper-plate for car-bolsters. No. 1,295,634; Feb. 25; v. 259; p. 707.
- Toettcher, George, and C. O. Winkler, St. Louis, Mo. Motor-vehicle-converting apparatus. No. 1,296,340; Mar. 4; v. 260; p. 119.
- Toffelmier, Lance J. (See Miller and Toffelmier.)
- Tofias, Julius, Winthrop, assignor, by mesne assignments, to W. M. Jameson, Cambridge, Mass. Apparatus for molding and shaping hat parts. No. 1,303,992; May 20; v. 262; p. 348.
- Tognacci, Nazzereno, Kincaid, Ill. Ship-raising device. No. 1,302,245; Apr. 29; v. 261; p. 890.
- Tokuhisa, Takeji. (See Aoki, Shizutaro, assignor.)
- Tolbert, Harry C., Hoyt, Colo. Bean-harvester. No. 1,306,204; June 10; v. 263; p. 213.
- Toledo Bending Company, The. (See Woodfield, George H., assignor.)
- Toledo Glass Company, The. (See La France, Richard, assignor.)
- Toledo Glass Company, The. (See Owens, Michael J., assignor.)
- Toledo Scale Company. (See Bergen, Harry S., assignor.)
- Toledo Scale Company. (See Chapman, Frank H., assignor.)
- Toledo Scale Company. (See Crane, Samuel G., assignor.)
- Toledo Scale Company. (See Dunn, Henry E., assignor.)
- Toledo Scale Company. (See Haggood, Clarence H., assignor.)
- Toledo Scale Company. (See Hem, Halvor O., assignor.)
- Toledo Scale Company. (See Theobald, John L., assignor.)
- Toledo Scale Company. (See Thomas, Edward G., assignor.)
- Toledo Scale Company. (See Wetzel, Lewis C., assignor.)
- Toledo Standard Commutator Company, The. (See Janke, Henry P., assignor.)
- Toledo Steel Barrel Company. (See Buchenberg, Alvin E., assignor.)
- Tolentini, Filippo, assignor to P. W. Como, Woodlawn, Pa. Ointment and preparing same. No. 1,314,444; Aug. 26; v. 265; p. 575.
- Tolhurst, Louis H., Los Angeles, Calif. Camera. No. 1,305,841; June 3; v. 263; p. 115.
- Tolhurst Machine Works. (See Bryson, Tandy A., assignor.)
- Toll, Edward B., Yakima, Wash. Truss. No. 1,320,105; Oct. 28; v. 267; p. 574.



## Alphabetical list of patentees—Continued.

- Toll, Herman H., assignor to Clarinda Lawn Mower Company, Clarinda, Iowa. Wringer-driving mechanism. No. 1,325,884; Dec. 23; v. 269; p. 623.
- Toll, Herman H., and F. C. Duff, Clarinda, Iowa. Power washing-machine. No. 1,305,953; June 3; v. 263; p. 137.
- Toll, William C., Simcoe, Ontario, Canada. Tonsillotome. No. 1,316,003; Sept. 16; v. 266; p. 303.
- Tollerton, William J. (See Chenoweth and Tollerton.)
- Tolles, Harry A., and G. H. Ernsharger, Florence, Colo., assignors of one-half to J. D. Blunt and D. A. Hessick. Method and apparatus for producing motion-pictures. No. 1,308,207; July 1; v. 264; p. 37.
- Tollhurst Machine Works. (See Bryson, Tandy A., assignor.)
- Tollis, Vincent, Clifton Springs, N. Y. Budding-clasp. No. 1,316,467; Sept. 16; v. 266; p. 390.
- Tolliver, John W., Buffalo, N. Y. Rotary internal-combustion engine. No. 1,296,880; Mar. 11; v. 260; p. 276.
- Tolman, Arthur G., Milwaukee, Wis. Means of applying sheathing to corrugated roofing. No. 1,298,830; Apr. 1; v. 261; p. 49.
- Tolman, Arthur G., Milwaukee, Wis. Roof-surfacing machine. No. 1,319,438; Oct. 21; v. 267; p. 426.
- Tolman, Roy D., Worcester, Mass. Ballot-counting apparatus. No. 1,319,255; Oct. 21; v. 267; p. 391.
- Tolman, Scott H., Boston, Mass. Hydroaeroplane. No. 1,314,227; Aug. 26; v. 265; p. 533.
- Tolman, Scott H., Boston, Mass. Spring-regulating device. No. 1,324,083; Dec. 9; v. 269; p. 206.
- Tolman, Scott H., Boston, Mass. Spring-adjusting device. No. 1,324,084; Dec. 9; v. 269; p. 206.
- Tolotti, Giulio. (See Pavest and Tolotti.)
- Tolson, Robert L., assignor of one-half to W. L. Neill, Forrest City, Ark. Tractor. No. 1,323,126; Nov. 25; v. 268; p. 687.
- Tom Thumb Tractor Company. (See Nelson, De Witt, assignor.)
- Tom Thumb Tractor Company. (See Nelson and Steele, assignors.)
- Tomalpa Mfg. Co. (See Philpot, Albert D., assignor.)
- Tomanek, Josef, Truscott, Tex. Combined gun and knife. No. 1,290,807; Jan. 7; v. 258; p. 191.
- Tomashevsky, Michael N., Chipman, Alberta, Canada. Gate-operating device. No. 1,294,849; Feb. 18; v. 259; p. 504.
- Tomasshot, Arthur W., assignor to The General Laboratories Company, Cleveland, Ohio. Cleaning preparation. No. 1,316,090; Sept. 16; v. 266; p. 319.
- Tomasik, Peter, administrator. (See Janczyk, Jakob.)
- Tomaszak, Antoni, assignor of forty one-hundredths to J. Skowrya, Cohoes, N. Y. Trolley-wheel. No. 1,300,303; Apr. 15; v. 261; p. 433.
- Tomaszewicz, Boleslaw, Flint, Mich. Railway-joint. No. 1,290,411; Jan. 7; v. 258; p. 96.
- Tomb, Jay A. (See Henderson, Jerry, assignor.)
- Tomkinson, Charles C. (See Ogden and Tomkinson.)
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountville, Cornwall, N. Y. Movable column. No. 1,309,666; July 15; v. 264; p. 372.
- Tomlin, Burdette. (See De Vault, William, assignor.)
- Tomlinson, Charles H., Mansfield, Ohio. Car and electric coupling device. No. 1,300,789; Apr. 15; v. 261; p. 537.
- Tomlinson, Charles H., Mansfield, Ohio. Car, air, and electric coupling. No. 1,319,311; Oct. 21; v. 267; p. 402.
- Tomlinson, Daniel W., Jr. (See Adsit, William H., assignor.)
- Tomlinson, Edward J., assignor to Splittorf Electrical Company, Newark, N. J. Timer-distributor mechanism. No. 1,303,523; May 13; v. 262; p. 224.
- Tomlinson, Edward J., assignor to Splittorf Electrical Company, Newark, N. J. Binding-post for electric cables. No. 1,303,524; May 13; v. 262; p. 224.
- Tomlinson, Edward J., assignor to Splittorf Electrical Company, Newark, N. J. Clutch. No. 1,323,797; Dec. 2; v. 269; p. 108.
- Tomlinson, Edward J., Newark, and S. C. McKeown, East Orange, assignors to Splittorf Electrical Company, Newark, N. J. Electrical switch. No. 1,302,730; May 6; v. 262; p. 47.
- Tomlinson, Henry W., Chicago, Ill. Building foundations. No. 1,320,720; Nov. 4; v. 268; p. 67.
- Tomlinson, Herbert O., Wheaton, Ill. Electric-light fixture. No. 1,320,809; Nov. 4; v. 268; p. 85.
- Tomlinson, Roy E., Montclair, N. J., and H. H. Hungerford, Chicago, Ill., assignors to National Biscuit Company, New York, N. Y. Biscuit-container. No. 1,311,541; July 29; v. 264; p. 782.
- Tomlinson, Walter H., Chicago, Ill. Doughnut-machine. No. 1,320,662; Nov. 4; v. 268; p. 56.
- Tommasi, Nobile C., Basel, Switzerland, assignor to Usines Electriques de la Lonza, Gampel, Switzerland. Obtaining nitrogen from air. No. 1,295,635; Feb. 25; v. 259; p. 707.
- Tompkins, Henry M., Detroit, Mich. Unit for motor-vehicle construction. No. 1,304,121; May 20; v. 262; p. 7.
- Tompkins, Samuel J., Willoughby, Ohio. Propelling mechanism for automotive sleighs. No. 1,326,548; Dec. 30; v. 269; p. 785.
- Tompsett, Frank G., Omaha, Nebr. Electrical amplifier for spark-plugs. No. 1,323,503; Dec. 2; v. 269; p. 53.
- Toms, Clinton W., assignor to Liggett & Myers Tobacco Company, New York, N. Y. Tobacco blend and making same. No. 1,325,060; Dec. 16; v. 269; p. 453.
- Tonahill, William J., Jr., Palestine, Tex. Hose-supporter. No. 1,322,373; Nov. 18; v. 268; p. 494.
- Tondeur, Cleon H., Canastota, N. Y. Resilient tire. No. 1,319,539; Oct. 21; v. 267; p. 445.
- Tone Brothers. (See Tone, Jay E., assignor.)
- Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article. No. 1,296,715; Mar. 11; v. 260; p. 238.
- Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory article. No. 1,303,993; May 20; v. 262; p. 348.
- Tone, Frank J., and E. S. Smith, assignors to The Carborundum Company, Niagara Falls, N. Y. Can. No. 1,305,756; June 3; v. 263; p. 99.
- Tone, Fred I., Indianapolis, Ind. Valve mechanism for internal-combustion engines. No. 1,291,264; Jan. 14; v. 258; p. 322.
- Tone, Fred I., Indianapolis, Ind. Brake-equalizing device. No. 1,298,831; Apr. 1; v. 261; p. 50.
- Tone, Fred I., Indianapolis, Ind. Cam-shaft-operating means for internal-combustion engines. No. 1,300,518; Apr. 15; v. 261; p. 480.
- Tone, Fred I., Indianapolis, Ind. Internal-combustion engine. No. 1,309,919; July 15; v. 264; p. 419.
- Tone, Jay E., assignor to Tone Brothers, Des Moines, Iowa. Percolator. No. 1,319,661; Oct. 21; v. 267; p. 468.
- Toner, Edward J., New York, N. Y. Street-sign. No. 1,292,973; Jan. 28; v. 258; p. 785.
- Toney, Jay, Omaha, Nebr. Amusement device. No. 1,305,842; June 3; v. 263; p. 115.
- Tong, James T., Chester, Pa., assignor to Scott Paper Company. Means for making paper. No. 1,295,636; Feb. 25; v. 259; p. 707.
- Toniolo, Carlo, Milan, Italy. Oxidation of ammonia. No. 1,318,936; Oct. 14; v. 267; p. 305.
- Tonk, William H., assignor to William Tonk & Bro. Inc., New York, N. Y. Combined horn and sound-box. No. 1,311,300; July 29; v. 264; p. 736.
- Tonkinson, William G., and A. G. Hausam, St. Louis, Mo. Dental-inlay-casting machine. No. 1,324,326; Dec. 9; v. 269; p. 252.
- Tooke, William A. (See Sipperly, John E., assignor.)
- Tooke, William A. (See Sudiah, Rachel, assignor.)
- Tooker, Harold A., Seneca, N. Mex. Vise. No. 1,305,321; June 3; v. 263; p. 18.
- Toole, Edward, assignor of one-half to E. H. McLennan, Gloucester, N. J. Rim-collapsing device. No. 1,291,265; Jan. 14; v. 258; p. 323.
- Toole, Lucius C. and M. R., Jersey City, N. J., assignors to Motion Picture Chair Co., Inc., New York, N. Y. Theater-chair. No. 1,299,810; Apr. 8; v. 261; p. 300.
- Toole, Marguerite R. (See Toole, Lucius C., and M. R.)
- Toomer, William H., Elgin, Manitoba, Canada. Grain-car door. No. 1,317,336; Sept. 30; v. 266; p. 637.
- Toomey, John A., Los Angeles, Calif. Internal-combustion engine. No. 1,304,629; May 27; v. 262; p. 507.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite ringing apparatus. No. 1,290,808; Jan. 7; v. 258; p. 191.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing apparatus for four-wire repeater-circuits. No. 1,295,816; Feb. 25; v. 259; p. 749.
- Toomey, John F., New York, and C. S. Demarest, Flatbush, N. Y., assignors to American Telephone and Telegraph Company. Selecting-circuit for artificial lines. No. 1,308,725; July 1; v. 264; p. 132.
- Toomey, John F., New York, and C. S. Demarest, Flatbush, N. Y., assignors to American Telephone and Telegraph Company. Means for controlling artificial lines. No. 1,308,726; July 1; v. 264; p. 132.
- Toomey, John F., New York, and C. S. Demarest, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Transmission-controlling means for four-wire repeaters. No. 1,318,937; Oct. 14; v. 267; p. 305.
- Toomey, Patrick A., Chicago, Ill. Machine for casting stereotype printing-plates. No. 1,309,309; July 8; v. 264; p. 268.
- Topham, Laurence E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon leather. No. 1,291,661; Jan. 14; v. 258; p. 416.
- Topham, Laurence E., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon leather. No. 1,301,336; Apr. 22; v. 261; p. 688.
- Topp-Stewart Tractor Co. (See Stewart, Alexander, assignor.)
- Topping, John A., Chicago, Ill. Lamp. No. 1,324,942; Dec. 16; v. 269; p. 431.



- Torazzi, Mario F., Sandgate, Queensland, Australia, assignor to Vickers Limited, Westminster, London, England. Torpedo. No. 1,315,352; Sept. 9; v. 266; p. 171.
- Torcrete Shipbuilding Corporation. (See Weber, Carl, assignor.)
- Torgler, Fred E., *et al.* (See Garnett, Thomas W., assignor.)
- Torke, Herman G., Plymouth, Wis. Road scraper or drag. No. 1,322,974; Nov. 25; v. 268; p. 658.
- Torkelson, Isak O., assignor of one-half to L. O. Torkelson, New Brighton, N. Y. Combination milk and mail box. No. 1,313,354; Aug. 19; v. 265; p. 334.
- Torkelson, Lars O. (See Torkelson, Isak O., assignor.)
- Torkelson, Reinhard T., Worcester, assignor to F. I. Johnson, Fitchburg, Mass. Wire-rope-clamping device. No. 1,297,039; Mar. 11; v. 260; p. 312.
- Torkelson, Reinhard T., Worcester, assignor to F. I. Johnson, Fitchburg, Mass. Spoke-clamp for non-skid chains. No. 1,304,122; May 20; v. 262; p. 371.
- Torman Bassett Company, The. (See Barker, James, assignor.)
- Tornberg, Isidor, assignor to R. Hoe and Co., New York, N. Y. Web-feeding mechanism for printing-machines. No. 1,304,630; May 27; v. 262; p. 507.
- Tornblom, Ernst A. E., Eskilstuna, Sweden. Electric regulating resistance. No. 1,306,085; June 10; v. 263; p. 191.
- Torneden, Carl A., Linwood, Kans. Gate or door latch. No. 1,322,272; Nov. 18; v. 268; p. 475.
- Torner, Isaac, and E. Tetzl, Jr., Terre Haute, Ind. Plastic-mold. No. 1,313,355; Aug. 19; v. 265; p. 334.
- Tornsjö, Gustaf E., St. Paul, Minn. Photographic-printing apparatus. No. 1,303,418; May 13; v. 262; p. 205.
- Tornsjö, Gustaf E., St. Paul, assignor to National Novelty Company, Minneapolis, Minn. Film-clip. No. 1,317,243; Sept. 30; v. 266; p. 620.
- Toronto Type Foundry Company. (See Rennie, William J., assignor.)
- Torrance, Henry, New York, N. Y. Absorption apparatus. No. 1,311,627; July 29; v. 264; p. 797.
- Torrance, Robert J., Dallas, Tex. Packing-ring for pistons. No. 1,294,199; Feb. 11; v. 259; p. 317.
- Torres, Juan V., *et al.* (See Fernandez, Abel, assignor.)
- Torrie, George, Seven Kings, England. Boat-lowering gear. No. 1,306,645; June 10; v. 263; p. 297.
- Torrington Company, The. (See Chase, Frank S., assignor.)
- Torrington Company. (See Graham, James H., assignor.)
- Torrington Company, The. (See Johnson and Thoreen, assignors.)
- Torris Wold & Company. (See Cameron, William, assignor.)
- Torsell, Carl T., Warren, Ohio. Muffle-furnace. No. 1,295,637; Feb. 25; v. 259; p. 707.
- Torsion Balance Company, The. (See Becker, Christopher A., assignor.)
- Toscan, James E., Jamestown, N. Y. Insole lining or pad. No. 1,304,826; May 27; v. 262; p. 544.
- Tost, Charles R., Cranston, assignor to The Hadley Company, Providence, R. I. Catch for bracelets. No. 1,292,924; Jan. 28; v. 258; p. 773.
- Tost, Charles R., Cranston, R. I., assignor to The Hadley Company, Providence, R. I. Catch for bracelets. No. 1,316,869; Sept. 23; v. 266; p. 513.
- Totalux Company, The. (See Ford, Frederick H., assignor.)
- Toth, Frank, Toledo, Ohio. Railway-spike. No. 1,323,728; Dec. 2; v. 269; p. 94.
- Toth, Frank B., Horton, Wyo. Sliding ladder for ships. No. 1,314,769; Sept. 2; v. 266; p. 55.
- Tothill, William S., Lockport, N. Y. Neckband for shirts. No. 1,304,921; May 27; v. 262; p. 561.
- Totman, Jonathan M., Sioux Falls, S. D. End-board fastening. No. 1,317,337; Sept. 30; v. 266; p. 638.
- Touchette, Alfred, Burlington, Vt. Figure toy. No. 1,316,522; Sept. 16; v. 266; p. 401.
- Touchette, William H., assignor of one-half to F. R. Clement, Burlington, Vt. Double-exposure preventer. No. 1,303,742; May 13; v. 262; p. 263.
- Touchette, William H., assignor of one-half to F. R. Clement, Burlington, Vt. Double-exposure preventer for cameras. No. 1,326,119; Dec. 23; v. 269; p. 667.
- Tough, James C., assignor to Dubois Watch Case Company, New York, N. Y. Watch. No. 1,292,540; Jan. 28; v. 258; p. 682.
- Tourtelotte, William E., San Mateo, Calif. Mold for concrete wall column and girder construction. No. 1,323,557; Dec. 2; v. 269; p. 63.
- Toussaint, Arthur F. C., deceased, New York, N. Y.; P. Toussaint administrator. System for automatically stopping railway-trains. No. 1,317,405; Sept. 30; v. 266; p. 651.
- Toussaint, Philip, administrator. (See Toussaint, Arthur F. C.)
- Tovrea, Harry R., Portland, Oreg. Milking-stool. No. 1,295,238; Feb. 25; v. 259; p. 615.
- Tower, Andrew J., Mendota, Ill. Cultivator attachment. No. 1,304,631; May 27; v. 262; p. 508.
- Tower, Edwin B. H., Jr., Milwaukee, Wis., and R. H. Van Nest, Chicago, Ill., assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Welding-controller. No. 1,298,603; Mar. 25; v. 260; p. 701.
- Tower, Elmer V., Detroit, Mich. Compression-strip. No. 1,307,711; June 24; v. 263; p. 557.
- Towers, Arthur A., assignor to W. E. Blackie, Cleveland, Ohio. Automobile side and door curtain. No. 1,322,975; Nov. 25; v. 268; p. 659.
- Towers, Arthur S., Hartford, Conn. Propelling mechanism. No. 1,319,540; Oct. 21; v. 267; p. 445.
- Towl, Charles, Forest Gate, and D. J. Smith, Finsbury Park, London, England. Means for automatically operating bulkhead-doors, sluice-gates, and the like. No. 1,323,424; Dec. 2; v. 269; p. 38.
- Towle, Urban A. (See Whitmore, George C., assignor.)
- Towle, William J., St. Paul, Minn. Air-inlet means for containers. No. 1,296,341; Mar. 4; v. 260; p. 119.
- Towle, William J., St. Paul, Minn. Closure for containers. No. 1,296,716; Mar. 11; v. 260; p. 238.
- Towler, David L., Newark, N. J. Wheel-puller. No. 1,305,322; June 3; v. 263; p. 18.
- Towne, Norman D. (See Towne, Samuel F. and N. D.)
- Towne, Robert S., New York, N. Y., and F. B. Flinn, Orange, N. J., assignors to Bubble-Column Corporation. Separating ore materials from each other. No. 1,295,817; Feb. 25; v. 259; p. 749.
- Towne, Robert S., New York, N. Y., and F. B. Flinn, Orange, N. J., assignors, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Apparatus for separating ore materials from each other. No. 1,317,244; Sept. 30; v. 266; p. 620.
- Towne, Samuel F. and N. D., Philadelphia, Pa. Hair curler and waver. No. 1,290,684; Jan. 7; v. 258; p. 163.
- Towner, Heber F., Santa Ana, Calif. Subsoiler, plow, and the like. No. 1,309,920; July 15; v. 264; p. 419.
- Townes, Thomas P., Springfield, Ill. Anti-back-firing device for automobile-cranks. No. 1,304,632; May 27; v. 262; p. 508.
- Townley, Percy, San Antonio, Tex. Clothes pin or clamp. No. 1,322,655; Nov. 25; v. 268; p. 599.
- Townsend, Arthur J., and H. M. Naugle, Canton, Ohio. Pressed-steel machine parts and making the same. No. 1,317,055; Sept. 23; v. 266; p. 548.
- Townsend, Arthur J., Canton, assignor to The National Pressed Steel Company, Massillon, Ohio. Sheet-metal-edging machine. No. 1,292,157; Jan. 21; v. 258; p. 570.
- Townsend, Arthur J., Canton, assignor to The National Pressed Steel Company, Massillon, Ohio. Sheet-metal-forming machine. No. 1,292,158; Jan. 21; v. 258; p. 570.
- Townsend, Arthur J., Canton, assignor to The National Pressed Steel Company, Massillon, Ohio. Sheet-splitting machine. No. 1,323,425; Dec. 2; v. 269; p. 38.
- Townsend, Charles F., Onarga, Ill. Stovepipe-fastener. No. 1,305,504; June 3; v. 263; p. 52.
- Townsend, Charles H., Yonkers, N. Y. Valve for fire-extinguishing systems. No. 1,299,065; Apr. 1; v. 261; p. 103.
- Townsend, Charles L. (See Runne, Henry G., assignor.)
- Townsend, Charles L., Norwood, Ohio. Machine for trimming and finishing rubber gaskets and similar articles. No. 1,314,029; Aug. 26; v. 265; p. 495.
- Townsend, Charles R., Birmingham, England. Endless-band grinding and polishing machine. No. 1,308,610; July 1; v. 264; p. 110.
- Townsend, Charles R., and J. G. Skinner, Birmingham, England. Clamping-dog. No. 1,326,807; Dec. 30; v. 269; p. 834.
- Townsend, Clinton P., Washington, D. C., assignor to Hooker Electrochemical Company, New York, N. Y. Electrolytic cell. No. 1,306,237; June 10; v. 263; p. 221.
- Townsend, Edwin O. (See Custer, David W., assignor.)
- Townsend, Ernest F., Los Angeles, Calif. Tractor. No. 1,305,505; June 3; v. 263; p. 52.
- Townsend, Ernest F., Los Angeles, Calif. Tractor. No. 1,305,506; June 3; v. 263; p. 52.
- Townsend, Ernest F., assignor to L. A. Townsend, San Francisco, Cal. Tractor. No. 1,296,022; Mar. 4; v. 260; p. 46.
- Townsend, Ervin D., Jamestown, N. Y. Wiffletree. No. 1,313,430; Aug. 19; v. 265; p. 348.
- Townsend, Frank W. (See Cook, Gee, and Townsend.)
- Townsend, George H., Madison, Wis. Equalizing device. No. 1,314,719; Sept. 2; v. 266; p. 47.
- Townsend, George H., Madison, Wis. Knockdown box. No. 1,317,836; Oct. 7; v. 267; p. 34.
- Townsend, George R. (See De Laval and Townsend.)
- Townsend, Harry E., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sealing-machine. No. 1,291,662; Jan. 14; v. 258; p. 417.
- Townsend, Harry E., assignor to The Anchor Cap & Closure Corporation, Brooklyn, N. Y. Top and side seal closure. No. 1,292,541; Jan. 28; v. 258; p. 682.
- Townsend, Harry E., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sheet-metal-spinning machine. No. 1,320,993; Nov. 4; v. 268; p. 120.
- Townsend, Harry E., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Making rubber rings and the like. No. 1,322,843; Nov. 25; v. 268; p. 633.
- Townsend, Harry M., Minature, Nebr. Engine-starter. No. 1,307,941; June 24; v. 263; p. 599.
- Townsend, Harry P., assignor to The H. P. Townsend Manufacturing Company, Hartford, Conn. Metal-working machine. No. 1,300,051; Apr. 8; v. 261; p. 352.



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- Townsend, Harry P., assignor to The H. P. Townsend Manufacturing Company, Hartford, Conn. Threading attachment. No. 1,317,245; Sept. 30; v. 266; p. 620.
- Townsend, Herbert, Gloucester, N. J., and W. B. Dixon, Nicetown, Pa. Hot-air heater. No. 1,309,000; July 8; v. 264; p. 210.
- Townsend, James L., Manquin, Va. Fertilizer-distributing apparatus. No. 1,313,653; Aug. 19; v. 265; p. 390.
- Townsend, John S. (See Whiting and Townsend.)
- Townsend, Joseph F., Canton, Ohio. Fuel-feeder for pulverized fuel. No. 1,321,262; Nov. 11; v. 268; p. 234.
- Townsend, Katharine G., New York, N. Y. Holder for telephone-receivers. No. 1,304,718; May 27; v. 262; p. 524.
- Townsend, Lucretia A. (See Townsend, Ernest F., assignor.)
- Townsend, William S., Washington, D. C. Nozzle for filling hose. No. 1,319,439; Oct. 21; v. 267; p. 426.
- Townsley, Harle A., Baltimore, Md. Combined level and plumb. No. 1,290,685; Jan. 7; v. 258; p. 163.
- Toy Tinkers. (See Svebilus, Henry M., assignor.)
- Toye, Alfred, Hammersmith, London, England. Cover for ink-wells and other receptacles. No. 1,296,232; Mar. 4; v. 260; p. 95.
- Toy Suido Mokkan Kwaisha. (See Muro Juichiro, assignor.)
- Toyokawa, Junya, Koishikawa, Tokyo, Japan. Nozzle for steam-turbines. No. 1,304,412; May 20; v. 262; p. 427.
- Tozier, Benjamin F. (See Eccles and Tozier.)
- Tozzi, Angelo M., Bayonne, N. J. Dowel for conduit-sections. No. 1,296,342; Mar. 4; v. 260; p. 119.
- Trace, Russell A., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Machine for forming oil-cakes. No. 1,302,246; Apr. 29; v. 261; p. 891.
- Trach, Morris. (See Besner and Trach.)
- Trachte, Dietrich F., St. Louis, assignor to J. Blackburn, Webster Groves, Mo. Cable-hanger. No. 1,308,969; July 8; v. 264; p. 204.
- Track-Back Trailer Company. (See Holland, Charles A., assignor.)
- Tractor-Train Co. (See Moore, Henry N., assignor.)
- Tracy, James J., Cleveland, Ohio. Apparatus for dyeing and the like. No. 1,298,832; Apr. 1; v. 261; p. 50.
- Tracy, James J., Cleveland, Ohio. Adjustable head-lamp bracket. No. 1,304,827; May 27; v. 262; p. 544.
- Tracy, Walter B., Memphis, Tenn. Ticket-delivery apparatus. No. 1,292,925; Jan. 28; v. 258; p. 773.
- Tracz, Peter, Carteret, N. J. Alarm-lock. No. 1,323,729; Dec. 2; v. 269; p. 95.
- Traders Metal Goods Co. (See Benedict, Bernard, assignor.)
- Traffic Sign & Signal Company. (See Strout, Harvey C., assignor.)
- Tragardh, Emil. (See Ternquist and Tragardh.)
- Trager, Harry E., Arcanum, Ohio. Mixer. No. 1,314,770; Sept. 2; v. 266; p. 55.
- Trager, Henry S. (See Trager, Victor E., assignor.)
- Trager, Victor E. (See Longaker, Traker, and Rordam.)
- Trager, Victor E., Burrwood, La., assignor of one-fourth to H. S. Trager, Bay St. Louis, Miss. Drying-rack. No. 1,326,808; Dec. 30; v. 269; p. 834.
- Tragesser, Frank L. (See Bevington, Charles C., assignor.)
- Trabin, Frank A., Detroit, Mich. Engine-manifold. No. 1,307,604; June 24; v. 263; p. 538.
- Trailer Transportation Company. (See Lloyd, Herbert D., assignor.)
- Trall, Alexander, Vancouver, British Columbia, Canada. Floor-polishing mop. No. 1,304,413; May 20; v. 262; p. 427.
- Trakimas, Jacob J., Watertown, N. Y. Cutter-head for rock-drilling machines. No. 1,290,412; Jan. 7; v. 258; p. 96.
- Tramcked, Joseph, et al. (See Franklin, George E., assignor.)
- Trammell, J. V. (See Martin, Alvie R., assignor.)
- Trantow, Wesley. (See Hundhausen and Trantow.)
- Trapp, Benjamin H., Omaha, Nebr. Street-indicator. No. 1,323,931; Dec. 2; v. 269; p. 133.
- Trapp, Edward A., deceased, New York, N. Y.; S. B. Trapp, executrix, Philadelphia, Pa. Lens. No. 1,297,040; Mar. 11; v. 260; p. 313.
- Trapp, John C., Indianapolis, Ind. Valve-grinding tool. No. 1,315,801; Sept. 9; v. 266; p. 251.
- Trapp, Susanna B., executrix. (See Trapp, Edward A.)
- Trask, Leo B., Detroit, Mich. Submarine-protecting device. No. 1,295,818; Feb. 25; v. 260; p. 749.
- Traub, George E., San Diego, Calif. Cutting attachment for punching-machines. No. 1,319,662; Oct. 21; v. 267; p. 469.
- Traub, Martin, Manchester, Mich. Silo-cleat. No. 1,311,360; July 29; v. 264; p. 748.
- Traube, Abraham, Brooklyn, N. Y. Dry-cleaning apparatus. No. 1,291,266; Jan. 14; v. 258; p. 323.
- Traum, David, New York, N. Y. Loom for beadwork. No. 1,313,765; Aug. 19; v. 265; p. 411.
- Traun Rubber Company. (See Jansen, Bernhardt W., assignor.)
- Trautman, August G., Brooklyn, N. Y. Spark-plug. No. 1,323,932; Dec. 2; v. 269; p. 133.
- Trautman, Ray, Minneapolis, Minn. Artificial hand. No. 1,310,589; July 22; v. 264; p. 572.
- Trautman, Ray, Minneapolis, Minn. Artificial limb. No. 1,319,813; Oct. 28; v. 267; p. 520.
- Trautman, Ray, Minneapolis, Minn. Artificial limb. No. 1,326,883; Dec. 30; v. 269; p. 847.
- Trautman, Walter G., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaning apparatus. No. 1,293,250; Feb. 4; v. 259; p. 63.
- Trautner, Jacob. (See Hornik and Trautner.)
- Traveling Shock Gatherer Company. (See Nelson, Landrigan, and Zesbaugh, assignors.)
- Travell, Warren, New York, N. Y. Broom. No. 1,305,631; June 3; v. 263; p. 77.
- Travell, Warren, New York, N. Y. Hoist and transporting apparatus. No. 1,318,467; Oct. 14; v. 267; p. 215.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Protection of parallel feeders. No. 1,297,935; Mar. 18; v. 260; p. 533.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Protection of parallel feeders. No. 1,297,936; Mar. 18; v. 260; p. 533.
- Travers City Refrigerator Co. (See Perkett, Louis F., assignor.)
- Travers, Henry A. (See Moss, Hanker, Travers, and Conrad.)
- Traves, Webster F., Cleveland, Ohio. Tire-healing composition. No. 1,317,111; Sept. 23; v. 266; p. 559.
- Travis, Asher O., Del Ray, Va., assignor to H. M. Conger, Washington, D. C. Machine for manufacturing gelatin sheets or films. No. 1,310,311; July 15; v. 264; p. 489.
- Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Hospital-bed. No. 1,297,043; Mar. 11; v. 260; p. 313.
- Travis, Maud C., Dora, Ala. Twin bottle-holder. No. 1,314,379; Aug. 26; v. 265; p. 563.
- Travis, William, Sheffield, England. Supply of electrical energy to furnaces or other appliances. No. 1,301,887; Apr. 29; v. 261; p. 823.
- Travis, William O. (See Hughes, Travis, and Sturgeon.)
- Traylor, John A., Salt Lake City, Utah. Apparatus for thickening and separating solids from liquids. No. 1,299,872; Apr. 8; v. 261; p. 314.
- Treadgold, George H., assignor of one-half to W. B. Roberson, Port Huron, Mich. Safety device for railways. No. 1,298,833; Apr. 1; v. 261; p. 50.
- Treadwell, Bertha N., W. D. Osborn, and S. E. Newman, Mishawaka, Ind. Nursing-bottle holder. No. 1,322,656; Nov. 25; v. 268; p. 599.
- Treadwell Engineering Company. (See Mikaelson, Erik W., assignor.)
- Treanor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Water-cooled transformer. No. 1,310,097; July 15; v. 264; p. 450.
- Treat, Francis H., Cleveland, Ohio. Explosive-engine. No. 1,290,413; Jan. 7; v. 258; p. 96.
- Trebert, Henry L. F., Rochester, N. Y. Ice-cutting machine. No. 1,307,524; June 24; v. 263; p. 523.
- Trebert, Henry L. F., Rochester, N. Y. Ice-cutting tool. No. 1,307,525; June 24; v. 263; p. 524.
- Tredgars Limited. (See Morris, John M., assignor.)
- Tredup, Herman E., Sebewaing, Mich. Traction-wheel. No. 1,292,974; Jan. 28; v. 258; p. 785.
- Tredup, Herman E., Sebewaing, Mich. Auto-wheel. No. 1,297,275; Mar. 11; v. 260; p. 363.
- Tredway, Charles C., Lordsburg, N. Mex. Fly-screen. No. 1,291,267; Jan. 14; v. 258; p. 323.
- Trefz, Julius J., assignor to The Anglo-American Mill Company, Owensboro, Ky. Bolting-reel. No. 1,302,456; Apr. 29; v. 261; p. 932.
- Trego, Abner V., Kansas City, Mo. Collapsible box or rack. No. 1,317,837; Oct. 7; v. 267; p. 34.
- Tregoning, Joseph H., Greeley, Colo. Direction-indicator. No. 1,309,265; July 8; v. 264; p. 260.
- Tregoning, Joseph H., Greeley, Colo. Leaf-spring-lubricating tool. No. 1,313,565; Aug. 19; v. 265; p. 374.
- Tregoning, William C., Cleveland, Ohio, assignor to Benjamin Electrical Manufacturing Company, Chicago, Ill. Electrical connector. No. 1,319,915; Oct. 28; v. 267; p. 539.
- Treiber, Theodore R., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Device for resurfacing cue-tips. No. 1,297,041; Mar. 11; v. 260; p. 313.
- Treiber, Theodore R., and Frank P. Grode, Kansas City, Mo.; said Treiber assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Billiard and pool table. No. 1,317,768; Oct. 7; v. 267; p. 21.
- Treichel, Herbert. (See Halverson, Wilcock, and Treichel.)
- Treichel, Thomas J., San Francisco, Cal. Automobile-curtain window. No. 1,297,042; Mar. 11; v. 260; p. 313.
- Trekell, Cynthia M., Randlett, Okla. Water-filter. No. 1,302,731; May 6; v. 262; p. 47.
- Treleaven, Thomas C. P., Chicago, Ill. Game apparatus. No. 1,290,414; Jan. 7; v. 258; p. 96.
- Tremain, Charles. (See Becker, Robert A., assignor.)
- Tremain, Emery E., Stockton, Calif. Combination-truck. No. 1,319,312; Oct. 21; v. 267; p. 402.
- Tremain, Malvina F., Westfield, Pa. Attachment for stoves. No. 1,307,163; June 17; v. 263; p. 424.



- Tremaine, Henry B., Westfield, N. J., assignor to The Aeolian Company. Automatic musical instrument. No. 1,300,519; Apr. 15; v. 261; p. 480.
- Tremblay, George, and J. N. Dufour, Chicoutimi, Quebec, Canada. Dust-separator. No. 1,304,123; May 20; v. 262; p. 371.
- Tremblay, Louis N., Paris, France. Cutting-off machine for trunk timber. No. 1,301,337; Apr. 22; v. 261; p. 688.
- Trembley, David, assignor of one-third to G. Brown, Chicago, Ill., and one-third to J. L. Brooks, Dubuque, Iowa. Automobile-lock. No. 1,325,178; Dec. 16; v. 262; p. 475.
- Tremont Products Company. (See Smith, Raymond D., assignor.)
- Trenerry, Elizabeth A., Melbourne, Victoria, Australia. Safety hook and eye. No. 1,323,558; Dec. 2; v. 269; p. 63.
- Trenk, Henry F. (See Stilson, Herbert A., assignor.)
- Trent, Harold E., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inspection device. No. 1,305,032; May 27; v. 262; p. 582.
- Trent, Harold E., Harpenden, England, assignor to Westinghouse Electric and Manufacturing Company. Induction-motor winding. No. 1,316,004; Sept. 16; v. 266; p. 304.
- Trent, Lamartine C., Los Angeles, Calif. Apparatus for treating solid-bearing solutions. No. 1,307,329; June 17; v. 263; p. 454.
- Trenton Potteries Company, The. (See Hinsdale, Winfield E., assignor.)
- Treo Company, Inc. (See Schloss, Meyer W., assignor.)
- Trescott, John B. (See Johns and Trescott.)
- Tresenberg, Paul, Brooklyn, N. Y. Hair-curler. No. 1,326,893; Dec. 30; v. 269; p. 849.
- Tresselt, Fritz, Passaic Park, N. J., assignor to V. V. Fittings Company, Philadelphia, Pa. Electrical fitting. No. 1,291,268; Jan. 14; v. 258; p. 323.
- Tretch, William J., assignor to Riehle Bros. Testing Machine Co., Philadelphia, Pa. Extensometer. No. 1,300,790; Apr. 15; v. 261; p. 537.
- Trettin, Carl, assignor to Siemens-Schuckert Werke G. m. b. H., Berlin, Germany. Rotary converter. No. 1,309,001; July 8; v. 264; p. 211.
- Trettin, Carl, assignor to Siemens-Schuckert Werke, G. m. b. H., Berlin, Germany. Electric-motor system. No. 1,310,458; July 22; v. 264; p. 547.
- Treuthardt, Arnold C., Georgetown, Tex. Work-clamp. No. 1,323,127; Nov. 25; v. 268; p. 687.
- Trevillion, Homer C., Prescott, Ark. Automatic clutch for veneer-cutting machines. No. 1,298,604; Mar. 25; v. 260; p. 701.
- Trevithick, Frederick H., Cairo, Egypt. Locomotive and like boiler. No. 1,296,233; Mar. 4; v. 260; p. 95.
- Trew, Thomas J., assignor to King Automatic Trolling Co., Seattle, Wash. Automatic reeling device for trolling-lines. No. 1,324,703; Dec. 9; v. 269; p. 325.
- Tri-City Steel Company. (See Hyle, Jacob A., assignor.)
- Tri-City Steel Company. (See Hyle and Herman, assignors.)
- Tribble, Robert A., Rolling Fork, Miss. Vending apparatus. No. 1,305,033; May 27; v. 262; p. 582.
- Tribe, David P., and E. F. Kohn, Los Angeles, Calif. Wind-shield. No. 1,318,304; Oct. 7; v. 267; p. 123.
- Tridico, Salvatore, Brooklyn, N. Y. Air-motor. No. 1,313,842; Aug. 19; v. 265; p. 425.
- Trifer, James M., New York, N. Y. Cleaner for offset-winding drums of printing-presses. No. 1,306,646; June 10; v. 263; p. 297.
- Trigg, Charles W. (See Hamor and Trigg.)
- Trigg, Edward W. (See Mason and Trigg.)
- Triggs, George A., Clarion, Iowa. Automatic valve. No. 1,295,638; Feb. 25; v. 259; p. 708.
- Triggs, James M., and W. D. Redrup, assignors to The Majestic Company, Huntington, Ind. Furnace. No. 1,310,811; July 22; v. 264; p. 613.
- Triggs, James M., and W. D. Redrup, assignors to The Majestic Company, Huntington, Ind. Duplex-register boot. No. 1,310,812; July 22; v. 264; p. 614.
- Trimble, Edward, near St. Joseph, Mo. Marginal check-cutter. No. 1,305,417; June 3; v. 263; p. 35.
- Trimble, John H., and C. F. Fink, assignors to H. E. Karr, Baltimore, Md. Calculating-machine. No. 1,326,428; Dec. 30; v. 269; p. 761.
- Triner, James M., Chicago, Ill. Scale. No. 1,290,415; Jan. 7; v. 258; p. 96.
- Trinkle, Christopher C., Romney, Ind. Compound for tempering steel. No. 1,307,465; June 24; v. 263; p. 513.
- Trinks, Edith M., Pittsburgh, Pa. Galter-drying apparatus. No. 1,298,423; Mar. 25; v. 260; p. 662.
- Triplett, William F., Grand Junction, Colo. Boiler-tube connection. No. 1,304,414; May 20; v. 262; p. 427.
- Triplex Goggle Mask & Lens Co. Ltd., The. (See Newbold, Harry, assignor.)
- Tripolitis, Theodor, Cleveland, Ohio. Butter-dispensing machine. No. 1,303,131; May 6; v. 262; p. 125.
- Tripp, Burton H., Los Angeles, Calif., and H. V. Ramsay, deceased, Gloucester, N. J.; J. M. Kelley and P. A. Stewart, administrators; said Tripp and said administrators, assignors to The Economy Engineering Co., Camden, N. J. Liquid-fuel furnace or forge. No. 1,305,034; May 27; v. 262; p. 583.
- Tripp, Charles A., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Corn-crisp apparatus. No. 1,294,971; Feb. 18; v. 259; p. 531.
- Tripp, Charles A., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Machine for roasting peanuts and the like. No. 1,295,939; Mar. 4; v. 260; p. 27.
- Tripp, Charles A., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Means for supplying material to and removing it from roasters, poppers, and the like. No. 1,298,265; Mar. 25; v. 260; p. 629.
- Tripp, Charles A., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Gasolene-generator. No. 1,300,304; Apr. 15; v. 261; p. 434.
- Tripp, Charles A., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Coin-controlled switch. No. 1,303,419; May 13; v. 262; p. 205.
- Tripp, Clarence A., Mojave, Calif. Demountable collapsible rim. No. 1,300,052; Apr. 8; v. 261; p. 353.
- Tripp, David A., Barborton, Ohio. Cable-support. No. 1,296,571; Mar. 4; v. 260; p. 169.
- Tripp, Hal E., Chattanooga, Tenn. Baking-pan. No. 1,308,821; July 8; v. 264; p. 177.
- Tripp, John C., assignor of one-half to D. M. Rimmer, Sweeney, Tex. Attachment for automobile-headlights. No. 1,323,616; Dec. 2; v. 269; p. 74.
- Tripp, John S. (See Remer and Tripp.)
- Tripplehorn, David R., Wichita, Kans. Jarring-tool for drilling wells. No. 1,301,764; Apr. 22; v. 261; p. 769.
- Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. System of motor control. No. 1,310,040; July 15; v. 264; p. 440.
- Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Circuit-interrupter. No. 1,323,798; Dec. 2; v. 269; p. 108.
- Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Circuit-interrupter. No. 1,323,799; Dec. 2; v. 269; p. 108.
- Tritsch, Mike, Plattsmouth, Nebr. Spectacle-rim-stretching device. No. 1,300,520; Apr. 15; v. 261; p. 480.
- Tritton, William A., Lincoln, England. Endless moving chain track. No. 1,294,200; Feb. 11; v. 259; p. 317.
- Tritton, William A., Lincoln, England. Armor-plating. No. 1,312,371; Aug. 5; v. 265; p. 96.
- Tritton, William A., Lincoln, England. Endless moving chain track. No. 1,318,188; Oct. 7; v. 267; p. 101.
- Tritton, William A., Lincoln, England. Transport-vehicle propelled by endless moving chain tracks. No. 1,318,189; Oct. 7; v. 267; p. 101.
- Triumph Trap Co. (See Greene and Adams, assignors.)
- Triumph Trap Co. (See Greene, Holdridge G., assignor.)
- Troeger, Robert J., Los Angeles, Cal. Saddle for pneumatic hammers. No. 1,293,251; Feb. 4; v. 259; p. 64.
- Troegner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Salvage-trimmer. No. 1,319,366; Oct. 21; v. 267; p. 412.
- Troiano, Antonio, Washington, D. C. Rubber heel for shoes. No. 1,291,269; Jan. 14; v. 258; p. 323.
- Trojan Powder Company. (See Skoglund, Jean V., assignor.)
- Trojan Powder Company. (See Snelling, Walter O., assignor.)
- Trolley, Isaac, Poughkeepsie, N. Y., assignor to Moline Plow Company. Tongue-truck. No. 1,305,843; June 3; v. 263; p. 116.
- Trolley, Isaac, Poughkeepsie, N. Y., assignor to Moline Plow Company. Mowing-machine. No. 1,318,418; Oct. 14; v. 267; p. 206.
- Trommer, Charles F., assignor to A. Wittnauer Co., New York, N. Y. Wrist-watch. No. 1,313,843; Aug. 19; v. 265; p. 426.
- Trone, Maurice N., Hanover, Pa. Shift mechanism for type-writers. No. 1,296,717; Mar. 11; v. 260; p. 238.
- Troop, George W., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Ruckle. No. 1,323,933; Dec. 2; v. 269; p. 134.
- Troppman, Charles J., assignor to F. A. Hardy & Company, Chicago, Ill. Lens-grinding machinery. No. 1,292,926; Jan. 28; v. 258; p. 774.
- Troppman, Charles J., assignor to F. A. Hardy & Company, Chicago, Ill. Aviator's goggles. No. 1,295,391; Feb. 25; v. 259; p. 651.
- Trosper, George J., Mesa, Ariz. Solar heater. No. 1,325,596; Dec. 23; v. 269; p. 569.
- Trost, William B., and F. Klein, assignors to Waterloo Playford Silo Company, Waterloo, Iowa. Sectional silo-ladder. No. 1,308,881; July 8; v. 264; p. 188.
- Trostel, Albert O. (See Erlinger, George, assignor.)
- Trostler, William. (See Marbach, Frank G., assignor.)
- Trotman, Walter G., West Springfield, Mass., assignor to C. H. Smith Company, Springfield, Mass. Seam. No. 1,311,927; Aug. 5; v. 265; p. 14.
- Trotter, Joseph W., Birmingham, Ala. Rail-joint. No. 1,299,393; Apr. 1; v. 261; p. 176.
- Troubitschaninoff, Dmitry, New York, N. Y. Safety attachment for submarine mines. No. 1,292,542; Jan. 23; v. 258; p. 682.
- Troubitschaninoff, Dmitry, New York, N. Y. Submarine mine. No. 1,302,732; May 6; v. 262; p. 47.
- Troup, Alexander M., assignor of one-half to J. U. Gunter, Sanford, N. C. Photographic-printing apparatus. No. 1,323,559; Dec. 2; v. 269; p. 64.
- Trout, Thaddeus. (See Klay, Andrew, assignor.)



*Alphabetical list of patentees—Continued.*

- Trout, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Feed-roll mechanism. No. 1,309,824; July 15; v. 264; p. 401.
- Trout, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Air-cushion for steam-niggers. No. 1,309,825; July 15; v. 264; p. 401.
- Trouthmann, Max. (See Hall, Charles H., assignor.)
- Trowbridge, Ernest C., Gloucester, Mass. Medicine-dispenser. No. 1,313,566; Aug. 19; v. 265; p. 374.
- Trowbridge, John H. (See Worley, Trowbridge, Wurtenberg, and Lee.)
- Troxel, Charles E., assignor to Rome Wire Company, Rome, N. Y. Braiding-machine. No. 1,295,639; Feb. 25; v. 259; p. 708.
- Troxel, Harvey H., Wooster, assignor of one-half to O. C. Billman, Cleveland, Ohio. Propeller-pencil. No. 1,310,260; July 15; v. 264; p. 480.
- Troy Foundry and Machine Co. (See Tefft, Floyd G., assignor.)
- Troy, John H., New York, N. Y. Comb. No. 1,302,247; Apr. 29; v. 261; p. 891.
- Troy Laundry Machinery Co. (See Bartholomew, William, assignor.)
- Troy Laundry Machinery Company. (See Broderick, James F., assignor.)
- Troy Laundry Machinery Company. (See Hoting, Hans C., assignor.)
- Troy Wagon works Company, The. (See De Haeseleer, Henry, assignor.)
- Troy Wagon Works Company, The. (See Geiger, Tracey E., assignor.)
- Troy Wagon Works Company, The. (See Hudson, Warren R., assignor.)
- Troy, William A., Archbald, Pa. Automatic register. No. 1,297,752; Mar. 18; v. 260; p. 495.
- Troyer, Nelson, assignor to Seattle Astoria Iron Works, Seattle, Wash. Compound applying and drying machine. No. 1,308,208; July 1; v. 264; p. 37.
- Troyer, Nelson, assignor to Seattle-Astoria Iron Works, Seattle, Wash. Means for securing retort-doors. No. 1,321,341; Nov. 11; v. 268; p. 249.
- Trpatec, Joe, Morristown, Pa. Ship's furniture. No. 1,324,767; Dec. 9; v. 269; p. 337.
- Truax, Florence B., Lincoln, Nebr. Portable irrigating-stand. No. 1,290,809; Jan. 7; v. 258; p. 191.
- Truck Tractor and Manufacturing Company. (See Jacobs and Cramer, assignors.)
- Trudeau, John F., assignor to Electro-Dynamic Company, Bayonne, N. J. Waste-packed sleeve-bearing. No. 1,313,507; Aug. 19; v. 265; p. 362.
- Trudeau, Maximilian O., Stamford, Conn. Internal-combustion engine. No. 1,307,221; June 17; v. 263; p. 434.
- True, Charles H., Hammond, Ind., assignor to Locomotive Superheater Company, New York, N. Y. Die for making radiator units. No. 1,315,614; Sept. 9; v. 266; p. 217.
- True, James B., Saugus Center, Mass. Shaft-bearing. No. 1,303,616; May 13; v. 262; p. 241.
- Trueb, Rudolph O., Murray Hill Park, N. J. Frame for the manufacture of embroidery. No. 1,299,873; Apr. 8; v. 261; p. 315.
- Trueb, Rudolph O., Murray Hill Park, N. J. Manufacture of ornamental beaded fabrics. No. 1,326,311; Dec. 30; v. 269; p. 739.
- Trullench, Antonio N., Lucena, Tayabas, Philippine Islands. Draftsman's case. No. 1,314,915; Sept. 2; v. 266; p. 81.
- Trumble, Milton J., Los Angeles, Calif., assignor to Shell Company of California. Method and apparatus for dehydrating emulsions. No. 1,304,124; May 20; v. 262; p. 371.
- Trumble, Milton J., Alhambra, Calif., assignor to Shell Company of California. Treating hydrocarbon oils. No. 1,304,125; May 20; v. 262; p. 372.
- Trumble, Milton J., Alhambra, Calif. Steam-boiler. No. 1,322,374; Nov. 18; v. 268; p. 494.
- Trumbly, James G., Chicago, Ill. Automatic top. No. 1,308,209; July 1; v. 264; p. 37.
- Trumbull Electric Manufacturing Company, The. (See Knudsen, Knud, assignor.)
- Trumbull Electric Manufacturing Company, The. (See Lundin, Ragnar O. W., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Sutherland, Alexander K., assignor.)
- Trumbull Electric Mfg. Co. (See Broadwell, Harry M., assignor.)
- Trumbull Electric Mfg. Co., The. (See Ratcliffe, Roscoe, assignor.)
- Trumbull Electric Mfg. Co., The. (See Regan, Joseph C., assignor.)
- Trumbull, Frank S. (See Stephenson, Thomas B., assignor.)
- Trump, Edward N. (See Brown, William C., assignor.)
- Trump, Elno H., Akron, Ohio. Making pneumatic-tire casings. No. 1,308,379; July 1; v. 264; p. 68.
- Trumpour, Frederick J., Cleveland, Ohio, assignor of one-third to L. S. Munson, Long Beach, Cal., and one-third to G. S. Yeomans, Orange, N. J. Tunneling-machine. No. 1,292,159; Jan. 21; v. 258; p. 571.
- Trundle, George T., Jr., assignor to The American Multi-graph Company, Cleveland, Ohio. Column-rule. No. 1,306,037; June 10; v. 263; p. 183.
- Trupke, Julius. (See Goetter and Trupke.)
- Truscon Steel Company. (See Kahn, Albert, assignor.)
- Truscon Steel Company. (See Kahn, Julius, assignor.)
- Truscott, Howard W., Jennings Lodge, Oreg. Fluid-pressure pump. No. 1,316,468; Sept. 16; v. 266; p. 390.
- Trushon, Antoni, Flint, Mich. Lock for pockets. No. 1,291,270; Jan. 14; v. 258; p. 323.
- Trussed Concrete Steel Company. (See Benson and Curtis, assignors.)
- Trussed Concrete Steel Company. (See Kahn, Julius, assignor.)
- Trussed Concrete Steel Company of Canada. (See Hanson, Lewis, assignor.)
- Trussed Concrete Steel Company of Canada. (See Heber, James E., assignor.)
- Trust, Henry. (See Trust, Josephine and H.)
- Trust, Josephine and H., Brooklyn, N. Y. Mechanical movement. No. 1,290,686; Jan. 7; v. 258; p. 163.
- Tryon, George B., Derby, Conn., Automatic-cut-off gas-burner. No. 1,304,221; May 20; v. 262; p. 390.
- Tyron, George B., Derby, Conn. Automatic-cut-off gas-burner. No. 1,326,550; Dec. 30; v. 269; p. 785.
- Tschannan, Paul, Oerlikon, near Zurich, Switzerland. Hat-holder. No. 1,290,810; Jan. 7; v. 258; p. 192.
- Tschanz, Otto, Berne, Switzerland. Driving mechanism for railway-vehicles with electric motors rigidly mounted on spring-supported frames. No. 1,311,928; Aug. 5; v. 265; p. 14.
- Tscherning, Henry, assignor to Arcade Manufacturing Company, Freeport, Ill. Molding apparatus. No. 1,304,922; May 27; v. 262; p. 561.
- Tschirner, Frederick, Newark, N. J., assignor to R. G. Wagner, New York, N. Y. Rotary kiln. No. 1,292,927; Jan. 28; v. 258; p. 774.
- Tschirner, Frederick, Newark, N. J. Rotary Kiln. No. 1,292,928; Jan. 28; v. 258; p. 774.
- Tschirner, Frederick, Newark, N. J., assignor to R. G. Wagner, New York, N. Y. Treating glauconite and similar materials. No. 1,292,929; Jan. 28; v. 258; p. 774.
- Tschudin, Trougott, Brooklyn, N. Y. Invisible support for brackets and the like. No. 1,297,609; Mar. 18; v. 260; p. 463.
- Tschudin, Trougott, Brooklyn, N. Y. Invisible support for brackets and the like. No. 1,297,610; Mar. 18; v. 260; p. 463.
- Tsuchiya, Fujimaru, Hirano, Kobe, Japan. Apparatus for comparing rotation of shafts. No. 1,292,366; Jan. 21; v. 258; p. 619.
- Tsuchiya, Fujimaru, Hirano, Kobe, and K. Snyehiro, Hongo, Tokyo, Japan. Apparatus for comparing rotation of shafts. No. 1,316,820; Sept. 23; v. 266; p. 505.
- Tubbs, Isaac, Piggott, Ark. Machine for exterminating boll-weevils. No. 1,303,132; May 6; v. 262; p. 125.
- Tubbs, Oscar J., Winslow, Me. Device for use in cutting beans. No. 1,315,056; Sept. 2; v. 266; p. 107.
- Tubular Woven Fabric Company. (See Handley, William, assignor.)
- Tucciarone, Gerard F., Rochester, N. Y. Welt and flap marker. No. 1,326,226; Dec. 30; v. 269; p. 724.
- Tuck, William W., Richmond Hill, N. Y. Vegetable-cutting apparatus. No. 1,303,617; May 13; v. 262; p. 241.
- Tuck, William W., Richmond Hill, assignor to Depco Cuber Company, Inc., New York, N. Y. Vegetable-cutting apparatus. No. 1,322,738; Nov. 25; v. 268; p. 614.
- Tucker, Andrew P., assignor of one-half to M. Zimmerman, Cincinnati, Ohio. Machine for making paper forms. No. 1,297,971; Mar. 18; v. 260; p. 541.
- Tucker, Benjamin W., South Orange, N. J., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Type-writing machine. No. 1,293,252; Feb. 4; v. 259; p. 64.
- Tucker, Benjamin W., South Orange, N. J., assignor to Coats Machine Tool Company, Inc., New York, N. Y. Duplex sawing apparatus. No. 1,303,420; May 13; v. 262; p. 205.
- Tucker, Benjamin W., South Orange, N. J., assignor to Corona Typewriter Company, Inc. Type-writing machine. No. 1,311,929; Aug. 5; v. 265; p. 15.
- Tucker, Charles E., Roosevelt, Okla. Heading attachment for corn-harvesters. No. 1,294,323; Feb. 11; v. 259; p. 346.
- Tucker, Fred. (See Stevens, Augustus R., assignor.)
- Tucker, George, Brockton, Mass. Insulating and waterproofing composition for electrical appliances. No. 1,311,301; July 29; v. 264; p. 736.
- Tucker, Joseph P., Seattle, Wash. Garment-fastener. No. 1,308,611; July 1; v. 264; p. 110.
- Tucker, Oliver P. (See Black, John L., assignor.)
- Tucker, Philander K., assignor of one-half to M. Hengel, Sioux Falls, S. D. Inner-tube protector. No. 1,294,201; Feb. 11; v. 259; p. 317.
- Tucker, Purney A. (See Skinner and Tucker.)
- Tucker, Ralph H., Los Angeles, Calif. Air-lift pump. No. 1,300,053; Apr. 8; v. 261; p. 353.
- Tucker, Robert C., Parkersburg, W. Va. Painter's pail and brush-container. No. 1,304,415; May 20; v. 262; p. 428.
- Tucker, Verna I. (See Kennedy, Hugh A., assignor.)



- Tucker, William B., Healdsburg, Calif. Amalgamating-machine. No. 1,300,054; Apr. 8; v. 261; p. 353.
- Tuell, Pickney V., Wood, S. D. Fence-post. No. 1,290,416; Jan. 7; v. 258; p. 97.
- Tufts, James K., Boston, Mass. Tool-holder. No. 1,306,039; June 10; v. 263; p. 183.
- Tulloch, William R., Washington, D. C. Method of and apparatus for planting grain. No. 1,311,427; July 29; v. 264; p. 760.
- Tully, Francis W., Brookline, Mass. Culinary utensil. No. 1,301,197; Apr. 22; v. 261; p. 659.
- Tully, Francis W., Brookline, Mass. Garment. No. 1,308,457; July 1; v. 264; p. 82.
- Tunks, Nelson H., Lima, Ohio. Signaling device. No. 1,305,844; June 3; v. 263; p. 116.
- Tunstall, William B., Somerville, Mass., assignor to G. P. Brand, New York, N. Y. Strip-registering mechanism. No. 1,325,814; Dec. 23; v. 269; p. 610.
- Tuomi, Uno E., St. Louis, Mo. Mechanism for operating window-sash. No. 1,306,868; June 17; v. 263; p. 370.
- Tupper, Russell E., Cochrane, Mass. Curtain-light. No. 1,312,087; Aug. 5; v. 265; p. 44.
- Turbayne, William A., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical regulation. No. 1,301,622; Apr. 22; v. 261; p. 740.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamo-electric machine. No. 1,311,542; July 29; v. 264; p. 782.
- Turbayne, William A., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Automatic regulator. No. 1,314,166; Aug. 26; v. 265; p. 521.
- Turbayne, William A., assignor to U. S. Light and Heating Corporation, Niagara Falls, N. Y. Starting and lighting dynamo-electric machine. No. 1,318,938; Oct. 14; v. 267; p. 305.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric regulator. No. 1,320,994; Nov. 4; v. 268; p. 120.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Lamp-voltage regulator. No. 1,320,995; Nov. 4; v. 268; p. 120.
- Turbayne, William A., Buffalo, assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Stop-charge electric regulator. No. 1,324,573; Dec. 9; v. 269; p. 300.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamo-electric machine. No. 1,324,989; Dec. 16; v. 269; p. 439.
- Turbayne, William A., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Automatic electric regulator. No. 1,325,597; Dec. 23; v. 269; p. 570.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical regulation. No. 1,325,598; Dec. 23; v. 269; p. 570.
- Turbayne, William A., assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Converter. No. 1,326,227; Dec. 30; v. 269; p. 724.
- Turbo Motor Company. (See McElrath, William W., Jr., assignor.)
- Turbo Rotary Engine Co. (See Carroll, John D., assignor.)
- Turck, Frederick M., and B. C. White, New York, N. Y. Sheet-controlling device for printing-presses. No. 1,306,086; June 10; v. 263; p. 191.
- Turck, Frederick M., and B. C. White, New York, N. Y. Sheet-feeding device for printing-presses. No. 1,306,087; June 10; v. 263; p. 192.
- Turck, Frederick M., and B. C. White, New York, N. Y. Sheet-delivering device for printing-presses. No. 1,306,088; June 10; v. 263; p. 192.
- Turck, Henry J., et al., trustees. (See Bobroff, Bornett L., assignor.)
- Turck, Joseph A. V., Chicago, Ill., assignor to Felt & Tarrant Manufacturing Company. Calculating-machine. No. 1,316,523; Sept. 16; v. 266; p. 401.
- Turgeon, Edward, Thompsonville, Conn. Safety appliance for elevators. No. 1,314,228; Aug. 26; v. 265; p. 533.
- Turkeltaub, Abraham M., New York, N. Y. Combination-button. No. 1,306,451; June 10; v. 263; p. 261.
- Turnbull Cone Machine Co. (See Turnbull, Werd W., assignor.)
- Turnbull, Frederick, Newcastle-upon-Tyne, England. Motor-vehicle. No. 1,317,465; Sept. 30; v. 266; p. 662.
- Turnbull, Lawrence W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Brush-holding device. No. 1,312,769; Aug. 12; v. 265; p. 204.
- Turnbull, Wallace R., Peterborough, England. Float for hydroaeroplanes and the like. No. 1,317,741; Oct. 7; v. 267; p. 15.
- Turnbull, Werd W., Asheville, N. C. Machine for making ice-cream cones. No. 1,302,733; May 6; v. 262; p. 48.
- Turnbull, Werd W., assignor to Turnbull Cone Machine Co., Asheville, N. C. Machine for making ice-cream cones. No. 1,299,635; Apr. 8; v. 261; p. 260.
- Turnbull, William. (See Norrells and Turner.)
- Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Cal. Creeper-tractor. No. 1,296,572; Mar. 4; v. 260; p. 169.
- Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Cal. Traction-engine. No. 1,304,416; May 20; v. 262; p. 428.
- Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Cal. One-piece tractor frame and transmission unit. No. 1,309,972; July 15; v. 264; p. 429.
- Turnbull, William, assignor to The Holt Manufacturing Company, Stockton, Cal. Antivibrating means for self-laying tracks. No. 1,314,621; Sept. 2; v. 266; p. 28.
- Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Cal. Draft-rigging. No. 1,326,551; Dec. 30; v. 269; p. 785.
- Turner, Albert. (See Norton and Turner.)
- Turner, Anthony V. (See Turner, Nicholas L. and A. V.)
- Turner, Archibald and H. J., Leicester, England. Producing endless elastic bands. No. 1,312,770; Aug. 12; v. 265; p. 204.
- Turner, Bertram J., New Southgate, London, England. Magneto-electric machine. No. 1,301,524; Apr. 22; v. 261; p. 722.
- Turner, Carl D., Indianapolis, Ind. Electric branding device. No. 1,323,504; Dec. 2; v. 269; p. 53.
- Turner, Claude A. P., Minneapolis, Minn. Fireproof flooring. No. 1,320,186; Oct. 23; v. 267; p. 589.
- Turner, Edgar A. (See Arey, Fred C., assignor.)
- Turner, Edgar A., assignor to North-Western Expanded Metal Co., Chicago, Ill. Piston for internal-combustion engines. No. 1,312,879; Aug. 12; v. 265; p. 226.
- Turner, Edgar A., assignor to North-Western Expanded Metal Co., Chicago, Ill. Piston for internal-combustion engines. No. 1,312,880; Aug. 12; v. 265; p. 226.
- Turner, Frank B., assignor of one-half to L. W. Duval, Ocala, Fla. Resilient wheel-tire and adjustable rim. No. 1,307,164; June 17; v. 263; p. 424.
- Turner, Frank W., Kansas City, Mo., M. Leffler, Kansas City, Kans., and C. Douglas, Kansas City, Mo. Lamp-socket. No. 1,293,989; Feb. 11; v. 259; p. 268.
- Turner, Horace W., Wilmington, Del. Air-cooling system for internal-combustion motors. No. 1,296,443; Mar. 4; v. 260; p. 140.
- Turner, Hugh J. (See Turner, Archibald and H. J.)
- Turner, John C., Dayton, Ohio. Toy. No. 1,318,708; Oct. 14; v. 267; p. 261.
- Turner, John C., assignor to The John C. Turner Novelty Co., Dayton, Ohio. Gravity toy. No. 1,290,417; Jan. 7; v. 258; p. 97.
- Turner, John C., assignor to The John C. Turner Novelty Co., Dayton, Ohio. Semi-automatic gravity toy. No. 1,290,418; Jan. 7; v. 258; p. 97.
- Turner, John C., assignor to The John C. Turner Novelty Company, Dayton, Ohio. Continuous-trip gravity-train. No. 1,290,687; Jan. 7; v. 258; p. 163.
- Turner, John C., assignor to The John C. Turner Novelty Co., Dayton, Ohio. Drawbridge. No. 1,297,044; Mar. 11; v. 260; p. 313.
- Turner, John C., assignor to The John C. Turner Novelty Co., Dayton, Ohio. Merry-go-round. No. 1,300,674; Apr. 15; v. 261; p. 511.
- Turner, John L., et al. (See Studebaker, Charley M., assignor.)
- Turner, John S., Dallas, Tex. Storage-rack. No. 1,325,966; Dec. 23; v. 269; p. 638.
- Turner, John S., Dallas, Tex. Automobile bed-rack. No. 1,325,967; Dec. 23; v. 269; p. 638.
- Turner, Mary E., Minneapolis, Minn. Child's slide. No. 1,311,580; July 29; v. 264; p. 789.
- Turner, Maurice C., New York, N. Y. Telephone-booth. No. 1,294,202; Feb. 11; v. 259; p. 318.
- Turner, Nicholas L. and A. V., Baltimore, Md. Air and gas mixer for gas-burners. No. 1,305,632; June 3; v. 263; p. 78.
- Turner, Paul, Detroit, Mich. Detachable steering-wheel. No. 1,295,640; Feb. 25; v. 259; p. 708.
- Turner, Ralph C., Bellingham, Wash. Spar-lathe. No. 1,295,392; Feb. 25; v. 259; p. 651.
- Turner, Richard G., Malden, Mass. Woven fabric. No. 1,320,996; Nov. 4; v. 268; p. 121.
- Turner, Richard G., Malden, Mass. Loom. No. 1,320,997; Nov. 4; v. 268; p. 121.
- Turner, Robert. (See Corley and Turner.)
- Turner, Roderick D., and W. G. Dodelph, Mount Vernon, Wash. Camp-stove. No. 1,311,302; July 29; v. 264; p. 736.
- Turner, Roscoe S. E., assignor to M. H. Starr, Philadelphia, Pa. Tool-operating machine. No. 1,324,136; Dec. 9; v. 269; p. 216.
- Turner, Samuel J., Chicago, assignor of one-half to O. Rabe, Wilmette, Ill. Strap-tightener. No. 1,319,126; Oct. 21; v. 267; p. 366.
- Turner, Samuel J., Chicago, assignor to O. Rabe, Wilmette, Ill. Strap-faster-operating appliance. No. 1,319,127; Oct. 21; v. 267; p. 266.
- Turner & Seymour Manufacturing Co., The. (See Hills, Sidney C., assignor.)
- Turner Tanning Machinery Company, The. (See Lawrence, George A., assignor.)



*Alphabetical list of patentees—Continued.*

- Turner, Thomas, assignor to Hardsocg Wonder Drill Company, Ottumwa, Iowa. Lubricating arrangement for pneumatic rock-drills. No. 1,324,327; Dec. 9; v. 269; p. 252.
- Turner, Thomas P., Durand, Mich. Automobile-tire remover. No. 1,318,032; Oct. 7; v. 267; p. 71.
- Turner, Walter E., Piqua, Ohio. Automatic liquid-weigher. No. 1,321,862; Nov. 18; v. 268; p. 399.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Booster-valve device for fluid-pressure brakes. No. 1,294,972; Feb. 18; v. 259; p. 531.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-application-retarding valve. No. 1,294,973; Feb. 18; v. 259; p. 531.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,294,974; Feb. 18; v. 259; p. 531.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Device for electropneumatic brakes. No. 1,294,975; Feb. 18; v. 259; p. 532.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic slack-adjuster. No. 1,294,976; Feb. 18; v. 259; p. 532.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. No. 1,294,977; Feb. 18; v. 259; p. 532.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,294,978; Feb. 18; v. 259; p. 533.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-control device. No. 1,294,979; Feb. 18; v. 259; p. 533.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Quick-release-valve device. No. 1,294,980; Feb. 18; v. 259; p. 533.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pneumatic signal system. No. 1,294,981; Feb. 18; v. 259; p. 533.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive-brake device. No. 1,294,982; Feb. 18; v. 259; p. 533.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,297,422; Mar. 18; v. 260; p. 423.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Triple-valve test-rack. No. 1,297,508; Mar. 18; v. 260; p. 441.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic cut-out valve. No. 1,297,509; Mar. 18; v. 260; p. 441.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Cut-off-valve device. No. 1,297,510; Mar. 18; v. 260; p. 442.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,297,511; Mar. 18; v. 260; p. 442.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,297,512; Mar. 18; v. 260; p. 442.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Load brake apparatus. No. 1,297,513; Mar. 18; v. 260; p. 442.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electrofluid-pressure brake. No. 1,297,514; Mar. 18; v. 260; p. 443.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive-brake. No. 1,297,515; Mar. 18; v. 260; p. 443.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Rail-sand-ing device. No. 1,297,516; Mar. 18; v. 260; p. 443.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake equipment. No. 1,297,517; Mar. 18; v. 260; p. 443.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,297,518; Mar. 18; v. 260; p. 444.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car-door-controlling device. No. 1,297,519; Mar. 18; v. 260; p. 444.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake device. No. 1,297,520; Mar. 18; v. 260; p. 444.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive-brake equipment. No. 1,299,268; Apr. 1; v. 261; p. 149.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,299,269; Apr. 1; v. 261; p. 149.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure-brake device. No. 1,299,270; Apr. 1; v. 261; p. 149.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-rigging release device. No. 1,307,165; June 17; v. 263; p. 424.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Swab-protector and nut-lock. No. 1,307,166; June 17; v. 263; p. 425.
- Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,309,786; July 15; v. 264; p. 394.
- Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Brake-application-valve device. No. 1,309,787; July 15; v. 264; p. 394.
- Turner, Walter V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,309,788; July 15; v. 264; p. 394.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Straight-air emergency-valve device. No. 1,311,930; Aug. 5; v. 265; p. 15.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,312,649; Aug. 12; v. 265; p. 181.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pump-lubricator. No. 1,312,650; Aug. 12; v. 265; p. 182.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,313,030; Aug. 12; v. 265; p. 256.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Temperature-control locomotive-cylinder. No. 1,314,167; Aug. 26; v. 265; p. 521.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,314,168; Aug. 26; v. 265; p. 521.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake system. No. 1,316,204; Sept. 16; v. 266; p. 340.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-control device. No. 1,316,205; Sept. 16; v. 266; p. 340.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,316,206; Sept. 16; v. 266; p. 341.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,316,207; Sept. 16; v. 266; p. 341.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake equipment. No. 1,316,208; Sept. 16; v. 266; p. 341.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety-car-control equipment. No. 1,317,529; Sept. 30; v. 266; p. 674.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety-car-control device. No. 1,317,530; Sept. 30; v. 266; p. 674.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,318,243; Oct. 7; v. 267; p. 112.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Protector for contact-fingers. No. 1,318,244; Oct. 7; v. 267; p. 113.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake system. No. 1,318,245; Oct. 7; v. 267; p. 113.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car-door motor. No. 1,326,228; Dec. 30; v. 269; p. 724.
- Turner, Walter V., Wilkinsburg, and T. H. Thomas, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Regenerative braking system. No. 1,322,844; Nov. 25; v. 268; p. 634.
- Turner, Walter V., Wilkinsburg, and T. H. Thomas, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Regenerative braking system for series motors. No. 1,322,845; Nov. 25; v. 268; p. 634.
- Turner, William E., Rochester, N. Y. Fire-escape. No. 1,316,604; Sept. 23; v. 266; p. 465.



- Turner, William H. (See Isherwood and Turner.)
- Turner, William J., San Francisco, Cal. Sprinkler-head. No. 1,292,664; Jan. 28; v. 258; p. 712.
- Turner, William J., San Francisco, Calif. Sprinkler-head. No. 1,314,169; Aug. 26; v. 265; p. 521.
- Turner, William J., Providence, R. I. Regulator. No. 1,296,881; Mar. 11; v. 260; p. 276.
- Turner, William J., Providence, R. I. Steam-heating apparatus. No. 1,318,514; Oct. 14; v. 267; p. 224.
- Turner, William L., Atherstone, England. Manufacture of steel or ferro alloys. No. 1,325,455; Dec. 16; v. 269; p. 525.
- Turner, William L., Atherstone, and H. A. Blackwell, Bispham, Blackpool, England. Manufacture of metal alloys. No. 1,321,684; Nov. 11; v. 268; p. 314.
- Turney, Eugene T., New York, N. Y., assignor to one-half to E. C. Wilcox, Meriden, Conn. Sound reproducing and recording apparatus. No. 1,306,131; June 10; v. 263; p. 200.
- Turnquist, Magnus W., Chicago, Ill. Phonograph. No. 1,294,850; Feb. 18; v. 259; p. 504.
- Turpin, J. B., et al. (See Reusz, Maximilian J., assignor.)
- Turreff, Stanley J., New York, N. Y., assignor to Federal Signal Company, Albany, N. Y. Railway signaling system. No. 1,317,645; Sept. 30; v. 266; p. 697.
- Turrell, George, and A. Armstrong, Tacoma, Wash. Furniture-polish. No. 1,325,686; Dec. 23; v. 269; p. 587.
- Turretini, Horace, Geneva, Switzerland. Proceeding and apparatus for heating liquid by means of heat produced by chemical reactions in closed vessels. No. 1,303,618; May 13; v. 262; p. 241.
- Turretini, Horace, Geneva, Switzerland. Heating device. No. 1,321,574; Nov. 11; v. 268; p. 293.
- Turver, William H. (See Camm, Charles E., assignor.)
- Tuttle, Albert H., Cambridge, Mass. Suction apparatus for surgical use. No. 1,316,340; Sept. 16; v. 266; p. 366.
- Tuttle, Alpha D., West Barrington, N. H. Shingling-bracket. No. 1,299,874; Apr. 8; v. 261; p. 315.
- Tuttle, John C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Manufacturing tires. No. 1,326,312; Dec. 30; v. 269; p. 740.
- Tuttle, Montague H., Atlanta, Ga. Tire-tool. No. 1,302,734; May 6; v. 262; p. 48.
- Tuttle, Orley C., Old Forge, N. Y. Fish-bait. No. 1,302,102; Apr. 29; v. 261; p. 863.
- Tuttle, Walter L., Providence, R. I. Reel construction. No. 1,307,526; June 24; v. 263; p. 524.
- Tveden, Peder O., Watford City, N. D. Pulley. No. 1,309,921; July 15; v. 264; p. 419.
- Tredt, Thomas T., Brooklyn, N. Y. Muffler. No. 1,291,271; Jan. 14; v. 258; p. 324.
- Tweeden, Andrew W., Tacoma, Wash. Anti-skidding brake. No. 1,323,934; Dec. 2; v. 269; p. 134.
- Tweedy, Edmund F., Glenbrook, Conn. Heater. No. 1,308,380; July 1; v. 264; p. 68.
- Twells, Arthur H., township of Urmston, county of Lancaster, England. Automatic cut-off or cushioning gear for duplex pumps. No. 1,296,234; Mar. 4; v. 260; p. 95.
- Twin Bobbin Sewing Machine Company. (See Bell, Frederick J. T. and H. C., assignors.)
- Twin City Forge & Foundry Company. (See Keenan, Christensen, and Ruemelin, assignors.)
- Twining, Charles, Locust Point, N. J. Aeroplane. No. 1,315,884; Sept. 9; v. 266; p. 267.
- Twiss, Samuel B., Lewistown, Mont. Camping-cabinet. No. 1,326,809; Dec. 30; v. 269; p. 834.
- Twitcomb, Edward R., Fargo, N. D. Nose-guard. No. 1,297,753; Mar. 18; v. 260; p. 495.
- Twitcomb Process Company. (See Divine, Robert E., assignor.)
- Twite, Charles W., Dongan Hills, N. Y. Detachable cuff. No. 1,291,272; Jan. 14; v. 258; p. 324.
- Two Cure Retread Mold Company. (See Bongio and Stephenson, assignors.)
- Two Part Rim Company. (See Peters and Johnson, assignors.)
- Twombly, Royal W., Freeport, Tex. Tread for pneumatic tires. No. 1,317,185; Sept. 30; v. 266; p. 609.
- Twombly, Willard L., New York, N. Y., assignor, by mesne assignments, to D. S. Dodge, Westogue, Conn. Aeroplane. No. 1,322,976; Nov. 25; v. 268; p. 659.
- Twomley, Melvan L., Chicago, Ill., assignor, by mesne assignments, to Sefton Manufacturing Corporation, Millbrook, N. Y. Machine for making corrugated board. No. 1,313,844; Aug. 19; v. 265; p. 426.
- Twycross, George. (See Thomson, Severn, and Twycross.)
- Twyman, Frank, London, England, and H. Workman, Glasgow, Scotland. Optical appliance for two-color heliochromy. No. 1,304,517; May 20; v. 262; p. 448.
- Twyman, Frank, London, England, and H. Workman, Glasgow, Scotland. Production of color cinematographic bands and means therefor. No. 1,312,088; Aug. 5; v. 265; p. 44.
- Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Graduating range-finders. No. 1,306,320; June 10; v. 263; p. 237.
- Twyman, Frank, assignor to A. Hilger, Limited, London, England. Annealing and apparatus used therein. No. 1,324,418; Dec. 9; v. 269; p. 271.
- Tybon Company. (See Kirkbride, Edmund, assignor.)
- Tyler, Alva W., Los Angeles, Cal. Gas-turbine. No. 1,291,273; Jan. 14; v. 258; p. 324.
- Tyler, Burton A., Cambridge, Ill. Fat-cutter. No. 1,294,203; Feb. 11; v. 259; p. 318.
- Tyler, Hugh C. (See Newton, Will L., assignor.)
- Tyler, James E., Helen, Ga. Convertible velocipede. No. 1,309,493; July 8; v. 264; p. 302.
- Tyler, Samuel T., assignor to Warwood Tool Company, Wheeling, W. Va. Manufacturing pick-mattocks. No. 1,296,235; Mar. 4; v. 260; p. 95.
- Tyler, Thaddeus P., Haverhill, Mass. Punching-machine measuring attachment. No. 1,295,239; Feb. 25; v. 259; p. 616.
- Tyler, William C., Racine, Wis., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making structure. No. 1,293,124; Mar. 25; v. 260; p. 598.
- Tyler, William C., Racine, Wis., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,320,295; Oct. 28; v. 267; p. 610.
- Tymczyna, Michal, Calder, Saskatchewan, Canada. Adjustable stand. No. 1,293,253; Feb. 4; v. 259; p. 64.
- Tyner, Richard H., Cincinnati, Ohio. Booth for classifying, marking, and enumerating laundry. No. 1,295,641; Feb. 25; v. 259; p. 708.
- Tyner, Richard H., assignor to The National Marking Machine Company, Cincinnati, Ohio. Laundry-sorting booth. No. 1,321,953; Nov. 18; v. 268; p. 415.
- Typpi, John N., Iron Belt, Wis. Vehicle construction. No. 1,300,055; Apr. 8; v. 261; p. 353.
- Tyrie, James, and A. Gregg, Belfast, Ireland. Cork-cutting machine. No. 1,300,305; Apr. 15; v. 261; p. 434.
- Tyrrrell, Edward J. (See Bolund, Gustav, assignor.)
- Tyrrrell, Frederick S., Winnetka, assignor to Burke & James, Inc., Chicago, Ill. Paper backing for film-cartridges. No. 1,300,056; Apr. 8; v. 261; p. 353.
- Tyson, Alfred, Sappington, Mo. Weed-destroyer. No. 1,299,406; Apr. 1; v. 261; p. 179.
- Tyson, Homer N., Telford, Wash. Ax-handle guard. No. 1,310,312; July 15; v. 264; p. 489.
- Tzibides, James N., Revere, and R. H. Parker, Winthrop, Mass.; said Parker assignor to said Tzibides. Machine for affixing stamps and the like. No. 1,302,735; May 6; v. 262; p. 48.
- U. S. Ball Bearing Manufacturing Company. (See Lip-pert-Bruenauer, Otto A. J. R., assignor.)
- U. S. Bottlers' Machinery Company. (See Risser, Arthur I., assignor.)
- U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)
- U. S. Industrial Alcohol Co. (See Carter, Ray M., assignor.)
- U. S. Light & Heat Corporation. (See Bauer, Ernst, assignor.)
- U. S. Light & Heat Corporation. (See Bliss, William L., assignor.)
- U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)
- U. S. Light & Heat Corporation. (See Donop, August W., assignor.)
- U. S. Light & Heat Corporation. (See Du Bois, Thomas R., assignor.)
- U. S. Light & Heat Corporation. (See Loudon, Warren P., assignor.)
- U. S. Light & Heat Corporation. (See Moskowitz, Morris, assignor.)
- U. S. Light & Heat Corporation. (See Phillips, Henry H., assignor.)
- U. S. Light and Heat Corporation. (See Rahling, Henry D., assignor.)
- U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)
- U. S. Light & Heat Corporation. (See Zimmerman, Thomas, assignor.)
- U. S. Playing Card Company, The. (See Albert, Clifford E., assignor.)
- U. S. Slicing Machine Company. (See Demuth, Alfred M., assignor.)
- U. S. Slicing Machine Company. (See Heitzman, Arthur H., assignor.)
- U. S. Slicing Machine Company. (See Luschka and Folk, assignors.)
- U. S. Slicing Machine Company. (See Stiles, Edward M., assignor.)
- U. S. Slicing Machine Company. (See Van Berkel, Cornelis F. M., assignor.)
- U. S. Slicing Machine Company. (See Van Berkel, Wilhelmus A., assignor.)
- U. S. Slicing Machine Company. (See Woodington, John C., assignor.)
- Uchida, Yohtarō, Tokyo, Japan. Electric-current limiter. No. 1,311,027; July 22; v. 264; p. 652.
- Udall, John W., Weston, Ontario, Canada. Personal safety appliance. No. 1,315,436; Sept. 9; v. 266; p. 186.
- Udall, Phillip A., Stockton, Cal. Valve-grinding machine. No. 1,295,940; Mar. 4; v. 260; p. 27.
- Udesen, Ude P., St. Paul, Minn. Air-gun. No. 1,292,665; Jan. 28; v. 258; p. 713.



## Alphabetical list of patentees—Continued.

- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Focus-rectifier. No. 1,291,274; Jan. 14; v. 258; p. 324.
- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Framing device. No. 1,291,275; Jan. 14; v. 258; p. 324.
- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Motion-picture kinetoscope. No. 1,291,276; Jan. 14; v. 258; p. 325.
- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Motion-picture camera. No. 1,291,277; Jan. 14; v. 258; p. 325.
- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Film-guide control. No. 1,300,057; Apr. 8; v. 261; p. 354.
- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Motion-picture camera. No. 1,305,633; June 3; v. 263; p. 78.
- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Automatic loop making and retaining device. No. 1,309,990; July 15; v. 264; p. 432.
- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Film-guide control. (Reissue.) No. 14,694; July 22; v. 264; p. 676.
- Uebelmesser, Charles, New York, N. Y., assignor to Cru Patents Corporation. Film-receptacle and support therefor. No. 1,320,589; Nov. 4; v. 268; p. 43.
- Uecker, Charles F., New London, Wis. Motor. No. 1,311,193; July 29; v. 264; p. 716.
- Ueda, Toyokitsu, Kioto, Japan. Glass-matting process. No. 1,306,505; June 10; v. 263; p. 271.
- Uffelman, Walter. (See Wiegand and Uffelman.)
- Uffelman, Einar, New York, N. Y. Container. No. 1,309,376; July 8; v. 264; p. 280.
- Ufford, Charles A., Boston, Mass. Dress-form. No. 1,293,580; Feb. 4; v. 259; p. 141.
- Uhl, Henry W. (See Gassmann and Uhl.)
- Uhlrick, Caton, Big Sandy, Mont. Fruit-gathering device. No. 1,296,236; Mar. 4; v. 260; p. 96.
- Uhlemann, William R., Chicago, Ill. Lens-mounting. No. 1,290,419; Jan. 7; v. 258; p. 97.
- Uhlemann, William R., Chicago, Ill. Lens-mount. No. 1,290,420; Jan. 7; v. 258; p. 98.
- Uhlemann, William R., Chicago, Ill. Eyeglass-mounting. No. 1,311,543; July 29; v. 264; p. 782.
- Uhlemann, William R., Chicago, Ill. Lens-mount. No. 1,323,994; Dec. 2; v. 269; p. 145.
- Uhlemann, William R., Chicago, Ill. Eyeglass-mounting. No. 1,323,995; Dec. 2; v. 269; p. 145.
- Uhlenhaut, Fritz, Jr. (See Leland, Edward D., assignor.)
- Uhlrig, Herman, Wamego, Kans. Dumping mechanism for automobile-trucks. No. 1,301,338; Apr. 22; v. 261; p. 688.
- Ulam, Ura U., Chester, W. Va. Tin-cleaning device. No. 1,294,574; Feb. 18; v. 259; p. 439.
- Ulam, Ura U., Chester, W. Va. Alarm for tin-cleaning machines. No. 1,313,766; Aug. 19; v. 265; p. 412.
- Ulevog, Torval N., Earl Grey, Saskatchewan, Canada. Automobile-door latch. No. 1,299,066; Apr. 1; v. 261; p. 104.
- Ulland, Even, Minneapolis, Minn. Rotary engine. No. 1,306,238; June 10; v. 263; p. 222.
- Ullin, Carl G., Issaquah, Wash. Apparatus for curing and preserving fish. No. 1,290,421; Jan. 7; v. 258; p. 98.
- Ullman, Hugo, St. Gallen, Switzerland. Telephonograph. No. 1,310,900; July 22; v. 264; p. 629.
- Ullrich, Georg, Magdeburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Magnetic drum-separator. No. 1,324,529; Dec. 9; v. 269; p. 292.
- Ullrich, William F., Warren, Pa. Propelling mechanism for boats. No. 1,320,511; Nov. 4; v. 268; p. 29.
- Ulmann, Carl J., New York, N. Y. Chair. No. 1,303,994; May 20; v. 262; p. 348.
- Ulrich, Carl J., Lake Crystal, Minn. Grain-cleaner. No. 1,291,278; Jan. 14; v. 258; p. 325.
- Ulrich, Charles B., Jamestown, N. Y. Filing-cabinet. No. 1,306,728; June 17; v. 263; p. 345.
- Ulrich, Charles B., Jamestown, N. Y. Trolling attachment for fishing-lines. No. 1,313,567; Aug. 19; v. 265; p. 374.
- Ulrich, Charles B., Jamestown, N. Y. Indexing device. No. 1,319,816; Oct. 28; v. 267; p. 521.
- Ulrich, Horace W. (See Wilbur and Ulrich.)
- Ulrich, Horace W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,296,023; Mar. 4; v. 260; p. 47.
- Ulrich, John O., Tamaqua, Pa. Root and shoe heel. No. 1,318,305; Oct. 7; v. 267; p. 124.
- Ulrich, Paul T., Miami, Fla. Key-fastener. No. 1,303,133; May 6; v. 262; p. 125.
- Ulrich, Peter M., et al. (See Peckens, Nelson S., assignor.)
- Umbenhower, Cornelius R. (See Sperry and Umbenhower.)
- Umbower, Benjamin F., Royer, Pa. Plow-tractor, stop draft-gear. No. 1,307,383; June 24; v. 263; p. 498.
- Umsted, Judd I., Dayton, Iowa. Driving-gear and transmission. No. 1,306,205; June 10; v. 263; p. 214.
- Un, Wui K., Hongkong, China. Toy war-tank. No. 1,315,057; Sept. 2; v. 266; p. 107.
- Un, Wui K., Hongkong, China. Dust-preventer. No. 1,322,375; Nov. 18; v. 268; p. 495.
- Unczur, John, Lincoln Park, N. Y. Train-signal. No. 1,323,426; Dec. 2; v. 269; p. 38.
- Under-Feed Stoker Company of America, The. (See Kleffel, Harrison E., assignor.) (Reissue.)
- Underfeed Stoker Company Limited. (See Hay, Robert K., assignor.)
- Underhill, Charles R., New Haven, Conn. Brake mechanism. No. 1,309,377; July 8; v. 264; p. 281.
- Underhill, Victor, Reston, Manitoba, Canada. Tractor-wheel attachment for automobiles. No. 1,302,103; Apr. 29; v. 261; p. 864.
- Underwood, Chester J., Elgin, Ill. Dental bridgework. No. 1,299,067; Apr. 1; v. 261; p. 104.
- Underwood Computing Machine Company. (See Becker, Richard M., assignor.)
- Underwood Computing Machine Company. (See Carlin, Samuel E., assignor.)
- Underwood Computing Machine Company. (See Degeer, Gustave O., assignor.)
- Underwood Computing Machine Company. (See Denuis, Adolphus S., assignor.)
- Underwood Computing Machine Company. (See Des Jardins, Benjamin M., assignor.)
- Underwood Computing Machine Company. (See Gumprecht, William L., assignor.)
- Underwood Computing Machine Company. (See Hanson, Hans, assignor.)
- Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)
- Underwood Computing Machine Company. (See Hoyt, Richard F., assignor.)
- Underwood Computing Machine Company. (See Ingram, Oscar L., assignor.)
- Underwood Computing Machine Company. (See Johnson, Arthur A., assignor.)
- Underwood Computing Machine Company. (See Kidder, Wellington H., assignor.)
- Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
- Underwood Computing Machine Company. (See Robinson, Frank A., assignor.)
- Underwood Computing Machine Company. (See Steiger, Andrew W., assignor.)
- Underwood Computing Machine Company. (See Stickney, Burnham C., assignor.)
- Underwood Computing Machine Company. (See Thomas, Edward, assignor.)
- Underwood Computing Machine Company. (See Thomas and Stickney, assignors.)
- Underwood Computing Machine Company. (See Whiting, Horatio, assignor.)
- Underwood Computing Machine Company. (See Wood, Alfred J., assignor.)
- Underwood Computing Machine Company. (See Wright, Walter, assignor.)
- Underwood, Edwin H., Bainbridge, Ga. Cattle-guard. No. 1,326,622; Dec. 30; v. 269; p. 798.
- Underwood Engineering Company. (See Underwood, John T., assignor.)
- Underwood, Ernest E. (See Dakin and Underwood.)
- Underwood, Henry A., Grand Forks, N. D. Shock and sheaf carrier. No. 1,299,875; Apr. 8; v. 261; p. 315.
- Underwood, John T. (See Des Jardins, Benjamin M., assignor.)
- Underwood, John T. (See Martineau, Clarence R., assignor.)
- Underwood, John T., Dayton, Ohio, assignor to Underwood Engineering Company, Detroit, Mich. Method of and apparatus for treating ceramic and similar material. No. 1,298,125; Mar. 25; v. 260; p. 599.
- Underwood, Lawrence H., Youngstown, Ohio. Tank for holding corrosive substances. No. 1,303,421; May 13; v. 262; p. 205.
- Underwood, Lawrence H., Youngstown, and R. B. Hitchcock, Struthers, Ohio. Flushing system for by-product coke plants. No. 1,309,161; July 8; v. 264; p. 241.
- Underwood, Percival G., Philadelphia, Pa. Indicating-tag. No. 1,304,417; May 20; v. 262; p. 428.
- Underwood Typewriter Company. (See Burrige, Lee S., assignor.)
- Underwood Typewriter Company. (See Byrd, Samuel M., assignor.)
- Underwood Typewriter Company. (See Cook, Frank A., assignor.)
- Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
- Underwood Typewriter Company. (See Des Jardins, Benjamin M., assignor.)
- Underwood Typewriter Company. (See Doane, John C., assignor.)
- Underwood Typewriter Company. (See Fengler, Hermann V., assignor.)
- Underwood Typewriter Company. (See Fenton, Walter, assignor.)
- Underwood Typewriter Company. (See Glackin, Daniel T., assignor.)
- Underwood Typewriter Company. (See Helmund, William F., assignor.)



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 Underwood Typewriter Company. (See Van Hook, Collins, assignor.)  
 Underwood Typewriter Company. (See Van Note, Eugene, assignor.)  
 Underwood Typewriter Company. (See Waldheim, John, assignor.)  
 Underwood Typewriter Company. (See Wayrich, Alexander, assignor.)  
 Underwood Typewriter Company. (See Wernery, Lester A., assignor.)  
 Underwood Typewriter Company. (See Wheaton, Earle H., assignor.)  
 Underwood Typewriter Company. (See Wherry, John A., assignor.)  
 Underwood Typewriter Company. (See White, William L., assignor.)  
 Underwood, Walter H., New York, N. Y. Milk-bottle cap. No. 1,315,802; Sept. 9; v. 266; p. 251.  
 Underwood, Walter H., New York, N. Y. Metal-working machine. No. 1,320,296; Oct. 28; v. 267; p. 610.  
 Underwood, Weeden B., assignor to Wilmot Castle Company, Rochester, N. Y. Sterilizer. No. 1,318,246; Oct. 7; v. 267; p. 113.  
 Underwood, Weeden B., and J. H. Castle, assignors to Wilmot Castle Company, Rochester, N. Y. Receptacle. No. 1,308,563; July 1; v. 264; p. 101.  
 Ungar, Gustav A., Cleveland, Ohio, assignor to F. R. Blair & Co., Inc., New York, N. Y. Flexible coupling. No. 1,302,248; Apr. 29; v. 261; p. 891.  
 Unger, Mangus, Pittsfield, Mass., assignor to General Electric Company. Induction-furnace. No. 1,326,120; Dec. 23; v. 269; p. 667.  
 Unger, Paul O., Oak Park, Ill. Vise. No. 1,292,930; Jan. 28; v. 258; p. 775.  
 Unger, Paul O., Oak Park, Ill. Turn-table or swivel. No. 1,321,497; Nov. 11; v. 268; p. 279.  
 Unger, Samuel J., et al. (See Hollander, Jacob H., assignor.)  
 Uni-Form Company, The. (See Ambursen, Nils F., assignor.)  
 Uni-Form Company, The. (See Church, William L., assignor.)  
 Union Carbide Company. (See Becket, Frederick M., assignor.)  
 Union Carbide Company. (See Curme, George O., Jr., assignor.)  
 Union Carbide Company. (See Morton, Harold A., assignor.)  
 Union Carbide Company. (See Morton and Nicolet, assignors.)  
 Union Connector Company. (See Woodruff, Leonidas D., assignor.)  
 Union Electric Manufacturing Company. (See Keeney, Charles H., assignor.)  
 Union Fibre Company. (See Brown, Alfred G., assignor.)  
 Union Iron Works. (See Tidmarsh, Harry E., assignor.)  
 Union Lock Stitch Company. (See Merrick, Frank W., assignor.)  
 Union Metal Manufacturing Company, The. (See Drumm, Herbert C., assignor.)  
 Union Metal Products Company. (See Mathews, Fred, assignor.)  
 Union Radiator Company. (See Wendell, George W., assignor.)  
 Union Railway Equipment Co. (See Hall, William B., assignor.)  
 Union Special Machine Company. (See Berger, Joseph, Jr., assignor.)  
 Union Special Machine Company. (See Chalman, John E., assignor.)  
 Union Special Machine Company. (See Clark, Nelson D., assignor.)  
 Union Special Machine Company. (See De Nure, Ulysses S., assignor.)  
 Union Special Machine Company. (See Heap, Jesse J., assignor.)  
 Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)  
 Union Special Machine Company. (See McNeil, Chester, assignor.)  
 Union Special Machine Company. (See Moffatt, James R., assignor.)  
 Union Special Machine Company. (See Moffatt and Kelso, assignors.)  
 Union Special Machine Company. (See Onderdonk, Lansing, assignor.)  
 Union Special Machine Company. (See Onderdonk and Wohlpart, assignors.)  
 Union Special Machine Company. (See Peddie, Sidney F., assignor.)  
 Union Special Machine Company. (See Seymour, Dudley S., assignor.)  
 Union Special Machine Company. (See Tate, Samuel G., assignor.)  
 Union Steam and Pump Company. (See Smith, Karl D., assignor.)  
 Union Switch & Signal Company, The. (See Baker, William S. G., assignor.)  
 Union Switch & Signal Company, The. (See Beall, Charles R., assignor.)  
 Union Switch & Signal Company, The. (See Coe, Elmer R., assignor.)  
 Union Switch & Signal Company, The. (See Coe and Gilson, assignors.)  
 Union Switch & Signal Company, The. (See Coleman, John P., assignor.)  
 Union Switch & Signal Company, The. (See Day, Albert V. T., assignor.)  
 Union Switch & Signal Company, The. (See Dunham, Charles W., assignor.)  
 Union Switch & Signal Company, The. (See Griffin, Henry W., assignor.)  
 Union Switch & Signal Company, The. (See Harrington, Clinton O., assignor.)  
 Union Switch & Signal Company, The. (See Holliday, John S., assignor.)  
 Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)  
 Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)  
 Union Switch & Signal Company, The. (See McClelland, William H., Jr., assignor.)  
 Union Switch & Signal Company, The. (See Neubert, Walter P., assignor.)  
 Union Switch & Signal Company, The. (See Nicholson, Frank H., assignor.)  
 Union Switch & Signal Company, The. (See Peter, Bernard H., assignor.)  
 Union Switch & Signal Company, The. (See Snavelly, Clarence S., assignor.)  
 Union Switch & Signal Company, The. (See Utne, Per, assignor.)  
 Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)  
 Union Switch & Signal Company, The. (See Zabel, William, assignor.)  
 Union Technical Corporation. (See Davenport, James E., assignor.)  
 Union Wrapping Machine Company. (See Streich, Paul B., assignor.)  
 Union Wrapping Paper Company, The. (See Streich, Frank and P. B., assignors.)  
 Unit Brick and Stone Company. (See Peterson, George A., assignor.)  
 Unit Ice Machine Co., The. (See Knox, George F., assignor.)  
 United Alfalfa Co. (See Peters, Milton C., assignor.)  
 United Alkali Company. (See Roberts, John A., assignor.)  
 United Brass Manufacturing Company. (See Schuller, Fred, assignor.)  
 United Brass Manufacturing Company. (See Schultis, Charles F., assignor.)  
 United Broom Company, The. (See Howland-Shearman, Charles H., assignor.)  
 United Chemical & Organic Products Co. (See Schweitzer, Adolph, assignor.)  
 United Drug Company. (See Purple, Harry J., assignor.)  
 United Electric Company, The. (See Dillon, Charles A., assignor.)  
 United Electric Company, The. (See Goughnour, Charles L., assignor.)  
 United Engineering & Foundry Company. (See Jones, Lloyd, assignor.)  
 United Filters Corporation. (See Salisbury, Orange J., assignor.)  
 United Filters Corporation. (See Sweetland, Ernest J., assignor.)  
 United Gas Improvement Company. (See Fulweiler, Walter H., assignor.)  
 United Injector Company, The. (See Williston, Belvin T., assignor.)  
 United Leather Goods Co. (See Guenther, Henry J., assignor.)  
 United Metal Hose Company. (See Kahn, Julius, assignor.)  
 United Metal Hose Company. (See Levitt, Samuel, assignor.)



*Alphabetical list of patentees—Continued.*

- United Phonographs Corporation. (See Hansen, Oswald H., assignor.)  
 United Printing Machinery Company. (See Upham, Burt F., assignor.)  
 United Publishers Corporation. (See Gregory, Walter D., assignor.)  
 United Shirt and Collar Company. (See Dormandy, Garry J., assignor.)  
 United Shirt and Collar Company. (See Pine, James K. P., assignor.)  
 United Shirt & Collar Company. (See Sipperly, John E., assignor.)  
 United Shoe Machinery Corporation. (See Akerley, Fred R., assignor.)  
 United Shoe Machinery Corporation. (See Alexander, Alexander M., assignor.)  
 United Shoe Machinery Corporation. (See Ashton, Orrell, assignor.)  
 United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)  
 United Shoe Machinery Corporation. (See Baer, John W., assignor.)  
 United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)  
 United Shoe Machinery Corporation. (See Bates and Pegg, assignors.)  
 United Shoe Machinery Corporation. (See Baxter, William C., assignor.)  
 United Shoe Machinery Corporation. (See Beaumont, Ernest C., assignor.)  
 United Shoe Machinery Corporation. (See Benjamin, John M., assignor.)  
 United Shoe Machinery Corporation. (See Bennion, Charles F., assignor.)  
 United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)  
 United Shoe Machinery Corporation. (See Black, George H., assignor.)  
 United Shoe Machinery Corporation. (See Bohanan, Budd D., assignor.)  
 United Shoe Machinery Corporation. (See Bolin, Nils P., assignor.)  
 United Shoe Machinery Corporation. (See Borden, William H., assignor.)  
 United Shoe Machinery Corporation. (See Braden, Albert R., assignor.)  
 United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)  
 United Shoe Machinery Corporation. (See Brogan, James A., assignor.)  
 United Shoe Machinery Corporation. (See Brogan, Michael F., assignor.)  
 United Shoe Machinery Corporation. (See Brothers, Eli, assignor.)  
 United Shoe Machinery Corporation. (See Brown, Louis M., assignor.)  
 United Shoe Machinery Corporation. (See Brown and Macleod, assignors.)  
 United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)  
 United Shoe Machinery Corporation. (See Cavanagh, James, assignor. (Reissue.)  
 United Shoe Machinery Corporation. (See Christy, Frank W., assignor.)  
 United Shoe Machinery Corporation. (See Connor, John H., assignor.)  
 United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)  
 United Shoe Machinery Corporation. (See Davenport, Eugene F., assignor.)  
 United Shoe Machinery Corporation. (See Davenport, Herman A., assignor.)  
 United Shoe Machinery Corporation. (See Davey, John F., assignor.)  
 United Shoe Machinery Corporation. (See De Minico, Charles, assignor.)  
 United Shoe Machinery Corporation. (See Dolan, John J., assignor.)  
 United Shoe Machinery Corporation. (See Dunbar and Ferguson, assignors.)  
 United Shoe Machinery Corporation. (See Dunphy, James A., assignor.)  
 United Shoe Machinery Corporation. (See Dyer, Newell V., assignor.)  
 United Shoe Machinery Corporation. (See Eaton, Charles C., assignor.)  
 United Shoe Machinery Corporation. (See Eaton, Harrison H., assignor.)  
 United Shoe Machinery Corporation. (See Engel, Karl, assignor.)  
 United Shoe Machinery Corporation. (See Enslin, Herbert E., assignor.)  
 United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)  
 United Shoe Machinery Corporation. (See Eppler and Neal, assignors.)  
 United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)  
 United Shoe Machinery Corporation. (See Ferguson, George, assignor.)  
 United Shoe Machinery Corporation. (See Follansbee, Osborne K., assignor.)  
 United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)  
 United Shoe Machinery Corporation. (See Foster, Edward E., assignor.)  
 United Shoe Machinery Corporation. (See Fowler, Alfred B., assignor.)  
 United Shoe Machinery Corporation. (See Fowler, William, assignor.)  
 United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)  
 United Shoe Machinery Corporation. (See Gilbert, Joseph B., assignor.)  
 United Shoe Machinery Corporation. (See Glass, Percy R., assignor.)  
 United Shoe Machinery Corporation. (See Glidden, Harvey L., assignor.)  
 United Shoe Machinery Corporation. (See Glidden, Lester L., assignor.)  
 United Shoe Machinery Corporation. (See Goddu, George, assignor.)  
 United Shoe Machinery Corporation. (See Graham, Charles E., assignor.)  
 United Shoe Machinery Corporation. (See Grandy, Edward F., assignor.)  
 United Shoe Machinery Corporation. (See Grush, Elmer B., assignor.)  
 United Shoe Machinery Corporation. (See Haahr, Anton A., assignor.)  
 United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)  
 United Shoe Machinery Corporation. (See Hamann, William, assignor.)  
 United Shoe Machinery Corporation. (See Hamilton, John H., assignor.)  
 United Shoe Machinery Corporation. (See Hammond, William P., assignor.)  
 United Shoe Machinery Corporation. (See Heys, John J., assignor.)  
 United Shoe Machinery Corporation. (See Hill, George S., assignor.)  
 United Shoe Machinery Corporation. (See Hooper, William H., assignor.)  
 United Shoe Machinery Corporation. (See Hudson, Albert E., assignor.)  
 United Shoe Machinery Corporation. (See Jerram and Keall, assignors.)  
 United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)  
 United Shoe Machinery Corporation. (See Knight, Ralph F., assignor.)  
 United Shoe Machinery Corporation. (See Knowlton, Cutler D., assignor.)  
 United Shoe Machinery Corporation. (See Knowlton, Norwood H., assignor.)  
 United Shoe Machinery Corporation. (See Lane, Elmer E., assignor.)  
 United Shoe Machinery Corporation. (See Latham, Albert, assignor.)  
 United Shoe Machinery Corporation. (See Lawson, Robert H., assignor.)  
 United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)  
 United Shoe Machinery Company. (See Littlefield, Augustine F., assignor.)  
 United Shoe Machinery Corporation. (See Lloyd and Simpson, assignors.)  
 United Shoe Machinery Corporation. (See Loomer, Henry M., assignor.)  
 United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)  
 United Shoe Machinery Corporation. (See Macleod and Brown, assignors.)  
 United Shoe Machinery Corporation. (See MacKenzie, Fred L., assignor.)  
 United Shoe Machinery Corporation. (See McMurray, Harry G., assignor.)  
 United Shoe Machinery Corporation. (See MacMurtry, Thomas J., Jr., assignor.)  
 United Shoe Machinery Corporation. (See Mayo, Benjamin F., assignor.)  
 United Shoe Machinery Corporation. (See McDonald, Joseph A., assignor.)  
 United Shoe Machinery Corporation. (See McFeely, Ronald F., assignor.)  
 United Shoe Machinery Corporation. (See Merritt, Frank R., assignor.)  
 United Shoe Machinery Corporation. (See Meyer, William C., assignor.)  
 United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)  
 United Shoe Machinery Corporation. (See Paquin, Joseph A., assignor.)  
 United Shoe Machinery Corporation. (See Perri, Angelo, assignor.)  
 United Shoe Machinery Corporation. (See Phelan, Merton D., assignor.)  
 United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)  
 United Shoe Machinery Corporation. (See Preble, Edwin N., assignor.)  
 United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)



- United Shoe Machinery Corporation. (See Quinlan, Daniel E., assignor.)  
 United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)  
 United Shoe Machinery Corporation. (See Reed, Walter W., assignor.)  
 United Shoe Machinery Corporation. (See Remick, Lloyd T., assignor.)  
 United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)  
 United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)  
 United Shoe Machinery Corporation. (See Rogers, Albert N., assignor.)  
 United Shoe Machinery Corporation. (See Russell and Grush, assignors.)  
 United Shoe Machinery Corporation. (See Sayer, John, assignor.)  
 United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)  
 United Shoe Machinery Corporation. (See Shaw, Walter, assignor.)  
 United Shoe Machinery Corporation. (See Stewart, William C., assignor.)  
 United Shoe Machinery Corporation. (See Taylor, Frank A., assignor.)  
 United Shoe Machinery Corporation. (See Thissell, Jesse K., assignor.)  
 United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)  
 United Shoe Machinery Corporation. (See Warren, Frank H., assignor.)  
 United Shoe Machinery Corporation. (See Warren, George E., assignor.)  
 United Shoe Machinery Corporation. (See Webb, Horace D., assignor.)  
 United Shoe Machinery Corporation. (See Wentworth, Samuel J., assignor.)  
 United Shoe Machinery Corporation. (See Wentworth and Perry, assignors.)  
 United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)  
 United Shoe Machinery Corporation. (See Winslow, Sidney W. Jr., assignor.)  
 United Shoe Machinery Corporation. (See Winter, Henry W., assignor.)  
 United Shoe Machinery Corporation. (See Winter and Smith, assignors.)  
 United States Auto Gear Shift Company. (See Weber, Leibing, and Jacobsen, assignors.)  
 United States Carburetor Company. (See Hale and Dull, assignors.)  
 United States Cast Iron Pipe and Foundry Company. (See Anthony, Thomas P., assignor.)  
 United States Cast Iron Pipe and Foundry Company. (See Jones, Isaac, assignor.)  
 United States Cast Iron Pipe & Foundry Company. (See Ladd, James B., assignor.)  
 United States Cast Iron Pipe & Foundry Company. (See Lemoine, Louis R., assignor.)  
 United States Cast Iron Pipe & Foundry Company. (See Strobridge, William, assignor.)  
 United States Compressing Corporation. (See Whitney, George E., assignor.)  
 United States Electric Company. (See Jones, George A. E., assignor.)  
 United States Envelope Company. (See Cather, Charles E., assignor.)  
 United States Envelope Company. (See Furman, Samuel, assignor.)  
 United States Envelope Company. (See Haywood, Vincent E., assignor.)  
 United States Envelope Company. (See Novick, Abraham, assignor.)  
 United States Envelope Company. (See Swift, Willard E., assignor.)  
 United States Fuel Saving Equipments Corporation. (See Anderson, David W., assignor.)  
 United States Gauge Company. (See Place, Josiah W., assignor.)  
 United States Glue Company. (See Bates, Carleton, assignor.)  
 United States Graphotype Company. (See Nicholas and Ackerman, assignors.)  
 United States Gypsum Company. (See Nies and Birdsey, assignors.)  
 United States Gypsum Company. (See Utzman, Clarence W., assignor.)  
 United States Head-Light Company, The. (See Kirby, John, Jr., assignor.)  
 United States Hoffman Machinery Company. (See Chase, Herschel E., assignor.)  
 United States Hoffman Machinery Company. (See Palmer, Theodore D., assignor.)  
 United States Hoffman Machinery Company. (See Spencer, James B., assignor.)  
 United States Manufacturing Company *et al.* (See Lawrence, Willse, assignor.)  
 United States of America. (See Bouson, Herbert H., assignor.)  
 United States of America. (See Buttermann, Samuel, assignor.)  
 United States of America. (See Edwardes, Vance P., assignor.)  
 United States of America. (See Lindauer, Alfred C., assignor.)  
 United States Oil Burner Corporation. (See Bester, Leonard, assignor.)  
 United States Ordnance Company. (See Adelman, Arthur, assignor.)  
 United States Ordnance Company. (See Asbury, Dorsey F., assignor.)  
 United States Ordnance Company. (See Dawson and Buckham, assignors.)  
 United States Ordnance Company. (See Powers, John N., assignor.)  
 United States Ordnance Company. (See Ragsdale, Earl J. W., assignor.)  
 United States Ordnance Company. (See Sheppard, Creedy C., assignor.)  
 United States Printing and Lithograph Company, The. (See Furste, Henry, assignor.)  
 United States Spindle Company. (See Nainteau, John B., assignor.)  
 United States Spot Ground Corporation. (See Merritt, Thomas Z., assignor.) (Reissue.)  
 United States Smelting Refining & Mining Company. (See Smith, Walter C., assignor.)  
 United States Vaporizer Co. (See Olsen, George O., assignor.)  
 United States Window Glass Company. (See Warrick, Charles F., assignor.)  
 United States Wire Mat Company. (See Calef, Harry R., assignor.)  
 United States Wool Company, The. (See McBride, Hiram Y., assignor.)  
 United-Xpedite Finishing Company. (See Lund, Thomas, assignor.)  
 United-Xpedite Finishing Company. (See Standish, John F., assignor.)  
 Universal Arch Company. (See Miller, Charles E., assignor.)  
 Universal Brush Company. (See Booth, Alba C., assignor.) (Reissue.)  
 Universal Camera Co., The. (See Davis, Ernest W., assignor.)  
 Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)  
 Universal Draft Gear Attachment Co. (See Kinsman, Charles C., assignor.)  
 Universal Electric Welding Company. (See Lachman, Laurence S., assignor.)  
 Universal Electric Welding Company. (See Smith, Herbert L., assignor.)  
 Universal Elevated Railway Company. (See McClure, Reeves, and Boulton, assignors.)  
 Universal Elevated Railway Company. (See McClure, Stevens, and Boulton, assignors.)  
 Universal Faucet Company. (See Bergens, William J., assignor.)  
 Universal Fixture Corporation. (See Goldberg, Samuel, assignor.)  
 Universal Fixture Corporation. (See Miano, Nicholas J., assignor.)  
 Universal Fluid Vending Machine Company, The. (See Buff, Frank L., assignor.)  
 Universal Fruit Stand Company. (See Lowe and Long, assignors.)  
 Universal Glass Company. (See Debay, George C., assignor.)  
 Universal Grinding Machine Company. (See Robertson and Volk, assignors.)  
 Universal Hammer Company. (See Kollock and Martin, assignors.)  
 Universal Industrial Corporation. (See Swaidmark, Albion P., assignor.)  
 Universal Machine Company. (See Urschel, Bertis H., assignor.)  
 Universal Machinery Company, The. (See Maw and McLean, assignors.)  
 Universal Motor Company. (See Monahan, Louis J., assignor.)  
 Universal Motor Truck and Traction Engine Company. (See Timberlake, Daniel T., assignor.)  
 Universal Oil Products Company. (See Dubbs, Leland A., assignor.)  
 Universal Optical Corporation. (See Beattey, Earle J. R., assignor.)  
 Universal Optical Corporation. (See Searles, Wayne S., assignor.)  
 Universal Patents Company. (See Batchelder, Frank R., assignor.)  
 Universal Patents Company. (See Jennings, Victor H., assignor.)  
 Universal Patents Company. (See Randall, Charles F., assignor.)  
 Universal Patents Company. (See Sisson, Eugene A., assignor.)  
 Universal Rim Company. (See Baker, Erle K., assignor.)  
 Universal Rim Company. (See Funk, Richard W., assignor.)  
 Universal Safety Tread Company. (See Ormes, William R., assignor.)



## Alphabetical list of patentees—Continued.

- Universal Sickle Bar Company. (See Abbenzeller, Alfred D., assignor.)
- Universal Spring Wheel and Manufacturing Company, The. (See Bowman, George W., assignor.)
- Universal Stamping Machine Co. (See Poor, Frederick E., assignor.)
- Universal Tool Company, The. (See Roseberry, Robert E., assignor.)
- Universal Traffic Control Company. (See Wetter, Ralph E., assignor.)
- Universal Utilities Company of Illinois, The. (See Goodhue, Julian G., assignor.)
- Universal Winding Company. (See Brink, Carl A., assignor.)
- Universal Winding Company. (See Foster, George W., assignor.)
- Universal Winding Company. (See Parks, Edward F., assignor.)
- Unkefer, George R., Chicago, Ill. Receptacle. No. 1,291,279; Jan. 14; v. 258; p. 326.
- Unruh, Albert A., assignor to Pacific Evaporator Company, Portland, Oreg. Slicing-machine. No. 1,292,160; Jan. 21; v. 258; p. 571.
- Unruh, Albert A., Portland, assignor of one-fourth to L. M. Unruh and one-fourth to C. L. Unruh, Salem, Oreg. Automobile-lift. No. 1,325,968; Dec. 23; v. 269; p. 639.
- Unruh, Charles L., et al. (See Unruh, Albert A., assignor.)
- Unruh, Daniel, Kansas City, Mo. Bottle. No. 1,295,240; Feb. 25; v. 259; p. 616.
- Unruh, Lee M., et al. (See Unruh, Albert A., assignor.)
- Unsinger, Philip H., assignor to Geneva Cutlery Corporation, Geneva, N. Y. Safety-razor. No. 1,323,730; Dec. 2; v. 269; p. 95.
- Unsinger, Philip H., assignor to Geneva Cutlery Corporation, Geneva, N. Y. Safety-razor. No. 1,323,731; Dec. 2; v. 269; p. 95.
- Uomini, Frank D., Palo Alto, Cal. Indicating device. No. 1,294,575; Feb. 18; v. 259; p. 439.
- Updegrove, Will M. (See Swallender, Swante J. P., assignor.)
- Upham, Artemas B., Malden, assignor, by mesne assignments, to E. Shively, Melrose, Mass. Trolley. No. 1,294,204; Feb. 11; v. 259; p. 318.
- Upham, Burt F., Boston, Mass., assignor, by mesne assignments, to Cross Paper Feeder Company, Portland, Me. Sheet feeding and controlling apparatus. No. 1,305,181; May 27; v. 262; p. 610.
- Upham, Burt F., assignor, by mesne assignments, to United Printing Machinery Company, Boston, Mass. Multicolor sheet-printing press. No. 1,309,555; July 8; v. 264; p. 314.
- Upham, Charles M. (See Hanson and Upham.)
- Upham, Charles M., Stoughton, Mass., assignor of one-half to Coleman du Pont Road, Inc., Georgetown, Del. Water-supplying apparatus. No. 1,291,280; Jan. 14; v. 258; p. 326.
- Upson, Charles A., Lockport, N. Y. Fastening device for wall-board, &c. No. 1,297,611; Mar. 18; v. 260; p. 464.
- Upson, Charles A., Lockport, N. Y. Fastening device for wall-board, &c. No. 1,324,483; Dec. 9; v. 269; p. 283.
- Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Range-finding instrument. No. 1,317,670; Sept. 30; v. 266; p. 702.
- Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Valve. No. 1,318,001; Oct. 7; v. 267; p. 65.
- Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Stream-line shield for cables, stay-wires, and the like. No. 1,324,014; Dec. 2; v. 269; p. 149.
- Upson, William E., Lockport, N. Y. Telephone writing-tablet. No. 1,291,281; Jan. 14; v. 258; p. 326.
- Uptegrove, Frank A., Portland, Oreg. Folding bed. No. 1,325,218; Dec. 16; v. 269; p. 482.
- Upton, Arthur L., and S. N. Immer, Houston, Tex. Burner. No. 1,322,376; Nov. 18; v. 268; p. 495.
- Upton Carburetor Company et al. (See Upton, Roy M., assignor.)
- Upton, George W. (See Liddell, Fred R., assignor.)
- Upton, James M., Sabinal, Tex. Folding chicken or poultry coop. No. 1,306,132; June 10; v. 263; p. 200.
- Upton, John F., Sapulpa, Okla. Valve for air-starter systems. No. 1,313,767; Aug. 19; v. 265; p. 412.
- Upton, Roy M., assignor of one-half to T. J. Norton, Rutherford, N. J., and one-half to Upton Carburetor Company, Inc. Carburetor. No. 1,301,623; Apr. 22; v. 261; p. 740.
- Urbach, Gustave A., Pittsburgh, Pa. Spraying-machine. (Reissue.) No. 14,765; Dec. 2; v. 269; p. 151.
- Urban, William C., et al. (See Osborn, George W., assignor.)
- Urbanek, Joseph, Chicago, Ill. Car-indicator. No. 1,312,146; Aug. 5; v. 265; p. 55.
- Urbano, Faustino B., Linda Vista, assignor of one-third to J. Macaraig, Coronado, Calif. Garbage-can. No. 1,315,803; Sept. 9; v. 266; p. 251.
- Urbanski, Czeslaw, and W. J. and D. F. Smith, Buffalo, N. Y. Horse-collar. No. 1,294,352; Feb. 11; v. 259; p. 352.
- Urbietta, José M., San Antonio, Tex. Journal-lubricator. No. 1,293,254; Feb. 4; v. 259; p. 65.
- Urbietta, José M., San Antonio, Tex. Car-axle lubricator. No. 1,325,599; Dec. 23; v. 269; p. 570.
- Urdang, Jacob S., assignor of one-third to W. H. Scheinman and one-third to A. E. Icove, Cleveland, Ohio. Automobile-signal. No. 1,293,990; Feb. 11; v. 259; p. 268.
- Ureck, Harry, assignor of one-half to W. R. Moore, Burlington, Wis. Combined gaff-hook and fish-rod. No. 1,302,457; Apr. 29; v. 261; p. 932.
- Urier, Edwin. (See Criner, Harry J., assignor.)
- Urich, Benjamin, Milwaukee, Wis. Puncture-closing device for tires. No. 1,313,868; Aug. 19; v. 265; p. 431.
- Urschel, Bertis H., Bowling Green, Ohio. Universal joint. No. 1,309,826; July 15; v. 264; p. 401.
- Urschel, Bertis H., assignor to Universal Machine Company, Bowling Green, Ohio. Universal joint. No. 1,313,508; Aug. 19; v. 265; p. 363.
- Urschel, William E., Valparaiso, Ind. String-bean grader. No. 1,295,642; Feb. 25; v. 259; p. 709.
- Urso Auto Signal Company. (See Urso, Benedetto, assignor.)
- Urso, Benedetto, assignor to Urso Auto Signal Company, Inc., Fairmont, W. Va. Automobile-signal. No. 1,293,255; Feb. 4; v. 259; p. 65.
- Urstrom, Christian, Seattle, Wash. Fireplace-damper. No. 1,308,822; July 8; v. 264; p. 177.
- Urton, Earl W., assignor to C. E. Bowman, Dayton, Ohio. Brake mechanism. No. 1,323,661; Dec. 2; v. 269; p. 82.
- Usher, Francis M. C., Fort Slocum, N. Y. Toothpick-holder. No. 1,291,282; Jan. 14; v. 258; p. 326.
- Usher, Frank J., Jaffrey, British Columbia, Canada. Cylindrical cutter-head for planing-machines. No. 1,315,536; Sept. 9; v. 266; p. 203.
- Usines Electriques de la Lonza. (See Tomasi, Nobile C., assignor.)
- Usrey, Wilfred E., Bingham Canyon, Utah. Drill-bit. No. 1,324,631; Dec. 9; v. 269; p. 312.
- Utah Copper Company, The. (See Gahl, Rudolf, assignor.)
- Utah Idaho Sugar Co. (See Dewey, John, assignor.)
- Utica Valve and Fixture Company. (See Harris, George H., assignor.)
- Utility Compressor Company. (See Holley, Clarence M., assignor.)
- Utne, Per, Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Warning-signal for grade-intersections of railways and highways. No. 1,317,338; Sept. 30; v. 266; p. 638.
- Utter, Richard I. (See Schoenwolf and Utter.)
- Utterbaugh, Walter H., Columbus, Ohio. Air-brake system for motor-cars. No. 1,322,377; Nov. 18; v. 268; p. 495.
- Utterberg, Alfred H. (See Johnson, Swanson, and Utterberg.)
- Utzman, Clarence W., assignor to United States Gypsum Company, Chicago, Ill. Floor construction. No. 1,312,287; Aug. 5; v. 265; p. 80.
- V. Mueller & Co. (See Mueller, Vinzenz, assignor.)
- V. D. Anderson Company, The. (See Anderson, Frederick V., assignor.)
- V. & M. Co. Inc. (See Vincent and McCowan, assignors.)
- V. F. Fittings Company. (See Tresselt, Fritz, assignor.)
- Vacuum Machinery Co. (See McCarthy, Edward F., assignor.)
- Vacuum Muffler Corporation of America. (See Carlén, Bjarne, assignor.)
- Vail, Michael J. (See Coleman, Maurice B., assignor.)
- Vail, Robert W., New York, N. Y. Burglar-alarm device. No. 1,291,283; Jan. 14; v. 258; p. 327.
- Vail, Robert W., assignor of twenty per cent. to C. W. Hart-ridge, New York, N. Y. Rolling support for barrels. No. 1,309,667; July 15; v. 264; p. 373.
- Valade, Daniel J., Highland Park, Mich. Shoe-lacing. No. 1,292,975; Jan. 28; v. 258; p. 786.
- Valcauda, Joseph, Seattle, Wash. Direction-indicator. No. 1,297,612; Mar. 18; v. 260; p. 464.
- Valdes, Jose R., Key West, Fla. Resilient tire. No. 1,292,161; Jan. 21; v. 258; p. 571.
- Vale, John, J. A. Ronning, San Francisco, and B. S. Drake, Oakland, assignors of one-fourth to P. J. McMahon, San Francisco, Cal. Cutting and welding torch. No. 1,290,422; Jan. 7; v. 258; p. 98.
- Valent, Ralph, Pocatello, Idaho. Cover-operating means. No. 1,291,284; Jan. 14; v. 258; p. 327.
- Valente, Vincenzo, and A. Micheletti, New York, N. Y. Hat-shaping apparatus. No. 1,311,194; July 29; v. 264; p. 716.
- Valentine, Ernest D., Springfield, Ohio. Truss for shipping vehicles. No. 1,326,884; Dec. 30; v. 269; p. 848.
- Valentine, Irving R., Fulton, N. Y. High-speed steel. No. 1,321,163; Nov. 11; v. 268; p. 215.
- Valentine, William A. E., New York, N. Y. Gas-oven attachment. No. 1,290,423; Jan. 7; v. 258; p. 98.
- Valerius, Theodore L., Fort Atkinson, Wis., assignor to The Creamery Package Manufacturing Company, Chicago, Ill. Bottle filling and capping machine. No. 1,290,424; Jan. 7; v. 258; p. 98.
- Valerius, Theodore L., Fort Atkinson, Wis., assignor to The Creamery Package Manufacturing Company, Chicago, Ill. Milk or cream vat. No. 1,323,427; Dec. 2; v. 269; p. 38.



- Valerius, Theodore L., and O. Larsen, Fort Atkinson, Wis., assignors to The Creamery Package M'fg Company, Chicago, Ill. Apparatus for coating containers. No. 1,325,815; Dec. 23; v. 269; p. 610.
- Valiton, Fred H., Deer Lodge, Mont. Tire-alarm. No. 1,325,918; Dec. 23; v. 269; p. 629.
- Valk, William E., Jr. (See Gilmore and Valk.)
- Vall, Carl, Rochester, N. Y. Can-server. No. 1,311,669; July 29; v. 264; p. 805.
- Vall, Carl, Rochester, N. Y. Can-server. No. 1,316,122; Sept. 16; v. 266; p. 324.
- Vallaro, Juan, Montevideo, Uruguay. Mechanical auto-indicator system to announce abnormalities that might occur in any of the cars which form railway-trains in movement. No. 1,321,685; Nov. 11; v. 268; p. 314.
- Valle, Angelo, Aguilar, Colo. Engine-support. No. 1,325,816; Dec. 23; v. 269; p. 611.
- Valley Forging Company. (See Dallmeyer and Brown, assignors.)
- Valley, John M., and B. Marcotte, Chicago, Ill. Spark-plug for explosive-engines. No. 1,320,810; Nov. 4; v. 268; p. 85.
- Valley Mould and Iron Corporation. (See Coates, Ray G., assignor.)
- Van Ackeren, Josef, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort-oven. No. 1,312,372; Aug. 5; v. 265; p. 96.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery process. No. 1,307,571; June 24; v. 263; p. 532.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,320,369; Nov. 4; v. 268; p. 3.
- Van Aernam, Marion J., assignor to Van Aernam M'fg Company, Inc., Buffalo, N. Y. Pasteurizing apparatus. No. 1,323,428; Dec. 2; v. 269; p. 39.
- Van Aernam M'fg Company. (See Van Aernam, Marion J., assignor.)
- Van Allen, Clifford, Pittsburgh, Pa. Car-record-statement blank. No. 1,324,943; Dec. 16; v. 269; p. 431.
- Van Alstyn, Albert T., New York, N. Y. Garment-supporter. No. 1,305,418; June 3; v. 263; p. 35.
- Van Alstyn, Albert T., New York, N. Y. Garment-supporter. No. 1,305,419; June 3; v. 263; p. 36.
- Van Alstyn, Albert T., Grand Rapids, Mich. Garter. No. 1,313,356; Aug. 19; v. 265; p. 334.
- Van Alstyn, Albert T., Grand Rapids, Mich. Catamenial bandage. (Reissue.) No. 14,722; Sept. 9; v. 266; p. 277.
- Van Alstyn, Albert T., Montclair, N. J. Belt. No. 1,320,811; Nov. 4; v. 268; p. 85.
- Van Alstyne, Charles H. (See Van Alstyne, M. C. and C. H.)
- Van Alstyne, Charles H. (See Van Alstyne, Matthew C. and C. H.)
- Van Alstyne, Matthew C. and C. H., South Haven, Mich. Oiler. No. 1,323,128; Nov. 25; v. 268; p. 687.
- Van Alstyne, Matthew C., and C. H., South Haven, Mich. Oiler. No. 1,314,771; Sept. 2; v. 266; p. 56.
- Van Amberg, Otto H., Schenectady, N. Y., assignor to General Electric Company. Luminous attachment. No. 1,316,985; Sept. 23; v. 266; p. 535.
- Van Amburgh, Charles, Tacoma, Wash. Alloy. No. 1,300,058; Apr. 8; v. 261; p. 354.
- Van Amburgh, Charles, Tacoma, Wash., assignor to American Smelting & Refining Co. Process and apparatus for removing accretions from mechanical twyers. No. 1,292,162; Jan. 21; v. 258; p. 571.
- Van Antwerp, Clarence B., Chicago, Ill. Electric candle. No. 1,321,495; Nov. 11; v. 268; p. 279.
- Van Arsdale, George D., and C. G. Maier, New York, N. Y. Extracting manganese and making sulfuric acid and manganese dioxide. No. 1,304,222; May 20; v. 262; p. 390.
- Van Arsdale, George D., and C. G. Maier, New York, N. Y. Flotation method. No. 1,325,817; Dec. 23; v. 269; p. 611.
- Van Barneveld, Charles E. (See Leaver, Edmund S., assignor.)
- Van Beck, Joseph, Barton, Wis. Sleight-runner knee. No. 1,293,581; Feb. 4; v. 259; p. 141.
- Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Stackers for slicing machines. No. 1,290,425; Jan. 7; v. 258; p. 99.
- Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Sharpener for slicing machines. No. 1,291,285; Jan. 14; v. 258; p. 327.
- Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Stack-former for slicing machines. No. 1,310,261; July 15; v. 264; p. 480.
- Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Stack-spacer for slicing machines. No. 1,310,262; July 15; v. 264; p. 481.
- Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Clamp for slicing machines. No. 1,315,751; Sept. 9; v. 266; p. 241.
- Van Berkel, Wilhelmus A., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, Laporte, Ind. Sharpener for slicing machines. No. 1,291,286; Jan. 14; v. 258; p. 328.
- Van Bloem, Paul S., New York, N. Y. Illuminated sign. No. 1,311,472; July 29; v. 264; p. 769.
- Van Borkum, John A., assignor of one-third to R. H. Armstrong, Beatrice, and one-sixth to J. W. Richison, Fanbury, Nebr. Egg-transferrer. No. 1,306,290; June 10; v. 263; p. 232.
- Van Briggie, Libburn H., Indianapolis, Ind. Carbureter. No. 1,304,418; May 20; v. 262; p. 428.
- Van Briggie, Libburn H., Indianapolis, Ind. Carbureter. (Reissue.) No. 14,771; Dec. 16; v. 269; p. 535.
- Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Mechanical stoker. No. 1,309,344; July 8; v. 264; p. 275.
- Van Brunt, Willard A., Los Angeles, Calif. Bearing for ground-working disks. No. 1,301,339; Apr. 22; v. 261; p. 688.
- Van Buren, Jafew S., Albany, N. Y. Combined coal and gas range. No. 1,296,237; Mar. 4; v. 260; p. 96.
- Van Buren, Robert W., White Plains, N. Y. Support. No. 1,294,729; Feb. 18; v. 259; p. 475.
- Van Buskirk, John S., et al. (See Kendrick, William D., assignor.)
- Van Cleve, Allan P., et al. (See Bailey, William B., assignor.)
- Van Cordt, Gabriel, assignor to Societe Anonyme des Usines Giulini, Basel, Switzerland. Increasing the hardness and tenacity of metals and the ease of their working with cutting-tools. No. 1,326,775; Dec. 30; v. 269; p. 827.
- Van Cott, Frank J., Unadilla, N. Y. Clamp. No. 1,296,883; Mar. 11; v. 260; p. 277.
- Van Cott, Frank J., Unadilla, N. Y. Silo. No. 1,301,624; Apr. 22; v. 261; p. 741.
- Van Cott, Frank J., Unadilla, N. Y. Saddle for anchoring cables for silos and the like. No. 1,311,141; July 22; v. 264; p. 674.
- Van de Myer, Frank V., New York, N. Y. Diaphragm for talking-machines. No. 1,291,663; Jan. 14; v. 258; p. 417.
- Van Deman, A. N. (See Kramer, Anders, assignor.)
- Van den Beld, Casper M. B., Tilburg, Netherlands. Sighting of guns. No. 1,316,401; Sept. 16; v. 266; p. 377.
- Van den Heuvel, Mathijs. (See Diks and Van den Heuvel.)
- Van den Heuvel, William, Los Angeles, Calif. Combination traveling-crane cableway. No. 1,325,818; Dec. 23; v. 269; p. 611.
- Van der Bijl, Hendrik J., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Radio transmission. No. 1,301,525; Apr. 22; v. 261; p. 723.
- Van der Meulen, Sybrandus L., Leeuwarden, Netherlands. Apparatus for grinding facets of a predetermined width on glass plates. No. 1,310,263; July 15; v. 264; p. 481.
- Van Derbeck, Stephen G., Hackensack, N. J., assignor to Ko Ko Mat Co., Inc., New York, N. Y. Self-locking mat. No. 1,304,518; May 20; v. 262; p. 448.
- Van Deuren, Pierre, Calais, A. Delas, and M. Leblanc, Paris, assignors to Societe Anonyme pour l'Exploitation des Procédés Westinghouse Leblanc, Paris, France. Mortar or cannon and projectile adapted for use therewith. No. 1,307,384; June 24; v. 263; p. 498.
- Van Deussen, William A., Cleveland, Ohio. Flushing apparatus. No. 1,308,382; July 1; v. 264; p. 68.
- Van Dynter, George F., Aurora, Ill. Hooded trolley-track and bracket. (Reissue.) No. 14,772; Dec. 16; v. 269; p. 535.
- Van Deventer, Harry R., Sumter, S. C., assignor to Splittdorf Electrical Company, Newark, N. J. Governor for gas-engines or the like. No. 1,319,256; Oct. 21; v. 267; p. 391.
- Van Deventer, Harry R., Sumter, S. C., assignor to Splittdorf Electrical Company, Newark, N. J. Combination generator, light, and horn. No. 1,325,425; Dec. 16; v. 269; p. 520.
- Van Dolsen, Emmet L., assignor to L. A. Young Industries, Inc., Detroit, Mich. Auto-power device. No. 1,326,229; Dec. 30; v. 269; p. 724.
- Van Doorn, Frank E., Quincy, Ill. Shell for deposit-boxes. No. 1,323,560; Dec. 2; v. 269; p. 64.
- Van Dorn Electric Tool Company, The. (See Sweet, Burton W., assignor.)
- Van Dorn, Herbert E., Chicago, Ill. Car-coupling. No. 1,306,040; June 10; v. 263; p. 183.
- Van Dorn, William E., Chicago, Ill. Tractor. No. 1,302,607; May 6; v. 262; p. 23.
- Van Dresar, Elmer L., St. Paul, Minn. Train-dragging device. No. 1,297,521; Mar. 13; v. 260; p. 444.
- Van Dresar, Elmer L., St. Paul, Minn., assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 1,311,303; July 29; v. 264; p. 737.
- Van Dunker, Charles L., San Antonio, Tex. Basin-protector. No. 1,297,613; Mar. 18; v. 260; p. 464.
- Van Dusen, Jacob R., Buffalo, N. Y. Container. No. 1,319,814; Oct. 28; v. 267; p. 520.
- Van Dyke, Frederick, Detroit, Mich. Lubricating attachment for thread-cutting dies. No. 1,294,851; Feb. 18; v. 259; p. 504.
- Van Dyke, Jesse P., Seattle, Wash. Fountain blacking-brush. No. 1,294,205; Feb. 11; v. 259; p. 318.



## Alphabetical list of patentees—Continued.

- Van Dyke, John, Kalamazoo, Mich. Gas-stove. No. 1,297,119; Mar. 11; v. 260; p. 330.
- Van Dyke, Thomas H., Kansas City, Mo. Variable-stroke operating mechanism for engines. No. 1,307,167; June 17; v. 263; p. 425.
- Van Etten, Irving L., New York, N. Y. Folding coat-rack. No. 1,292,931; Jan. 28; v. 258; p. 775.
- Van Evera, Dewitt, Chicago, Ill. Hot-air register and attachment. No. 1,293,582; Feb. 4; v. 259; p. 141.
- Van Eyk, John C. (See Stapper and Van Eyk.)
- Van Gemert, Cornelius, Albion, Iowa. Cultivator attachment. No. 1,303,810; May 13; v. 262; p. 276.
- Van Guelpen, Louis J., Cincinnati, Ohio. Burnishing-machine. No. 1,300,059; Apr. 8; v. 261; p. 354.
- Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fire-extinguishing pump. No. 1,320,512; Nov. 4; v. 268; p. 29.
- Van Heusen, Charles M., Albany, N. Y. Chime attachment for telephone signal-boxes. No. 1,307,466; June 24; v. 263; p. 513.
- Van Heusen, Charles M., Albany, N. Y. Chime attachment for telephone signal-boxes. No. 1,307,467; June 24; v. 263; p. 514.
- Van Heusen, John M., Boston, Mass. Collar. No. 1,297,937; Mar. 18; v. 260; p. 533.
- Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,307,425; June 24; v. 263; p. 505.
- Van Heusen, John M., Boston, Mass. Collar. No. 1,309,378; July 8; v. 264; p. 281.
- Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,309,379; July 8; v. 264; p. 281.
- Van Heusen, John M., Boston, Mass. Collar. No. 1,309,380; July 8; v. 264; p. 281.
- Van Heusen, John M., Boston, Mass. Collar. No. 1,309,381; July 8; v. 264; p. 281.
- Van Hook, Collins, Knoxville, Tenn. assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,299,636; Apr. 8; v. 261; p. 260.
- Van Horn, William H. (See Kemp and Van Horn.)
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Lubricating device for dough-hoppers. No. 1,293,256; Feb. 4; v. 259; p. 65.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Oiler for dough-divider cylinders. No. 1,314,170; Aug. 26; v. 265; p. 522.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Apparatus for cutting and shaping lumps of dough. No. 1,317,742; Oct. 7; v. 267; p. 15.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Machine for spacing lumps of dough. No. 1,319,190; Oct. 21; v. 267; p. 379.
- Van Kannel, Theophilus, Yardville, N. J. Artificial-limb socket. No. 1,305,573; June 3; v. 263; p. 65.
- Van Keuren, William L., North Bergen, N. J., assignor to General Electric Company. Incandescent lamp. No. 1,301,079; Apr. 15; v. 261; p. 601.
- Van Keuren, William L., North Bergen, N. J., assignor to General Electric Company. Lamp manufacture. No. 1,326,121; Dec. 23; v. 269; p. 667.
- Van Kriegsfield, Oscar, assignor to Crawford Tool & Manufacturing Company, Chicago, Ill. Toy. No. 1,320,362; Oct. 28; v. 267; p. 622.
- Van Kuren, Stephen J., assignor to J. G. Cherry Company, Cedar Rapids, Iowa. Apparatus for pasteurizing, cooling, and ripening milk, cream, and other liquids. No. 1,319,916; Oct. 28; v. 267; p. 539.
- Van Kuren, Stephen J., assignor to J. G. Cherry Company, Cedar Rapids, Iowa. Safety-guard for factory-churns. No. 1,321,575; Nov. 11; v. 268; p. 293.
- Van Leuven, Aloysius P., The Hague, Netherlands. Bicycle-saddle. No. 1,290,426; Jan. 7; v. 258; p. 99.
- Van Loon, Earl H., assignor, by mesne assignments, of one-half to W. V. Nelson, New York, N. Y. Electric pull-switch. No. 1,306,672; June 10; v. 263; p. 302.
- Van Loozen, Fred H., Cleveland, Ohio. Armored tire. No. 1,322,739; Nov. 25; v. 268; p. 614.
- Van Lynden, Robert A. (See De Lange and Van Lynden.)
- Van Lynden, Robert A., Utrecht, Netherlands, assignor to Naamlooze Vennootschap de Nederlandsche Thermotelefoon Maatschappij, Utrecht, Netherlands. Auxiliary device for the etching of arch-shaped Wollaston wires for the heat-conductors of thermic telephones. No. 1,305,240; May 27; v. 262; p. 622.
- Van Lynden, Robert A. B., Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Thermic telephone. No. 1,312,504; Aug. 5; v. 265; p. 122.
- Van Meter, George F., Indianapolis, Ind. Automatic controller for air-brake emergency-valves. No. 1,303,743; May 13; v. 262; p. 264.
- Van Meter, John N., Norton, assignor of one-third to F. S. Hazelton and one-third to F. W. Kidder, Norton county, Kans. Drain-cock. No. 1,296,239; Mar. 4; v. 260; p. 96.
- Van Ness, John L., assignor to Wichert & Gardiner, Brooklyn, N. Y. High heel for shoes. No. 1,293,992; Feb. 11; v. 259; p. 268.
- Van Ness, Marvin B., Welsh, La. Well-strainer. No. 1,291,288; Jan. 14; v. 258; p. 328.
- Van Nest, Raymond H. (See Tower and Van Nest.)
- Van Noort, Cornelius, and F. Visser, Paterson, N. J. Resilient wheel. No. 1,299,876; Apr. 8; v. 261; p. 315.
- Van Norman, Charles E., Springfield, Mass. Grinding-machine. No. 1,303,744; May 13; v. 262; p. 264.
- Van Nort, James L., Los Angeles, Calif. Wheel-cultivator. No. 1,307,327; June 17; v. 263; p. 454.
- Van Note, Eugene, Trenton, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Paper-feed attachment for type-writers. No. 1,298,834; Apr. 1; v. 261; p. 51.
- Van Nuys, Claude C. (See Roberts and Van Nuys.)
- Van Osdel, William J., assignor of one-half to L. Sperling, Chicago, Ill. Hair-cutter. No. 1,321,496; Nov. 11; v. 268; p. 279.
- Van Pelt, Harry J., Newark, N. J. Sounding toy. No. 1,291,289; Jan. 14; v. 258; p. 328.
- Van Pelt, John B., Peoria, assignor of one-fourth to F. W. Volker and one-fourth to A. E. Volker, Macomb, Ill. Grain-weigher. No. 1,308,882; July 8; v. 264; p. 188.
- Van Raalten, Cernelis D., Gempolkrep, Modjokerto, Java. Press in particular for sugar-cane or the like. No. 1,326,231; Dec. 30; v. 269; p. 724.
- Van Riper, John C., Jr., and S. A. Pritschau, assignors to Banner Gas Range Works, South Bend, Ind. Combination coal and gas range. No. 1,307,713; June 24; v. 263; p. 557.
- Van Ripper, Oscar, Hope, Ark. Boll-weevil catcher. No. 1,309,556; July 8; v. 264; p. 314.
- Van Sicklen Company, The. (See Prouty, Theodore C., assignor.)
- Van Slyke, Frederick E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining-machine. No. 1,292,543; Jan. 28; v. 258; p. 683.
- Van Slyke, Leland M., Chewelah, Wash. Wood sawing and splitting machine. No. 1,307,714; June 24; v. 263; p. 557.
- Van Strait, Brees, Buffalo, N. Y. Grain-car door. No. 1,320,297; Oct. 28; v. 267; p. 610.
- Van Swaay, Gerardus J., Delft, and H. I. Keus, Hengelo, Netherlands. Regulation of the voltage or current in alternating electric distributing systems. No. 1,321,342; Nov. 11; v. 268; p. 250.
- Van Tassel, John R., assignor to The Standard Optical Company, Geneva, N. Y. Lens-mounting for eyeglasses. No. 1,299,068; Apr. 1; v. 261; p. 104.
- Van Tilburg, Frank E., Minneapolis, Minn. Apparatus for separating composite oils. No. 1,326,230; Dec. 30; v. 269; p. 724.
- Van Valkenburg, Harold A., Oakland, Calif. Foot-pedal for automobiles. No. 1,309,557; July 8; v. 264; p. 314.
- Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Magnetically-controlled switch. No. 1,297,979; Mar. 18; v. 260; p. 543.
- Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Controller for electric gear-shifts. No. 1,316,123; Sept. 16; v. 266; p. 324.
- Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Motor-starter. No. 1,319,191; Oct. 21; v. 267; p. 379.
- Van Valkenburg, John J., Atlin, British Columbia, Canada. Shovel attachment. No. 1,307,328; June 17; v. 263; p. 454.
- Van Valkenburg, Levi D., Holyoke, Mass. Pen-retainer. No. 1,316,069; Sept. 16; v. 266; p. 315.
- Van Valkenburg, Levi D., Holyoke, Mass. Lever pen-retainer. No. 1,316,070; Sept. 16; v. 266; p. 315.
- Van Viersen, Jacob H., The Hague, Netherlands. Joining up electric and other wires. No. 1,297,614; Mar. 18; v. 260; p. 464.
- Van Vleck, Charles E. (See Spohrer, Gregory J., assignor.)
- Van Volkenburg, Fredrick H., Elko, Nev. Bed or cot. No. 1,304,419; May 20; v. 262; p. 429.
- Van Voorhis, Norman, Rochester, N. Y. Combination gas and coal range. No. 1,308,970; July 8; v. 264; p. 205.
- Van Wormer, George, assignor of one-half to J. Kaefar, Hamilton, Ohio. Pen-clamp for ruling-machines. No. 1,314,916; Sept. 2; v. 266; p. 82.
- Van Zandt, Newton. (See Monsen, Adolph, assignor.)
- Van Zandt, Paul C., Chicago, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Roll-crusher. No. 1,309,827; July 15; v. 264; p. 401.
- Vanalst, Shannon L., Doughty, British Columbia, Canada. Pencil-sharpener. No. 1,326,249; Dec. 30; v. 269; p. 761.
- Vance, Charles E., and J. A. Vetter, Pittsburgh, Pa. Packing and manufacturing the same. No. 1,295,241; Feb. 25; v. 259; p. 616.
- Vance, Retta H., San Francisco, Calif. Mosquito-foil for beds. No. 1,303,619; May 13; v. 262; p. 241.
- Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Co., Chicago, Ill. Combination-locker. No. 1,307,712; June 24; v. 263; p. 557.
- Vance, William L., Chicago, Ill. Game. No. 1,296,882; Mar. 11; v. 260; p. 276.
- Vander Hoof, Charles E. (See Gilbert and Vander Hoof.)
- Vanderbilt, Farley D., Seneca Falls, N. Y., assignor to Marseilles Company, Moline, Ill. Fertilizer-distributor. No. 1,300,791; Apr. 15; v. 261; p. 537.



- Vanderhoff, Paul W., Topeka, Kans. Direction-signaling mechanism for motor-vehicles. No. 1,303,422; May 13; v. 262; p. 205.
- Vanderhoff, Paul W., Topeka, Kans. Switch for motor-vehicle signaling devices. No. 1,303,423; May 13; v. 262; p. 205.
- Vanderhoof, Roy C., Ocean Grove, N. J. Bathing or washing attachment for infants. No. 1,296,238; Mar. 4; v. 260; p. 96.
- Vanderley, Cornelius L., San Francisco, Calif. Bearing-support. No. 1,323,662; Dec. 2; v. 269; p. 82.
- Vanderlip, Louis C., Elkhart, Ind. Pneumatic-conveyer hopper. No. 1,312,816; Aug. 12; v. 265; p. 214.
- Vandermyde, Louis J., Morrison, Ill. Indicating means. No. 1,293,991; Feb. 11; v. 259; p. 268.
- Vanderploeg, Henry, Chicago, Ill. Wire spring. No. 1,291,287; Jan. 14; v. 258; p. 328.
- Vanderveer, David E., Los Angeles, Calif. Automobile-curtain window. No. 1,320,998; Nov. 4; v. 268; p. 121.
- Vanderveer, Jewell W., and W. L. Lynch, Liverpool, N. Y. Bark-rossing machine. No. 1,306,869; June 17; v. 263; p. 371.
- Vandervell, Charles A. (See Midgley, Albert H., assignor.)
- Vandervoort, Milford T., assignor of one-half to J. M. Wright, Grand Rapids, Mich. Automatic vacuum closing-valve. No. 1,302,104; Apr. 29; v. 261; p. 864.
- Vanderwilt, Harry, Solomon, Kans. Plowshare. No. 1,318,621; Oct. 14; v. 267; p. 245.
- Vane, Harry, and N. Britton, Cincinnati, Ohio. Portable stair-router. No. 1,318,622; Oct. 14; v. 267; p. 245.
- Vannote, Howard B., Hasbrouck Heights, and S. A. Neidich, Edgewater Park, N. J. Machine for rewinding paper and other fabrics. No. 1,294,576; Feb. 18; v. 259; p. 439.
- Vannoy, Jackson. (See Hobson and Vannoy.)
- Vanorio, Joseph. (See Rapp and Vanorio.)
- Vansant, George. (See Hicks, Linzy, assignor.)
- Vansteenberg, Edward F., Chicago, Ill. Operating mechanism for hopper-car doors. No. 1,292,163; Jan. 21; v. 258; p. 572.
- Vanstory, William J., Rienzi, Miss. Mowing-machine cutter. No. 1,322,977; Nov. 25; v. 263; p. 659.
- Vapor Car Heating Company. (See Cooley, Roswell P., assignor.)
- Vapor Car Heating Company. (See Schreiber, Edward A., assignor.)
- Vara, Joseph C., Buffalo, N. Y. Sash-fastener. No. 1,310,313; July 15; v. 264; p. 489.
- Varcoe, Earl V., Philadelphia, Pa. Water-tube boiler. No. 1,302,458; Apr. 29; v. 261; p. 932.
- Varden, Helmer, Stavanger, Norway. Driving-belt. No. 1,321,686; Nov. 11; v. 268; p. 314.
- Varder, Holger, New York, N. Y. Train-bumper. No. 1,318,033; Oct. 7; v. 267; p. 71.
- Vargha, Zsuzsana, McKeesport, Pa. Combination white-wash-brush. No. 1,293,257; Feb. 4; v. 259; p. 65.
- Variable Pumps and Motors Limited. (See Carey and Todd, assignors.)
- Variety Manufacturing Company. (See Gervais, Wainwright B., assignor.)
- Varley Duplex Magnet Company. (See Anderson, James C., assignor.)
- Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
- Varley, Edmund, Pietermaritzburg, Natal, South Africa. Book-posting device. No. 1,304,223; May 20; v. 262; p. 390.
- Varley, Richard, Englewood, N. J. X-ray system. No. 1,309,494; July 8; v. 264; p. 302.
- Varley, Richard, Englewood, N. J. Electrical switch. No. 1,319,979; Oct. 28; v. 267; p. 551.
- Varley, Richard, Englewood, assignor to Varley Duplex Magnet Company, Jersey City, N. J. Ignition system. No. 1,314,720; Sept. 2; v. 266; p. 47.
- Varma, Phuldeo S. (See Datta and Varma.)
- Varner, Dana P., Baltimore, Md. Cooking utensil. No. 1,297,938; Mar. 18; v. 260; p. 534.
- Varney, Manfred D., New York, N. Y. Scale bearing device. No. 1,302,884; May 6; v. 262; p. 77.
- Varvel, Sidney L., assignor to W. A. Windeyer, R. J. Vincent, and H. J. Davys, Sidney, New South Wales, Australia. Rubber-tire-repair vulcanizer. No. 1,295,643; Feb. 25; v. 259; p. 709.
- Varvitsiotis, Pericles A., St. Paul, Minn. Moistener. No. 1,319,023; Oct. 14; v. 267; p. 322.
- Varwig, Harry, and F. Caldwell, Cincinnati, Ohio. Shoe-heel fastener. No. 1,297,423; Mar. 18; v. 260; p. 423.
- Vas Dias, Joseph, Amsterdam, Netherlands. Suspension-border for show-cards, maps, almanacs, and the like. No. 1,309,319; July 8; v. 264; p. 271.
- Vastine, Ray P., assignor to Reordway Manufacturing and Sales Co., Chicago, Ill. Gage-glass illuminator. No. 1,293,993; Feb. 11; v. 259; p. 269.
- Vathing, Solvie S., and E. O. Laugen, Houston, Minn. Gage-runner for planters. No. 1,318,419; Oct. 14; v. 267; p. 206.
- Vauclain, Andrew C., Philadelphia, Pa. Vehicle-wheel. No. 1,293,994; Feb. 11; v. 259; p. 269.
- Vaudreuil, Edward J., Eau Claire, Wis. Machine for preparing vegetables. No. 1,304,719; May 27; v. 262; p. 524.
- Vaudreuil, John, Milwaukee, Wis. Door-latch. No. 1,298,266; Mar. 25; v. 260; p. 630.
- Vaudreuil, John, assignor to Sanitary Dish Washing Machine Company, Milwaukee, Wis. Dish-washing machine. No. 1,314,622; Sept. 2; v. 266; p. 28.
- Vaughan, Archie M., Richmond, Va. Frame for filter-papers. No. 1,322,378; Nov. 18; v. 268; p. 495.
- Vaughan, Edgar A., San Antonio, Tex. Fuel-heater for internal-combustion engines. No. 1,298,835; Apr. 1; v. 261; p. 51.
- Vaughan, Harry L., Chicago, Ill. Key-ring. No. 1,296,718; Mar. 11; v. 260; p. 238.
- Vaughan, Harry L., Chicago, Ill. Bottle-carrier. No. 1,307,067; June 17; v. 263; p. 408.
- Vaughan, Harry W., San Francisco, Cal. Attachment to bevel-squares. No. 1,292,164; Jan. 21; v. 258; p. 572.
- Vaughan, Henry H., Montreal, Quebec, Canada. System of heat generation and distribution for railway-cars. No. 1,311,783; July 29; v. 264; p. 826.
- Vaughan, James C. (See Miller, Joseph W., assignor.)
- Vaughan, Robert. (See Stewart, Blaylock, Vaughan, and Batchelder.)
- Vaughan, Walter D., Clarendon, Vt. Brush-puller. No. 1,300,897; Apr. 15; v. 261; p. 560.
- Vaughn, John L., San Francisco, Calif. Combination needle magazine feeder and director. No. 1,316,932; Sept. 23; v. 266; p. 525.
- Vaughn, Louis K., Woodland, Cal. Nut hulling and cracking machine. No. 1,294,852; Feb. 18; v. 259; p. 505.
- Vaughn Manufacturing Company. (See Vaughn, Timothy C., assignor.)
- Vaughn, Patrick H., Morris, Minn. Grain-separator. No. 1,321,263; Nov. 11; v. 268; p. 234.
- Vaughn, Timothy C., Morris, Minn. Grain-separator. No. 1,325,219; Dec. 16; v. 269; p. 483.
- Vaughn, Timothy C., assignor to Vaughn Manufacturing Company, Morris, Minn. Grain-separator. No. 1,306,870; June 17; v. 263; p. 371.
- Vaught, Thomas J., Wichita, Kans. End-gate. No. 1,326,233; Dec. 30; v. 269; p. 725.
- Vautin, Claude T. J., assignor to Thermalloy Limited, London, England. Incendiary projectile. No. 1,316,005; Sept. 16; v. 266; p. 304.
- Vautin, Claude T. J., assignor to Thermalloy Limited, London, England. Ignitable metallic mixture and preparing the same. No. 1,318,709; Oct. 14; v. 267; p. 261.
- Vawter, John T., Los Angeles, Calif. Rotary engine. No. 1,303,134; May 6; v. 262; p. 125.
- Veal, Austin, Langenburg, Saskatchewan, Canada. Halter. No. 1,325,061; Dec. 16; v. 269; p. 453.
- Veale, C. H., et al. (See Key, Emmett M., assignor.)
- Vecchio, Luigi, Albany, N. Y. Electric fuse. No. 1,317,838; Oct. 7; v. 267; p. 34.
- Veck, Max, La Fayette, Pa. Brush. No. 1,296,719; Mar. 11; v. 260; p. 239.
- Veeder, Curtis H., Hartford, Conn. Indicator for magazine-guns. No. 1,326,234; Dec. 30; v. 269; p. 725.
- Veerac Company. (See Merrill, Frank H., assignor.)
- Vegh, Michael, Bridgeport, Conn. Milk-boiler. No. 1,322,846; Nov. 25; v. 268; p. 634.
- Veid, Louis, Fireco, W. Va. Rail-fastening means. No. 1,304,828; May 27; v. 262; p. 545.
- Veigel, Albert E., Cleveland, Ohio. Electric door-switch. No. 1,326,380; Dec. 30; v. 269; p. 752.
- Veitch, Frederick J., New York, N. Y. Letter-paper having envelop attachment. No. 1,319,440; Oct. 21; v. 267; p. 426.
- Veith, George. (See Sayre, James W., assignor.)
- Velle Motors Corporation. (See Szekely, Otto E., assignor.)
- Velilla M., Gildardo, Progreso, Yucatan, Mexico. Dental appliance. No. 1,313,031; Aug. 12; v. 265; p. 256.
- Velk, Joseph, Milwaukee, Wis. Tap and die chuck. No. 1,290,427; Jan. 7; v. 258; p. 99.
- Velo, Anthony, Washington, D. C., assignor of one-third to E. S. Clark, Garden City, N. Y., and one-third to C. C. Hines, Washington, D. C. Aerial torpedo. No. 1,309,708; July 15; v. 264; p. 379.
- Velox Vise Co. (See Fulton, Edwin W., assignor.)
- Velton, E. B., et al. (See Key, Emmett M., assignor.)
- Velton, William H., assignor of one-half to G. H. Staiger, Ray, Ariz. Automobile-headlight. No. 1,319,815; Oct. 28; v. 267; p. 520.
- Veluard, Andre, Philadelphia, Pa. Loom for weaving and cutting pile fabrics. No. 1,300,306; Apr. 15; v. 261; p. 434.
- Veluard, Andre, Philadelphia, Pa. Pile-cutting device for use in looms for weaving pile fabrics. No. 1,303,620; May 13; v. 262; p. 241.
- Veluard, Andre, Philadelphia, Pa. Pile-cutting mechanism for looms. No. 1,314,917; Sept. 2; v. 266; p. 82.
- Veluard, Andre, Philadelphia, Pa. Pile-cutting mechanism for looms. No. 1,322,657; Nov. 25; v. 268; p. 599.
- Venable, Joseph C., East St. Louis, Ill. Emergency angle-coupling for broken train-lines. No. 1,304,126; May 20; v. 262; p. 372.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw Steel Construction Company. Excavating-bucket. No. 1,308,150; July 1; v. 264; p. 26.



## Alphabetical list of patentees—Continued.

- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Transferring and unloading apparatus. No. 1,311,195; July 29; v. 264; p. 717.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Cableway-carriage. No. 1,322,074; Nov. 18; v. 268; p. 437.
- Venango Knitting Mills. (See Feig, Curt, assignor.)
- Vender, Carl, Kenosha, Wis. Automobile land-torpedo. No. 1,297,939; Mar. 18; v. 260; p. 534.
- Venhuizen, John, Holland, Mich. Corn-harvester. No. 1,293,583; Feb. 4; v. 259; p. 141.
- Venn, George F., Ottawa, Ontario, Canada. Protector for electric lamps. No. 1,292,883; Jan. 21; v. 258; p. 623.
- Venning, Frank J., Cincinnati, Ohio. Track-grinding machine. No. 1,305,954; June 3; v. 263; p. 138.
- Ventilator Fan Co., The. (See Kohn, Milton M., assignor.)
- Venus Manufacturing Company. (See Milkes, Leah G., assignor.)
- Veomelt, George A., Rochester, N. Y. Sanitary cover for vibrator attachments. No. 1,291,290; Jan. 14; v. 258; p. 329.
- Ver Planck, William E., Erie, Pa., assignor to General Electric Company. Supporting means for engines. No. 1,295,644; Feb. 25; v. 259; p. 709.
- Ver Planck, William E., and H. W. Stock, Erie, Pa., assignors to General Electric Company. Internal-combustion engine. No. 1,298,605; Mar. 25; v. 260; p. 701.
- Verderber, Herman. (See Verderber, Joseph, assignor.)
- Verderber, Joseph, assignor of one-half to H. Verderber, Cleveland, Ohio. Universal jig. No. 1,322,978; Nov. 25; v. 268; p. 659.
- Verduso, Thomas, assignor of one-fourth to W. H. Estabrook, Monterey, Calif. Umbrella. No. 1,299,877; Apr. 8; v. 261; p. 315.
- Vergara, Bartolome, Mexico, Mexico. Cutter for perforating music-sheets. No. 1,305,323; June 3; v. 263; p. 18.
- Vergen, Carl F., Denver, Colo. Tool for applying and removing antiskid-chains from tires. No. 1,294,206; Feb. 11; v. 259; p. 319.
- Vermont Farm Machine Company, The. (See Kimball, Perley L., assignor.)
- Vermont, Gilbert J. L., Flint, Mich. Syringe. No. 1,317,839; Oct. 7; v. 267; p. 34.
- Vernam, Gilbert S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Secret signaling system. No. 1,310,719; July 22; v. 264; p. 595.
- Verner, James F., assignor to H. C. Anderson, Toronto, Ontario, Canada. Aeroplane control. No. 1,304,420; May 20; v. 262; p. 429.
- Vernier, George E. (See Cullen, Ernest E., assignor.)
- Verran, Harry, and A. R. Groetz, Minneapolis, Minn. Advertising device. No. 1,321,863; Nov. 18; v. 268; p. 399.
- Verrette, James J., and A. W. White, Odanah, Wis. Timber-tongs. No. 1,307,887; June 24; v. 263; p. 589.
- Vert, Jesse F., assignor of one-half to G. F. Thompson, Malta, Mont. Sewer-trap. No. 1,312,711; Aug. 12; v. 265; p. 193.
- Verwys, Abraham, Grand Rapids, Mich. Mechanic's gage. No. 1,296,720; Mar. 11; v. 260; p. 239.
- Vesely, Joseph N., Cedar Rapids, Iowa. Locking device for motor-vehicles. No. 1,291,291; Jan. 14; v. 258; p. 329.
- Vessey, Frank D., Kellogg, Idaho. Wheelbarrow. No. 1,298,126; Mar. 25; v. 260; p. 599.
- Vest, Eugene W., St. Louis, Mo. Gas-burner for furnaces, stoves, and ranges. No. 1,325,456; Dec. 16; v. 269; p. 525.
- Vest, Eugene W., St. Louis, Mo. Valve for gas-burners of furnaces, stoves, and ranges. No. 1,325,457; Dec. 16; v. 269; p. 526.
- Vest, Eugene W., St. Louis, Mo. Gas-burning system for furnaces, heating-stoves, ranges, &c. No. 1,325,492; Dec. 16; v. 269; p. 532.
- Vesta Accumulator Company. (See Angell, Chester M., assignor.)
- Vesta Accumulator Company. (See Perry, Lee J., assignor.)
- Vesuvius Heating Corporation. (See Philippi, Jacob, assignor.)
- Vetter, Albert, Toledo, Ohio. Automobile-top. No. 1,299,637; Apr. 8; v. 261; p. 260.
- Vetter, Clarence A., Pittsburgh, Pa. Attachment-plug. No. 1,299,271; Apr. 1; v. 261; p. 149.
- Vetter, Clarence A., assignor to Best Electric Company, Pittsburgh, Pa. Separable plug. No. 1,322,075; Nov. 18; v. 268; p. 437.
- Vetter, John A. (See Vance and Vetter.)
- Vetter, Joseph, Toledo, Ohio. Automobile-top. No. 1,298,836; Apr. 1; v. 261; p. 51.
- Vetter, Joseph, Toledo, Ohio. Top-frame for automobiles. No. 1,310,264; July 15; v. 264; p. 481.
- Vettermann, Otto C., Pingree Grove, Ill. Grass-destrating machine. No. 1,293,584; Feb. 4; v. 259; p. 142.
- Vezina, George. (See White and Vezina.)
- Vezina, Joseph R. (See Britcher and Vezina.)
- Viall, Ethan. (See Suverkrop and Viall.)
- Vibration Specialty Company. (See Akimoff, Nicholas W., assignor.)
- Vibration Specialty Company. (See Myers, Carlind E., assignor.)
- Vibromotor Specialties Co. (See Mansbendel, Fritz P., assignor.)
- Vicic, John. (See Sandberg and Vicic.)
- Vick, Henry, Chicago, Ill. Boiler circulating device. No. 1,292,932; Jan. 28; v. 258; p. 775.
- Vickers, George, Dayton, Ohio. Gambrel. No. 1,311,361; July 29; v. 264; p. 748.
- Vickers Limited. (See Buckham, George T., assignor.)
- Vickers Limited. (See Challenger, George H., assignor.)
- Vickers Limited. (See Challenger and Savage, assignors.)
- Vickers Limited. (See Dawson and Buckham, assignors.)
- Vickers Limited. (See Dawson and Horne, assignors.)
- Vickers Limited. (See Duncan, Thomas S., assignor.)
- Vickers Limited. (See Elia, Giovanni E., assignor.)
- Vickers Limited. (See Etchells and Stedman, assignors.)
- Vickers Limited. (See Francis, Charles E., assignor.)
- Vickers Limited. (See Huber, James, assignor.)
- Vickers Limited. (See Huber and Indahl, assignors.)
- Vickers Limited. (See Johnson, F. G. L., assignor.)
- Vickers Limited. (See Johnson, Frederick G. L., assignor.)
- Vickers Limited. (See Lander, Frank E., assignor.)
- Vickers Limited. (See McKechnie, James, assignor.)
- Vickers Limited. (See McKechnie and Pratt, assignors.)
- Vickers Limited. (See McKechnie and Wallis, assignors.)
- Vickers Limited. (See North, Thomas K., assignor.)
- Vickers Limited. (See Torazzi, Mario F., assignor.)
- Vickers Limited. (See Watt, George E., assignor.)
- Vickers Limited. (See Webb, George W. C., assignor.)
- Vickery, Charles H., Attica, N. Y. Ventilator. No. 1,322,847; Nov. 25; v. 268; p. 634.
- Vickery, Frederick W., London, England. Fuse for projectiles. No. 1,309,709; July 15; v. 264; p. 380.
- Victor Adding Machine Co. (See Johantgen, Oliver D., assignor.)
- Victor, Alexander F., Davenport, Iowa. Framing mechanism. No. 1,322,658; Nov. 25; v. 268; p. 699.
- Victor Brass Manufacturing Company, The. (See Lyons, Joseph H., assignor.)
- Victory Corset and Girdle Co. (See Metz, Samuel T., assignor.)
- Victor, Frank, Ridgway, Pa. Detachable shoe-sole. No. 1,318,247; Oct. 7; v. 267; p. 113.
- Victor Last Company. (See Mason, Samuel C., assignor.)
- Victor Talking Machine Company. (See La Rue, William D., assignor.)
- Victor Talking Machine Company. (See Royal, Belford G., assignor.)
- Victor Talking Machine Company. (See Squibb, Lloyd Y., assignor.)
- Victor Talking Machine Company. (See Winans, Daniel M., assignor.) (Reissue.)
- Victor Typewriter Company. (See Hagerstrom, John A., assignor.)
- Victory Bottle Capping Machine Co. Inc. (See Oliver, Ernest A., assignor.)
- Victory Piston Ring Mfg. Co. (See Williams, Nolan S., assignor.)
- Vieau, Cassimir J. (See Wagner, Hormel, and Vieau.)
- Viens, Ephrem, Britannia Heights, Nepean township, Ontario, Canada. Composite building material. No. 1,314,772; Sept. 2; v. 266; p. 56.
- Vierengel, Matthew, Brooklyn, N. Y. String-fastener for containers. No. 1,294,324; Feb. 11; v. 259; p. 346.
- Vierengel, Matthew, Brooklyn, N. Y. Envelop. No. 1,302,885; May 6; v. 262; p. 78.
- Vierling, Frank J., Minneapolis, Minn. Pencil. No. 1,317,743; Oct. 7; v. 267; p. 16.
- Vierling, George E., Des Moines, Iowa. Coffee-percolator. No. 1,302,483; Apr. 29; v. 261; p. 937.
- Viertel, Hermann. (See Buchwald, Queisser, and Viertel.)
- Viets, Henry Y., Maddock, N. D. Supporting attachment for neck-yokes. No. 1,302,608; May 6; v. 262; p. 24.
- Viger, Theodore D., Port Chester, N. Y. Rail-joint. No. 1,307,168; June 17; v. 263; p. 425.
- Vigoureux, B. M., et al. (See Brown, Marvin H., assignor.)
- Vigroux, Joseph J. P., Paris, France. Flexible and elastic device for beds, lounge-chairs, arm-chairs, and garden-chairs. No. 1,295,393; Feb. 25; v. 259; p. 651.
- Viking Pump Company, The. (See Schirmer, James O., assignor.)
- Villaamil, José L., Habana, Cuba. Coupling device. No. 1,306,934; June 17; v. 263; p. 383.
- Villamor, Timoteo, Merida, Mex. Machine for scraping vegetable-stalks. No. 1,314,100; Aug. 26; v. 265; p. 509.
- Villani, Angelo, Wilmington, Del. Lock. No. 1,297,754; Mar. 18; v. 260; p. 495.
- Villiger, Alois, San Francisco, Calif. Twine-cutter. No. 1,300,521; Apr. 15; v. 261; p. 480.
- Vincent-Alward Company, The. (See Vincent, William W., assignor.)
- Vincent, Antonio, Oakland, Calif. Trip-hammer. No. 1,297,940; Mar. 18; v. 260; p. 534.
- Vincent, Barzillai. (See Vincent, Ira C. and B.)
- Vincent, Bee E., assignor of one-half to P. H. Hays, Swifts, Ohio. Fluid-pressure clutch. No. 1,300,898; Apr. 15; v. 261; p. 560.



- Vincent, Edward H., Detroit, Mich. Tilttable steering-wheel. No. 1,315,261; Sept. 9; v. 266; p. 154.
- Vincent, Harry S., Ridgewood, N. J., and J. L. Mohun, Brooklyn, assignors to Locomotive Superheater Company, New York, N. Y. Locomotive-drafting-valve mechanism. (Reissue.) No. 14,600; Feb. 25; v. 259; p. 754.
- Vincent, Ira C. and B., Brilliant, Ohio. Safety-switch. No. 1,302,736; May 6; v. 262; p. 48.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,292,165; Jan. 21; v. 258; p. 572.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Clutch mechanism. No. 1,293,995; Feb. 11; v. 259; p. 269.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,297,755; Mar. 18; v. 260; p. 495.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,305,035; May 27; v. 262; p. 583.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Carbureter. No. 1,305,036; May 27; v. 262; p. 583.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,305,037; May 27; v. 262; p. 583.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Vibration damping device. No. 1,315,058; Sept. 2; v. 266; p. 107.
- Vincent, Jesse G., Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich. Balanced crank-shaft. No. 1,315,059; Sept. 2; v. 266; p. 107.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Control mechanism for motor-vehicles. No. 1,321,164; Nov. 11; v. 268; p. 215.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Shifting mechanism. No. 1,321,165; Nov. 11; v. 268; p. 216.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,321,865; Nov. 18; v. 268; p. 399.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,321,866; Nov. 18; v. 268; p. 399.
- Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,323,505; Dec. 2; v. 269; p. 53.
- Vincent, Louis N., Seattle, Wash. Automatic relief-valve. No. 1,291,292; Jan. 14; v. 258; p. 329.
- Vincent, Louis N., Seattle, Wash. Grease-cup. No. 1,309,828; July 15; v. 264; p. 402.
- Vincent, Reginald J., et al. (See Varvel, Sidney L., assignor.)
- Vincent, Robert L. and W. L. McCowan, Hudson Falls, N. Y., assignors to V. & M. Co. Inc. Non-skid-element connector. No. 1,291,293; Jan. 14; v. 258; p. 329.
- Vincent, Sidney C., Baltimore, Md., assignor, by mesene assignments, to Cities Illuminating Company, New York, N. Y. Gas-cock. No. 1,313,140; Aug. 12; v. 265; p. 278.
- Vincent, William J., Cardiff, Wales. Tire. No. 1,303,995; May 20; v. 262; p. 348.
- Vincent, William W., assignor to The Vincent-Alward Company, Kenosha, Wis. Wire-forming machine. No. 1,313,509; Aug. 19; v. 265; p. 363.
- Vintschger, Max. (See Schwarz and Vintschger.)
- Violet, Marcel A., Levallois-Perret, France. Igniting device for explosion-motors. No. 1,326,810; Dec. 30; v. 269; p. 834.
- Virginia Maritime Company. (See Hainer, Whitfield J., assignor.)
- Vis, Gerhard N., Paris, France. Manufacture of sodium carbonate and ammonium sulfate from bisulfate of soda. No. 1,294,526; Feb. 18; v. 259; p. 428.
- Vis, Gerhard N., Paris, France. Regenerating catalyzers containing nickel and its compounds which have been employed for the hydrogenation of fatty bodies or other organic products. No. 1,306,871; June 17; v. 263; p. 371.
- Vis, Gerhard N., Paris, France. Transforming alkali-metal monochromates into bichromates. No. 1,310,720; July 22; v. 264; p. 596.
- Vis, Gerhard N., Paris, France. Isolating salts of chromium. No. 1,324,328; Dec. 9; v. 269; p. 253.
- Vis, Gerhard N., Paris, France. Regenerating oxid-of-nickel catalyzers employed in the hydrogenation of fatty bodies. No. 1,326,122; Dec. 23; v. 269; p. 667.
- Vis, Gerhard N., Paris, France. Transforming alkaline-metal monochromates into bichromates. No. 1,326,123; Dec. 23; v. 269; p. 667.
- Vischer, Alfred, Jr., New York, N. Y. Container. No. 1,326,124; Dec. 23; v. 269; p. 667.
- Viscoloid Company, The. (See Person, Earl R., assignor.)
- Visible Measure Gasoline Dispenser Company of America. (See Brady, James H., assignor.)
- Visible Spark Plug Company. (See Riggs, Alfred L., assignor.)
- Visser, Frank. (See Van Noort and Visser.)
- Vit-O-Net Manufacturing Company. (See Craddick, William F., assignor.)
- Vitilide Company. (See Gilmore, Earl L., assignor.)
- Vitreous Enameling Company, The. (See Weil, Edgar H., assignor.)
- Vizard, Anthony. (See Gallinowsky, Hugo, assignor.)
- Vizcaino, José, Guadalajara, Mexico. Combination-lock. No. 1,310,265; July 15; v. 264; p. 481.
- Vizents, Herman, Chicago, Ill. Invalid-carrier. No. 1,293,996; Feb. 11; v. 259; p. 270.
- Vlasak, Christina M., Tabor, S. D. Nest-box. No. 1,309,345; July 8; v. 264; p. 275.
- Vlasak, William, Chicago, Ill. Traction-spur for motor-vehicle wheels. No. 1,302,737; May 6; v. 262; p. 48.
- Vlcek, Frank J., assignor to The Vlcek Tool Co., Cleveland, Ohio. Apparatus for forming dies. No. 1,324,286; Dec. 9; v. 269; p. 245.
- Vlcek Tool Co., The. (See Pláček, Antonin, assignor.)
- Vlcek Tool Co., The. (See Vlcek, Frank J., assignor.)
- Vlessing, Salomon, Leeuwarden, Netherlands. Drier for vegetables. No. 1,320,721; Nov. 4; v. 268; p. 67.
- Vocalstyle Music Company, The. (See Miller, Harry G., assignor.)
- Voegeli, Friedrich, Berne, Switzerland. Traction-wheel. No. 1,308,513; July 1; v. 264; p. 92.
- Voegtlin, John, Fort Wayne, Ind. Metallic egg and chicken crate. No. 1,297,756; Mar. 18; v. 260; p. 496.
- Voelksen, Gus E. (See Schneider and Voelksen.)
- Vogan, Robert R., Birmingham, Ala. Rotary engine. No. 1,303,745; May 13; v. 262; p. 264.
- Vogel, Edward J., San Francisco, Calif. Golf-club holder. No. 1,314,171; Aug. 26; v. 265; p. 522.
- Vogel, Emil A. (See Davis, William I., assignor.)
- Vogel, Eugene W., Oak Park, assignor to Chicago Railway Signal and Supply Company, Carpentersville, Ill. Electrically-operated controlling apparatus. No. 1,299,638; Apr. 8; v. 261; p. 261.
- Vogel, Felix A., assignor to General Briquetting Company, New York, N. Y. Metal briquet. No. 1,299,878; Apr. 8; v. 261; p. 316.
- Vogel, Felix A., assignor to General Briquetting Company, New York, N. Y. Briquetting flue-dust. No. 1,312,218; Aug. 5; v. 265; p. 68.
- Vogel, Frederick, Wyeth, Oreg. Track-lining jack. No. 1,308,310; July 1; v. 264; p. 55.
- Vogel, George, Washington, D. C. Griddle. No. 1,308,151; July 1; v. 264; p. 27.
- Vogel, George H., Brooklyn, N. Y. Milk-can safety device. No. 1,302,459; Apr. 29; v. 261; p. 932.
- Vogel, Gustave A., New Britain, Conn. Stock for spirit-levels. No. 1,303,829; May 13; v. 262; p. 280.
- Vogel, William, New York, N. Y. Shoe-buttoner. No. 1,306,790; June 17; v. 263; p. 356.
- Vogeler, John, New York, N. Y. Drumhead-tightener. No. 1,312,771; Aug. 12; v. 265; p. 205.
- Vogelsang, Fritz, Charlottenburg, near Berlin, Germany. Door-lock. No. 1,312,219; Aug. 5; v. 265; p. 69.
- Vogelzang, Frank, Rock Valley, Iowa. Liquid-fuel-lock device. No. 1,316,986; Sept. 23; v. 266; p. 535.
- Voges, William E., St. Louis, Mo. Electric lawn-cutter. No. 1,323,337; Dec. 2; v. 269; p. 22.
- Vogetzer, Otto, Brooklyn, N. Y., assignor to Duplex Machine Co. Punch for perforating films. No. 1,302,249; Apr. 29; v. 261; p. 891.
- Vognild, Enoch M., Chicago, Ill. Window-cleaner. No. 1,317,840; Oct. 7; v. 267; p. 34.
- Vogt, Axel S., Altoona, Pa. Track-scale. (Reissue.) No. 14,675; June 24; v. 263; p. 616.
- Vogt, Charles, Chicago, Ill. Drink-mixer. No. 1,323,506; Dec. 2; v. 269; p. 53.
- Vogt, Clarence C., Pittsburgh, Pa., assignor to Lee S. Smith & Son Manufacturing Company. Temporary dental cement or stopping. No. 1,326,552; Dec. 30; v. 269; p. 785.
- Vogt, John A., Oakland, assignor to Elephant Tread Wheel Company, Sacramento, Calif. Tractive element. No. 1,319,257; Oct. 21; v. 267; p. 391.
- Vogt, Louis F., assignor to Standard Chemical Company, Washington, Pa. Alloy. No. 1,304,224; May 20; v. 262; p. 390.
- Vogtlander, William H., Alexandria, Va. Fire-alarm. No. 1,294,207; Feb. 11; v. 259; p. 319.
- Voight, George F., San Francisco, Cal. Shock-absorber. No. 1,292,166; Jan. 21; v. 258; p. 572.
- Voight, George F., San Francisco, Cal. Vehicle shock-absorber. No. 1,294,353; Feb. 11; v. 259; p. 352.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,293,258; Feb. 4; v. 259; p. 66.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,294,208; Feb. 11; v. 259; p. 319.
- Voight, Henry G., assignor to Sargent & Company, New Haven, Conn. Door-stop. No. 1,296,240; Mar. 4; v. 260; p. 97.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,297,757; Mar. 18; v. 260; p. 496.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,297,758; Mar. 18; v. 260; p. 496.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Door-stop. No. 1,305,676; June 3; v. 263; p. 85.



## Alphabetical list of patentees—Continued.

- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Transom-operator. No. 1,306,292; June 10; v. 263; p. 232.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Padlock. No. 1,308,458; July 1; v. 264; p. 82.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,308,459; July 1; v. 264; p. 82.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Automatic door-holder. No. 1,309,310; July 8; v. 264; p. 269.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Bolt-dogging means. No. 1,311,304; July 29; v. 264; p. 737.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Meat-hook or the like. No. 1,316,209; Sept. 16; v. 266; p. 341.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,325,919; Dec. 23; v. 269; p. 630.
- Voight, Henry G., New Haven, Conn. Double-acting door-closer and check. No. 1,323,338; Dec. 2; v. 269; p. 22.
- Voight, Henry G., New Haven, Conn. Casement-adjuster. No. 1,326,623; Dec. 30; v. 269; p. 799.
- Voight, Henry G., New Britain, and A. A. Page, East Haven, assignors to Sargent & Company, New Haven, Conn. Transom-operator. No. 1,306,291; June 10; v. 263; p. 232.
- Voightlander, Maximilian G., Columbia township, Hamilton county, Ohio, assignor of one-third to F. A. Fischer and one-third to J. J. Craig, Covington, Ky. Mail-distributing device. No. 1,293,259; Feb. 4; v. 259; p. 66.
- Voigt, Albert, Brooklyn, N. Y. Drawer-carrier. No. 1,321,166; Nov. 11; v. 268; p. 216.
- Voigt, Albert, Brooklyn, N. Y. Drawer-carrier. No. 1,321,167; Nov. 11; v. 268; p. 216.
- Voigt, Philip F., et al. (See Bauer, Otto V., assignor.)
- Voightlander, Maximilian G., Cincinnati, Ohio, assignor of one-third to F. A. Fischer and one-third to J. J. Craig, Covington, Ky. Mail-feeding mechanism. No. 1,293,260; Feb. 4; v. 259; p. 66.
- Voland, Emil L. (See Voland, George G. and E. L.)
- Voland, George G. and E. L., New Rochelle, N. Y. Weight placing and proving attachment. No. 1,301,765; Apr. 22; v. 261; p. 769.
- Volckening, Charles K., Brooklyn, N. Y. Bottle-washer brush. No. 1,320,513; Nov. 4; v. 268; p. 29.
- Volkhausen, Julius. (See Schweinert and Volkhausen.)
- Volehradsky, Joseph, New York, N. Y., assignor to Autopiano Company. Gearing for note-sheet propelling. No. 1,309,789; July 15; v. 264; p. 395.
- Volk, Edward J., Cleveland, Ohio. Collapsible tube. No. 1,296,884; Mar. 11; v. 260; p. 277.
- Volk, Emil, Gemmell, Minn. Combination-lock. No. 1,304,633; May 27; v. 262; p. 508.
- Volk, Frank. (See Robertson and Volk.)
- Volker, Alfred E., et al. (See Van Pelt, John B., assignor.)
- Volker, Frank W., et al. (See Van Pelt, John B., assignor.)
- Volkers, Emil, Berlin, Germany. Electric motor for small outputs. No. 1,322,659; Nov. 25; v. 268; p. 600.
- Volkhardt, William, Stapleton, N. Y. Tie-plate. No. 1,290,428; Jan. 7; v. 258; p. 99.
- Volkhardt, William, Stapleton, N. Y. Hydrant-cock. No. 1,303,996; May 20; v. 262; p. 348.
- Volkman, Charles J. (See Salmon and Volkman.)
- Volkman, Erwin O. E., Milwaukee, Wis. Linotype assembling device. No. 1,314,836; Sept. 2; v. 266; p. 68.
- Vollkommer, Theodore J., Pittsburgh, Pa. Making metallic oxides. No. 1,300,522; Apr. 15; v. 261; p. 480.
- Vollmann, Carl W., Montreal, Quebec, Canada. Gas-compressor. No. 1,301,987; Apr. 29; v. 261; p. 842.
- Vollmer, Charles D., and M. Laskowitz, St. Louis, Mo. Automobile jack, lock, and antiskid. No. 1,325,600; Dec. 23; v. 269; p. 570.
- Volotone Company. (See Newcomer, Martin, assignor.)
- Volpe, Joseph, Chicago, Ill. Shock-eliminator for vehicle-springs. No. 1,319,736; Oct. 28; v. 267; p. 505.
- Volpe, Tommaso, Sapri, Italy. Change-speed gear. No. 1,292,384; Jan. 21; v. 258; p. 623.
- Volpert, Joseph, Milwaukee, Wis. Ash-sifter. No. 1,300,675; Apr. 15; v. 261; p. 512.
- Volters, Edward, St. Louis, Mo. Foldable bath-tub. No. 1,307,942; June 24; v. 263; p. 600.
- Voltz, Charles, New York, assignor of one-half to S. B. Cochrane, Brooklyn, N. Y. Metal barrel. No. 1,296,721; Mar. 11; v. 260; p. 239.
- Volz, Chris L., Cleveland, Ohio. Electrical apparatus. No. 1,312,064; Aug. 5; v. 265; p. 40.
- Volz, Christian, St. Paul, Minn. Adjustable rail-clip for railway detector-bars. No. 1,310,098; July 15; v. 264; p. 450.
- Volz, Herman, Newark, N. J. Band-saw guide. No. 1,304,128; May 20; v. 262; p. 372.
- Volz, Theodor J. (See Marshall and Volz.)
- Vom Eigen, Benno, Newark, N. J., assignor to August Goertz & Co. Hasp. No. 1,296,343; Mar. 4; v. 260; p. 119.
- Vomoell, Ladislav, Bard, Cal. Trench-plow. No. 1,291,294; Jan. 14; v. 258; p. 329.
- Von Arco, Georg, and A. Meissner, Berlin, Germany. Transmitting apparatus for wireless telegraph; and telephony. No. 1,308,514; July 1; v. 264; p. 92.
- Von Arco, Georg, and A. Meissner, Berlin, Germany. High-frequency generator for telegraphy and telephony. No. 1,314,101; Aug. 26; v. 265; p. 509.
- Von Arco, Georg, and A. Meissner, Berlin, Germany. Connection for electric relays working with ionized gas-gap. No. 1,314,102; Aug. 26; v. 265; p. 509.
- Von Arco, Georg, and A. Meissner, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Station for wireless telegraphy and telephony. No. 1,294,963; Feb. 18; v. 259; p. 534.
- Von Boden, George B., San Francisco, Calif. Oil-burner feed and heater. No. 1,299,069; Apr. 1; v. 261; p. 104.
- Von Bornstedt, Alfred H., and C. P. Blecker, New York, N. Y. Indicator for piano-keyboards. No. 1,293,997; Feb. 11; v. 259; p. 270.
- Von Brethorst, Joergen, and F. W. Priestley, assignors to H. J. Buell and W. B. Rood, Webster City, Iowa. Check-protector. No. 1,316,414; Sept. 16; v. 266; p. 380.
- Von Buchwald, William J. (See Reed and Von Buchwald.)
- Von Culin, Clayton. (See Beach and Von Culin.)
- Von Groeling, Albrecht F. G. P. J., Coffeyville, Kans., assignor to Atlas Process Company, Inc., New York, N. Y. Process of and apparatus for distilling crude oil and other hydrocarbons. No. 1,295,088; Feb. 18; v. 259; p. 558.
- Von Hacht, William, et al. (See Pagendarm, Joan T., assignor.)
- Von Henke, Edmund J., New York, N. Y., assignor to Thomson Electric Welding Company, Lynn, Mass. Electric metal-working machine. No. 1,304,634; May 27; v. 262; p. 508.
- Von Henke, Edmund J., New York, N. Y., assignor to Thomson Electric Welding Company, Lynn, Mass. Electric riveting. No. 1,322,848; Nov. 25; v. 268; p. 634.
- Von Kaentzel, Frederick J. (See Maurer and Von Kaentzel.)
- Von Kolnitz, George F., Stockertown, Pa. Obtaining potassium compounds. No. 1,296,141; Mar. 4; v. 260; p. 75.
- Von der Lieth, John W. (See Von Madaler and Von der Lieth.)
- Von Madaler, Ferdinand, Good Ground, and J. W. Von der Lieth, assignors of one-third to H. Bernhard, Brooklyn, N. Y. Means for electroplating metals and the like. No. 1,319,192; Oct. 21; v. 267; p. 379.
- Von Marchthal, Eduard M., Vienna, Austria, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Justifying lines in writing-machines. No. 1,307,068; June 17; v. 263; p. 408.
- Von Nessen, Fred, et al. (See Goldthorpe, Edwin T., assignor.)
- Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Registering and money-changing mechanism. No. 1,290,429; Jan. 7; v. 258; p. 100.
- Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Check-issuing mechanism for cash-registers. No. 1,309,829; July 15; v. 264; p. 402.
- Von Philp, Casimir, Bethlehem, Pa. Pressing-machine. No. 1,295,645; Feb. 25; v. 259; p. 709.
- Von Porat, Karl H. V., Stocksund, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Furnace with mixing-chamber for pulverous fuel. No. 1,294,730; Feb. 18; v. 259; p. 475.
- Von Porat, Karl H. V., Stocksund, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Feeding device for pulverulent fuel. No. 1,319,193; Oct. 21; v. 267; p. 380.
- Von Post, Gustaf, Stockholm, Sweden. Milking-machine. No. 1,325,179; Dec. 16; v. 269; p. 475.
- Von Rahr, Ernest L., Haverhill, Mass. Steering-wheel. No. 1,325,341; Dec. 16; v. 269; p. 506.
- Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Apparatus for charging cylinders with oxygen. No. 1,314,773; Sept. 2; v. 266; p. 56.
- Von Reppert, Richard, St. Louis, Mo. Calculating-machine. No. 1,302,250; Apr. 29; v. 261; p. 891.
- Von Schill, Nicholas L., et al. (See Gill, Charles H., assignor.)
- Von Schlegel, Frederick, Evanston, Ill., and C. B. Fletcher, Indianapolis, Ind. Electric furnace. No. 1,294,837; Feb. 18; v. 259; p. 500.
- Von Schrenk, Arnold, St. Louis, Mo. Mechanical movement. No. 1,291,664; Jan. 14; v. 258; p. 417.
- Von Schrenk, Arnold, St. Louis, Mo. Removable running-board for automobiles. No. 1,310,973; July 22; v. 264; p. 642.
- Von Siemens, Wilhelm, Charlottenburg, near Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Berlin, Germany. Type-writer. No. 1,317,406; Sept. 30; v. 266; p. 651.



- Von Stetten, Julius O., Philadelphia, Pa., assignor to Philadelphia Metal Drying Form Company, New Castle, Del. Garment-forming mechanism. No. 1,292,167; Jan. 21; v. 258; p. 573.
- Von Stetten, Julius O., and H. J. Pressman, Philadelphia, Pa., assignors to Philadelphia Metal Drying Form Company, New Castle, Del. Garment-drying apparatus. No. 1,308,381; July 1; v. 264; p. 68.
- Von Tell, Edward E., Gottenborg, Sweden. Watertight securing of tarpaulins on ships' hatches or similar coverings. No. 1,319,980; Oct. 28; v. 267; p. 551.
- Von Tobel, Fritz O., (now by judicial change of name M. J. Harding,) New York, N. Y. Holder for flags and other articles. No. 1,314,549; Sept. 2; v. 266; p. 14.
- Von Trott, Harry L., Fort Madison, Iowa. Extension-table. No. 1,303,997; May 20; v. 262; p. 349.
- Von Trott, Harry L., Fort Madison, Iowa. Tire. No. 1,303,998; May 20; v. 262; p. 349.
- Von Uffel, Herman, Philadelphia, Pa. Fiber composition. No. 1,326,232; Dec. 30; v. 269; p. 725.
- Von Wettberg, Eduard F., et al. (See Crane, Thomas S., assignor.)
- Von Zweigbergk, Gillis. (See Von Zweigbergk, Thorsten and G.)
- Von Zweigbergk, Thorsten, Lancaster, England. Electric change-speed gearing for automobiles. No. 1,292,218; Jan. 21; v. 258; p. 585.
- Von Zweigbergk, Thorsten, Lancaster, and G. von Zweigbergk, Fulwood, Preston, England; said G. von Zweigbergk assignor to said Thorsten von Zweigbergk. Change-speed gearing. No. 1,307,230; June 17; v. 263; p. 436.
- Vontobel, Friedrich O., (now by judicial change of name M. J. Harding,) New York, N. Y. Collar-button. No. 1,314,837; Sept. 2; v. 266; p. 68.
- Voorhees, Gardner T. (See Fourness, Wilfred, assignor.)
- Voorhees, Gardner T., New York, N. Y. Ice-making process. No. 1,321,954; Nov. 18; v. 268; p. 415.
- Voorhees, Gardner T., Boston, Mass. Ice-making process. No. 1,322,660; Nov. 25; v. 268; p. 600.
- Voorhees, George H., Pasadena, Cal. Bath-tub heater. No. 1,292,168; Jan. 21; v. 258; p. 573.
- Voorhees, John J., Jr. (See Dickey, Charles T., assignor.)
- Voorhees, John J., Jr., Jersey City, N. J. Pump-valve and the like. No. 1,295,894; Feb. 25; v. 259; p. 651.
- Voorhees, Wilson R., Perth Amboy, N. J. Maximum-speed governor for automobiles. No. 1,302,251; Apr. 29; v. 261; p. 891.
- Voorhies, Felix E., Dallas, Tex. Cotton-seed linter. No. 1,308,823; July 8; v. 264; p. 177.
- Voorhies, Sylvester, Enderlin, N. D. Telegraph-repeater. No. 1,291,697; Jan. 14; v. 258; p. 423.
- Voorhies, Sylvester, Enderlin, N. D. Telegraph-sounder. No. 1,295,646; Feb. 25; v. 259; p. 710.
- Voorhies, Sylvester, Enderlin, N. D. Telegraph-sounder circuits. No. 1,296,142; Mar. 4; v. 260; p. 75.
- Voos, Ernest G., New Haven, Conn. Knife. No. 1,318,515; Oct. 14; v. 267; p. 225.
- Vornhulz, Josephine, Washington, D. C. Carpet-fastener. No. 1,315,060; Sept. 2; v. 266; p. 108.
- Vosberg, Harry. (See Rochon, Eugene A., assignor.)
- Vose, Grant W., Oleta, Calif. Automobile-wheel loosener. No. 1,324,704; Dec. 9; v. 269; p. 325.
- Vose, Samuel F., Shawnee, Okla. Rectal-injection apparatus. No. 1,324,862; Dec. 16; v. 269; p. 416.
- Vose & Sons Piano Company. (See Stephenson, William C., assignor.)
- Vosika, James A., Olivia, Minn. Electric-volume indicator for tanks. No. 1,316,341; Sept. 16; v. 266; p. 366.
- Voss, Clarence W., St. Louis, Mo. Toy. No. 1,317,184; Sept. 30; v. 266; p. 609.
- Voss, Otto H., and H. E. Lichtenhan, New York, N. Y. Device for securing rope ends. No. 1,297,615; Mar. 18; v. 260; p. 464.
- Voss, William E., Oklahoma, Okla. Low-pressure alarm. No. 1,300,523; Apr. 15; v. 261; p. 481.
- Voss, William H., Davenport, Iowa. Gearing. No. 1,292,169; Jan. 21; v. 258; p. 573.
- Voss, William H., Davenport, Iowa. Washing-machine gearing. No. 1,294,325; Feb. 11; v. 259; p. 346.
- Vossler, Henry, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Spacing-washer. No. 1,311,473; July 29; v. 264; p. 769.
- Vossler, Henry, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Insulating-washer. No. 1,314,103; Aug. 26; v. 265; p. 509.
- Voitaw, Joseph L., and M. J. La Varway, Stigler, Okla. Combined clamp and thimble. No. 1,322,849; Nov. 25; v. 268; p. 634.
- Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company. Pianissimo device for pianos. No. 1,313,141; Aug. 12; v. 265; p. 278.
- Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company. Record-cabinet. No. 1,314,481; Aug. 26; v. 265; p. 582.
- Vreeland Apparatus Company. (See Vreeland, Frederick K., assignor.)
- Vreeland, Cornelius D., Upper Montclair, N. J. Producing zinc arsenite. No. 1,296,344; Mar. 4; v. 260; p. 120.
- Vreeland, Frederick K., Montclair, N. J., assignor to Vreeland Apparatus Company. Selective receiving system for radiant energy. No. 1,315,584; Sept. 9; v. 266; p. 212.
- Vreeland, Walter G., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn. Hydraulic swivel. No. 1,296,573; Mar. 4; v. 260; p. 169.
- Vroom, Oler P., assignor to Superior Hay Stacker Mfg. Co., Linneus, Mo. Hay-stacker. No. 1,305,420; June 3; v. 263; p. 36.
- Vrudny, Andrew, Arnold, Pa. Rail-joint. No. 1,300,060; Apr. 8; v. 261; p. 354.
- Vsetecka, Frank, Fort Atkinson, Iowa. Depth-gage for corn-planters. No. 1,305,324; June 3; v. 263; p. 18.
- Vucinovich, Louis, Annapolis, Calif. Fruit-picker. No. 1,304,127; May 20; v. 262; p. 372.
- Vuillermet, Albin and C., Philadelphia, Pa. Making mother-of-pearl tiling. No. 1,302,252; Apr. 29; v. 261; p. 892.
- Vuillermet, Ceasar. (See Vuillermet, Albin and C.)
- Vuilleumier, Rudolph, New Rochelle, assignor to The Safety Car Heating and Lighting Co., New York, N. Y. Apparatus for and method of heat differentiation. No. 1,321,343; Nov. 11; v. 268; p. 250.
- Vulcan Iron Works. (See Jeter, John T., assignor.)
- Vulcan Iron Works. (See Rinehimer, Ernest, assignor.)
- Vulcan Last Company, The. (See Clausing, George, assignor.)
- W. A. Freeman Company. (See Freeman, William A., assignor.)
- W. F. Hessel. (See Anderson, David M., assignor.)
- W. F. Powers Company, The. (See Cadmus, Arthur W., assignor.)
- W. H. Friedrich & Co. (See Friedrich, William H., assignor.)
- W. H. McElwain Company. (See Brackett, Frank A., assignor.)
- W. H. McElwain Company. (See Eaton, Charles F., assignor.)
- W. H. McElwain Company. (See Grant, Reuben P., assignor.)
- W. H. Nicholson and Company. (See Nicholson and Beiswinger, assignors.)
- W. J. Young Machinery Company. (See Grover, George B., assignor.)
- W. M. Boyle Manufacturing Company. (See Boyle, William M., assignor.)
- W. N. Matthews and Brother. (See Heinrich, Walter A., assignor.)
- W. S. Tyler Company, The. (See Disbro, Roger W., assignor.)
- W. S. Tyler Company, The. (See Griffith, Thomas E., assignor.)
- W. & T. Avery, Limited. (See Hartley, John W., assignor.)
- W. & L. E. Gurley. (See Hess, Wendell, Jr., assignor.)
- Waagbo, William, Northport, Mich. Rotary engine. No. 1,317,056; Sept. 23; v. 266; p. 548.
- Waage, Alvin H., New York, N. Y. Expansive screw-anchor. No. 1,302,609; May 6; v. 262; p. 24.
- Wachenheimer Bros. (See Lyckland and Wachenheimer, assignors.)
- Wachenheimer, Harry. (See Lyckland and Wachenheimer.)
- Wachtel, William E. (See Chapman, Lemuel W., assignor.)
- Wachter, Louis E. F., New York, N. Y. Watch-crystal. No. 1,304,421; May 20; v. 262; p. 429.
- Wachter, Louis E. F., New York, N. Y. Watch-bow. No. 1,308,210; July 1; v. 264; p. 37.
- Wachter, Louis E. F., New York, N. Y. Watch crystal and bezel. No. 1,308,690; July 1; v. 264; p. 125.
- Wachter, Louis E. F., New York, N. Y. Watch. No. 1,314,172; Aug. 26; v. 265; p. 522.
- Wachter, Louis E. F., New York, N. Y. Attachment for watches. No. 1,326,811; Dec. 30; v. 269; p. 834.
- Wack, George E., Waterloo, Iowa, assignor to Sanifount Company, Wilmington, Del. Automobile number-plate. No. 1,295,941; Mar. 4; v. 260; p. 27.
- Wackenhuth, Frederick, Newark, N. J. Syringe. No. 1,315,885; Sept. 9; v. 266; p. 267.
- Wacker, Frederick G., Chicago, Ill. Metallic receptacle. No. 1,314,445; Aug. 26; v. 265; p. 576.
- Wacker, George W., Rutherford, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Portable electric light. No. 1,312,220; Aug. 5; v. 265; p. 69.
- Wacker, George W., Rutherford, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Portable electric light. No. 1,312,221; Aug. 5; v. 265; p. 69.
- Wacker, George W., Rutherford, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Circuit-controller for portable electric lights. No. 1,315,262; Sept. 9; v. 266; p. 154.
- Wacker, George W., Rutherford, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Flash-light container. No. 1,316,870; Sept. 23; v. 266; p. 513.
- Wackman, Louis B., and T. Connors, assignors to St. Louis Metalware Co., St. Louis, Mo. Drum-faucet. No. 1,320,429; Nov. 4; v. 268; p. 14.
- Wackwits, Henry E. J. (See Seaboldt and Wackwits.)



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- Wackwitz, Ernest F., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Electrically-controlled transmission. No. 1,304,636; May 27; v. 262; p. 508.
- Waculik, Julius. (See Gorgey, William, assignor.)
- Waczula, John, New York, N. Y. Combination lathe-tool. No. 1,300,204; Apr. 8; v. 261; p. 386.
- Waddill, Robert D., administrator. (See Baxter, William C.)
- Waddingham, William H., and A. Taylor, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Means for cutting off the supply of air to torpedo-tubes. No. 1,304,422; May 20; v. 262; p. 429.
- Waddington, James F., Beverly, N. J. Ship-davit. No. 1,297,276; Mar. 11; v. 260; p. 363.
- Waddington, James F., Beverly, N. J. Submarine vessel. No. 1,300,524; Apr. 15; v. 261; p. 481.
- Wade, Archie, Los Angeles, Calif. Electric chimes. No. 1,322,379; Nov. 18; v. 268; p. 495.
- Wade, Clarence B., American Falls, Idaho. Gas-generator. No. 1,304,225; May 20; v. 262; p. 390.
- Wade, George V. (See Wade, William G. and G. V.)
- Wade, James M., Boston, Mass. Camera. No. 1,295,395; Feb. 25; v. 259; p. 651.
- Wade, Jessie, West Kensington, assignor of one-half to O. P. MacFarlane, London, England. Musical instrument. No. 1,324,530; Dec. 9; v. 269; p. 292.
- Wade, Joseph, et al. (See Harris, Robert H., assignor.)
- Wade, Perry W. (See Bowman, Edwin J., assignor.)
- Wade, Thomas E., Burlingame, Calif. Airship. No. 1,303,999; May 20; v. 262; p. 349.
- Wade, William G., St. Catharines, and G. V. Wade, Dundas, Ontario, Canada. Steering-strain-relieving device for automobiles. No. 1,305,635; June 3; v. 263; p. 78.
- Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Case. No. 1,321,867; Nov. 18; v. 268; p. 400.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Water-heater. No. 1,297,045; Mar. 11; v. 260; p. 314.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working. No. 1,307,527; June 24; v. 263; p. 524.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working apparatus and process. No. 1,311,474; July 29; v. 264; p. 769.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working. No. 1,323,507; Dec. 2; v. 269; p. 54.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working machine. No. 1,326,235; Dec. 30; v. 269; p. 725.
- Wadsworth, Frank L. O., Sewickley, Pa., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,304,829; May 27; v. 262; p. 545.
- Wadsworth, Frank M., Minneapolis, Minn. Dental device and denture construction. No. 1,319,737; Oct. 28; v. 267; p. 505.
- Wadsworth, Henry L., Lexington, Mass. Sound recording and reproducing machine. No. 1,312,461; Aug. 5; v. 265; p. 114.
- Wadsworth, Walter S., Eastend, Saskatchewan, Canada. Valve-grinding tool. No. 1,310,640; July 22; v. 264; p. 581.
- Wadsworth Watch Case Company, The. (See Wadsworth Arthur W., assignor.)
- Waern, William, Stockholm, Sweden. Bark-stripping machine. No. 1,301,198; Apr. 22; v. 261; p. 660.
- Waern, William, Stockholm, Sweden. Speed-changing device for bark-stripping machines. No. 1,301,199; Apr. 22; v. 261; p. 660.
- Waern, William, Stockholm, Sweden. Feeding device for bark-stripping machines. No. 1,301,200; Apr. 22; v. 261; p. 660.
- Waffenfabrik Mauser Aktiengesellschaft. (See Mauser, Paul, assignor.)
- Wagemaker, Isaac, Grand Rapids, Mich. Tab-cutting machine for index-card guides. No. 1,297,759; Mar. 18; v. 260; p. 496.
- Wagenhals, William G., Detroit, Mich. Tractor. No. 1,298,127; Mar. 25; v. 260; p. 599.
- Wagenhals, William G., Detroit, Mich. Tractor. No. 1,321,955; Nov. 18; v. 268; p. 416.
- Wagenhorst, James H., Akron, Ohio. Wheel with tire-carrying flange. No. 1,316,605; Sept. 23; v. 266; p. 465.
- Wagenhorst, James H., Akron, Ohio. Wheel-rim. No. 1,316,600; Sept. 23; v. 266; p. 465.
- Wagenhorst, Mary, Akron, Ohio. Dish-washer. No. 1,306,089; June 10; v. 263; p. 192.
- Wager, Robert H., Jersey City, N. J. Bridge-wall for boilers. No. 1,321,168; Nov. 11; v. 268; p. 216.
- Waggoner, Chauncey W., assignor to W. A. Jones, Morgantown, W. Va. Headlight-lens. No. 1,310,721; July 22; v. 264; p. 596.
- Waggoner, Ira E., Lexington, Ky. Window-curtain holder. No. 1,307,222; June 17; v. 263; p. 434.
- Waggoner, Zachariah H., assignor of one-half to W. T. Broxton, Athens, Ga. Fireback for fireplaces. No. 1,326,812; Dec. 30; v. 269; p. 834.
- Wagner, Charles, Grantwood, N. J., and A. Hormel, New York, N. Y. Mower. No. 1,291,295; Jan. 14; v. 258; p. 329.
- Wagner, Charles, Grantwood, N. J., and A. Hormel, New York, N. Y. Drying apparatus for sheet-metal plates. No. 1,293,261; Feb. 4; v. 259; p. 67.
- Wagner, Charles, Grantwood, N. J., A. Hormel, New York, and C. J. Vieau, Brooklyn, N. Y. Container. No. 1,308,268; July 1; v. 264; p. 48.
- Wagner, Charles L., New York, assignor to S. Sternau & Company, Inc., Brooklyn, N. Y. Fuel and making the same. No. 1,317,950; Oct. 7; v. 267; p. 55.
- Wagner, Charles W., Milwaukee, Wis. Brush-handle attachment. No. 1,311,581; July 29; v. 264; p. 789.
- Wagner, David S., Carlisle, Pa. Draft appliance for tractors. No. 1,322,661; Nov. 25; v. 268; p. 600.
- Wagner, Edwin, Cove Orchard, Oreg. Lock-lid container. No. 1,300,899; Apr. 15; v. 261; p. 560.
- Wagner Electric Manufacturing Company. (See Dick, Burns, assignor.)
- Wagner Electric Manufacturing Company. (See Fynn, Valere A., assignor.)
- Wagner, Erwin F., and G. H. Lawrence, Owensboro, Ky. Shaft-coupling. No. 1,321,264; Nov. 11; v. 268; p. 235.
- Wagner, Frank G., Los Angeles, Cal. Attachment for dental engines. No. 1,293,998; Feb. 11; v. 259; p. 270.
- Wagner, Frank J., assignor to J. B. Kirby, Cleveland, Ohio. Collecting-bag for vacuum-cleaners. No. 1,302,886; May 6; v. 262; p. 78.
- Wagner, Fredrick W., Detroit, Mich. Armored war-tank. No. 1,292,170; Jan. 21; v. 258; p. 573.
- Wagner, Friedrich. (See Brown, Frey, and Wagner.)
- Wagner, George E., et al. (See Cooper, Benjamin F., assignor.)
- Wagner, H. J. (See Schmidt, Francis J., Jr., assignor.)
- Wagner, Henry H., assignor of one-half to W. Leissring, Milwaukee, Wis. Lingerie-clasp. No. 1,321,408; Nov. 11; v. 268; p. 262.
- Wagner, Hugh K., et al. (See Funk, Oscar F., assignor.)
- Wagner, James M., assignor to W. L. McKay, Chicago, Ill. Telephone-receiver appliance. No. 1,321,265; Nov. 11; v. 268; p. 235.
- Wagner, Joseph, Buffalo, N. Y. Envelop. No. 1,297,941; Mar. 18; v. 260; p. 534.
- Wagner, Louis, assignor of one-half to E. Crede, Newberg, Oreg. Agricultural machine. No. 1,314,838; Sept. 2; v. 266; p. 68.
- Wagner, Paul G. (See Post and Wagner.)
- Wagner, Richard G. (See Tschirner, Frederick, assignor.)
- Wagner, Robert E., Pittsfield, Mass., assignor to General Electric Company. Welding-machine. No. 1,305,039; May 27; v. 262; p. 584.
- Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstad, Karlstad, Sweden. Rotary pressing apparatus for wood-pulp and cellulose. No. 1,321,956; Nov. 18; v. 268; p. 416.
- Wagner, Virgil C., New York, N. Y. Warming-plate. No. 1,316,006; Sept. 16; v. 266; p. 304.
- Wagner, Walter S., assignor of one-half to J. A. Danks, Vermilion, S. D. Fruit-jar holder. No. 1,292,933; Jan. 28; v. 258; p. 775.
- Wagner, William F., North Braddock, Pa. Game. No. 1,314,623; Sept. 2; v. 266; p. 28.
- Wagner, William H., Burlington, Wis. Needling-machine. No. 1,326,236; Dec. 30; v. 269; p. 725.
- Wagner, William, H. A. Lohr, and A. E. Boerngen, Massillon, Ohio. Vegetable-cooler. No. 1,318,034; Oct. 7; v. 267; p. 71.
- Wagniere, August L., Los Angeles, Calif., assignor, by mesne assignments, to U. S. G. Hinton, Providence, R. I. Automatic air-valve for internal-combustion engines. No. 1,301,340; Apr. 22; v. 261; p. 689.
- Wagoner, Richard B., Albany, N. Y. Milk-bottle safe. No. 1,324,531; Dec. 9; v. 269; p. 293.
- Wahl Company, The. (See Ashley, Frank M., assignor.)
- Wahl Company. (See Poole, Arthur F., assignor.)
- Wahl Company. (See Hasselquist, Hugo S., assignor.)
- Wahl Company. (See Straub, Joseph E., assignor.)
- Wahl Company. (See Wahl, John C., assignor.)
- Wahl, Henry R. (See Auran, Frank E., assignor.)
- Wahl, Henry R., Chicago, Ill. Hydraulic separator for crushed ores. No. 1,306,361; June 10; v. 263; p. 245.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Self-feeding pencil. No. 1,301,341; Apr. 22; v. 261; p. 689.
- Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,311,729; July 29; v. 264; p. 816.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,311,730; July 29; v. 264; p. 817.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pen-clip. No. 1,314,104; Aug. 26; v. 265; p. 510.
- Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,314,105; Aug. 26; v. 265; p. 510.



- Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Wahl Company, Wilmington, Del. Calculating-machine. No. 1,317,466; Sept. 30; v. 266; p. 663.
- Wahl, John C., Chicago, Ill., assignor to Wahl Company, Wilmington, Del. Automatic item-counter for calculating-machines. No. 1,317,467; Sept. 30; v. 266; p. 663.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Calculating-machine. No. 1,323,206; Nov. 25; v. 268; p. 703.
- Wahl, John C., assignor to Wahl Company, Chicago, Ill. Calculating-machine. No. 1,325,819; Dec. 23; v. 269; p. 611.
- Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clamping device. No. 1,303,424; May 13; v. 262; p. 206.
- Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-conductor device. No. 1,306,566; June 10; v. 263; p. 282.
- Wahlert, Henry A., assignor to The American Brake Company, St. Louis, Mo. Brake-lever bracket. No. 1,294,354; Feb. 11; v. 259; p. 352.
- Wahlman, Petrus, New York, N. Y. Submerged fluid-intake. No. 1,315,615; Sept. 9; v. 266; p. 217.
- Wahlstrom, Charles S., Boulder, Colo. Truss-pad. No. 1,312,222; Aug. 5; v. 265; p. 69.
- Wahrenberger, William E., New York, N. Y. Wheel-carrier for demountable wheels. No. 1,297,942; Mar. 18; v. 260; p. 534.
- Waid, Calvin R., Birmingham, Ala. Segmental grate-bar. No. 1,306,729; June 17; v. 263; p. 345.
- Waigand, Edward, Nampa, Idaho. Wrapping-paper support. No. 1,300,061; Apr. 8; v. 261; p. 354.
- Wainwright, Charles, Erie, Pa. Intake-unloader for compressor service. No. 1,324,705; Dec. 9; v. 269; p. 325.
- Wainwright, Charles, and F. J. Carney, Erie, Pa. Regulating device for air-compressors and the like. No. 1,290,430; Jan. 7; v. 258; p. 100.
- Wais, Albert C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Boring-mill. No. 1,296,885; Mar. 11; v. 260; p. 277.
- Wait, Henry H., Chicago, Ill. Dynamo-electric machine. No. 1,313,431; Aug. 19; v. 265; p. 348.
- Wait, Henry H., Chicago, Ill. Steam-turbine. No. 1,315,263; Sept. 9; v. 266; p. 154.
- Wait, Henry H., Chicago, Ill. Turbine. No. 1,318,035; Oct. 7; v. 267; p. 71.
- Wait, Wesley, Newburgh, N. Y. Building construction. No. 1,296,574; Mar. 4; v. 260; p. 169.
- Waite, Edwin E., Framingham, Mass. Bushing for bearings and making the same. No. 1,309,668; July 15; v. 264; p. 373.
- Waite, Edwin E., assignor of one-half to Standard Woven Fabric Company, Framingham, Mass. Clutch-ring. No. 1,292,666; Jan. 28; v. 258; p. 713.
- Waite, Edwin E., assignor of one-half to Standard Woven Fabric Company, Framingham, Mass. Needle-loom. No. 1,296,024; Mar. 4; v. 260; p. 47.
- Waite, Edwin E., assignor of one-half to Standard Woven Fabric Company, Framingham, Mass. Needle-loom. No. 1,296,025; Mar. 4; v. 260; p. 47.
- Waite, Harry C., Elgin, Ill. Extension-control device. No. 1,322,979; Nov. 25; v. 268; p. 659.
- Waite, Harry C., Oak Park, assignor of one-half to B. A. Kennedy, Chicago, Ill. Self-propelled agricultural machine. No. 1,295,242; Feb. 25; v. 259; p. 616.
- Waite, Harry C., Chicago, Ill., assignor, by mesne assignments, to Elgin Tractor Corporation. Vehicle construction. No. 1,315,437; Sept. 9; v. 266; p. 186.
- Waite, Harry C., assignor to Elgin Tractor Corporation, Elgin, Ill. Carbureter. No. 1,319,633; Oct. 21; v. 267; p. 463.
- Waite, Harry F. (See Garretson, John L., assignor.)
- Waite, Harry F., New York, N. Y. X-ray-tube holder and shield. No. 1,307,385; June 24; v. 263; p. 498.
- Waite, Harry F., Whitestone Landing, N. Y. Film-holder for X-ray apparatus. No. 1,307,386; June 24; v. 263; p. 498.
- Waite, Harry F., Whitestone Landing, N. Y. X-ray-tube current-measuring system. No. 1,307,645; June 24; v. 263; p. 545.
- Waite, Henry J., Port Huron, Mich. Rotary filing device. No. 1,291,296; Jan. 14; v. 258; p. 330.
- Waite, Ossian T., Oshkosh, Wis. Grass-twine machine. No. 1,308,536; July 1; v. 264; p. 96.
- Waite, Thomas J., Seminole, Okla. Wire stretching and splicing tool. No. 1,290,431; Jan. 7; v. 258; p. 100.
- Waltz, Charles A., Rouseville, Pa. Operating oil-wells. No. 1,295,243; Feb. 25; v. 259; p. 617.
- Wak Novelty Company, The. (See Denes, Alexander, assignor.)
- Wake, Charles E., assignor to C. A. Hungate, Walla Walla, Wash. Tractor. No. 1,293,999; Feb. 11; v. 259; p. 270.
- Wakefield, Almond J., Faulkton, S. D. Gang-plow. No. 1,318,036; Oct. 7; v. 267; p. 72.
- Wakefield, Charles S., Hampstead, London, England. Temporary or portable structure or building. No. 1,312,065; Aug. 5; v. 265; p. 40.
- Wakefield, James S. (See McIlvoy, George D., assignor.)
- Wakefield, Richard E. B., et al. (See Clardy, George D., assignor.)
- Wakefield, Thomas, Fillmore, N. Y. Composition of matter. No. 1,293,585; Feb. 4; v. 259; p. 142.
- Wakeling, Bertram M. (See Dunae, Archipp F., as No. 1,292,215; Jan. 21; v. 258; p. 584.)
- Wakeman, Charles A., Oshkosh, Wis. Wood-shaving machine. No. 1,305,421; June 3; v. 263; p. 36.
- Wakeman, Charles A., Oshkosh, Wis. Excelsior-pad machine. No. 1,321,576; Nov. 11; v. 268; p. 294.
- Waknitz, Herman C., Minneapolis, Minn. Grapple. No. 1,306,206; June 10; v. 263; p. 214.
- Walas, Stanley, Chicago, Ill. Connector. No. 1,291,297; Jan. 14; v. 258; p. 330.
- Walborn, Elton W., Canton, Pa. Automatic draft-regulator. No. 1,320,298; Oct. 28; v. 267; p. 610.
- Walcoff, Harry, New York, N. Y. Knickerbockers. No. 1,306,935; June 17; v. 263; p. 383.
- Walcott, Erastus L. (See Cox, James W., assignor.)
- Wald, Samuel, New York, N. Y. Detergent. No. 1,324,764; Dec. 9; v. 269; p. 336.
- Walda, William F., Fort Wayne, Ind., assignor to Deister Concentrator Company. Ore-concentrator. No. 1,321,577; Nov. 11; v. 268; p. 294.
- Walden, Albert E., Baltimore, Md. Ozone-generator. No. 1,316,342; Sept. 16; v. 266; p. 366.
- Walden, Harley A., West Terre Haute, Ind. Grate dumping and handling apparatus. No. 1,313,142; Aug. 12; v. 265; p. 278.
- Walden, Nathan D., David City, Nebr. Locking mechanism. No. 1,305,955; June 3; v. 263; p. 138.
- Walder, Edward, Kansas City, Mo. Electric heater. No. 1,308,211; July 1; v. 264; p. 38.
- Walder, Emil, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Manufacture of blue to greenish-blue coloring-matters of the gallocyanin series. No. 1,299,070; Apr. 1; v. 261; p. 104.
- Waldman, Herman C., St. Louis, Mo. Fire-door. No. 1,293,626; Feb. 4; v. 259; p. 152.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,318,002; Oct. 7; v. 267; p. 65.
- Waldo, Leonard, Plainfield, N. J., assignor to American Magnesium Corporation. Flash or flare product. No. 1,320,514; Nov. 4; v. 268; p. 29.
- Waldo, William W. (See Barton and Waldo.)
- Waldon, Sidney D., assignor to Cadillac Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,308,460; July 1; v. 264; p. 82.
- Waldon, Sidney D., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,316,547; Sept. 16; v. 266; p. 406.
- Waldon, Sidney D., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,323,508; Dec. 2; v. 269; p. 54.
- Waldorf Paper Products Company. (See Strite, Charles P., assignor.)
- Waldron, James M., Englewood, N. J., and J. P. Coleman, Edgewood borough, Pa. Railway-switch-operating apparatus. No. 1,300,307; Apr. 15; v. 261; p. 434.
- Wale, Charles, assignor to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Mortar for throwing projectiles. No. 1,322,980; Nov. 25; v. 268; p. 660.
- Wale, Charles, assignor to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Gun-mounting and means for carrying same on decks of ships. No. 1,323,129; Nov. 25; v. 268; p. 687.
- Walenter, George B., North Chicago, Ill. Valve. No. 1,315,438; Sept. 9; v. 266; p. 186.
- Wales Adding Machine Company. (See Birth, Charles, assignor.)
- Wales Adding Machine Company. (See Schuppe, Max, assignor.)
- Wales, Charles, New Haven, Conn., assignor, by mesne assignments, to The Federal Adding Machine Corporation, East Orange, N. J. Calculating-machine. No. 1,303,214; May 6; v. 262; p. 140.
- Wales, Nathaniel B., assignor to Kelvinator Company, Detroit, Mich. Refrigerating apparatus. No. 1,325,868; Dec. 23; v. 269; p. 620.
- Wales, Nathaniel B., assignor to R. D. Ward, New York, N. Y. Closure-cap for bottles and jars. No. 1,326,813; Dec. 30; v. 269; p. 835.
- Wales, Nathaniel B., assignor to R. D. Ward, New York, N. Y. Closure for containers. No. 1,326,885; Dec. 30; v. 269; p. 848.
- Wales, Rowland T., Seward, N. J. Mold for concrete construction. No. 1,308,269; July 1; v. 264; p. 48.
- Wales, Rowland T., Seward, N. J. Mold for concrete construction. No. 1,312,462; Aug. 5; v. 265; p. 115.
- Walk, Jasper J., Oakland, Cal. Rotary engine. No. 1,292,171; Jan. 21; v. 258; p. 573.
- Walk, Jasper J., Oakland, Cal. Roller-clutch. No. 1,296,345; Mar. 4; v. 260; p. 120.
- Walk, Jasper J., Oakland, Calif. Engine. No. 1,304,129; May 20; v. 262; p. 372.
- Walker & Bennett Manufacturing Company. (See Bennett, Frederick, assignor.)
- Walker Bin Company. (See Walker, Edwin J., Jr., assignor.)
- Walker Brothers Company. (See Walker, Willard R., assignor.)



## Alphabetical list of patentees—Continued.

- Walker, Donald H., Detroit, Mich. Brush. No. 1,309,495; July 8; v. 264; p. 302.
- Walker, Edward E., *et al.* (See Cox, John W., assignor.)
- Walker, Edwin J., Philadelphia, Pa. Bin. No. 1,318,306; Oct. 7; v. 267; p. 124.
- Walker, Edwin J., Jr., assignor to Walker Bin Company, Penn. Yan, N. Y. Counter-bracket. No. 1,295,647; Feb. 25; v. 259; p. 710.
- Walker, Forest A., assignor of one-third to W. A. Leach, Poplar Bluff, Mo. Crate. No. 1,315,061; Sept. 2; v. 266; p. 108.
- Walker, Frank H., Alhambra, Calif. Automatic water-heater. No. 1,326,237; Dec. 30; v. 269; p. 726.
- Walker, Frank H., Alhambra, Calif. Intermittent mechanical movement. No. 1,326,238; Dec. 30; v. 269; p. 726.
- Walker, Franklin R., Pittsburgh, Pa. Loading and unloading apparatus. No. 1,306,158; June 10; v. 263; p. 204.
- Walker, Frederick G., Detroit, Mich. Universal joint. No. 1,308,212; July 1; v. 264; p. 38.
- Walker, Gaines M., St. Louis, Mo. Basket. No. 1,308,824; July 8; v. 264; p. 177.
- Walker, George B., Lancaster, assignor of one-half to T. D. Waugaman, Lemoyne, Pa. Armored motor-truck. No. 1,319,194; Oct. 21; v. 267.
- Walker, George H., Willow Grove, Pa. Submarine signaling device. No. 1,300,062; Apr. 8; v. 261; p. 354.
- Walker, George L., Pueblo, Colo. Gear-shifting device. No. 1,300,676; Apr. 15; v. 261; p. 512.
- Walker, George L., assignor to The Walls Frogless Switch & Manufacturing Company, Kansas City, Mo. Swing-rail switch-frog. No. 1,309,002; July 8; v. 264; p. 211.
- Walker, George L., assignor to The Walls Frogless Switch & Manufacturing Company, Kansas City, Mo. Actuating device for swing-rail switches. No. 1,309,003; July 8; v. 264; p. 211.
- Walker, George L., New York, N. Y., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,310,099; July 15; v. 264; p. 451.
- Walker, George L., New York, N. Y., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,310,102; July 15; v. 264; p. 451.
- Walker, George L., New York, N. Y., assignor to Air Reduction Company, Inc. Cutting-blowpipes. No. 1,310,103; July 15; v. 264; p. 451.
- Walker, Harry S., *et al.* (See Jackson, Alfred A., assignor.)
- Walker, Henry B., Lancaster, Ohio. Locking device for well-pumping tools. No. 1,317,531; Sept. 30; v. 266; p. 675.
- Walker, Henry C. (See Kampe, Otto, assignor.)
- Walker, Henry C., New London, F. Enos, Jr., Norwich, assignors to The Norwich Automatic Feeder Company, New London, Conn. Deodorizer. No. 1,323,800; Dec. 2; v. 269; p. 108.
- Walker, Hepburn. (See Miller, John M., assignor.)
- Walker, Jack L., Dallas, Tex. Attachment for adding-machines. No. 1,290,432; Jan. 7; v. 258; p. 100.
- Walker, James, Carnarvon, Western Australia, Australia. Attachment for discharge of liquid from containers. No. 1,311,103; July 22; v. 264; p. 666.
- Walker, James W., assignor of one-half to G. L. Hogan, New York, N. Y. Apparatus for mixing or impregnating one liquid with another. No. 1,296,241; Mar. 4; v. 260; p. 97.
- Walker, James W., Jr., Winston-Salem, N. C. Gas generating and heating apparatus. No. 1,325,062; Dec. 16; v. 269; p. 453.
- Walker, Joah H., Woolwich, England. Metal reinforcement for concrete. No. 1,291,298; Jan. 14; v. 258; p. 330.
- Walker, Joah H., Old Charlton, England. Pad or pot sleeper for railway-tracks. No. 1,299,879; Apr. 8; v. 261; p. 316.
- Walker, John B., Birmingham, Ala. Producing solid casting and product. No. 1,294,209; Feb. 11; v. 259; p. 319.
- Walker, John B., Birmingham, Ala. Drying sand molds. No. 1,299,522; Apr. 8; v. 261; p. 234.
- Walker, John H., Lexington, Ky. Combination-tool. No. 1,313,432; Aug. 19; v. 265; p. 349.
- Walker, John R., Providence, R. I. Eye-protector. No. 1,307,223; June 17; v. 263; p. 435.
- Walker, Joseph L., Baton Rouge, La. Machine for setting saw-teeth. No. 1,321,344; Nov. 11; v. 268; p. 250.
- Walker, Leo J. (See Smith, Walter A., assignor.)
- Walker, Marion L., assignor of one-half to J. M. Freeman, Gordo, Ala. Wagon-brake. No. 1,299,071; Apr. 1; v. 261; p. 104.
- Walker, Matthew S., Corning, N. Y. Electric-light fixture. No. 1,310,936; July 22; v. 264; p. 635.
- Walker, Miles, Manchester, England. Electrical converter. No. 1,300,308; Apr. 15; v. 261; p. 435.
- Walker, Paul, assignor to Chicago Carton Company, Chicago, Ill. Display-box. No. 1,301,201; Apr. 22; v. 261; p. 660.
- Walker, R. S. (See Hurlley, Emil A., assignor.)
- Walker, Robert A., Des Moines, Iowa. Adjustable joint-locking device. No. 1,322,850; Nov. 25; v. 268; p. 635.
- Walker, Robert J. (See Parsons, Cook, and Walker.)
- Walker, Robert J. (See Parsons, Walker, Cook, and Douglas.)
- Walker, Robert J. (See Parsons, Walker, Cook, and Simon.)
- Walker, Samuel L., Corcoran, Calif. Device for turning trays. No. 1,310,379; July 15; v. 264; p. 501.
- Walker, Saul, Hamilton, Ontario, Canada. Automobile wheel-rim. No. 1,296,143; Mar. 4; v. 260; p. 75.
- Walker, Sheridan A., New York, N. Y., assignor to The Carson Company, Chicago, Ill. Car-seat construction. No. 1,301,019; Apr. 15; v. 261; p. 586.
- Walker, Sheridan A., New York, N. Y., assignor, by mesne assignments, to The Carson Company, Chicago, Ill. Rocker mechanism for car-seats. No. 1,301,020; Apr. 15; v. 261; p. 586.
- Walker, Sheridan A., New York, N. Y., assignor, by mesne assignments, to The Carson Company, Chicago, Ill. Car-seat back. No. 1,301,021; Apr. 15; v. 261; p. 587.
- Walker, Sturges G., Memphis, Tenn. Automobile signaling device. No. 1,304,423; May 20; v. 262; p. 429.
- Walker, Thomas H., Kansas City, Mo. Box-base for radiators. No. 1,320,187; Oct. 28; v. 267; p. 589.
- Walker, Timothy T., Buffalo, N. Y. Fluid-motor. No. 1,293,262; Feb. 4; v. 259; p. 67.
- Walker, Walter E., Garden Plain, Alberta, Canada. Bird-trap. No. 1,310,266; July 15; v. 264; p. 481.
- Walker, Willard R., Syracuse, N. Y. Valve. No. 1,304,519; May 20; v. 262; p. 449.
- Walker, Willard R., assignor to Walker Brothers Company, Syracuse, N. Y. Dish-cleaner. No. 1,297,943; Mar. 18; v. 260; p. 535.
- Walker, William A., Hawkesbury, Ontario, Canada. Indicator for aeroplanes. No. 1,291,299; Jan. 14; v. 258; p. 330.
- Walker, William B., New York, N. Y. Safety-razor. No. 1,311,428; July 29; v. 264; p. 760.
- Walker, William C., Meredith, N. H. Leg and foot rest. No. 1,315,264; Sept. 9; v. 266; p. 154.
- Walker, William E., Arkansas City, Kans. Recovery of gasoline and other hydrocarbons. No. 1,307,280; June 17; v. 263; p. 445.
- Walker, William E., Cottage Grove, Oreg. Cushion-tire. No. 1,315,062; Sept. 2; v. 266; p. 108.
- Walker, William H., North End, assignor of one-half to E. Goll, Kremlin, Okla. Railway-crossing signal. No. 1,292,172; Jan. 21; v. 258; p. 574.
- Walker, William J., Lacrosse, Wash. Hand oil-cup and chain pipe wrench combined. No. 1,301,202; Apr. 22; v. 261; p. 660.
- Walker, William L., New York, N. Y. Suspension apparatus. No. 1,290,433; Jan. 7; v. 258; p. 101.
- Walker, William L., Portland, Me. Garment-holder. No. 1,323,130; Nov. 25; v. 268; p. 687.
- Walker, William R., New York, N. Y. Producing steel and high-phosphorus slag. No. 1,299,072; Apr. 1; v. 261; p. 105.
- Walker, William R., New York, N. Y. Production of refined basic steel. No. 1,309,162; July 8; v. 264; p. 241.
- Walker, William R., New York, N. Y. Making acid steel. No. 1,309,496; July 8; v. 264; p. 303.
- Walker, William W., Camden, N. J., assignor, by mesne assignments, to Foamite Firefoam Company, New York, N. Y. Process of and apparatus for extinguishing fire. No. 1,299,272; Apr. 1; v. 261; p. 150.
- Walker, Willis E., Siesholtzville, Pa. Rail-fastener. No. 1,314,918; Sept. 2; v. 266; p. 82.
- Walkinshaw, Stewart M., *et al.* (See Jones, Robert W., assignor.)
- Walkos, Michael, Detroit, Mich. Resilient tire. No. 1,292,667; Jan. 28; v. 258; p. 713.
- Walkos, Michael, Detroit, Mich. Rotary gas-engine. No. 1,310,459; July 22; v. 264; p. 547.
- Walkup, John F., Emporia, Kans. Charge control for internal-combustion engines. No. 1,294,000; Feb. 11; v. 259; p. 270.
- Wall, Edward J., Syracuse, N. Y., assignor to Kalmus, Comstock & Westcott, Incorporated, Boston, Mass. Recovery of dye from solution. No. 1,297,046; Mar. 11; v. 260; p. 314.
- Wall, Edward J., Syracuse, N. Y., assignor to Kalmus, Comstock & Westcott, Incorporated, Boston, Mass. Dye recovery. No. 1,303,426; May 13; v. 262; p. 206.
- Wall, John D., and O. Ankam, Minneapolis, Minn. Fly catcher and swatter. No. 1,323,509; Dec. 2; v. 269; p. 54.
- Wall, Ormond E., Honolulu, Hawaii. Making artificial dentures and occluding-form for the same. No. 1,303,223; May 6; v. 262; p. 142.
- Wall, Ormond E., Honolulu, Hawaii. Toy boat. No. 1,306,362; June 10; v. 263; p. 245.
- Wall, Ormond E., Honolulu, Hawaii. Toy boat. No. 1,318,623; Oct. 14; v. 267; p. 245.
- Wall, Thomas F., Edgbaston, Birmingham, England. Obtaining sparkless breaks of electric circuits. No. 1,315,886; Sept. 9; v. 266; p. 267.
- Wall, William G., assignor to National Motor Car & Vehicle Corporation, Indianapolis Ind. Window-sash construction for automobiles. No. 1,318,624; Oct. 14; v. 267; p. 245.
- Wall, Willie F., San Francisco, Calif. Pen-point. No. 1,312,712; Aug. 12; v. 265; p. 193.
- Wallace, Alvie T. (See Swartz and Wallace.)



- Wallace, Benjamin B., Poughkeepsie, N. Y., assignor to Moline Plow Company. Wheeled plow. No. 1,303,427; May 13; v. 262; p. 206.
- Wallace, Charles, Los Angeles, Calif. Cleaning and polishing composition. No. 1,314,482; Aug. 26; v. 265; p. 582.
- Wallace, Charles F., Tompkinsville, and M. F. Tiernan, Jamaica, N. Y. Valve. No. 1,305,182; May 27; v. 262; p. 611.
- Wallace, Charles F., Tompkinsville, and M. F. Tiernan, Jamaica, N. Y. Method of and apparatus for pumping corrosive liquids. No. 1,308,515; July 1; v. 264; p. 92.
- Wallace, Clarence H., St. Helena, Calif. Computing-table. No. 1,298,267; Mar. 25; v. 260; p. 630.
- Wallace, Curtis C., Schenectady, N. Y., assignor to General Electric Company. Preparation of anhydrous magnesium chlorid. No. 1,301,766; Apr. 22; v. 261; p. 770.
- Wallace, Duncan M. (See Richmond, Thomas G., assignor.)
- Wallace, Francis J., assignor to Warren-Wallace Syndicate, Washington, D. C. Regulating device for internal-combustion engines. No. 1,326,381; Dec. 30; v. 269; p. 752.
- Wallace, Frank W., Chattanooga, Tenn. Shaving-brush. No. 1,297,944; Mar. 18; v. 260; p. 535.
- Wallace, Harry B., St. Louis, Mo. Tire. No. 1,318,119; Oct. 7; v. 267; p. 87.
- Wallace, Harry E., assignor of two-thirds to F. M. Fisher, Paducah, Ky. Means for automatically controlling electric headlights for automobiles. No. 1,304,000; May 20; v. 262; p. 349.
- Wallace, Harry G., Sag Harbor, N. Y. Fly-wheel attachment. No. 1,303,428; May 13; v. 262; p. 206.
- Wallace, Herbert A., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,294,731; Feb. 28; v. 259; p. 476.
- Wallace, James F. (See Couch and Wallace.)
- Wallace, John. (See Doyle and Wallace.)
- Wallace, John D., assignor to J. D. Wallace & Co., Chicago, Ill. Sawing appliance. No. 1,314,291; Aug. 26; v. 265; p. 545.
- Wallace, John W., Rutherford, N. J. Means and method for uniting the margins of flexible materials. No. 1,297,047; Mar. 11; v. 260; p. 314.
- Wallace, Lewis. (See Fogarty, Roger, assignor.)
- Wallace, Lewis R., Waltham, Mass., assignor to Nevins-Wallace Train Control Company. Train-control system. No. 1,305,757; June 3; v. 263; p. 100.
- Wallace, Sam C., Ruston, La. Radius-rod brace. No. 1,323,935; Dec. 2; v. 269; p. 134.
- Wallace, Shelby F. (See Jones, James F., assignor.)
- Wallace, Thomas P., Concord, N. H. Clasp for belts, suspenders, and the like. No. 1,317,186; Sept. 30; v. 266; p. 609.
- Wallace, Thomas P., Concord, N. H. Pipe-cleaner. No. 1,317,187; Sept. 30; v. 266; p. 609.
- Wallace, Venemon L., Murray, Utah. Canning-bucket. No. 1,302,253; Apr. 29; v. 261; p. 892.
- Wallace, William, Edinburgh, Scotland. Hydraulic tele-motor. No. 1,307,281; June 17; v. 263; p. 446.
- Wallach, Roger N., Wappingers Falls, N. Y. Manufacture of naphthol and allied products. No. 1,291,300; Jan. 14; v. 258; p. 331.
- Waller, Ellis H., Minneapolis, Minn. Car-stopping device. No. 1,317,339; Sept. 30; v. 266; p. 638.
- Waller, Carl R., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Governing mechanism for fluid-pressure motors. No. 1,311,931; Aug. 5; v. 265; p. 15.
- Waller, Charles E., Allentown, Pa., assignor to Independent Non-Freezing Powder Company, Newark, N. J. Nitrostarch explosive. No. 1,305,845; June 3; v. 263; p. 116.
- Waller, Charles E., Allentown, Pa., assignor to Independent Non-Freezing Powder Company, Newark, N. J. Nitrostarch explosive. No. 1,305,846; June 3; v. 263; p. 116.
- Waller, Charles W. (See Conger and Waller.)
- Waller, Charles W., Chicago, Ill. Sanitary fork. No. 1,322,981; Nov. 25; v. 268; p. 660.
- Waller, Forest E., Napoleon, Ohio. Convertible automobile-seat. No. 1,316,007; Sept. 16; v. 266; p. 304.
- Waller, John A., Highland Park, assignor to Expanded Wood Lath Corporation, Cook county, Ill. Expanded wood lath. No. 1,314,106; Aug. 26; v. 265; p. 510.
- Waller, John A., Chicago, assignor to Expanded Wood Lath Corporation, Cook county, Ill. Expanded wood lath. No. 1,314,107; Aug. 26; v. 265; p. 510.
- Waller, Oen F., Aberdeen, S. D., assignor to E. L. Grantham and W. G. Porter, Aberdeen, S. D. Safety apparatus for trucks, etc. No. 1,314,173; Aug. 26; v. 265; p. 522.
- Waller, Warren E., Charles City, assignor to F. P. Stone, Chicago, Ill. Wheel. No. 1,317,246; Sept. 30; v. 266; p. 620.
- Wallerstedt, Edward L., Ogden, Iowa. Paper-hanger's paper-rest. No. 1,294,577; Feb. 18; v. 259; p. 440.
- Wallertz, Frank, assignor to C. W. Shevlin, Chicago, Ill. Container. No. 1,294,210; Feb. 11; v. 259; p. 320.
- Wallisver, Carl, Hersey, Wis. Harrow attachment. No. 1,314,292; Aug. 26; v. 265; p. 546.
- Wallick, Carl P., Wheatridge, Colo. Celery-trencher. No. 1,316,987; Sept. 23; v. 266; p. 535.
- Wallin, Gustaf A., Scotch Plains, N. J., assignor to A. Kimball Company, New York, N. Y. Marking-ticket. No. 1,298,268; Mar. 25; v. 260; p. 630.
- Wallin, Gustav W., assignor to Gulbrandsen-Dickinson Company, Chicago, Ill. Pneumatic motor. No. 1,306,159; June 10; v. 263; p. 205.
- Walling, Carl H., Cat Spring, Tex. Clothes-rack. No. 1,308,564; July 1; v. 264; p. 102.
- Walling, William F., assignor to The Cementograph Company, Los Angeles, Calif. Producing imitative-tile flooring and the like. No. 1,311,362; July 29; v. 264; p. 748.
- Wallis, Barnes N. (See McKechnie and Wallis.)
- Wallis, Claude H., Myrtis, La. Safety-stirrups. No. 1,314,992; Sept. 2; v. 266; p. 95.
- Wallis, Cyril T., and R. C. Schwarz, assignors to Taylor Instrument Companies, Rochester, N. Y. Radiation-pyrometer. No. 1,318,516; Oct. 14; v. 267; p. 225.
- Wallis Tractor Company. (See Eason and Hendrickson, assignors.)
- Wallis, Walter C. (See Rutledge, Earl, assignor.)
- Wallman, Otto F., Stratford, Wis. Letter-carrier. No. 1,312,066; Aug. 5; v. 265; p. 40.
- Wallmann, Johann G., Oakland, Calif. Brake. No. 1,302,738; May 6; v. 262; p. 49.
- Wallmuth, August W., Elgin, Ill. Letter-sheet, envelop, and coin-holder. No. 1,306,647; June 10; v. 263; p. 297.
- Wallner, Rosa, Bisbee, Ariz. Process and apparatus for extracting ores. No. 1,326,125; Dec. 23; v. 269; p. 668.
- Walls Frogless Switch and Manufacturing Company. (See Ennis, Charles E., assignor.)
- Walls Frogless Switch & Manufacturing Company, The. (See Walker, George L., assignor.)
- Walls, James W., Kansas City, Mo. Switch operating and locking mechanism. No. 1,306,567; June 10; v. 263; p. 282.
- Walls, Marion C., Franklin township, Hendricks county, Ind., assignor of one-half to G. W. West, Amo, Ind. Pneumatic pump. No. 1,305,040; May 27; v. 262; p. 584.
- Wallwin, Josiah M., Warwick, England. Gas and air mixer. No. 1,312,147; Aug. 5; v. 265; p. 55.
- Walmsley, Robert, Didsbury, Manchester, England. Valve for pneumatic tires. No. 1,292,934; Jan. 28; v. 258; p. 775.
- Walpole, Nathaniel C., U. S. Army, assignor to the Secretary of War of the United States of America, in trust. Relining cannon. No. 1,309,163; July 8; v. 264; p. 242.
- Walpuski, Theodore G., New York, N. Y., and W. F. Koch, West New York, N. J., assignors to American Morocco Case Company, New York, N. Y. Flag-supporting attachment for flagpoles. No. 1,324,439; Dec. 9; v. 269; p. 275.
- Walraven, Albert T., Dallas, Tex. Adjustable book-cover. No. 1,308,461; July 1; v. 264; p. 82.
- Walraven, Albert T., Dallas, Tex. Book-cover protector. No. 1,325,127; Dec. 16; v. 269; p. 466.
- Walrus Manufacturing Company. (See Faries, Robert, assignor.) (Reissue.)
- Walser, Joseph J., assignor to The Goss Printing Press Company, Chicago, Ill. Linking mechanism. No. 1,313,433; Aug. 19; v. 265; p. 349.
- Walser, Joseph J., Chicago, and C. A. Dresser, Glencoe, assignors to The Goss Printing Press Company, Chicago, Ill. Tension mechanism for printing-presses. No. 1,304,923; May 27; v. 262; p. 562.
- Walsh, Edward B., and W. Schrier, Los Angeles, Calif. Folding hod. No. 1,325,820; Dec. 23; v. 269; p. 611.
- Walsh, Edward M., Manette, Wash. Stamp-receiver. No. 1,312,713; Aug. 12; v. 265; p. 193.
- Walsh, Emmet, San Antonio, Tex. Tube-expander. No. 1,306,982; June 17; v. 263; p. 391.
- Walsh, Frank, et al. (See Kanster, Jacob, assignor.)
- Walsh, George C., Sawtelle, Calif. Torpedo alarm-signal. No. 1,301,767; Apr. 22; v. 261; p. 770.
- Walsh Harness Company. (See Walsh, James M., assignor.)
- Walsh, Harrie H. (See Erskine, Clyde, assignor.)
- Walsh, James M., Milwaukee, Wis., assignor to Walsh Harness Company, Wilmington, Del. Neck-rope fastening. No. 1,318,420; Oct. 14; v. 267; p. 206.
- Walsh, James R., Jacksonville, Fla. Concrete ship. No. 1,292,174; Jan. 21; v. 258; p. 574.
- Walsh, John M., Petaluma, Calif. Street-traffic semaphore. No. 1,313,616; Aug. 19; v. 265; p. 384.
- Walsh, Joseph A., Philadelphia, Pa. Projectile. No. 1,302,996; May 6; v. 262; p. 99.
- Walsh, Joseph A., West New York, N. J. Liquid-dispenser. No. 1,311,628; July 29; v. 264; p. 797.
- Walsh, Joseph M. (See McVoy, Vincen P., assignor.)
- Walsh, Martin J., New York, N. Y. Fire-extinguishing apparatus. No. 1,315,353; Sept. 9; v. 266; p. 171.
- Walsh, Michael J., Montreal, Quebec, Canada. Casting strap-back brake-shoes. No. 1,315,804; Sept. 9; v. 266; p. 251.
- Walsh, Michael J., Montreal, Quebec, Canada. Apparatus for casting brake-shoes. No. 1,315,805; Sept. 9; v. 266; p. 251.



## Alphabetical list of patentees—Continued.

- Walsh, Richard, Mobile, Ala. Scotch marine boiler. No. 1,317,744; Oct. 7; v. 267; p. 16.
- Walsh, Stafford P., San Francisco, Calif. Focusing attachment for cameras. No. 1,314,030; Aug. 26; v. 265; p. 496.
- Walsh, Thomas J., et al. (See Kanster, Jacob, assignor.)
- Walsh, William E., Lowell, Mass. Means for removing fluff or dust from spinning-frame guides. No. 1,309,790; July 15; v. 264; p. 395.
- Walsh, William F., St. Paul, Minn. Glove-valve. No. 1,326,420; Dec. 30; v. 269; p. 761.
- Walsh, William E., Lowell, assignor to Draper Corporation, Hopedale, Mass. Boulder mechanism for spinning or winding machines. No. 1,299,639; Apr. 8; v. 261; p. 261.
- Walsh, William E., Lowell, assignor to Draper Corporation, Hopedale, Mass. Spinning or winding machine. No. 1,301,022; Apr. 15; v. 261; p. 587.
- Walsh, William J., Hamilton, Ontario, Canada. Adjustable container. No. 1,292,935; Jan. 28; v. 258; p. 776.
- Walton, Max, Washington, D. C. Skylight construction. No. 1,299,880; Apr. 8; v. 261; p. 316.
- Walter A. Wood Mowing & Reaping Machine Company. (See Smith, Ernest C., assignor.)
- Walter, Cecil M., Birmingham, England. Furnace for the heat treatment of metals. No. 1,303,429; May 13; v. 262; p. 206.
- Walter E. Lummus Company, The. (See Lichtenthaler, Frank E., assignor.)
- Walter, Edward C., New York, N. Y., assignor to H. T. Ambrose, Orange, N. J. Traveling computing attachment. No. 1,295,396; Feb. 25; v. 259; p. 651.
- Walter, Edward C., New York, N. Y., assignor to H. T. Ambrose, Orange, N. J. Calculating-machine. No. 1,325,969; Dec. 23; v. 269; p. 639.
- Walter, Ernest, Montclair, N. J. Making porous concrete. No. 1,313,931; Aug. 26; v. 265; p. 476.
- Walter, Erwin, assignor to the firm of Argovia A.-G., Meltingen, Aargau, Switzerland. Guide-plate for the bobbins of brading-machines. No. 1,315,265; Sept. 9; v. 266; p. 155.
- Walter, Frank L., Dayton, Ohio. Amplifying-gage. No. 1,290,434; Jan. 7; v. 258; p. 101.
- Walter, George, Shelby township, Ripley county, Ind. Willow-bark remover. No. 1,310,223; July 15; v. 264; p. 473.
- Walter H. Bowes Co. (See Dodge, Otis W., assignor.)
- Walter, Hugo J., assignor to Consolidated Machine Company, Bradford, Pa. Apparatus for manufacturing window-glass cylinders. No. 1,318,190; Oct. 7; v. 267; p. 101.
- Walter, John. (See Leicht, Louis, assignor.)
- Walter, John W., Kingman, Kans. Device for pulling automobiles out of mudholes. No. 1,324,706; Dec. 9; v. 269; p. 325.
- Walter, Maud E., Hayward, Wis. Buttonhole-gage. No. 1,300,900; Apr. 15; v. 261; p. 560.
- Walter, Maurice, New York, N. Y. Motor-vehicle. No. 1,301,342; Apr. 22; v. 261; p. 689.
- Walter, Maurice, New York, N. Y. Driving-wheel for motor-vehicles. No. 1,309,266; July 8; v. 264; p. 260.
- Walter, Maurice C., New York, N. Y. Egg-container. No. 1,292,173; Jan. 21; v. 258; p. 574.
- Walter, Rudolph, Cleveland, Ohio. Convertible chair. No. 1,299,881; Apr. 8; v. 261; p. 316.
- Walters, B. T. (See Hastings, Cornelius G., assignor.)
- Walters, Francis M., Warrensburg, Mo. Measuring instrument. No. 1,302,997; May 6; v. 262; p. 99.
- Walters, Frank E., Toledo, Ohio. Concrete-wall construction and forming same. No. 1,325,063; Dec. 16; v. 269; p. 453.
- Walters, Henry F., Chicago, Ill. Saw-guard. No. 1,312,651; Aug. 12; v. 265; p. 182.
- Walters, John J., Buffalo, N. Y. Cooler for liquids. No. 1,297,760; Mar. 18; v. 260; p. 496.
- Walters, Roger L., Fort Dodge, Iowa. Toy submarine. No. 1,301,768; Apr. 22; v. 261; p. 770.
- Waltham Watch Company. (See Ohlson, Olof, assignor.)
- Waltham Watch Company. (See Tesla, Nikola, assignor.)
- Waltham Watch Company. (See Wood, Gleason, assignor.)
- Walther, Carl, assignor to Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany. Thread-tightener of warp-ooms. No. 1,318,625; Oct. 14; v. 267; p. 246.
- Walther, Fred, Omaha, Nebr. Collapsible poultry-crate. No. 1,303,746; May 13; v. 262; p. 264.
- Walther, George, Dayton, Ohio. Metal wheel. No. 1,293,263; Feb. 4; v. 259; p. 67.
- Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. No. 1,304,130; May 20; v. 262; p. 372.
- Walther, Gustav, Crefeld, Germany. Precipitation of viscose for the production of artificial threads and other structures. No. 1,292,544; Jan. 28; v. 258; p. 683.
- Walther, Otto, Bloomington, Ill. Beet-topper. No. 1,310,849; July 22; v. 264; p. 620.
- Walton, Clinton E., Livingston, Mont. Dividers. No. 1,303,747; May 13; v. 262; p. 264.
- Walton, Joseph C., Minerva, Ohio. Carbureter. No. 1,294,578; Feb. 18; v. 259; p. 440.
- Walton, Joseph S., Burley, Idaho. Puncture-proof automobile-tire. No. 1,300,063; Apr. 8; v. 261; p. 355.
- Walton, Walter H., and H. D. Tappan, Philadelphia, Pa. Matrix-drying press. No. 1,301,888; Apr. 29; v. 261; p. 824.
- Walton, William L., Bantury, N. D. Power-plow lift. No. 1,310,453; July 22; v. 264; p. 546.
- Walty, Arthur R., New York, N. Y. Ice-box. No. 1,314,108; Aug. 26; v. 265; p. 510.
- Waltz, George R. (See Breyer, Hall, and Waltz.)
- Waltz, Herbert E., assignor of one-half to G. H. Harris, Stockton, Cal. Belt-tightener. No. 1,293,264; Feb. 4; v. 259; p. 67.
- Wampler, Luther M., Liberal, Kans. Automatic pressure-relief valve for pneumatic tires. No. 1,315,173; Sept. 2; v. 266; p. 128.
- Wampler, William M., New York, and G. E. Henry, Bellmore, N. Y. Latch mechanism. No. 1,318,626; Oct. 14; v. 267; p. 246.
- Wanamaker, Charles B., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Roller-cord hook. No. 1,292,545; Jan. 28; v. 258; p. 683.
- Wanamaker, Ernest, Chicago, Ill. Flexible-pipe coupling. No. 1,309,830; July 15; v. 264; p. 402.
- Wanamaker, Henry, Albany, N. Y. Pump. No. 1,303,621; May 13; v. 262; p. 241.
- Wanamaker, Roscoe L., Toledo, Ohio. Train-despatch deliverer. No. 1,306,506; June 10; v. 263; p. 271.
- Wanamaker, Roscoe L., Toledo, Ohio. Railway despatch-deliverer. No. 1,312,652; Aug. 12; v. 265; p. 182.
- Wang, Theodore, Clearwater, Fla. Citrus-fruit washer and drier. No. 1,319,541; Oct. 21; v. 267; p. 445.
- Wanner, Albert, Jr., New York, N. Y. Fitting-stool. No. 1,301,203; Apr. 22; v. 261; p. 661.
- Wanner, Albert, Jr., New York, N. Y. Fitting-stool. No. 1,310,108; July 15; v. 264; p. 452.
- Wanner, Albert, Jr., New York, N. Y. Chair. No. 1,324,186; Dec. 9; v. 269; p. 225.
- Wanner, George D., Dayton, Ohio. Kite. No. 1,321,957; Nov. 18; v. 268; p. 416.
- Wanner, George W., Baltimore, Md. Water-heater. No. 1,326,700; Dec. 30; v. 269; p. 812.
- Wanstrath, Theodore, New Point, Ind. Ensilage-packer. No. 1,303,129; July 1; v. 264; p. 23.
- Wappler Electric Co. (See Fayer, Charles, assignor.)
- Wappler Electric Company. (See Wappler, Reinhold H., assignor.)
- Wappler, Reinhold H., New York, N. Y., assignor to Wappler Electric Company, Inc. Surgical instrument. No. 1,303,135; May 6; v. 262; p. 126.
- Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. High-tension rotary rectifier. No. 1,320,106; Oct. 28; v. 267; p. 575.
- Ward, Albert F., San Francisco, Cal. Advertising device. No. 1,290,688; Jan. 7; v. 258; p. 163.
- Ward, Albert M., Rochester, N. Y. Signal. No. 1,310,813; July 22; v. 264; p. 614.
- Ward, Alexander L., New York, N. Y. Band-securing device. No. 1,299,882; Apr. 8; v. 261; p. 316.
- Ward, Alexander L., New York, N. Y. Strap-securing apparatus. No. 1,316,126; Sept. 16; v. 266; p. 325.
- Ward, Artemas. (See Spaulding, Elijah F., assignor.)
- Ward, Arthur, Seattle, Wash. Side bearing for mono-rail cars. No. 1,291,301; Jan. 14; v. 258; p. 331.
- Ward Baking Company. (See Kohman, Godfrey, and Ashe, assignors.)
- Ward Baking Company, The. (See Kohman, Irvin, and Cross, assignors.)
- Ward, Charles A., Mount Vernon, N. Y. Motor-vehicle. No. 1,309,164; July 8; v. 264; p. 242.
- Ward, Charles A., Mount Vernon, N. Y. Combined bumper, step, and dash. (Reissue.) No. 14,758; Nov. 18; v. 268; p. 521.
- Ward, David H., Seattle, Wash. Means for cutting and removing the ends of cans. No. 1,321,578; Nov. 11; v. 268; p. 294.
- Ward, David R., assignor to The Ward Nail Company, Struthers, Ohio. Dry galvanizing. No. 1,294,001; Feb. 11; v. 259; p. 271.
- Ward, Edward S., San Jose, Calif. Explosive shell. No. 1,309,669; July 15; v. 264; p. 373.
- Ward, Frank, Blackburn, and H. Fleming, Abbey Village, near Chorley, England. Device for facilitating the threading or drawing-in of weaving-warp. No. 1,292,175; Jan. 21; v. 258; p. 574.
- Ward, Fred J., Long Beach, Calif. Gas-burner. No. 1,309,922; July 15; v. 264; p. 419.
- Ward, Frederick H., Brooklyn, N. Y. Electric box. No. 1,304,226; May 20; v. 262; p. 390.
- Ward, Garret H., Tillamook, Ore. Cow-stanchion. No. 1,309,497; July 8; v. 264; p. 303.
- Ward, Harold R. (See Rafert, John D., assignor.)
- Ward, Harry I., Washington, Iowa. Eaves-trough protector. No. 1,308,311; July 1; v. 264; p. 56.
- Ward, Henry L. (See Malcolmson and Ward.)
- Ward, James C., New York, N. Y. Extendible wings. No. 1,324,218; Dec. 9; v. 269; p. 232.
- Ward, James J., Greene, assignor of thirty-five one-hundredths to I. C. De Beuckelaere and twenty one-hundredths to W. G. Matthews, Dayton, Ohio. Sound-amplifier. No. 1,301,526; Apr. 22; v. 261; p. 723.



- Ward, James N., assignor of one-fourth to L. M. Reck and one-fourth to H. Burrmann, Davenport, Iowa. Shock-absorber for vehicles. No. 1,323,207; Nov. 25; v. 268; p. 703.
- Ward, Jean S. (See Ward, William A., assignor.)
- Ward, John A., Pittsburgh, Pa. Signaling device for automobiles. No. 1,318,627; Oct. 14; v. 267; p. 246.
- Ward, John J., Seattle, Wash. Rotary engine. No. 1,326,313; Dec. 30; v. 269; p. 740.
- Ward, John P., McKinney, Tex. Internal-combustion engine. No. 1,307,282; June 17; v. 263; p. 446.
- Ward, John T., Los Angeles, Calif. Dust-cap for tire-valves. No. 1,304,424; May 20; v. 262; p. 430.
- Ward, Joseph, East Huntington, W. Va. Rail-joint. No. 1,323,617; Dec. 2; v. 269; p. 74.
- Ward Leonard Electric Co. (See Kebler, Leonard, assignor.)
- Ward Leonard Electric Company. (See Camp, George W., assignor.)
- Ward Leonard Electric Company. (See Schwagermann, William, assignor.)
- Ward, Lynford A., and W. D. Chase, Brooklyn, N. Y. License-tag for vehicles. No. 1,303,834; May 13; v. 262; p. 281.
- Ward Nail Company, The. (See Ward, David R., assignor.)
- Ward, Orin W., New York, N. Y. Container. No. 1,290,689; Jan. 7; v. 258; p. 164.
- Ward, Richard D. (See Wales, Nathaniel B., assignor.)
- Ward, William A., assignor to J. S. Ward, Los Angeles, Calif. Seeder and fertilizer distributor. No. 1,303,136; May 6; v. 262; p. 126.
- Ward, William M., Wyandotte, Mich. Phonograph-disk-record-holding cabinet. No. 1,310,814; July 22; v. 264; p. 614.
- Ward, William T. (See Wiggins, Wade, assignor.)
- Wardell, Benjamin F., Spokane, Wash. Radius-rod for vehicles. No. 1,318,191; Oct. 7; v. 267; p. 101.
- Wardell, Edward T., St. Paul, Minn. Transparent vacuum-jacket for liquid-dispensing bottles. (Reissue.) No. 1,4629; Apr. 1; v. 261; p. 182.
- Wardell, Fred. (See Stecker, Alfred J., assignor.)
- Wardell, Henry R., Yonkers, N. Y., assignor to Central Commercial Company, Chicago, Ill. Shingle. No. 1,325,546; Dec. 23; v. 269; p. 560.
- Wardell, Henry R., Chicago, Ill., assignor, by mesne assignments, to H. W. Johns-Manville Company. Roofing-clamp. No. 1,321,958; Nov. 18; v. 268; p. 416.
- Wardell, Thomas, Birmingham, assignor to The Mencom-Elma Syndicate Limited, London, England. Pedal-operated controller for electromagnetic change-speed gears. No. 1,319,542; Oct. 21; v. 267; p. 446.
- Warden, Howard C., Jr. (See Warden, John R. and H. C., Jr.)
- Warden, John R. and H. C., Jr., Paducah, Ky. Automatically-extinguishing electric-lighting system. No. 1,297,945; Mar. 18; v. 260; p. 535.
- Warder, James E., Chicago, Ill. Tire-shoe. No. 1,292,176; Jan. 21; v. 258; p. 574.
- Wardlow, Hays, assignor of one-half to L. Hering, Naylor, Mo. Wheel-cultivator. No. 1,299,073; Apr. 1; v. 261; p. 105.
- Wardwell Braiding Machine Company. (See Wardwell, Simon W., assignor.)
- Wardwell, Simon W., Providence, R. I., assignor to Wardwell Braiding Machine Company, Portland, Me. Thread conditioning and manipulating device. No. 1,316,210; Sept. 16; v. 266; p. 341.
- Ware, Joseph L., St. Paul, Minn. Motor-vehicle. No. 1,317,841; Oct. 7; v. 267; p. 35.
- Ware, Joseph L., St. Paul, Minn. Ball-bearing universal joint. No. 1,317,842; Oct. 7; v. 267; p. 35.
- Ware, Rodney B., Springfield, Mass. Sketch-board. No. 1,290,811; Jan. 7; v. 258; p. 192.
- Ware, Simeon A., Tignal, Ga. Plow. No. 1,298,837; Apr. 1; v. 261; p. 51.
- Ware, Walter, Chicago, Ill. Roller-skate. No. 1,294,984; Feb. 18; v. 259; p. 534.
- Warfield, John M., Harrison, N. J., assignor of one-half to J. C. Schrade, Rockaway Beach, N. Y. Sanitary garbage-receptacle. No. 1,319,024; Oct. 14; v. 267; p. 322.
- Warfvinge, Karl H. (See Werner and Warfvinge.)
- Waring, Fred B., Kansas City, Mo., assignor to The Oil Well Heating Company. Process and apparatus for stimulating the production of oil. No. 1,291,302; Jan. 14; v. 258; p. 331.
- Waring, Olaf I., Long Island City, N. Y. Filling-machine. No. 1,294,579; Feb. 18; v. 259; p. 440.
- Warland Dual Rim Company, The. (See Dukes, William, assignor.)
- Warland Dual Rim Company, The. (See Wright and Dukes, assignors.)
- Warman, Percy S., Roselle, N. J., assignor to The Fundamental Corporation, New York, N. Y. Radiator-guard. No. 1,306,363; June 10; v. 263; p. 245.
- Warman, Percy S., Roselle, N. J., assignor to The Fundamental Corporation, New York, N. Y. Radiator-guard. No. 1,306,364; June 10; v. 263; p. 246.
- Warman, Percy S., Roselle, N. J. Mold for concrete ships. No. 1,308,565; July 1; v. 264; p. 102.
- Warman, Samuel W., Brownsville, assignor of one-third to R. M. Fry, Uniontown, and one-third to C. Oppermann, Orient, Pa. Automatically-operated mine-gate. No. 1,299,074; Apr. 1; v. 261; p. 105.
- Warne, Ivar F., Syracuse, N. Y., and J. C. Taliaferro, Baltimore, Md., assignors to Continental Can Company, Incorporated, Syracuse, N. Y. Multiple-spindle double seamer. No. 1,306,648; June 10; v. 263; p. 297.
- Warne, Ivar F., assignor to Continental Can Company, Inc., Syracuse, N. Y. Can-closing machine. No. 1,307,888; June 24; v. 263; p. 589.
- Warmick, Annetta. (See Warmick, Henry and A.)
- Warmick, Henry and A., assignors of one-third to J. Ford and S. Barnett, Grand Rapids, Mich. Apparatus for transmitting and recording messages. No. 1,314,721; Sept. 2; v. 266; p. 47.
- Warnecke, Harry W., New York, N. Y. Observation device. No. 1,302,254; Apr. 29; v. 261; p. 892.
- Warneke, Henry F., Jr., et al. (See Chambers, John A., assignor.)
- Warneke, Henry F., Sr., et al. (See Chambers, John A., assignor.)
- Warner, Andrew R., assignor to Lakeside Hospital, Cleveland, Ohio. Purifying nitrous oxid. No. 1,315,354; Sept. 9; v. 266; p. 171.
- Warner, Arthur L., Moline, Ill. Roll forging and forming. No. 1,325,768; Dec. 23; v. 269; p. 601.
- Warner, Arthur W. (See Carpenter and Warner.)
- Warner Electric Company. (See Loughheed, Victor, assignor.)
- Warner Elevator Mfg. Company, The. (See Shepard, Oscar F., assignor.)
- Warner, Frank H., assignor of one-half to W. H. Warner, Toledo, Ohio. Burner. No. 1,297,048; Mar. 11; v. 260; p. 314.
- Warner, George R. (See Richardson, Edward J. and J. R., assignors.) (Reissue.)
- Warner, James L., Girard, Kans. Violin-piano. No. 1,309,004; July 8; v. 264; p. 211.
- Warner-Jansen Company et al. (See Jansen, Jesse, Jr., assignor.)
- Warner, John F., Muncie, Ind. Power-transmission device. No. 1,319,497; Oct. 21; v. 267; p. 437.
- Warner, Joshua H., Victoria, British Columbia, Canada. Bolt. No. 1,291,303; Jan. 14; v. 258; p. 331.
- Warner Manufacturing Company. (See Cadman, Addi B., assignor.) (Reissue.)
- Warner, Oliver L. (See Simpson, William I., assignor.)
- Warner, Paul C., New Rochelle, and R. W. Blodgett, New York, N. Y. Ship's patch. No. 1,301,204; Apr. 22; v. 261; p. 661.
- Warner, Thomas D., Jonesboro, Ark. Periscope. No. 1,300,901; Apr. 15; v. 261; p. 561.
- Warner, William F., Fredericksburg, Iowa. Ensilage-cutter. No. 1,304,001; May 20; v. 262; p. 349.
- Warner, William H. (See Warner, Frank H., assignor.)
- Warnick, Clarence J. (See Shuttleworth, Charles J., assignor.)
- Warnke, Clarence F., Toledo, Ohio. Tacking-machine. No. 1,310,590; July 22; v. 264; p. 572.
- Warnock, Robert, assignor to Empire Cream Separator Company, Bloomfield, N. J. Air-pump. No. 1,305,758; June 3; v. 263; p. 100.
- Warnock, Robert, assignor to Empire Cream Separator Company, Bloomfield, N. J. Muffler construction for air-pumps and the like. No. 1,310,722; July 22; v. 264; p. 596.
- Warnock, Robert, assignor to Empire Cream Separator Company, Bloomfield, N. J. Air-pump. No. 1,322,273; Nov. 18; v. 268; p. 475.
- Warr, Harold G., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,301,625; Apr. 22; v. 261; p. 741.
- Warren, Albert L., Ray, Ariz. Auger. No. 1,293,265; Feb. 4; v. 259; p. 68.
- Warren, Alva S., Batavia, N. Y. Propeller. No. 1,296,242; Mar. 4; v. 260; p. 97.
- Warren, Charles H., Atlanta, Ga., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,322,851; Nov. 25; v. 268; p. 635.
- Warren, Charles K., assignor to The Warren Featherbone Co., Three Oaks, Mich. Legging. No. 1,324,484; Dec. 9; v. 269; p. 284.
- Warren, Edward B., Garnet, Mont. Shipping-carton. No. 1,318,628; Oct. 14; v. 267; p. 246.
- Warren, Edward C., Fort Myers, Fla. Clam-dredge. No. 1,318,517; Oct. 14; v. 267; p. 225.
- Warren, Edward S., San Francisco, Calif. Exchange-receptacle for merchandise. No. 1,297,761; Mar. 18; v. 260; p. 497.
- Warren, Frank H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,312,598; Aug. 12; v. 265; p. 171.
- Warren Featherbone Co., The. (See Haman and Schmidt, assignors.)
- Warren Featherbone Co., The. (See Warren, Charles K., assignor.)
- Warren Featherbone Company, The. (See Holdred, Frank R., assignor.)



## Alphabetical list of patentees—Continued.

- Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting heel-lift stock. No. 1,321,169; Nov. 11; v. 268; p. 216.
- Warren, Henry E., assignor to The Lombard Governor Company, Ashland, Mass. Fluid-operated lathe. No. 1,299,883; Apr. 8; v. 261; p. 317.
- Warren, Henry J., Bayonne, N. J. Constructing and connecting artificial teeth. No. 1,295,244; Feb. 25; v. 259; p. 617.
- Warren, J. William, Kansas City, Mo. Adzing-machine for railway cross-ties. No. 1,300,064; Apr. 8; v. 261; p. 355.
- Warren, James A., Council, Idaho, assignor of forty-nine one-hundredths to W. G. Ste. Marie, Shaniko, Oreg. Nut-lock. No. 1,302,105; Apr. 29; v. 261; p. 864.
- Warren, James C., Fredericksburg, Va. Recording mechanism. No. 1,300,525; Apr. 15; v. 261; p. 481.
- Warren, John R., Grand Rapids, Mich. Casing for the crank-shafts of internal-combustion engines. No. 1,293,266; Feb. 4; v. 259; p. 68.
- Warren, John R., assignor of one-half to W. L. McCracken, Commerce, Okla. Spring-wheel. No. 1,298,269; Mar. 25; v. 260; p. 630.
- Warren, Mima S., Wagner, S. D. Folding stand. No. 1,291,304; Jan. 14; v. 258; p. 332.
- Warren Refining & Chemical Company, The. (See Cannon, Edson L., assignor.)
- Warren-Wallace Syndicate. (See Wallace, Francis J., assignor.)
- Warren Webster & Co. (See Serrell and Fitts, assignors.)
- Warren Webster & Company. (See Jay, Edward G., Jr., assignor.)
- Warren Webster & Company. (See Lukens, William H., assignor.)
- Warren Webster & Company. (See Rohlin, Karl W., assignor.)
- Warrick, Charles F., assignor to United States Window Glass Company, Morgantown, W. Va. Cylinder-splitting apparatus. No. 1,320,947; Nov. 4; v. 268; p. 111.
- Warrener, James, Jr. (See Warrener, James, Sr., assignor.)
- Warrener, James, Sr., Fall River, Mass., assignor of one-half to J. Warrener, Jr., Washington, D. C. Pitman. No. 1,298,424; Mar. 25; v. 260; p. 662.
- Warriner, Walter, Fort Wayne, Ind. Feeder for water-softening plants. No. 1,326,553; Dec. 30; v. 269; p. 785.
- Warring, Royal C., assignor of one-half to W. F. Bossert, Utica, N. Y. Electric signal system. No. 1,296,346; Mar. 4; v. 260; p. 120.
- Warshauer, Alexander, Cambridge, Mass. Shirt. No. 1,313,932; Aug. 26; v. 265; p. 476.
- Warther, Fred, Dover, Ohio. Roll-polisher. No. 1,292,177; Jan. 21; v. 258; p. 575.
- Warwick, Rogers M., assignor to General Wire Tie Company, Chicago, Ill. Machine for tying objects with wire. No. 1,293,267; Feb. 4; v. 259; p. 68.
- Warwick, Rogers M., assignor to General Wire Tie Co., Chicago, Ill. Machine for tying objects with wire. No. 1,305,422; June 3; v. 263; p. 36.
- Warwick, Rogers M., assignor to General Wire Tie Company, Chicago, Ill. Tying-machine. No. 1,320,515; Nov. 4; v. 268; p. 29.
- Warwood Tool Company. (See Tyler, Samuel T., assignor.)
- Waschau, Frederick W., Kansas City, Mo. Automatic stop for phonographs. No. 1,293,268; Feb. 4; v. 259; p. 68.
- Waschek, Franz, Hamtramck, Mich. Reed-organ. No. 1,307,715; June 24; v. 263; p. 558.
- Waschko, Michael G. (See Gasper, George C., Jr., assignor.)
- Washburn, Chester A., Springfield, Mass. Leg-rest. No. 1,296,722; Mar. 11; v. 260; p. 239.
- Washburn, Emma E. (See Stradling and Washburn.)
- Washburn, Frank S. (See Landis, Walter S., assignor.)
- Washburn, Frank S., Rye, assignor to American Cyanamid Company, New York, N. Y. Method of and apparatus for producing phosphoric acid and compounds of the same. No. 1,314,229; Aug. 26; v. 265; p. 534.
- Washburn, George H. (See Washburn, George P., assignor.)
- Washburn, George P., Los Angeles, Calif. Acetylene-burner. No. 1,311,731; July 29; v. 264; p. 817.
- Washburn, George P., Los Angeles, Calif., assignor of one-half to G. H. Washburn, Bremerton, Wash. Gas and air mixer. No. 1,314,919; Sept. 2; v. 266; p. 82.
- Washburn, George S., Blairtown, Iowa. Trailer-vehicle. No. 1,293,269; Feb. 4; v. 259; p. 68.
- Washburn, Herbert L., Laurel Springs, N. J. Traction device. No. 1,325,220; Dec. 16; v. 269; p. 483.
- Washburn, John E., and A. E. Shaw, Lakewood, Ohio. Fillet material. No. 1,303,430; May 13; v. 262; p. 207.
- Washburn, John S. (See Stidham and Washburn.)
- Washburne, Alva C., et al. (See Hammond, Grant, assignor.)
- Washburne, James V., Fulton, N. Y. Rotary cutter for envelop-openers. No. 1,300,792; Apr. 15; v. 261; p. 537.
- Washburne, William H., Chicago, Ill. Engine-starter. No. 1,303,431; May 13; v. 262; p. 207.
- Washington Steel & Ordnance Company. (See Dalton, William, assignor.)
- Washington Steel & Ordnance Company. (See McKenna and Dalton, assignors.)
- Wasowski, Wladyslaw. (See Molencki, Edward, assignor.)
- Wasserberger, Jacob, New York, N. Y. Fuse-link. No. 1,310,314; July 15; v. 264; p. 490.
- Wassing, Ollie M. (See Grady, George R., assignor.)
- Wasson, Frank A., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Bumper-bar. No. 1,317,112; Sept. 23; v. 266; p. 559.
- Wasson, Robert B., Cranford, N. J. Piston. No. 1,320,188; Oct. 28; v. 267; p. 590.
- Wasylowich, Pankracy, Chelsea, Mass. Gas-mask. No. 1,299,075; Apr. 1; v. 261; p. 105.
- Watanabe, Bunzo, Salt Lake City, Utah. Coke-rake. No. 1,291,305; Jan. 14; v. 258; p. 332.
- Waterbury Battery Company. (See Schoenmehl, Charles B., assignor.)
- Waterbury Battery Company, The. (See Schoenmehl and Martus, assignors.)
- Waterbury Clock Co. (See Hurni, Henry B., assignor.)
- Waterbury Clock Co. (See Larkin, William J., assignor.)
- Waterbury Clock Co. (See Sears, George H., assignor.)
- Waterbury Clock Co. (See Wehinger, Frederick, assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Nolan, Thomas, assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox and Nolan, assignors.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox and Petitjean, assignors.)
- Waterbury Jewel Company, The. (See Neuberth and Grilley, assignors.)
- Waterbury Mfg. Co. (See Horan, Maurice, assignor.)
- Waterbury Mfg. Co. (See Recker, Adolph C., assignor.)
- Waterbury Mfg. Co. (See Wellington, Arthur W., assignor.)
- Waterbury Tool Co., The. (See Williams, Harvey D., assignor.)
- Waterbury Tool Company, The. (See Janney, Reynold, assignor.)
- Waterfield, George, Syracuse, N. Y. Combination-lock. No. 1,300,793; Apr. 15; v. 261; p. 537.
- Waterfield, John, Providence, assignor, by mesne assignments, to Shannock Narrow Fabric Company, Pawtucket, R. I. Knitting-machine. No. 1,306,321; June 10; v. 263; p. 237.
- Waterloo Gasoline Engine Company. (See Daniel, Wilmer H., assignor.)
- Waterloo Gasoline Engine Company. (See Highland, Jacob B., assignor.)
- Waterloo, John, New Eagle, assignor to Window Glass Machine Company, Pittsburgh, Pa. Glass-cutting machine. No. 1,296,886; Mar. 11; v. 260; p. 278.
- Waterloo, John, New Eagle, assignor to Window Glass Machine Company, Pittsburgh, Pa. Apparatus for cutting glass. No. 1,324,219; Dec. 9; v. 269; p. 232.
- Waterloo-Playford Silo Company. (See Trost and Klein, assignors.)
- Waterman, Albert A., Mansfield, Mass. Marking-machine. No. 1,292,936; Jan. 28; v. 258; p. 776.
- Waterman, Frank W., Baltimore, Md., assignor to Keyes Fibre Company, Waterville, Me. Conveyor for pulp articles. No. 1,292,178; Jan. 21; v. 258; p. 575.
- Waterman, Frank W., Baltimore, Md., assignor to Keyes Fibre Company, Waterville, Me. Machine for molding articles from pulp. No. 1,300,677; Apr. 15; v. 261; p. 512.
- Waterman, Herbert R., San Francisco, Calif. Non-skid tire. No. 1,301,343; Apr. 22; v. 261; p. 689.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Cultivator. No. 1,294,580; Feb. 18; v. 259; p. 440.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Potato-planter. No. 1,305,423; June 3; v. 263; p. 36.
- Watford Manufacturing Company Limited, The. (See Rae, James, assignor.)
- Waterman, Maude E., et al. (See Errington, George A., assignor.)
- Waterman, Max L., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Sewing-machine. No. 1,318,629; Oct. 14; v. 267; p. 246.
- Waterman-Waterbury Company, The. (See Cross, John H., assignor.)
- Waterman, Willis E., et al. (See Errington, George A., assignor.)
- Waters, Arthur C., Newcastle, New South Wales, Australia. Dumping barge or lighter. No. 1,306,322; June 10; v. 263; p. 238.
- Waters, Charles, New York, N. Y. Brush-binder. No. 1,292,546; Jan. 28; v. 258; p. 684.
- Waters, Clarence J. (See Mantion, Edwin W., assignor.)
- Waters, Daniel E., St. Paul, Minn. Display-sign. No. 1,313,434; Aug. 19; v. 265; p. 349.



- Waters, John C., Epworth, Ga. Plow. No. 1,309,498; July 8; v. 264; p. 303.
- Waters, Thomas W., Detroit, Mich. Clamp. No. 1,320,590; Nov. 4; v. 268; p. 44.
- Watkins, Arthur G., Philadelphia, Pa. Water-power plant. No. 1,308,649; July 1; v. 264; p. 117.
- Watkins, Arthur M., *et al.* (See Moore, William J., assignor.)
- Watkins, Charles D., Newark, N. J. Shoe-polisher. No. 1,308,462; July 1; v. 264; p. 83.
- Watkins, Charles P. (See Richards and Watkins.)
- Watkins, Charles W., Dorranceton, Pa. Railway-brake. No. 1,322,852; Nov. 25; v. 268; p. 635.
- Watkins, Edward, Hayside, N. Y. Hydrocarbon-burner. No. 1,324,863; Dec. 16; v. 269; p. 416.
- Watkins, Edward G., and C. A. Brown, assignors to Heywood Brothers and Wakefield Company, Gardner, Mass. Supporting-foot for articles of furniture. No. 1,309,868; July 15; v. 264; p. 409.
- Watkins, Frank M., Cincinnati, Ohio. Centrifugal extractor. No. 1,325,064; Dec. 16; v. 269; p. 453.
- Watkins, Harry, Toledo, Ohio. Vehicle-canopy. No. 1,318,820; Oct. 14; v. 267; p. 282.
- Watkins, Harvey L., Philadelphia, Pa. Bottle-cap. No. 1,304,002; May 20; v. 262; p. 350.
- Watkins, Joseph W., assignor of one-half to G. Griffin and H. W. Bartley, Ridgely, Tenn. Cotton-picking sack. No. 1,300,065; Apr. 8; v. 261; p. 355.
- Watkins, Joseph W., assignor of one-fourth to H. W. Bartley, one-fourth to G. Griffin, one-twelfth to J. E. Hopkins, one-twelfth to J. R. Adams, and one-twelfth to L. T. Moore, Ridgely, Tenn. Cotton-picker sack. No. 1,317,532; Sept. 30; v. 266; p. 675.
- Watkins, Thomas C., Ingram, Pa. Air-cooled vehicle-tire. No. 1,324,944; Dec. 16; v. 269; p. 431.
- Watkins, William C., Weston, Ohio. Davenport-casket. No. 1,321,579; Nov. 11; v. 268; p. 294.
- Watkins, William E., assignor to The Metals Plating Company, New York, N. Y. Coating-machine. No. 1,295,819; Feb. 25; v. 259; p. 749.
- Watkins, William E., assignor to The Metals Plating Company, New York, N. Y. Coating-machine. No. 1,295,820; Feb. 25; v. 259; p. 750.
- Watkins, William E., assignor to The Metals Plating Company, New York, N. Y. Apparatus for plating metals. No. 1,302,106; Apr. 29; v. 261; p. 864.
- Watkins, William H., Hanwell, England. Aerial ropeway and the like. No. 1,313,357; Aug. 19; v. 265; p. 334.
- Watkins, William H., Hanwell, England. Tractor for aerial ropeways and the like. No. 1,313,358; Aug. 19; v. 265; p. 335.
- Watkins, William R. (See Stroud, William R., assignor.)
- Watlington, William H., Savannah, Ga. Attachment for ships. No. 1,325,385; Dec. 16; v. 269; p. 513.
- Watrous, Earl G., Chicago, Ill. Liquid-soap-dispensing device. No. 1,290,435; Jan. 7; v. 258; p. 101.
- Watrous, Earl G., Chicago, Ill. Drinking-fountain. No. 1,304,003; May 20; v. 262; p. 350.
- Watrous, Earl G., Chicago, Ill. Water-closet. No. 1,316,871; Sept. 23; v. 266; p. 514.
- Watrous, Earl G., Chicago, Ill. Shower-head. No. 1,319,738; Oct. 28; v. 267; p. 506.
- Watrous, Edward L., El Paso, Tex., assignor to E. L. Watrous Galvanizing Co. Galvanizing process. No. 1,324,220; Dec. 9; v. 269; p. 232.
- Watrous, William R., assignor to C. J. Bates & Son, Chester, Conn. Manicure implement. No. 1,312,653; Aug. 12; v. 265; p. 182.
- Watson Arms Company. (See Watson, Charles P., assignor.)
- Watson, Charles P., Fosse, Leicester, England. Educational appliance. No. 1,293,586; Feb. 4; v. 259; p. 142.
- Watson, Charles P., Philadelphia, Pa. Firearm-projectile. No. 1,322,662; Nov. 25; v. 268; p. 600.
- Watson, Charles P., assignor to Watson Arms Company, Inc., Philadelphia, Pa. Detonator for ordnance-projectiles. No. 1,311,104; July 22; v. 264; p. 666.
- Watson, Charles P., assignor to Watson Arms Company, Inc., Philadelphia, Pa. Detonating-fuse. No. 1,311,732; July 29; v. 264; p. 817.
- Watson, Charles P., assignor to Watson Arms Company, Inc., Philadelphia, Pa. Detonator for projectiles. No. 1,316,607; Sept. 23; v. 266; p. 465.
- Watson, Charles P., assignor to Watson Arms Company, Inc., Philadelphia, Pa. Detonating means for fuses. No. 1,316,608; Sept. 23; v. 266; p. 465.
- Watson, Clarence L., *et al.* (See Mossberg, Frank, assignor.)
- Watson, Daniel M., Portland, Oreg. Pump. No. 1,313,359; Aug. 19; v. 265; p. 335.
- Watson, Earle F. (See Newitt, Edward J. D., assignor.)
- Watson, Earle F., Dumont, N. J. Sight for firearms. No. 1,307,646; June 24; v. 263; p. 545.
- Watson, Earle F., Dumont, N. J. Sight for firearms. No. 1,307,647; June 24; v. 263; p. 545.
- Watson, Earle F., Dumont, N. J. Gun-sight. No. 1,319,313; Oct. 21; v. 267; p. 402.
- Watson, Edward. (See Eichberger and Watson.)
- Watson, Ernest A., assignor to The M-L Magneto Syndicate Limited, West Orchard, Coventry, England. Ignition apparatus for internal-combustion engines. No. 1,302,107; Apr. 29; v. 261; p. 864.
- Watson, Ernest A., assignor to The M-L Magneto Syndicate Limited, Coventry, England. Condenser for ignition-magnetos. No. 1,307,716; June 24; v. 263; p. 558.
- Watson, Ernest A., Coventry, assignor, by mesne assignments to The C. L. I. Manufacturing Company Limited, Birmingham, England. Dynamo-electric machine. No. 1,319,543; Oct. 21; v. 267; p. 446.
- Watson, Frank B. (See Cherry, Frank W., assignor.)
- Watson, Frank G., Webster, N. Y. Stile-extension clamp for ladders. No. 1,290,690; Jan. 7; v. 258; p. 164.
- Watson, George W., Boston, Mass., assignor of one-fourth to Allen & Daggett, Inc., Norwich, Conn. Child's vehicle. No. 1,317,407; Sept. 30; v. 266; p. 651.
- Watson, Harold L., Lancaster, Pa. Thermostatic regulator for incubators. No. 1,304,635; May 27; v. 262; p. 508.
- Watson, Harry E., assignor of one-half to F. B. Thompson, Richmond, Ind. Safety device for motion-picture machines. No. 1,311,363; July 29; v. 264; p. 748.
- Watson, Henry C., New York, N. Y. Chin-rest for violins. No. 1,311,670; July 29; v. 264; p. 805.
- Watson, James, Marinetta, Wis. Folding stove. No. 1,296,144; Mar. 4; v. 260; p. 75.
- Watson, James, Marinetta, Wis. Field-stove. No. 1,300,527; Apr. 15; v. 261; p. 481.
- Watson, James A., Marion, Ind. Traction-engine. No. 1,307,944; June 24; v. 263; p. 600.
- Watson, James H., Riverton, Wyo. Casing-jack. No. 1,301,769; Apr. 22; v. 261; p. 770.
- Watson, James M., Binghamton, N. Y. Mail-bag fastening. No. 1,297,277; Mar. 11; v. 260; p. 364.
- Watson, John C., Clifton Hill, Victoria, Australia. Combination latch-lock and bolt. No. 1,326,554; Dec. 30; v. 269; p. 786.
- Watson, John R., Cartago, and W. Hirschkind, Pittsburg, assignors to California Alkali Company, San Francisco, Calif. Making sodium sesquicarbonate and recovering sodium carbonates from natural waters. No. 1,319,128; Oct. 21; v. 267.
- Watson, John W. (See Roberts, Henry H., Jr., assignor.) (Reissue.)
- Watson, John W., Wayne, Pa. Recoil-check. No. 1,308,130; July 1; v. 264; p. 23.
- Watson, John W., Wayne, Pa. Recoil-check. No. 1,311,629; July 29; v. 264; p. 797.
- Watson, John W. and R. A. Wayne, Pa. Mileage-indicator for tires. No. 1,292,179; Jan. 21; v. 258; p. 575.
- Watson, Orrin W., Newman Lake, Wash. Game apparatus. No. 1,300,526; Apr. 15; v. 261; p. 481.
- Watson, Richard A. (See Watson, John W. and R. A.)
- Watson, Robert B., and J. C. Kitterman, Corydon, Ind. Fly-exit for screen doors and windows. No. 1,314,774; Sept. 2; v. 266; p. 56.
- Watson, Robert J., and A. E. Ozouf, assignors to The Allbright-Nell Company, Chicago, Ill. Hog-hoist. No. 1,317,745; Oct. 7; v. 267; p. 16.
- Watson, Sidney A., and R. I. Henderson, Toronto, Ontario, Canada. Automobile-bumper. No. 1,325,342; Dec. 16; v. 269; p. 506.
- Watson, Towle M., Brooklyn, N. Y. Stereopticon-slide. No. 1,315,887; Sept. 9; v. 266; p. 268.
- Watson Wagon Company. (See Keesler, Clyde C., assignor.)
- Watson Wagon Company. (See Keesler and Clock, assignors.)
- Watson, William, Glasgow, Scotland. Dental instrument. No. 1,325,426; Dec. 16; v. 269; p. 520.
- Watson, William A., Malden, Mass. Tracker connection for automatic musical instruments. No. 1,290,436; Jan. 7; v. 258; p. 102.
- Watson, William A., Malden, Mass. Note-sheet-control mechanism. No. 1,290,437; Jan. 7; v. 258; p. 102.
- Watson, William A., Malden, Mass. Ratchet-regulator for note-sheet control. No. 1,306,207; June 10; v. 263; p. 214.
- Watson, Winfield S., Cleveland, Ohio. Wheel. No. 1,298,425; Mar. 25; v. 260; p. 662.
- Watt, George E., assignor to Vickers Limited, Westminster, London, England. Cutting device for cables, chains, and the like. No. 1,313,435; Aug. 19; v. 265; p. 349.
- Watt, James A. (See De Hart and Watt.)
- Watt, James A. (See Watt, Nora J., assignor.)
- Watt, James A., New York, N. Y. Receptacle-closure. No. 1,307,169; June 17; v. 263; p. 425.
- Watt, Nora J., Kew Gardens, assignor to J. A. Watt, New York, N. Y. Bottle-stopper. No. 1,324,485; Dec. 9; v. 269; p. 284.
- Wattel, Achille L. F., Sèvres, France. Valve-gear for internal-combustion engines. No. 1,303,748; May 13; v. 262; p. 265.
- Watters, George M. (See Merzenich, William T., assignor.)
- Watters, William E., Melrose Park, Ill. Grab-bucket. No. 1,301,626; Apr. 22; v. 261; p. 741.
- Watters, William W., New Rochelle, N. Y. Interchangeable initial-plate. No. 1,323,339; Dec. 2; v. 269; p. 22.



## Alphabetical list of patentees—Continued.

- Watterson, Wilfred W. (See Hill, Frank R., assignor.)
- Wattleworth, Charles W., Akron, Ohio, assignor to The Goodyear Tire & Rubber Company. Apparatus for the continuous manufacture of vehicle-tires. No. 1,320,812; Nov. 4; v. 268; p. 85.
- Wattman, George E. (See Seidel and Wattman.)
- Watts, Albert B., Falfurrias, Tex. Lid and label holder. No. 1,322,880; Nov. 18; v. 268; p. 495.
- Watts, Alfred E., Duluth, Minn. Swimming-instruction machine. No. 1,316,524; Sept. 16; v. 266; p. 402.
- Watts, Ben, assignor of forty-nine one-hundredths to W. P. Godfrey, Jarbidge, Nev. Machine for exterminating rodentia or the like. No. 1,295,897; Feb. 25; v. 259; p. 652.
- Watts, Frank E., Detroit, Mich., assignor to Hupp Motor Car Corporation, Richmond, Va. Wind-shield construction. No. 1,311,582; July 29; v. 264; p. 789.
- Watts, Harry James, Turtle Creek, Pa. Compensating shaft-coupling. No. 1,317,247; Sept. 30; v. 266; p. 621.
- Watts, Orlando S., Camden, N. J. Stencil-cutting machine. No. 1,305,847; June 3; v. 263; p. 116.
- Watts, Richard E. (See Carter and Watts.)
- Watts, Thomas A., Springfield, Ohio, assignor to The Springfield Metall. Casket Company. Handle for burial-caskets. No. 1,321,382; Dec. 30; v. 269; p. 752.
- Waugaman, Thos. D. (See Walker, George B., assignor.)
- Waugh, Daniel S., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Motor. No. 1,314,288; Aug. 26; v. 265; p. 545.
- Waugh Draft Gear Company. (See Davidson, Arthur C., assignor.)
- Waugh, Edward H., assignor to Smith Cannery Machines Company, Seattle, Wash. Fish-cleaning device. No. 1,306,841; June 17; v. 263; p. 365.
- Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Pneumatic scraper for cleaning fish. No. 1,309,923; July 15; v. 264; p. 420.
- Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Scraper for fish-cleaning machines. No. 1,322,740; Nov. 25; v. 268; p. 614.
- Waugh, Samuel A., Revere, Mass., assignor to Revere Rubber Company. Manufacturing grinding-wheels. No. 1,318,630; Oct. 14; v. 267; p. 246.
- Waukesha Motor Co. (See Cole, Don, assignor.)
- Waukesha Motor Company. (See Fisher, James B., assignor.)
- Waul, William F., St. Louis, Mo. Steam system. No. 1,314,993; Sept. 2; v. 266; p. 96.
- Wawruak, Thomas J., Shawano, Wis. Adding and subtracting machine. No. 1,294,853; Feb. 18; v. 259; p. 505.
- Wax, Louis, Philadelphia, Pa. Coin-controlled dispensing-machine. No. 1,305,424; June 3; v. 263; p. 36.
- Way, G. W., et al. (See Kennedy, James W., assignor.)
- Way, G. William. (See Kennedy, James W., assignor.) (Reissue.)
- Way, John H., Philadelphia, Pa. Concealed or invisible butt-hinge. No. 1,333,221; Dec. 16; v. 269; p. 485.
- Wayman, Frank, Princeton, Mo. Wire-stretcher. No. 1,304,830; May 27; v. 262; p. 545.
- Wayditch, Aloysius, assignor of one-half to H. Miller, New York, N. Y. Drafting instrument. No. 1,290,812; Jan. 7; v. 258; p. 192.
- Wayman, James W. (See Donaldson, Orville M., assignor.)
- Wayne, Herbert N., Los Angeles, Cal., assignor to Armored Tire & Rubber Co. Armored inner tube. No. 1,297,278; Mar. 11; v. 260; p. 364.
- Wayne, Herbert N., Los Angeles, Cal., assignor to Armored Tire & Rubber Co. Inner tube for pneumatic tires. No. 1,297,279; Mar. 11; v. 260; p. 364.
- Wayne Manufacturing Company. (See Marth, Charles J., assignor.)
- Wayne Manufacturing Company. (See Sargent, William H., assignor.)
- Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
- Wayne Oil Tank & Pump Company. (See Eilers, Frank B., assignor.)
- Wayrich, Alexander, Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Exhibition device. No. 1,299,523; Apr. 8; v. 261; p. 234.
- Wayslowich, Pankracy, Chelsea, Mass. Liquid-discharging gun. No. 1,299,076; Apr. 1; v. 261; p. 105.
- Weaber, Marie R., and H. Clemens, assignors of one-half to Otto Weydemeyer, El Paso, Texas. Puncture-healing composition. No. 1,299,273; Apr. 1; v. 261; p. 150.
- Weadock, L. J. (See Rote, Bela W., assignor.)
- Weagant, Roy A., Roselle, N. J., assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Wireless signaling apparatus. No. 1,290,438; Jan. 7; v. 258; p. 103.
- Weagant, Roy A., Roselle Park, N. J., assignor to Marconi Wireless Telegraph Company of America. Wireless telegraphy. No. 1,306,208; June 10; v. 263; p. 214.
- Weagant, Roy A., Roselle Park, N. J., assignor to Marconi Wireless Telegraph Company of America. Receiver of electrical oscillations. No. 1,313,654; Aug. 19; v. 265; p. 390.
- Weagant, Roy A., Roselle, and H. Shoemaker, Jersey City, N. J., assignors to Marconi Wireless Telegraph Company of America, New York, N. Y. Method of and apparatus for radiosignaling. No. 1,295,245; Feb. 25; v. 259; p. 617.
- Weakley, Albert S., Gretna, Fla. Wind-shield. No. 1,315,691; Sept. 9; v. 266; p. 230.
- Wearn, James S., Linwood, Christchurch, New Zealand. Indoor game of skill. No. 1,314,293; Aug. 26; v. 265; p. 546.
- Wearne, Richard L., assignor to The Binghamton Washing Machine Co., Incorporated, Binghamton, N. Y. Washing-machine. No. 1,319,314; Oct. 21; v. 267; p. 402.
- Weatherhead, Charles H., Cleveland Heights, assignor to The Bishop-Babcock-Becker Company, Cleveland, Ohio. Valve. No. 1,294,002; Feb. 11; v. 259; p. 271.
- Weatherly, Edward M. (See Weatherly, William G. and E. M.)
- Weatherly, William G., Los Angeles, Calif., assignor of forty-five per cent. to W. P. Jones, Spokane, Wash. Adjustable radiator-fan. No. 1,309,005; July 8; v. 264; p. 212.
- Weatherly, William G. and E. M., Appleby, Tex. Antiskidding device. No. 1,316,008; Sept. 16; v. 266; p. 304.
- Weatherwax, Leon J., Saginaw, Mich. Heating-stove. No. 1,314,550; Sept. 2; v. 266; p. 14.
- Weaver, Albert E., assignor to Swartz Electric Co., Indianapolis, Ind. Reverse-current and low-voltage circuit-breaker. No. 1,293,587; Feb. 4; v. 259; p. 142.
- Weaver, Bent L., Harrisburg, Pa. Dusting-machine. No. 1,310,815; July 22; v. 264; p. 614.
- Weaver, Burt A. (See Tiefert and Weaver.)
- Weaver, Charlie B., Los Angeles, Calif. Knife-sharpener. No. 1,312,654; Aug. 12; v. 265; p. 182.
- Weaver, Charles R., assignor to Pneumatic Concrete Machinery Company, New York, N. Y. Concrete mixing and delivering apparatus. No. 1,309,671; July 15; v. 264; p. 373.
- Weaver, Clayton B., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Apparatus for making irregularly-shaped stampings. No. 1,307,170; June 17; v. 263; p. 425.
- Weaver, Clayton B., assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Making irregularly-shaped stampings. No. 1,308,769; July 8; v. 264; p. 168.
- Weaver Company. (See Weaver, Victor M., assignor.)
- Weaver, Elverton W., Cleveland Heights, Ohio. Internal-combustion engine. No. 1,311,196; July 29; v. 264; p. 717.
- Weaver, Frank R. (See Lane and Weaver.)
- Weaver, Fred T., Frackville, Pa. Cut-off. No. 1,294,003; Feb. 11; v. 259; p. 271.
- Weaver, Harold B., New York, N. Y., assignor to American Motorbus Corporation. Omnibus-control system. No. 1,292,547; Jan. 28; v. 258; p. 684.
- Weaver, Harold B., New York, N. Y., assignor to American Motorbus Corporation. Omnibus. No. 1,312,288; Aug. 5; v. 265; p. 80.
- Weaver, Harry B., Catsauqua, Pa., and J. Gayley, New York, N. Y. Blast-furnace practice. No. 1,292,937; Jan. 28; v. 258; p. 776.
- Weaver, Henry W., Bellevue, Fla. Water-cooler. No. 1,325,427; Dec. 16; v. 269; p. 521.
- Weaver, Ira A., Springfield, Ill. Torpedo. No. 1,292,668; Jan. 28; v. 258; p. 713.
- Weaver, Ira A., Springfield, assignor, by mesne assignments, to Montgomery Ward & Co., Incorporated, Chicago, Ill. Gang-plow. No. 1,301,627; Apr. 22; v. 261; p. 741.
- Weaver, Ira A., Springfield, assignor, by mesne assignments, to Montgomery Ward & Co., Incorporated, Chicago, Ill. Plow. No. 1,301,628; Apr. 22; v. 261; p. 741.
- Weaver, Ira A., assignor to Weaver Manufacturing Co., Springfield, Ill. Towing-pole. No. 1,290,813; Jan. 7; v. 258; p. 192.
- Weaver, Ira A., assignor to The Weaver Manufacturing Company, Springfield, Ill. Dispensing appliance. No. 1,290,814; Jan. 7; v. 258; p. 193.
- Weaver, Ira A., assignor to The Weaver Manufacturing Company, Springfield, Ill. Torpedo. No. 1,290,815; Jan. 7; v. 258; p. 193.
- Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Towing device. No. 1,308,537; July 1; v. 264; p. 96.
- Weaver, Lucius E., East Hampton, Conn., assignor to T. King, Boston, Mass. Sewing-machine shuttle. No. 1,320,516; Nov. 4; v. 268; p. 30.
- Weaver, Lucius E., East Hampton, Conn., assignor to T. King, Boston, Mass. Sewing-machine shuttle. No. 1,326,624; Dec. 30; v. 269; p. 799.
- Weaver, Lucius E., East Hampton, Conn., assignor to T. King, Boston, Mass. Sewing-machine shuttle. No. 1,326,625; Dec. 30; v. 269; p. 799.
- Weaver Manufacturing Co. (See Weaver, Ira A., assignor.)
- Weaver, Phillip H. (See Koltz, Nicholas, assignor.)



- Weaver, Robert B., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Thread-gage. No. 1,294,004; Feb. 11; v. 259; p. 271.
- Weaver, Robert R., assignor to The Ralston Steel Car Company, Columbus, Ohio. Hopper-bottom car. No. 1,292,180; Jan. 21; v. 258; p. 575.
- Weaver, Robert R., assignor to The Ralston Steel Car Company, Columbus, Ohio. Hopper-bottom car. No. 1,295,246; Feb. 25; v. 259; p. 617.
- Weaver, Samuel, assignor of one-half to R. A. Maeder, Troy, N. Y. Coal-oil burner. No. 1,322,982; Nov. 25; v. 268; p. 660.
- Weaver, Victor M., Harrisburg, Pa., assignor to Weaver Company. Apparatus for carrying out processes of winning metals. No. 1,296,575; Mar. 4; v. 260; p. 170.
- Weaver, Victor M., Harrisburg, Pa., assignor to Weaver Company. Securing metals from their compounds. No. 1,297,946; Mar. 18; v. 260; p. 536.
- Weaver, Victor M., Harrisburg, Pa., assignor to Weaver Company. Producing and separating certain substances. No. 1,300,205; Apr. 8; v. 261; p. 386.
- Weaver, Victor M., Harrisburg, Pa., assignor to Weaver Company, Milwaukee, Wis. Decomposing compounds. No. 1,323,936; Dec. 2; v. 269; p. 134.
- Webb, Adolphus M., Charlotte, N. C. Liquid and gas contact apparatus. No. 1,293,270; Feb. 4; v. 259; p. 69.
- Webb, Charles M., Los Angeles, Calif. Vehicle-seat. No. 1,297,947; Mar. 18; v. 260; p. 536.
- Webb, Edwin W. (See Barber and Webb.)
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Antifriction side bearing. No. 1,318,710; Oct. 14; v. 267; p. 261.
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Side bearing for cars. No. 1,319,441; Oct. 21; v. 267; p. 426.
- Webb, Ernest H. (See Shoup and Webb.)
- Webb, Ethel, et al. (See Day, Thomas J., assignor.)
- Webb, George R. (See Stunz, W. P., assignor.)
- Webb, George W., Johnson, assignor, by mesne assignments, of twelve and one-half one-hundredths to J. C. Conn, Boonton, N. J., and thirty-nine and one-half one-hundredths to J. A. Webb, Johnson county, Kans. Means for connecting the ends of belts. No. 1,306,507; June 10; v. 263; p. 272.
- Webb, George W. C., Dartford, assignor to Vickers Limited, Westminster, England. Incendiary composition. No. 1,308,463; July 1; v. 264; p. 83.
- Webb, Gurn S., and O. B. Anderson, Marquette, Mich. Animal-proof garbage-can. No. 1,296,576; Mar. 4; v. 260; p. 170.
- Webb, Horace D., Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Trimming-machine. No. 1,311,197; July 29; v. 264; p. 717.
- Webb, Howard R., Cincinnati, Ohio. Artificial limb. No. 1,312,599; Aug. 12; v. 265; p. 171.
- Webb, Irving F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Presser-foot for sewing-machines. No. 1,302,998; May 6; v. 262; p. 99.
- Webb, James A., et al. (See Webb, George W., assignor.)
- Webb, James W., Pittsburgh, Pa. Tool. No. 1,316,525; Sept. 16; v. 266; p. 402.
- Webb, Jean F., Sr., New York, N. Y. Auxiliary power attachment for aerial navigating-machines. No. 1,295,648; Feb. 25; v. 259; p. 710.
- Webb, Jean F., Sr., New York, N. Y. Aeroplane. No. 1,295,649; Feb. 25; v. 259; p. 711.
- Webb, Jean F., Sr., New York, N. Y. Aeroplane. No. 1,309,710; July 15; v. 264; p. 380.
- Webb, Jean F., Sr., New York, N. Y. Parachute attachment for flying-machines. No. 1,314,446; Aug. 26; v. 265; p. 576.
- Webb, John E., Island Falls, Me. Tie-wire remover. No. 1,311,475; July 29; v. 264; p. 769.
- Webb, John R., Parkersburg, W. Va. Cutting device. No. 1,292,181; Jan. 21; v. 258; p. 576.
- Webb, John W., assignor, by mesne assignments, to Webb Tester Incorporated, Chicago, Ill. Machine for testing paper and other materials. No. 1,317,468; Sept. 30; v. 266; p. 663.
- Webb Publishing Company. (See Lawton, Jay W., assignor.)
- Webb, Robin M., Bessemer, Ala. Collapsible core. No. 1,307,283; June 17; v. 263; p. 446.
- Webb Tester Incorporated. (See Webb, John W., assignor.)
- Webb, Thomas, Vancouver, British Columbia, Canada. Saw-straightening anvil. No. 1,317,902; Oct. 7; v. 267; p. 46.
- Webb, Thomas W. V., Macleod, Alberta, Canada. Bottle-stopper. No. 1,296,444; Mar. 4; v. 260; p. 141.
- Webb, Wilfred L. (See Crossley and Webb.)
- Webb, William J., East Akron, Ohio. Multicylinder pump. No. 1,316,258; Sept. 16; v. 266; p. 350.
- Webber, Henry E., Woodbury, Vt. Fruit-picker. No. 1,293,588; Feb. 4; v. 259; p. 142.
- Webber, Herbert R., Red Wing, Minn. Sewer. No. 1,299,884; Apr. 8; v. 261; p. 317.
- Webber, Pierre H. (See Bonilla, Ralph S., assignor.)
- Webber, William F. (See Couch and Webber.)
- Webel, Franz. (See Graul, Hanschke, and Webel.)
- Weber, Adolph E., Defiance, Mo. Feeding device. No. 1,314,624; Sept. 2; v. 266; p. 28.
- Weber, Albert. (See Hakanson and Weber.)
- Weber, Albert, Seattle, assignor of one-half to J. Hakanson, King county, Wash. Cutter-head. No. 1,317,113; Sept. 23; v. 266; p. 559.
- Weber, Anton. (See Leibing, William E., assignor.)
- Weber, Anton. (See Leibing, William O., assignor.)
- Weber, Anton, Oakland, Calif. Display-case. No. 1,308,312; July 1; v. 264; p. 56.
- Weber, Anton, W. E. Leibing, Oakland, Calif., and J. P. H. Jacobsen, Chicago, Ill., assignors to United States Auto Gear Shift Company, Oakland, Calif. Gear-shifting device. No. 1,300,902; Apr. 15; v. 261; p. 561.
- Weber, Bruno, Chicago, Ill., assignor to The Oscar C. Rixson Co. Straightening metallic castings. No. 1,294,732; Feb. 18; v. 259; p. 476.
- Weber, Carl, Chicago, Ill., assignor to Cement Gun Company, Incorporated, Allentown, Pa. Apparatus for plastering wall-surfaces. No. 1,298,426; Mar. 25; v. 260; p. 662.
- Weber, Carl, Chicago, Ill., assignor to Torcrete Shipbuilding Corporation, New York, N. Y. Concrete structure and constructing the same. No. 1,307,224; June 17; v. 263; p. 435.
- Weber, Carl, assignor to Cement-Gun Construction Company, Chicago, Ill. Holding-clip for concrete-reinforcement. No. 1,311,932; Aug. 5; v. 265; p. 15.
- Weber, Carl, Chicago, Ill., assignor to The Cement Gun Company, Incorporated, Allentown, Pa. Machine for applying plaster or the like to wall-surfaces. No. 1,323,663; Dec. 2; v. 269; p. 82.
- Weber, Carl M. (See Robinson, Joseph B., assignor.)
- Weber, Charles, Newark, N. J. Signal device. No. 1,325,885; Dec. 23; v. 269; p. 624.
- Weber, Clifford A. M., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Automatic switching arrangement for electric motors. No. 1,316,009; Sept. 16; v. 266; p. 304.
- Weber Electric Company. (See Weber, John, assignor.)
- Weber Engine Company. (See Clifford, Arthur, assignor.)
- Weber Engine Company. (See Gold, Samuel B., assignor.)
- Weber, Florian W., Chicago, Ill. Antiskid device for vehicle-wheels. No. 1,301,988; Apr. 29; v. 261; p. 843.
- Weber, Frederick C., New York, N. Y. Track system. No. 1,303,835; May 13; v. 262; p. 281.
- Weber, Frederick C., New York, N. Y. Pumping system. No. 1,309,229; July 8; v. 264; p. 253.
- Weber, George F., Newark, N. J. Gate-valve. No. 1,324,990; Dec. 16; v. 269; p. 440.
- Weber, Harry M., East Orange, N. J., assignor to Ellis Foster Company. Making sulfuric acid. No. 1,291,306; Jan. 14; v. 258; p. 332.
- Weber, Henry H., Jr., Shawano, Wis. Billiard-cue. No. 1,316,548; Sept. 16; v. 266; p. 407.
- Weber, John, assignor to Weber Electric Company, Schenectady, N. Y. Porcelain socket. No. 1,292,669; Jan. 28; v. 258; p. 713.
- Weber, John and M., St. Louis, Mo. Curtain or drapery holder. No. 1,291,307; Jan. 14; v. 258; p. 332.
- Weber, John A., Toledo, Ohio. Track-switch mechanism. No. 1,323,510; Dec. 2; v. 269; p. 54.
- Weber, Laurence C., Mechanicsburg, Pa. Lawn-mower. No. 1,296,577; Mar. 4; v. 260; p. 170.
- Weber, Lothar E., Brighton, Mass. Plastic composition. No. 1,302,739; May 6; v. 262; p. 49.
- Weber, Lothar E., Brighton, Mass. Plastic material. No. 1,302,740; May 6; v. 262; p. 49.
- Weber, Mary. (See Weber, John and M.)
- Weber, Robert E., Milwaukee, Wis. Resonance-chamber for talking-machines. No. 1,319,739; Oct. 28; v. 267; p. 506.
- Webley, Upton A., Elkins, W. Va. Press. No. 1,294,211; Feb. 11; v. 259; p. 320.
- Weborg, Charles J., Pender, Nebr. Sawing-machine. No. 1,298,270; Mar. 25; v. 260; p. 630.
- Webster, Arthur S. (See Hancock, Harry H., assignor.)
- Webster, Benjamin, assignor to Perfection Gauge Company, Detroit, Mich. Gage. No. 1,298,606; Mar. 25; v. 260; p. 701.
- Webster, Bradford, assignor, by mesne assignments, to Paragon Binder Corporation, Newark, N. J. Perforator. No. 1,312,067; Aug. 5; v. 265; p. 40.
- Webster, Carl S., Haverhill, Mass. Film-magazine for motion-picture machines. No. 1,297,049; Mar. 11; v. 260; p. 314.
- Webster, Edgar E., Chicago, Ill. Focusing device for cameras. No. 1,302,255; Apr. 29; v. 261; p. 892.
- Webster, Edgar P., Bridgeport, Conn. Roller-bearing. No. 1,326,239; Dec. 30; v. 269; p. 726.
- Webster Electric Company. (See Brown, Walter, assignor.)
- Webster Electric Company. (See Geist, Harry F., assignor.)
- Webster Electric Company. (See Kleckner and Brown, assignors.)
- Webster Electric Company. (See Stark, John R., assignor.)
- Webster, Francis H., St. Louis, Mo. Nut-lock. No. 1,310,723; July 22; v. 264; p. 596.



## Alphabetical list of patentees—Continued.

- Webster, Frank A., Lilbourn, Mo. Device for housing hogs. No. 1,306,365; June 10; v. 263; p. 246.
- Webster, Frederick H., Oakland, assignor of one-half to C. L. Brown, San Francisco, Cal. Mixing-machine. No. 1,296,445; Mar. 4; v. 260; p. 141.
- Webster, Frederick M. (See Gillette, George R., assignor.)
- Webster, Henry, Clinton township, Vinton county, assignor to Webster & Kincaid, Cincinnati, Ohio. Kiln. No. 1,295,650; Feb. 25; v. 259; p. 711.
- Webster, Henry, Newport, Ky., and W. B. Kincaid, Cincinnati, Ohio. Continuous brick kiln and drier. No. 1,304,831; May 27; v. 262; p. 545.
- Webster, Henry E., Warren, Ohio. Ice-card holder. No. 1,323,131; Nov. 25; v. 268; p. 688.
- Webster, Hosea, Montclair, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Support for furnace-walls. No. 1,311,476; July 29; v. 264; p. 769.
- Webster, John A., Rutherford, N. J. Vending-machine. No. 1,313,032; Aug. 12; v. 265; p. 256.
- Webster, John E., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pad for sheet-separating machines. No. 1,308,131; July 1; v. 264; p. 23.
- Webster & Kincaid. (See Webster, Henry, assignor.)
- Webster, Robert L., Antigo, Wis. Hay-puller. No. 1,291,308; Jan. 14; v. 258; p. 332.
- Webster, Roger G. (See Jarboe and Webster.)
- Webster, Shirley G., Glen Raven, N. C. Picker-check. No. 1,325,065; Dec. 16; v. 269; p. 453.
- Webster, T. K., trustee. (See Yeomans, Lucien I., assignor.)
- Webster, Townner K., Jr., Evanston, assignor to American Steam Conveyor Corporation, Chicago, Ill. Tank for ash-conveyer systems. No. 1,313,436; Aug. 19; v. 265; p. 349.
- Webster, Walter G., Highland Park, assignor of one-third to H. Ireland, Detroit, Mich. Malleableizing cast metal. No. 1,298,607; Mar. 25; v. 260; p. 701.
- Wecht, Peter, Bellaire, Ohio. Glass-working apparatus. No. 1,300,066; Apr. 8; v. 261; p. 355.
- Weck, George C. (See Ellis, Milan A., assignor.)
- Weddell, P. Mark, San Jose, Calif. Propeller. No. 1,326,701; Dec. 30; v. 269; p. 813.
- Weder, Hermann, Sr., and C. H. Wolff, Philadelphia, Pa. Scalpel or handle for surgical instruments. No. 1,307,717; June 24; v. 263; p. 558.
- Wedge, Utley, Ardmore, Pa. Cultivator. No. 1,317,533; Sept. 30; v. 266; p. 675.
- Wedin, Gustaf A., Brooklyn, N. Y. Holder for towels and the like. No. 1,314,625; Sept. 2; v. 266; p. 29.
- Wedlock, Frank V., Chicago, Ill. Sponge-trimming machine. No. 1,292,182; Jan. 21; v. 258; p. 576.
- Wedot Company, The. (See Fenn, William B., assignor.)
- Wee, Oscar G., Tomahawk, Wis. Lifting-jack. No. 1,300,067; Apr. 8; v. 261; p. 355.
- Weed, Chester A., Milltown, Me. Thermo-container for hand-oilers. No. 1,305,677; June 3; v. 263; p. 85.
- Weed, Harry D., U. S. Army. Bomb-carrying gear. No. 1,311,630; July 29; v. 264; p. 798.
- Weed, Howard L., Detroit, Mich. Rotary explosive-engine. No. 1,298,838; Apr. 1; v. 261; p. 51.
- Weed, Howard L., Detroit, Mich. Rotary engine. No. 1,298,839; Apr. 1; v. 261; p. 52.
- Weed, Hugh H. C. (See Bicknell and Weed.)
- Weed, James M., Schenectady, N. Y., assignor to General Electric Company. Welding-electrode. No. 1,300,068; Apr. 8; v. 261; p. 356.
- Weed, James M., Schenectady, N. Y., assignor to General Electric Company. Welding-electrode. No. 1,304,227; May 20; v. 262; p. 390.
- Weed, Seth G., Cooksville, Ill. Antiskidding device for wheel-tires. No. 1,291,309; Jan. 14; v. 258; p. 333.
- Weed, William L., assignor of one-fifth to H. F. Kaelin, Santa Ana, Calif. Wave-motor. No. 1,315,692; Sept. 9; v. 266; p. 231.
- Weeks, Edmund G. (See Michie and Weeks.)
- Weeks, Frank A., Plainfield, N. J. Inkstand. No. 1,300,528; Apr. 15; v. 261; p. 482.
- Weeks, Frank A., Plainfield, N. J. Inkstand. No. 1,325,821; Dec. 23; v. 269; p. 611.
- Weeks, Jackson S., et al., trustees. (See Weeks, Joseph H., assignor.)
- Weeks, James L. (See Porter, Edward, assignor.)
- Weeks, Joseph H., Rutledge, assignor to J. S. Weeks, Delaware county, and R. M. Weeks, Philadelphia, Pa., trustees. Composition for electrolytes for electrical etching. No. 1,291,310; Jan. 14; v. 258; p. 333.
- Weeks, Joseph H., Rutledge, assignor to J. S. Weeks, Delaware county, and R. M. Weeks, Philadelphia, Pa., trustees. Composition for electrolytes for electrical etching. No. 1,314,839; Sept. 2; v. 266; p. 68.
- Weeks, Joseph H., Rutledge, assignor to J. S. Weeks, Delaware county, and R. M. Weeks, Philadelphia, Pa., trustees. Composition for electrolytes for electrical etching. No. 1,314,840; Sept. 2; v. 266; p. 68.
- Weeks, Joseph H., Rutledge, assignor to J. S. Weeks, Delaware county, and R. M. Weeks, Philadelphia, Pa., trustees. Composition for electrolytes for electrical etching. No. 1,314,841; Sept. 2; v. 266; p. 68.
- Weeks, Joseph H., Rutledge, assignor to J. S. Weeks, Delaware county, and R. M. Weeks, Philadelphia, Pa., trustees. Composition for electrolytes for electrical etching. No. 1,314,842; Sept. 2; v. 266; p. 68.
- Weeks, Raymond M., et al., trustees. (See Weeks, Joseph H., assignor.)
- Weeks, Shirley S., Oakland, and C. D. Stewart, Berkeley, assignors to Associated Engineering and Supply Company, San Francisco, Calif. Furnace draft-regulator. No. 1,314,174; Aug. 26; v. 265; p. 522.
- Weeper, William J., Fonda, N. Y. Attachment for fast-warp knitting-machines. No. 1,297,424; Mar. 18; v. 260; p. 423.
- Wegener, Albert B., Chicago, Ill. Hasp attachment. No. 1,319,498; Oct. 21; v. 267; p. 438.
- Wegener, Otto F., assignor to M. Nible, Seattle, Wash. Street-crossing escalator-bridge. No. 1,292,938; Jan. 28; v. 258; p. 777.
- Wegerer, John F., Marion, Kans. Blowpipe attachment for grain-separators. No. 1,308,825; July 8; v. 264; p. 178.
- Wegner, Ferdinand M., Brooklyn, N. Y. Tire for automobile-wheels. No. 1,302,741; May 6; v. 262; p. 49.
- Wegner, Ferdinand M., Brooklyn, N. Y. Bridge or bar for unhairing fur-skins. No. 1,304,637; May 27; v. 262; p. 509.
- Wegner, Frederick A., Buffalo, N. Y. Dust-collector. No. 1,316,988; Sept. 23; v. 266; p. 535.
- Wegner, Gustav, Baudette, Minn. Door-lock. No. 1,297,616; Mar. 18; v. 260; p. 464.
- Wegner, Gustave A., Rochester, N. Y. Refrigerating apparatus. No. 1,305,425; June 3; v. 263; p. 37.
- Wegner, Gustave A., Rochester, assignor of one-half to Wegner Machine Company, Buffalo, N. Y. Refrigerating apparatus. No. 1,325,128; Dec. 16; v. 269; p. 466.
- Wegner Machine Company. (See Wegner, Gustave A., assignor.)
- Wegner, William F., assignor to The Maremont Manufacturing Company, Chicago, Ill. Spring-machine. No. 1,316,211; Sept. 16; v. 266; p. 342.
- Wegwart, Herman. (See Greenlee and Wegwart.)
- Wegwart, Herman, Burlington, Wis. Container. No. 1,320,591; Nov. 4; v. 268; p. 44.
- Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Clock for controlling mechanical devices. No. 1,299,077; Apr. 1; v. 261; p. 106.
- Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Chime-clock. No. 1,309,309; Apr. 15; v. 261; p. 432.
- Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Chime-clock. No. 1,304,924; May 27; v. 262; p. 562.
- Wehling, Andrew H., Wichita, Kans. Toy. No. 1,299,274; Apr. 1; v. 261; p. 150.
- Wehn, Charles E., San Francisco, Calif. Pencil. No. 1,302,999; May 6; v. 262; p. 99.
- Wehner, Georg M., Dresden, Germany. Band for shaping the string of tobacco in endwise-moving-filler cigarette-machines. No. 1,324,864; Dec. 16; v. 269; p. 416.
- Wehner, Herman E., and F. J. Heller, Chicago, Ill. Fishing device. No. 1,317,843; Oct. 7; v. 267; p. 33.
- Wehner, Lewis, Milwaukee, assignor to Fawling and Harnischfeger Company, West Milwaukee, Wis. Trench-digging machine. No. 1,301,344; Apr. 22; v. 261; p. 689.
- Weibull, Ernst H. W., Gottenborg, Sweden. Ball-bearing. No. 1,301,527; Apr. 22; v. 261; p. 723.
- Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Plumber-block for antifriction-bearings. No. 1,304,832; May 27; v. 262; p. 545.
- Weichel, John H. (See Koenig and Weichel.)
- Weidely, George A., Indianapolis, Ind., assignor to The Cleveland Tractor Company, Euclid, Ohio. Steering mechanism for motor-vehicles. No. 1,319,367; Oct. 21; v. 267; p. 412.
- Weidenbach, Andrew N., Mitchell, S. D. Box-holding clamp. No. 1,299,640; Apr. 8; v. 261; p. 261.
- Weidenbach, Herman A., Buffalo, N. Y. Rotary steam-engine. No. 1,301,989; Apr. 29; v. 261; p. 841.
- Weidenthal, Harold G., assignor to The James H. Herron Company, Cleveland, Ohio. Electric furnace. No. 1,304,425; May 20; v. 262; p. 430.
- Weidknecht, Amedée, Paris, France. Internal-combustion engine. No. 1,310,267; July 15; v. 264; p. 481.
- Weidlich, Louis, Stratford, Conn. Salt-shaker. No. 1,307,838; June 24; v. 263; p. 580.
- Weigel, Arnold A. (See Welch and Weigel.)
- Weigel, Arnold A., assignor, by mesne assignments, to S. L. Woods, Chicago, Ill. Antifriction-bearing. No. 1,320,722; Nov. 4; v. 268; p. 67.
- Weigel, Frank P., Plandreau, S. D. Horse's nose protector or shield. No. 1,311,933; Aug. 5; v. 265; p. 15.
- Weigle, Edmund, Bergenfield, N. J. Guide-rail oiler. No. 1,294,733; Feb. 18; v. 259; p. 476.
- Weiger, Joseph A., Union Hill, assignor to Independent Lamp & Wire Company, Inc., Weehawken, N. J. Metal alloy. No. 1,321,170; Nov. 11; v. 268; p. 216.
- Weikly, James N., Jersey City, N. J. Fluid-pressure system. No. 1,300,529; Apr. 15; v. 261; p. 482.
- Well, Charles L., Port Huron, Mich. Separating soluble bodies from mixed solutions. No. 1,304,004; May 20; v. 262; p. 350.
- Well, Edgar H., assignor to The Vitreous Enameling Company, Cleveland, Ohio. Tray. No. 1,319,195; Oct. 21; v. 267; p. 380.



- Weil, Maximilian, New York, N. Y. Communication-receiving apparatus. No. 1,302,887; May 6; v. 262; p. 78.
- Weil, Maximilian, New York, N. Y. Receiver. No. 1,321,171; Nov. 11; v. 268; p. 217.
- Weil, Maximilian, assignor, by mesne assignments, to Automatic Railway Control Company, Inc., New York, N. Y. Automatic train-controlling means. No. 1,304,833; May 27; v. 262; p. 545.
- Weiland, Edward W., Fresno, Calif. Door latch and bumper. No. 1,300,530; Apr. 15; v. 261; p. 482.
- Weiland, Edward W., Fresno, Calif. Spring-latch and bolt. No. 1,315,266; Sept. 9; v. 266; p. 155.
- Weilep, William E., Brighton, Colo. Spirit-level attachment. No. 1,305,636; June 3; v. 263; p. 78.
- Weilheimer, Louis H. (See Flower and Weilheimer.)
- Weimar, William, Appleton, Wis. Treatment of fibrous material. No. 1,313,437; Aug. 19; v. 265; p. 350.
- Weimer, Hugo W., Milwaukee, Wis., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Tube-mill. No. 1,291,311; Jan. 14; v. 258; p. 333.
- Weimer, James A. (See Claycomb and Weimer.)
- Weinbacher, Alois, Oshkosh, Wis. Carpenter's knife. No. 1,323,937; Dec. 2; v. 269; p. 134.
- Weinberg, Frederick, Detroit, Mich. Fuel-feed apparatus. No. 1,292,183; Jan. 21; v. 258; p. 576.
- Weinberg, Frederick, Detroit, Mich. Vacuum feed apparatus. No. 1,302,610; May 6; v. 262; p. 24.
- Weinberg, Frederick, Detroit, Mich. Vacuum feed apparatus. No. 1,325,180; Dec. 16; v. 269; p. 475.
- Weinberg, Isaac H., New York, N. Y. Umbrella and parasol. No. 1,314,230; Aug. 26; v. 265; p. 534.
- Weinberger, Marcus, assignor of one-third to O. Bonaker, San Francisco, Calif. Bath-tub attachment. No. 1,297,980; Mar. 18; v. 260; p. 543.
- Weinberger, Vaughan J., Kenmare, N. D. Manifold-heater. No. 1,324,707; Dec. 9; v. 269; p. 325.
- Weiner, David, Pittsburgh, Pa. Folding stool. No. 1,300,678; Apr. 15; v. 261; p. 512.
- Weinhardt, Robert A., assignor to Continental Motors Corporation, Detroit, Mich. Crank-shaft. No. 1,303,000; May 6; v. 262; p. 100.
- Weinheim, Emil, New York, N. Y. Apparatus for the manufacture of substitute hide-leather. No. 1,305,848; June 3; v. 263; p. 116.
- Weinheim, Emil, New York, N. Y. Manufacture of substitute hide-leather. No. 1,306,649; June 10; v. 263; p. 298.
- Weinheim, Emil, New York, N. Y. Apparatus for impregnating fragile fabric. No. 1,306,650; June 10; v. 263; p. 298.
- Weinheim, Emil, New York, N. Y. Process and apparatus for producing smooth-surfaced coating on textile fabrics. No. 1,313,655; Aug. 19; v. 265; p. 390.
- Weinholt, Paul, assignor of one-half to O. G. Kostedt, St. Louis, Mo. Toy pistol. No. 1,311,934; Aug. 5; v. 265; p. 16.
- Weinrich, Moritz, Yonkers, N. Y. Manufacturing carbonaceous filtering mediums. No. 1,308,826; July 8; v. 264; p. 178.
- Weinstein, Leon, St. Louis, Mo. Lace-tipping tool. No. 1,308,516; July 1; v. 264; p. 92.
- Weintraub, Ezechiel, New York, N. Y., assignor to General Electric Company. Catalyzing material. No. 1,299,641; Apr. 8; v. 261; p. 261.
- Weintraub, Ezechiel, New York, N. Y., assignor to General Electric Company. Producing pure elements. No. 1,306,568; June 10; v. 263; p. 282.
- Weir, David H., Omaha, Nebr. Chain-lock. No. 1,291,312; Jan. 14; v. 258; p. 333.
- Weir, David H., Omaha, Nebr. Adjustable vehicle-body. No. 1,311,429; July 29; v. 264; p. 761.
- Weir, James M., Gulfport, Miss. Fly-trap. No. 1,293,271; Feb. 4; v. 259; p. 69.
- Weir, William, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Feed-water-treatment arrangement in steamships. No. 1,302,256; Apr. 29; v. 261; p. 892.
- Weir, William, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Feed-water-heating apparatus. No. 1,302,257; Apr. 29; v. 261; p. 893.
- Weiss, Alvin W. D., Quincy, Ill. Egg-shipping package. No. 1,293,589; Feb. 4; v. 259; p. 143.
- Weiss, Alvin W. D., Quincy, Ill., and J. Starman, Cedar Rapids, Iowa. Cell-case machine. No. 1,290,816; Jan. 7; v. 258; p. 193.
- Weiss, Alvin W. D., Quincy, Ill., and J. Starman, Cedar Rapids, Iowa. Cell-case machine. No. 1,296,887; Mar. 11; v. 260; p. 278.
- Weiss, Andrew J., Dayton, Ohio. Carpet-cleaning machine. No. 1,294,005; Feb. 11; v. 259; p. 272.
- Weiss, Andrew J., Dayton, Ohio. Beating-machine for paper-pulp. No. 1,301,629; Apr. 22; v. 261; p. 742.
- Weiss, Charles. (See Yablon and Weiss.)
- Weiss Fibre Container Corporation, The. (See Lake, Ellsworth L., assignor.)
- Weiss Fibre Container Corporation, The. (See Weiss, William C., assignor.)
- Weiss, John P., Nyack, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Corporation, Dover, Del. Sewing-machine. No. 1,295,942; Mar. 4; v. 260; p. 27.
- Weiss, John P., Nyack, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Corporation, Dover, Del. Sewing-machine driving-shaft. No. 1,300,531; Apr. 15; v. 261; p. 482.
- Weiss, John P., Nyack, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Corporation, Dover, Del. Overstitch sewing-machine. No. 1,300,532; Apr. 15; v. 261; p. 482.
- Weiss, John P., Nyack, N. Y., assignor to Metropolitan Sewing Machine Corporation. Needle for chain-stitch sewing-machines. No. 1,323,340; Dec. 2; v. 269; p. 22.
- Weiss, Julius, St. Paul, Minn. Safety-pin. No. 1,313,846; Aug. 19; v. 265; p. 426.
- Weiss, William C., assignor to The Weiss Fibre Container Corporation, Monroe, Mich. Fiber container. No. 1,308,883; July 8; v. 264; p. 189.
- Weisse, Frank S., Baltimore, Md. Printing-machine. No. 1,305,849; June 3; v. 263; p. 117.
- Weise, Reinhold, New York, N. Y. Thrill-pole. No. 1,296,145; Mar. 4; v. 260; p. 76.
- Weisenborn, George P. A., Oklahoma, Okla. Apparatus for holding plastic material on plows. No. 1,303,432; May 13; v. 262; p. 207.
- Weiser, Simon, Houston, Tex. Tire-bandage. No. 1,313,143; Aug. 12; v. 265; p. 278.
- Weisgerber, Frank R., Salina, Kans. Belt attachment for motor-vehicles. No. 1,297,948; Mar. 18; v. 260; p. 536.
- Weishaar, Fred F., and B. R. Draudt, Cleveland, Ohio; said Draudt assignor to said Weishaar. Signaling device. No. 1,323,208; Nov. 25; v. 268; p. 703.
- Weismantel, Joseph and W. Newark, N. J. Bow or tassel making and forming attachment or device. No. 1,307,069; June 17; v. 263; p. 408.
- Weismantel, William. (See Weismantel, Joseph and W.)
- Weiss, Alexander, assignor of one-half to E. H. Beighlee, Cleveland, Ohio. Means for lubricating films. No. 1,308,385; July 1; v. 264; p. 69.
- Weiss, Alfred H., Wilmette, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Cord-weight. No. 1,309,670; July 15; v. 264; p. 373.
- Weiss, Arthur J., West Orange, N. J., assignor, by mesne assignments, to J. B. McCoy & Son, New York, N. Y. Concealed fastening for wall-fixtures. No. 1,304,834; May 27; v. 262; p. 546.
- Weiss, Benjamin, New York, N. Y. Folding couch-bed. No. 1,300,069; Apr. 8; v. 261; p. 356.
- Weiss, Carl W., Brooklyn, N. Y. Crank-casing for internal-combustion engines. No. 1,291,318; Jan. 14; v. 258; p. 333.
- Weiss, Carl W., Brooklyn, N. Y. Fuel distributing and controlling mechanism for internal-combustion engines. No. 1,292,981; Jan. 28; v. 258; p. 787.
- Weiss, Charles, Chicago, Ill. Frame and window for automobile-tops. No. 1,302,742; May 6; v. 262; p. 49.
- Weiss, Cornelius, Brooklyn, N. Y. Sewing-machine attachment. No. 1,301,528; Apr. 22; v. 261; p. 723.
- Weiss, George W., New York, N. Y. Winding and measuring machine. No. 1,306,090; June 10; v. 263; p. 192.
- Weiss, George W., Brooklyn, N. Y. Exposure-indicator for photographic cameras. No. 1,321,868; Nov. 18; v. 268; p. 400.
- Weiss, Henry, New York, N. Y. Condiment-dispenser. No. 1,299,078; Apr. 1; v. 261; p. 106.
- Weiss, Jay G., Montclair, and C. Knott, Newark, assignors to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Roll-grinding machine. No. 1,312,881; Aug. 12; v. 265; p. 226.
- Weiss, John. (See Bussinger and Weiss.)
- Weiss, John M., New York, N. Y., assignor to The Barrett Company. Purifying carbazol. No. 1,301,796; Apr. 22; v. 261; p. 777.
- Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Production of quinoe. No. 1,318,631; Oct. 14; v. 267; p. 247.
- Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Production of maleic acid. No. 1,318,632; Oct. 14; v. 267; p. 247.
- Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Catalytic oxidation of benzene. No. 1,318,633; Oct. 14; v. 267; p. 247.
- Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Production of benzaldehyde. No. 1,321,959; Nov. 18; v. 268; p. 416.
- Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Production of diphenyl. No. 1,322,983; Nov. 25; v. 268; p. 660.
- Weiss, Louis T., Brooklyn, N. Y. Rewinding-machine for fishing-lines. No. 1,310,816; July 22; v. 264; p. 614.
- Weiss, Louis T., assignor to Reliance-Grant Elevator Equipment Corporation, New York, N. Y. Door-hanger. No. 1,325,428; Dec. 16; v. 269; p. 521.
- Weiss, Simon, Allenton, Wis. Milk-can closure. No. 1,301,205; Apr. 22; v. 261; p. 661.
- Weiss, William, Philadelphia, Pa. Garment-pocket. No. 1,316,526; Sept. 16; v. 266; p. 402.



## Alphabetical list of patentees—Continued.

- Welsse, John O., La Crosse, Wis. Inclosure for porches. No. 1,296,243; Mar. 4; v. 260; p. 97.
- Weissel, Robert G., Oakland, Cal. Locking device for levers. No. 1,292,548; Jan. 28; v. 258; p. 684.
- Weissenburger, Charles O., Youngstown, Ohio. Straightening-press and operating same. No. 1,300,679; Apr. 15; v. 261; p. 512.
- Weisz, Sándor, New York, N. Y. Soft fold-collar. No. 1,319,499; Oct. 21; v. 267; p. 438.
- Weith, Archie J. (See Redman, Weith, and Brock.)
- Weitzell, Harry M., Legrand, Iowa. Harrow and attachment therefor. No. 1,313,144; Aug. 12; v. 265; p. 279.
- Weizmann, Charles, London, England. Production of acetone and alcohol by bacteriological processes. No. 1,315,585; Sept. 9; v. 266; p. 213.
- Welch, Albert G., trustee. (See Alfreds, Torris H., assignor.)
- Welch, Albert G., trustee. (See Perry, Hubert M., assignor.)
- Welch, Albert G., and A. A. Weigel, assignors, by mesne assignments, to S. L. Woods, Chicago, Ill. Antifriction-bearing. No. 1,316,124; Sept. 16; v. 266; p. 325.
- Welch, Edith C. (See Welch, John M., assignor.)
- Welch, Frank P., Poughkeepsie, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Collar and making the same. No. 1,302,258; Apr. 29; v. 261; p. 893.
- Welch Grape Juice Company, The. (See Welch, Paul R., assignor.) (Reissue.)
- Welch, Henry, Cincinnati, assignor to Norwood Novelty Company, Norwood, Ohio. Xylophone. No. 1,323,132; Nov. 25; v. 268; p. 688.
- Welch, Herman A., Coldwater, Kans. Wrench. No. 1,310,641; July 22; v. 264; p. 582.
- Welch, Herman L., El Centro, Calif. Copy-holder. No. 1,307,945; June 24; v. 263; p. 600.
- Welch, James A. (See Monroe, George B., assignor.)
- Welch, Jesse C., assignor to The J. C. Welch Mfg. Co., Tacoma, Wash. Serving-wagon. No. 1,323,511; Dec. 2; v. 269; p. 55.
- Welch, John B., New Haven, Conn. Receptacle for inflammable materials. No. 1,325,769; Dec. 23; v. 269; p. 602.
- Welch, John M., assignor to E. C. Welch, Saratoga Springs, N. Y. Pocket safety-razor. No. 1,297,762; Mar. 18; v. 260; p. 497.
- Welch, Oscar C., Butler, Mo. Grain-pitcher. No. 1,294,212; Feb. 11; v. 259; p. 320.
- Welch, Paul R., assignor to The Welch Grape Juice Company, Westfield, N. Y. Manufacturing food products from fruits and vegetables and the products. No. 1,295,943; Mar. 4; v. 260; p. 28.
- Welch, Paul R., assignor to The Welch Grape Juice Company, Westfield, N. Y. Treating grapes. (Reissue.) No. 14,636; Apr. 15; v. 261; p. 603.
- Welch, Thomas C., Chicago, Ill. Automatic stripping and tipping device. No. 1,315,888; Sept. 9; v. 266; p. 268.
- Welch, William H., Salem, Ohio. Power drop-hammer. No. 1,304,426; May 20; v. 262; p. 430.
- Weldie, William R., North East, Md. Pliers. No. 1,312,148; Aug. 5; v. 265; p. 56.
- Weldon, Ernest. (See Daniels, Edward T., assignor.)
- Welker, Alexander H., assignor to Pollock Manufacturing Company, Limited, Kitchener, Ontario, Canada. Sound-reproducer. No. 1,323,429; Dec. 2; v. 269; p. 39.
- Well, John, Spokane, Wash. Saw-clamp. No. 1,290,817; Jan. 7; v. 258; p. 194.
- Wellendorf, Carl, Idagrove, Iowa. End-gate. No. 1,305,426; June 3; v. 263; p. 37.
- Weller, George, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,290,439; Jan. 7; v. 258; p. 103.
- Weller, John L., and F. E. Winchester, Richmond, Ind. Gear-shifting lock. No. 1,296,026; Mar. 4; v. 260; p. 48.
- Weller Manufacturing Company. (See Robbins, Hugh P., assignor.)
- Welles, Henry S., New York, N. Y. Artificial bait. No. 1,297,617; Mar. 18; v. 260; p. 464.
- Welles, Henry S., New York, N. Y. Fishing-rod. No. 1,318,421; Oct. 14; v. 267; p. 206.
- Welles, Henry S., assignor to The H. & D. Folsom Arms Co., New York, N. Y. Method of reinforcing. No. 1,317,146; Sept. 23; v. 266; p. 565.
- Welles, William A. (See Parkinson, Welles, and Tierney.)
- Wellington, Arthur W., assignor to Waterbury Mfg. Co., Waterbury, Conn. Ball-and-socket joint for electric fixtures. No. 1,297,763; Mar. 18; v. 260; p. 497.
- Wellington, Arthur W., assignor to The Chase Companies Inc., Waterbury, Conn. Folding-handle drinking-cup. No. 1,316,402; Sept. 16; v. 266; p. 377.
- Wellman, Charles A., Chicago, Ill. Self-cleaning spark-plug. No. 1,310,817; July 22; v. 264; p. 615.
- Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Fuel-feeding system. No. 1,292,549; Jan. 28; v. 258; p. 684.
- Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Pipe still for high pressure. No. 1,323,383; Dec. 2; v. 269; p. 30.
- Wellman Seaver and Head Limited. (See Smith, Frederick G., assignor.)
- Wellman-Seaver-Morgan Company, The. (See Case, Arthur F., assignor.)
- Wells, Albert A., and H. B. Fife, Detroit, Mich. Fuse-box. No. 1,298,608; Mar. 25; v. 260; p. 702.
- Wells, Albert B., Southbridge, Mass. Lens-comparator. No. 1,307,528; June 24; v. 263; p. 524.
- Wells, Alfred A. (See Ellis and Wells.)
- Wells, Alfred A., Montclair, N. J., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Polymerized manganese-dioxide depolarizer. No. 1,293,272; Feb. 4; v. 259; p. 69.
- Wells, Archibald H., and J. D. Kellogg, Seattle, Wash. Lathe-drive dog. No. 1,323,133; Nov. 25; v. 268; p. 688.
- Wells, Archibald H., and J. D. Kellogg, Seattle, Wash. Lathe-drive dog. No. 1,323,134; Nov. 25; v. 268; p. 688.
- Wells, Arthur E. (See Riser, Henry, assignor.)
- Wells, Benjamin F., Loveland, Colo. Climbing device. No. 1,307,468; June 24; v. 263; p. 514.
- Wells, Carolyn C. R., Seattle, Wash. Knitting-holder. No. 1,290,440; Jan. 7; v. 258; p. 103.
- Wells, Clark H., Cedar Rapids, Iowa, assignor of one-half to H. H. Rumble, Norfolk, Va. Flush-valve. No. 1,309,230; July 8; v. 264; p. 254.
- Wells, Delbert, Paoli, Ind. Automatic spark-timing mechanism. No. 1,309,924; July 15; v. 264; p. 420.
- Wells, Elbert W., Kalispell, Mont. Grinding-machine for sickle-bars. No. 1,306,983; June 17; v. 263; p. 391.
- Wells, Elijah F., Rummerville, Pa. Automobile-tire chain. No. 1,290,441; Jan. 7; v. 258; p. 103.
- Wells, Elmer E., Stockton, Calif. Oiling attachment for motor-vehicles. No. 1,315,616; Sept. 9; v. 266; p. 217.
- Wells, Ernest, New York, N. Y. Box. No. 1,309,499; July 8; v. 264; p. 303.
- Wells, Frank E. (See Wells, Willet C. and F. E.)
- Wells, Frank O., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Limit-gage. No. 1,307,426; June 24; v. 263; p. 506.
- Wells, George F., Elyria, Ohio. Rubber heel for shoes. No. 1,325,822; Dec. 23; v. 269; p. 612.
- Wells, Henry G. (See Sinn and Wells.)
- Wells, Henry M., St. Ames-on-Sea, near Blackpool, and J. E. Southcombe, Birkenhead, England. Lubricating-oil. No. 1,319,129; Oct. 21; v. 267; p. 366.
- Wells, Henry W., Van Nuys, Cal. Game-cards. No. 1,292,184; Jan. 21; v. 258; p. 576.
- Wells, Hewitt L., Washington, D. C. Form for concrete joists. No. 1,301,770; Apr. 22; v. 261; p. 771.
- Wells, Homer C., Mathis, Tex. Grain-harvester. No. 1,295,651; Feb. 25; v. 259; p. 711.
- Wells, James B., Tacoma, Wash. Automatic dump-body for vehicles. No. 1,301,023; Apr. 15; v. 261; p. 587.
- Wells, Jewel W., assignor to A. Mueller, trustee, Decatur, Ill. Wall-fitting for cocks. No. 1,319,817; Oct. 28; v. 267; p. 521.
- Wells, Joel C., Southbridge, Mass. Ophthalmic mounting. No. 1,302,611; May 6; v. 262; p. 24.
- Wells, John N., Lower Lake, Cal. Cigar-holder. No. 1,295,652; Feb. 25; v. 259; p. 712.
- Wells, John T., Newport, Ky., assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Motion-picture device. No. 1,295,653; Feb. 25; v. 259; p. 712.
- Wells, Lincoln A., Huntley, Mont. Ship-form. No. 1,323,135; Nov. 25; v. 268; p. 688.
- Wells, Otis A., Arnold, assignor to Window Glass Machine Company, Pittsburgh, Pa. Drawing hollow glass articles. No. 1,301,771; Apr. 22; v. 261; p. 771.
- Wells, Randolph A., Kenosha, Wis. Square. No. 1,295,399; Feb. 25; v. 259; p. 652.
- Wells, Raymond, Homer, N. Y., assignor to Cobwell Corporation, Cleveland, Ohio. Extracting values from garbage and the like. No. 1,307,991; June 24; v. 263; p. 609.
- Wells, Raymond, Homer, N. Y., assignor to Cobwell Corporation, Cleveland, Ohio. Extracting values from garbage and the like. No. 1,307,992; June 24; v. 263; p. 609.
- Wells, Samuel A., Grimpass, Idaho. Padlock. No. 1,314,775; Sept. 2; v. 266; p. 56.
- Wells, Walter W. (See Krebs and Wells.)
- Wells, Willet C. and F. E., Columbus, Ohio. Refining, fractionating, and reducing oils. No. 1,296,244; Mar. 4; v. 260; p. 98.
- Wells, Willet C. and F. E., Columbus, Ohio. Furnace for converting energy of fuel into force. No. 1,314,175; Aug. 26; v. 265; p. 523.
- Wells, William S., South Bethlehem, Pa. Loom. No. 1,319,196; Oct. 21; v. 267; p. 380.
- Welsh, Alton S., Limerick, Ireland. Button for wearing-apparel. No. 1,315,752; Sept. 9; v. 266; p. 241.
- Welsbach Company. (See Armstrong, Charles C., assignor.) (Reissue.)
- Welsenaar, Johannes H., Haarlem, Netherlands. Burner for gas-cookers and the like. No. 1,291,814; Jan. 14; v. 258; p. 334.
- Welsh Adjustable Aeroplane Company. (See Welsh, Clyde L., assignor.)
- Welsh, Clyde L., assignor to Welsh Adjustable Aeroplane Company, Pittsburgh, Pa. Aeroplane. No. 1,296,578; Mar. 4; v. 260; p. 170.
- Welsh, Clyde L., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Printing-press fountain. No. 1,315,174; Sept. 2; v. 266; p. 128.
- Welsh, James W. (See Jones and Welsh.)



- Welsh, Katherine L., Omaha, Nebr. Support for flat-irons. No. 1,322,853; Nov. 25; v. 268; p. 635.
- Welsh, Laurence W., Baltimore, Md. Automobile-lock. No. 1,309,925; July 15; v. 264; p. 420.
- Welshausen, William, Allenhurst, N. J. Heater for automobile-radiators. No. 1,293,273; Feb. 4; v. 259; p. 69.
- Welt, Frank L., and W. A. Whitehouse, deceased; J. E. Whitehouse, executrix, assignor of one-half to H. W. Hatch, Somerville, Mass. Adjustable support for desks, tables, seats, or the like. No. 1,300,229; Apr. 8; v. 261; p. 392.
- Welte, Edwin, Freiburg, Germany, assignor, by mesne assignments, to M. Welte & Sons Incorporated, New York, N. Y. Means for synchronizing the operations of sound-producing instruments and moving-picture apparatus or other moving parts. No. 1,325,066; Dec. 16; v. 269; p. 454.
- Welter, Grover C., assignor of one-half to F. G. Young, Roswell, N. Mex. Canteen-holder. No. 1,294,854; Feb. 18; v. 259; p. 505.
- Welton, Harry A., and H. J. Hoyt, Detroit, Mich., assignors to Morgan & Wright. Attachment for plastic-mixing mills. No. 1,308,152; July 1; v. 264; p. 23.
- Welton, Johneta W., Rutherford, N. J. Luminous pen or pencil. No. 1,304,131; May 20; v. 262; p. 373.
- Welty, William A., and H. P. Rayn, Waterloo, Iowa. Fountain-pen. No. 1,299,642; Apr. 8; v. 261; p. 261.
- Wemp, Ernest E., Detroit, Mich. Drive-axle. No. 1,292,185; Jan. 21; v. 258; p. 576.
- Wemple, Leland E., St. Louis, Mo., assignor to American Zinc, Lead & Smelting Co., Boston, Mass. Preparing pigment zinc oxid. No. 1,292,976; Jan. 28; v. 258; p. 786.
- Wenborne-Karpen Dryer Co. (See Lippert, Frederick A., assignor.)
- Wendelken, Frederick S., Denver, Colo. Interlocking culvert-block. No. 1,301,024; Apr. 15; v. 261; p. 587.
- Wendell, Carl A., Rockville Center, N. Y., and S. B. Shutts, Marietta, Pa. Gas-burner. No. 1,313,360; Aug. 19; v. 265; p. 335.
- Wendell, George W., assignor to Union Radiator Company, Johnstown, Pa. Rammer for molding-machines. No. 1,302,612; May 6; v. 262; p. 24.
- Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Photographic-printing apparatus. No. 1,312,289; Aug. 5; v. 265; p. 81.
- Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Auxiliary film-feed. No. 1,315,355; Sept. 9; v. 266; p. 171.
- Wendl, Ferdinand, New York, N. Y. Extension-table. No. 1,294,734; Feb. 18; v. 259; p. 476.
- Wendt, Alfred, Fresno, Calif. Casting device for making band and other rings and parts thereof. No. 1,323,938; Dec. 2; v. 269; p. 135.
- Wendt-Wriedt, Adolf J. T., Alexandria, Va. Splicing and seizing clamp. No. 1,300,794; Apr. 15; v. 261; p. 537.
- Wener, Nils H., assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Gas-analyzing apparatus. No. 1,326,814; Dec. 30; v. 269; p. 835.
- Wengerd, Jonathan, Dalton, Ohio. Lock. No. 1,321,345; Nov. 11; v. 268; p. 250.
- Wenman-Adie, Stanley G. (See Lambert and Wenman-Adie.)
- Wennagel, George F., Baltimore, Md. Dissipating heat from underground conduits. No. 1,307,070; June 17; v. 263; p. 408.
- Wenndorf, Theodor, South Bend, Ind. Street-cleaning machine. No. 1,307,568; June 24; v. 263; p. 531.
- Wenner, Wesley E., Stone Church, Pa. Tire-shield. No. 1,310,315; July 15; v. 264; p. 490.
- Wennerblad, Einar G., Emeryville, assignor of one-half to P. M. Diers, Berkeley, Calif. Rewinding film-reel for projecting-machines. No. 1,298,427; Mar. 25; v. 260; p. 663.
- Wennersten, Henning, Chicago, Ill. Bottle-capping device. No. 1,294,006; Feb. 11; v. 259; p. 272.
- Wenrick, David L., Harrisburg, Pa. Sash-fastener. No. 1,312,933; Aug. 12; v. 265; p. 236.
- Wentink, Frank C., Appleton, Wis. Car-mover. No. 1,324,329; Dec. 9; v. 269; p. 253.
- Wentorf, Robert H., assignor to West Bend Aluminum Company, West Bend, Wis. Percolator. No. 1,297,425; Mar. 18; v. 260; p. 424.
- Wentworth, Arthur M., Pittsfield, Mass., assignor to General Electric Company. Sheathed-wire terminal. No. 1,298,609; Mar. 25; v. 260; p. 702.
- Wentworth, Ernest G., Sacramento, Calif. Automatic light-controller. No. 1,319,818; Oct. 28; v. 267; p. 521.
- Wentworth, Jesse S., Cincinnati, Ohio. Machine for soil-tillage. No. 1,319,936; Oct. 28; v. 267; p. 543.
- Wentworth, Oliver P., Forgan, Okla. Wheat-stacker. No. 1,306,842; June 17; v. 263; p. 366.
- Wentworth, Samuel J., Newport, Ky., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing and shaping the bottoms of lasted shoes. No. 1,297,426; Mar. 18; v. 260; p. 424.
- Wentworth, Samuel J., Newport, Ky., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-forming machine. No. 1,307,284; June 17; v. 263; p. 446.
- Wentworth, Samuel J., Newport, Ky., and F. H. Perry, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. No. 1,307,285; June 17; v. 263; p. 446.
- Wentzell, Lewis P., Greensburg, Pa. Lock. No. 1,295,400; Feb. 25; v. 259; p. 652.
- Wenzel, Jacob B., Bloom, Colo. Machine for making packing-rings. No. 1,322,663; Nov. 25; v. 268; p. 600.
- Werbeck, Walter G., Chicago, Ill. Gage-glass illuminator. No. 1,322,741; Nov. 25; v. 268; p. 615.
- Werbowski, Sam, Chicago, Ill. Soldier's protector. No. 1,297,618; Mar. 18; v. 260; p. 465.
- Werckle, Frank W., assignor to Acme Harvesting Machine Co., Peoria, Ill. Reversible gearing for rakes and tedders. No. 1,304,638; May 27; v. 262; p. 509.
- Werezak, John, St. Julien, Saskatchewan, Canada. Gate. No. 1,297,949; Mar. 18; v. 260; p. 536.
- Werges, Frederick E. (See Konerman and Werges.)
- Weriame, Andrew B., Denver, Colo. Mechanical movement. No. 1,324,945; Dec. 16; v. 269; p. 431.
- Werle, Mathew C., Billings, Mont. Rotary engine. No. 1,298,610; Mar. 25; v. 260; p. 702.
- Werlin, Charles H., Columbus, Ohio. Proportional gas and air mixer. No. 1,320,107; Oct. 28; v. 267; p. 575.
- Werlin, Charles H., Columbus, Ohio. Gas-burner. No. 1,320,108; Oct. 28; v. 267; p. 575.
- Werme, Andrew P. (See Patterson and Werme.)
- Wernel, Joseph, Coffeyville, Kans. Gun-stock attachment. No. 1,307,529; June 24; v. 263; p. 524.
- Werner, Albert, Berlin-Friedenau, assignor to Siemens-Schuckertwerke, G. m. b. H., Berlin, Germany. Systems of boosting electric lines. No. 1,304,132; May 20; v. 262; p. 373.
- Werner, Albert, Berlin, Friedenau, Germany, assignor to Siemens-Schuckertwerke, G. m. b. H., Berlin, Germany. Oil-cooled electric apparatus. No. 1,309,346; July 8; v. 264; p. 275.
- Werner, Alexander, Reading, Pa. Undergarment. No. 1,316,989; Sept. 23; v. 266; p. 536.
- Werner, Frederick W., and H. C. Kendall, Denver, Colo.; said Werner assignor to said Kendall. Railway transfer-ticket. No. 1,294,735; Feb. 18; v. 259; p. 476.
- Werner, Herbert A., et al. (See Routson, Arthur J., assignor.)
- Werner, John A., assignor to The National Cash Register Company, Dayton, Ohio. Registering and recording mechanism. No. 1,302,613; May 6; v. 262; p. 25.
- Werner, John H., Morgan, Minn. Grade-measuring device. No. 1,320,352; Oct. 28; v. 267; p. 620.
- Werner, Joseph, Perth Amboy, N. J. Flushing of bowls of water-closets. No. 1,318,518; Oct. 14; v. 267; p. 225.
- Werner, Leo J., Arlington, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,304,835; May 27; v. 262; p. 546.
- Werner, Leo J., Arlington, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,304,836; May 27; v. 262; p. 546.
- Werner, Leo J., Arlington, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-breaker. No. 1,304,837; May 27; v. 262; p. 546.
- Werner, Leo J., Arlington, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,323,801; Dec. 2; v. 269; p. 108.
- Werner, Paul R., Philadelphia, Pa. Collar-button. No. 1,296,888; Mar. 11; v. 260; p. 278.
- Werner & Pfeiderer Company. (See Pletscher and Reese, assignors.)
- Werner & Pfeiderer Co. (See Reese, Louis C., assignor.)
- Werner, Ray, San Francisco, Calif. Combined pneumatic mattress and garment. No. 1,316,469; Sept. 16; v. 266; p. 390.
- Werner, Samuel, Brooklyn, N. Y. Sweat-band for hats. No. 1,292,186; Jan. 21; v. 258; p. 577.
- Werner, Victor G., Boden, and K. H. Warfvinge, Stockholm, Sweden. Inductive wireless telephone system for railways and the like. No. 1,312,068; Aug. 5; v. 265; p. 41.
- Werner, William F., Brooklyn, N. Y. Furniture-foot. No. 1,305,427; June 3; v. 263; p. 37.
- Wernery, Lester A., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Set of manifold-ing sheets. No. 1,299,643; Apr. 8; v. 261; p. 261.
- Wernery, Lester A., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Sheet-collating. No. 1,314,776; Sept. 2; v. 266; p. 56.
- Wernette, Adolph J., assignor of one-half to B. R. Farrar and one-half to A. E. Wernette, Los Angeles, Calif. Self-adjusting grinder. No. 1,305,759; June 3; v. 263; p. 100.
- Wernette, Annie E., et al. (See Wernette, Adolph J., assignor.)
- Wernicke, Louis, West Bend, Wis. Trap. No. 1,322,664; Nov. 25; v. 268; p. 600.
- Werschansky, Sachary S., New York, N. Y. Gas-lighter. No. 1,297,050; Mar. 11; v. 260; p. 315.
- Wersel, Frank B., Jr., Cincinnati, Ohio. Davenport-bed. No. 1,314,109; Aug. 26; v. 265; p. 511.
- Wertenbruch, Antony, assignor to The Larrowe Construction Company, Detroit, Mich. Pulp-press. No. 1,299,524; Apr. 8; v. 261; p. 235.



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- Wertchenbruch, Antony, Detroit, Mich., assignor to The Larowe Milling Company, Cohocton, N. Y. Drier. No. 1,314,994; Sept. 2; v. 266; p. 96.
- Werth, John M., Ceredo, W. Va. Rail-joint support. No. 1,315,063; Sept. 2; v. 266; p. 108.
- Werth, Reinhardt W., Brooklyn, N. Y. Mixer. No. 1,293,274; Feb. 4; v. 259; p. 70.
- Wertman, Milton A., Toledo, assignor to The Biggs-Watson Co., Cleveland, Ohio. Machine-tool. No. 1,308,152; July 1; v. 264; p. 27.
- Werts, Clifton E. and W. G. Russell, Iowa. Earth-handling machine. No. 1,296,347; Mar. 4; v. 260; p. 120.
- Werts, Le Roy, Milford, Mo. Kerosene-vaporizer for motor-cars. No. 1,314,447; Aug. 26; v. 265; p. 576.
- Werts, Le Roy, Milford, Mo. Fuel-vaporizer. No. 1,317,248; Sept. 30; v. 266; p. 621.
- Werts, Walter G. (See Werts, Clifton E. and W. G.)
- Werts, William D., assignor of twenty one-hundredths to J. A. Sherer, Los Angeles, Cal. Rear-axle drive mechanism for automobiles. No. 1,294,985; Feb. 18; v. 259; p. 534.
- Wertz, John A., and P. G. Myers, Canton, Ohio. Signaling device. No. 1,298,840; Apr. 1; v. 261; p. 52.
- Wertzler, Mathias C., Hailey, Idaho. Attachments for automobiles. No. 1,320,517; Nov. 4; v. 268; p. 30.
- Wescott, Dana E., South Bend, Ind. Electric lighting system. No. 1,301,206; Apr. 22; v. 261; p. 661.
- Wescott, Dana E., assignor to L. M. Hammerschmidt, trustee, South Bend, Ind. Cut-out for electric-lighting systems. No. 1,313,438; Aug. 19; v. 265; p. 350.
- Wescott, William B., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Method and apparatus for producing motion-pictures. No. 1,309,672; July 15; v. 264; p. 373.
- Wescott, William B., Wellesley, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Cinematography. No. 1,309,673; July 15; v. 264; p. 374.
- Wesler, Harry F. (See Du Chesne, Harry F., assignor.)
- Wesley, Arthur, Chicago, Ill. Baby walker and swing. No. 1,302,743; May 6; v. 262; p. 49.
- Wesley, Perley R., assignor to Davol Rubber Company, Providence, R. I. Ice-bag. No. 1,322,984; Nov. 25; v. 268; p. 660.
- Wesley, Jones, Brooklyn, N. Y. Cart and loader. No. 1,292,670; Jan. 28; v. 258; p. 714.
- Wesner, Wilton W., Gloucester City, N. J. Combined electric-light bracket and socket. No. 1,294,986; Feb. 18; v. 259; p. 535.
- Wesolek, Richard A., Toledo, Ohio. Circuit-closer. No. 1,307,286; June 17; v. 263; p. 447.
- Wessel, Karl, St. Paul, Minn. Heat-insulating material. No. 1,295,654; Feb. 25; v. 259; p. 712.
- Wessinger, Lon W., San Antonio, Tex. Adjustable trunk-rack. No. 1,300,533; Apr. 15; v. 261; p. 483.
- Wessman, Edwin G., Passaic, N. J. Cup-dispensing apparatus. No. 1,303,433; May 13; v. 262; p. 207.
- Wessmann, Alfred C., New York, N. Y. Bookbinding. No. 1,290,442; Jan. 7; v. 258; p. 103.
- Wessmann, Alfred C., New York, N. Y. Rack for book-covers and the like. No. 1,297,619; Mar. 18; v. 260; p. 465.
- Wessolek, Augustus W., assignor to The American Hardware Corporation, New Britain, Conn. Speedometer. No. 1,290,443; Jan. 7; v. 258; p. 103.
- Wessolek, Charles, Hartford, Conn. Sash-holder. No. 1,318,468; Oct. 14; v. 267; p. 215.
- Wesson, Joseph H., assignor to Smith & Wesson, Springfield, Mass. Automatic pistol. No. 1,290,855; Jan. 7; v. 258; p. 201.
- West, Arthur, Blackwell, Okla. Record-index. No. 1,317,114; Sept. 23; v. 266; p. 560.
- West Bend Aluminum Company. (See Wentorf, Robert H., assignor.)
- West, Charles C. (See Loetzer, Christian E., assignor.)
- West Coast Roofing and Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
- West Disinfecting Company. (See Marcuse, Moses M., assignor.)
- West, Earl, San Francisco, Calif. Periscope. No. 1,298,611; Mar. 25; v. 260; p. 702.
- West, Edward C. (See Pratt and West.)
- West, Edward F., Port Huron, Mich., assignor of one-half to T. C. Hunter, Springfield, Mo. Vehicle-wheel. No. 1,295,401; Feb. 25; v. 259; p. 652.
- West, George W. (See Walls, Marion C., assignor.)
- West, George W., assignor to F. L. McClain, Fairfield, Iowa. Brush-holder. No. 1,296,245; Mar. 4; v. 260; p. 98.
- West, Glen C., Ashkum, Ill. Trailer-coupling for wagons. No. 1,293,275; Feb. 4; v. 259; p. 70.
- West, Harley L., Crested Butte, assignor of one-third to B. L. Cress, Redcliff, Colo. Pressure-gage for vehicles. No. 1,300,534; Apr. 15; v. 261; p. 483.
- West, Harry H., Plymouth, Pa. Machine for forming tatting-braid. No. 1,313,439; Aug. 19; v. 265; p. 350.
- West Highlands Citrus Association. (See Jackson, Hugh H., assignor.)
- West, James. (See Jaques, Elise, assignor.)
- West, James R., Morenci, Ariz. Water-gage. No. 1,307,225; June 17; v. 263; p. 435.
- West, John B., Syracuse, N. Y. Duplicating-machine. No. 1,300,310; Apr. 15; v. 261; p. 435.
- West, John B., Syracuse, N. Y. Automatic regulator for internal-combustion engines. No. 1,317,844; Oct. 7; v. 267; p. 35.
- West, John W. (See Sawyer and West.)
- West, John W., Braintree, Mass. Control device for winding-machine. No. 1,317,057; Sept. 23; v. 266; p. 548.
- West, Joseph M., Rockport, Mo. Game-table. No. 1,314,843; Sept. 2; v. 266; p. 68.
- West, Leo S., Washington, D. C., assignor of one-half to L. D. Bundara, Philadelphia, Pa. Comb. No. 1,323,136; Nov. 25; v. 268; p. 689.
- West Newton Company, The. (See Collins, Roy V., assignor.)
- West, Robert E., Colorado Springs, Colo. Apparatus for preparing coffee infusions. No. 1,291,315; Jan. 14; v. 258; p. 334.
- West, Thomas E., Oak Park, Ill. Cultivator. No. 1,298,841; Apr. 1; v. 261; p. 52.
- West, Thomas, Louisville, Ky. Steam cooking or warming attachment for stoves. No. 1,319,544; Oct. 21; v. 267; p. 446.
- West, Timothy, Oakland, Calif. Parcel-post chart. No. 1,326,240; Dec. 30; v. 269; p. 726.
- West Virginia Pulp & Paper Company. (See Drewsen, Viggo, assignor.)
- West Virginia Pulp and Paper Company. (See Statham, Noel, assignor.)
- West, Walter A., Elkhorn, Wis. Milk-cocoa compound and producing same. No. 1,308,770; July 8; v. 264; p. 168.
- West, William. (See Anderson, Gideon, assignor.)
- Westad, Abraham G., and E. L. Hagg, Hunsfos, Norway. Circulating apparatus for cellulose-digesters. No. 1,309,267; July 8; v. 264; p. 260.
- Westad, Abraham G., and E. L. Hagg, Hunsfos, assignors to Aktieselskabet G. Hartmann, Christiania, Norway. Sieve for wood-pulp plants. No. 1,313,145; Aug. 12; v. 265; p. 279.
- Westall, John, Fall River, Mass. Crude-oil burner. No. 1,293,590; Feb. 4; v. 259; p. 143.
- Westberg, Sigurd, Christiania, Norway. Reduction process. No. 1,310,724; July 22; v. 264; p. 596.
- Westbury, William, Okmulgee, Okla. Glass-drawing apparatus. No. 1,307,943; June 24; v. 263; p. 600.
- Westbury, William, Okmulgee, Okla. Drawing glass cylinders. No. 1,307,946; June 24; v. 263; p. 601.
- Westbury, William, Okmulgee, Okla. Glass-drawing apparatus. No. 1,326,241; Dec. 30; v. 269; p. 726.
- Westbury, William, assignor to L. S. Skelton, Okmulgee, Okla. Glass-furnace. No. 1,294,581; Feb. 18; v. 259; p. 441.
- Westbury, William, assignor to L. S. Skelton, Okmulgee, Okla. Drawing glass cylinders. No. 1,306,651; June 10; v. 263; p. 298.
- Westcott, Arthur W., Los Angeles, Calif. Magnetic fishing-tool. No. 1,310,169; July 15; v. 264; p. 464.
- Westcott, John. (See Marshall, William, assignor.)
- Westcott, Orion D., Vancouver, Wash. Combination baby and commode chair. No. 1,325,270; Dec. 16; v. 269; p. 492.
- Westerberg, Arvid. (See Bore and Skoglund, assignors.)
- Westergaard, Peter J., Reinbeck, Iowa. Water-jacket for internal-combustion engines. No. 1,305,041; May 27; v. 262; p. 584.
- Westergaard, Christ. Denbigh, N. D. Spring-mounting for vehicle-bodies. No. 1,292,939; Jan. 28; v. 258; p. 777.
- Westergaard, Einar, Hollyoak, Del. Glazier-box. No. 1,310,725; July 22; v. 264; p. 596.
- Westergaard, Oluf H. (See Nelson, John J., assignor.)
- Westergren, George O., et al. (See Nelson, Hjalmer A., assignor.)
- Westerman, Frederick, Chicago, Ill. Depositing-machine. No. 1,290,444; Jan. 7; v. 258; p. 104.
- Westermann, Carl F., Vallejo, assignor to Spring Hub Automobile Wheel Corporation, San Francisco, Calif. Spring-wheel for vehicles. No. 1,320,663; Nov. 4; v. 268; p. 57.
- Western Automobile Company. (See Pichl, Anthony J., assignor.)
- Western Bank Supply Company. (See Coleman, Stephen R., assignor.)
- Western Clock Co. (See Kern, George, assignor.)
- Western Doll and Toy Mfg. Co. (See Caccialanza, Romeo, assignor.)
- Western Electric Company. (See Adams, Arthur H., assignor.)
- Western Electric Company. (See Adams, Edgar W., assignor.)
- Western Electric Company. (See Akin, Allison, assignor.)
- Western Electric Company. (See Anderson, Olaf, assignor.)
- Western Electric Company. (See Arnold, Harold D., assignor.) (Reissue.)
- Western Electric Company. (See Atchison and Steimer, assignors.)
- Western Electric Company. (See Atwood, George F., assignor.)
- Western Electric Company. (See Bell, John H., assignor.)
- Western Electric Company. (See Bellamy and Smith, assignors.)



- Western Electric Company. (See van der Bijl, Hendrik J., assignor.)
- Western Electric Company. (See Booth, William T., assignor.)
- Western Electric Company. (See Boving, Henrik, assignor.)
- Western Electric Company. (See Bowman, Herman N., assignor.)
- Western Electric Company. (See Britten, William G., assignor.)
- Western Electric Company. (See Brough and Dodge, assignors.)
- Western Electric Company. (See Buckley, Oliver E., assignor.)
- Western Electric Company. (See Carpenter, Warren W., assignor.)
- Western Electric Company. (See Carroll, Louis W., assignor.)
- Western Electric Company. (See Clark, Edgar H., assignor.)
- Western Electric Company. (See Clausen, Henry P., assignor.)
- Western Electric Company. (See Clausen and Goodrum, assignors.)
- Western Electric Company. (See Cole, Ira E., assignor.)
- Western Electric Company. (See Conway, Roy D., assignor.)
- Western Electric Company. (See Corson, Floyd W., assignor.)
- Western Electric Company. (See Crawford and Stevenson, assignors.)
- Western Electric Company. (See Cummings, George C., assignor.)
- Western Electric Company. (See Curtis, Austen M., assignor.)
- Western Electric Company. (See De Vignier and Frelle, assignors.)
- Western Electric Company. (See Deakin, Gerald, assignor.)
- Western Electric Company. (See Deakin and Polinkowsky, assignors.)
- Western Electric Company. (See Dundell, Alben E., assignor.)
- Western Electric Company. (See Dyson, Alfred H., assignor.)
- Western Electric Company. (See Edwards, George D., assignor.)
- Western Electric Company. (See Egerton, Henry C., assignor.)
- Western Electric Company. (See Elmen, Gustaf W., assignor.)
- Western Electric Company. (See Everett, Samuel H., assignor.)
- Western Electric Company. (See Field, Joseph C., assignor.)
- Western Electric Company. (See Finley, Charles A., assignor.)
- Western Electric Company. (See Ford, William H. D., assignor.)
- Western Electric Company. (See Forsberg, Oscar F., assignor.)
- Western Electric Company. (See Gargan, John O., assignor.)
- Western Electric Company. (See Glunt, Omer M., assignor.)
- Western Electric Company. (See Goodrum, Charles L., assignor.)
- Western Electric Company. (See Griswold, George L., assignor.)
- Western Electric Company. (See Guthe, Olof D. M., assignor.)
- Western Electric Company. (See Hague, Alfred E., assignor.)
- Western Electric Company. (See Harlow, John B., assignor.)
- Western Electric Company. (See Hazard, Allen B., assignor.)
- Western Electric Company. (See Hinrichsen, Edward E., assignor.)
- Western Electric Company. (See Hitchcock, Albert W., assignor.)
- Western Electric Company. (See Hosford, William F., assignor.)
- Western Electric Company. (See Houskeeper, William G., assignor.)
- Western Electric Company. (See Hovland, Henry, assignor.)
- Western Electric Company. (See Jenkins, George M. O., assignor.)
- Western Electric Company. (See Johnson, Edgar D., assignor.)
- Western Electric Company. (See Johnson, Kenneth S., assignor.)
- Western Electric Company. (See Johnson, Lewis H., assignor.)
- Western Electric Company. (See Keckler, Charles W., assignor.)
- Western Electric Company. (See Kelsall, George A., assignor.)
- Western Electric Company. (See Kochendorfer, Fred-eric S., assignor.)
- Western Electric Company. (See Kochendorfer and Blount, assignors.)
- Western Electric Company. (See Kropp, John A., assignor.)
- Western Electric Company. (See Lamplough, Leslie F., assignor.)
- Western Electric Company. (See Larlee, Herman A., assignor.)
- Western Electric Company. (See Laurenz, Otto, assignor.)
- Western Electric Company. (See Lewis, Herbert C., assignor.)
- Western Electric Company. (See Lorimer, George W. and J. H., assignors.)
- Western Electric Company. (See Lowe, Charles W., assignor.)
- Western Electric Company. (See Lundell, Alben E., assignor.)
- Western Electric Company. (See Lundell and Clark, assignors.)
- Western Electric Company. (See Lundell and Stearn, assignors.)
- Western Electric Company. (See Lundius, Eric R., assignor.)
- Western Electric Company. (See Lundquist, Frank A., assignor.)
- Western Electric Company. (See MacDougall, Harry W., assignor.)
- Western Electric Company. (See Magrath, Arthur C., assignor.)
- Western Electric Company. (See Malcolmson and Ward, assignors.)
- Western Electric Company. (See Mathes, Robert C., assignor.)
- Western Electric Company. (See May, David T., assignor.)
- Western Electric Company. (See Maxfield, Joseph P., assignor.)
- Western Electric Company. (See McMurphy, Fred R., assignor.)
- Western Electric Company. (See McQuarrie, James L., assignor.)
- Western Electric Company. (See McQuarrie and Clausen, assignors.)
- Western Electric Company. (See McQuarrie and Goodrum, assignors.)
- Western Electric Company. (See Merritt, Benjamin F., assignor.)
- Western Electric Company. (See Miller, Daniel D., assignor.)
- Western Electric Company. (See Moran, John F., assignor.)
- Western Electric Company. (See Mortimer and Cummings, assignors.)
- Western Electric Company. (See Nash and Grace, assignors.)
- Western Electric Company. (See Nichols, Harold W., assignor.)
- Western Electric Company. (See Nicolson, Alexander M., assignor.)
- Western Electric Company. (See Pfannestiehl, Harry, assignor.)
- Western Electric Company. (See Pinkler, Arthur P., assignor.)
- Western Electric Company. (See Polinkowsky, Lipa, assignor.)
- Western Electric Company. (See Pruessman, Albert, assignor.)
- Western Electric Company. (See Quass, Ralph L., assignor.)
- Western Electric Company. (See Rainey, Paul M., assignor.)
- Western Electric Company. (See Rasmussen, Oswald E., assignor.)
- Western Electric Company. (See Reynolds, John N., assignor.)
- Western Electric Company. (See Reynolds and Hearn, assignors.)
- Western Electric Company. (See Rhoads, Charles S., Jr., assignor.)
- Western Electric Company. (See Sager, John W., assignor.)
- Western Electric Company. (See Scribner and McQuarrie, assignors.)
- Western Electric Company. (See Shackelton, William J., assignor.)
- Western Electric Company. (See Shreeve, Herbert E., assignor.)
- Western Electric Company. (See Slaughter, Nugent H., assignor.)
- Western Electric Company. (See Smith, Roy H., assignor.)
- Western Electric Company. (See Spamer, Richard F., assignor.)
- Western Electric Company. (See Speed, James B., assignor.)
- Western Electric Company. (See Sperry, Arthur B., assignor.)
- Western Electric Company. (See Stoller, Hugh M., assignor.)
- Western Electric Company. (See Taggart, Dawson M., assignor.)



## Alphabetical list of patentees—Continued.

- Western Electric Company. (See Ulrich, Horace W., assignor.)  
 Western Electric Company. (See Wickstrom, Charles A., assignor.)  
 Western Electric Company. (See Wilbur, Ray S., assignor.)  
 Western Electric Company. (See Wilbur and Ulrich, assignors.)  
 Western Electric Company. (See Williams, Samuel B., Jr., assignor.)  
 Western Electric Company. (See Williams and Quass, assignors.)  
 Western Electric Company. (See Woodruff, John C., assignor.)  
 Western Electric Company. (See Wotton, James A., assignor.)  
 Western Electric Company. (See Wray, Archibald, assignor.)  
 Western Electric Company. (See Wright, Joseph L., assignor.)  
 Western Electric Company. (See Young, Frederick V., assignor.)  
 Western Hog Oiler Company. (See Busby, Harley S., assignor.)  
 Western Hog Oiler Company. (See Crull, Charles V., assignor.)  
 Western Rubber Company. (See Gregory, Morton, assignor.)  
 Western States Machine Company. (See Gibson, Angus H., assignor.)  
 Western States Machine Company, The. (See Roberts, Eugene, assignor.)  
 Western Steel Auto-Wheel Company. (See Williams, John W., assignor.)  
 Western Tool & Manufacturing Company, The. (See Saum, Robert J., assignor.)  
 Western Union Telegraph Company, The. (See Beasley, Harry K., assignor.)  
 Western Union Telegraph Company, The. (See Benjamin, George R., assignor.)  
 Western Union Telegraph Company, The. (See Yorke and Benjamin, assignors.)  
 Western Vulcanizer Manufacturing Company. (See Wheelock, Herbert K., assignor.)  
 Western Wheeled Scraper Company. (See McKnight, Thomas B., assignor.)  
 Western Wheeled Scraper Company. (See Rhodes, Jay B., assignor.)  
 Westervelt, Vincent, Bloomington, N. J. Curtain-bracket, No. 1,313,768; Aug. 19; v. 265; p. 412.  
 Westin, Per, Stockholm, Sweden. Concentrating solutions. No. 1,315,889; Sept. 9; v. 266; p. 268.  
 Westingham Electric & Manufacturing Co. (See Ehrhart, Raymond N., assignor.)  
 Westinghouse Air Brake Company, The. (See Brown, Thomas R., assignor.)  
 Westinghouse Air Brake Company, The. (See Rowntree, Harold, assignor.)  
 Westinghouse Air Brake Company, The. (See Cady, William M., assignor.)  
 Westinghouse Air Brake Company, The. (See Cass, Christopher P., assignor.)  
 Westinghouse Air Brake Company, The. (See Dean, William E., assignor.)  
 Westinghouse Air Brake Company, The. (See Dewson, Edward H., assignor.)  
 Westinghouse Air Brake Company, The. (See Donovan, Patrick H., assignor.)  
 Westinghouse Air Brake Company, The. (See Down, Sidney G., assignor.)  
 Westinghouse Air Brake Company, The. (See Loudenbeck, Harry C., assignor.)  
 Westinghouse Air Brake Company, The. (See Newell, Edward W., assignor.)  
 Westinghouse Air Brake Company. (See Turner, Walter V., assignor.)  
 Westinghouse Air Brake Company, The. (See Turner and Thomas, assignors.)  
 Westinghouse Electric & Manufacturing Co. (See Fredette, John, assignor.)  
 Westinghouse Electric & Manufacturing Co. (See Hodgkinson, Francis, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Aalborg, Christian, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Abtmeyer, Theodore, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Ahlburg, Frank, assignor.) (Reissue.)  
 Westinghouse Electric & Manufacturing Company. (See Allcutt, Chester T., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Applegarth and Taylor, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Aspinwall, Louis M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Atherton, Carley A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Anel and Pultney, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Austin, Walter M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Baker, Ralph, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Beach, Howard L., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Bender, Allan P., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Berst, Charles B., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Birdsall, Wilfred T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Birrell, Joseph D., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Boddie, Clarence A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Boggs, Addison E., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Brackett, Quincy A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Bradshaw, William M., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Bradshaw and Boddie, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Bradshaw and Mylius, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Braley, Howard D., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Broomall, Aubrey L., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Broomall and Ferris, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Broomall and Tidlund, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Brown, James M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Candee and Johnston, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Candy, Albert M., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Carpenter, David E., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Chernyshoff, Alexander, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Chubb, Lewis W., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Chubb and Brown, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Clarke, John A., Jr., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Colby, Ora A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Cole, Gurney H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Conrad and Aalborg, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Cook, Joel R., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Cooper, Peter P., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Copley, Almon W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Copley and Fortescue, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Coulson, John, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Crichton, Leslie N., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Cullings, Roswell E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Davies, James A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Davis, David C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Davis, Joseph L., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Davis, Harry P., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Davis and Eaton, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Dean, John S., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Denman, Earl W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Deutsch, Edward I., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Deutsch, Isidor, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Dudley, Adolphus M., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Dyer, John B., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Eaton, George M., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Eaton and Davis, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Eaton and Hellmund, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Eaton and Holy, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond A., assignor.) (Reissue.)  
 Westinghouse Electric and Manufacturing Company. (See Ellis and Thompson, assignors.)



*Alphabetical list of patentees—Continued.*

- Westinghouse Electric and Manufacturing Company. (See Elshoff, Bernard, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Ferris, Ralph E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Flanders, Warren B., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Fornander, Erik, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Ferris, Ralph E., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Field and Griffith, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Frederick, Louis T., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Fuchs and Cook, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Griffith, Israel L., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Garcelon, Bartmess, and Chantemerle, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Gudge, Benjamin J., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hague, Floyd T., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hall, Arthur J., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hall, David, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hall and Perkins, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Hanker, Frederick C., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hansell, John B., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Harlow, George, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hartenheim, Max, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hellmund and Dobson, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Hellmund and Ferris, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Hellmund and Morris, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Hellmund and Nottage, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Hellmund and Starker, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Herr, Herbert T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hibbard, Lloyd J., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hickling, Frederick G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hipple, Oliver P., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hoey, Samuel C., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hohman, Joseph, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hollis, Harry, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Holy, George H. F., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Huey, George W., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Jackson, Ray P., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Jennings, Oliver S., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Johnson, Josiah F., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Johnston, Howard H., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Juhlin, Gustaf A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Jungk, Herbert G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Kempton and Thomas, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Knight, John A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Kunkle, Bayard D., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Ladoff and Moore, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Lambert, Myles B., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lamme, Benjamin G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Langguth, Joseph O., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Langley, Jesse R., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Lehr, Edwin, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Leisenring, John, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Lincoln and Smith, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Little, George M., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Luckey, George P., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Lum, Walter O., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Lynch, Tillman D., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See MacDonald, Howard G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Mahoney, Joseph N., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Mahoney and MacDonald, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Mardis, Paul L., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Mardis and Condee, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Mardis and Hall, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Marks, Charles E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See McClain, John R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See McCloskey, Frederick W., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See McCoy, James P. A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See McManigal, Robert D., Jr., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Meyer, Friedrich W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Moray, Archie F., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Morris, Hurd T., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Moss, Hanker, Travers, and Conrad, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Newbury, Frank D., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Newbury, Frank D., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Newcomb, Harold A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Nikonow, John P., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Nottage, Stanley G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Nutting, Perley G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Parker, John C., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Perkins, Laurence M., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Peters, John P., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Pribil, Alexis R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Proctor, Joseph H., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Patten, Francis H., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Perkins, Laurence M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Pukerud, Thomas S., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Radovanovitch, Demetrius M., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Reardon, William J., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Riley, Lynn G., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Rosenberg, Emanuel, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Sandfield, Michael, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Schaafe, William, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Schenck, Samuel B., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Schoepf, Theodore H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Scott, Charles F., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Shepard, Francis H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Simmon and Aspinwall, assignors.)



## Alphabetical list of patentees—Continued.

- Westinghouse Electric and Manufacturing Company. (See Simon and Hall, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Simon and Morris, assignors.) (Reissue.)
- Westinghouse Electric and Manufacturing Company. (See Simon and Riley, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Sipher, Edmund F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Skinner, Charles E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Walter H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, William W., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Starker, Charles W., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Starker and Hellmund, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Starker and Kronfeld, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Starker and Lambert, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Starker and Pribil, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Stevenson, William D., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Storer, Norman W., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Strutt, William, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sykes, Wilfred, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Taylor, Horace V. S., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thornton and Colby, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Thornton and Zuck, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Tidlund, Edwin G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Tirrill, Allen A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Trent, Harold E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Turnbull, Lawrence W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils J. A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Weber, Clifford A. M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Webster, John E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Whittaker, Charles C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wilson, Charles E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wurts, Thomas C., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Wynne, Francis E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Zuck, Emerson S., assignor.)
- Westinghouse Gear and Dynamometer Company. (See Davies, James A., assignor.)
- Westinghouse Gear & Dynamometer Company, The. (See Macalpine, John H., assignor.)
- Westinghouse Gear & Dynamometer Company. (See Schmidt, Henry F., assignor.)
- Westinghouse Lamp Company. (See Birdsall, Wilfred T., assignor.)
- Westinghouse Lamp Company. (See Dennington, Arthur R., assignor.)
- Westinghouse Lamp Company. (See Elsler, Charles, assignor.)
- Westinghouse Lamp Company. (See Hoyt, Milton A., assignor.)
- Westlake, Charles T., St. Louis, Mo. Internal-combustion engine. No. 1,291,316; Jan. 14; v. 258; p. 334.
- Westlake, Charles T., St. Louis, Mo. Internal-combustion engine. No. 1,313,033; Aug. 12; v. 265; p. 256.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Double-roll crusher. No. 1,314,031; Aug. 26; v. 265; p. 496.
- Westlake Machine Company, The. (See Kadow, August, assignor.)
- Westle, John E., et al., executors. (See Scott, Charles H.)
- Westlin, Richard V., Eltchburg, Mass. Adjustable gas-burner. No. 1,307,226; June 17; v. 263; p. 435.
- Westling, Eric H., Antioch, Calif. Obtaining manganese peroxid. No. 1,325,129; Dec. 16; v. 269; p. 466.
- Westlund, Albert F. (See Smith and Westlund.)
- Westly, Jens, Lysaker, near Christiania, Norway, assignor to Sulitelma Aktiebolag, Helsingborg, Sweden. Apparatus for pneumatic conveyance of materials. No. 1,308,464; July 1; v. 264; p. 83.
- Westman, Carl J., assignor to Aktiebolaget Zeus, Stockholm, Sweden. Dust-shield for bearings. No. 1,302,614; May 6; v. 261; p. 25.
- Westman, Carl J., assignor to Aktiebolaget Zeus, Stockholm, Sweden. Ball-retainer for ball-bearings. No. 1,321,687; Nov. 11; v. 268; p. 314.
- Westmore, Halward G., assignor to A. O. Smith Corporation, Milwaukee, Wis. Spring-hanger. No. 1,323,561; Dec. 2; v. 269; p. 64.
- Weston, Edward B., Dayton, Ohio, assignor, by mesne assignments, to National Biscuit Company, New York, N. Y. Display-rack. No. 1,319,130; Oct. 21; v. 267; p. 366.
- Weston, Frank J., Cheyenne, Wyo. Beet-harvester. No. 1,302,259; Apr. 29; v. 261; p. 893.
- Weston, Ira, Pueblo, Colo. Ball-bearing caster. No. 1,311,477; July 29; v. 264; p. 770.
- Weston, John W., Molus, Ky. Level and square. No. 1,319,545; Oct. 21; v. 267; p. 446.
- Weston, Leopold, and J. R. Jones, Northcote, Auckland, New Zealand. Bilge-pump. No. 1,305,508; June 3; v. 263; p. 52.
- Weston, Leopold, and J. R. Jones, Northcote, Auckland, New Zealand. Bilge-pump. No. 1,305,509; June 3; v. 263; p. 53.
- Weston, Thomas I., Columbia, S. C. Siphon construction. No. 1,297,280; Mar. 11; v. 260; p. 364.
- Weston, Thomas M., Chicago, Ill. Soil preparer and cultivator. No. 1,304,838; May 27; v. 262; p. 546.
- Weston, William S., Houston, Tex. Hydraulic clutch and traction equalizer. No. 1,306,872; June 17; v. 263; p. 371.
- Westphal, Louis C., assignor to S. Karpen & Bros., Chicago, Ill. Sofa-bed. No. 1,299,885; Apr. 8; v. 261; p. 317.
- Wetmore, Albert G. (See Buechler, John R., assignor.)
- Wetmore, Cyril H., Seneca, Kans. Overall-suspender fastener. No. 1,298,842; Apr. 1; v. 261; p. 53.
- Wetter, Charles W., St. Gallen, Switzerland. Punch for embroidering-machines. No. 1,320,948; Nov. 4; v. 268; p. 111.
- Wetter, Ralph E., assignor to Universal Traffic Control Company, Dallas, Tex. Signal apparatus. No. 1,326,009; Dec. 23; v. 269; p. 646.
- Wetzel, Charles H., Wayne, Pa. Portable grand stand. No. 1,318,192; Oct. 7; v. 267; p. 102.
- Wetzel, Lewis C., Toledo, Ohio, assignor, by mesne assignments, to Toledo Scale Company, Newark, N. J. Weighing-scale. No. 1,324,574; Dec. 9; v. 269; p. 301.
- Wetzel, Max A., Merrill, Wis. Wearing-apparel. No. 1,302,108; Apr. 29; v. 261; p. 865.
- Weyer, Orval A., Forest, Ontario, Canada. Automobile-signal. No. 1,299,079; Apr. 1; v. 261; p. 106.
- Wexler, Benjamin, Brooklyn, N. Y., assignor to The Peelle Company. Elevator-door. No. 1,295,655; Feb. 25; v. 259; p. 712.
- Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Vertically-sliding door for elevator-shafts. No. 1,299,886; Apr. 8; v. 261; p. 317.
- Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Elevator-shaft door. (Reissue.) No. 1,463,7; Apr. 15; v. 261; p. 603.
- Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Latch for elevator-doors. No. 1,314,551; Sept. 2; v. 266; p. 14.
- Wexler, Benjamin, assignor to The Peelle Company, Brooklyn, N. Y. Controlling mechanism for elevators. No. 1,314,552; Sept. 2; v. 266; p. 14.
- Weydemeyer, Otto (See Weber and Clemens, assignors.)
- Weyland, Jonas A., Djursholm, Sweden. Compressed-air starting and reversing device for internal-combustion engines. No. 1,314,553; Sept. 2; v. 266; p. 15.
- Weymann, Harry W., Philadelphia, Pa., assignor to H. A. Weymann and Son. Banjo attachment. No. 1,312,882; Aug. 12; v. 265; p. 226.
- Whalen, James, Omaha, Nebr. Valve and ignition mechanism for gas-stoves. No. 1,312,655; Aug. 12; v. 265; p. 182.
- Whalen, Kearns J. (See Archer, Andrew, assignor.)
- Whalen, Thomas J., Kittanning, Pa. Tire. No. 1,321,688; Nov. 11; v. 268; p. 315.
- Whalen, Thomas M., Erie, Pa. Method and apparatus for forming steel ingots. No. 1,319,500; Oct. 21; v. 267; p. 438.
- Whaley, Lewis E. (See Whaley, Winfred W., assignor.)
- Whaley, William B. S., Malden, assignor, to American Whaley Engine Company, Boston, Mass. Ignition apparatus for internal-combustion engines. No. 1,319,197; Oct. 21; v. 267; p. 380.
- Whaley, Winfred W., Wilmington, N. C. Fly-swatter. No. 1,293,591; Feb. 4; v. 259; p. 143.
- Whaley, Winfred W., Wilmington, assignor of one-half to L. E. Whaley, Lumberton, N. C. Parachute. No. 1,319,546; Oct. 21; v. 267; p. 446.
- Whalley, Enoch, Willimansett, Mass. Safety-crank for explosive-engines. No. 1,318,037; Oct. 7; v. 267; p. 72.
- Whalley, Enoch, Willimansett, Mass. Concrete-mixer. No. 1,322,854; Nov. 25; v. 268; p. 636.
- Whalley, Enoch, Willimansett, assignor to Holyoke Truck Company, Holyoke, Mass. Truck. No. 1,325,222; Dec. 16; v. 269; p. 483.
- Whalley, Roy F., San Jose, Cal. Key-removing device. No. 1,294,582; Feb. 18; v. 259; p. 441.
- Wharton, Frank, Elyria, Ohio. Shoe-heel. No. 1,300,070; Apr. 8; v. 261; p. 356.



- Wharton, Frank, Elyria, Ohio. Shoe-heel. No. 1,300,071; Apr. 8; v. 261; p. 356.
- Wharton, Frank, Elyria, Ohio. Shoe-heel. No. 1,300,072; Apr. 8; v. 261; p. 356.
- Whately, Alfred H., Providence, R. I. Micrometric gage. No. 1,317,746; Oct. 7; v. 267; p. 16.
- Whately, Alfred H., Providence, R. I. Micrometric gage. No. 1,317,747; Oct. 7; v. 267; p. 17.
- Whatmough, Wilfred A. (See Keith and Whatmough.)
- Wheary, George H., Racine, Wis. Automatic locking-means for trunks. No. 1,290,445; Jan. 7; v. 258; p. 104.
- Wheary, George H., Racine, Wis. Locking-rod for trunk-drawers. No. 1,292,550; Jan. 28; v. 258; p. 684.
- Wheary, George H., Racine, Wis. Drawer-guide. No. 1,304,133; May 20; v. 262; p. 373.
- Wheary, George H., Racine, Wis. Soiled-apparel receptacle. No. 1,310,974; July 22; v. 264; p. 642.
- Wheary, George H., Racine, Wis. Slidable trunk-holder. No. 1,310,975; July 22; v. 264; p. 643.
- Wheary, George H., Racine, Wis. Trunk-drawer construction. No. 1,312,714; Aug. 12; v. 265; p. 193.
- Wheary, George H., Racine, Wis. Trunk collar and track. No. 1,313,769; Aug. 19; v. 265; p. 412.
- Wheary, George H., Racine, Wis. Automobile wardrobe-trunk holder. No. 1,313,968; Aug. 26; v. 265; p. 484.
- Wheary, George H., Racine, Wis. Joint construction for trunks, boxes, and the like. No. 1,314,554; Sept. 2; v. 266; p. 15.
- Wheary, George H., Racine, Wis. Trunk laundry-bag. No. 1,314,555; Sept. 2; v. 266; p. 15.
- Wheary, George H., Racine, Wis. Convertible trunk. No. 1,314,556; Sept. 2; v. 266; p. 15.
- Wheary, George H., Racine, Wis. Clothes-retainer. No. 1,316,872; Sept. 23; v. 266; p. 514.
- Wheary, George H., Racine, Wis. Wardrobe-trunk. No. 1,317,188; Sept. 30; v. 266; p. 609.
- Wheary, George H., Racine, Wis. Trunk shoe-box. No. 1,322,274; Nov. 18; v. 268; p. 475.
- Wheat, Grant, Corry, Pa. Electric-lamp-lighting device. No. 1,321,960; Nov. 18; v. 268; p. 416.
- Wheat, Levi M., Woodville, Tex. Wheel-tread. No. 1,308,153; July 1; v. 264; p. 27.
- Wheaton, Abram W., Newark, N. J. Faucet-nozzle. No. 1,318,120; Oct. 7; v. 267; p. 87.
- Wheaton, Abram W., Newark, N. J. Self-closing valve. No. 1,322,076; Nov. 18; v. 268; p. 437.
- Wheaton, Charles A., Stockton, Cal. Watch-holder. No. 1,292,187; Jan. 21; v. 258; p. 577.
- Wheaton, Earle H., New Haven, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,302,460; Apr. 29; v. 261; p. 933.
- Wheawill, Charles H. (See Mott, Meyer, Halteman, and Wheawill.)
- Wheeler, Albert H., Worcester, Mass. Blank for forming hollow polyhedrons. No. 1,292,188; Jan. 21; v. 258; p. 577.
- Wheeler, Arthur D. (See Brown and Wheeler.)
- Wheeler Automatic Machine Co. (See Wheeler, Omar A., assignor.)
- Wheeler, Benjamin F. (See Meyer and Wheeler.)
- Wheeler, Clarence W., Chicago, Ill. Automatic elevator safety device. No. 1,310,224; July 15; v. 264; p. 474.
- Wheeler, Clifford C. (See Brown and Wheeler.)
- Wheeler Condenser and Engineering Company. (See Christie, Evi W., assignor.)
- Wheeler, Edward T., Akron, Ohio. Air-cooling system for auto-engine cylinders. No. 1,300,073; Apr. 8; v. 261; p. 356.
- Wheeler, Everett W. (See Logan, Oscar L., assignor.)
- Wheeler, Frank G., assignor to Bleach Process Company, Appleton, Wis. Indicating device for electrolytic cells. No. 1,312,494; Aug. 5; v. 265; p. 120.
- Wheeler, Frank G., assignor to Bleach Process Company, Appleton, Wis. Method of and apparatus for handling caldrons. No. 1,318,634; Oct. 14; v. 267; p. 247.
- Wheeler, Gardner E., assignor to The English & Mersick Company, New Haven, Conn. Manufacture of radiator-tubing. No. 1,320,430; Nov. 4; v. 268; p. 14.
- Wheeler, Harvey C. (See Rockwell, Walter F., assignor.)
- Wheeler, James A., Mangum, Okla. Header. No. 1,297,950; Mar. 18; v. 260; p. 536.
- Wheeler, Joel N., Geneva, Ill. Brace and bracket for ladders. No. 1,304,427; May 20; v. 262; p. 430.
- Wheeler, John H., Plymouth, Wis. Cheese-box. No. 1,312,772; Aug. 12; v. 265; p. 205.
- Wheeler, John L., St. Louis, Mo. Tire-protector. No. 1,301,207; Apr. 22; v. 261; p. 661.
- Wheeler, John L., St. Louis, Mo. Metallic thermometer. No. 1,325,547; Dec. 23; v. 269; p. 561.
- Wheeler, John M., Cadiz, Ohio. Railway-track construction. No. 1,296,348; Mar. 4; v. 260; p. 121.
- Wheeler, Lauren J., and H. R. Robbins, Salt Lake City, Utah. Process of and apparatus for the concentration of graphite ores. No. 1,318,003; Oct. 7; v. 267; p. 65.
- Wheeler, Mary, and E. M. Bates, Los Angeles, Cal. Hook and eye. No. 1,295,656; Feb. 25; v. 259; p. 712.
- Wheeler, Mary, and E. M. Bates, Los Angeles, Cal. Heating device. No. 1,297,281; Mar. 11; v. 260; p. 365.
- Wheeler, Newberry W., East Cleveland, Ohio. Means employed in key systems for title examiners. No. 1,313,617; Aug. 19; v. 265; p. 384.
- Wheeler, Norburt J., La Fayette, Ind. Pipe-hanger. No. 1,315,890; Sept. 9; v. 266; p. 268.
- Wheeler, Omar A., Portland, Oreg., assignor to Wheeler Automatic Machine Co. Method and machine for making cuffs automatically. No. 1,305,510; June 3; v. 263; p. 53.
- Wheeler, Ralph W., Brooklyn, N. Y. Wire-wheel brush. No. 1,326,815; Dec. 30; v. 269; p. 835.
- Wheeler, Robert, Wellsburg, W. Va. Course-indicator. No. 1,316,821; Sept. 23; v. 266; p. 505.
- Wheeler, Roy S. (See Comstock, Frederick E., assignor.)
- Wheeler, Walter O., Worcester, Mass. Automatic ten-plus-setter. No. 1,297,951; Mar. 18; v. 260; p. 536.
- Wheeling Stove & Range Company. (See Reppetto, Harvey B., assignor.)
- Wheeling Tile Company. (See Amos, Frank, assignor.)
- Wheelock, Herbert K., Long Beach, Calif. Spraying and burning apparatus. No. 1,312,934; Aug. 12; v. 265; p. 237.
- Wheelock, Herbert K., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill. Vulcanizer. No. 1,321,961; Nov. 18; v. 268; p. 417.
- Wheelock, John H., Worcester, Mass., assignor to Klaxon Company, Newark, N. J. Sound-producer. No. 1,312,373; Aug. 5; v. 265; p. 97.
- Wheelock, L. M. (See Junkers, Hugo, assignor.)
- Wheldon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Package. No. 1,303,137; May 6; v. 262; p. 126.
- Whelan, Leo H., Youngstown, Ohio. Timer for engines. No. 1,306,791; June 17; v. 263; p. 356.
- Whelan, Patrick J., Douglas, Ontario, Canada. Button. No. 1,320,592; Nov. 4; v. 268; p. 44.
- Whelan, William, St. Joseph, Mo. Electrical water-heater. No. 1,319,315; Oct. 21; v. 267; p. 402.
- Wheless, Thomas H., Newark, N. J. Internal-combustion-engine turbine. No. 1,300,903; Apr. 15; v. 261; p. 561.
- Wheless-Wilson Auto Supply Company. (See Shields, Ferdinand W., assignor.)
- Wheller, Harry S. (See Fieux and Wheller.)
- Whelpley, Charles W. (See Coleman, Stephen L. C., assignor.)
- Wherry, John A., New Orleans, La. Fishing-reel. No. 1,303,525; May 13; v. 262; p. 224.
- Wherry, John A., New Orleans, La. Collating device for type-writers. No. 1,320,593; Nov. 4; v. 268; p. 44.
- Wherry, John A., New Orleans, La. Collating device for type-writers and adding-machines. No. 1,324,632; Dec. 9; v. 269; p. 312.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Sheet-holder for type-writing machines. No. 1,299,525; Apr. 8; v. 261; p. 235.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,300,904; Apr. 15; v. 261; p. 561.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,300,905; Apr. 15; v. 261; p. 561.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Type-writer. No. 1,307,648; June 24; v. 263; p. 545.
- Wherry, Robert D., Neches, Tex. Motor-actuated locking device for automobiles. No. 1,322,171; Nov. 18; v. 268; p. 455.
- Whigam, Alexander H., Peoria, and A. E. Eden, assignors of one-third to P. Bland, Sullivan, Ill. Steering-wheel attachment. No. 1,314,995; Sept. 2; v. 266; p. 96.
- Whilt, Joseph H., Hoquiam, Wash. Undercutter-support. No. 1,316,127; Sept. 16; v. 266; p. 325.
- Whimster, Peter, Winnipeg, Manitoba, Canada. Bracket. No. 1,317,903; Oct. 7; v. 267; p. 46.
- Whipple, Leland B., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last-lathe. No. 1,293,276; Feb. 4; v. 259; p. 70.
- Whipple, Ralph, Detroit, Mich. Automatic steering and control mechanism for tractors. No. 1,296,027; Mar. 4; v. 260; p. 48.
- Whipple, Ralph, Detroit, Mich. Tractor. No. 1,326,314; Dec. 30; v. 269; p. 740.
- Whipps, Solomon S., Minneapolis, Minn. Propeller. No. 1,319,634; Oct. 21; v. 267; p. 463.
- Whisler, Isma S. (See Whisler, Joseph C. and I. S.)
- Whisler, Joseph C. and I. S., Peru, Ind. Universal joint. No. 1,294,583; Feb. 18; v. 259; p. 441.
- Whist, Axel, Hagedal, Norway. Material composed of skin and paper. No. 1,300,535; Apr. 15; v. 261; p. 483.
- Whistler, David B., assignor to The American Railways Equipment Company, Dayton, Ohio. Combination fare-box recorder. No. 1,291,317; Jan. 14; v. 258; p. 334.
- Whistler, George F. (See Bolger, Robert S., assignor.)
- Whitacre, Corwin C., assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio. Building-brick. No. 1,323,512; Dec. 2; v. 269; p. 55.
- Whitacre-Greer Fireproofing Company, The. (See Whitacre, Corwin C., assignor.)
- Whitacre-Greer Fireproofing Company, The. (See Whitacre, John J., assignor.)



## Alphabetical list of patentees—Continued.

- Whitaker, John J., Canton, assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio. Building-brick. No. 1,323,513; Dec. 2; v. 269; p. 55.
- Whitacre, John J., Canton, assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio. Building-brick. No. 1,323,514; Dec. 2; v. 269; p. 55.
- Whitacre, Lewis F., Batavia, N. Y. Folding seat for side cars. No. 1,325,130; Dec. 16; v. 269; p. 466.
- Whitaker, Douglas, Leicester, England. Shield tunneling-machine. No. 1,311,142; July 22; v. 264; p. 674.
- Whitaker, Douglas, Leicester, England. Shield tunneling-machine. No. 1,311,143; July 22; v. 264; p. 674.
- Whitaker, Edward W., assignor to Davenport Machine & Foundry Company, Davenport, Iowa. Clamping means for molding-machines. No. 1,316,259; Sept. 16; v. 266; p. 351.
- Whitaker, James S., San Francisco, Calif. Life-boat. No. 1,300,906; Apr. 15; v. 261; p. 562.
- Whitaker, John, North Wales, assignor to Safe-Guard Check Writer Company, Inc., Lansdale, Pa. Check. No. 1,303,434; May 13; v. 262; p. 207.
- Whitaker, John H., Dennisville, N. J. Foldable ironing-board stand. No. 1,310,490; July 22; v. 264; p. 553.
- Whitaker, John H., Dennisville, N. J. Pump. No. 1,314,448; Aug. 26; v. 265; p. 576.
- Whitaker, Jonas A., Matanuska, Alaska. Can opener and closure. No. 1,319,981; Oct. 28; v. 267; p. 551.
- Whitaker, Lester C., Santa Rosa, Calif. Time-switch for electric circuits. No. 1,313,440; Aug. 19; v. 265; p. 350.
- Whitaker, Nathan J., Gloversville, N. Y. Wheel-shoe. No. 1,318,635; Oct. 14; v. 267; p. 247.
- Whitaker, Norman T., *et al.* (See Baumann, Frederick, assignor.)
- Whitaker, Norman T., *et al.* (See Baumann, Leopold, Sr., and F., assignors.)
- Whitaker, Norman T., *et al.* (See Clardy, George D., assignor.)
- Whitaker, Richard, Jr., assignor to Manufacturers Iron & Steel Company, New Brunswick, N. J. Horseshoe-calk. No. 1,301,345; Apr. 22; v. 261; p. 690.
- Whitbeck, John V., assignor to Chandler Motor Car Company, Cleveland, Ohio. Mounting for control-buttons. No. 1,299,644; Apr. 8; v. 261; p. 262.
- Whitbeck, John V., assignor to Chandler Motor Car Company, Cleveland, Ohio. Tire-carrier. No. 1,309,268; July 8; v. 264; p. 261.
- Whitbeck, Neal W. (See Le Roy and Whitbeck.)
- Whitcher, Richard P. (See Coggin and Whitcher.)
- Whitcomb, E. B. (See Steele, Charles B., assignor.) (Reissue.)
- Whitcomb, James, Golden, Colo., assignor of one-fourth to C. E. Byers, Hastings, Nebr., one-half to R. S. Buchtel, and one-fourth to B. F. Heffner. Starting attachment for engines. No. 1,298,843; Apr. 1; v. 261; p. 53.
- White, Adelaide W. (See Holden and Clark, assignors.)
- White, Adelaide W., Syracuse, N. Y. Belt-buckle. No. 1,319,547; Oct. 21; v. 267; p. 447.
- White, Alexander W. (See Verrette and White.)
- White, Alvah C., *et al.* (See Wilcox, Lealand C., assignor.)
- White, Ambrose H., Brooklyn, N. Y., assignor to International Paper Company. Barking-drum. No. 1,300,536; Apr. 15; v. 261; p. 483.
- White, Ambrose H., New York, N. Y., assignor to International Paper Company. Barking-drum. No. 1,300,795; Apr. 15; v. 261; p. 538.
- White, Archibald, Dunbar, Pa. Pipe-wrench. No. 1,312,290; Aug. 5; v. 265; p. 81.
- White, Arthur, Sheboygan Falls, Wis. Chair-iron. No. 1,305,042; May 27; v. 262; p. 585.
- White, Arthur, Sheboygan Falls, Wis. Furniture-joint. No. 1,306,452; June 10; v. 263; p. 261.
- White, Bert A., Detroit, Mich. Trolley-wire hanger. No. 1,313,656; Aug. 19; v. 265; p. 391.
- White, Birdora H., Chicago, Ill. Buckle. No. 1,306,091; June 10; v. 263; p. 192.
- White, Bishop, *et al.* (See Crane, Thomas S., assignor.)
- White, Bishop, West Hartford, assignor to American Chain Company, Incorporated, Bridgeport, Conn. Unit non-skid chain device. No. 1,297,620; Mar. 18; v. 260; p. 465.
- White, Bruce C. (See Turck and White.)
- White, Bruce C., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism for printing-machines. No. 1,311,198; July 29; v. 264; p. 717.
- White, Charles D., Norwich, Conn. Spinning-frame. No. 1,318,422; Oct. 14; v. 267; p. 207.
- White, Charles E., Moline, Ill., assignor to Deere & Mansur Company. Alfalfa-cultivator. No. 1,290,446; Jan. 7; v. 258; p. 104.
- White, Charles E., assignor to Deere & Company, Moline, Ill. Disk harrow. No. 1,297,302; Mar. 11; v. 260; p. 370.
- White, Charles E., assignor to Deere & Company, Moline, Ill. Cultivator for beets and similar plants. No. 1,324,187; Dec. 9; v. 269; p. 226.
- White, Charles H., and G. Vezina, Toronto, Ontario, Canada, assignors to The Gendron Manufacturing Company, Limited, Toronto, Ontario, Canada. Velocipede. No. 1,301,990; Apr. 29; v. 261; p. 843.
- White, Charles T., Santa Barbara, assignor of one-third to G. B. White, Santa Cruz county, and one-third to W. E. Mouck, Santa Barbara county, Calif. Vulcanizing-tool. No. 1,298,612; Mar. 25; v. 260; p. 702.
- White, Cyril H., Coventry, England. Recovery of brass from foundry-ash and the like. No. 1,309,165; July 8; v. 264; p. 242.
- White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,308,465; July 1; v. 264; p. 82.
- White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,316,527; Sept. 16; v. 266; p. 402.
- White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,324,865; Dec. 16; v. 269; p. 417.
- White, D'Orsay M., and L. K. Snell, assignors to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,321,172; Nov. 11; v. 268; p. 217.
- White, David G., New York, N. Y. Last-line indicator for type-writers. No. 1,322,381; Nov. 18; v. 268; p. 496.
- White, David J., and D. H. Hanna, Oil City, Pa. Continuous frog for railways. No. 1,313,441; Aug. 19; v. 265; p. 350.
- White, Delbert M., *et al.* (See Bauman, Frank J., assignor.)
- White, Edward H., *et al.* (See Ryan, Edward A., assignor.)
- White, Edward H., Cumberland, Md., assignor of one-third to W. W. Farnsworth, Littleton, Colo., and one-third to E. A. Ryan, Kansas City, Mo. Chain and other antiskidding applying device. No. 1,295,657; Feb. 25; v. 259; p. 713.
- White, Edward N., assignor of one-half to W. H. Ramsay, Guantanamo, Cuba. Photographic-printing frame. No. 1,319,442; Oct. 21; v. 267; p. 427.
- White, Erby B., Belen, N. Mex. Pump. No. 1,321,346; Nov. 11; v. 268; p. 250.
- White, Everett H., St. Paul, Minn. Damper-operating motor. No. 1,299,526; Apr. 8; v. 261; p. 235.
- White, Field, and J. B. Bardo, Detroit, Mich. Control mechanism. No. 1,309,926; July 15; v. 264; p. 420.
- White, Frank, St. Louis, Mo. Razor. No. 1,291,318; Jan. 14; v. 258; p. 334.
- White, Frank E., New Haven, Conn. Cigarette-maker and tobacco-container. No. 1,300,311; Apr. 15; v. 261; p. 435.
- White, Frank I., Johnstown, Pa. Rolling-mill guide. No. 1,325,343; Dec. 16; v. 269; p. 506.
- White, Frank S., Dos Cabezas, Ariz. Rotary valve for internal-combustion engines. No. 1,304,839; May 27; v. 262; p. 547.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,324,085; Dec. 9; v. 269; p. 207.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,324,086; Dec. 9; v. 269; p. 207.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,324,087; Dec. 9; v. 269; p. 207.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,324,088; Dec. 9; v. 269; p. 207.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,324,089; Dec. 9; v. 269; p. 207.
- White, Fred E., and F. E. Hooper, assignors to Central Oil & Gas Stove Company, Gardner, Mass. Oil-stove. No. 1,290,856; Jan. 7; v. 258; p. 201.
- White, Fred G., Kansas City, Mo., assignor, by mesne assignments, to The Electric Clipper Company, Fredonia, Kans. Hair-clipper. No. 1,311,935; Aug. 5; v. 265; p. 16.
- White, French R., Independence, Mo. Deposit-book. No. 1,309,869; July 15; v. 264; p. 409.
- White, Floyd G. (See Brown, Walter A., assignor.)
- White Flushing Valve Mfg. Co., The. (See White, William S., assignor.)
- White Frost Refrigerator Company. (See Boeck, Charles H., assignor.)
- White, George E., *et al.* (See White, Charles T., assignor.)
- White, George E., Mishawaka, Ind. Vehicle direction-signal. No. 1,319,548; Oct. 21; v. 267; p. 447.
- White, Gilbert E., Kewanee, Ill. Air-blast plastering-machine. No. 1,305,574; June 3; v. 263; p. 65.
- White, Gustine S., Scranton, Pa. Index. No. 1,299,887; Apr. 8; v. 261; p. 317.
- White, Gustine S., Scranton, Pa. Record-book. No. 1,322,275; Nov. 18; v. 268; p. 475.
- White, Harold C., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-truck mechanism. No. 1,304,428; May 20; v. 262; p. 430.
- White, Harold E., Putney, London, England, assignor to The Aeolian Company, New York, N. Y. Tone-modifier. No. 1,304,005; May 20; v. 262; p. 350.
- White, Henry P., assignor to New Era Mfg. Co., Inc., Kalamazoo, Mich. Rod and shaft packing. No. 1,326,242; Dec. 30; v. 269; p. 727.
- White, Herbert E., Youngstown, Ohio. Coating process for building material. No. 1,302,260; Apr. 29; v. 261; p. 893.



- White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Expanded-metal product. No. 1,314,777; Sept. 2; v. 266; p. 56.
- White, Howard L., Brooklyn, N. Y. Rifling-tool. No. 1,304,429; May 20; v. 262; p. 431.
- White, J. Wesley, Lewistown, Mont. Portable bag-holder. No. 1,293,277; Feb. 4; v. 259; p. 70.
- White, James K., Salina, Kans. Grain-separator. No. 1,306,239; June 10; v. 263; p. 222.
- White, Jasper N., et al. (See Baker, James S., assignor.)
- White, Jerry M., Boston, Mass. Automobile-signal. No. 1,313,770; Aug. 19; v. 265; p. 412.
- White, John F., Karnes City, Tex. Hay-press. No. 1,296,889; Mar. 11; v. 260; p. 278.
- White, John F., London, Ontario, Canada. Valve. No. 1,311,364; July 29; v. 264; p. 748.
- White, John F., Detroit, Mich. Water-repellent material and producing the same. No. 1,320,353; Oct. 28; v. 267; p. 620.
- White, John F., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Hood-fastener. No. 1,300,796; Apr. 15; v. 261; p. 538.
- White, John F., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Hood-latch. No. 1,300,797; Apr. 15; v. 261; p. 538.
- White, John M., Meridian, Miss. Arsenical medical product and producing same. No. 1,297,952; Mar. 18; v. 260; p. 537.
- White, John M., Meridian, Miss. Antisyphilitic arsenical preparation and making the same. No. 1,313,657; Aug. 19; v. 265; p. 391.
- White, John P. F. (See Lynch and White.)
- White, John W., Brooklyn, N. Y. Signaling device. No. 1,305,956; June 3; v. 263; p. 138.
- White, Joseph F., deceased, Brookline, Mass.; M. F. White, administratrix. Child's vehicle. No. 1,297,282; Mar. 11; v. 260; p. 365.
- White, Joseph M., St. Johnsbury, Vt. Egg-case. No. 1,324,708; Dec. 9; v. 269; p. 326.
- White, Joseph R., assignor to The Graphoscope Company, Washington, D. C. Picture-projecting apparatus. No. 1,312,374; Aug. 5; v. 265; p. 97.
- White, Louis A., Brooklyn, N. Y. Controller. No. 1,311,784; July 29; v. 264; p. 826.
- White, Mark B., Hanover, Ill. Winding-machine. No. 1,290,447; Jan. 7; v. 258; p. 104.
- White, Mary F., administratrix. (See White, Joseph F.)
- White, Morris C., Los Angeles, Calif. Aquatic device. No. 1,315,267; Sept. 9; v. 266; p. 155.
- White, Morris C., assignor to M. C. White Company, Los Angeles, Calif. Compressor and motor-starter. No. 1,323,939; Dec. 2; v. 269; p. 135.
- White Motor Company, The. (See Farmer, Frank H., assignor.)
- White, Noah R., Delta, Colo. Signal. No. 1,295,402; Feb. 25; v. 259; p. 653.
- White, Otis, and R. C. Lanphier, assignors to Sangamo Electric Company, Springfield, Ill. Graphic recording instrument. No. 1,316,657; Sept. 23; v. 266; p. 475.
- White, Otis, and J. Kremer, assignors to Sangamo Electric Company, Springfield, Ill. Graphic recording instrument. No. 1,316,658; Sept. 23; v. 266; p. 475.
- White Products Company. (See Anderson, Carl E., assignor.)
- White Products Company. (See White, John F., assignor.)
- White, Ralph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Riveted joint. No. 1,299,275; Apr. 1; v. 261; p. 150.
- White, Richard E., Houston Heights, Tex. Stove. No. 1,297,621; Mar. 18; v. 260; p. 465.
- White, Richard P., Chicago, Ill. Fastening device. No. 1,298,128; Mar. 25; v. 260; p. 599.
- White, Richard P., Chicago, Ill. Bail-car for vessels. (Reissue). No. 14,703; Aug. 5; v. 265; p. 123.
- White, Richard P., Chicago, Ill. Tank-car. No. 1,313,361; Aug. 19; v. 265; p. 335.
- White, Robert N., Jr., Greenville, Tex. Attachment for cash-registers. No. 1,306,240; June 10; v. 263; p. 222.
- White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Cleveland, Ohio. Track-belt for track-laying tractors. No. 1,314,722; Sept. 2; v. 266; p. 47.
- White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. No. 1,326,702; Dec. 30; v. 269; p. 813.
- White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. No. 1,326,703; Dec. 30; v. 269; p. 813.
- White, Rollin H., Shaker Heights, assignor to The Cleveland Tractor Company, Cleveland, Ohio. Agricultural machine. No. 1,316,990; Sept. 23; v. 266; p. 536.
- White, Samuel T., Davenport, Iowa. Mechanical movement. No. 1,300,312; Apr. 15; v. 261; p. 436.
- White, Thomas, Talmage, Ky. Coupling. No. 1,307,227; June 17; v. 263; p. 455.
- White, Thomas H., South Chicago, Ill. Journal-box. No. 1,310,642; July 22; v. 264; p. 582.
- White, Victor, Evanston, Ill. Automatic control mechanism. No. 1,292,189; Jan. 21; v. 258; p. 577.
- White Wagon Works. (See Rietz, William, assignor.)
- White, Walter C., Pittsburgh, Pa. Train-pipe coupling. No. 1,321,689; Nov. 11; v. 268; p. 315.
- White, Warren B. (See Chamberlain, George A., assignor.)
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. No. 1,298,613; Mar. 25; v. 260; p. 703.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Wireless signaling system. No. 1,310,041; July 15; v. 264; p. 440.
- White, William D., El Paso, Tex. Collar-form. No. 1,311,105; July 22; v. 264; p. 667.
- White, William E., Springfield, Mass. Means for spacing reinforcing-bars. No. 1,306,984; June 17; v. 263; p. 392.
- White, William L., Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter attachment. No. 1,291,319; Jan. 14; v. 258; p. 335.
- White, William L., Birmingham, Ala., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter. No. 1,312,883; Aug. 12; v. 265; p. 226.
- White, William R., and A. B. Acrea, Fleet, Alberta, Canada. Combined seeding and cultivating attachment for plows. No. 1,305,850; June 3; v. 263; p. 117.
- White, William S., assignor to The White Flushing Valve Mfg. Co., Denver, Colo. Flushing-valve. No. 1,311,365; July 29; v. 264; p. 749.
- White, William T., Philadelphia, Pa. Train-controlling mechanism. No. 1,305,851; June 3; v. 263; p. 117.
- Whitcotton, Wendell M. (See Gepp, Avery, Stevens, and Whitcotton.)
- Whitehall, Frank E., et al. (See Snell, Harry B., assignor.)
- Whitehead, Gale. (See Harry, Elmer H., assignor.)
- Whitehead, Howard R. (See Gove, Henry H., assignor.)
- Whitehead Torpedo Works, (Weymouth) Limited, The. (See Lees and Ridsdale, assignors.)
- Whitehouse, Jennie E., executrix. (See Welt and Whitehouse.)
- Whitehouse, John N., assignor to Wm. Demuth & Co., New York, N. Y. Tobacco-pipe. No. 1,308,612; July 1; v. 264; p. 110.
- Whitehouse, William A. (See Welt and Whitehouse.)
- Whitehurst, John L. (See Bell, Thomas S., assignor.)
- Whitehurst, John L., and C. H. Wild, assignors, by mesne assignments, to J. T. Whitehurst, Baltimore, Md. Labeling-machine. No. 1,323,940; Dec. 2; v. 269; p. 135.
- Whitehurst, John T. (See Whitehurst and Wild, assignors.)
- Whitelaw, John F. (See Anderson, Clarke, and White-law.)
- Whiteley, George H., Jr., York, Pa., assignor to The Dentists' Supply Company. Means for molding artificial teeth. No. 1,290,448; Jan. 7; v. 258; p. 105.
- Whiteman, Charles E. (See Penney, Whiteman, and Russ.)
- Whiteman, Owen L., Cossackie, N. Y. Gate-valve. No. 1,304,228; May 20; v. 262; p. 391.
- Whiteman, Owen L., Cossackie, N. Y. Gate-valve disk. No. 1,323,941; Dec. 2; v. 269; p. 135.
- Whitesel, Frederick. (See Whitesel, Newton and F.)
- Whitesel, Newton and F., Omaha, Nebr. Stretcher. No. 1,304,006; May 20; v. 262; p. 350.
- Whiteside, William A. (See Schwartz and Whiteside, assignors.)
- Whitfield, Baldwin G., Chicago, Ill. Cigarette-package. No. 1,294,584; Feb. 18; v. 259; p. 441.
- Whitford, Wilbur W., New York, N. Y. Pipe construction. No. 1,302,744; May 6; v. 262; p. 49.
- Whitin, George M., assignor to The Whitin Machine Works, Whitinsville, Mass. Carding-machine. No. 1,302,109; Apr. 29; v. 261; p. 865.
- Whitin Machine Works. (See Crockett, Frank L., assignor.)
- Whitin Machine Works. (See Glashower, John P., assignor.)
- Whitin Machine Works. (See Horner, Leon H., assignor.)
- Whitin Machine Works. (See Lamb, Chester C., assignor.)
- Whitin Machine Works. (See O'Malley, Michael T., assignor.)
- Whitin Machine Works. (See Owen, Oscar L., assignor.)
- Whitin Machine Works, The. (See Whitin, George M., assignor.)
- Whiting, Alonzo A. (See Whiting, Ruy D. and A. A.)
- Whiting, Bradford H., Chicago, assignor to Whiting Foundry Equipment Company, Harvey, Ill. Casing for locomotive-screws. No. 1,314,557; Sept. 2; v. 266; p. 16.
- Whiting, Bradford H., Chicago, and J. S. Townsend, assignors to Whiting Foundry Equipment Company, Harvey, Ill. Ladle-turning mechanism. No. 1,323,137; Nov. 25; v. 268; p. 689.
- Whiting & Davis Company. (See Berkley, Richard H., assignor.)
- Whiting & Davis Company. (See Berkley, Richard H., assignor.)
- Whiting & Davis Company. (See Pratt, Alphonso C., assignor.)
- Whiting Foundry Equipment Company. (See McDougall, Andrew H., assignor.)
- Whiting Foundry Equipment Company. (See Whiting, Bradford H., assignor.)



## Alphabetical list of patentees—Continued.

- Whiting Foundry Equipment Company. (See Whiting and Townsend, assignors.)
- Whiting, Horatio, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,308,133; July 1; v. 264; p. 23.
- Whiting, Max A., Schenectady, N. Y., assignor to General Electric Company. System of transmission. No. 1,297,953; Mar. 18; v. 260; p. 537.
- Whiting, Max A., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. No. 1,300,074; Apr. 8; v. 261; p. 357.
- Whiting-Patterson Company. (See Ball, George, assignor.)
- Whiting, Ruy D. and A. A., Chicago, Ill. Pouring-stopper for liquid-containers. No. 1,314,176; Aug. 26; v. 265; p. 523.
- Whiting, Theo C., Philadelphia, Pa. Governor mechanism. No. 1,310,170; July 15; v. 264; p. 464.
- Whitkanack, Firdie, West Union, Ill. Rope-clamp. No. 1,298,614; Mar. 25; v. 260; p. 703.
- Whitley, Edward O., and E. L. Knowlton, Williamstown, V. Va. Glass-blower. No. 1,309,166; July 8; v. 264; p. 242.
- Whitley, Elbert W., Atlanta, Ga. Automatic switch. No. 1,316,212; Sept. 16; v. 266; p. 342.
- Whitlock, Horace E., Columbus, Ohio. Supporting-block for cameras. No. 1,325,886; Dec. 23; v. 269; p. 624.
- Whitlock, Ralph G., Los Angeles, Cal. Loose-leaf book. No. 1,291,320; Jan. 14; v. 258; p. 335.
- Whitlock, Ralph G., Los Angeles, Calif. Loose-leaf book. No. 1,299,276; Apr. 1; v. 261; p. 150.
- Whitlock, Ralph G., Los Angeles, Calif. Loose-leaf book. No. 1,300,206; Apr. 8; v. 261; p. 387.
- Whitman, F. William. (See Smith, Alexander N., assignor.)
- Whitman, Herbert G. (See Whitman, John C., assignor.)
- Whitman, James R., *et al.* (See Buttrick, James A., assignor.)
- Whitman, John C., Sugar Creek township, Venango county, assignor of one-half to H. G. Whitman, Franklin, Pa. Filtration of petroleum-oil. No. 1,312,375; Aug. 5; v. 265; p. 97.
- Whitmore, Chester L., Omaha, Nebr. Box-front. No. 1,299,645; Apr. 8; v. 261; p. 262.
- Whitmore, Edward E., assignor to The Curtain Supply Company, Chicago, Ill. Diaphragm-buffing mechanism. (Reissue.) No. 14,706; Aug. 12; v. 265; p. 298.
- Whitmore, George C., assignor of one-half to U. A. Towle, Portland, Me. Brake-band. No. 1,311,936; Aug. 5; v. 265; p. 16.
- Whitmore, John P., *et al.* (See Girard, Louis B., assignor.)
- Whitmore, John P., South Pasadena, Calif. Window-shade material. No. 1,322,855; Nov. 25; v. 268; p. 636.
- Whitney, Francis A., Kabugao Apayao, Philippine Islands. Spout for sealed containers. No. 1,296,447; Mar. 4; v. 260; p. 141.
- Whitney, George E., Bridgeport, Conn., assignor to United States Compressing Corporation, New York, N. Y. Press. No. 1,302,745; May 6; v. 262; p. 50.
- Whitney, George E., Bridgeport, assignor to International Pavement Company, Hartford, Conn. Press. No. 1,317,115; Sept. 23; v. 266; p. 560.
- Whitney, George E., Bridgeport, assignor to International Pavement Company, Hartford, Conn. Press. No. 1,317,116; Sept. 23; v. 266; p. 560.
- Whitney, George E., Bridgeport, assignor to International Pavement Company, Hartford, Conn. Press. No. 1,317,117; Sept. 23; v. 266; p. 560.
- Whitney, George E., Bridgeport, assignor to The International Pavement Company, Hartford, Conn. Press. No. 1,317,118; Sept. 23; v. 266; p. 560.
- Whitney, George E., Bridgeport, assignor to The International Pavement Company, Hartford, Conn. Press. No. 1,317,119; Sept. 23; v. 266; p. 561.
- Whitney, George F., South Orange, N. J., assignor to Whitney Yeast Corporation, New York, N. Y. Dry yeast and making same. No. 1,306,569; June 10; v. 263; p. 282.
- Whitney, George M., *et al.* (See King, Joseph, assignor.)
- Whitney, George O., and A. W. Ide, Brainerd, Minn. Steam stool-sterilizer. No. 1,325,429; Dec. 16; v. 269; p. 521.
- Whitney, Loren L. (See Peycke and Whitney.)
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, New York, N. Y. Manufacturing brake-beams. No. 1,303,435; May 13; v. 262; p. 208.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Forged-brake-hanger arrangement. No. 1,318,121; Oct. 7; v. 267; p. 87.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, New York, N. Y. Forging fulcrums. No. 1,323,341; Dec. 2; v. 269; p. 22.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Adjustable brake-head. No. 1,323,342; Dec. 2; v. 269; p. 23.
- Whitney, William M. (See Emery, Raymond D., assignor.)
- Whitney, William M. (See Farnum, William C., assignor.)
- Whitney, William M. (See Folsom, Arthur E., assignor.)
- Whitney, William M. (See McQueston, Frank S., assignor.)
- Whitney, William M. (See Sawyer, Willard N., assignor.)
- Whitney, William M., Winchendon, Mass. Rotary cutter. No. 1,308,313; July 1; v. 264; p. 56.
- Whitney Yeast Corporation. (See Whitney, George F., assignor.)
- Whitright, Lee. (See Shulenberger and Whitright.)
- Whitt, Robert F., Beckley, W. Va. Photographic-film-developing tank. No. 1,305,043; May 27; v. 262; p. 585.
- Whittaker, Arthur, San Diego, Calif. Spraying apparatus. No. 1,297,622; Mar. 18; v. 260; p. 466.
- Whittaker, Charles C., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,303,436; May 13; v. 262; p. 208.
- Whittaker, Charles C., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,305,044; May 27; v. 262; p. 585.
- Whittaker, Charles C., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,326,315; Dec. 30; v. 269; p. 740.
- Whittaker, Marvin H. (See Brien and Whittaker.)
- Whittmore, Frederick M., New York, N. Y. Interchangeable-letter sign. No. 1,296,246; Mar. 4; v. 260; p. 98.
- Whittmore, James, Detroit, Mich., assignor to The Owens Bottle Machine Company, Toledo, Ohio. Flowing molten glass. No. 1,310,225; July 15; v. 264; p. 474.
- Whitten, John S., Conway, Ark. Valve. No. 1,307,287; June 17; v. 263; p. 447.
- Whittier, Walter H., and F. J. M. Curran, assignors to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Shelf-support for refrigerators. No. 1,291,321; Jan. 14; v. 258; p. 335.
- Whittingham, George H., Bancroft Park, assignor to Monitor Controller Company, Baltimore, Md. Multi-value overload-switch. No. 1,310,380; July 15; v. 264; p. 502.
- Whittingham, George H., Bancroft Park, and W. T. Holmes, assignors to Monitor Controller Company, Baltimore, Md. Protective device for electric circuits. No. 1,294,213; Feb. 11; v. 259; p. 320.
- Whittington, Clifton L., Eldora, Iowa. Obstetrical forceps. No. 1,322,382; Nov. 18; v. 268; p. 496.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Tuning device for signal-diaphragms. No. 1,298,428; Mar. 25; v. 260; p. 663.
- Whittington, John A., Atlanta, Ga. Printing device. No. 1,292,190; Jan. 21; v. 258; p. 577.
- Whittlesey, Charles F. (See Hagan, Calvin H., assignor.)
- Whitton, Orvil C. (See Lawrence and Whitton.)
- Whittredge, Lucius H., Lynn, Mass. Metallic building structure. No. 1,296,028; Mar. 4; v. 260; p. 48.
- Whittredge, Lucius H., Lynn, Mass. Metallic building structure. No. 1,298,129; Mar. 25; v. 260; p. 599.
- Whitworth, Bevil W., assignor to T. A. Whitworth, Cedar Falls, Iowa. Assembling-table for end-gates. No. 1,303,437; May 13; v. 262; p. 208.
- Whitworth, Bevil W., assignor of one-third to T. A. Whitworth and one-third to C. S. Whitworth, Cedar Falls, Iowa. Grain-door. No. 1,319,368; Oct. 21; v. 267; p. 412.
- Whitworth, Bevil W., assignor to T. A. Whitworth, Cedar Falls, Iowa. End-gate. No. 1,323,343; Dec. 2; v. 269; p. 23.
- Whitworth, Charles S., *et al.* (See Whitworth, Bevil W., assignor.)
- Whitworth, Thomas A. (See Whitworth, Bevil W., assignor.)
- Whyte, Frederick M., Tarrytown, N. Y., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,300,075; Apr. 8; v. 261; p. 357.
- Whyte, Frederick M., Tarrytown, N. Y., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,300,076; Apr. 8; v. 261; p. 357.
- Whyte, Frederick M., Tarrytown, N. Y., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,300,077; Apr. 8; v. 261; p. 357.
- Whyte, Samuel, Redhill, England. Resharpener files. No. 1,314,449; Aug. 26; v. 265; p. 576.
- Whyte, Samuel, Redhill, England. Resharpener files. No. 1,314,450; Aug. 26; v. 265; p. 576.
- Wiard, John B., Lynn, Mass., assignor to General Electric Company. High-speed grinding-machine. No. 1,304,229; May 20; v. 262; p. 391.
- Wiberg, Charles A., Duluth, Minn. Shock-absorber. No. 1,319,938; Oct. 28; v. 267; p. 543.
- Wiberg, Charles A., assignor of one-fifth to O. W. Challstrom, Duluth, Minn. Shock-absorber. No. 1,319,937; Oct. 28; v. 267; p. 543.
- Wiberg, Oskar A., Finspong, assignor, by mesne assignments, to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Elastic-fluid turbine. No. 1,291,322; Jan. 14; v. 258; p. 336.
- Wiberg, Oscar A., and S. M. Bäckström, Finspong, assignors, by mesne assignments, to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Fluid-pressure turbine. No. 1,318,307; Oct. 7; v. 267; p. 124.



- Wible, Milo B., Arcata, Cal. Device for nailing tins on binders. No. 1,296,146; Mar. 4; v. 260; p. 76.
- Wichert & Gardiner. (See Van Ness, John L., assignor.)
- Wichertjes, Arend, Chicago, Ill. Level. No. 1,298,844; Apr. 1; v. 261; p. 53.
- Wicker, Claude W., Memphis, Tenn. Cotton-lint condenser and drier. No. 1,312,291; Aug. 5; v. 265; p. 81.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Cal. Roller-truck frame for traction-engines. No. 1,296,579; Mar. 4; v. 260; p. 171.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. End-thrust roller-bearing. No. 1,304,430; May 20; v. 262; p. 431.
- Wickert, Louis N., Fort Wayne, Ind. Safety attachment for car-trucks. No. 1,291,323; Jan. 14; v. 258; p. 336.
- Wickes, Roscoe L. (See Fletcher and Wickes.)
- Wickham, Charles E., Oakland, Calif. Automobile-signal. No. 1,299,080; Apr. 1; v. 261; p. 106.
- Wickham, Walter M., Chicago, Ill. Road grading and excavating machine. No. 1,308,383; July 1; v. 264; p. 68.
- Wickman, Axel C., Brighton, England. Springing of motor road-vehicles. No. 1,307,605; June 24; v. 263; p. 538.
- Wickman, Magnus H., assignor to one-fourth to C. H. Crawford, Spokane, Wash. Child's car. No. 1,303,127; May 6; v. 262; p. 124.
- Wicks, Arthur H., Woodstock, Ill. Plater's-tank-sediment remover. No. 1,322,383; Nov. 18; v. 268; p. 496.
- Wicks, John, Columbus, Ohio, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,314,455; Aug. 26; v. 265; p. 577.
- Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Telephone system. No. 1,315,444; Sept. 9; v. 266; p. 187.
- Wickstrom, Alfred, and C. A. Borgstrom, Minneapolis, Minn. Spring-wheel for vehicles. No. 1,296,446; Mar. 4; v. 260; p. 141.
- Wickstrom, Alfred, and C. A. Borgstrom, Minneapolis, Minn. Spring-wheel for vehicles. No. 1,304,007; May 20; v. 262; p. 350.
- Wickstrom, Charles A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic screw-assembling machine. No. 1,319,740; Oct. 28; v. 267; p. 506.
- Wickstrom, Joseph H., Beresford, S. D. Ventilating ridge-roll for buildings. No. 1,307,228; June 17; v. 263; p. 436.
- Wickstrom, Joseph H., Beresford, S. D. Hog-watering trough. No. 1,313,146; Aug. 12; v. 265; p. 279.
- Wickstrom, Joseph H., Beresford, S. D. Hog-fountain. No. 1,317,148; Sept. 23; v. 266; p. 566.
- Widdowson, Frank J., South Kensington, London, England. Method of and means for holding notes, bills, and other paper money. No. 1,305,326; June 3; v. 263; p. 19.
- Widen, Elmer N., assignor to Everstick Anchor Company, St. Louis, Mo. Altimeter. No. 1,308,971; July 8; v. 264; p. 205.
- Widerberg, Adolph M., Worcester, Mass. Circuit-interrupter. No. 1,290,449; Jan. 7; v. 258; p. 105.
- Widescope Camera Co., The. (See Bingham, George W., assignor.)
- Widmann, Carl, West New York, N. J. Emergency-valve. No. 1,295,658; Feb. 25; v. 259; p. 713.
- Widmer, Adolf and F. Schönenwerd, Switzerland. Mechanical movement. No. 1,293,278; Feb. 4; v. 259; p. 71.
- Widmer, Adolph, Paterson, N. J. Driving mechanism for looms. No. 1,297,623; Mar. 18; v. 260; p. 466.
- Widmer, Arthur J., Webster Groves, assignor, by mesne assignments, to Widmer Engineering Company, St. Louis, Mo. Erecting ribbed concrete floors. No. 1,291,324; Jan. 14; v. 258; p. 336.
- Widmer, Arthur J., Webster Groves, assignor to Widmer Engineering Company, St. Louis, Mo. Apparatus for constructing floors. No. 1,291,325; Jan. 14; v. 258; p. 336.
- Widmer, Arthur J., Webster Groves, assignor to Widmer Engineering Company, St. Louis, Mo. Fireproof floor construction. No. 1,291,326; Jan. 14; v. 258; p. 336.
- Widmer, Beda, Leeds, Mass. Fly-trap. No. 1,319,369; Oct. 21; v. 267; p. 412.
- Widmer, Christian U., Upland, Calif. Electric-lamp support. No. 1,305,852; June 3; v. 263; p. 118.
- Widmer, Christian U., Upland, Calif. Boat-support. No. 1,305,853; June 3; v. 263; p. 118.
- Widmer Engineering Company. (See Widmer, Arthur J., assignor.)
- Widmer, Fritz. (See Widmer, Adolf and F.)
- Widmer, Harry A., London, England. Fountain-pen and the like. No. 1,296,890; Mar. 11; v. 260; p. 278.
- Widner, George H., Des Moines, Iowa. Producing water-softening material. No. 1,294,007; Feb. 11; v. 259; p. 272.
- Widstrand, Carl H., Chicago, Ill. Cross-link fastener for non-skid chains. No. 1,300,078; Apr. 8; v. 261; p. 358.
- Wiebe, Sigurd, Brooklyn, assignor to American Toyland Creators, Inc., New York, N. Y. Submersible toy submarine. No. 1,312,656; Aug. 12; v. 265; p. 183.
- Wiebler, George. (See Wiebler, Harry B., W. T., and G.)
- Wiebler, Harry B., W. T., and G., Fort Madison, Iowa. Reinforced-concrete railway-tie. No. 1,322,985; Nov. 25; v. 268; p. 660.
- Wiebler, Walter T. (See Wiebler, Harry B., W. T., and G.)
- Wieczorek, Clemens R., Union Hill, N. J., assignor to Peerless Rubber Manufacturing Company. Wrapping-machine. No. 1,319,982; Oct. 28; v. 267; p. 552.
- Wieda, Ernst F. W. (See Pfeil, Anthony P., assignor.) (Reissue.)
- Wiederanders, Hans, Kalamazoo, Mich. Figure toy. No. 1,292,191; Jan. 21; v. 258; p. 578.
- Wiederhold, Henry, assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Bituminous lining for surfaces exposed to corrosive action. No. 1,305,678; June 3; v. 263; p. 85.
- Wiederhold, Peter, Detroit, Mich. Power and hand steering mechanism for tractors. No. 1,305,325; June 3; v. 263; p. 18.
- Wiederholdt, Ernest F., St. Louis, Mo. Silo. No. 1,311,366; July 29; v. 264; p. 749.
- Wiederholdt, Ernest F., St. Louis, Mo. Bottle crate or container. No. 1,317,845; Oct. 7; v. 267; p. 36.
- Wiederwax, Robert W., assignor of one-half to C. Geist, Atlantic City, N. J. Air and gas mixing device. No. 1,295,247; Feb. 25; v. 259; p. 617.
- Wiedinger, Edward, Peoria, Ill. Weigher. No. 1,300,313; Apr. 15; v. 261; p. 436.
- Wiedinger, Edward, Peoria, Ill. Grain-weigher. No. 1,300,314; Apr. 15; v. 261; p. 436.
- Wiegand, Edwin L., Youngstown, Ohio. Emplacing process and apparatus. No. 1,312,657; Aug. 12; v. 265; p. 183.
- Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Gear-shifting mechanism. No. 1,313,362; Aug. 19; v. 265; p. 335.
- Wiegand, Hugo O., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company. Cloth-clamp. No. 1,307,606; June 24; v. 263; p. 538.
- Wiegand, Walter, Baltimore, Md. Direction-indicator. No. 1,310,316; July 15; v. 264; p. 490.
- Wiegand, William B. (See Rieder and Wiegand.)
- Wiegand, William B., and W. Uffelman, Montreal, Quebec, Canada, assignors to Rubber Regenerating Company. Impregnated fibrous material. No. 1,317,340; Sept. 30; v. 266; p. 638.
- Wiehl, Ferdinand and T., New York, N. Y. Strainer. No. 1,303,438; May 13; v. 262; p. 208.
- Wiehl, Thomas. (See Wiehl, Ferdinand and T.)
- Wiel, Fannie K., San Francisco, Calif. Receiving and distributing mail-box. No. 1,307,649; June 24; v. 263; p. 546.
- Wielage, Herman H., Chicago, Ill. Extension-table. No. 1,325,458; Dec. 16; v. 269; p. 526.
- Wieler, Jacob, Eldorado, Kans. Stock-gate. No. 1,326,383; Dec. 30; v. 269; p. 753.
- Wielgolaski, Frans H. A., Christiania, Norway. Method and apparatus for stretching out long double or multiple electric arcs. No. 1,320,431; Nov. 4; v. 268; p. 14.
- Wiener, John A. (See Hundhausen and Trantow, assignors.)
- Wiener, Morris, New York, N. Y. Button. No. 1,323,942; Dec. 2; v. 269; p. 135.
- Wierouski, Jan K., Chicago, Ill. Tile-forming machine. No. 1,316,213; Sept. 16; v. 266; p. 342.
- Wiersma, Lambert. (See Aylworth and Wiersma.)
- Wiese, Edward, et al. (See Butterfield, Charles V., assignor.)
- Wiese, Edwin W., Thiensville, Wis. Debit and credit slip. No. 1,314,032; Aug. 26; v. 265; p. 496.
- Wiese, William, Cleveland, Ohio. Transfer. No. 1,300,079; Apr. 8; v. 261; p. 358.
- Wig, Rudolph J. (See Burrows, Charles W., assignor.)
- Wigelius, Sven G., Gottenborg, Sweden. Internal-combustion engine of compound type. No. 1,321,690; Nov. 11; v. 268; p. 315.
- Wigg, William, London, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Typographic composing-machine. No. 1,307,718; June 24; v. 263; p. 558.
- Wiggin, Rollin H., East Orange, N. J., assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Producing wall-covering and product thereof. No. 1,313,658; Aug. 19; v. 265; p. 391.
- Wiggins, Charles A., Kansas City, Kans. Water softening and purifying system. No. 1,318,122; Oct. 7; v. 267; p. 87.
- Wiggins, Wade, assignor of forty-nine one-hundredths to W. T. Ward, Cleveland, Ohio. Garbage-can. No. 1,318,636; Oct. 14; v. 267; p. 247.
- Wigington, Charles S., et al. (See Dickerson, Herbert M., assignor.)
- Wigington, George P., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Indexed sheet. No. 1,294,585; Feb. 18; v. 259; p. 441.
- Wigington, George P., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Loose-sheet device. No. 1,313,933; Aug. 26; v. 265; p. 477.
- Wigington, George P., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Loose-sheet device. No. 1,316,125; Sept. 16; v. 266; p. 325.



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- Wigginton, George P., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Binder device. No. 1,317,249; Sept. 30; v. 266; p. 621.
- Wigginton, Peter W. (See Dick and Wigginton.)
- Wight, Arthur M., New York, N. Y. Folding closed-corner box or crate. No. 1,295,403; Feb. 25; v. 259; p. 653.
- Wight, Sedgwick N., assignor to General Railway Signal Company, Gates, N. Y. Absolute permissive block-signal system. No. 1,294,736; Feb. 18; v. 259; p. 477.
- Wight, Sedgwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Overlap signaling means. No. 1,294,855; Feb. 18; v. 259; p. 505.
- Wight, Sedgwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track railways. No. 1,300,080; Apr. 8; v. 261; p. 358.
- Wight, Sedgwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track railways. No. 1,300,081; Apr. 8; v. 261; p. 359.
- Wight, Sedgwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track railways. No. 1,300,082; Apr. 8; v. 261; p. 359.
- Wight, Sedgwick N., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Absolute permissive block-signal system. No. 1,322,665; Nov. 25; v. 268; p. 601.
- Wightman & Hough Company. (See Hough, Herbert D., assignor.)
- Wightman, William S., Norwich, N. Y. Lock. No. 1,297,427; Mar. 18; v. 260; p. 424.
- Wigton, George H., Eureka, Utah. Treating silicious ores. No. 1,305,327; June 3; v. 263; p. 19.
- Wigwam Co., The. (See Cone, Ralph R., assignor.)
- Wikander, Oscar R., Pittsburgh, Pa., assignor to Worthington Pump and Machinery Corporation. Valve for air-compressors. No. 1,324,137; Dec. 9; v. 269; p. 216.
- Wikheim, Peder L., Seattle, Wash. Transmission-gear lock for automobiles. No. 1,316,128; Sept. 16; v. 266; p. 325.
- Wikowsky, Frederick, Cookville, Ill. Tightening wires. No. 1,320,949; Nov. 4; v. 268; p. 111.
- Wikschröm, Jakob, Dusseldorf, Germany. Machine for making nails or pins from wire. No. 1,321,778; Nov. 11; v. 268; p. 332.
- Wikstrom, Malcom U., Charleroi, assignor to Pittsburgh Steel Products Company, Pittsburgh, Pa. Annealing-furnace. No. 1,319,741; Oct. 28; v. 267; p. 506.
- Wilbee, Thomas J., Buffalo, N. Y., assignor to one-half to R. F. Shepard, Providence, R. I. Internal-combustion engine. No. 1,293,279; Feb. 4; v. 259; p. 71.
- Wilber, Ford R., and H. E. Ball, assignors to The Mecn-light Bait Company, Paw Paw, Mich. Folding chair. No. 1,293,592; Feb. 4; v. 259; p. 143.
- Wilber, Wallace E. (See Toaz, Wilber, and Maynard.)
- Wilbert, Mathias, Philadelphia, Pa. Agricultural tool. No. 1,291,327; Jan. 14; v. 258; p. 337.
- Wilbur, Daniel W., *et al.* (See Francis, Alvin A., assignor.)
- Wilbur, John N., Tacoma, Wash. Attachment for mowing-machines. No. 1,295,659; Feb. 25; v. 259; p. 713.
- Wilbur, Ray S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,303,001; May 6; v. 262; p. 100.
- Wilbur, Ray S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,312,773; Aug. 12; v. 265; p. 205.
- Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,324,364; Dec. 9; v. 269; p. 260.
- Wilbur, Ray S., Lyndhurst, and H. W. Ulrich, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,323,430; Dec. 2; v. 269; p. 39.
- Wilck, Axel F. O., Stockholm, Sweden. Push-button. No. 1,306,092; June 10; v. 263; p. 192.
- Wilcock, Finch. (See Halverson, Wilcock, and Treichel.)
- Wilcomb, Frank, assignor to Wildman Mfg. Co., Norristown, Pa. Spring-beard needle. No. 1,297,428; Mar. 18; v. 260; p. 425.
- Wilcomb, Frank, assignor to Wildman Mfg. Co., Norristown, Pa. Beard-opener for spring-beard-needle knitting-machines. No. 1,305,575; June 3; v. 263; p. 66.
- Wilcox, Albinus. (See Wilcox, Charles E., assignor.)
- Wilcox, Charles E. (See Willard, Wilson, and Wilcox.)
- Wilcox, Charles E., Brooklyn, assignor of forty-nine one-hundredths to A. Wilcox, Kings county, N. Y. Producing musical compositions through the medium of color. No. 1,323,943; Dec. 2; v. 269; p. 135.
- Wilcox, Crittenden and Company. (See Mowry, Edward S., assignor.)
- Wilcox, Daniel A. and S. H., Garden City, N. Y. Utilization of tin-scraps. No. 1,310,381; July 15; v. 264; p. 502.
- Wilcox, Doctor M., Menominee, Mich. Tooth-brush holder and sterilizer. No. 1,304,639; May 27; v. 262; p. 509.
- Wilcox, Ernest C. (See Turney and Wilcox, assignors.)
- Wilcox, Frederick A., and G. H. McIntire, assignors of one-third to A. I. Switzer, Spokane, Wash. Coffee-roaster. No. 1,298,130; Mar. 25; v. 260; p. 600.
- Wilcox, Howard, Washington, D. C. Front and rear driven motor-vehicle. No. 1,308,314; July 1; v. 264; p. 56.
- Wilcox, Howard, Washington, D. C. Motor-driven-vehicle train. No. 1,308,315; July 1; v. 264; p. 56.
- Wilcox, Lloyd E., Green, Kans. Lifting-jack. No. 1,314,451; Aug. 26; v. 265; p. 576.
- Wilcox, Newton K., Providence, R. I. Traction-wheel. No. 1,292,192; Jan. 21; v. 258; p. 578.
- Wilcox, Philip W., assignor to Bird-Wilcox Co., Inc., Atlanta, Ga. Oxyacetylene cutting-torch. No. 1,324,866; Dec. 16; v. 269; p. 417.
- Wilcox Pressed Steel Company. (See Robinson, Giles, assignor.)
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Method and die for trimming blanks. No. 1,294,987; Feb. 18; v. 259; p. 535.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Method and die for trimming blanks. No. 1,294,988; Feb. 18; v. 259; p. 535.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Method and die for trimming blanks. No. 1,294,989; Feb. 18; v. 259; p. 535.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Die for trimming blanks. No. 1,294,990; Feb. 18; v. 259; p. 535.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Heading-machine. No. 1,297,429; Mar. 18; v. 260; p. 425.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Angle-guard. No. 1,305,328; June 3; v. 263; p. 19.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Feed mechanism. No. 1,305,329; June 3; v. 263; p. 19.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Feed mechanism. No. 1,309,749; July 15; v. 264; p. 388.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Hopper mechanism. No. 1,311,256; July 29; v. 264; p. 728.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Dies for trimming blanks. No. 1,321,962; Nov. 18; v. 268; p. 417.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Threading-die. (Reissue.) No. 14,759; Nov. 18; v. 268; p. 522.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Producing screws, bolts, pins, or the like. No. 1,325,067; Dec. 16; v. 269; p. 454.
- Wilcox, Richard L., and T. Nolan, assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Die for trimming blanks. No. 1,294,991; Feb. 18; v. 259; p. 536.
- Wilcox, Richard L., and C. O. Petitjean, assignors to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Machine for trimming blanks. No. 1,294,993; Feb. 18; v. 259; p. 536.
- Wilcox, Sidney H. (See Wilcox, Daniel A. and S. H.)
- Wilcox, Walter A., Pontiac, Mich. Portable housing structure. No. 1,305,576; June 3; v. 263; p. 66.
- Wilcox, William D., Chicago, Ill. Process of and apparatus for making coke and gas. No. 1,319,917; Oct. 28; v. 267; p. 539.
- Wilcox, William D., Chicago, Ill. Apparatus for the manufacture of combined coal and water gas. No. 1,321,963; Nov. 18; v. 268; p. 417.
- Wild, Charles H. (See Whitehurst and Wild.)
- Wild, Charles M. (See Heins, Wild, and Schwarzmann.)
- Wild, Henry, *et al.* (See Hamm, Phillip T., assignor.)
- Wild, Lancelot W., and E. P. Barfield, Westminster, London, England. Method of and means for indicating the condition of steel, iron, or other magnetizable metal during heat treatment. No. 1,321,347; Nov. 11; v. 268; p. 251.
- Wild, William H., McKeesport, Pa. Railway-tie and fastener. No. 1,317,341; Sept. 30; v. 266; p. 638.
- Wildan, Michael F., Los Angeles, Calif. Automobile-body. No. 1,297,764; Mar. 18; v. 260; p. 497.
- Wilde, A. W. (See Hearst, William, assignor.)
- Wilde, Ray, and E. R. Wimmermark, Muskegon, Mich. Automobile direction-signal. No. 1,314,626; Sept. 2; v. 266; p. 29.
- Wilder, Allen B., assignor to Wilder Patents Company, St. Louis, Mo. Game-board and spinner device. No. 1,300,315; Apr. 15; v. 261; p. 436.
- Wilder, Clinton E., Erie, Pa. Shaft-finishing tool. No. 1,302,110; Apr. 29; v. 261; p. 865.



- Wilder Patents Company. (See Wilder, Allen B., assignor.)
- Wilder, Ralph E., Johnstown, Pa. Truck-frame. No. 1,326,243; Dec. 30; v. 269; p. 727.
- Wilder, Thomas M., Highland Park, Ill. Automobile radiator and construction. No. 1,302,111; Apr. 29; v. 261; p. 865.
- Willey, Edward M., Canonbury, London, England. Tap for cutting screw-threads. No. 1,307,103; June 17; v. 263; p. 414.
- Willey, Edward M., Canonbury, London, England. Device for cutting screw-threads by chasers. No. 1,307,104; June 17; v. 263; p. 414.
- Willey, Edward M., Canonbury, London, England. Device for cutting screw-threads by chasers. No. 1,313,568; Aug. 19; v. 265; p. 374.
- Wildman, Ernest A., Indianapolis, Ind., assignor to Parke Davis & Company, Detroit, Mich. Alkamin esters of alkoxy-amino-benzoic acids and other similar compounds of said acids. No. 1,317,250; Sept. 30; v. 266; p. 621.
- Wildman, Ernest A., Indianapolis, Ind., assignor to Parke Davis & Company, Detroit, Mich. Alkamin esters of amino-toluic acids and other similar compounds of said acids. No. 1,317,251; Sept. 30; v. 266; p. 621.
- Wildman, Harry G., Montreal, Quebec, Canada. Extraction of alumina from clay. No. 1,326,384; Dec. 30; v. 269; p. 753.
- Wildman Mfg. Co. (See Ballard, George L., assignor.)
- Wildman Mfg. Co. (See Pigeon, Albert M., assignor.)
- Wildman Mfg. Co. (See Taylor, William O., assignor.)
- Wildman Mfg. Co. (See Wilcomb, Frank, assignor.)
- Wildrick, Meade. (See Straub and Wildrick.)
- Wildrick, Meade, U. S. Army, assignor of one-half to O. I. Straub, Fort Howard, Md. Aerial torpedo or mine. No. 1,309,500; July 8; v. 264; p. 803.
- Wildrick, Meade, U. S. Army, assignor of one-half to O. I. Straub, Fort Howard, Md. Aerial torpedo or mine. No. 1,311,785; July 29; v. 264; p. 826.
- Wildrick, Meade, U. S. Army, assignor of one-half to O. I. Straub, Fort Howard, Md. Mobile mount for heavy artillery. No. 1,311,786; July 29; v. 264; p. 827.
- Wile, Jerome. (See McCarthy, Florence, assignor.)
- Wiley, Ad, Bedford, Iowa. Chair. No. 1,325,548; Dec. 23; v. 269; p. 561.
- Wiley, C. Z., et al. (See Key, Emmett L., assignor.)
- Wiley, Edgar C., assignor of one-third to E. J. F. Wilson, Lynchburg, Va. Smokeless boiler. No. 1,318,123; Oct. 7; v. 267; p. 88.
- Wiley, George H. (See Charlton, George, assignor.)
- Wiley, Harry W., Black Lick, Pa. Can-opener. No. 1,311,028; July 22; v. 264; p. 653.
- Wiley, Mark, Chicago, Ill. Lock-nut. No. 1,290,450; Jan. 7; v. 258; p. 106.
- Wiley, Mark, Chicago, Ill. Nut-lock. No. 1,317,058; Sept. 23; v. 266; p. 549.
- Wiley, Porter A., assignor to Kokomo Electric Co., Kokomo, Ind. Reversible magneto. No. 1,292,193; Jan. 21; v. 258; p. 578.
- Wiley, Roy R., assignor, by mesne assignments, to Flex-lume Sign Company, Buffalo, N. Y. Illuminated sign. (Reissue). No. 14,679; July 1; v. 264; p. 137.
- Wiley, Samuel, Jr., Metuchen, N. J. Time-fuse for aerobombs. No. 1,319,635; Oct. 21; v. 267; p. 464.
- Wiley, Samuel, Jr., Metuchen, N. J. Illuminating aerobomb. No. 1,319,636; Oct. 21; v. 267; p. 464.
- Wiley, William S., assignor of one-half to himself and one-half to C. F. Strong, Wichita, Kans. Syrup-can. No. 1,323,664; Dec. 2; v. 269; p. 82.
- Wilfert, Christian J., Dorchester, assignor of one-half to himself, and one-half to G. F. Wilfert, Jamaica Plain, Mass. Sound-reproducing apparatus. No. 1,308,566; July 1; v. 264; p. 102.
- Wilfert, George F. (See Wilfert, Christian J., assignor.)
- Wilhelm, Louis, New Haven, Conn. Compensator for carburetor air-supply. No. 1,292,194; Jan. 21; v. 258; p. 579.
- Wilhelm, Oliver P., and J. F. Posdal, assignors of one-fourth to S. W. Wilhelm, Michigan City, Ind., and one-fourth to B. Loewenthal, Chicago, Ill. Oil or gas furnace. No. 1,295,944; Mar. 4; v. 260; p. 28.
- Wilhelm, Sanford W., et al. (See Wilhelm and Posdal, assignors.)
- Wilke, Edward V., San Antonio, Tex. Traffic-signal. No. 1,324,633; Dec. 9; v. 269; p. 312.
- Wilke, Hermann W., Plainfield, N. J. Motion-transmitting means. No. 1,293,593; Feb. 4; v. 259; p. 143.
- Wilkinson, Charles M., Middlefield, Ohio. Wrench. No. 1,311,850; July 29; v. 264; p. 839.
- Wilkinson, Oscar F., Durham, N. C. Saw-oiler. No. 1,311,851; July 29; v. 264; p. 839.
- Wilkinson, William H., Jr., Washington, D. C. Bottle attachment. No. 1,314,294; Aug. 26; v. 265; p. 546.
- Wilkes, Little B., Chicago, Ill. Window construction. No. 1,307,387; June 24; v. 263; p. 498.
- Wilkes, Walter T., et al. (See Gray, Albert, assignor.)
- Wilkie, James G., Brooklyn, N. Y. Heat-radiating apparatus. No. 1,297,624; Mar. 18; v. 260; p. 466.
- Wilkie, William, Dennistoun, Glasgow, Scotland. Pressing-machine. No. 1,320,813; Nov. 4; v. 268; p. 85.
- Wilkin, George W., and J. P. Kee, Grangeville, Idaho. Power-transmission means. No. 1,300,316; Apr. 15; v. 261; p. 436.
- Wilkin, George W., and J. P. Kee, Grangeville, Idaho. Four-wheel drive for motor-vehicles. No. 1,304,640; May 27; v. 262; p. 509.
- Wilking, Alphons P. M., assignor to C. H. Oakley, Trenton, N. J. Press. No. 1,319,742; Oct. 28; v. 267; p. 506.
- Wilkins, George A., Amsterdam, N. Y. Needle-mount. No. 1,326,555; Dec. 30; v. 269; p. 786.
- Wilkins, Norman F. (See Riddle and Wilkins.)
- Wilkins, Shell I. (See Wilkins, Wendell W. and S. I.)
- Wilkins, Thomas M., East Randolph, N. Y. Pressure-regulator. No. 1,294,586; Feb. 18; v. 259; p. 442.
- Wilkins, Wendell W. and S. I., Canisteo, N. Y. Auto attachment. No. 1,302,112; Apr. 29; v. 261; p. 865.
- Wilkins, Willie A., Orange, Tex. Projectile. No. 1,307,607; June 24; v. 263; p. 538.
- Wilkinson, Albert H., Jacksonville, Fla. Stethoscope. No. 1,321,266; Nov. 11; v. 268; p. 235.
- Wilkinson, Albert R. J., Twickenham, England. Vise or like work-holder. No. 1,312,011; Aug. 5; v. 265; p. 29.
- Wilkinson Brothers and Company. (See Fuhrmann, Warren, assignor.)
- Wilkinson Brothers and Company. (See Fuhrmann and Squarey, assignors.)
- Wilkinson, Charles W., assignor of one-half to E. M. Le Clair, Plant City, Fla. Brake for brick-presses. No. 1,302,113; Apr. 29; v. 261; p. 865.
- Wilkinson, Clayton P., R. L. Edsall, and S. Wilkinson, Leamington, Ontario, Canada; said Edsall assignor to said C. P. Wilkinson and said S. Wilkinson. Automatic electric railway-gate. No. 1,306,508; June 10; v. 263; p. 272.
- Wilkinson, Edward F., Gramercy, La. Dismantling-tool. No. 1,311,029; July 22; v. 264; p. 653.
- Wilkinson, George, Harrogate, England. Coal-fired boiler-furnace. No. 1,296,247; Mar. 4; v. 260; p. 98.
- Wilkinson, Henry O., Petheridge, England. Casing for cylindrical distributing-valves. No. 1,304,520; May 20; v. 262; p. 449.
- Wilkinson, Henry O., Petheridge, England. Valve and valve mechanism. No. 1,309,081; July 8; v. 264; p. 226.
- Wilkinson, Howard A., and W. B. Nixdorf, Jr., Oneida, N. Y. Control for tail-lights. No. 1,313,847; Aug. 19; v. 265; p. 426.
- Wilkinson, James, Pittsfield, Mass., assignor to General Electric Company. Lead-bushing. No. 1,304,230; May 20; v. 262; p. 391.
- Wilkinson, James, Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,306,570; June 10; v. 263; p. 283.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Valve mechanism. No. 1,325,223; Dec. 16; v. 269; p. 483.
- Wilkinson, John, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Force-feed lubricator. No. 1,300,798; Apr. 15; v. 261; p. 538.
- Wilkinson, John F., Winchendon, Mass. Marine power station. No. 1,318,469; Oct. 14; v. 267; p. 215.
- Wilkinson, Le Roy J., Omaha, Nebr. Safety apparatus for aviators. No. 1,298,615; Mar. 25; v. 260; p. 703.
- Wilkinson, Paul H., San Bernardino, Calif. Retread-vulcanizer. No. 1,297,765; Mar. 18; v. 260; p. 498.
- Wilkinson, Stanley. (See Wilkinson and Edsall.)
- Wilkinson, Theodore S., Washington, D. C., assignor to the Government of the United States. Smoke apparatus. No. 1,303,749; May 13; v. 262; p. 265.
- Wilkinson, William J., Oakland, and B. Hedstrom, San Francisco, Calif. Boat-davit. No. 1,303,750; May 13; v. 262; p. 265.
- Wilkinson, William Z., Baton Rouge, La. Frame for trimmer-saws. No. 1,323,138; Nov. 25; v. 268; p. 689.
- Wilkinson, Aaron L., Houston, Tex. Well-screen washer and perforator. No. 1,298,131; Mar. 25; v. 260; p. 600.
- Wilks, Arthur H., Olton, near Birmingham, and P. H. Hartshorne, Birmingham, England. Internal-combustion engine. No. 1,313,569; Aug. 19; v. 265; p. 375.
- Wilks, Frank D., Nephi, Utah. Belt-triuning machine. No. 1,316,751; Sept. 23; v. 266; p. 493.
- Will, Anthony, assignor to The Will & Baumer Company, Syracuse, N. Y. Making candles. No. 1,294,008; Feb. 11; v. 259; p. 272.
- Will, August D. (See Will, Fritz, A. D., and C. J.)
- Will & Baumer Co., The. (See Will, Harold H., assignor.)
- Will & Baumer Company, The. (See Will, Anthony, assignor.)
- Will, Charles J. (See Will, Fritz, A. D., and C. J.)
- Will, Frederick. (See Will, Philip and F.)
- Will, Fritz, A. D., and C. J., Alton, Ill. Sausage-linking machine. No. 1,316,752; Sept. 23; v. 266; p. 493.
- Will, Harold H., assignor to The Will & Baumer Co., Syracuse, N. Y. Candle-lamp. No. 1,292,195; Jan. 21; v. 258; p. 579.
- Will, John H. (See Heizer and Will.)
- Will, Philip and F., assignors to Sill Stove Works, Rochester, N. Y. Combination-stove. No. 1,307,388; June 24; v. 263; p. 499.



## Alphabetical list of patentees—Continued.

- Willard, Arthur G., and W. W. Wilson, Los Angeles, and C. E. Wilcox, East Bakersfield, Calif., assignors to said Arthur G. Willard and W. W. Wilson. Well-boring apparatus. No. 1,297,625; Mar. 18; v. 260; p. 466.
- Willard, Charles F., New York, assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Guy-wire attachment. No. 1,310,850; July 22; v. 264; p. 620.
- Willard, Charles F., New York, assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, N. Y. Aeroplane-securing member. No. 1,315,356; Sept. 9; v. 266; p. 172.
- Willard, Cyrus F., San Diego, Calif. Devulcanizing rubber. No. 1,322,077; Nov. 18; v. 268; p. 438.
- Willard, Cyrus F., San Diego, Calif. Devulcanizing process and product thereof. No. 1,322,151; Nov. 18; v. 268; p. 452.
- Willard, Cyrus F., San Diego, Calif. Devulcanizing vulcanized rubber. No. 1,322,152; Nov. 18; v. 268; p. 452.
- Willard, Donald E., Decatur, assignor to Allith Prouty Company, Danville, Ill. Pintle-hinge. No. 1,323,344; Dec. 2; v. 269; p. 23.
- Willard, Frank, Utica, Mo. Strainer milk-pail. No. 1,322,384; Nov. 18; v. 268; p. 496.
- Willard Storage Battery Company. (See Willard, Theodore A., assignor.)
- Willard, Theodore A., Cleveland, Ohio. Storage-battery separator. No. 1,295,660; Feb. 25; v. 259; p. 714.
- Willard, Theodore A., Cleveland, Ohio. Separator-slicing machine. No. 1,297,767; Mar. 18; v. 260; p. 498.
- Willard, Theodore A., Cleveland, Ohio. Machine for forming storage-battery jars. No. 1,314,627; Sept. 2; v. 266; p. 29.
- Willard, Theodore A., assignor to Willard Storage Battery Company, Cleveland, Ohio. Grid-pasting machine. No. 1,297,766; Mar. 18; v. 260; p. 498.
- Willcocks, Michael J., Clevedon, England. Sparking plug. No. 1,325,549; Dec. 23; v. 269; p. 561.
- Willcox, Frank A., Dartford, England. Safety device for refrigerating-machines. No. 1,297,975; Mar. 18; v. 260; p. 542.
- Willcox, Lealand C., Des Moines, Iowa, assignor of one-half to National Pie Crust Company, Milwaukee, Wis., and one-half to A. C. White, Des Moines, Iowa. Pastry-baking machine. No. 1,305,183; May 27; v. 262; p. 611.
- Willcox, Oswin W., Dover, N. J. Treatment of waste sulfate liquors. No. 1,312,293; Aug. 5; v. 265; p. 81.
- Wille, Walter O., Waterloo, Iowa. Tool-holder. No. 1,319,443; Oct. 21; v. 267; p. 427.
- Wilms, Henry J., Kenosha, Wis. Poultry-fountain. No. 1,314,033; Aug. 26; v. 265; p. 496.
- Willens, George, Chicago, Ill., assignor to Kineto Machine Co. Stereopticon advertising-clock. No. 1,292,196; Jan. 21; v. 258; p. 579.
- Willert, John E., Passaic, N. J., assignor of one-half to D. J. O'Brien, New York, and one-eighth to W. L. Wright, Fulton, N. Y. Humidor. No. 1,318,939; Oct. 14; v. 267; p. 305.
- Willerton, Thomas W., Bloomington, Mich. Tire. No. 1,319,549; Oct. 21; v. 267; p. 447.
- Willett, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 1,306,133; June 10; v. 263; p. 200.
- Willett, Benedict E., Dayton, Ohio. Display-rack. No. 1,311,305; July 29; v. 264; p. 737.
- Willett, Benedict E., Dayton, Ohio. Hand-truck. No. 1,326,556; Dec. 30; v. 269; p. 786.
- Willett, Thomas C., Adams, Tenn. Accelerator for internal-combustion engines. No. 1,325,430; Dec. 26; v. 269; p. 521.
- Willette, Joseph F. F. (See Forness, Marcus H., assignor.)
- Willette, Joseph F., Seattle, Wash. Aspirator for surgical use. No. 1,299,081; Apr. 1; v. 261; p. 107.
- Willey, George O., Lynn, Mass. Incandescent electric lamp. No. 1,293,594; Feb. 4; v. 259; p. 144.
- Willey, John S., New York, N. Y. Necktie-holder. No. 1,318,248; Oct. 7; v. 267; p. 113.
- William Cramp & Sons Ship & Engine Building Company, The. (See Metten, John F., assignor.)
- William E. Quimby, Inc. (See Fay, Frank A., assignor.)
- William Garrigue & Company. (See Garrigue, William E., assignor.)
- William Haas Company, The. (See Haas, William, assignor.)
- William Haas Company, The. (See Haas and Ringels-paugh, assignors.)
- William, Joseph S., Riverton, N. J. Pier or wharf. No. 1,317,606; Sept. 30; v. 266; p. 690.
- William Koehl Company. (See Clarke and Ily, assignors.)
- William M. Crane Company. (See O'Dowd, Henry W., assignor.)
- William Muir and Company. (See Melloy and Owens, assignors.)
- William R. Johnston Manufacturing Company. (See Spencer and Lillie, assignors.)
- William Schollhorn Company, The. (See Bernard, William A., assignor.)
- William Sellers & Company. (See Kneass, Strickland L., assignor.)
- William Tonk & Bro. Inc. (See Tonk, William H., assignor.)
- William Wadsworth and Sons Limited. (See Cryer and Mangnall, assignors.)
- William Wharton, Jr., & Company. (See Cline, Albert R., assignor.)
- Williams, Aaron W., Moundville, Ala. Pen-extractor. No. 1,319,444; Oct. 21; v. 267; p. 427.
- Williams, Albert P. (See Risser and Williams.)
- Williams, Albert E., Lakewood, assignor to Ohio Overall Company, Wooster, Ohio. Garment. No. 1,293,280; Feb. 4; v. 259; p. 72.
- Williams, Alexander E., U. S. Army. Combined motor tractor and cultivator. No. 1,308,691; July 1; v. 264; p. 125.
- Williams, Alfred O., South Bend, Ind. Differential gearing. No. 1,297,954; Mar. 18; v. 260; p. 537.
- Williams, Alfred O., South Bend, Ind., assignor to Clark Equipment Company, Buchanan, Mich. Differential gearing. No. 1,310,976; July 22; v. 264; p. 643.
- Williams, Allen A., Lovelock, Nebr. Attachment for operating accelerators of automobiles, &c. No. 1,309,347; July 8; v. 264; p. 275.
- Williams, Anders, Christiania, Norway. Device for measuring liquid-levels. No. 1,306,453; June 10; v. 263; p. 262.
- Williams, Annie B., executrix. (See Carey and Todd.)
- Williams, Aras J., Utica, N. Y. Lined garment and making the same. No. 1,298,845; Apr. 1; v. 261; p. 53.
- Williams, Arthur F., Los Angeles, Cal. Container. No. 1,294,011; Feb. 11; v. 259; p. 273.
- Williams Articulator Company. (See Williams, Charles E., assignor.)
- Williams Boltless Rail Joint Manufacturing Company. (See Condon, Daniel D., assignor.)
- Williams, Brown & Earle. (See Olvis, James E., assignor.)
- Williams, C. C., trustee. (See Wright, Lee O., assignor.)
- Williams, Charles C., assignor, by mesne assignments, to Evertite Nut Corporation, Detroit, Mich. Lock-nut. No. 1,294,737; Feb. 18; v. 259; p. 477.
- Williams, Charles C., assignor to Evertite Nut Corporation, Detroit, Mich. Lock-nut. No. 1,294,994; Feb. 18; v. 259; p. 536.
- Williams, Charles C., assignor to Evertite Nut Corporation, Detroit, Mich. Lock-nut and making the same. No. 1,294,995; Feb. 18; v. 259; p. 536.
- Williams, Charles E., Chicago, Ill., assignor to Williams Articulator Company. Portable audiphone-transmitter. No. 1,311,430; July 29; v. 264; p. 761.
- Williams, Charles F., Erie, Pa. Thread-cutting machine. No. 1,318,519; Oct. 14; v. 267; p. 225.
- Williams, Charles H. (See Green and Williams.)
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Fourth-point support for brake-beams. No. 1,304,134; May 20; v. 262; p. 373.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Fourth-point support for brake-beams. No. 1,304,135; May 20; v. 262; p. 373.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Fourth-point support for brake-beams. No. 1,304,136; May 20; v. 262; p. 373.
- Williams, Charles L., assignor to Russell Manufacturing Company, Middletown, Conn. Loom. No. 1,319,819; Oct. 28; v. 267; p. 521.
- Williams, Clara H., Moosup, Conn. Method and means of teaching. No. 1,295,404; Feb. 25; v. 259; p. 653.
- Williams, Clarence C., trustee. (See Surton, Francis A., assignor.)
- Williams, David J., Herrin, Ill. Mining-drill bit and coupling. No. 1,318,940; Oct. 14; v. 267; p. 305.
- Williams, David J., assignor of one-half to T. Davis, Detroit, Mich. Making pictures for projection upon screens. No. 1,319,820; Oct. 28; v. 267; p. 521.
- Williams, David S., Los Angeles, Cal. Car-door fastener. No. 1,294,009; Feb. 11; v. 259; p. 272.
- Williams, David S., Portland, Oreg. Swivel-frame for razor-strops. No. 1,316,403; Sept. 16; v. 266; p. 378.
- Williams, Delvin D., Greenwood, Wis. Mower. No. 1,300,907; Apr. 15; v. 261; p. 562.
- Williams, Dick B., assignor to Louisiana Nut and Produce Company, New Orleans, La. Nut sheller and separator. No. 1,317,342; Sept. 30; v. 266; p. 638.
- Williams, Edward A., San Francisco, Cal. Device for lowering window-sash. No. 1,290,451; Jan. 7; v. 258; p. 106.
- Williams, Edward R., Sharpsburg, Pa. Making boiler compounds. No. 1,294,738; Feb. 18; v. 259; p. 477.
- Williams, Edward T., Brooklyn, N. Y. Gas-tight seal for compressor-shafts. No. 1,292,197; Jan. 21; v. 258; p. 580.
- Williams, Edward T., New York, N. Y. Refrigerating-machine. No. 1,312,600; Aug. 12; v. 265; p. 172.
- Williams, Edward T., New York, N. Y. Air-cooled condenser for refrigerating-machines. No. 1,313,363; Aug. 19; v. 265; p. 336.
- Williams, Ernest C., Ruleville, Miss. Rail-joint. No. 1,308,827; July 8; v. 264; p. 178.
- Williams, Ernest S., Toronto, Ontario, Canada. Sanitary serving device. No. 1,313,364; Aug. 19; v. 265; p. 336.
- Williams, Evan O., Hamworthy, near Poole, assignor to Williams Foreign Patents, Limited, London, England. Construction of reinforced-concrete floors, decks, such as decks of ships, deck-floors for bridges, and the like. No. 1,310,515; July 22; v. 264; p. 558.



- Williams, Evan O., Parkstone, assignor to Williams Foreign Patents Limited, London, England. Reinforced-concrete pipe. No. 1,316,659; Sept. 23; v. 266; p. 476.
- Williams Foreign Patents, Limited. (See Williams, Evan O., assignor.)
- Williams Foundry & Machine Company, The. (See Arthur, James W., assignor.)
- Williams Foundry and Machine Company, The. (See Nesbitt and Lauritzen, assignors.)
- Williams Foundry & Machine Company, The. (See Shelton, William A., assignor.)
- Williams Foundry and Machine Company, The. (See Williams, John K., assignor.)
- Williams, Frank A., Detroit, Mich. Combined safety and bolt lock for guns. No. 1,318,423; Oct. 14; v. 267; p. 207.
- Williams, Frank A., Detroit, Mich. Gun-sight. No. 1,318,424; Oct. 14; v. 267; p. 207.
- Williams, Frank P., assignor of one-third to E. E. Gudka, five per cent. to L. M. Kruse and one-twentieth to H. Crocker, Detroit, Mich. Smoker's implement. No. 1,316,343; Sept. 16; v. 266; p. 367.
- Williams, Fred D., Ogden, Utah. Bass-drum and cymbal beater. No. 1,309,082; July 8; v. 264; p. 227.
- Williams, Frederic S., Brooklyn, assignor to F. Klein, trustee, New York, N. Y. Sewing-machine. No. 1,310,460; July 22; v. 264; p. 548.
- Williams, George A., Salt Lake City, Utah. Signaling device for vehicles. No. 1,314,289; Aug. 26; v. 265; p. 545.
- Williams, George H., Boston, Mass., assignor, by mesne assignments, to Nevada Manufacturing Company, Reno, Nev. Laundry clip or tag. No. 1,292,198; Jan. 21; v. 258; p. 580.
- Williams, George M., Elizabeth, N. J., assignor to P. Lorillard Company, New York, N. Y. Bale-band tightener. No. 1,324,090; Dec. 9; v. 269; p. 207.
- Williams, George R., Battle Creek, Mich. Token-holder. No. 1,309,991; July 15; v. 264; p. 432.
- Williams, George T., Oakland, Calif. Combustion-engine of the rotary type. No. 1,298,846; Apr. 1; v. 261; p. 53.
- Williams, Green & Rome Company. (See Roberts, Harry G., assignor.)
- Williams, Griffith E., Cambria, Wis. Bomb. No. 1,300,537; Apr. 15; v. 261; p. 483.
- Williams, Harold E. (See McCutchen and Williams.)
- Williams, Harry S. (See Elliott and Williams.)
- Williams, Harvey D., Wallingford, Conn., assignor to The Waterbury Tool Co., Waterbury, Conn. Back-pressure release-valve. No. 1,307,839; June 24; v. 263; p. 580.
- Williams, Harvey D., Wallingford, Conn., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gear-cutting tool. No. 1,313,034; Aug. 12; v. 265; p. 257.
- Williams, Harvey D., Wallingford, Conn., assignor to Gear Improvement Company, Inc., New York, N. Y. Internal gear. No. 1,313,035; Aug. 12; v. 265; p. 257.
- Williams, Harvey D., Wallingford, Conn., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gearing. No. 1,324,287; Dec. 9; v. 269; p. 245.
- Williams, Henry, Correctionville, Iowa. Vehicle-wheel. No. 1,290,452; Jan. 7; v. 258; p. 106.
- Williams, Henry C., Ravine, Miss. Conveyor-tensioning means. No. 1,292,199; Jan. 21; v. 258; p. 580.
- Williams, Herbert E. (See Clayton, Huebner, and Williams.)
- Williams, Herbert E., Red Bank, N. J. Garment-hanger. No. 1,300,908; Apr. 15; v. 261; p. 562.
- Williams, Herbert G., Cherry Fork, Ohio. Compound gasoline-engine. No. 1,321,964; Nov. 18; v. 268; p. 417.
- Williams, Herman H., assignor to Northrup, King & Co., Minneapolis, Minn. Attachment for seed-package-filling machines. No. 1,301,346; Apr. 22; v. 261; p. 690.
- Williams, Herman H., assignor to Northrup, King & Co., Minneapolis, Minn. Filling-rack. No. 1,317,534; Sept. 30; v. 266; p. 675.
- Williams, Hopkin J., Nanticoke, Pa. Pick. No. 1,307,289; June 17; v. 263; p. 447.
- Williams, Horton C., Big Rapids, Mich. Collapsible chair. No. 1,292,200; Jan. 21; v. 258; p. 580.
- Williams, Hugh R., Chicago, Ill. Knob-attaching means. No. 1,313,147; Aug. 12; v. 265; p. 279.
- Williams, Jacob W. C., Palco, Kans. Pen and pencil rack. No. 1,319,743; Oct. 28; v. 267; p. 507.
- Williams, James A., Bisbee, Ariz. Tire-clamp. No. 1,300,538; Apr. 15; v. 261; p. 484.
- Williams, James W., Spokane, Wash., and C. A. Parker, Haugan, Mont. Automatic electrically-controlled railway-train-stopping system. No. 1,323,944; Dec. 2; v. 269; p. 136.
- Williams, Jarvis S., Danbury, Conn. Wrench. No. 1,317,846; Oct. 7; v. 267; p. 36.
- Williams, Jarvis S., Danbury, Conn. Wrench. No. 1,317,847; Oct. 7; v. 267; p. 36.
- Williams, Jeremiah, Abergole, Wales. Board game and appliances therefor. No. 1,304,431; May 20; v. 262; p. 431.
- Williams, Jesse J., Utica, N. Y. Wire frame. No. 1,302,888; May 6; v. 262; p. 78.
- Williams, John D., *et al.* (See Bolton, Williams, and Struve.)
- Williams, John H., Cincinnati, Ohio. Coaster-plane. No. 1,317,252; Sept. 30; v. 266; p. 621.
- Williams, John K., Jacksonville, Fla. Permutation-lock. No. 1,312,376; Aug. 5; v. 265; p. 97.
- Williams, John K., Akron, Ohio, assignor to The Williams Foundry and Machine Company, Akron, Ohio. Vulcanizer. No. 1,308,517; July 1; v. 264; p. 93.
- Williams, John N. S., Honolulu, Hawaii. Attachment for centrifugal machines. No. 1,304,840; May 27; v. 262; p. 547.
- Williams, John W., Santa Rosa, Calif., assignor to Western Steel Auto-Wheel Company, Reno, Nev. Auto-wheel. No. 1,321,075; Nov. 4; v. 268; p. 135.
- Williams, Joseph G. (See Drew, Leonard S., assignor.)
- Williams, Joseph S., Philadelphia, Pa. Resilient wheel equipment. No. 1,290,453; Jan. 7; v. 258; p. 106.
- Williams, Joseph S., Riverton, N. J. Floatable concrete construction. No. 1,310,461; July 22; v. 264; p. 548.
- Williams, Joseph S., Riverton, N. J. Reinforced concrete construction and constructing the same. No. 1,310,462; July 22; v. 264; p. 548.
- Williams, Joseph S., Riverton, N. J. Resilient wheel equipment. No. 1,318,711; Oct. 14; v. 267; p. 261.
- Williams, Keith, Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,300,317; Apr. 15; v. 261; p. 437.
- Williams, Lacey Y., Toledo, Ohio. Dust-guard. No. 1,318,425; Oct. 14; v. 267; p. 207.
- Williams, Leo L., Cleveland, Ohio, assignor, by mesne assignments, to W. B. Rematore, New Haven, Conn. Folding-seat. No. 1,307,840; June 24; v. 263; p. 581.
- Williams, Lewis M., Fort Wayne, Ind. Cook-stove. No. 1,323,562; Dec. 2; v. 269; p. 64.
- Williams, Lloyd, Cadshead, near Manchester, England. Electrically-operated ink-recorder. No. 1,306,985; June 17; v. 263; p. 392.
- Williams, Louis N. D., Ogontz, Pa. Facilitating mechanical transfer of stitches from the needles of knitting machines. No. 1,308,828; July 8; v. 264; p. 178.
- Williams, Louis N. D., Ogontz, Pa. Machine for uniting knitted webs. No. 1,315,064; Sept. 2; v. 266; p. 108.
- Williams, Margaret E. (See Howard and Williams, assignors.)
- Williams, Martin G., *et al.* (See Partridge, Hugh, assignor.)
- Williams, Martin L., South Bend, Ind., assignor, by mesne assignments, to American Sleeve-Valve Motor Company. Gas-engine. No. 1,298,132; Mar. 25; v. 260; p. 600.
- Williams, Martin L., South Bend, Ind., assignor, by mesne assignments, to American Sleeve-Valve Motor Company. Lubricating system. No. 1,303,622; May 13; v. 262; p. 242.
- Williams, Martin L., South Bend, Ind., assignor, by mesne assignments, to American Sleeve-Valve Motor Company. Engine. No. 1,308,466; July 1; v. 264; p. 83.
- Williams, Martin L., South Bend, Ind., assignor, by mesne assignments, to American Sleeve-Valve Motor Company. Engine. No. 1,322,517; Nov. 25; v. 268; p. 573.
- Williams, Martin L., South Bend, Ind., assignor, by mesne assignments, to American Sleeve-Valve Motor Company. Testing device for engines. No. 1,323,209; Nov. 25; v. 268; p. 704.
- Williams, Martin L., South Bend, Ind., assignor, by mesne assignments, to American Sleeve-Valve Motor Company. Engine. No. 1,323,210; Nov. 25; v. 268; p. 704.
- Williams, Martin L., South Bend, Ind., and S. E. Witt, Chicago, Ill., assignors, by mesne assignments, to American Sleeve-Valve Motor Company. Engine. No. 1,298,429; Mar. 25; v. 260; p. 663.
- Williams, May B., Dallas, Tex. Amusement apparatus. No. 1,320,664; Nov. 4; v. 268; p. 57.
- Williams, Milton F., St. Louis, Mo. Holder for auditory devices. No. 1,296,891; Mar. 11; v. 260; p. 279.
- Williams, Milton F., St. Louis, Mo. Combined disintegrating and separating device. No. 1,312,658; Aug. 12; v. 265; p. 183.
- Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Metal-catcher for reducing-mills. No. 1,300,799; Apr. 15; v. 261; p. 539.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Forging-block. No. 1,305,854; June 3; v. 263; p. 118.
- Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Cage for reducing-machines. No. 1,308,384; July 1; v. 264; p. 69.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Grinder for wet sugar, &c. No. 1,319,501; Oct. 21; v. 267; p. 438.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Cage. No. 1,322,210; Nov. 18; v. 268; p. 463.
- Williams, Nealy, Fortson, Ga. Curtain-stretcher. No. 1,318,426; Oct. 14; v. 267; p. 207.
- Williams, Nolan S., assignor to Victory Piston Ring Mfg. Co., El Paso, Tex. Metallic packing for pistons. No. 1,290,819; Jan. 7; v. 258; p. 194.



## Alphabetical list of patentees—Continued.

- Williams, Oliver J., Burlingame, Calif., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Rotary pivoted hammer. No. 1,317,769; Oct. 7; v. 267; p. 21.
- Williams, Oliver J., Burlingame, Calif., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crusher. No. 1,322,211; Nov. 18; v. 268; p. 463.
- Williams, Owen, Ipswich, S. D. Flying-machine. No. 1,319,821; Oct. 28; v. 267; p. 521.
- Williams Patent Crusher and Pulverizer Co. (See Campbell, Edward B., assignor.)
- Williams Patent Crusher & Pulverizer Company. (See Davidson, William M., assignor.)
- Williams Patent Crusher and Pulverizer Co. (See Plaisted, Harold M., assignor.)
- Williams Patent Crusher & Pulverizer Co. (See Williams, Milton F., assignor.)
- Williams Patent Crusher & Pulverizer Co. (See Williams, Oliver J., assignor.)
- Williams, Payton, Johnetta, Pa. Rail-joint. No. 1,313,771; Aug. 19; v. 265; p. 412.
- Williams Pivot Sash Company, The. (See Middleton, Burton W., assignor.)
- Williams, Ralph E., Santa Ana, Calif. Electric lamp. No. 1,299,888; Apr. 8; v. 261; p. 317.
- Williams, Ralph O., Vicksburg, Mich. Dust and valve cap. No. 1,307,947; June 24; v. 263; p. 601.
- Williams, Rhessa F., Lake Toxaway, N. C. Container for manure or the like. No. 1,309,501; July 8; v. 264; p. 303.
- Williams, Robert N., London, England, assignor to Powers Accounting Machine Company, New York, N. Y. Automatic tabulating-machine. No. 1,302,616; May 6; v. 262; p. 25.
- Williams, Robert N., London, England, assignor to Powers Accounting Machine Company, New York, N. Y. Perforating-machine. No. 1,311,544; July 29; v. 264; p. 783.
- Williams, Robert N., Norwich, England, assignor to Powers Accounting Machine Company, New York, N. Y. Perforating-machine. No. 1,309,927; July 15; v. 264; p. 420.
- Williams, Roger, assignor to Nitrogen Products Company, Providence, R. I. Process of and means for fixing atmospheric nitrogen. No. 1,314,231; Aug. 26; v. 265; p. 534.
- Williams, Rowland T. D., Broken Hill, New South Wales, Australia, assignor, by mesne assignments, to Minerals Separation North American Corporation. Separation of mixed sulfid ores. No. 1,300,516; Apr. 15; v. 261; p. 479.
- Williams, Roy O., Columbus, Ohio. Welder's tool. No. 1,301,347; Apr. 22; v. 261; p. 690.
- Williams, Samuel B., Jr., Brooklyn, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Automatic telephone system. No. 1,294,587; Feb. 18; v. 259; p. 442.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,295,405; Feb. 25; v. 259; p. 653.
- Williams, Samuel B., Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,304,641; May 27; v. 262; p. 509.
- Williams, Samuel B., Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,310,226; July 15; v. 264; p. 474.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switch-control circuits. No. 1,312,884; Aug. 12; v. 265; p. 227.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,318,941; Oct. 14; v. 267; p. 306.
- Williams, Samuel B., Jr., Brooklyn, N. Y., and R. L. Quass, Hawthorne, N. J. assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,324,365; Dec. 9; v. 269; p. 200.
- Williams Sealing Corporation, The. (See Hey, Edmund A., assignor.)
- Williams, Theron H., Chicago, Ill. Uncoupling device. No. 1,294,010; Feb. 11; v. 259; p. 272.
- Williams, Tom, Marysville, Kans. Rotary spader. No. 1,300,083; Apr. 8; v. 261; p. 360.
- Williams, William E., Chicago, Ill. Tool for locking nuts. No. 1,300,207; Apr. 8; v. 261; p. 387.
- Williams, William E., Chicago, Ill. Manufacturing piston-rings. No. 1,311,937; Aug. 5; v. 265; p. 16.
- Williams, William H., Birmingham, England. Means for casting metal. No. 1,302,114; Apr. 29; v. 261; p. 866.
- Williams, William H. A., Bennettsville, S. C. Apparatus for tufting mattresses. No. 1,298,847; Apr. 1; v. 261; p. 53.
- Williams, William J., et al. (See Guilford, Frank A., assignor.)
- Williams, William M., Harlem, Mont. Artificially compelling the fecundation of alfalfa. No. 1,306,209; June 10; v. 263; p. 214.
- Williams, William M., Tonopah, assignor of one-half to B. Langston, Reno, Nev. Drill-bit-pulling device. No. 1,305,184; May 27; v. 262; p. 611.
- Williams, William M., assignor of one-half to B. Langston, Reno, Nev. Drill-puller. No. 1,316,753; Sept. 23; v. 266; p. 493.
- Williams, William R. (See Howard and Williams.)
- Williams, William S., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,310,042; July 15; v. 264; p. 441.
- Williams, Willis D., St. Louis, Mo., assignor of one-half to D. D. Condron, Prescott, Ariz. Soft-collar support. No. 1,291,328; Jan. 14; v. 258; p. 337.
- Williamson, A. G., trustee. (See Gray, Gardner B., assignor.)
- Williamson, Alpheus J., Cocolalla, Idaho. Track-leveling sight. No. 1,296,248; Mar. 4; v. 260; p. 99.
- Williamson, Charles S., Chicago, Ill. Coal receiving and storing plant. No. 1,301,630; Apr. 22; v. 261; p. 742.
- Williamson, Charles S., Chicago, Ill. Coal-handling plant. No. 1,315,439; Sept. 9; v. 266; p. 186.
- Williamson, Charles S., Chicago, Ill. Coal-handling plant. No. 1,316,129; Sept. 16; v. 266; p. 326.
- Williamson, Colin M., London, England. Sensitizing-medium-changing mechanism. No. 1,293,595; Feb. 4; v. 259; p. 144.
- Williamson, E. L. (See Bedingsfield, John C., assignor.)
- Williamson, George B., Gramercy, La., assignor to The Industrial Apparatus Corporation, Brooklyn, N. Y. Continuous defection of sugar solutions. No. 1,317,607; Sept. 30; v. 266; p. 690.
- Williamson, Harry M., and S. H. Alexander, Denver, Colo. Radiumizer. No. 1,302,115; Apr. 29; v. 261; p. 866.
- Williamson Heater Company, The. (See Richardson, John N., assignor.)
- Williamson Heater Company, The. (See Richardson and Muller, assignors.)
- Williamson Heater Company, The. (See Woodall, William J., assignor.)
- Williamson Hydraulic Machine Company, The. (See Williamson, Romeo L., assignor.)
- Williamson, James A., Portadown, Ireland. Scutching of flax and like fibers. No. 1,302,261; Apr. 29; v. 261; p. 893.
- Williamson, James E., South Orange, N. J., and R. E. Milligan, Mount Washington, Mass. Mechanism for combining fluids. No. 1,291,329; Jan. 14; v. 258; p. 337.
- Williamson, John D., Jr., Philadelphia, Pa. Electrical steering-gear. No. 1,312,935; Aug. 12; v. 265; p. 237.
- Williamson, Oscar C., Mountain View, Calif. Screen-door hook. No. 1,313,969; Aug. 26; v. 265; p. 484.
- Williamson, Richard L., Tiburon, Calif. Tractor. No. 1,307,330; June 17; v. 263; p. 455.
- Williamson, Romeo L., assignor to The Williamson Hydraulic Machine Company, Mount Vernon, Ohio. Power-transmitting mechanism. No. 1,293,596; Feb. 4; v. 259; p. 144.
- Williamson, Samuel S., Philadelphia, Pa. Flush-tank valve. No. 1,304,432; May 20; v. 262; p. 431.
- Willis, Bernard D., Oak Park, Ill. Stabiliscope. No. 1,294,856; Feb. 18; v. 259; p. 506.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Telephone system. No. 1,293,597; Feb. 4; v. 259; p. 144.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,306,826; June 17; v. 263; p. 363.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Substation telephone-circuit. No. 1,313,570; Aug. 19; v. 265; p. 375.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,314,778; Sept. 2; v. 266; p. 57.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,315,440; Sept. 9; v. 266; p. 186.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,315,442; Sept. 9; v. 266; p. 187.
- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,318,004; Oct. 7; v. 267; p. 65.
- Willis, Bernard D., and T. G. Martin, assignors to Automatic Electric Company, Chicago, Ill. Telephone district exchange system. No. 1,306,825; June 17; v. 263; p. 362.
- Willis Bumper Co. (See Dixon, Thomas, assignor.)
- Willis, Dick, and E. H. Martens, Westside, Iowa. Traction and antiskid device for truck-tires. No. 1,306,730; June 17; v. 263; p. 345.
- Willis, Francis M. (See Coon, Arthur J., assignor.)
- Willis, George M., Chicago, Ill. Treatment of ores and minerals. No. 1,313,970; Aug. 26; v. 265; p. 484.
- Willis, George M., Chicago, Ill. Checkwriter. No. 1,321,348; Nov. 11; v. 268; p. 251.
- Willis, John E. (See Jones and Willis.)
- Willis, Jonathan R., and R. J. Fisher, Philadelphia, Pa., assignors to General Excello Manufacturing Company, Wilmington, Del. Fluid, semi-fluid, or plastic ejector. No. 1,325,386; Dec. 16; v. 269; p. 513.



- Willis, Josephus T., Meridian, Miss. Slicing-machine. No. 1,318,038; Oct. 7; v. 267; p. 77.
- Willis, Leland, and O. F. Woodworth, assignors to Bate-man Manufacturing Company, Grenloch, N. J. Lever for agricultural implements. No. 1,290,454; Jan. 7; v. 258; p. 107.
- Willison, Walter W. (See McColl and Willison.)
- Williston, Belvin T., Somerville, assignor to The United Injector Company, Boston, Mass. Boiler-feeding in-jector. No. 1,311,631; July 29; v. 264; p. 798.
- Willits, Guy L., Minneapolis, Minn. Cooling device for internal-combustion engines. No. 1,299,889; Apr. 8; v. 261; p. 318.
- Willman, Herman V., Chicago, Ill. Socket-carrier for electric fixtures. No. 1,309,051; July 8; v. 264; p. 221.
- Willman, Southwell, Spokane, Wash. Type-writer desk-case. No. 1,314,628; Sept. 2; v. 266; p. 29.
- Willmarth, George E., Potsdam, N. Y. Apparatus for accurately reading milk test-bottles. No. 1,315,446; Sept. 9; v. 266; p. 188.
- Willmott, Charles. (See Evered and Willmott.)
- Willmott, Walter, Toronto, Ontario, Canada. Stamping book-covers and the like. No. 1,320,950; Nov. 4; v. 268; p. 112.
- Willour, Le Roy, assignor to The Ashland Products Co., Ashland, Ohio. Jack. (Reissue.) No. 14,605; Mar. 4; v. 260; p. 176.
- Willour, Le Roy, and C. O. Roberts, Ashland, Ohio. Power-distributing attachment for automobiles. No. 1,322,986; Nov. 25; v. 268; p. 661.
- Wills, John B., assignor of one-third to D. W. Brobeck, Pittsburgh, Pa. Gripper for printing-presses. No. 1,324,946; Dec. 16; v. 269; p. 431.
- Wills, Joseph. (See Lyons and Wills.)
- Wills, Walter B., Baltimore, Md. Strainer. No. 1,307,569; June 24; v. 263; p. 531.
- Wills, Walter B., Baltimore, Md. Strainer. No. 1,310,773; July 22; v. 264; p. 606.
- Wills, Walter B., Baltimore, Md. Soap-tray. No. 1,320,814; Nov. 4; v. 268; p. 86.
- Wills, Wayne, Chicago, Ill., assignor, by mesne assign-ments, to American Seating Company. Box-desk. No. 1,305,983; June 3; v. 263; p. 143.
- Wills, William W., Palmyra, Va. Fertilizer-distributing attachment. No. 1,293,281; Feb. 4; v. 259; p. 72.
- Willshaw, Harry. (See Macbeth and Willshaw.)
- Willis, Henry E., Cranford, N. J. Ice-machine. No. 1,290,455; Jan. 7; v. 258; p. 107.
- Willis, Henry E., Cranford, N. J. Refrigerating-ma-chine. No. 1,314,779; Sept. 2; v. 266; p. 57.
- Willson, Clarence A., Des Moines, Iowa. Reinforced ma-sonry construction. No. 1,314,558; Sept. 2; v. 266; p. 16.
- Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Eye-protector. No. 1,306,366; June 10; v. 263; p. 246.
- Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Eye-protector. No. 1,306,367; June 10; v. 263; p. 246.
- Willson, Frederick, assignor to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 1,323,431; Dec. 2; v. 269; p. 39.
- Willson, Freeman R., Worthington, Ohio. Antiskid de-vice. No. 1,299,082; Apr. 1; v. 261; p. 107.
- Willson, Russell A., assignor of one-half to E. Simon, Spokane, Wash. Amplifying-horn. No. 1,311,478; July 29; v. 264; p. 770.
- Willys, John N. (See Corl and Hagemeyer, assignors.)
- Willys, John N. (See MacNichol, George P., assignor.)
- Willys-Morrow Company, The. (See Kirk, George E., assignor.)
- Willys-Overland Co., The. (See McKinley, Charles W., assignor.)
- Willys-Overland Company, The. (See Brockway, Carl P., assignor.)
- Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
- Willys-Overland Company, The. (See Koelker, Oscar H., assignor.)
- Willys-Overland Company, The. (See Pomeroy, Percy W., assignor.)
- Willys-Overland Company, The. (See Rollins, Grant W., assignor.)
- Willys-Overland Company, The. (See Shepler, Harry L., assignor.)
- Wilmaus, Lloyd I., Irving, Tex. Line-type-casting ma-chine. No. 1,320,951; Nov. 4; v. 268; p. 112.
- Wilmarth, Charles A., Detroit, Mich. Peat-pressing ma-chine. No. 1,304,137; May 20; v. 262; p. 373.
- Wilmarth & Morman Company. (See Gorham, Edwin T., assignor.)
- Wilmore, Carlton A., Ben Avon, assignor of one-third to E. J. Schellen-trager and one-third to J. H. Schellen-trager, Pittsburgh, Pa. Rail-clamp. No. 1,310,851; July 22; v. 264; p. 620.
- Wilmore, John T., Seattle, Wash. Blank-feeding device. No. 1,300,084; Apr. 8; v. 261; p. 360.
- Wilmot Castle Company. (See Underwood, Weeden B., assignor.)
- Wilmot Castle Company. (See Underwood and Castle, assignors.)
- Wilmot, George W. (See Federaro and Wilmot.)
- Wilmot, William F., Zion City, Ill. Fan-folded book. No. 1,311,733; July 29; v. 264; p. 817.
- Wilms, Lee W. V., Chicago, Ill. Metatarsal and anterior foot-support. No. 1,313,442; Aug. 19; v. 265; p. 350.
- Wilms, Lee W. V., Chicago, Ill. Self-acting foot-arch sup-port. No. 1,320,952; Nov. 4; v. 268; p. 112.
- Wilputte, Alice A., et al. (See McIntire, Charles V., as-signor.)
- Wilputte, Alice A. (See Wilputte, Louis, assignor.)
- Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven door. No. 1,296,892; Mar. 11; v. 260; p. 279.
- Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coal-charging lorry. No. 1,303,526; May 13; v. 262; p. 224.
- Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven iron work. No. 1,320,432; Nov. 4; v. 268; p. 14.
- Wilsey, Irven H., assignor to A. Sorge, Jr., Chicago, Ill. Water-flow regulator. No. 1,316,991; Sept. 23; v. 266; p. 536.
- Wilson, Alexander R., Seattle, Wash. Type-distributor. No. 1,306,323; June 10; v. 263; p. 238.
- Wilson, Alfred R. (See Thompson and Wilson.)
- Wilson, Allen P. (See Wilson, Robert A. and A. P.)
- Wilson, Allen P., Weston, assignor to Boston Pencil Pointer Company, Waltham, Mass. Cutter for pencil-sharpeners. No. 1,301,772; Apr. 22; v. 261; p. 771.
- Wilson, Allen P., Weston, assignor to Boston Pencil Pointer Company, Waltham, Mass. Cutter for pencil-sharpeners. No. 1,301,773; Apr. 22; v. 261; p. 772.
- Wilson, Allen P., Weston, assignor to Boston Pencil Pointer Company, Waltham, Mass. Producing cutters for pencil-sharpeners. No. 1,301,774; Apr. 22; v. 261; p. 772.
- Wilson, Andrew A., Ashland, Ky. Sandpaper-block. No. 1,320,299; Oct. 28; v. 267; p. 611.
- Wilson, Anona G. (See Mingle and Wilson.)
- Wilson, Baxter C., West Marion, S. C. Gasket-cutter. No. 1,308,650; July 1; v. 264; p. 117.
- Wilson & Bennett Mfg. Co. (See Bennett, Stevens A., assignor.)
- Wilson, Byron E., assignor to The Eymon Crossing Com-pany, Marion, Ohio. Railway-crossing. No. 1,321,691; Nov. 11; v. 268; p. 315.
- Wilson, Carl F., Bay City, Mich. Walking-machine. No. 1,296,893; Mar. 11; v. 260; p. 279.
- Wilson, Catherine V. (See Wilson, Charles D., assignor.)
- Wilson, Catherine V., Toledo, Ohio. Flat-iron holder. No. 1,292,977; Jan. 28; v. 258; p. 786.
- Wilson, Charles D., assignor of one-half to C. V. Wilson, Toledo, Ohio. Hand-grip for guns. No. 1,307,469; June 24; v. 263; p. 514.
- Wilson, Charles D., assignor of one-half to C. V. Wilson, Toledo, Ohio. Hand-grip for guns. No. 1,321,173; Nov. 11; v. 268; p. 217.
- Wilson, Charles E., Wilkinsburg, Pa., assignor to West-inghouse Electric and Manufacturing Company. Wind-ing dynamo-electric-machine armatures. No. 1,292,551; Jan. 28; v. 258; p. 685.
- Wilson, Charles M., Elmira, N. Y. Valve construction. No. 1,291,330; Jan. 14; v. 258; p. 337.
- Wilson, Charles W., assignor of six forty-eighths to W. K. Evans, sixteen forty-eighths to S. Chegwyn, and twenty-six forty-eighths to M. E. Evans, Berea, Ohio. Auto-matic train control. No. 1,304,642; May 27; v. 262; p. 509.
- Wilson, Daniel S., West Somerville, assignor to Samson Electric Company, Canton, Mass. Polarized signaling mechanism. No. 1,300,539; Apr. 15; v. 261; p. 484.
- Wilson, Daniel S., West Somerville, assignor to Samson Electric Company, Canton, Mass. Polarized signaling mechanism. No. 1,309,750; July 15; v. 264; p. 388.
- Wilson, David H., Franklin township, Bergen county, N. J. Electric welding system. No. 1,306,294; June 10; v. 263; p. 232.
- Wilson, David H., Ridgewood Park, N. J. Welding cast-iron. No. 1,306,295; June 10; v. 263; p. 233.
- Wilson, David H., Paterson, N. J. Electric welding sys-tem. No. 1,307,030; June 17; v. 263; p. 401.
- Wilson, Delbert T. (See Wilson, William R., assignor.)
- Wilson Dress-Hook Company, The. (See Wilson, Frank E., assignor.)
- Wilson, Edward, Vancouver, British Columbia, Canada. Fire-escape. No. 1,321,869; Nov. 18; v. 268; p. 400.
- Wilson, Edward C., Washington, D. C. Self-locking cotter-pin. No. 1,308,018; June 24; v. 263; p. 614.
- Wilson, Elihu C., Bakersfield, Calif. Well-elevator. No. 1,314,996; Sept. 2; v. 266; p. 96.
- Wilson, Elihu C., assignor to W. W. Wilson, Los Angeles, Calif. Pump. No. 1,299,083; Apr. 1; v. 261; p. 107.
- Wilson, Ernest J. F. (See Wiley, Edgar C., assignor.)
- Wilson, Ervon J., assignor of one-half to A. O. Ouren, Minneapolis, Minn. Cuspidor. No. 1,305,428; June 3; v. 263; p. 37.
- Wilson, Eugene M., Savannah, Ga. Combination drawing-cabinet. No. 1,322,385; Nov. 18; v. 263; p. 496.
- Wilson, Floyd M. (See John, Forrest W., assignor.)
- Wilson, Floyd M. (See Johnson, Forrest W., assignor.)
- Wilson-Fox, Henry, London, England. Aircraft. No. 1,298,133; Mar. 25; v. 260; p. 601.



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- Wilson, Frank E., assignor to The Wilson Dress-Hook Company, Cleveland, Ohio. Sewing-machine. No. 1,296,029; Mar. 4; v. 260; p. 49.
- Wilson, Frank E., assignor of one-half to J. T. Rose, Lancaster, Ohio. Flying-machine. No. 1,315,586; Sept. 9; v. 266; p. 213.
- Wilson, Fred G., Brooklyn, N. Y. Roller-bearing. No. 1,312,936; Aug. 12; v. 265; p. 237.
- Wilson, Frederick D., assignor to Deere and Company, Moline, Ill. Mowing-machine. No. 1,313,443; Aug. 19; v. 265; p. 351.
- Wilson, Frederick D., assignor to Deere and Company, Moline, Ill. Flexible shaft. No. 1,315,806; Sept. 9; v. 266; p. 251.
- Wilson, George, Albert Lea, Minn. Condenser for motor-driven railway section-cars. No. 1,306,986; June 17; v. 263; p. 392.
- Wilson, George A., Louisville, N. Y. Milk strainer and cooler. No. 1,301,775; Apr. 22; v. 261; p. 772.
- Wilson, George A., Chase Mills, assignor of fifty-one one-hundredths to F. R. Martin, Louisville, and F. J. Flanagan, Norfolk, N. Y. Ice-cream can. No. 1,303,751; May 13; v. 262; p. 265.
- Wilson, George D., et al. (See Cornu, Louis E., assignor.)
- Wilson, George D., Plainfield, N. J. Shutter-holder. No. 1,309,382; July 8; v. 264; p. 282.
- Wilson, George H., Minneapolis, Minn. Pulley attachment for automobiles. No. 1,326,557; Dec. 30; v. 269; p. 786.
- Wilson, George W. (See Dron and Wilson.)
- Wilson, Grace E., executrix. (See Wilson, John C.)
- Wilson, Grace M., Detroit, Mich. Bodkin. No. 1,314,723; Sept. 2; v. 266; p. 47.
- Wilson, Herbert, Seattle, Wash. Direction-indicator. No. 1,326,316; Dec. 30; v. 269; p. 740.
- Wilson, Howard B. (See Seghers, Emiel P., assignor.)
- Wilson, Howard M., South St. Paul, Minn., assignor to Swift and Company, Chicago, Ill. Gutter's knife. No. 1,299,084; Apr. 1; v. 261; p. 107.
- Wilson, J. Napoleon B., St. Louis, Mo. Nut. No. 1,324,867; Dec. 16; v. 269; p. 417.
- Wilson, J. Pearl, Jacksonville, Fla. Flexible knockdown container. No. 1,309,502; July 8; v. 264; p. 304.
- Wilson, J. Pearl, Jacksonville, Fla. Finger-bar. No. 1,315,891; Sept. 9; v. 266; p. 268.
- Wilson, James A., Central Falls, R. I. Combined reed and heddle-frame. No. 1,309,674; July 15; v. 264; p. 374.
- Wilson, James B. (See Peck, Frederick G., assignor.)
- Wilson, James C., Dalton, Ga. Swing. No. 1,300,680; Apr. 15; v. 261; p. 513.
- Wilson, James F., Kensington, Md. Adjustable table. No. 1,319,445; Oct. 21; v. 267; p. 427.
- Wilson, James G., Houston, Tex. Wire-tightener. No. 1,307,650; June 24; v. 263; p. 546.
- Wilson, James M., Newark, N. J. Magnetic inductor. No. 1,308,567; July 1; v. 264; p. 102.
- Wilson, James N. M. (See Suwalski, Leininger and Wilson.)
- Wilson, Jess M., Stanberry, Mo. Animal-marker. No. 1,318,821; Oct. 14; v. 267; p. 282.
- Wilson, John, Alameda, Calif. Packing for pistons and piston-valves. No. 1,299,085; Apr. 1; v. 261; p. 108.
- Wilson, John A., assignor to T. Hardy, Manchester, England. Filter-press. No. 1,316,404; Sept. 16; v. 266; p. 378.
- Wilson, John B., deceased, Leadville, Colo.; A. M. Anderson, administrator. Motor. No. 1,322,856; Nov. 25; v. 268; p. 636.
- Wilson, John C., deceased, Boston, Mass.; G. E. Wilson, executrix. Time-stamp. No. 1,300,909; Apr. 15; v. 261; p. 562.
- Wilson, John G., Ellendale, Del. Man-power boat. No. 1,321,267; Nov. 11; v. 268; p. 235.
- Wilson, John H., U. S. Army. Electric-lighting system for automobiles. No. 1,297,768; Mar. 18; v. 260; p. 498.
- Wilson, John J., Columbia, Tenn. Box-strapping device. No. 1,297,283; Mar. 11; v. 260; p. 365.
- Wilson, John M. (See Wood and Wilson.)
- Wilson, John P., Rockville Center, N. Y. Type-writer type-cleaner. No. 1,302,746; May 6; v. 262; p. 50.
- Wilson, John S., and W. E. Dalby, London, assignors of one-third to Sir W. G. Armstrong-Whitworth and Company Limited, Newcastle-upon-Tyne, England. Gun-sight. No. 1,303,440; May 13; v. 262; p. 268.
- Wilson, John S., Westminster, London, and W. E. Dalby, London, assignors of one-third to Sir W. G. Armstrong-Whitworth and Company Limited, Newcastle-upon-Tyne, England. Sighting of guns and apparatus for use therein. No. 1,308,134; July 1; v. 264; p. 24.
- Wilson, John S., Westminster, London, and W. E. Dalby, Ealing, London, assignors of one-third to Sir W. G. Armstrong-Whitworth and Company Limited, Newcastle-upon-Tyne, England. Method and apparatus for measuring angular velocities, &c. No. 1,322,153; Nov. 18; v. 268; p. 452.
- Wilson, John S., Westminster, London, and W. E. Dalby, Ealing, London, assignors of one-third to Sir W. G. Armstrong-Whitworth and Company Limited, Newcastle-upon-Tyne, England. Apparatus for directing artillery fire on moving objects. No. 1,322,154; Nov. 18; v. 268; p. 452.
- Wilson, John S., Sutton, and W. E. Dalby, London, assignors of one-third to Sir W. G. Armstrong-Whitworth and Company Limited, Newcastle-upon-Tyne, England. Electric regulating-switch for use with ordnance and for other purposes. No. 1,315,617; Sept. 9; v. 266; p. 218.
- Wilson, John T., Alameda, Cal. Packing-ring for pistons. No. 1,290,456; Jan. 7; v. 258; p. 107.
- Wilson, Joseph H., G. W. Dixon, and W. E. McLaughlin, assignors to The American Rolling Mill Company, Middletown, Ohio. Metal-working machine. No. 1,313,365; Aug. 19; v. 265; p. 336.
- Wilson, Joseph N., Chicago, Ill. Combination-ticket. No. 1,315,892; Sept. 9; v. 266; p. 268.
- Wilson, Joseph R. (See Gilman and Wilson.)
- Wilson, Julius V., High Point, N. C. Article of furniture. No. 1,323,563; Dec. 2; v. 269; p. 64.
- Wilson, Lydell L., East Randolph, N. Y. Railway-tie. No. 1,293,598; Feb. 4; v. 259; p. 145.
- Wilson, Lydell L., Randolph, N. Y. Bed construction for railways. No. 1,312,427; Aug. 5; v. 265; p. 108.
- Wilson, Martha E. (See Strange, Porter A., assignor.)
- Wilson, Mary, Northcote, Auckland, New Zealand. Baby-comforter. No. 1,298,616; Mar. 25; v. 260; p. 703.
- Wilson, Mary V., Norfolk, Va. Means for killing vegetable and animal life on boat-hulls. No. 1,319,550; Oct. 21; v. 267; p. 447.
- Wilson, Merit E., Watertown, S. D. Valve-operating device. No. 1,324,947; Dec. 16; v. 269; p. 432.
- Wilson, Michael, Brooklyn, N. Y. Window-guard. No. 1,301,889; Apr. 29; v. 261; p. 824.
- Wilson, Michael E., Detroit, Mich. Direction-indicator for automobiles. No. 1,311,257; July 29; v. 264; p. 728.
- Wilson, Neal W., et al. (See Harris, Robert H., assignor.)
- Wilson, Percy. (See Finster and Wilson.)
- Wilson, Ralph A. (See Gagnon, Peter J., Jr., assignor.)
- Wilson, Ray O., and A. D. Sumner, assignors of forty one-hundredths to F. P. Stetson, Los Angeles, Calif. Can-feeding device. No. 1,301,348; Apr. 22; v. 261; p. 690.
- Wilson, Richard, Ecorse, Mich. Wick-raising device for torches. No. 1,326,244; Dec. 30; v. 269; p. 727.
- Wilson, Richard L., Union City, Tenn. Plant-setter. No. 1,298,134; Mar. 25; v. 260; p. 601.
- Wilson, Robert A., Watertown, and A. P. Wilson, assignors to Boston Pencil Pointer Company, Waltham, Mass. Chip-receptacle for pencil-pointers. No. 1,305,855; June 3; v. 263; p. 118.
- Wilson, Robert G., Orndoff, W. Va. Hand bean and corn planter. No. 1,312,817; Aug. 12; v. 265; p. 214.
- Wilson, Roberts & Monroe. (See Barker, George R., assignor.)
- Wilson, Samuel B., Lexington, Ky. Operating attachment for computing-machines. No. 1,314,844; Sept. 2; v. 266; p. 69.
- Wilson, Samuel C., Chicago, Ill. Flag. No. 1,303,623; May 13; v. 262; p. 242.
- Wilson, Scott L., Redding, Iowa. Vehicle-top. No. 1,290,457; Jan. 7; v. 258; p. 108.
- Wilson, Stephen G., Philadelphia, Pa. Broom-head. No. 1,294,739; Feb. 18; v. 259; p. 477.
- Wilson, Sydney. (See Wilson, W. A. and S.)
- Wilson, Thomas F., Cranston, assignor to Apco Manufacturing Company, Providence, R. I. Crank-case support for automobiles. No. 1,290,458; Jan. 7; v. 258; p. 108.
- Wilson, Thomas H. (See James, Parry, and Wilson.)
- Wilson, Thomas H., Bramley, Leeds, England. Stamping-machine for cutting out articles from sheet metal. No. 1,320,189; Oct. 28; v. 267; p. 590.
- Wilson, Thomas R., Alta, Wyo. Trace-carrier. No. 1,300,085; Apr. 8; v. 261; p. 360.
- Wilson, Tom, Chicago, Ill. Drum. No. 1,293,599; Feb. 4; v. 259; p. 145.
- Wilson, Wallace, Philadelphia, Pa. Flat-knitting machine. No. 1,297,626; Mar. 18; v. 260; p. 466.
- Wilson, Walter A. and S., Vancouver, British Columbia, Canada. Street-indicator. No. 1,316,470; Sept. 16; v. 266; p. 390.
- Wilson, Walter G., Farmingham, England. Driving mechanism for heavy mechanically-propelled vehicles. No. 1,306,652; June 10; v. 263; p. 298.
- Wilson, Walter G., Charton, Farmingham, England. Control of transmission mechanism for heavy mechanically-propelled vehicles. No. 1,324,757; Dec. 9; v. 269; p. 335.
- Wilson, Walter J., Petersburg, Ind. Dental articulator. No. 1,322,386; Nov. 18; v. 268; p. 497.
- Wilson, Walter J., Petersburg, Ind. Motor-driven dental articulator. No. 1,322,387; Nov. 18; v. 268; p. 497.
- Wilson, William, Boston, Mass., assignor to Campbell Bosworth Machinery Company, Portland, Me. Sewing-machine. No. 1,312,659; Aug. 12; v. 265; p. 183.
- Wilson, William G., West Brighton, N. Y. Hose-coupling. No. 1,317,535; Sept. 30; v. 266; p. 676.
- Wilson, William G., West New Brighton, assignor of one-half to N. L. Jones, Mariners Harbor, N. Y. Reinforced tie-plate. No. 1,315,893; Sept. 9; v. 266; p. 268.
- Wilson, William H., Tulsa, Okla. Tool. No. 1,303,439; May 13; v. 262; p. 208.



- Wilson, William H., Norbiton, England. Production of high-tension discharges. No. 1,320,300; Oct. 28; v. 267; p. 611.
- Wilson, William L., Zillah, Wash. Can-opener. No. 1,309,503; July 8; v. 264; p. 304.
- Wilson, William M., Emporia, Kans. Journal-box. No. 1,325,387; Dec. 16; v. 269; p. 513.
- Wilson, William N. (See Knight and Wilson, assignors.)
- Wilson, William R., Terre Haute, Ind. Bearing structure. No. 1,299,277; Apr. 1; v. 261; p. 151.
- Wilson, William R., Terre Haute, Ind. Hub structure. No. 1,304,231; May 20; v. 262; p. 391.
- Wilson, William R., assignor of one-half to D. T. Wilson, Union City, Ind. Auxiliary air-inlet device. No. 1,306,987; June 17; v. 263; p. 392.
- Wilson, William W. (See Willard, Wilson, and Wilcox.)
- Wilson, William W. (See Wilson, Elihu C., assignor.)
- Wilson, William W., Los Angeles, Calif. Pump. No. 1,321,174; Nov. 11; v. 268; p. 217.
- Wilson, Wylie G., New York, N. Y. Valve. No. 1,320,433; Nov. 4; v. 268; p. 15.
- Wilson, Wylie G., Elizabeth, N. J. Stuffing-box. No. 1,321,965; Nov. 18; v. 268; p. 417.
- Wilson, Wylie G., Elizabeth, N. J., assignor, by mesne assignments, to Everlasting Valve Company. Machine for mixing and placing concrete and other material. No. 1,290,459; Jan. 7; v. 258; p. 108.
- Wilson, Wylie G., Elizabeth, N. J., assignor, by mesne assignments, to Everlasting Valve Co. Silencer. No. 1,313,971; Aug. 26; v. 265; p. 485.
- Wilson, Wylie G., New York, N. Y., assignor, by mesne assignments, to Everlasting Valve Company. Non-clogging valve. No. 1,314,559; Sept. 2; v. 266; p. 16.
- Wiltbank, Joseph C. (See Bonham, Edwin, assignor.)
- Wilton, C. C. (See Loveless, John M., assignor.)
- Wilton, Carl E., Philadelphia, Pa. Automatic lid-support. No. 1,298,135; Mar. 25; v. 260; p. 601.
- Wilton, Carl E., Philadelphia, Pa. Automatic lid-support. No. 1,303,441; May 13; v. 262; p. 209.
- Wilton, Harry J., Seattle, Wash. Buckle. No. 1,314,290; Aug. 26; v. 265; p. 545.
- Wilts Veneer Company. (See Staley, Harrison L., assignors.)
- Wilts Veneer Company. (See Staley and Simmons, assignors.)
- Wiltshire, James D. (See Frisz and Wiltshire.)
- Wilzin, Arthur. (See Roirant, Emile, assignor.)
- Wilzin, Arthur, St. Ouen, France. Glass-blowing machine. No. 1,292,940; Jan. 28; v. 258; p. 777.
- Wilzin, Arthur, St. Ouen, France. Automatic glass gathering and blowing machine. No. 1,297,981; Mar. 18; v. 260; p. 543.
- Wilzin, Arthur, St. Ouen, France. Manufacture of glass bottles and glass shaping and blowing machine therefor. No. 1,325,388; Dec. 16; v. 269; p. 514.
- Wimmermark, Ernest R. (See Wilde and Wimmermark.)
- Wimperis, Harry E., Goring, England. Director apparatus for use on aircraft. No. 1,313,934; Aug. 26; v. 265; p. 477.
- Wimperis, Harry E., Goring, England. Aerial-navigation instrument. No. 1,315,065; Sept. 2; v. 266; p. 109.
- Winans, Daniel M., Binghamton, N. Y. Vehicle-top support. No. 1,313,772; Aug. 19; v. 265; p. 413.
- Winans, Daniel M., Binghamton, N. Y., assignor to Victor Talking Machine Company, Camden, N. J. Phonograph stop device. (Reissue.) No. 1,471,718; Aug. 19; v. 265; p. 433.
- Winans, Earl W., and A. J. Kinnucan, Detroit, Mich. Wrist-pin lock. No. 1,321,349; Nov. 11; v. 268; p. 251.
- Winans, Milton E., Newark, N. J. Bench-vise. No. 1,296,723; Mar. 11; v. 260; p. 239.
- Winby, Clifford E., St. Helens, England. Locomotive axle-box. No. 1,311,734; July 29; v. 264; p. 817.
- Winch, Charles F., New York, N. Y. Manufacture of hydrocarbon liquids for use in internal-combustion engines. No. 1,304,433; May 20; v. 262; p. 432.
- Winchell, Frank, Waterloo, Iowa. Hydrocarbon-heater for carburetors. No. 1,308,135; July 1; v. 264; p. 24.
- Winchester, Dorsey G., Pruden, Tenn. Trolley-wire clamp. No. 1,309,870; July 15; v. 264; p. 409.
- Winchester, Dorsey G., Pruden, Tenn. Electric conductor support. No. 1,314,724; Sept. 2; v. 266; p. 47.
- Winchester, Franklin E. (See Weller and Winchester.)
- Winchester, Fred E., Lincoln, Neb., assignor of one-third to A. L. Sumption and one-third to F. S. Cramer, Wichita, Kans. Dirigible headlight. No. 1,318,333; Oct. 7; v. 267; p. 129.
- Winchester Repeating Arms Co. (See Blizard, Charles E., assignor.)
- Winchester Repeating Arms Co. (See Burton, Frank F., assignor.)
- Winchester Repeating Arms Co. (See Burton and Louden-sack, assignors.)
- Winchester Repeating Arms Co. (See Gravely, Julian S., assignor.)
- Winchester Repeating Arms Co. (See Jewett, Arthur C., assignor.)
- Winchester Repeating Arms Co. (See Johnson, Gustave A., assignor.)
- Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
- Winchester Repeating Arms Co. (See Johnson and Bli-yard, assignors.)
- Winchester Repeating Arms Co. (See Johnson and Bur-ton, assignors.)
- Winchester Repeating Arms Co. (See Johnson and Hum-iston, assignors.)
- Winchester Repeating Arms Co. (See Mitchell, Albert W., assignor.)
- Winchester Repeating Arms Co. (See Page, Lovell H., assignor.)
- Winchester Repeating Arms Company. (See Palmer, Erik S., assignor.)
- Winchester Repeating Arms Co. (See Pugsley, Edwin, assignor.)
- Winchester Repeating Arms Co. (See Sibley, Edward W., assignor.)
- Winders, David, and A. D. Phares, San Francisco, Cal. Heel-block. No. 1,290,460; Jan. 7; v. 258; p. 108.
- Windeyer, William A., et al. (See Varvel, Sidney L., as-signor.)
- Windibank, Henry, Croydon, assignor to L. Taylor & Co., London, England. Apparatus for the attachment of electric wires to terminals. No. 1,320,594; Nov. 4; v. 268; p. 44.
- Window-Crib Company. (See Lafferty, Robert C., as-signor.)
- Window Glass Machine Company. (See Clark, Henry F., assignor.)
- Window Glass Machine Company. (See Monroe, William L., assignor.)
- Window Glass Machine Company. (See Murphy, John, assignor.)
- Window Glass Machine Company. (See Sweet, John A., assignor.)
- Window Glass Machine Company. (See Waterloo, John, assignor.)
- Window Glass Machine Company. (See Wells, Otis A., assignor.)
- Window Glass Rotary Pot Company. (See Standley, Wil-liam E., assignor.)
- Windsor Foundry and Machine Company. (See McPher-son and Munro, assignors.)
- Wine, William E. (See Cremean and Wine.)
- Wine, William E., Toledo, Ohio. Ventilator for freight-cars. No. 1,298,136; Mar. 25; v. 260; p. 601.
- Wine, William E., Toledo, Ohio. Side bearing. No. 1,298,137; Mar. 25; v. 260; p. 602.
- Wineberg, William J. F., Vancouver, Wash. Ice-chest. No. 1,298,848; Apr. 1; v. 261; p. 54.
- Winegarner, Erasmus M., Salem, Ill. Roller. No. 1,293,600; Feb. 4; v. 259; p. 145.
- Wineman, Lillian H., Devils Lake, N. D. Duplex pen-holder. No. 1,303,442; May 13; v. 262; p. 209.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Lubricating system. No. 1,326,886; Dec. 30; v. 269; p. 843.
- Winer, Andrew A., Ocala, Fla. Electric drop-light. No. 1,313,773; Aug. 19; v. 265; p. 413.
- Winesburg, Oscar S., and I. G. Palmer, Elkhart, Ind. Automatic stick-feeding machine. No. 1,300,540; Apr. 15; v. 261; p. 484.
- Winfrey, John M. (See Headrick and Winfrey.)
- Wing, John F., Maywood, Ill. Spark-gap. No. 1,297,627; Mar. 18; v. 260; p. 467.
- Wing, Luman B., Brooklyn, N. Y. Pneumatic action for automatic playing mechanisms. No. 1,290,461; Jan. 7; v. 258; p. 108.
- Wing, Ross H., Guelph, Ontario, Canada. Dual container with opener therefor. No. 1,298,617; Mar. 25; v. 260; p. 703.
- Wing, Warren, Winn, Mich. Scraper. No. 1,317,059; Sept. 23; v. 266; p. 549.
- Wing, Wun, Santa Barbara, Calif. Trap. No. 1,299,086; Apr. 1; v. 261; p. 108.
- Winger, William W., assignor to Ride E-Z Shock Ab-sorber Company, Wolcott, Ind. Shock-absorber. No. 1,291,331; Jan. 14; v. 258; p. 337.
- Wingert, Martha S., Los Angeles, Calif. Doll. No. 1,304,434; May 20; v. 262; p. 432.
- Winget, Jasper S., York, Pa. Cigar-bunching machine. No. 1,296,724; Mar. 11; v. 260; p. 240.
- Winget, Jasper S., York, Pa. Cigar-bunching machine. No. 1,321,692; Nov. 11; v. 268; p. 315.
- Wingfield, Bernard R., West Drayton, England. Power-transmission toothed gearing. No. 1,306,653; June 10; v. 263; p. 299.
- Wingfield, Bernard R., West Drayton, England. Thrust or collar bearing. No. 1,325,459; Dec. 16; v. 269; p. 526.
- Wingire, Ernest C., Minneapolis, Minn., assignor of one-half to P. J. N. Miller, Miller, S. D. Self-anchoring windlass. No. 1,307,359; June 24; v. 263; p. 499.
- Wingquist, Sven G., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-bearing. No. 1,307,799; June 24; v. 263; p. 573.
- Winholt, Einar A., Springfield, Ill. Oiling device. No. 1,307,889; June 24; v. 263; p. 589.
- Winkel, Herbert, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing dialkylidaryl-ureas. No. 1,307,570; June 24; v. 263; p. 532.



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- Winkelman, William, assignor of one-half to A. G. Buchmann, Los Angeles, Calif. Ore-treating kiln. No. 1,319,939; Oct. 28; v. 267; p. 544.
- Winkler, Carl, Berne, Switzerland. Device for taking printed sheets from impression-cylinders of printing-machines. No. 1,291,665; Jan. 14; v. 258; p. 417.
- Winkler, Carl, Berne, Switzerland. Cylinder flat-form printing-machine. No. 1,295,661; Feb. 25; v. 259; p. 714.
- Winkler, Carl, Berne, Switzerland. Mold for stereotype-plates and the like. No. 1,313,774; Aug. 19; v. 265; p. 413.
- Winkler, Carl, Berne, Switzerland. Machine for trimming Stereotype-plates. No. 1,313,775; Aug. 19; v. 265; p. 413.
- Winkler, Carl, Berne, Switzerland. Impression-cylinder for printing-machines. No. 1,314,452; Aug. 26; v. 265; p. 510.
- Winkler, Carl, Berne, Switzerland. Printing-machine having oscillating printing-cylinders. No. 1,319,198; Oct. 21; v. 267; p. 381.
- Winkler, Carl, Berne, Switzerland. Producing trimmed stereotype-plates. No. 1,318,942; Oct. 14; v. 267; p. 306.
- Winkler, Carl, Berne, Switzerland. Machine for shaping printing-plates. No. 1,320,301; Oct. 28; v. 267; p. 611.
- Winkler, Carl, Berne, Switzerland. Cylinder flat-form printing-machine. No. 1,322,472; Nov. 18; v. 268; p. 513.
- Winkler, Charles O. (See Toettcher and Winkler.)
- Winkler, Herman W., Columbus, Ohio. Safety bead device. No. 1,315,753; Sept. 9; v. 266; p. 242.
- Winkler, Julius, Buffalo, N. Y. Vehicle-body. No. 1,322,666; Nov. 25; v. 268; p. 601.
- Winkley, Erastus E. (See Rueter and Winkley.)
- Winkley, Erastus E., Lynn, Mass. Carbureter. No. 1,300,208; Apr. 8; v. 261; p. 387.
- Winkley, Erastus E., Lynn, Mass. Bottle handling and testing mechanism. No. 1,316,549; Sept. 16; v. 266; p. 407.
- Winkley, Erastus E., Lynn, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grading-machine. No. 1,294,740; Feb. 18; v. 259; p. 477.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grading pieces of material for variations in color. No. 1,294,741; Feb. 18; v. 259; p. 478.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. No. 1,295,945; Mar. 4; v. 260; p. 28.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Automatic shoe-machine. No. 1,310,463; July 22; v. 264; p. 548.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Automatically-controlled shoe-machine. No. 1,310,491; July 22; v. 264; p. 553.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. No. 1,313,148; Aug. 12; v. 265; p. 279.
- Winkley, Frank D., Madison, Wis. Lubricating system. (Reissue.) No. 14,667; June 10; v. 263; p. 306.
- Winn, Frank B., Haskell, Tex. Rotary engine. No. 1,320,953; Nov. 4; v. 268; p. 112.
- Winn, Sidney B., assignor to Lapeer Tractor-Truck Co., Lapeer, Mich. Trailer attachment for vehicles. No. 1,316,660; Sept. 23; v. 266; p. 476.
- Winn, Sidney B., assignor to Lapeer Tractor-Truck Co., Lapeer, Mich. Trailer. No. 1,316,661; Sept. 23; v. 266; p. 476.
- Winn, Warner A., assignor to W. S. Baldwin, Clarksville, Tenn. Feed-bin for animals. No. 1,324,532; Dec. 9; v. 269; p. 293.
- Winn, William E., Pittsburgh, Pa. Pneumatic system for cleaning coal or ore. No. 1,295,248; Feb. 25; v. 259; p. 618.
- Winne, Harry A., assignor to General Electric Company, Schenectady, N. Y. Electric-furnace-control apparatus. No. 1,310,109; July 15; v. 264; p. 452.
- Winnegrad, Morris, New York, N. Y. Lady's garment. No. 1,309,269; July 8; v. 264; p. 261.
- Winslow, Alexander, Winona, Minn. Phonograph. No. 1,318,193; Oct. 7; v. 267; p. 102.
- Winslow Brothers Company, The. (See Winslow, Francis A., assignor.)
- Winslow, David H., Raleigh, N. C. Road-scraper. No. 1,297,430; Mar. 18; v. 260; p. 425.
- Winslow, F. N. (See Hilliard, Harry D. F., assignor.)
- Winslow, Francis A., assignor to The Winslow Brothers Company, Chicago, Ill. Window-adjuster. No. 1,292,978; Jan. 28; v. 258; p. 786.
- Winslow, Francis A., assignor to The Winslow Brothers Company, Chicago, Ill. Window. No. 1,303,752; May 13; v. 262; p. 266.
- Winslow, Marlor H., Terre Haute, Ind. Type-recording weighing-beam for scales. No. 1,290,821; Jan. 7; v. 258; p. 194.
- Winslow, Sidney W., Jr., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole for use in the manufacture of boots and shoes. No. 1,296,894; Mar. 11; v. 260; p. 280.
- Winslow, William H., River Forest, assignor of one-half to C. A. Brown, Hinsdale, Ill. Carburation. No. 1,312,660; Aug. 12; v. 265; p. 183.
- Winson, William, Milford, England. Steam-trap. No. 1,307,288; June 17; v. 263; p. 447.
- Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,290,822; Jan. 7; v. 258; p. 195.
- Winston, Overton, Minneapolis, Minn. Headlight. No. 1,312,715; Aug. 12; v. 265; p. 193.
- Winston, Overton, Minneapolis, Minn. Headlight. No. 1,314,034; Aug. 26; v. 265; p. 496.
- Winston, Overton, Minneapolis, Minn. Headlight. No. 1,319,822; Oct. 28; v. 267; p. 522.
- Winston, Overton, Minneapolis, Minn. Headlight. No. 1,319,823; Oct. 28; v. 267; p. 522.
- Winston, Overton, Minneapolis, Minn. Headlight. No. 1,319,824; Oct. 28; v. 267; p. 522.
- Winston, William E., et al. (See Dickenson, Robert C., assignor.)
- Winter, Anna K., Brooklyn, N. Y. Car-door safety device. No. 1,300,318; Apr. 15; v. 261; p. 437.
- Winter, Anna K., New York, N. Y. Car-door safety device. No. 1,300,319; Apr. 15; v. 261; p. 437.
- Winter, Anna K., New York, N. Y. Car-door-switch control. No. 1,300,320; Apr. 15; v. 261; p. 437.
- Winter, Anna K., New York, N. Y. Safe-door trap. No. 1,321,409; Nov. 11; v. 268; p. 263.
- Winter, Charles C., Pittsburgh, Pa. Rule-holder. No. 1,321,175; Nov. 11; v. 268; p. 217.
- Winter, Courtney P., assignor, by mesne assignments, to Japanese Tissue Mills, Holyoke, Mass. Package. No. 1,302,116; Apr. 29; v. 261; p. 866.
- Winter, Courtney P., New Brunswick, N. J., assignor to Japanese Tissue Mills, Holyoke, Mass. Dispensing-fixture. No. 1,302,117; Apr. 29; v. 261; p. 867.
- Winter, Daniel B. (See Parker and Winter.)
- Winter, George J., and C. S. Diebolt, Buffalo, N. Y. Resilient shoe. No. 1,314,997; Sept. 2; v. 266; p. 96.
- Winter, Henry W., Hennessey, Okla. Harrow-dump. No. 1,297,955; Mar. 18; v. 260; p. 537.
- Winter, Henry W., Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stamping-machine. No. 1,292,201; Jan. 21; v. 258; p. 581.
- Winter, Henry W., Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Positioning device. No. 1,294,012; Feb. 11; v. 259; p. 273.
- Winter, Henry W., Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stamping or embossing machine. No. 1,301,890; Apr. 29; v. 261; p. 824.
- Winter, Henry W., deceased; M. E. Adams, administratrix, Methuen, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Splitting-machine. No. 1,321,176; Nov. 11; v. 268; p. 217.
- Winter, Henry W., Methuen, and E. W. Smith, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-preparing machine. No. 1,292,979; Jan. 28; v. 258; p. 786.
- Winter, Stephen, Bridgeport, Conn. Skee or snow-shoe. No. 1,317,770; Oct. 7; v. 267; p. 21.
- Winter, William E., Williamsport, Pa. Furniture. No. 1,305,856; June 3; v. 263; p. 118.
- Winterbotham, Joseph E., Winnetka, Ill. Damper-control means. No. 1,296,249; Mar. 4; v. 260; p. 99.
- Winterbourne, Edwin M., Trinidad, Colo. Kitchen work-stool. No. 1,319,258; Oct. 21; v. 267; p. 392.
- Winterhalter, Fredrick and F. T. Bayonne, N. J. Paper-roll rack. No. 1,299,087; Apr. 1; v. 261; p. 108.
- Winterhalter, Fredrick T. (See Winterhalter, Fredrick and F. T.)
- Winternheimer, Edward H., Evansville, Ind. Trace-fastening. No. 1,293,282; Feb. 4; v. 259; p. 72.
- Winterhoff, Herman E., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Musical instrument. No. 1,304,435; May 20; v. 262; p. 432.
- Wintermute, Milton W., New York, N. Y. Detachable leaf for sewing-machines. No. 1,324,709; Dec. 9; v. 269; p. 326.
- Winters, Alexander F. (See Proudft, Edwards, and Winters.)
- Winters, Alexander F. (See Smith, Nicholas A., assignor.)
- Winters, Alexander F., Grand Rapids, Mich. Latch. No. 1,292,552; Jan. 28; v. 258; p. 685.
- Winters, Alexander F., Grand Rapids, Mich. Latch. No. 1,292,553; Jan. 28; v. 258; p. 686.
- Winters, Conrad A., Anaconda, Mont. Means for thawing out sewers. No. 1,292,941; Jan. 28; v. 258; p. 777.
- Winters, Joseph P., East Liverpool, Ohio. Metal-bar-cutting machine. No. 1,318,249; Oct. 7; v. 267; p. 113.
- Winton, Alexander, Lakewood, Ohio. Internal-combustion motor. No. 1,293,601; Feb. 4; v. 259; p. 145.



- Winton, Alexander, Lakewood, Ohio. Fuel and air mixing apparatus for internal-combustion motors. No. 1,316,754; Sept. 23; v. 266; p. 493.
- Winton, Alexander, Lakewood, Ohio. Thrust-bearing structure. No. 1,320,030; Oct. 28; v. 267; p. 561.
- Winton, Alexander, Lakewood, Ohio. Valve structure for internal-combustion motors. No. 1,321,580; Nov. 11; v. 268; p. 294.
- Winton, Alexander, Lakewood, assignor to The Winton Gas Engine & Manufacturing Company, Cleveland, Ohio. Air-supply for internal-combustion motors. No. 1,296,030; Mar. 4; v. 260; p. 49.
- Winton, Alexander, Lakewood, assignor to The Winton Gas Engine & Manufacturing Company, Cleveland, Ohio. Internal-combustion motor. No. 1,296,147; Mar. 4; v. 260; p. 77.
- Winton, Alexander, Lakewood, assignor to The Winton Gas Engine & Manufacturing Company, Cleveland, Ohio. Internal-combustion motor. No. 1,321,693; Nov. 11; v. 268; p. 316.
- Winton Company, The. (See Thieme, William H., assignor.)
- Winton Gas Engine & Manufacturing Company, The. (See Winton, Alexander, assignor.)
- Wintrich, Maximilian A., Chicago, Ill. Drum. No. 1,290,823; Jan. 7; v. 258; p. 195.
- Wintsch, Max T. (See Lowell and Wintsch.)
- Wintz, Hermann. (See Seitz and Wintz.)
- Winzeler, John W., Peoria, Ill. Cot. No. 1,316,662; Sept. 23; v. 266; p. 476.
- Winzeler, Marie, Mason City, Ill. Clothes-rack. No. 1,318,250; Oct. 7; v. 267; p. 114.
- Wire Goods Company. (See Green, Irving A., assignor.)
- Wire Goods Company, The. (See Thurston, Robert J., assignor.)
- Wire Wheel Corporation of America. (See Ash, Charles S., assignor.)
- Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)
- Wire Wheel Corporation of America. (See Molyneux, George E., assignor.)
- Wire Wheel Corporation of America. (See Pugh, John V., assignor.)
- Wireback, Joseph F., Pittsburgh, Pa. Artificial-limb lathe. No. 1,291,332; Jan. 14; v. 258; p. 338.
- Wireback, Joseph F., Pittsburgh, Pa. Positive or master cast for the reproduction of negative or socketed artificial limbs. No. 1,310,937; July 22; v. 264; p. 635.
- Wirebounds Corporation. (See Bauwens, Seraphine F., assignor.) (Reissue.)
- Wirebounds Corporation. (See Greenstreet, Jason H., assignor.)
- Wirebounds Patents Company. (See Babcock, Guilford C., assignor.)
- Wirebounds Patents Company. (See Babcock, Oliver M., assignor.)
- Wirebounds Patents Company. (See Bauwens, Seraphine F., assignor.)
- Wirebounds Patents Company. (See Miller, Julius J., assignor.)
- Wirebounds Patents Company. (See Thompson, Osceola, C., assignor.)
- Wireless Hinge Manufacturing Company, The. (See Berry, George W., assignor.)
- Wireless Specialty Apparatus Company. (See Pickard, Greenleaf W., assignor.)
- Wirfs, Edward J., St. Louis, Mo. Door-fastener. No. 1,307,229; June 17; v. 263; p. 436.
- Wirt, Charles, Philadelphia, Pa. Electric-lighting apparatus. No. 1,314,295; Aug. 26; v. 265; p. 546.
- Wirt, Charles, Philadelphia, Pa. Electric-lighting apparatus. No. 1,321,864; Nov. 18; v. 268; p. 399.
- Wirt, Joe W., Chicago, Ill. Card-index holder. No. 1,297,522; Mar. 18; v. 260; p. 444.
- Wirt, John B. (See Swigert, Joseph O., assignor.)
- Wirt, Reuben D., Philadelphia, Pa. Knockdown reel. No. 1,291,333; Jan. 14; v. 258; p. 338.
- Wirt, Reuben D., Philadelphia, Pa. Wire-reel. No. 1,302,262; Apr. 29; v. 261; p. 894.
- Wirth, Carl, Rochester, N. Y. Pump. No. 1,307,071; June 17; v. 263; p. 408.
- Wirth-Frey, Elias, Aarau, Switzerland. Apparatus for suppressing the formation of froth or scum when boiling liquids. No. 1,316,947; Sept. 23; v. 266; p. 528.
- Wirtz, Luis, Edgbaston, Birmingham, England. Chain. No. 1,306,936; June 17; v. 263; p. 383.
- Wirz, August H., Moylan, Pa. Bottle-stopper. No. 1,308,972; July 8; v. 264; p. 205.
- Wisch, Walter J., et al. (See Norwood, Harry G., assignor.)
- Wisconsin Chair Company, The. (See Hansen, Oswald H., assignor.)
- Wisconsin Electric Company. (See Beach, Chester H., assignor.)
- Wise, Charles H. (See Blissell, Charles H., assignor.)
- Wise, David F., Ashland, Ohio. Suspenders. No. 1,302,615; May 6; v. 262; p. 25.
- Wise, Isaac N., Yazoo City, Miss. Self-lubricating spring. No. 1,325,431; Dec. 16; v. 269; p. 521.
- Wise, Ivan H. (See Rider, Granville S., assignor.)
- Wise, Leslie M., N. McKeesport, Pa. Generator. No. 1,315,268; Sept. 9; v. 266; p. 155.
- Wise, Maxwell M., Detroit, Mich. Coating metals. No. 1,312,716; Aug. 12; v. 265; p. 194.
- Wise, William F., London, England, assignor, by mesne assignments, to Mills Woven Cartridge Belt Company, Worcester, Mass. Military equipment. No. 1,324,419; Dec. 9; v. 269; p. 271.
- Wiseman, Goodwin W., Waterville, Me. Potato-picker. No. 1,315,693; Sept. 9; v. 266; p. 231.
- Wisler, Oscar H. (See Schupp and Wisler.)
- Wisnant, Oscar H., Rochester, N. Y. Airplane. No. 1,290,857; Jan. 7; v. 258; p. 201.
- Wisner, Clark N., assignor to C. N. Wisner Cotton Picker Company, Incorporated, New Orleans, La. Picker-head. No. 1,322,987; Nov. 25; v. 268; p. 661.
- Wisner, James T., New York, N. Y. Apparatus for forming blocks of concrete. No. 1,307,993; June 24; v. 263; p. 610.
- Wisner, James T., New York, N. Y. Concrete-molding machine. No. 1,323,345; Dec. 2; v. 269; p. 23.
- Wisniewski, Frank, Washington, Pa. Lock. No. 1,297,284; Mar. 11; v. 260; p. 365.
- Wisniewski, Joseph, New Acme, Wyo. Rotary pump. No. 1,319,446; Oct. 21; v. 267; p. 427.
- Wisniewski, William, Flushing, N. Y. Railway-gate. No. 1,319,983; Oct. 28; v. 267; p. 552.
- Wissman, Arthur N., West Haven, Conn. Side car for bicycles. No. 1,300,681; Apr. 15; v. 261; p. 513.
- Wissman, Gilbert M., Washington, D. C. Folding bed. No. 1,305,857; June 3; v. 263; p. 118.
- Wisterman, Joseph W., Galion, Ohio. Box. No. 1,311,149; July 22; v. 264; p. 675.
- Wistner, John E., Crewe, Va. Power-transmission device for motor-vehicles. No. 1,310,268; July 15; v. 264; p. 482.
- Witcombe, Edward J. (See Pym and Witcombe.)
- With, Julius E. B., assignor of one-half to S. V. Peach, Port Townsend, Wash. Fastening device for wall-boards. No. 1,297,523; Mar. 18; v. 260; p. 445.
- Withall, Arthur, Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Sliding-door closing and locking device. No. 1,290,462; Jan. 7; v. 258; p. 109.
- Witham, George S., Jr. (See Witham, George S., Sr., assignor.)
- Witham, George S., Jr., Au Sable Forks, N. Y. Automobile-seat protector. No. 1,295,662; Feb. 25; v. 259; p. 714.
- Witham, George S., Jr., Au Sable Forks, N. Y. Safety-indicator for self-propelled vehicles. No. 1,296,148; Mar. 4; v. 260; p. 77.
- Witham, George S., Sr., assignor of one-half to G. S. Witham, Jr., Hudson Falls, N. Y. Paper-tester. No. 1,298,136; Mar. 25; v. 260; p. 602.
- Witherell, Earl M., Duluth, Minn. Garment. No. 1,321,966; Nov. 18; v. 268; p. 418.
- Witherell, Earl M., assignor of one-fourth to O. I. Johnson and one-half to F. A. Patrick & Company, Duluth, Minn. Garment-drying form. No. 1,302,617; May 6; v. 262; p. 25.
- Witherell, Earl M., assignor of one-half to F. A. Patrick & Company, Duluth, Minn. Fabric drying and shaping device. No. 1,318,470; Oct. 14; v. 267; p. 216.
- Witherow, Harry M., Johnson Creek, Wis. Retractable step. No. 1,313,444; Aug. 19; v. 265; p. 351.
- Witherspoon, Louisindy F., Dill, Okla. Motor-plow. No. 1,322,988; Nov. 25; v. 268; p. 661.
- Withington, Robert W. (See Benner, Henry L., assignor.)
- Withington, Winthrop, Jackson, Mich., assignor to The American Fork & Hoe Company, Cleveland, Ohio. Making strap-ferrules. No. 1,292,202; Jan. 21; v. 258; p. 581.
- Withington, Winthrop, Jackson, Mich., assignor to The American Fork & Hoe Company, Cleveland, Ohio. Making rakes. No. 1,304,436; May 20; v. 262; p. 432.
- Witmer, John M., Lancaster, Pa. Warning-signal. No. 1,302,618; May 6; v. 262; p. 26.
- Witt, Edward, Newport, N. H. Power transmission. No. 1,300,910; Apr. 15; v. 261; p. 563.
- Witt, Peter J., St. Paul, Minn. Automobile-signal. No. 1,290,463; Jan. 7; v. 258; p. 109.
- Witt, Samuel E. (See Williams and Witt.)
- Witt, William F., Chicago, Ill. Means for spraying water. No. 1,311,938; Aug. 5; v. 265; p. 16.
- Witt, William H., Petersburg, Va. Clothespin. No. 1,314,998; Sept. 2; v. 266; p. 96.
- Witt, William H., Petersburg, Va. Cigar-box holder and lid-clamp. No. 1,320,434; Nov. 4; v. 268; p. 15.
- Wittenberg, Mason, Portland, and R. W. King, The Dalles, assignors to Pacific Evaporator Company, Portland, Oreg. Drier. No. 1,295,946; Mar. 4; v. 260; p. 28.
- Witkowski, Friedrich W., Des Moines, Iowa. Turning-signal for automobiles. No. 1,299,088; Apr. 1; v. 261; p. 109.
- Witkowski, Frederick W., Des Moines, Iowa. Toy. No. 1,317,060; Sept. 23; v. 266; p. 549.
- Wittlinger, John J., Detroit, Mich. Power-transmission mechanism. No. 1,305,760; June 3; v. 263; p. 100.
- Wittman, John E., Portland, Oreg. Shawl-collar for garments. No. 1,326,704; Dec. 30; v. 269; p. 813.
- Wittmann, Joseph H., Kansas City, Mo. Tent. No. 1,290,824; Jan. 7; v. 258; p. 195.
- Wittmann, Joseph H., Kansas City, Mo. Camp-toilet. No. 1,306,041; June 10; v. 263; p. 183.



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- Wittmann, Joseph H., Kansas City, Mo. Camp furniture. No. 1,306,042; June 10; v. 263; p. 183.
- Wittrup, Christen, Clifton, Ill. Puzzle. No. 1,294,013; Feb. 11; v. 259; p. 273.
- Wloszek, Frank, Lackawanna, N. Y. Soldier's armor. No. 1,298,618; Mar. 25; v. 260; p. 704.
- Wm. Ayres & Sons. (See Ayres, George R., assignor.)
- Wm. Demuth & Co. (See Whitehouse, John N., assignor.)
- Wodham, William A., Moorehead, Minn. Implement draft and steering means. No. 1,297,628; Mar. 18; v. 260; p. 467.
- Wofford, B. W. J., *et al.* (See Anderson, John L., assignor.)
- Wofford, Bushrod W. J., Italy, Tex. Necktie-tying form. No. 1,300,321; Apr. 15; v. 261; p. 438.
- Wofford, R. P., *et al.* (See Anderson, John L., assignor.)
- Woglom, Howard C., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Collet-chuck. No. 1,302,619; May 6; v. 262; p. 26.
- Wohl, Maurice J., Brooklyn, N. Y., assignor to M. J. Wohl & Company, Inc. Arc-lamp. No. 1,319,825; Oct. 28; v. 267; p. 522.
- Wohlenberg, Walter J., Bozeman, Mont. Fluid-meter. No. 1,303,425; May 13; v. 262; p. 206.
- Wohlenberg, Walter J., Lincoln, Nebr. Elastic-fluid meter. No. 1,303,443; May 13; v. 262; p. 209.
- Wohlgenuth, Jacob J., Chicago, Ill. Tire-retreading press. No. 1,317,848; Oct. 7; v. 267; p. 36.
- Wohlgenuth, Jacob J., Chicago, Ill. Tire-vulcanizing core. No. 1,317,850; Oct. 7; v. 267; p. 37.
- Wohlgenuth, Jacob J., and F. Lilly, assignors to Lafayette Rubber Company, Chicago, Ill. Resilient tire-core. No. 1,307,800; June 24; v. 263; p. 573.
- Wohlgenuth, Jacob J., and L. L. Korach, Chicago, Ill.; said Korach assignor to said Wohlgenuth. Tire molding and vulcanizing press. No. 1,317,849; Oct. 7; v. 267; p. 36.
- Wohlpart, August J. (See Onderdonk and Wohlpart.)
- Wöhr, Gottlob, New York, N. Y. Windmill. No. 1,314,232; Aug. 26; v. 265; p. 534.
- Wojcik, Joseph J., Pulaski, Wis. Grain-measuring and sack-filling device. No. 1,313,149; Aug. 12; v. 265; p. 280.
- Wojtasiewicz, Jozef, and J. Zajac, Chadwicks, N. Y. Shuttie-action for looms. No. 1,322,857; Nov. 25; v. 268; p. 636.
- Woityn, Walenty, New Kensington, Pa. Farmer's truck and plow. No. 1,314,177; Aug. 26; v. 265; p. 523.
- Wolary, Wilbur W., Washington, Iowa. Opera-chair. No. 1,319,551; Oct. 21; v. 267; p. 447.
- Wolcott, Charles, *et al.* (See Randall, Raymond G., assignor.)
- Wolcott, Charles B., Plantsville, Conn. Antiskidding device. No. 1,294,588; Feb. 18; v. 259; p. 442.
- Wolcott, Charles M., New York, N. Y., assignor of three-fourths to S. and I. Myerberg, Baltimore, Md. Double suction-cup. No. 1,298,139; Mar. 25; v. 260; p. 602.
- Wolcott, Darwin S., trustee. (See Hopwood, John M., assignor.)
- Wolcott, Edson R. (See Schmidt and Wolcott.)
- Wolcott, Eugene F., *et al.* (See Randall, Raymond G., assignor.)
- Wolcott, Robeson B., Cleveland, Ohio, assignor to The Chase Companies, Inc., Waterbury, Conn. Incandescent-electric-lamp socket. No. 1,322,989; Nov. 25; v. 268; p. 661.
- Wolcott, William W., Georgetown, Colo. Oil and acid feeding device for flotation processes. No. 1,314,296; Aug. 26; v. 265; p. 547.
- Wolver, Franklin H., assignor to Ideal Roller Co., Chicago, Ill. Vertical casting-machine. No. 1,316,992; Sept. 23; v. 266; p. 536.
- Wolver, Franklin H., assignor to Ideal Roller Co., Chicago, Ill. Stripping-furnace. No. 1,316,993; Sept. 23; v. 266; p. 536.
- Wolver, Franklin H., assignor to Ideal Roller Co., Chicago, Ill. Centrifugal casting-machine. No. 1,317,120; Sept. 23; v. 266; p. 561.
- Wolver, Franklin H., assignor to Ideal Roller Co., Chicago, Ill. Making rollers. No. 1,318,520; Oct. 14; v. 267; p. 225.
- Wolver, Franklin H., and W. J. Price, assignors to Ideal Roller Company, Chicago, Ill. Roller. No. 1,305,330; June 3; v. 263; p. 19.
- Wolf, Albert, Traverse City, Mich. Folding tooth-brush. No. 1,307,530; June 24; v. 263; p. 525.
- Wolf, Andrew. (See Maloney, Edward J., assignor.)
- Wolf Company, The. (See Lemaster, Maurice D., assignor.)
- Wolf Company, The. (See Scully, Francis X., assignor.)
- Wolf, Elmer E., Springfield, Ohio, assignor to American Automatic Scale Company, Chicago, Ill. Weight-recording apparatus. No. 1,295,406; Feb. 25; v. 259; p. 654.
- Wolf, Fred W. (See Alfreds, Torris H., assignor.)
- Wolf, Fred W., Chicago, Ill. Compressor. No. 1,295,947; Mar. 4; v. 260; p. 29.
- Wolf, Fred W., Chicago, Ill. Compressor. No. 1,295,948; Mar. 4; v. 260; p. 29.
- Wolf, Fred W., Chicago, Ill. Expansion unit for refrigerating apparatus. No. 1,324,868; Dec. 16; v. 269; p. 417.
- Wolf, Fred W., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Process of and apparatus for refrigeration. No. 1,291,334; Jan. 14; v. 258; p. 338.
- Wolf, Fred W., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Refrigerating apparatus. No. 1,314,233; Aug. 26; v. 265; p. 534.
- Wolf, Fred W., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Expansion-valve. No. 1,314,234; Aug. 26; v. 265; p. 534.
- Wolf, George D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone-switchboard. No. 1,321,870; Nov. 18; v. 268; p. 400.
- Wolf, Jacob D., London, England. Ore-concentrating apparatus. No. 1,310,492; July 22; v. 264; p. 554.
- Wolf, John, Topeka, Kans. Lock. No. 1,310,774; July 22; v. 264; p. 606.
- Wolf, John, Topeka, Kans. Lock. No. 1,310,775; July 22; v. 264; p. 606.
- Wolf, John, Topeka, Kans. Lock. No. 1,311,258; July 29; v. 264; p. 728.
- Wolf, John, Topeka, Kans. Lock. No. 1,312,601; Aug. 12; v. 265; p. 172.
- Wolf, John, Topeka, Kans. Trunk. No. 1,314,035; Aug. 26; v. 265; p. 497.
- Wolf, Leon. (See Ryback and Wolf.)
- Wolf, Leon, New York, and I. Ryback, Brooklyn, N. Y.; said Wolf assignor to W. Wolf. Apparatus for inserting hat-linings. No. 1,299,089; Apr. 1; v. 261; p. 109.
- Wolf, Melanie, New York, N. Y. Soap-cover and soap-applying device. No. 1,292,982; Jan. 28; v. 258; p. 787.
- Wolf, William. (See Wolf and Ryback, assignors.)
- Wolf, William, *et al.* (See Aylsworth, Howard G., assignor.)
- Wolfeard, Merl R., Cambridge, Mass. Self-stabilizing aeroplane structure. No. 1,301,083; Apr. 15; v. 261; p. 602.
- Wolfeard, Merl R., Cambridge, Mass. Rotary hydroplane. No. 1,309,928; July 15; v. 264; p. 421.
- Wolfeard, Merl R., Cambridge, assignor of one-fourth to L. A. Ames, Spencer, and one-fourth to E. E. Kent, Newton, Mass. Internal-combustion engine. No. 1,305,577; June 3; v. 263; p. 66.
- Wolfeard, Merl R., Cambridge, assignor of one-fourth to L. A. Ames, Spencer, and one-fourth to E. E. Kent, Newton, Mass. Internal-combustion engine. No. 1,305,578; June 3; v. 263; p. 66.
- Wolfeard, Merl R., Cambridge, assignor of one-fourth to L. A. Ames, Spencer, and one-fourth to E. E. Kent, Newton, Mass. Combustion and thermodynamic conversion within engines. No. 1,305,579; June 3; v. 263; p. 67.
- Wolfeard, Merl R., Cambridge, assignor of one-fourth to L. A. Ames, Spencer, and one-fourth to E. E. Kent, Newton, Mass. Internal-combustion engine. No. 1,305,580; June 3; v. 263; p. 67.
- Wolfeard, Merl R., Cambridge, assignor of one-fourth to L. A. Ames, Spencer, and one-fourth to E. E. Kent, Newton, Mass. Internal-combustion engine. No. 1,305,581; June 3; v. 263; p. 68.
- Wolfe, Arthur H., Massena, N. Y. Pipe-nipple. No. 1,326,626; Dec. 30; v. 269; p. 799.
- Wolfe, Chauncey C., assignor of one-half to A. A. Bornemann, Morrison, Wis. Demountable-rim structure for vehicle-wheels. No. 1,293,283; Feb. 4; v. 259; p. 72.
- Wolfe, Clinton M. (See Jones, Silas R., assignor.)
- Wolfe, Patrick R., New York, N. Y. Powder-distributing device. No. 1,323,346; Dec. 2; v. 269; p. 23.
- Wolfe, Samuel C., Angola, Ind. Wind-shield cleaner. No. 1,290,464; Jan. 7; v. 258; p. 109.
- Wolfe, Thomas L., Atlanta, Ga. Molding apparatus for forming concrete structures. No. 1,292,203; Jan. 21; v. 258; p. 581.
- Wolfe, William, Cresson, Pa. Pump-valve. No. 1,293,284; Feb. 4; v. 259; p. 72.
- Wolfe, William, Somerville, Mass. Track and hanger for sliding doors. No. 1,294,589; Feb. 18; v. 259; p. 443.
- Wolfermann, Guido, St. Louis, Mo. Bottle-stopper. No. 1,324,869; Dec. 16; v. 269; p. 417.
- Wolfermann, Guido, and E. Sohn, St. Louis, Mo. Binder and protector for picture-films. No. 1,319,552; Oct. 21; v. 267; p. 447.
- Wolffers, Marc, Brussels, Belgium. Incrusting and impressing various materials. No. 1,316,994; Sept. 23; v. 266; p. 537.
- Wolffert, Maurice. (See Glasel, Charles J., assignor.)
- Wolff, Arthur, New York, N. Y. Catamenial napkin. No. 1,322,276; Nov. 18; v. 268; p. 476.
- Wolff, Charles H. (See Weder and Wolff.)
- Wolff, Edward L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Metal-casting apparatus. No. 1,294,742; Feb. 18; v. 259; p. 478.
- Wolff, Frank W. (See Bonsall and Wolff.)
- Wolff, Frank W., assignor to P. H. Murphy Company, Parnassus, Pa. Car-roof. No. 1,315,807; Sept. 9; v. 266; p. 252.
- Wolff, Franklyn J., assignor to L. Wolff Manufacturing Company, Chicago, Ill. Flushing device. No. 1,298,849; Apr. 1; v. 261; p. 54.



- Wolff, Franklyn J., assignor to L. Wolff Manufacturing Company, Chicago, Ill. Valve. No. 1,318,521; Oct. 14; v. 267; p. 226.
- Wolff, Frederick J., Belleville, N. J. Baker's machinery. No. 1,319,370; Oct. 21; v. 267; p. 413.
- Wolff, Frederick W., London, England. Apparatus for the extraction of oils and resins from hops. No. 1,319,984; Oct. 28; v. 267; p. 552.
- Wolff, Jacob. (See Crupain, Morris, assignor.)
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine. No. 1,321,177; Nov. 11; v. 268; p. 218.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine. No. 1,321,178; Nov. 11; v. 268; p. 218.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Speed-regulator for talking-machines. No. 1,321,179; Nov. 11; v. 268; p. 218.
- Wolff, Karl G., and H. Graf, Newark, N. J. Pulley. No. 1,324,948; Dec. 16; v. 269; p. 432.
- Wolff, Rudolf, assignor to The Crawford Manufacturing Company, New Brunswick, N. J. Stop-motion. No. 1,305,045; May 27; v. 262; p. 585.
- Wolff, Wallace B. (See Hood and Wolff.)
- Wolff, Wallace B., Chicago, Ill., and E. K. Hood, Indianapolis, Ind., assignors to American Slicing Machine Co., Chicago, Ill. Slicing-machine. No. 1,311,479; July 29; v. 264; p. 770.
- Wolff, Wallace B., Chicago, Ill., and E. K. Hood, Indianapolis, Ind., assignors to American Slicing Machine Co., Chicago, Ill. Slice-stacking device for slicing-machines. No. 1,311,480; July 29; v. 264; p. 770.
- Wolff, Willy, assignor to Radium Chemical Company, Milwaukee, Wis. Developer for dyed fabrics. No. 1,311,150; July 22; v. 264; p. 675.
- Wolffgram, Ludwig, Erie, Pa. Coupling. No. 1,300,541; Apr. 15; v. 261; p. 485.
- Wolffgram, Ludwig, Erie, Pa. Clutch. No. 1,304,138; May 20; v. 262; p. 374.
- Wolffgram, Ludwig, Erie, Pa. Tube, pipe, and rod drawing apparatus. No. 1,322,858; Nov. 25; v. 268; p. 636.
- Wolffsohn, Lionel, (now by judicial change of name Lionel M. Woolson,) Hoboken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Ignition apparatus for internal-combustion engines. No. 1,297,956; Mar. 18; v. 260; p. 537.
- Wolffsohn, Lionel M., Hoboken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electrical cut-out. No. 1,310,110; July 15; v. 264; p. 453.
- Wolford, David B., Nolin, Oreg. Weeder. No. 1,322,742; Nov. 25; v. 268; p. 615.
- Wolfson, Isadore D., New York, N. Y., assignor to I. D. Wolfson, Inc. Necktie. No. 1,300,682; Apr. 15; v. 261; p. 513.
- Wolfson, Isadore D., New York, N. Y. Necktie and making same. No. 1,300,683; Apr. 15; v. 261; p. 513.
- Wolfson, Isadore D., New York, N. Y. Making neckties. No. 1,300,684; Apr. 15; v. 261; p. 513.
- Wolgamott, Charles G. (See Thornberry and Wolgamott.)
- Wolgamott, Samuel B., assignor of one-half to L. F. Grimsley, Stockton, Calif. Engine-cylinder. No. 1,306,843; June 17; v. 263; p. 366.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,292,554; Jan. 28; v. 258; p. 686.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,292,555; Jan. 28; v. 258; p. 686.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Holding means or rail-anchors. No. 1,295,663; Feb. 25; v. 259; p. 714.
- Wollaston, Thomas R., Manchester, England. Gas-producer. No. 1,303,527; May 13; v. 262; p. 224.
- Wollaston, Thomas R., Manchester, England. Gas-producer. No. 1,315,269; Sept. 9; v. 266; p. 155.
- Wollenberg, Harry L., and C. A. Bigelow, assignors to Aetna Explosives Company, Inc., New York, N. Y. Purifying nitro-aromatic compounds. No. 1,297,524; Mar. 18; v. 260; p. 445.
- Wollesen, Hermann. (See Beckman and Wollesen.)
- Wollesen, Jacob F., Lockwood, Calif. Variable-speed transmission. No. 1,313,036; Aug. 12; v. 265; p. 257.
- Wollin, Victor E., Minneapolis, Minn. Fire-escape. No. 1,300,086; Apr. 8; v. 261; p. 360.
- Woloszyn, Alex., Chicago, Ill. Hygrometer. No. 1,317,189; Sept. 30; v. 266; p. 609.
- Wolpe, George M., Indianapolis, Ind. Dust-collector. No. 1,315,066; Sept. 2; v. 266; p. 109.
- Wolpert, William H. (See Glyn, Wolpert, and Hanzel.)
- Wolter, Friedrich W., Cuero, Tex. Planter attachment. No. 1,322,859; Nov. 25; v. 268; p. 636.
- Wolvyn, Lee H. (See Parker, Martin, assignor.)
- Wommer, Frederic, assignor of one-half to J. J. Barclay, Minneapolis, Minn. Gas-engine. No. 1,295,949; Mar. 4; v. 260; p. 30.
- Wonder, Enos O., Altoona, Kans. Label-holder. No. 1,313,659; Aug. 19; v. 265; p. 391.
- Wonder Specialty Manufacturing Company, The. (See Fowler, Benjamin F., assignor.)
- Wondra, Frank A., Schenectady, N. Y. Torpedo-launching apparatus for flying-machines. No. 1,302,747; May 6; v. 262; p. 50.
- Wondra, Franz, Schenectady, N. Y. Internal-combustion turbine. No. 1,298,430; Mar. 25; v. 260; p. 663.
- Wones, Raymond O., Maplewood, Ohio. Manifold-lock. No. 1,308,154; July 1; v. 264; p. 27.
- Wood, Albert B., et al. (See Earl, George G., assignor.)
- Wood, Alexander H., Kildav, Ky., assignor to Wood Equipment Company, Chicago, Ill. Car-tipple. No. 1,299,527; Apr. 8; v. 261; p. 235.
- Wood, Alexander H., Kildav, Ky., assignor to Wood Equipment Company, Chicago, Ill. System for storing bulk materials. No. 1,300,800; Apr. 15; v. 261; p. 539.
- Wood, Alexander H., Kildav, Ky., assignor to Wood Equipment Company, Chicago, Ill. Railway-dump. No. 1,325,181; Dec. 16; v. 269; p. 476.
- Wood, Alexander H., Kildav, Ky., assignor to Wood Equipment Company, Chicago, Ill. Railway-dump. No. 1,325,182; Dec. 16; v. 269; p. 476.
- Wood, Alexander H., Kildav, Ky., assignor to Wood Equipment Company, Chicago, Ill. Railway-dump. No. 1,325,183; Dec. 16; v. 269; p. 476.
- Wood, Alexander H., Petros, Tenn., assignor to Wood Equipment Company. Car hoisting and dumping apparatus. No. 1,301,208; Apr. 22; v. 261; p. 662.
- Wood, Alfred J., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and computing machine. No. 1,299,646; Apr. 8; v. 261; p. 262.
- Wood, Alfred P., Kenosha, Wis. Catch-basin. No. 1,315,894; Sept. 9; v. 266; p. 269.
- Wood, Alfred R. (See Allen and Wood.)
- Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread-cutting mechanism for sewing-machines. No. 1,291,335; Jan. 14; v. 258; p. 339.
- Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread-cutting mechanism for sewing-machines. No. 1,325,707; Dec. 23; v. 269; p. 590.
- Wood, Andrew J., Bakersfield, Calif. Train-order deliverer. No. 1,300,911; Apr. 15; v. 261; p. 563.
- Wood, Arthur G., Rockville, Ind. Automatic coupling. No. 1,306,654; June 10; v. 263; p. 299.
- Wood, Charles F., New York, N. Y. Continuous furnace and regulating atmospheric condition in furnaces. No. 1,297,629; Mar. 18; v. 260; p. 467.
- Wood, Clarence D., Ashland, Oreg. Variable-speed gearing. No. 1,322,388; Nov. 18; v. 268; p. 497.
- Wood, Clarence G., and J. M. Wilson, Muncie, Ind. Spot-facing machine. No. 1,318,039; Oct. 7; v. 267; p. 72.
- Wood, Clarence P. (See Langley and Wood.)
- Wood, Clarence P., assignor of one-half to C. J. Langley, Philadelphia, Pa. Automatic gas-vapor primer. No. 1,323,665; Dec. 2; v. 269; p. 82.
- Wood, Clyde A., Aspinwall, Pa. Attaching device. No. 1,291,666; Jan. 14; v. 258; p. 418.
- Wood, David A., Pittsburgh, Pa. Stoking and combustion apparatus. No. 1,293,285; Feb. 4; v. 259; p. 73.
- Wood, Edward C. (See Perkins and Wood.)
- Wood, Edward N., Chicago, Ill. Wall construction. No. 1,307,767; June 24; v. 263; p. 567.
- Wood, Edward S., Cinnaminson, N. J. Pen. No. 1,305,046; May 27; v. 262; p. 585.
- Wood Equipment Company. (See Wood, Alexander H., assignor.)
- Wood, Frank S., Lumberville, Pa. Music-leaf turner. No. 1,296,725; Mar. 11; v. 260; p. 240.
- Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Inc., New York, N. Y. Gun-fire-control apparatus. No. 1,312,602; Aug. 12; v. 265; p. 172.
- Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Inc., New York, N. Y. Signaling apparatus. No. 1,312,603; Aug. 12; v. 265; p. 172.
- Wood, Fred, Taunton, Mass. Roving-creel. No. 1,324,710; Dec. 9; v. 269; p. 326.
- Wood, Fred E., Sanger, Calif. Kit for plate-holders. No. 1,297,957; Mar. 18; v. 260; p. 538.
- Wood, Frederick P., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Proofing materials. No. 1,310,818; July 22; v. 264; p. 615.
- Wood, Frederick W., Baltimore, Md. Method of and apparatus for reinforcing retorts. No. 1,294,745; Feb. 18; v. 259; p. 478.
- Wood, Garfield A., Detroit, Mich. Truck-body construction. No. 1,292,204; Jan. 21; v. 258; p. 581.
- Wood, Garfield A., Detroit, Mich. Truck-body-tilting mechanism. No. 1,325,662; Dec. 23; v. 269; p. 582.
- Wood, Garfield A., Detroit, Mich. Truck-body-tilting mechanism. No. 1,325,663; Dec. 23; v. 269; p. 583.
- Wood, Garfield A., Algonac, Mich. Driving mechanism for truck-body hoists. No. 1,325,661; Dec. 23; v. 269; p. 582.
- Wood, George B., Duluth, assignor of one-half to W. C. Wood, Minneapolis, Minn. Repair-patch. No. 1,296,349; Mar. 4; v. 260; p. 121.
- Wood, Gleason, assignor to Waltham Watch Company, Waltham, Mass. Bezel. No. 1,291,336; Jan. 14; v. 258; p. 339.
- Wood, Guy, and E. Reagan, Dilley, Tex. Automobile-lifting grapple. No. 1,320,723; Nov. 4; v. 268; p. 68.
- Wood, Harvey E. (See Lyberger, Albert N., assignor.)



## Alphabetical list of patentees—Continued.

- Wood, Henry A., Kingston, Ontario, Canada. Fuel-saver. No. 1,290,465; Jan. 7; v. 258; p. 110.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Web-renewing device for printing-presses. No. 1,305,429; June 3; v. 263; p. 36.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Melting pump and pot. No. 1,305,430; June 3; v. 263; p. 38.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Web-printing machine. No. 1,307,390; June 24; v. 263; p. 499.
- Wood, Henry A. W., assignor, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Web-controlling and tension device. No. 1,314,178; Aug. 26; v. 265; p. 523.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Folding-rollers. No. 1,318,337; Oct. 7; v. 267; p. 130.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Tensioning-roller for web-presses. No. 1,319,447; Oct. 21; v. 267; p. 428.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Web-renewing device. No. 1,319,448; Oct. 21; v. 267; p. 428.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Delivery-fan. No. 1,325,550; Dec. 23; v. 269; p. 561.
- Wood, Henry A. W., New York, and J. A. Isbell, Middletown, assignors, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Folding and cutting mechanism. No. 1,304,232; May 20; v. 262; p. 391.
- Wood, Henry A. W., New York, and J. A. Isbell, Middletown, assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Quadruple air-brake for rotary presses. No. 1,311,030; July 22; v. 264; p. 653.
- Wood, Henry A. W., New York, and J. A. Isbell, Middletown, assignors, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Tension and register adjusting mechanism for web-rolls. No. 1,325,551; Dec. 23; v. 269; p. 561.
- Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Braking mechanism for rotary presses. No. 1,311,031; July 22; v. 264; p. 653.
- Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors, by mesne assignments, to Wood Newspaper Machinery Corporation, New York, N. Y. Plate-clamping device for printing-plate cylinders. No. 1,321,268; Nov. 11; v. 268; p. 254.
- Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Folding and collecting mechanism. No. 1,321,531; Nov. 11; v. 268; p. 294.
- Wood, James A., *et al.* (See Dodge, James, assignor.)
- Wood, James E. (See Merrill and Wood.)
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Talking-machine. No. 1,304,233; May 20; v. 262; p. 391.
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company. Talking-machine. No. 1,304,234; May 20; v. 262; p. 392.
- Wood, John H., Chicago, Ill., assignor to Osro Chemical Company. Paste calcimine. No. 1,308,136; July 1; v. 264; p. 24.
- Wood, Joseph K., New York, N. Y. Measuring apparatus. No. 1,309,270; July 8; v. 264; p. 261.
- Wood, Kenneth F., *et al.* (See Flick, Lorenz, assignor.)
- Wood, Leander W., Fontanelle, Iowa. Combination acceptance, order, and plural check blank with indexes. No. 1,299,647; Apr. 8; v. 261; p. 263.
- Wood, Leland D. (See Inman, Gilbert H., assignor.)
- Wood, Lorena M., Spokane, assignor of one-half to J. R. Gumm, Kelso, Wash. Apparatus for sterilizing liquids. No. 1,297,525; Mar. 18; v. 260; p. 445.
- Wood, Louis E., Farrell, Pa. Attachment for screw-cutting lathes. No. 1,297,285; Mar. 11; v. 260; p. 365.
- Wood Newspaper Machinery Corporation. (See Harris, John J. B., assignor.)
- Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
- Wood Newspaper Machinery Corporation. (See Wood and Isbell, assignors.)
- Wood Newspaper Machinery Corporation. (See Wood and Nordfors, assignors.)
- Wood, Orlo L., Lansing, Mich. Gage. No. 1,317,061; Sept. 23; v. 266; p. 549.
- Wood, Reginald J. C., and G. E. Armstrong, Los Angeles, Calif. Definite-time-limit relay. No. 1,314,433; Aug. 26; v. 265; p. 582.
- Wood, Rodney J., Dayton, Ohio. Credit-file. No. 1,313,150; Aug. 12; v. 265; p. 280.
- Wood, Samuel, Parkers Landing, assignor of one-third to The Franklin Valveless Engine Co., Franklin, Pa. Sand-screen for pumps. No. 1,310,686; July 22; v. 264; p. 589.
- Wood, Sydney M., Upper Montclair, N. J. Food composition and preparing same. No. 1,311,843; July 29; v. 264; p. 837.
- Wood, Sydney M., Upper Montclair, N. J. Food composition and preparing same. No. 1,311,844; July 29; v. 264; p. 837.
- Wood, Walter B., Downingtown, Pa. Seal. No. 1,315,649; Sept. 9; v. 266; p. 223.
- Wood, Walter D., assignor to Fuel Saving Company, Allentown, Pa. Locomotive-furnace. No. 1,292,205; Jan. 21; v. 258; p. 582.
- Wood, Walter D., assignor to Fuel Saving Company, Allentown, Pa. Pulverized-coal feeder. No. 1,324,366; Dec. 9; v. 269; p. 260.
- Wood, Walter S., Kalamazoo, Mich. Universal joint. No. 1,290,825; Jan. 7; v. 258; p. 195.
- Wood, Wilfred R., London, England. Water-tube boiler. No. 1,300,087; Apr. 8; v. 261; p. 361.
- Wood, William, Birkenhead, England. Punching and the like machine. No. 1,296,895; Mar. 11; v. 260; p. 280.
- Wood, William A., Nashville, Tenn. Tool-carrier. No. 1,326,887; Dec. 30; v. 269; p. 848.
- Wood, William E., Wilmette, Ill. Manufacture of cast-iron pipe. No. 1,323,515; Dec. 2; v. 269; p. 55.
- Wood, William G., San Francisco, assignor of one-half to F. B. McKevitt, Sacramento, Calif. Drag-bucket. No. 1,306,873; June 17; v. 263; p. 372.
- Wood, William G., Berkeley, assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight. No. 1,324,288; Dec. 9; v. 269; p. 245.
- Wood, William H. (See Bickley, John H., assignor.)
- Wood, William H., assignor, by mesne assignments, to The Astrup Company, Cleveland, Ohio. Door-stop. No. 1,303,444; May 13; v. 262; p. 209.
- Wood, Winfield C. (See Wood, George B., assignor.)
- Woodall, William J., assignor to The Williamson Heater Company, Cincinnati, Ohio. Deflector for hot-air registers. No. 1,309,430; July 8; v. 264; p. 291.
- Woodard, Silas H., Scarsdale, N. Y. Hull construction. No. 1,318,712; Oct. 14; v. 267; p. 261.
- Woodard, William E., Lima, Ohio. Exhaust-passage and pipe for locomotive-cylinders. No. 1,325,068; Dec. 16; v. 269; p. 454.
- Woodbridge, Jesse T. (See Mummert and Woodbridge.)
- Woodbridge, Joseph L., Philadelphia, Pa. Means for transmission of power. No. 1,312,604; Aug. 12; v. 265; p. 173.
- Woodbridge, Richard G., Jr. (See Broadbent and Woodbridge.)
- Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making propellant powder. No. 1,312,463; Aug. 5; v. 265; p. 115.
- Woodburn, Oscar P., assignor to Layne & Bowler Company, Memphis, Tenn. Thrust-bearing. No. 1,297,769; Mar. 18; v. 260; p. 498.
- Woodbury, Clifford A., Middletown township, Delaware county, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bursting charge for containers intended to be exploded and forming said charges. No. 1,309,558; July 8; v. 264; p. 315.
- Woodbury, Clifford A., Middletown township, Delaware county, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Refining crude trinitrotoluol and other crude aromatic nitro compounds. No. 1,309,559; July 8; v. 264; p. 315.
- Woodbury, Clifford A., Middletown township, Delaware county, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bursting charge for containers intended to be exploded and forming said charges. No. 1,312,464; Aug. 5; v. 265; p. 115.
- Woodbury, John E., Worcester, Mass. Apparatus for and method of plating with metal. No. 1,291,337; Jan. 14; v. 258; p. 339.
- Woodbury, John E., Worcester, Mass. Printing. No. 1,318,943; Oct. 14; v. 267; p. 306.
- Woodcock, James S., New Lexington, Ohio. Car-wheel construction. No. 1,310,227; July 15; v. 264; p. 474.
- Woodcock, John, assignor to Pratt & Cady Company, Incorporated, Hartford, Conn. Valve-operating device. No. 1,300,685; Apr. 15; v. 261; p. 514.
- Woodcock, Willard J., Brooklyn, N. Y. Piston for internal-combustion engines. No. 1,324,138; Dec. 9; v. 269; p. 216.
- Wooden, Chester A., Lansing, Mich. Nut-lock. No. 1,316,344; Sept. 16; v. 266; p. 367.
- Woodeson, William A., Gateshead, England. Means for distributing actuating-fluid in engines. No. 1,301,025; Apr. 15; v. 261; p. 587.
- Woodfield, George H., assignor to The Toledo Bending Company, Toledo, Ohio. Control means for windows or the like. No. 1,315,447; Sept. 9; v. 266; p. 188.
- Woodford, Joseph C., Oskaloosa, Iowa. Internal-combustion engine. No. 1,320,954; Nov. 4; v. 268; p. 112.
- Woodhead, Daniel, Evanston, Ill. Shade-holder. No. 1,310,228; July 15; v. 264; p. 474.
- Woodin, Charles K. (See Karl, Kolczynski, and Woodin.)
- Woodin, Charles K., J. F. Kolczynski, and G. E. Karl, assignors to The Dunham Company, Berea, Ohio. Agricultural-implement wheel. No. 1,325,770; Dec. 23; v. 269; p. 602.
- Woodington, John C., assignor to U. S. Slicing Machine Company, Laporte, Ind. Slicing-machine. No. 1,314,560; Sept. 2; v. 266; p. 16.
- Woodington, Joseph H., Cleveland, and C. A. Young, Bristol, England. Abrasive wheel. No. 1,308,019; June 24; v. 263; p. 614.



- Woodward, Guy L., San Diego, Calif. Spring-oiler. No. 1,301,529; Apr. 22; v. 261; p. 723.
- Woodland, Silas W., Roxboro, Wash. Current water-wheel. No. 1,290,466; Jan. 7; v. 258; p. 110.
- Woodling, Miner D., Kansas City, Mo. Steam-boiler furnace. No. 1,321,269; Nov. 11; v. 268; p. 236.
- Woodman, George A. (See Archibald and Woodman.)
- Woodman, George A., Chicago, Ill. House-car end construction. No. 1,317,121; Sept. 23; v. 266; p. 561.
- Woodrow, Harry R. (See Murray and Woodrow.)
- Woodruff, John C., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnet-core. No. 1,292,206; Jan. 21; v. 258; p. 582.
- Woodruff, Leonidas D., Norwood, Ohio, assignor to Union Connector Company, Wilmington, Del. Fluid-pressure coupling. No. 1,305,582; June 3; v. 263; p. 68.
- Woodruff, Leonidas D., Norwood, Ohio, assignor to Union Connector Company, Wilmington, Del. Gasket-retaining means. No. 1,306,043; June 10; v. 263; p. 183.
- Woodruff, Percy E., Farmington, Wash. Plow attachment. No. 1,318,251; Oct. 7; v. 267; p. 114.
- Woodruff, Will R., Stanton, Nebr. Vermin-exterminator. No. 1,312,223; Aug. 5; v. 265; p. 69.
- Woods, Charles L., Pensacola, Fla. Boat with stabilizing pontoons. No. 1,311,735; July 29; v. 264; p. 817.
- Woods, Clinton E., assignor to American Graphophone Company, Bridgeport, Conn. Talking-machine. No. 1,293,602; Feb. 4; v. 259; p. 145.
- Woods Cushion Wheel Company, The. (See Woods, Edward D., assignor.)
- Woods, Edward D., Detroit, Mich., assignor to The Woods Cushion Wheel Company, Cleveland, Ohio. Vehicle-wheel. No. 1,295,664; Feb. 25; v. 259; p. 714.
- Woods, Edward D., Cleveland, Ohio, assignor to Woods Steel & Process Corporation, Boston, Mass. Intermitting operating mechanism. No. 1,296,726; Mar. 11; v. 260; p. 240.
- Woods, Edward D., Cleveland, Ohio, assignor, by mesne assignments, to Woods Steel & Process Corporation, Boston, Mass. Clutch. No. 1,301,530; Apr. 22; v. 261; p. 723.
- Woods, Erastus W., Chicago, Ill. Furnace. No. 1,295,407; Feb. 25; v. 259; p. 654.
- Woods, Homer A., Indianapolis, Ind. Switch construction for lanterns. No. 1,314,925; May 27; v. 262; p. 562.
- Woods, Homer A., Indianapolis, Ind. Lantern. No. 1,310,150; July 15; v. 264; p. 460.
- Woods, Homer A., Indianapolis, Ind. Egg-candling attachment for portable lanterns. No. 1,311,106; July 22; v. 264; p. 667.
- Woods, Hubert W., New York, N. Y. Sectional rail for pool-playing. No. 1,311,671; July 29; v. 264; p. 805.
- Woods, Leonard, St. Louis, Mo. Garment-supporter. No. 1,297,526; Mar. 18; v. 260; p. 445.
- Woods, Leonard, St. Louis, Mo. Safety-clip. No. 1,324,091; Dec. 9; v. 269; p. 208.
- Woods Motor Vehicle Company. (See Fend, Roland S., assignor.)
- Woods Motor Vehicle Company. (See Stephenson, Leigh J., assignor.)
- Woods, Patrick F., Buffalo, N. Y. Shoe holder and stretcher. No. 1,301,776; Apr. 22; v. 261; p. 772.
- Woods, Perry C., Washington, Iowa. Internal-combustion engine. No. 1,323,139; Nov. 25; v. 268; p. 689.
- Woods, Sophie L. (See Weigel, Arnold A., assignor.)
- Woods, Sophie L. (See Welch and Weigel, assignors.)
- Woods Steel & Process Corporation. (See Woods, Edward D., assignor.)
- Woods, William F. (See Stacy and Woods, assignors.)
- Woodstock Manufacturing Company. (See Bourdon, Allan P. and L. R., assignors.)
- Woodstock Typewriter Company. (See Ebert, Alfred O. H., assignor.)
- Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
- Woodvine, George, Shrewsbury, England. Manufacture of spring packing-rings for pistons and the like. No. 1,296,580; Mar. 4; v. 260; p. 171.
- Woodvine, George, Shrewsbury, England. Apparatus for operating upon split packing-rings. No. 1,318,194; Oct. 7; v. 267; p. 102.
- Woodward, Alva W., Akron, Ohio. Vehicle-wheel. No. 1,305,761; June 3; v. 263; p. 100.
- Woodward, Arthur H., Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Fare-register. No. 1,310,819; July 22; v. 264; p. 615.
- Woodward, Christopher H. R. (See McCrary, Pierce R., assignor.)
- Woodward, Garrett W., assignor to J. H. Benjamin, Chicago, Ill. Self-operating talking-machine. No. 1,306,241; June 10; v. 263; p. 223.
- Woodward, Gilbert N., Portland, Oreg. Purveying device. No. 1,304,437; May 20; v. 262; p. 432.
- Woodward, Harry W., Cleveland, Ohio. Coupling. No. 1,307,427; June 24; v. 263; p. 506.
- Woodward, Irving C., Chicago, Ill. Self-locking screw-thread. No. 1,300,801; Apr. 15; v. 261; p. 539.
- Woodward, Irving C., Chicago, Ill. Demountable wheel. No. 1,321,967; Nov. 18; v. 268; p. 418.
- Woodward, John P., Seattle, Wash. Vegetable-bucket. No. 1,307,608; June 24; v. 263; p. 538.
- Woodward, R. J., et al. (See Cottrill, Kenyon, assignor.)
- Woodward, Raymond W. (See Gurevich and Woodward.)
- Woodward & Wright Last Company. (See Lindsay, Fred H., assignor.)
- Woodworth, Delia C., Manchester, N. H. Foldable basket. No. 1,315,067; Sept. 2; v. 266; p. 109.
- Woodworth, Donald C., Auburn, Me. Tire-spreader. No. 1,325,552; Dec. 23; v. 269; p. 562.
- Woodworth, Edred M., Detroit, Mich. Door-check. No. 1,307,948; June 24; v. 263; p. 601.
- Woodworth, Joseph V., Brooklyn, assignor of one-half to J. H. Devereux, Sagaponack, N. Y. Fastener. No. 1,302,263; Apr. 29; v. 261; p. 894.
- Woodworth, Olin F. (See Willis and Woodworth.)
- Woodworth, Robert B., Pittsburgh, Pa. Sectional bull-wheel. No. 1,306,792; June 17; v. 263; p. 356.
- Woodridge, Charles E., Jeromeville, Ohio. Seed-planter. No. 1,293,603; Feb. 4; v. 259; p. 146.
- Woodridge, James L., Decatur, Tex. Mote-board for cotton-gins. No. 1,308,651; July 1; v. 264; p. 118.
- Woolever, Burton E., assignor of one-half to J. W. Karkin, Burwell, Nebr. Pipe-clearer. No. 1,293,604; Feb. 4; v. 259; p. 146.
- Woolever, Floyd W., and G. M. Stains, Akron, Ohio. Railway-tie. No. 1,297,976; Mar. 18; v. 260; p. 542.
- Woolf Cycle Motor Company, The. (See Woolf, Ellis J. and J. F., assignors.)
- Woolf, Ellis J. and J. F., assignors to The Woolf Cycle Motor Company, Minneapolis, Minn. Internal-combustion engine. No. 1,292,942; Jan. 28; v. 258; p. 777.
- Woolf, Jay F. (See Woolf, Ellis J. and J. F.)
- Woolfolk, John T., Wilderville, Oreg. Clevis. No. 1,316,933; Sept. 23; v. 266; p. 525.
- Woolley, Walton D., Chicago, Ill., assignor to Killark Electric Manufacturing Company, St. Louis, Mo. Fuse-plug. No. 1,308,518; July 1; v. 264; p. 93.
- Woolner, Harry E., Los Angeles, Calif. Bean-cleaning device. No. 1,299,278; Apr. 1; v. 261; p. 151.
- Woolsey, Charles A., Greenville, Tenn. Animal-trap. No. 1,311,736; July 29; v. 264; p. 818.
- Woolson, Harry T., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,321,871; Nov. 18; v. 268; p. 400.
- Woolson, Lionel M. (See Wolffsohn, Lionel.)
- Woolson, Orosco C., Newark, N. J. Furnace. No. 1,304,235; May 20; v. 262; p. 392.
- Woolson Spice Company, The. (See Biggs, Franklin H., assignor.)
- Woolston, George F., New York, N. Y. Milling attachment for metal-working machines. No. 1,294,214; Feb. 11; v. 259; p. 321.
- Woolston, George F., New York, N. Y. Indexing attachment for lathe attachments. No. 1,294,215; Feb. 11; v. 259; p. 321.
- Woolums, W. H. (See Gumpfer, John K., assignor.)
- Woolums, William H. (See Gumpfer, John K., assignor.)
- Woolverton, William H., Washington, D. C., assignor of one-half to J. C. Scarborough, Bishopville, S. C. Medical vibrator. No. 1,302,620; May 6; v. 262; p. 26.
- Woolwine, Joseph W., Memphis, Tenn. Carton. No. 1,303,138; May 6; v. 262; p. 126.
- Woolwine, Lady W., Beckwith, assignor of one-half to D. Boone, Abney, W. Va. Safety-crank. No. 1,295,408; Feb. 25; v. 259; p. 654.
- Wooster, Clarence L., Newark, N. J. Candle-wick supporter. No. 1,320,109; Oct. 28; v. 267; p. 575.
- Wooster, Frederick A., and F. L. Knox, assignors to The Stanley Works, New Britain, Conn. Bolt. No. 1,292,556; Jan. 28; v. 258; p. 686.
- Wooster, Joseph E., Tremont, Me. Ship for carrying live lobsters and the like. No. 1,290,467; Jan. 7; v. 258; p. 110.
- Wooster, Philip L., Yonkers, N. Y. Purifying sugar juices or syrups. No. 1,304,438; May 20; v. 262; p. 433.
- Wootan, James E., Tacoma, Wash. Machine for milling base ore. No. 1,320,302; Oct. 28; v. 267; p. 611.
- Wooten, Marion E., and C. C. and P. V. Harmon, assignors, by mesne assignments, to American Automatic Soda Fountain Company, Charlotte, N. C. Carbonated-mixed-drink-dispensing apparatus. No. 1,316,528; Sept. 16; v. 266; p. 403.
- Worcester Metal Goods Company. (See Bradshaw, Charles E., assignor.)
- Worcester Metal Goods Company. (See Hubbell, Benjamin F., assignor.)
- Worcester Metal Goods Company. (See Lau, Frederick J., assignor.)
- Worden, Dudley, Ferndale, Wash. Saw attachment. No. 1,312,661; Aug. 12; v. 265; p. 184.
- Worden, Edward J., and H. G. Kastlin, La Crosse, Wis. Drill. No. 1,315,270; Sept. 9; v. 266; p. 156.
- Worden, Euclid P., Montclair, N. J., assignor to Henry R. Worthington. Drainage device for vacuum-pumps and the like. No. 1,301,209; Apr. 22; v. 261; p. 662.
- Worden, Frederic E., assignor to Hazen Manufacturing Company, Hudson, Mich. Water-change valve. No. 1,305,583; June 3; v. 263; p. 68.
- Wordingham, Charles H., Redhill, England. Disconnecting device for electric supply-circuits. No. 1,304,236; May 20; v. 262; p. 392.



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- Wordingham, Charles H., Redhill, England. System for distributing electric energy. No. 1,304,237; May 20; v. 262; p. 392.
- Worhatch, Max, Pittsburgh, Pa. Aeroplane. No. 1,297,286; Mar. 11; v. 260; p. 366.
- Workman, Harold. (See Twyman and Workman.)
- Workman, Harold, Glasgow, Scotland. Motion-picture apparatus. No. 1,309,992; July 15; v. 264; p. 432.
- Workman, Esau, Los Angeles, Calif. Internal-combustion engine. No. 1,292,943; Jan. 28; v. 258; p. 778.
- Workman, Lewis E., Los Angeles, Calif. Rotary gas-engine. No. 1,298,140; Mar. 25; v. 260; p. 602.
- Workman, Robert J., San Francisco, Calif. Can-stuffing machine. No. 1,311,144; July 22; v. 264; p. 674.
- Workman, Morris, New York, N. Y. Motor-car. No. 1,308,316; July 1; v. 264; p. 56.
- World Gas Engine Company, The. (See Shepard, Wilbur L., assignor.)
- World Harvester Corporation. (See Smith, Gaillard, assignor.)
- Worley, Floyd; J. H. Trowbridge, C. Wurttemberg, Nau-gatuck, Conn., and C. Lee, New Brunswick, N. J., assignors to The Goodyear's Metallic Rubber Shoe Company. Brake and drive-control mechanism. No. 1,311,939; Aug. 5; v. 265; p. 16.
- Worman, Edwin F. (See Licartagen, John, assignor.)
- Woronzoff, Dionysie, New York, N. Y. Food-order card. No. 1,296,149; Mar. 4; v. 260; p. 77.
- Worritz, Alfred, New York, N. Y. Transmission mechanism. No. 1,313,776; Aug. 19; v. 265; p. 413.
- Worrell, Dwight E., assignor to Hartner Manufacturing Company, Chicago, Ill. Electric-fixture support. No. 1,309,052; July 8; v. 264; p. 221.
- Worsley, Otto G., Chicago, Ill. Spring-wheel. No. 1,297,287; Mar. 11; v. 260; p. 366.
- Worsley, Otto G., Chicago, Ill. Resilient vehicle-wheel. No. 1,306,454; June 10; v. 263; p. 262.
- Worster, Arthur E., Vancouver, British Columbia, Canada. Pump. No. 1,294,014; Feb. 11; v. 259; p. 273.
- Worswick, Edgar T., Nilgiri, Madras, British India. Apparatus for throwing confetti and the like. No. 1,324,092; Dec. 9; v. 269; p. 208.
- Worth, Frank, Seattle, Wash. Boat-launching apparatus. No. 1,315,895; Sept. 9; v. 266; p. 269.
- Wortham, G. W. (See Johnson, Olive J., assignor.)
- Worthen, Burt L., San Francisco, Cal. Mechanical gun. No. 1,291,691; Jan. 14; v. 258; p. 422.
- Worthen, Burt L., deceased, Chicago, Ill.; V. K. Worthen, executrix. Drill. No. 1,326,245; Dec. 30; v. 269; p. 727.
- Worthen, Virginia K., executrix. (See Worthen, Burt L.)
- Worthington, Charles C., Dunnfield, N. J. Golf-ball cleaner. No. 1,293,286; Feb. 4; v. 259; p. 73.
- Worthington, Charles C., Dunnfield, N. J. Lawn-mowing apparatus. No. 1,293,287; Feb. 4; v. 259; p. 73.
- Worthington, Charles C., Dunnfield, N. J., assignor to Shawnee Mower Company, New York, N. Y. Lawn-mower. No. 1,313,972; Aug. 26; v. 265; p. 485.
- Worthington, Henry R. (See De Laval and Towsend, assignors.)
- Worthington Pump and Machinery Corporation. (See Weimer, Hugo W., assignor.)
- Worthington Pump and Machinery Corporation. (See Wikander, Oscar R., assignor.)
- Wortman, George C., Denver, Colo. Combined rail-base and spike holder. No. 1,323,802; Dec. 2; v. 269; p. 108.
- Wotherspoon, William W., New York, N. Y. Seal for conduits. No. 1,294,744; Feb. 18; v. 259; p. 479.
- Wotherspoon, William W., New York, N. Y. Apparatus for charging compartments with gas, &c. No. 1,312,224; Aug. 5; v. 265; p. 70.
- Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Buzzer. No. 1,292,207; Jan. 21; v. 258; p. 552.
- Woyton, Michael T., Jamaica, N. Y. Machine for gumming and moistening labels. No. 1,311,199; July 29; v. 264; p. 717.
- Woznow, Harry, Schmidt, Saskatchewan, Canada. Collar. No. 1,321,180; Nov. 11; v. 268; p. 218.
- Wray, Archibald, Park Ridge, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. No. 1,292,208; Jan. 21; v. 258; p. 582.
- Wrayge, Christian, Jr., Cass Lake, Minn. Nut-lock. No. 1,321,270; Nov. 11; v. 268; p. 236.
- Wreissner, Peter J., Dassel, Minn. Swing. No. 1,308,568; July 1; v. 264; p. 102.
- Wren, Harvey A., Strawberry, S. C. Nut-lock. No. 1,292,557; Jan. 28; v. 258; p. 687.
- Wren, James F., Little Rock, Ark. Ice-cream freezer. No. 1,290,468; Jan. 7; v. 258; p. 110.
- Wright, Albert S. (See Hurtt and Wright.)
- Wright, Alfred C., and W. Dukes, Birmingham, assignors to The Warland Dual Rim Company, Limited, Aston, Birmingham, England. Road-vehicle wheel. No. 1,303,139; May 6; v. 262; p. 126.
- Wright, Alfred D., Berkeley, Calif. Tent. No. 1,317,408; Sept. 30; v. 266; p. 651.
- Wright, Arthur. (See Wright, Henry C., assignor.)
- Wright, Arthur C. (See Moorehead, George F., assignor.)
- Wright, Augustus E., Southboro, Mass. Two-part container and blank therefor. No. 1,318,124; Oct. 7; v. 267; p. 88.
- Wright, Ben, Blackshear, Ga. Clothes-pin. No. 1,297,527; Mar. 18; v. 260; p. 445.
- Wright, Benjamin F., Fort Branch, Ind. Gate-latch. No. 1,320,955; Nov. 4; v. 268; p. 113.
- Wright, Carey, Dunkirk, and J. W. Awald, Fredonia, N. Y. Gas-saver for enriching heating and illuminating gas. No. 1,319,316; Oct. 21; v. 267; p. 402.
- Wright, Charles A., Brockton, Mass. Wrench. No. 1,320,815; Nov. 4; v. 268; p. 86.
- Wright, Charles V., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Press. No. 1,306,455; June 10; v. 263; p. 262.
- Wright, Charles W., Topeka, Kans. Street and station indicator. No. 1,325,131; Dec. 16; v. 269; p. 466.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Slip. No. 1,298,619; Mar. 25; v. 260; p. 704.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Band-wheel. No. 1,303,445; May 13; v. 262; p. 209.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Jack. No. 1,309,973; July 15; v. 264; p. 429.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Gage-cock. No. 1,309,974; July 15; v. 264; p. 429.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Pulling-machine. No. 1,324,221; Dec. 9; v. 269; p. 232.
- Wright, D. H. (See Herle, Chester A., assignor.)
- Wright, Daniel M. (See Bowers, Charles L., assignor.)
- Wright, David A., et al. (See Meyer, August J., assignor.)
- Wright, Denver M., Atlanta, Ga. Belt-making machine. No. 1,297,770; Mar. 18; v. 260; p. 499.
- Wright, Dudley, Bankfield, Ulverston, England. Liquid-fuel furnace. No. 1,290,826; Jan. 7; v. 258; p. 196.
- Wright, Edgar L., Pontiac, Mich. Band-saw guide. No. 1,322,743; Nov. 25; v. 268; p. 615.
- Wright, Fenton E., Lodi, Calif. Adjustable striking-plate. No. 1,297,528; Mar. 18; v. 260; p. 445.
- Wright, Francis M., et al. (See Hussey, William A., assignor.)
- Wright, Fred, Winnipeg, Manitoba, Canada. Buckle. No. 1,315,618; Sept. 9; v. 266; p. 218.
- Wright, Frederick A., and W. J. Brong, Dickson City, Pa. Electrical grade-crossing signal. No. 1,313,445; Aug. 19; v. 265; p. 351.
- Wright, George T., Marissa, Ill. Self-oiling truck-wheel. No. 1,310,229; July 15; v. 264; p. 475.
- Wright, Gilbert, Schenectady, N. Y. Internal-combustion engine. No. 1,314,561; Sept. 2; v. 266; p. 16.
- Wright, Gilbert, Pelham, N. Y. Valve and controlling means therefor. No. 1,319,502; Oct. 21; v. 267; p. 438.
- Wright, Glenn H., Upland, Calif. Belt-stretcher. No. 1,324,575; Dec. 9; v. 269; p. 301.
- Wright, Harvey W., and J. M. Ratcliff, Florence, Ala. Gear-wheel. No. 1,312,818; Aug. 12; v. 265; p. 214.
- Wright, Henry C., assignor of one-third to A. Wright, New York, N. Y. Motor-driven canoe. No. 1,309,975; July 15; v. 264; p. 429.
- Wright, Ivan B. (See Wright, Parvin and I. B.)
- Wright, Jacob P., Barborton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Split-setting mechanism for match-machines. No. 1,319,744; Oct. 28; v. 267; p. 507.
- Wright, Jacob P., and C. A. Carlson, Barborton, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Machine for making boxes. No. 1,293,288; Feb. 4; v. 259; p. 73.
- Wright, James B., assignor, by mesne assignments, of two-thirds to J. K. Burton, Nashville, Tenn. Starting system. No. 1,323,945; Dec. 2; v. 269; p. 136.
- Wright, James H., et al. (See Greenstreet, Milfred L., assignor.)
- Wright, James H., Lebanon, Mo. Vulcanizing device. No. 1,298,620; Mar. 25; v. 260; p. 704.
- Wright, John E., New York, N. Y. Reproducer. No. 1,292,944; Jan. 28; v. 258; p. 778.
- Wright, John E., New York, N. Y. Tabulating device. No. 1,296,727; Mar. 11; v. 260; p. 240.
- Wright, John E., New York, N. Y. Punched-card-controlled mechanism. No. 1,299,090; Apr. 1; v. 261; p. 109.
- Wright, John F., et al., executors. (See Wright Thomas.)
- Wright, John M. (See Vandervoort, Milford T., assignor.)
- Wright, John P., Newark, Del. Composite board. No. 1,303,753; May 13; v. 262; p. 266.
- Wright, John P., Newark, Del. Making noiseless gears. No. 1,315,896; Sept. 9; v. 266; p. 269.
- Wright, John S., Owensboro, Ky. Vaporizer device for explosive-engines. No. 1,299,648; Apr. 8; v. 261; p. 263.
- Wright, John W., Toronto, Ontario, Canada. Picture-hook. No. 1,313,366; Aug. 19; v. 265; p. 336.
- Wright, Jonathan, and W. H. Marshall, Pleasantville, N. Y. Apparatus for generating and diffusing water-vapor into the atmosphere of rooms. No. 1,320,724; Nov. 4; v. 268; p. 68.
- Wright, Joseph F., Cincinnati, Ohio. Muff. No. 1,300,088; Apr. 8; v. 261; p. 361.



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- Wright, Joseph L., assignor, by mesne assignments, to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,298,850; Apr. 1; v. 261; p. 54.
- Wright, Joseph L., Cleveland, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,303,528; May 13; v. 262; p. 225.
- Wright, Judson E., assignor of one-half to C. Frey, San Diego, Calif. Tide-motor. No. 1,304,238; May 20; v. 262; p. 392.
- Wright, Lee O., Dante, Va. Wrench. No. 1,302,748; May 6; v. 262; p. 50.
- Wright, Lee O., U. S. Army, assignor to C. C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Rear-sight holder for military rifles. No. 1,291,692; Jan. 14; v. 258; p. 423.
- Wright, Melvin C., Paris, Ill. Clamp for hog oilers or tanks. No. 1,313,446; Aug. 19; v. 265; p. 351.
- Wright, Morgan. (See Christopherson, William G., assignor.)
- Wright, Morris S., Worcester, Mass. Pumping apparatus for musical instruments. No. 1,306,937; June 17; v. 263; p. 383.
- Wright, Morris S., Worcester, Mass. Pneumatic action for musical instruments. No. 1,312,495; Aug. 5; v. 265; p. 120.
- Wright, Morris S., assignor to M. S. Wright Company, Worcester, Mass. Dust-collecting receptacle for vacuum-cleaners. No. 1,317,646; Sept. 30; v. 266; p. 697.
- Wright, Parvin and I. B., Seattle, Wash. Electric furnace and melting metals and smelting ores. No. 1,296,896; Mar. 11; v. 260; p. 280.
- Wright, Raymond D. B., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Fluid-proportioning apparatus. No. 1,296,150; Mar. 4; v. 260; p. 77.
- Wright, Reuben I., assignor, by mesne assignments, to The Electric Controller & Manufacturing Company, Wickliffe-on-the-Lake, Ohio. Electromagnetic contactor. No. 1,310,269; July 15; v. 264; p. 482.
- Wright, Richard H. (See Bracy, Edward L., assignor.)
- Wright, Robert K., Jr., Philadelphia, Pa. Distillation. No. 1,316,214; Sept. 16; v. 266; p. 342.
- Wright, Samson D., Cleveland, Ohio. Dump-car. No. 1,307,428; June 24; v. 263; p. 506.
- Wright, Samson D., Cleveland, Ohio. Coke-quenching car. No. 1,317,253; Sept. 30; v. 266; p. 621.
- Wright, Samson D., E. W. Schellentrager, and C. C. Martin; said Schellentrager and said Martin assignors to Atlas Car and Manufacturing Company, Cleveland, Ohio. Truck. No. 1,313,151; Aug. 12; v. 265; p. 280.
- Wright, Samuel E., Augusta, Kans. Time-controlled circuit-breaker. No. 1,297,529; Mar. 18; v. 260; p. 446.
- Wright, Samuel M., Schenectady, N. Y. Water-heater. No. 1,309,083; July 8; v. 264; p. 227.
- Wright, Thomas, deceased; T. E. Wright, Jersey City, and J. F. Wright, Clinton, N. J., executors. Dumping wagon and cart. No. 1,322,155; Nov. 18; v. 268; p. 452.
- Wright, Thomas E., *et al.*, executors. (See Wright, Thomas.)
- Wright, Thomas E., Jersey City, N. J. Dumping wagon and cart. No. 1,322,156; Nov. 18; v. 268; p. 452.
- Wright, Timothy, Vancouver, British Columbia, Canada. Antirocking device for rocking-chairs. No. 1,323,946; Dec. 2; v. 269; p. 136.
- Wright, Wallace C., assignor to Basler Machinery Company, Lynn, Mass. Machine for leather flexing and tempering. No. 1,313,510; Aug. 19; v. 265; p. 363.
- Wright, Walter, New York, N. Y. Type-setting machine. No. 1,300,089; Apr. 8; v. 261; p. 361.
- Wright, Walter, assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,294,745; Feb. 18; v. 259; p. 479.
- Wright, Walter E., Cleveland, Ohio. Paint. No. 1,308,884; July 8; v. 264; p. 189.
- Wright, Walter F., Pueblo, Colo. Rim-breaker. No. 1,315,068; Sept. 2; v. 266; p. 109.
- Wright, Wilbur L., *et al.* (See Willert, John E., assignor.)
- Wright, Wilbur L., Baltimore, Md., assignor to Sealright Co., Inc., Fulton, N. Y. Paper can and other container. No. 1,308,317; July 1; v. 264; p. 56.
- Wright, William, assignor to F. A. Lester, Chicago, Ill. Draft-gear yoke. No. 1,291,338; Jan. 14; v. 258; p. 339.
- Wright, William E., Kipling, Ontario, Canada. Electrical toy. No. 1,318,944; Oct. 14; v. 267; p. 306.
- Wright, William H., Indianapolis, Ind. Fluid-stream-pressure governor. No. 1,305,762; June 3; v. 263; p. 101.
- Wright, William H., Indianapolis, Ind., assignor to C. J. Tagliabue Manufacturing Company, Brooklyn, N. Y. Pressure-governor for gas-mains. No. 1,313,447; Aug. 19; v. 265; p. 351.
- Wright, Wilson M., C. Teeple, and J. J. Lamb, Jefferson, Iowa. Apparatus for repairing radiators and the like. No. 1,315,448; Sept. 9; v. 266; p. 188.
- Wrightson, Thomas, assignor to Head, Wrightson and Company, Limited, Thornaby-on-Teess, England. Floating mine. No. 1,298,142; Mar. 25; v. 260; p. 602.
- Wrightson, Thomas, and J. M. Ringquist, assignors to Head, Wrightson and Company, Limited, Thornaby-on-Teess, England. Submarine mine. No. 1,298,141; Mar. 25; v. 260; p. 602.
- Wrightson, Thomas G., and J. M. Ringquist, assignors to Head, Wrightson and Company, Limited, Thornaby-on-Teess, England. Submarine-mine sinker. No. 1,298,143; Mar. 25; v. 260; p. 603.
- Wrightsville Hardware Company. (See Filbey, John W., assignor.)
- Wrigley, Garnet P., Elmira, N. Y. Advertising device. No. 1,298,621; Mar. 25; v. 260; p. 704.
- Wrinkle, Noah, and W. A. Kuhnert, San Francisco, Calif. Obtaining potassium chlorid. No. 1,311,481; July 29; v. 264; p. 170.
- Wrinkle, Noah, and W. A. Kuhnert, San Francisco, Calif. Separately obtaining potassium chlorid and borax from certain dry salts. No. 1,316,755; Sept. 23; v. 266; p. 494.
- Wroclawski, Valenty, Chicago, Ill. Freight-car. No. 1,322,212; Nov. 18; v. 268; p. 463.
- Wronowski, Piotr, McKees Rocks, Pa. Collapsible bed. No. 1,324,576; Dec. 9; v. 269; p. 301.
- Wronski, Stanley, Cleveland, Ohio. Infant-rocker. No. 1,308,318; July 1; v. 264; p. 57.
- Wubbens, Benjamin F., W. F. Hupp, and H. F. Hegeman, Cedar Rapids, Iowa. Electric water-heater. No. 1,322,860; Nov. 25; v. 268; p. 637.
- Wubbolding, Edward H. (See Schumer and Wubbolding.)
- Wuensch, Charles E., Leadville, Colo. Drill. No. 1,316,609; Sept. 23; v. 266; p. 465.
- Wulfbeck, Edward C., Cincinnati, Ohio. Gas and air mixing device. No. 1,297,958; Mar. 18; v. 260; p. 538.
- Wulff, Ezra H., Toledo, Ohio. Collapsible demountable rim. No. 1,292,945; Jan. 28; v. 258; p. 778.
- Wulfoop, Henry C., Newark, Ohio. Beet-harvester. No. 1,302,118; Apr. 29; v. 261; p. 867.
- Wulkan, Isaac B., Cleveland, Ohio. Loom-fastener. No. 1,295,249; Feb. 25; v. 259; p. 618.
- Wunsch, Joseph W., Brooklyn, N. Y. Cloth-laying machine. No. 1,325,224; Dec. 16; v. 269; p. 484.
- Würgler, Jacob. (See Grob and Würgler.)
- Wurtenberg, Charles. (See Worley, Trowbridge, Wurtenberg, and Lee.)
- Wurts, Edward V. (See Payne and Wurts.)
- Wurts, Thomas C., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,317,254; Sept. 30; v. 266; p. 622.
- Wyant, Frank D., *et al.* (See Clyne, Robert G., assignor.)
- Wyatt, Herbert J., Longbranch, Wash. Spout-faucet base. No. 1,309,167; July 8; v. 264; p. 242.
- Wyatt, James R., assignor to The Ajax Metal Company, Philadelphia, Pa. Induction-furnace having unidirectional circulation. No. 1,312,069; Aug. 5; v. 265; p. 41.
- Wyatt, James R., assignor to The Ajax Metal Company, Philadelphia, Pa. Form for outlining electric-furnace channels. No. 1,313,571; Aug. 19; v. 265; p. 375.
- Wyble, Frank M., Lansing, Mich. Stone-picker. No. 1,316,130; Sept. 16; v. 266; p. 326.
- Wyborne, Charles R., Wilbur, Wash. Current-motor. No. 1,315,587; Sept. 9; v. 266; p. 213.
- Wyborski, Joseph, Philadelphia, Pa. Wall-paper-hanging-machine. No. 1,318,945; Oct. 14; v. 267; p. 307.
- Wyckoff, Alvin, and M. Handschlegl, Los Angeles, Calif., assignors to Famous Players-Lasky Corporation. Coloring cinematographic films. No. 1,303,836; May 13; v. 262; p. 281.
- Wyckoff, Alvin, and M. Handschlegl, Los Angeles, Calif., assignors to Famous Players-Lasky Corporation. Machine for and art of coloring cinematographic films. No. 1,303,837; May 13; v. 262; p. 282.
- Wyckoff, Joseph E., Los Angeles, Calif. Beet-harvester. No. 1,322,389; Nov. 18; v. 268; p. 497.
- Wysal, William D., El Segundo, Calif. Poultry drinking-fountain. No. 1,299,091; Apr. 1; v. 261; p. 109.
- Wygant, Frederick A. (See Hand and Wygant.)
- Wygant, Lewis B., Vincennes, Ind. Electrical bale-tie welder. No. 1,294,590; Feb. 18; v. 259; p. 443.
- Wygant, Lewis B., Vincennes, Ind. Electrical bale-tie welder. No. 1,309,168; July 8; v. 264; p. 243.
- Wygodsky, Leon, assignor to Baltimore Oil Engine Company, Baltimore, Md. Internal-combustion engine. No. 1,312,605; Aug. 12; v. 265; p. 173.
- Wyka, Martin, Buffalo, N. Y. Ink-well. No. 1,300,322; Apr. 15; v. 261; p. 438.
- Wyde, Edward, and C. A. Reiners, New York, N. Y., assignors to Elevator Supply & Repair Company. Controlling device for elevator-cars and the like. No. 1,317,062; Sept. 23; v. 266; p. 549.
- Wylie, Lewis D., Turlock, Calif. Animal-hopple. No. 1,301,349; Apr. 22; v. 261; p. 691.
- Wylie, Thomas B., Pittsburgh, Pa. Apparatus for measuring gas and other fluids. No. 1,308,569; July 1; v. 264; p. 102.
- Wyman, Charles O., Anoka, Minn. Power-transmitting chain. No. 1,310,726; July 22; v. 264; p. 597.
- Wyman, Laurence W., assignor to California Corrugated Culvert Company, Oakland, Calif. Sheet-metal tank. No. 1,319,826; Oct. 28; v. 267; p. 522.
- Wynn, John H., Birmingham, England. Expandible chain of the kind used as bracelets. No. 1,326,816; Dec. 30; v. 269; p. 835.
- Wynn, John L. (See Hansen, Bernard, assignor.)
- Wynne, Francis E., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,318,946; Oct. 14; v. 267; p. 307.



## Alphabetical list of patentees—Continued.

- Wyrill, Arthur O., Palestine, Tex. Signaling apparatus. No. 1,321,968; Nov. 18; v. 268; p. 418.
- Wysong, Fannie I., executrix. (See Wysong, Olmedo C.)
- Wysong, Olmedo C., deceased, Greensboro, N. C.; F. I. Wysong, executrix. Case-clamp. No. 1,311,632; July 29; v. 264; p. 798.
- Wyss, Walter, assignor to Firma Adolphe Saurer, Arbon, Switzerland. Automatic temperature-regulator. No. 1,296,250; Mar. 4; v. 260; p. 99.
- Wyszynski, Frank, Chicago, Ill. Razor-sharpening device. No. 1,325,132; Dec. 16; v. 269; p. 466.
- Wytrwal, Stanley, assignor of one-half to D. Hczuk, Scranton, Pa. No. 1,299,279; Apr. 1; v. 261; p. 151.
- Yablou, Isaak, and C. Weis, Lancaster, Pa. Skirt-supporter. No. 1,311,852; July 29; v. 264; p. 839.
- Yager, Harvey J., Seattle, Wash. Electrically-operated railway crossing and signal. No. 1,312,377; Aug. 5; v. 265; p. 97.
- Yahle, Earl L., Newark, N. J. Apparatus for filling containers. No. 1,305,584; June 3; v. 263; p. 68.
- Yahres, Jacob A., Akron, Ohio. Bolt-splitting device. No. 1,307,290; June 17; v. 263; p. 448.
- Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Mikelsen, Peder, assignor.)
- Yale & Towne Manufacturing Company, The. (See Richter, Paul C., assignor.)
- Yamada, Takeo. (See Dowson and Yamada.)
- Yamada, Thomas, New York, N. Y. Stabilizer for airplanes. No. 1,312,225; Aug. 5; v. 265; p. 70.
- Yamaguchi, Kokichi, Tokyo, Japan. Form for constructing concrete walls. No. 1,318,427; Oct. 14; v. 267; p. 207.
- Yamamoto, Nobujiro, Astoria, Oreg. Automatic can-labeling machine. No. 1,292,209; Jan. 21; v. 258; p. 583.
- Yamamoto, Shikazo, Los Angeles, Calif. Broom. No. 1,315,194; Sept. 2; v. 266; p. 132.
- Yamamoto, Yoshitaro, Kobe, assignor of one-fourth to I. Mizusawa, Hyogo Ken, and one-fourth to T. Kano, Kobe, Japan. Deodorizing and decoloring bean-flour. No. 1,314,298; Aug. 26; v. 265; p. 547.
- Yamane, Rio, Roosevelt, Wash. Machine for tightening bolts and nuts. No. 1,326,817; Dec. 30; v. 269; p. 835.
- Yanochowski, George A., Chicago, Ill., and H. E. Hershey, White Water, Kans., assignors to Automatic Electric Company, Chicago, Ill. Telephone system. No. 1,314,453; Aug. 26; v. 265; p. 577.
- Yanochowski, George A., Chicago, Ill., and H. E. Hershey, White Water, Kans., assignors to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,317,190; Sept. 30; v. 266; p. 610.
- Yanovsky, Elias. (See Sayre and Yanovsky.)
- Yarberry, Roland L., San Antonio, Tex. Door-bolt. No. 1,300,912; Apr. 15; v. 261; p. 563.
- Xardell, Charles A., Utica, N. Y. Compartment-tank. No. 1,310,516; July 22; v. 264; p. 558.
- Xardell, Charles A., Utica, N. Y. Tank. No. 1,310,517; July 22; v. 264; p. 558.
- Yardley, William H., Sheffield, England. Apparatus for treating air or other gases. No. 1,323,666; Dec. 2; v. 269; p. 83.
- Yarian, Charles E., Gallon, Ohio. Traversing hoist. No. 1,290,469; Jan. 7; v. 258; p. 111.
- Yarnall, David R., assignor to Yarnall-Waring Company, Philadelphia, Pa. Sensitive weir-meter inlet control. No. 1,307,609; June 24; v. 263; p. 538.
- Yarnall-Waring Company. (See Yarnall, David R., assignor.)
- Yarrow, Harold E., Scotstoun, Scotland. Steering and maneuvering of ships. No. 1,296,448; Mar. 4; v. 260; p. 141.
- Yarrow, Harold E., Scotstoun, Glasgow, Scotland. Cooling device for steam-generating apparatus of submarine vessels. No. 1,312,662; Aug. 12; v. 265; p. 184.
- Yarrow, Harold E., Scotstoun, Glasgow, Scotland. Heat insulation of the steam-generating apparatus of submarine vessels. No. 1,316,405; Sept. 16; v. 266; p. 378.
- Yarrow, Harold E., Glasgow, Scotland. Storage of oil-fuel in vessels. No. 1,296,449; Mar. 4; v. 260; p. 142.
- Yarrow, Harold E., Glasgow, Scotland. Storage of oil-fuel in vessels. No. 1,296,450; Mar. 4; v. 260; p. 142.
- Yarrow, Harold E., Glasgow, Scotland. Safety device for oil-fired boilers. No. 1,297,288; Mar. 11; v. 260; p. 366.
- Yarrow, Harold E., Glasgow, Scotland. Submarine vessel. No. 1,302,264; Apr. 29; v. 261; p. 894.
- Yarrow, Harold E., Glasgow, Scotland. Air-valve for furnaces using liquid fuel. No. 1,312,378; Aug. 5; v. 265; p. 97.
- Yarrow, Harold E., Glasgow, Scotland. Turbine-blade. No. 1,313,152; Aug. 12; v. 265; p. 280.
- Yasumura, George Y., Seattle, Wash. Ice-cream-cone machine. No. 1,295,409; Feb. 25; v. 259; p. 654.
- Yates, Harry J., and C. Heggie, assignors to John Wright and Eagle Range Limited, Birmingham, England. Flue-joint. No. 1,322,078; Nov. 18; v. 268; p. 438.
- Yates, Katherine B., Buffalo, N. Y. Adjustable crutch. No. 1,296,728; Mar. 11; v. 260; p. 241.
- Yatzuk, Peter A., Waterbury, Conn. Potato-digger. No. 1,300,090; Apr. 8; v. 261; p. 362.
- Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,292,210; Jan. 21; v. 258; p. 583.
- Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,302,621; May 6; v. 262; p. 26.
- Yawman & Erbe Manufacturing Company. (See Yawman, Philip H., assignor.)
- Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Unit metal transfer-cabinet. No. 1,292,946; Jan. 28; v. 258; p. 779.
- Yeager, Hayden, Cincinnati, Iowa. Car-wheel journal. No. 1,299,528; Apr. 8; v. 261; p. 235.
- Yeager, Matthias S., Los Angeles, Cal., assignor to Liberty Burner Co., Gas-burner. No. 1,296,581; Mar. 4; v. 260; p. 171.
- Yeager, Matthias S., Los Angeles, Calif., assignor to Liberty Burner Co. Generator. No. 1,323,140; Nov. 25; v. 268; p. 689.
- Yeagley, John B., Ashland, Ohio. Building-scaffold. No. 1,307,610; June 24; v. 263; p. 539.
- Yeakel, Abraham M., assignor of one-half to W. L. Yeakel, Perkase, Pa. Carrier for baskets, bundles, &c. No. 1,298,144; Mar. 25; v. 260; p. 603.
- Yeakel, Wilson L. (See Yeakel, Abraham M., assignor.)
- Yeakey, Robert L., Cave in Rock, Ill. Bridge-plate for violins. No. 1,304,841; May 27; v. 262; p. 547.
- Yenkley, Melvin A., Canton, Ohio. Antifriction-bearing. No. 1,293,605; Feb. 4; v. 259; p. 146.
- Yeamans Company, The. (See Yeamans, Eugene N., assignor.)
- Yeamans, Eugene N., Houston, Tex., assignor to The Yeamans Company. Automatic fountain-valve for locomotives. No. 1,302,749; May 6; v. 262; p. 50.
- Yearous, Isalah V., Clarinda, Iowa. Draft-adjuster. No. 1,319,449; Oct. 21; v. 267; p. 448.
- Yearwood, Byrd O. (See Jackson and Yearwood.)
- Yearwood, Carl L., Knoxville, Tenn. Brush-holder. No. 1,323,996; Dec. 2; v. 269; p. 146.
- Yeaton, George A., Portland, Oreg. Belt-tightener. No. 1,301,026; Apr. 15; v. 261; p. 588.
- Yegge, C. F., trustee. (See Greenstreet, Jason H., assignor.)
- Yeiser, Leon B., assignor to Glauber Brass Manufacturing Company, Cleveland, Ohio. Regulating shower-head. No. 1,295,250; Feb. 25; v. 259; p. 618.
- Yeiser, Leon B., assignor to Glauber Brass Manufacturing Company, Cleveland, Ohio. Thermostat shower-head. No. 1,303,140; May 6; v. 262; p. 126.
- Yeiser, Leon B., and A. I. Fischer, assignors to Glauber Brass Manufacturing Company, Cleveland, Ohio. Wall-fitting. No. 1,314,584; Sept. 2; v. 266; p. 21.
- Yelle, Orville D., Everett, Wash. Pencil and flash-light combined. No. 1,321,694; Nov. 11; v. 268; p. 316.
- Yemiker, John, Akron, Ohio. Collapsible core for building tires. No. 1,320,816; Nov. 4; v. 268; p. 86.
- Yeomans, George S., et al. (See Trumpour, Frederick J., assignor.)
- Yeomans, Lucien I., Chicago, assignor to Mann Corporation, Kankakee, Ill. Sewing-machine. No. 1,305,858; June 3; v. 263; p. 119.
- Yeomans, Lucien I., assignor to T. K. Webster, trustee, Chicago, Ill. Machine-tool. No. 1,309,383; July 8; v. 264; p. 282.
- Yeomans, Lucien I., assignor to Amalgamated Machinery Corporation, Chicago, Ill. Planer. No. 1,309,384; July 8; v. 264; p. 282.
- Yeomans, Lucien I., assignor to Amalgamated Machinery Corporation, Chicago, Ill. Pad-facing machine. No. 1,309,385; July 8; v. 264; p. 281.
- Yeomans, Lucien I., assignor to Amalgamated Machinery Corporation, Chicago, Ill. Manufacturing long sectional machine-beds. No. 1,309,386; July 8; v. 264; p. 282.
- Yeomans, Lucien I., assignor to Amalgamated Machinery Corporation, Chicago, Ill. End-facing machine. No. 1,309,387; July 8; v. 264; p. 282.
- Yeomans, Lucien I., assignor to Amalgamated Machinery Corporation, Chicago, Ill. Manufacturing the bearings of gun-boring machines. No. 1,309,388; July 8; v. 264; p. 283.
- Yeomans, Lucien I., assignor to Amalgamated Machinery Corporation, Chicago, Ill. Boring-machine. No. 1,309,389; July 8; v. 264; p. 283.
- Yeomans, Wallace C., Pe Ell, Wash. Valve. No. 1,296,897; Mar. 11; v. 260; p. 280.
- Yeomans, Warner M., assignor to The Rust Engineering Company, Pittsburgh, Pa. Sectional mold. No. 1,307,470; June 24; v. 263; p. 514.
- Yerkason, John S., Brooklyn, N. Y. Treasure-carrier. No. 1,290,827; Jan. 7; v. 258; p. 196.
- Yerkes, Adolph A., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold sales-book. No. 1,291,339; Jan. 14; v. 258; p. 339.
- Yerkes, Adolph A., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold sales-book. No. 1,291,340; Jan. 14; v. 258; p. 340.
- Yerkes, Silas H. (See Taggart, George M., assignor.)
- Yernaux, Joseph E., Puteaux, France. Screening apparatus. No. 1,312,664; Aug. 12; v. 265; p. 184.



- Yingling, Frank B., Hamilton, Ohio. Tile-press. No. 1,308,213; July 1; v. 264; p. 38.
- Yingling, Frank B., Hamilton, Ohio. Shaper-feed. No. 1,315,449; Sept. 9; v. 266; p. 188.
- Yioja, Matti, Brooklyn, N. Y. Attachment for sewing-machines. No. 1,302,750; May 6; v. 262; p. 50.
- Yoder, Carl M., Cleveland, Ohio. Universal wiring-machine. No. 1,319,503; Oct. 21; v. 267; p. 439.
- Yoder, Peter A., Washington, D. C., and L. E. Longley, Moscow, Idaho; dedicated, by mesne assignments, to the Government of the United States and to the people of the United States. Cane-stripping comb. No. 1,322,990; Nov. 25; v. 268; p. 661.
- Yokich, Millivoj N., Woodlawn, Pa. Apparatus for maintaining pipes straight. No. 1,316,822; Sept. 23; v. 266; p. 505.
- Yordy, Edward, Graymont, Ill. Strainer for eaves-troughs. No. 1,290,470; Jan. 7; v. 258; p. 111.
- York, Lorne M., Detroit, Mich., assignor to Automotive Manufacturing Company, Dayton, Ohio. Auxiliary air-inlet device. No. 1,303,529; May 13; v. 262; p. 225.
- York, Victor, Brea, Cal. Oil-well-drilling drive. No. 1,297,289; Mar. 11; v. 260; p. 366.
- Yorke, George M., New York, N. Y., and G. R. Benjamin, Jersey City, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Means for synchronizing rotary devices. No. 1,298,622; Mar. 25; v. 260; p. 704.
- Yorke, Patrick, Washington, Pa. Structural-steel derrick. No. 1,306,793; June 17; v. 263; p. 356.
- Yoshida, Toshio, Koishikawa-ku, Tokyo, Japan. Bomb-dropping apparatus for aeroplanes or airships. No. 1,290,858; Jan. 7; v. 258; p. 201.
- Yoshikawa, Masao, College Park, Md. Flytrap. No. 1,326,815; Dec. 30; v. 269; p. 836.
- Yost, Gilmore M., assignor to The Columbian Hardware Company, Cleveland, Ohio. Vise. No. 1,298,145; Mar. 25; v. 260; p. 603.
- Yost, Gilmore M., assignor to The Columbian Hardware Company, Cleveland, Ohio. Vise. No. 1,298,146; Mar. 25; v. 260; p. 603.
- Yost, John E., Arkansas City, Kans. Game apparatus. No. 1,320,817; Nov. 4; v. 268; p. 86.
- Yost, Lyman G. (See Klink, Charles, assignor.)
- Yost, William F., assignor of one-half to M. H. Klamt, Chicago, Ill. Oil-burner for bake-ovens. No. 1,305,679; June 3; v. 263; p. 85.
- Youdelman, Alexander, New York, N. Y. Tip-attaching implement. No. 1,312,292; Aug. 5; v. 265; p. 81.
- Youdelman, Alexander, New York, N. Y. Tip-attaching implement. No. 1,326,819; Dec. 30; v. 269; p. 836.
- Youdelman, Alexander, New York, N. Y. Tip-attaching implement. No. 1,326,820; Dec. 30; v. 269; p. 836.
- Youmans Machine Company, The. (See Grabler and Phipps, assignors.)
- Young, Abraham L. (See Parks, William, assignor.)
- Young, Albert H., assignor of two-thirds to C. L. Pettis and E. W. Logan, Syracuse, N. Y. Direction-signal for vehicles. No. 1,318,822; Oct. 14; v. 267; p. 283.
- Young Brothers Company. (See Young, George A., assignor.)
- Young, Charles A. (See Woodington and Young.)
- Young, Charles D., Altoona, Pa. Apparatus for using powdered fuel. No. 1,308,137; July 1; v. 264; p. 24.
- Young, Charles D., Altoona, Pa. Feed-water heater. No. 1,308,138; July 1; v. 264; p. 24.
- Young, Charles D., Wilmington, Del. Brake-release spring. No. 1,322,215; Nov. 18; v. 268; p. 464.
- Young, Charles D., Wilmington, Del. Coupling-centering apparatus. No. 1,322,744; Nov. 25; v. 268; p. 615.
- Young, Clifford H., St. Louis, Mo., assignor, by mesne assignments, to The Auto & Motor Truck Axle Company. Differential mechanism. No. 1,320,956; Nov. 4; v. 268; p. 113.
- Young, Conrad G., Twin, assignor of one-half to G. W. Kuppler, Seattle, Wash. Hosiery. No. 1,297,530; Mar. 18; v. 260; p. 446.
- Young, Coulter D., et al. (See Glass, Louine R., assignor.)
- Young, Daniel. (See Eggett and Young.)
- Young, Daniel H. (See Cass, William L., assignor.)
- Young, Daniel H., Manchester, Iowa. Electric heater for humidifiers. No. 1,294,015; Feb. 11; v. 259; p. 273.
- Young, Daniel H., and W. L. Cass, assignors of one-third to G. Brayton, Manchester, Iowa. Humidifying device for ovens. No. 1,299,649; Apr. 8; v. 261; p. 263.
- Young, Daniel H., and C. O. Noble, Manchester, Iowa. Composition for shoe-soles and heels. No. 1,299,650; Apr. 8; v. 261; p. 263.
- Young, De Nard W. B., Philadelphia, Pa., assignor to Soap Works Equipment Company. Apparatus for rapidly aging solidified plastic articles. No. 1,294,016; Feb. 11; v. 259; p. 274.
- Young, De Nard W. B., Philadelphia, Pa., assignor to Soap Works Equipment Company. Apparatus for rapidly aging solidified plastic articles. No. 1,294,591; Feb. 18; v. 259; p. 443.
- Young, De Nard W. B., Narberth, Pa., assignor to Soap Works Equipment Company. Apparatus for rapidly aging solidified plastic articles. No. 1,316,262; Sept. 16; v. 266; p. 351.
- Young, Donald H., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Link. No. 1,293,606; Feb. 4; v. 259; p. 147.
- Young, Edward B., Hartville, Mo. Angle or corner brace. No. 1,320,303; Oct. 28; v. 267; p. 611.
- Young, Edward C. (See Otto and Young.)
- Young, Edward J., et al. (See Daley, Edward M., assignor.)
- Young, Edward W. (See Young and Schecher.)
- Young, Edwin H., Dallas, Tex. Cotton-delinter. No. 1,319,199; Oct. 21; v. 267; p. 381.
- Young, Eugene E., Syracuse, N. Y. Carbon-eliminator and lubricator for gas-engines. No. 1,305,859; June 3; v. 263; p. 119.
- Young, Francis L., New York, N. Y., assignor to The Aeolian Company. Phonograph-cabinet. No. 1,297,977; Mar. 18; v. 260; p. 542.
- Young, Francis L., New York, N. Y., assignor to The Aeolian Company. Sound-record. No. 1,308,020; June 24; v. 263; p. 615.
- Young, Frank E. J., Chicago, Ill. Combined tooth-brush holder and tumbler-support. No. 1,318,428; Oct. 14; v. 267; p. 208.
- Young, Frank G. (See Welter, Grover C., assignor.)
- Young, Frank S., Riverside, Calif. Chalk-line reel. No. 1,297,959; Mar. 18; v. 260; p. 538.
- Young, Frederick J., Los Angeles, Calif. Lead-pencil. No. 1,309,929; July 15; v. 264; p. 421.
- Young, Frederick V., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,325,184; Dec. 16; v. 269; p. 476.
- Young, George A., assignor to Young Brothers Company, Detroit, Mich. Oven-wall. No. 1,312,663; Aug. 12; v. 265; p. 184.
- Young, George F., Indianapolis, Ind. Sanitary mop-hanger. No. 1,292,947; Jan. 28; v. 258; p. 779.
- Young, George W., et al. (See Norman, Frank, assignor.)
- Young, Harold S., and F. H. Ihdé, La Grange, Cal. Luminous attachment for gun-sights. No. 1,292,211; Jan. 21; v. 258; p. 583.
- Young, Harry B., Cincinnati, Ohio. Razor-blade holder. No. 1,309,169; July 8; v. 264; p. 243.
- Young, Harry C. (See Macbeth and Young.)
- Young, Harry L., and M. S. Finch, St. Joseph, Mo. Automatic mixing and antiscalding valve. No. 1,308,829; July 8; v. 264; p. 178.
- Young, Harry W., Whitehall, Mich. Chock. No. 1,291,341; Jan. 14; v. 258; p. 340.
- Young, Harry W., Whitehall, Mich. Deck-cleat. No. 1,299,529; Apr. 8; v. 261; p. 236.
- Young, Henry E., Elizabethtown, Ky. Poison-holder and decoy for rodents. No. 1,325,069; Dec. 16; v. 269; p. 454.
- Young, Homer J., Dayton, Ohio. Combination clarifier and separator. No. 1,294,017; Feb. 11; v. 259; p. 274.
- Young, Homer J., Dayton, Ohio. Electromagnetic speed-indicator for cream clarifiers and separators. No. 1,309,390; July 8; v. 264; p. 283.
- Young, Hugo H., Loudonville, Ohio. Movable foot-rail. No. 1,311,940; Aug. 5; v. 265; p. 17.
- Young, Jacob L., New Rochelle, N. Y. Dental pliers. No. 1,304,720; May 27; v. 262; p. 524.
- Young, Jacob L., New Rochelle, N. Y. Orthodontia appliance. No. 1,304,721; May 27; v. 262; p. 525.
- Young, Jacob L., New Rochelle, N. Y. Orthodontia appliance. No. 1,304,722; May 27; v. 262; p. 525.
- Young, Jacob L., New Rochelle, N. Y. Orthodontia appliance. No. 1,304,723; May 27; v. 262; p. 525.
- Young, Jacob L., New Rochelle, N. Y. Orthodontia appliance. No. 1,323,141; Nov. 25; v. 268; p. 690.
- Young, John, Welland, Ontario, Canada. Automatic locking device for electric-furnace regulators of the Thury type. No. 1,307,768; June 24; v. 263; p. 567.
- Young, John, Akron, and W. W. Benner, Cuyahoga Falls, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Reclaiming rubber. No. 1,324,093; Dec. 9; v. 269; p. 208.
- Young, John H., Bartlesville, Okla. Gun-support. No. 1,309,560; July 8; v. 264; p. 315.
- Young, John S., and E. W. and J. L. Schecher, Los Angeles, Calif. Caster. No. 1,301,777; Apr. 22; v. 261; p. 773.
- Young, Leonard A., Detroit, Mich. Upholstery spring construction. No. 1,299,890; Apr. 8; v. 261; p. 318.
- Young, Leonard A., Detroit, Mich. Upholstery back-spring construction. No. 1,301,778; Apr. 22; v. 261; p. 773.
- Young, Leonard A., Detroit, Mich. Upholstery-spring construction. No. 1,325,344; Dec. 16; v. 269; p. 506.
- Young, Leonard A., Highland Park, Mich. Upholstery spring construction. No. 1,302,119; Apr. 29; v. 261; p. 807.
- Young, Leonard A., Highland Park, assignor to L. A. Young Industries, Inc., Detroit, Mich. Rim-strip. No. 1,313,973; Aug. 26; v. 265; p. 485.
- Young, Leonard A., and W. Miller, Detroit, Mich.; said Miller assignor to said Young, Pulley. No. 1,309,675; July 15; v. 264; p. 374.
- Young, Leonard I., Fredonia, N. Y. Automobile windshield. No. 1,291,342; Jan. 14; v. 258; p. 340.



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- Young, Michael J., Stockton, Calif. Watering device. No. 1,307,429; June 24; v. 263; p. 506.
- Young, Oliver B., Detroit, Mich. Form for concrete trusses. No. 1,314,725; Sept. 2; v. 266; p. 48.
- Young, Otis W., assignor to Pyle-National Electric Headlight Company, Chicago, Ill. Throttle-valve. No. 1,304,724; May 27; v. 262; p. 525.
- Young, Philip E., Fairhaven, Mass. Toy aeroplane. No. 1,304,139; May 20; v. 262; p. 374.
- Young, Philip E., Fairhaven, Mass., assignor to Acushnet Process Company, Inc. Reclaiming rubber and cotton from waste. No. 1,321,201; Nov. 11; v. 268; p. 222.
- Young, Ralph A. (See King and Young.)
- Young, Samuel E., Atlanta, Ga. Mold. No. 1,326,246; Dec. 30; v. 269; p. 727.
- Young, Sanford C., Hartford, W. Va. Ballot-seal punch. No. 1,312,070; Aug. 5; v. 265; p. 41.
- Young, Vinton C., Verona, Mo. Automobile-radiator connection. No. 1,319,745; Oct. 28; v. 267; p. 507.
- Young, Wilbur H., Keyport, N. J. Electrical connection. No. 1,308,214; July 1; v. 264; p. 38.
- Young, William, Toronto, Ontario, Canada. Chase. No. 1,296,898; Mar. 11; v. 260; p. 280.
- Young, William A., Milwaukee, Wis., assignor of one-half to H. H. Erkelenz, Milwaukee, Wis. Traveling crane. No. 1,309,504; July 8; v. 264; p. 304.
- Young, William E., Uniontown, Pa. Mining-machine. No. 1,315,271; Sept. 9; v. 266; p. 156.
- Young, William F., Bremerton, Wash. Bolting-up jack. No. 1,305,680; June 3; v. 263; p. 85.
- Young, William F., Bremerton, Wash. Power-wrench. No. 1,326,627; Dec. 30; v. 269; p. 799.
- Young, William H., Denver, Colo. Bed attachment. No. 1,318,429; Oct. 14; v. 267; p. 208.
- Young, William S., London, England. Closet-seat guard. No. 1,301,779; Apr. 22; v. 261; p. 773.
- Youngberg, Alfred F., et al. (See Bergren, John A., assignor.)
- Youngblood, Joseph C., Atwood, Kans. Sectional de-mountable rim. No. 1,314,110; Aug. 26; v. 265; p. 511.
- Youngblood, Joseph C., Atwood, Kans. Film-winding mechanism. No. 1,320,818; Nov. 4; v. 268; p. 86.
- Youngblood, Lee, Hammond, La. Railway-crossing gate. No. 1,323,142; Nov. 25; v. 268; p. 690.
- Younger, Frank, Wallace, Cal. Sanitary dispensing apparatus. No. 1,295,665; Feb. 25; v. 259; p. 715.
- Younger, Frank, assignor of fifteen one-hundredths to J. Calcaterra, Wallace, Calif. Sanitary dispensing apparatus. No. 1,303,141; May 6; v. 262; p. 127.
- Youngman, George, Gladstone, Minn. Corn-planter attachment. No. 1,291,343; Jan. 14; v. 258; p. 341.
- Youngs, Joshua A., Baldwin Harbor, N. Y. Ejector for cigarette and cigar holders. No. 1,314,456; Aug. 26; v. 265; p. 577.
- Youngson, Stewart. (See Beaton and Youngson.)
- Youngstown Sheet & Tube Company, The. (See Lee, Lelf, assignor.)
- Yount, James E., Fort Worth, Tex. Vibrating churn. No. 1,305,860; June 3; v. 263; p. 119.
- Yourtee, Ralph F., St. Louis, Mo. Wall construction. No. 1,297,960; Mar. 18; v. 260; p. 538.
- Yuba Manufacturing Company. (See Johnson, Alfred C., assignor.)
- Yunker, Clarence F., Dodge City, Kans. Attachment for wrenches. No. 1,294,857; Feb. 18; v. 259; p. 506.
- Yunker, Ervin L., Dodge City, Kans. Washboard. No. 1,314,297; Aug. 26; v. 265; p. 547.
- Yvonneau, Charles E., Paris, France. Internal-combustion engine. No. 1,294,746; Feb. 18; v. 259; p. 479.
- Yznaga, Cecil C., Sebastian, Tex. Air-compressor. No. 1,304,439; May 20; v. 262; p. 433.
- Zabawa, Andrej, Shawenegan Falls, Quebec, Canada. Ship-fender. No. 1,293,289; Feb. 4; v. 259; p. 74.
- Zabawa, Andrej, Shawenegan Falls, Quebec, Canada. Toilet-seat. No. 1,294,747; Feb. 18; v. 259; p. 480.
- Zabawa, Andrej, Shawenegan Falls, Quebec, Canada. Folding furniture. No. 1,303,446; May 13; v. 262; p. 209.
- Zabel, Bruno, Edgewood borough, Pa. Theft-signal for vehicles. No. 1,295,410; Feb. 25; v. 259; p. 655.
- Zabel, Bruno, Edgewood borough, Pa. Automobile warning device. No. 1,295,950; Mar. 4; v. 260; p. 30.
- Zabel, Hellmuth A., Poy Sippi, Wis. Cranking attachment for automobile-engines. No. 1,324,711; Dec. 9; v. 269; p. 326.
- Zabel, William, Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,293,290; Feb. 4; v. 259; p. 74.
- Zabriskie, Edgar, et al. (See Rosentreter, Albert J., assignor.)
- Zaccard, Felix, and T. P. McDonough, Chicago, Ill. Life-saving apparel. No. 1,314,299; Aug. 26; v. 265; p. 547.
- Zacharias, Edwin H., Reading, Pa. Garment-pressing machine. No. 1,291,344; Jan. 14; v. 258; p. 341.
- Zacharias, Walther, Neville Island, Pa. Extracting metal values. No. 1,304,842; May 27; v. 262; p. 547.
- Zacharias, Walther, Pittsburgh, Pa. Circulating-pump. No. 1,304,843; May 27; v. 262; p. 547.
- Zachry, John L., Atlanta, Ga. Water-heater. No. 1,312,012; Aug. 5; v. 265; p. 30.
- Zadorozny, Frank. (See Karasevich, Jouzas, assignor.)
- Zadorozny, Wasyli, Meacham, Saskatchewan, assignor of one-half to T. Zygiel, Hamilton, Ontario, Canada. Padlock. No. 1,308,519; July 1; v. 264; p. 57.
- Zadorozny, Wasyli, Meacham, Saskatchewan, assignor of one-half to T. Zygiel, Hamilton, Ontario, Canada. Trick-lock. No. 1,316,663; Sept. 23; v. 266; p. 476.
- Zadorozny, Wasyli, Meacham, Saskatchewan, assignor of one-half to T. Zygiel, Hamilton, Ontario, Canada. Combined bayonet and wire-cutter. No. 1,316,664; Sept. 23; v. 266; p. 476.
- Zadorozny, Wasyli, Meacham, Saskatchewan, assignor of one-half to T. Zygiel, Hamilton, Ontario, Canada. Dirigible headlight. No. 1,316,665; Sept. 23; v. 266; p. 477.
- Zadorozny, Wasyli, Meacham, Saskatchewan, assignor of one-half to T. Zygiel, Hamilton, Ontario, Canada. Alarm-lock. No. 1,321,872; Nov. 18; v. 268; p. 400.
- Zagel, Jacob. (See Soderstrom, John A., assignor.)
- Zagel, Jacob, assignor of one-half to J. A. Soderstrom, Chicago, Ill. Necktie-fastener. No. 1,307,072; June 17; v. 263; p. 409.
- Zagelmeyer, Frank, Bay City, Mich. Camping outfit. No. 1,304,440; May 20; v. 262; p. 433.
- Zagelmeyer, Frank, Bay City, Mich. Camping outfit. No. 1,308,139; July 1; v. 264; p. 24.
- Zahm, Albert F., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Vibration-measure. No. 1,316,260; Sept. 16; v. 266; p. 351.
- Zahm, Albert F., Buffalo, N. Y. Aileron of variable-aspect ratio. No. 1,326,010; Dec. 23; v. 269; p. 646.
- Zahm, Edward, and C. A. Nagel, assignors to Zahm Manufacturing Company, Buffalo, N. Y. Filter. No. 1,294,018; Feb. 11; v. 259; p. 274.
- Zahm Manufacturing Company. (See Zahm and Nagel, assignors.)
- Zaiden, David, New York, N. Y. Mechanical eye. No. 1,294,592; Feb. 18; v. 259; p. 443.
- Zaiss, Fred E., Chicago, Ill. Machine for forming candy. No. 1,304,140; May 20; v. 262; p. 374.
- Zaiss, Fred E., Chicago, Ill. Machine for forming candy. No. 1,320,435; Nov. 4; v. 268; p. 15.
- Zajac, John. (See Wojtasiewicz and Zajac.)
- Zajac, Marcin, Chicopee, Mass. Armored automobile. No. 1,305,637; June 3; v. 263; p. 78.
- Zakharoff, Alexis A., New York, N. Y. Removable form for concrete structures. No. 1,316,610; Sept. 23; v. 266; p. 466.
- Zaleski, Frank, Cambridge, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-stitching machine. No. 1,318,430; Oct. 14; v. 267; p. 208.
- Zaljs, Frank, Chester, Pa. Nutcracker. No. 1,312,149; Aug. 5; v. 265; p. 56.
- Zanaletti, Joseph, Chicago, Ill. Aviation-motor. No. 1,323,803; Dec. 2; v. 269; p. 109.
- Zancan, Ottavio, New York, N. Y. Vehicle-tire. No. 1,320,518; Nov. 4; v. 268; p. 30.
- Zanchi, Attilio, San Pietro-Seveso, Italy. Loom. No. 1,319,827; Oct. 28; v. 267; p. 523.
- Zanddecki, John B., Onalaska, Wash. Threadless nut. No. 1,323,432; Dec. 2; v. 269; p. 39.
- Zanders, Louis H., Malvern, Iowa. Article-carrier. No. 1,318,252; Oct. 7; v. 267; p. 114.
- Zanes, Delaney D., Irvington, N. J., assignor to Detroit-Cadillac Motor Car Company, New York, N. Y. Device for taking up slack in sprocket-chains. No. 1,308,570; July 1; v. 264; p. 103.
- Zang, Joseph E. (See Klorer, Charles P., assignor.)
- Zanzig, Charles F. (See Peterson, John N., assignor.)
- Zapis, Vassilos P., New York, N. Y. Lacing device. No. 1,309,271; July 8; v. 264; p. 261.
- Zardinoni, Faust, Chicago, Ill. Life-saving raft. No. 1,324,634; Dec. 9; v. 269; p. 312.
- Zarek, Jacob P., Kenosha, Wis. Changeable-speed brace. No. 1,294,216; Feb. 11; v. 259; p. 322.
- Zarlinga, Angelo J., and E. J. Korbel, Chicago, Ill. Fuse-plug. No. 1,322,079; Nov. 18; v. 268; p. 438.
- Zarth, Anna, administratrix. (See Zarth, Otto.)
- Zarth, Otto, deceased, Aurora, Ill.; A. Zarth, administratrix. Vehicle-wheel hub. No. 1,317,063; Sept. 23; v. 266; p. 550.
- Zartman, Charles M., assignor of one-third to J. W. Calloway and one-third to A. Hoban, Montrose, Colo. Wire-stretcher. No. 1,311,787; July 29; v. 264; p. 827.
- Zartman, Samuel B., assignor of one-half to B. F. Barber, Niles, Mich. Pneumatic wheel. No. 1,302,265; Apr. 29; v. 261; p. 894.
- Zaskey, Stanley, North Hatfield, Mass. Braking device for railway-cars. No. 1,317,409; Sept. 30; v. 266; p. 651.
- Zaslavsky, Harry. (See Schwartz and Zaslavsky.)
- Zaun, George F., San Bernardino, Cal. Truck. No. 1,297,290; Mar. 11; v. 260; p. 367.
- Zaun, George F., San Bernardino, Calif. Rolling-stock. No. 1,312,465; Aug. 5; v. 265; p. 115.
- Zaun, George F., San Bernardino, Calif. Railway-car-toilet construction. No. 1,325,310; Dec. 16; v. 269; p. 500.
- Zaun, Mathias, South Bethlehem, Pa. Ice-creeper. No. 1,292,212; Jan. 21; v. 258; p. 583.



- Zavitz, William, Algonac, Mich. Bag-holder. No. 1,292,213; Jan. 21; v. 258; p. 583.
- Zawistowski, Martin, Brooklyn, N. Y. Cloth-cutting machine. No. 1,319,707; Oct. 28; v. 267; p. 500.
- Zawistowski, Martin, Brooklyn, N. Y. Cloth-cutting machine. No. 1,319,809; Oct. 28; v. 267; p. 519.
- Zawisza, John, Windsor, Ontario, Canada. Collapsible washstand. No. 1,297,630; Mar. 18; v. 260; p. 467.
- Zbikowski, Frank, Bessemer, Pa. Automobile signaling device. No. 1,297,961; Mar. 18; v. 260; p. 538.
- Zboyan, Julia E., Lyons, N. J. Sink attachment. No. 1,313,153; Aug. 12; v. 265; p. 280.
- Zdancewicz, Alexander, Lansford, Pa. Carpet-cleaner. No. 1,300,323; Apr. 15; v. 261; p. 438.
- Zebolen, Joseph J. (See Stanecky, Joseph G., assignor.)
- Zebrowski, Frank, Cleveland, Ohio. Ship-protector. No. 1,326,558; Dec. 30; v. 269; p. 786.
- Zega, Anthony F., Newark, N. J. Stop for talking-machines. No. 1,292,214; Jan. 21; v. 258; p. 584.
- Zega, Anthony F., Newark, N. J. Lid-support. No. 1,324,094; Dec. 9; v. 269; p. 208.
- Zeh, Edmund W., Newark, N. J. Press-guard. No. 1,305,763; June 3; v. 263; p. 101.
- Zeh, Edmund W., Newark, N. J. Drawing-press. No. 1,322,861; Nov. 25; v. 268; p. 637.
- Zeh, Edmund W., Newark, N. J. Power-press brake mechanism. No. 1,324,095; Dec. 9; v. 269; p. 208.
- Zeh, Edmund W., Newark, N. J. Power-press. No. 1,324,367; Dec. 9; v. 269; p. 260.
- Zehrunge, Harry A., Portland, Ore. Package-tying device. No. 1,311,482; July 29; v. 264; p. 770.
- Zeidler, Arthur, Springfield, Mass. Radius and contour cutting attachment for grinding-machines. No. 1,301,350; Apr. 22; v. 261; p. 691.
- Zeigler, Carl, Lewiston, Me. Electric attachment-plug. No. 1,298,623; Mar. 25; v. 260; p. 705.
- Zeimer, Jacob, *et al.* (See Light, Claus H., assignor.)
- Zeindler, Werner, and J. E. Martin, Philadelphia, Pa. Coupling to be used for pipe, hose, folding crutches, and the like. No. 1,311,145; July 22; v. 264; p. 674.
- Zeisberg, Fred C., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Concentrating nitric acid and apparatus for use in connection therewith. No. 1,292,948; Jan. 28; v. 258; p. 779.
- Zeiss, Firm of Carl. (See Henker, Otto, assignor.)
- Zeitlin, Joseph, Fulham, London, England. Valve and valve-gear for internal-combustion and other engines. No. 1,292,215; Jan. 21; v. 258; p. 584.
- Zelepugas, Frank, Worcester, Mass. Shingle-making machine. No. 1,311,633; July 29; v. 264; p. 793.
- Zeller, John, Moberidge, S. D. Clamp-applier. No. 1,319,746; Oct. 28; v. 267; p. 507.
- Zellers, Mahlon M., Belleville, Ill. Stirrup. No. 1,303,142; May 6; v. 262; p. 127.
- Zelma, Isiah Z., East Palatka, Fla. Barrel. No. 1,292,216; Jan. 21; v. 258; p. 584.
- Zelma, Isiah Z., East Palatka, Fla. Press. No. 1,292,217; Jan. 21; v. 258; p. 584.
- Zelvis, Charles J., Cleveland, Ohio. Churn. No. 1,296,899; Mar. 11; v. 260; p. 281.
- Zeman, Anton, Philadelphia, Pa. Combined window screen and ventilator. No. 1,318,253; Oct. 7; v. 267; p. 114.
- Zenke, Charles H., Chicago, Ill. Device for applying printed matter to the edges of books and the like. No. 1,322,667; Nov. 25; v. 268; p. 601.
- Zengel, Joseph A., Inglewood, Wash. Valve. No. 1,326,247; Dec. 30; v. 269; p. 728.
- Zenker, Frederick. (See Ball and Zenker.)
- Zenker, Frederick. (See Freeman and Zenker.)
- Zenker, Fredrick, Highland Park, Mich., assignor to Detroit Fuse & Manufacturing Company, Detroit, Mich. Electrical switch. No. 1,320,595; Nov. 4; v. 268; p. 45.
- Zenner, Hubert J., Racine, Wis. Oilier for punch-presses and the like. No. 1,320,725; Nov. 4; v. 268; p. 68.
- Zent, Walter W. (See Bullizant, Cisco, assignor.)
- Zentmyer, William H. H. (See Radujkov and Zentmyer.)
- Zentner, Mathew, Oshkosh, Wis. Device for aiding combustion. No. 1,295,666; Feb. 25; v. 259; p. 715.
- Zerenga, Bonaventure, Brooklyn, N. Y. Toy vehicle. No. 1,324,096; Dec. 9; v. 269; p. 208.
- Zerkle, Russell E., North Hampton, Ohio. Stone-gathering machine. No. 1,323,804; Dec. 2; v. 269; p. 109.
- Zertuche, Ruben, Torreon, Mexico. Treating rubber and the product produced thereby. No. 1,302,266; Apr. 29; v. 261; p. 894.
- Zesbaugh, Lawrence G. (See Nelson, Landrigan, and Zesbaugh.)
- Zesbaugh, Lawrence G., C. E. Larson, Minneapolis, O. W. Thomas and S. Fryckberg, St. Paul, assignors to Marvel Machinery Company, Minneapolis, Minn. Boring-machine. No. 1,322,213; Nov. 18; v. 268; p. 463.
- Zetsche, William G., Chicago, Ill. Muffle-furnace. No. 1,322,214; Nov. 18; v. 268; p. 464.
- Zetterlund, Theodor, assignor to Harley-Davidson Motor Company, Milwaukee, Wis. Semi-automatic roller-retainer milling-machine. No. 1,311,583; July 29; v. 264; p. 789.
- Ziebarth, Arthur D., Davenport, Iowa, and A. V. Magnuson, Berwyn, Ill., assignors to Davenport Machine & Foundry Company, Davenport, Iowa. Molding-machine. No. 1,316,666; Sept. 23; v. 266; p. 477.
- Ziegenfuss, Friedrich, Bredeneu, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Parachute for illuminating-bodies. No. 1,319,553; Oct. 21; v. 267; p. 448.
- Ziegler, Alfred A., trustee. (See Hagman, Edwin V., assignor.)
- Ziegler, Alfred A., Boston, Mass. Signal-lantern. No. 1,290,471; Jan. 7; v. 258; p. 111.
- Ziegler, Alfred A., Boston, Mass. Junction-box. No. 1,308,830; July 8; v. 264; p. 179.
- Ziegler, Alfred A., Boston, Mass. Variable-resistance unit. No. 1,321,873; Nov. 18; v. 268; p. 401.
- Ziegler, Edwin S., York, Pa. Transmission-extension means for automobiles. No. 1,309,676; July 15; v. 264; p. 374.
- Ziegler, Leslie L., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Elevator. No. 1,306,509; June 10; v. 263; p. 272.
- Ziegler, Oscar J., Milwaukee, Wis. Resilient vehicle-wheel. No. 1,292,949; Jan. 28; v. 258; p. 779.
- Ziegler, Oscar G., Halethorpe, Md., assignor to A. Hoen & Company, Baltimore, Md. Knockdown display-rack. No. 1,301,797; Apr. 22; v. 261; p. 777.
- Ziegler, William L., Sunset, Idaho. Flotation apparatus and process. No. 1,324,139; Dec. 9; v. 269; p. 217.
- Ziehl, Carl. (See Ketchum and Ziehl.)
- Zielinski, Joseph. (See Novak, John A., assignor.)
- Ziener, Fredrick, Freeport, N. Y. Tool-handle fastener. No. 1,312,819; Aug. 12; v. 265; p. 214.
- Zierlein, Herbert, assignor of one-half to C. A. Blakeslee, Lomax, Nebr. Jar-closure. No. 1,321,695; Nov. 11; v. 268; p. 316.
- Zika, George A., Ottumwa, Iowa. Reinforced-concrete-block structure, *etc.* No. 1,322,390; Nov. 18; v. 268; p. 497.
- Zim, Henry, Osawatomie, Kans. Cobbler's tool. No. 1,315,450; Sept. 9; v. 266; p. 189.
- Ziman, Henry L., Sydney, New South Wales, Australia. Marine life-preserving jacket. No. 1,295,667; Feb. 25; v. 259; p. 715.
- Zimbelmann, Peter, Aurora, Ill. Roof construction. No. 1,318,125; Oct. 7; v. 267; p. 88.
- Zimdars, John B., San Francisco, Cal. Internal tire-armor. No. 1,291,345; Jan. 14; v. 258; p. 341.
- Zimdars, John B., San Francisco, Cal. Inner tube for pneumatic tires. No. 1,291,346; Jan. 14; v. 258; p. 341.
- Zimdars, John B., San Francisco, Cal. Magazine-pencil. No. 1,296,900; Mar. 11; v. 260; p. 281.
- Zimdars, John B., San Francisco, Calif. Pneumatic tire. No. 1,320,304; Oct. 28; v. 267; p. 611.
- Zimlich, Joseph G., Cleveland, Ohio, Barrel-rack. No. 1,312,150; Aug. 5; v. 265; p. 56.
- Zimmer, Carl L. V., Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Converting limestone into compressible artificial stone. No. 1,319,918; Oct. 28; v. 267; p. 540.
- Zimmer, Paul H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,296,729; Mar. 11; v. 260; p. 241.
- Zimmer, Paul H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling device. No. 1,304,008; May 20; v. 262; p. 351.
- Zimmer, Paul H., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electromagnetic switch. No. 1,306,874; June 17; v. 263; p. 372.
- Zimmerman, Alexander F., *et al.* (See Allwood, Ernest, assignor.)
- Zimmerman, Amos M., Akron, Pa. Garment corner-turning and edge-creasing machine. No. 1,313,777; Aug. 19; v. 265; p. 414.
- Zimmerman, Clarence C., assignor to National Surface Guard Company, Chicago, Ill. Rail-saw. No. 1,294,593; Feb. 18; v. 259; p. 444.
- Zimmerman, Edgar A., Shamokin, Pa. Spacing bar or core for plastic work. No. 1,309,084; July 8; v. 264; p. 227.
- Zimmerman, Edgar A., Shamokin, Pa. Hair-plane. No. 1,317,748; Oct. 7; v. 267; p. 17.
- Zimmerman, Emil C., assignor to Q & C Company, New York, N. Y. Guard-rail clamp. No. 1,306,988; June 17; v. 263; p. 392.
- Zimmermann, Karl, St. Gregor, Saskatchewan, Canada. Leather-splitting machine. No. 1,326,317; Dec. 30; v. 269; p. 740.
- Zimmerman, James G., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-dynamo. No. 1,298,624; Mar. 25; v. 260; p. 705.
- Zimmerman, John. (See Zimmerman, Joseph E., assignor.)
- Zimmerman, Joseph E., New York, N. Y., assignor of one-half to J. Zimmerman, Glendale, N. Y. Combination cooking and house water-heating range. No. 1,294,217; Feb. 11; v. 259; p. 322.
- Zimmerman, Maximilian. (See Tucker, Andrew P., assignor.)
- Zimmerman, Peter, *et al.* (See McLaughlin, William D., assignor.)



## Alphabetical list of patentees—Continued.

- Zimmerman, Thomas, assignor, by mesne assignments, to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starter for engines. No. 1,290,472; Jan. 7; v. 258; p. 111.
- Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,321,874; Nov. 18; v. 268; p. 401.
- Zimmermann, Henry W., Cincinnati, Ohio. Roller. No. 1,291,347; Jan. 14; v. 258; p. 341.
- Zimmermann, Paul G., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Landing-gear for aeroplanes. No. 1,298,625; Mar. 25; v. 260; p. 705.
- Zimmermann, Paul G., and H. Kleckler, Buffalo, N. Y., assignors to Curtiss Aeroplane and Motor Corporation. Pusher-hydroaeroplane. No. 1,296,730; Mar. 11; v. 260; p. 242.
- Zimmermann, Simon. (See Pulosky and Zimmermann.)
- Zimmermann, William F., Newark, N. J. Worm-grinder. No. 1,304,644; May 27; v. 262; p. 510.
- Zimmermann, William F., assignor to Gould & Eberhardt, Newark, N. J. Spindle-supporting member. No. 1,304,643; May 27; v. 262; p. 510.
- Zimmers, David F., Altoona; E. N. Jessop, Glassport; W. J. Koenig, Springdale, and J. B. Garner, Pittsburgh, assignors to Hope Natural Gas Company, Pittsburgh, Pa. Manufacturing carbon black. No. 1,307,430; June 24; v. 263; p. 506.
- Zink, Henry J., *et al.* (See Kennedy, James W., assignor.) (Reissue.)
- Zink, Herman F. (See Martin and Zink.)
- Zink, John, Terre Haute, Ind. Drilling-machine. No. 1,294,019; Feb. 11; v. 259; p. 275.
- Zink, John F., Allegany, N. Y. Gun-rack. No. 1,302,267; Apr. 29; v. 261; p. 894.
- Zink, John S. (See Burke, Boyd, Biddison, and Zink.)
- Ziobro, Stanley, Westport, Conn. Lock attachment. No. 1,324,949; Dec. 16; v. 269; p. 432.
- Zion, John E., Enid, Okla. Calipering device. No. 1,312,606; Aug. 12; v. 265; p. 173.
- Zipf, Carl F., Johnstown, Pa. Amusement device. No. 1,313,660; Aug. 19; v. 265; p. 391.
- Zipin, Benjamin S., and H. Singer, Philadelphia, Pa. Bedclothes-holder. No. 1,309,976; July 15; v. 264; p. 430.
- Ziporyn, Isidore, New York, N. Y. Wrist fountain-pen. No. 1,322,862; Nov. 25; v. 268; p. 637.
- Zippler, Michael, Pittsburgh, Pa. Attachment for converters. No. 1,310,230; July 15; v. 264; p. 475.
- Zirger, Arthur J., New York, N. Y. Hair-waving apparatus. No. 1,321,696; Nov. 11; v. 268; p. 316.
- Zisch, George, *et al.* (See Eisler, Charles, assignor.)
- Zisk, Anton, Baltimore, Md. Life-saving boat. No. 1,298,147; Mar. 25; v. 260; p. 603.
- Zito, Vincent D., Hartford, Conn. Gage. No. 1,324,870; Dec. 16; v. 269; p. 418.
- Zix, Karl, Bathbeach, N. Y. Making finger-rings. No. 1,303,530; May 13; v. 262; p. 225.
- Zocher, Curt, Leipzig-Connewitz, by T. Zocher, guardian, Leipzig, Germany. Foundation for scalloped embroidery. No. 1,316,010; Sept. 16; v. 266; p. 304.
- Zocher, Toni, guardian. (See Zocher, Curt.)
- Zoeller, Milton G., Preston, Nebr. Tractor. No. 1,294,748; Feb. 18; v. 259; p. 480.
- Zoeller, Milton G., Preston, Nebr. Gear-locking mechanism. No. 1,294,858; Feb. 18; v. 259; p. 506.
- Zoeller, Milton G., Kansas City, Mo. Feed-mill. No. 1,312,717; Aug. 12; v. 265; p. 194.
- Zoelly, Heinrich, Zurich, Switzerland. Steam-turbine plant with horizontal axis. No. 1,309,993; July 15; v. 264; p. 432.
- Zollinger, Adalbert, Leipzig-Eutritzsch, Germany. Pneumatically-operated musical instrument having hammers. No. 1,295,668; Feb. 25; v. 259; p. 715.
- Zollinger, Ernst H., and H. Roehling, Berlin, Germany. Preparation of aromatic phenols and their substitution products. No. 1,321,271; Nov. 11; v. 268; p. 236.
- Zona, Ezio, Genoa, Italy. Instrument for navigation and like purposes. No. 1,305,047; May 27; v. 262; p. 585.
- Zonca, Giulio B., Glens Falls, N. Y. Ship's construction. No. 1,297,303; Mar. 11; v. 260; p. 370.
- Zorzi, Carlo, Milan, Italy. Electrode. No. 1,310,727; July 22; v. 264; p. 597.
- Zouck, George H., Orange, N. J., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,299,530; Apr. 8; v. 261; p. 236.
- Zouck, George H., Orange, N. J., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,310,100; July 15; v. 264; p. 451.
- Zouck, George H., Orange, N. J., assignor to Air Reduction Company, Inc. Cutting-blowpipe. No. 1,310,101; July 15; v. 264; p. 451.
- Zouck, George H., Orange, N. J., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,310,104; July 15; v. 264; p. 451.
- Zouck, George H., Orange, N. J., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,310,105; July 15; v. 264; p. 452.
- Zouck, George H., Orange, N. J., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,310,107; July 15; v. 264; p. 452.
- Zouri Drawn Metals Company. (See Murnane, Daniel J., assignor.)
- Zrebic, Rose, Woodlawn, Pa. Window-screen frame. No. 1,324,950; Dec. 16; v. 269; p. 432.
- Zsarnay, Béla, assignor of one-fourth to W. Fay and one-fourth to J. Bischoff, Newark, N. J. Aeroplane. No. 1,325,920; Dec. 23; v. 269; p. 630.
- Zsurka, Peter, Philadelphia, Pa. Permutation-lock. No. 1,320,819; Nov. 4; v. 268; p. 87.
- Zuck, Emerson S. (See Thornton and Zuck.)
- Zuck, Emerson S., Wilkensburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric welding system. No. 1,296,350; Mar. 4; v. 260; p. 121.
- Zucker, Gottlieb F., Berwyn, Ill. Auxiliary priming and air-controlling device for internal-combustion engines. No. 1,306,210; June 10; v. 263; p. 214.
- Zueblin, Ernest, Baltimore, Md. Preparing medicinal articles and products thereof. No. 1,301,210; Apr. 22; v. 261; p. 662.
- Zuka, John, Byesville, Ohio. Railway-track. No. 1,309,170; July 8; v. 264; p. 242.
- Zukoski, Edmund L., St. Louis, Mo. Making concrete. No. 1,316,071; Sept. 16; v. 266; p. 315.
- Zwang, Saul S., *et al.* (See Francis, Alvin A., assignor.)
- Zweeres, William K. (See Kargas and Zweeres.)
- Zwermann, Carl H., Kalamazoo, Mich. Truck for tunnel-kilns. No. 1,306,160; June 10; v. 263; p. 205.
- Zwermann, Carl H., Kalamazoo, Mich. Kiln. No. 1,306,161; June 10; v. 263; p. 205.
- Zwermann, Carl H., Newark, Ohio. Kiln. No. 1,308,973; July 8; v. 264; p. 205.
- Zwierzina, Alois, assignor to Joseph N. Smith & Co., Detroit, Mich. Antirattling door-latch. No. 1,325,970; Dec. 23; v. 269; p. 639.
- Zygiel, Tony. (See Zadorozny, Wasyl, assignor.)
- Zygiel, Tony, Hamilton, Ontario, Canada. Dump-car. No. 1,322,668; Nov. 25; v. 268; p. 601.



# ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

- A. C. Gilbert Company, The. (See Gilbert, Alfred C., assignor.)
- A. G. Spalding & Bros. (See Reach, William F., assignor.)
- A. J. Deer Company, The. (See Wygant, Frederick A., assignor.)
- Abbott, Edna C. (See Close, Elizabeth S., assignor.)
- Achor, Maurice J., Marion, Ind. Flag, pennant, curtain, table-cover, pillow, poster, or an article of similar nature. No. 53,429; June 17; v. 263; p. 456.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. Nos. 53,229-31; Apr. 29; v. 261; pp. 938-9.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. No. 53,265; May 6; v. 262; p. 143.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture bowl. No. 53,280; May 13; v. 262; p. 283.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture urn. No. 53,481; July 8; v. 264; p. 327.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. Nos. 53,696-7; Aug. 19; v. 265; p. 434.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture urn. No. 53,873; Oct. 7; v. 267; p. 131.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. Nos. 53,975-6; Nov. 4; v. 268; pp. 135-6.
- Adams, Edwin B., Marion, Ind. Medicine-tray. No. 53,651; July 29; v. 264; p. 842.
- Adapti Company, The. (See Boyton, John C., assignor.)
- Advance Terra Cotta Company. (See Lewis, Earl S., assignor.)
- Ahlmgren, Walborg, assignor of one-third to C. A. Bursell, New York, N. Y., and one-third to H. C. Karlson, Hasbrouck Heights, N. J. Game-board. No. 53,430; June 17; v. 263; p. 456.
- Ajax Rubber Company. (See Reid, Elmer A., assignor.)
- Albert, George G., Bangor, Pa. Metal fitting. No. 54,301; Dec. 23; v. 269; p. 675.
- Albert Pick & Company. (See Carlson and Pick, assignors.)
- Alexis, Henry F., Fish Lake, Minn. Knot-pin. No. 52,976; Feb. 11; v. 259; p. 356.
- Allen, Alice H., Springfield, Ohio. Flag or the like. No. 54,233; Dec. 9; v. 269; p. 339.
- Allen, Edward E., Rutland, Vt. Statuette. No. 53,026; Mar. 4; v. 260; p. 177.
- Allen, Edward E., Rutland, Vt. Statuette. No. 53,349; May 27; v. 262; p. 623.
- Allen, Edward E., Rutland, Vt. Statuette. No. 53,552; July 15; v. 264; p. 508.
- Allen, James J., Spokane, Wash. Combination shade and curtain bracket. No. 53,027; Mar. 4; v. 260; p. 177.
- American Bank Note Company. (See Major, Alfred S., assignor.)
- American Can Company. (See Corey, Harry R., assignor.)
- American Can Company. (See Hoffman, Edmund, assignor.)
- American Electrical Heater Company. (See Kuhn and Hand, assignors.)
- American Hardware Corporation. (See Stone, Elmer B., assignor.)
- American Lamp Company. (See Bean, Dixon L., assignor.)
- American Optical Company. (See Carson, Oswald B., assignor.)
- American Radiator Company. (See Mertzanoff, André M., assignor.)
- American Safety Razor Company. (See Behrman, Marcus B., assignor.)
- American Silver Company, The. (See Large, Samuel J., assignor.)
- American Telephone and Telegraph Company. (See Thompson, George K., assignor.)
- American Wringer Company, The. (See Holaday, Albert E., assignor.)
- Ames, Louis A., assignor to Annin & Co., New York, N. Y. Banner, flag, pennant, sign, emblem, or article of a similar nature. No. 53,281; May 13; v. 262; p. 284.
- Amsler-Laffon, Elizabeth, New City, N. Y. Surface ornamentation of fabric. Nos. 52,928-40; Feb. 4; v. 259; pp. 158-60.
- Amsler-Laffon, Elizabeth, New City, N. Y. Surface ornamentation of fabric. No. 53,173; Apr. 8; v. 261; p. 393.
- Anderson, George S., Akron, Ohio. Elastic vehicle-tire. No. 53,553; July 15; v. 264; p. 508.
- Anderson, Paul I., assignor to Blackhawk Tire & Rubber Company, Des Moines, Iowa. Non-skid tire. No. 54,193; Nov. 18; v. 268; p. 522.
- Annin & Co. (See Ames, Louis A., assignor.)
- Archbold, Charles L., assignor to The National Refining Company, Cleveland, Ohio. Game-board. No. 53,232; Apr. 29; v. 261; p. 939.
- Arden Manufacturing Corporation. (See Bennett, Clarence W., assignor.)
- Armstrong, Herbert J., Atlantic City, N. J. Combination mirror, razor-strop, and match-igniter. No. 53,282; May 13; v. 262; p. 284.
- Armstrong, Nancy V., Toronto, Ontario, Canada. Outer garment. No. 53,350; May 27; v. 262; p. 623.
- Arney, John W., assignor to A. B. Leith, Chicago, Ill. Child's vehicle. Nos. 52,977-8; Feb. 11; v. 259; p. 356.
- Arnold, Harry C., Brookline, assignor to Converse Rubber Shoe Company, Malden, Mass. Tire. No. 53,108; Mar. 25; v. 260; p. 709.
- Arnold, Samuel S., Toronto, Ontario, Canada. Rocking-chair and cradle attachment. No. 53,392; June 3; v. 263; p. 143.
- Aronson, Louis V., Newark, N. J. Article of manufacture. No. 53,725; Aug. 26; v. 265; p. 584.
- Arrow Grip Manufacturing Co. (See Dippy, Robert H., assignor.)
- Art Hand-Bag Frame Co., The. (See Montroni, Giuseppe, assignor.)
- Art Hand-Bag Frame Co., The. (See Turton, William, assignor.)
- Art in Buttons. (See Monaghan, John S., assignor.)
- Aubero, Emanuel, Brooklyn, N. Y. Warning-signal. No. 52,941; Feb. 4; v. 259; p. 160.
- Automatic Appliance Company, The. (See Mapel, Lewis A., assignor.)
- Averill, William H., assignor to Owl Supply Company, Boston, Mass. Paper-clip. No. 53,554; July 15; v. 264; p. 508.
- Avery, Frank P. (See Gray, James D. M., assignor.)
- B. F. Goodrich Company, The. (See Pierson, Robert M., assignor.)
- B. F. Goodrich Company, The. (See Renner, Irvin R., assignor.)
- B. & K. Manufacturing Co., The. (See Rockwell, Herbert O., assignor.)
- B. R. B. Jewelry Mfg. Co. (See Benjamin, Philip, assignor.)
- Babson, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Milk-pail cover. No. 53,109; Mar. 25; v. 260; p. 709.
- Badger, Oliver L., Plainfield, N. J., assignor to Kerr Adjustable Strap Company, Inc., New York, N. Y. Metal keeper for straps and other like devices. No. 52,942; Feb. 4; v. 259; p. 160.
- Baehr, Hermine, Baltimore, Md. Hat-band. No. 52,905; Jan. 28; v. 258; p. 787.
- Bailey, George R., assignor to Sterling Casket Hardware Company, Brooklyn, N. Y. Casket-handle lug. No. 53,016; Feb. 25; v. 259; p. 756.
- Bailey, Irving R., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Rubber heel. No. 53,060; Mar. 11; v. 260; p. 372.
- Bailey, William J. (See Calvin, James, assignor.)
- Bake-Rite Oven Manufacturing Company. (See Lindsey, Ernest E., assignor.)
- Baker, Corol R., Akron, Ohio. Rubber-tire casing. No. 53,555; July 15; v. 264; p. 508.
- Baker, Stephen D., New York, N. Y. Towel-bar. No. 53,191; Apr. 15; v. 261; p. 603.
- Baker, Stephen D., New York, N. Y. Wall-receptacle for soap and other toilet articles. Nos. 53,556-7; July 15; v. 264; pp. 508-9.
- Bamforth, Harry. (See Vogler, Fred G., assignor.)
- Bandler, Jacob B. (See Powers, Timothy B., assignor.)
- Bandler, Lawrence R., New York, assignor, by mesne assignments, to Pioneer Products, Inc., Malone, N. Y. Rubber sole-pad for boots and shoes. Nos. 54,229-30; Dec. 2; v. 269; p. 151.
- Bandler, Lawrence R., New York, assignor, by mesne assignments, to Pioneer Products, Inc., Malone, N. Y. Rubber heel-pad for boots and shoes. No. 54,231; Dec. 2; v. 269; p. 151.
- Banks, Carl T., *et al.*, trustees. (See Rich, James E., assignor.)
- Baranello, Francesco, Brooklyn, N. Y. Doll's cradle. No. 53,670; Aug. 5; v. 265; p. 123.
- Barber, William J. (See Kerr and Barber.)
- Barber, William J., assignor to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 53,874; Oct. 7; v. 267; p. 131.
- Barger, John W., Ranville, Ill. Collar-button. No. 53,977; Nov. 4; v. 268; p. 136.
- Barley, Albert C., Streator, Ill. Combined automobile body, hood, and radiator. No. 53,652; July 29; v. 264; p. 843.
- Barrett, Colin D., assignor to Gorham Manufacturing Company, Providence, R. I. Article of manufacture. No. 53,061; Mar. 11; v. 260; p. 372.
- Barrows, Robert Y., Rutherford, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Lamp-globe. No. 52,836; Jan. 7; v. 258; p. 202.



## Alphabetical list of patentees of designs—Continued.

- Barry, William, Portland, assignor to The New England Enameling Company, Middletown, Conn. Handle for cooking-pots, dish-pans, or similar articles. No. 54,302; Dec. 23; v. 269; p. 675.
- Bartelmeh, Leonard, Wilkensburg, Pa. Service-button. No. 53,482; July 8; v. 264; p. 327.
- Bartelmeh, Leonard, Wilkensburg, Pa. Service-flag. No. 53,698; Aug. 19; v. 265; p. 434.
- Baudier, Arthur S., et al. (See Samson, Edwin J., assignor.)
- Bauman, Max, New York, N. Y. Article of manufacture. No. 53,351; May 27; v. 262; p. 623.
- Bayley, Robert W., Brooklyn, N. Y., assignor to Bayley & Sons. Lighting-fixture. No. 54,234; Dec. 9; v. 269; p. 339.
- Bayley & Sons. (See Bayley, Robert W., assignor.)
- Bean, Dixon L., Chicago, Ill., assignor to American Lamp Company. Lighting-fixture. Nos. 53,959-62; Oct. 14; v. 267; p. 325.
- Beardslee Chandelier Manufacturing Company. (See Neueder, Robert, assignor.)
- Beatty, Elizabeth M., Washington, D. C. Button, badge, pin, or other similar article. No. 52,943; Feb. 4; v. 259; p. 161.
- Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 53,875; Oct. 7; v. 267; p. 132.
- Becker, August. (See Salminen, Eino, assignor.)
- Beckwith, Louis I. (See Meltz, Julius B., assignor.)
- Becton Dickinson & Co. (See Schwidetzky, Oscar O. R., assignor.)
- Beebe and Runyan Furniture Company. (See Fitch, Almond L., assignor.)
- Beemer, Idalyne M., Los Angeles, Calif. Flag, banner, pennant, sign, emblem, or article of a similar nature. No. 53,699; Aug. 19; v. 265; p. 434.
- Behlen, Charles A., Cincinnati, Ohio. Autotrailer. No. 53,328; May 20; v. 262; p. 451.
- Behn, Guido G., assignor to Essex Motors, Detroit, Mich. Automobile-body. No. 53,979; Nov. 4; v. 268; p. 136.
- Behrman, Marcus B., Tompkinsville, assignor to American Safety Razor Company, Brooklyn, N. Y. Lather-brush. No. 53,980; Nov. 4; v. 268; p. 136.
- Bell, John W., Jr., Brooklyn, N. Y. Flag, pennant, sign, emblem, or article of a similar nature. No. 53,700; Aug. 19; v. 265; p. 434.
- Bellows, Warren S., Worcester, Mass. Tool. No. 54,235; Dec. 9; v. 269; p. 339.
- Belmont, Ralph A., New York, N. Y. Casing for a pendant switch. No. 53,483; July 8; v. 264; p. 327.
- Benedetti, Vincenzo, Palisade, N. J. Shoe-retainer. No. 53,233; Apr. 29; v. 261; p. 939.
- Benjamin, Philip, Brooklyn, assignor to B. R. B. Jewelry Mfg. Co., New York, N. Y. Finger-ring. Nos. 52,837-8; Jan. 7; v. 258; p. 203.
- Bennett, Clarence W., assignor to Arden Manufacturing Corporation, New York, N. Y. Toy aeroplane. No. 53,214; Apr. 22; v. 261; p. 778.
- Bennett, Clarence W., assignor to Arden Manufacturing Corporation, New York, N. Y. Toy automobile. No. 53,215; Apr. 22; v. 261; p. 778.
- Bennett, Clarence W., assignor to Arden Manufacturing Corporation, New York, N. Y. Toy automobile. No. 53,978; Nov. 4; v. 268; p. 136.
- Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. Nos. 53,216-17; Apr. 22; v. 261; p. 778.
- Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Odometer face-plate. No. 53,726; Aug. 26; v. 265; p. 584.
- Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Odometer hub-cap. No. 53,981; Nov. 4; v. 268; p. 136.
- Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Combination-instrument panel. No. 54,194; Nov. 18; v. 268; p. 522.
- Berger, Samuel, Newark, N. J. Combined ice-pick and scoop. No. 54,303; Dec. 23; v. 269; p. 675.
- Bernhard Ulmann Co. (See Pearl, Janet, assignor.)
- Berrent, Rose M., New York, N. Y. Post service-badge. No. 53,982; Nov. 4; v. 268; p. 136.
- Bettum, Jorgen, Brooklyn, N. Y. Writing attachment. No. 52,906; Jan. 28; v. 258; p. 788.
- Beyenberg, William C., Passaic, N. J. Emblematic fabric. Nos. 54,304-5; Dec. 23; v. 269; p. 676.
- Bickel, Earl S. R. (See McClure, De Barthe, and Bickel.)
- Bigney, Sidney O., Attleboro, Mass. Emblem. No. 52,979; Feb. 11; v. 259; p. 356.
- Birch, Richard J. (See Breitenstein, Arthur, assignor.)
- Bischitz, Ferdinand, assignor to Elektra Toy & Novelty Co., New York, N. Y. Statuette or figure. No. 53,701; Aug. 19; v. 265; p. 434.
- Bishop, Minnie R. (See Spiegel, Morris, assignor.)
- Blackhawk Tire & Rubber Company. (See Anderson, Paul I., assignor.)
- Blanc & Company. (See Davis, Elizabeth A., assignor.)
- Blanc & Company. (See Meyer, Felix, assignor.)
- Bland, Perry. (See Creech and Bland.)
- Blankenship, John S., Lynchburg, Va. Combined settee and phonograph-cabinet. No. 53,431; June 17; v. 263; p. 456.
- Bliss, Benjamin N., assignor to Waltham Watch Company, Waltham, Mass. Timepiece-dial. No. 53,110; Mar. 25; v. 260; p. 709.
- Bloch, Leon, Brooklyn, N. Y. Bath-tub and basin fitting. No. 53,558; July 15; v. 264; p. 509.
- Blood, Louis H. (See Oesterlein and Blood.)
- Blossom, Frederick F., et al., executors. (See Woodward, Henry J.)
- Blowers, William R., Omaha, Nebr. Pneumatic tire. Nos. 53,111-14; Mar. 25; v. 260; p. 709.
- Blum, Edith C., assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Article of manufacture. No. 53,192; Apr. 15; v. 261; p. 604.
- Blyth, John W., Great Falls, Mont. Cane, umbrella, whip, or swagger-stick handle. No. 53,193; Apr. 15; v. 261; p. 604.
- Boehringer, Albert, assignor to Edward Miller & Co., Meriden, Conn. Lamp. No. 53,218; Apr. 22; v. 261; p. 778.
- Boehringer, Albert, assignor to Edward Miller & Co., Meriden, Conn. Lamp-shade. No. 53,283; May 13; v. 262; p. 284.
- Boehringer, Albert, assignor to Edward Miller & Co., Meriden, Conn. Pedestal. No. 53,284; May 13; v. 262; p. 284.
- Bohnen, Carl, St. Paul, Minn. Fob, pendant, or similar article. No. 53,144; Apr. 1; v. 261; p. 183.
- Boien, Emerson K., assignor to The Northwestern Novelty Company, Morris, Ill. Casing for vending-machines. No. 53,876; Oct. 7; v. 267; p. 132.
- Boll, Wilhelm H. P., et al. (See Kelman, Harriet E., assignor.)
- Bongardner, Grace T., Los Angeles, Calif. Woman's blouse. No. 53,234; Apr. 29; v. 261; p. 939.
- Boskowitz, Emma W., Watts, Cal. Clothes-hanger. No. 53,028; Mar. 4; v. 260; p. 177.
- Boston Pencil Pointer Company. (See Wilson, Allen P., assignor.)
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Two-pole entrance-switch base. No. 53,162; Apr. 1; v. 261; p. 186.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Two-wire single-branch panel-switch base. No. 53,163; Apr. 1; v. 261; p. 186.
- Bowling Green Rubber Company, The. (See Greene, Charles W., assignor.)
- Boyce, Harrison H., Forest Hills, N. Y. Casing for signal-horns. No. 53,702; Aug. 19; v. 265; p. 435.
- Boye Needle Company, The. (See Flannery, John L., Jr., assignor.)
- Boyles, Charles H., Seattle, Wash. Anchor. No. 53,703; Aug. 19; v. 265; p. 435.
- Boyton, John C., assignor to The Adapti Company, Cleveland, Ohio. Outlet-box. No. 52,944; Feb. 4; v. 259; p. 161.
- Brabson, Frank. (See Buckley, John E., assignor.)
- Brace, Richard D., Nassau, New Providence, Bahama Islands. Combination-tool. No. 53,352; May 27; v. 262; p. 623.
- Braden, Alfred E., Tacoma, Wash. Tire. No. 53,100; Mar. 18; v. 260; p. 545.
- Brady, James H., assignor to Visible Measure Gasoline Dispenser Company of America, Louisville, Ky. Gasoline-dispenser. No. 53,671; Aug. 5; v. 265; p. 124.
- Brauer, Otto M., Gothenburg, Nebr. Toy car. No. 53,219; Apr. 22; v. 261; p. 779.
- Bregman, Joseph, South Brooklyn, N. Y. Overgaiter. No. 53,983; Nov. 4; v. 268; p. 137.
- Bregman, Joseph, South Brooklyn, N. Y. Overgaiter. No. 54,195; Nov. 18; v. 268; p. 522.
- Breitenstein, Arthur, Akron, assignor to R. J. Birch, Cleveland, Ohio. Tire-casing. No. 53,672; Aug. 5; v. 265; p. 124.
- Breitenstein, Arthur, Akron, assignor to R. J. Birch, Cleveland, Ohio. Tire-casing. No. 53,727; Aug. 26; v. 265; p. 584.
- Brendza, Frank C., Cleveland, Ohio. Badge, button, pin, or article or similar nature. No. 53,194; Apr. 15; v. 261; p. 604.
- Brewster, Frank H., assignor to Madison Tire & Rubber Co., Inc., Buffalo, N. Y. Tire-casing. Nos. 54,236-7; Dec. 9; v. 269; pp. 339-40.
- Bridgewater, Jesse B., Empire, Colo. Rail-tie. No. 53,353; May 27; v. 262; p. 624.
- Brightman, Joseph F., assignor to The Syracuse Faucet and Valve Company, Syracuse, N. Y. Radiator-valve casing and handle. No. 53,329; May 20; v. 262; p. 451.
- Brightman, Joseph F., assignor to The Syracuse Faucet and Valve Company, Syracuse, N. Y. Radiator-valve casing and handle. No. 53,405; June 10; v. 263; p. 306.
- Brile, Lawrence M., and L. Lapidus, assignors to United Smelting & Aluminum Co., Inc., New Haven, Conn. Cake of Babbitt metal. No. 53,484; July 8; v. 264; p. 327.
- Brockett, Bluford W., Cleveland Heights, Ohio. Resilient heel. Nos. 53,877-8; Oct. 7; v. 267; p. 132.
- Bromel, Louis, Southington, Conn. Machine-standard. No. 53,432; June 17; v. 263; p. 456.



- Brown, Edwin, assignor to The McClure Publications, Inc., New York, N. Y. Combination set of cooking utensils. No. 53,879; Oct. 7; v. 267; p. 132.
- Brown, William H., Cleveland, Ohio. Spring-oiler. Nos. 53,406-7; June 10; v. 263; p. 306.
- Brumbaugh System, The. (See French, Ira L., assignor.)
- Bruus, Alfred E., Brooklyn, N. Y. Powder-container. Nos. 53,760-841; Sept. 16; v. 266; pp. 409-22.
- Bruns, Alfred E., assignor to Metal Package Corporation of New York, Brooklyn, N. Y. Container for toilet powders. No. 53,984; Nov. 4; v. 268; p. 137.
- Bruns, Alfred E., Brooklyn, N. Y. Powder-container. Nos. 53,985-54,056; Nov. 4; v. 268; p. 137-49.
- Brunswick-Balke-Collender Company, The. (See Maguire, John W., assignor.)
- Buchenau, Lloyd W., Stockton, Calif. Gum and mint case. No. 53,101; Mar. 18; v. 260; p. 545.
- Buchenau, Lloyd W., Stockton, Calif. Gum and mint case. No. 53,880; Oct. 7; v. 267; p. 132.
- Buchenau, Lloyd W., Stockton, Calif. Gum and mint case. No. 54,196; Nov. 18; v. 268; p. 522.
- Buchsbaum, Samuel, Chicago, Ill. Finger-ring or similar article of jewelry. No. 53,062; Mar. 11; v. 260; p. 372.
- Buckle, John V., Salt Lake City, Utah. Emblem, brooch, button, fob, charm, stick-pin, or similar article. No. 53,063; Mar. 11; v. 260; p. 372.
- Buckley, Francis J., New York, N. Y. Flag, banner, pennant, pin, button, emblem, or other similar article. No. 53,064; Mar. 11; v. 260; p. 372.
- Buckley, John E., assignor to one-half to F. Brabson, Newark, N. J. Target. No. 53,881; Oct. 7; v. 267; p. 133.
- Buckley, Warren B., Washington, D. C. Tire. No. 53,653; July 29; v. 264; p. 843.
- Buell, Azel C., assignor to J. T. Coonan, Buffalo, N. Y. Child's vehicle. No. 54,057; Nov. 4; v. 268; p. 149.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. Nos. 53,285-7; May 13; v. 262; pp. 284-5.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. Nos. 53,354-6; May 27; v. 262; p. 624.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade. Nos. 53,357-8; May 27; v. 262; p. 624.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. Nos. 53,433-4; June 17; v. 263; pp. 456-7.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade. No. 53,485; July 8; v. 264; p. 327.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 53,728; Aug. 26; v. 265; p. 584.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade. Nos. 53,559-60; July 15; v. 264; p. 509.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y. Silk fabric. Nos. 53,561-3; July 15; v. 264; pp. 509-10.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 54,058; Nov. 4; v. 268; p. 149.
- Burgess, William S., North Chevy Chase, Md., assignor to Curtiss Aeroplane and Motor Corporation. Hydroaeroplane-pontoon. No. 53,882; Oct. 7; v. 267; p. 133.
- Burgher, Fred H., Lakewood, Ohio. Suction-sweeper casing. No. 53,115; Mar. 25; v. 260; p. 710.
- Burnett-Larsh Manufacturing Company, The. (See Larsh, Everett P., assignor.)
- Burrall, Fred E., assignor to Liberty Tire & Rubber Co., Green Bay, Wis. Tire-tread. No. 54,306; Dec. 23; v. 269; p. 676.
- Burridge, Francis O., executor. (See Burridge, Lee S.)
- Burridge, Lee S., deceased; F. O. Burridge, executor, assignor, by mesne assignments, to Underwood Type-writer Company, New York, N. Y. Type-writing machine. No. 52,907; Jan. 28; v. 258; p. 788.
- Bursell, Charles A., et al. (See Ahlmgren, Walborg, assignor.)
- Burstein, Barnet, Newark, N. J. Automobile-body. No. 53,654; July 29; v. 264; p. 843.
- Burton, John H., Cedarhurst, N. Y., assignor to the Government of the United States. Pennant. No. 52,865; Jan. 14; v. 258; p. 424.
- Butt, Joseph. (See Butt, Samuel and J.)
- Butt, Samuel and J., New York, N. Y. Plate and the like. No. 54,238; Dec. 9; v. 269; p. 340.
- Bve, Edwin A. (See Mayer and Bve.)
- C. H. Eden Company. (See Heath, Thomas, assignor.)
- Caldwell, Eugene S., Philadelphia, Pa. Casing for thermostatic valves. No. 53,393; June 3; v. 263; p. 143.
- Callahan, Michael J., New York, N. Y. Radiator. No. 54,059; Nov. 4; v. 268; p. 149.
- Calvin, James, assignor of one-half to W. J. Bailey, Cleveland, Ohio. Help-self counter. No. 54,239; Dec. 9; v. 269; p. 340.
- Campbell, Charles, Philadelphia, Pa. Pedestal for furniture or similar articles. No. 53,564; July 15; v. 264; p. 510.
- Campbell, Charles and D., Philadelphia, Pa. Picture-frame. No. 53,565; July 15; v. 264; p. 510.
- Campbell, Charles and D., Philadelphia, Pa. Photo frame or stand. No. 53,704; Aug. 19; v. 265; p. 435.
- Campbell, Charles and D., and M. N. McGill, Philadelphia, Pa. Caster-stand. No. 53,566; July 15; v. 264; p. 510.
- Campbell, Charles and D., and M. N. McGill, Philadelphia, Pa. Clothes-stand. No. 54,060; Nov. 4; v. 268; p. 149.
- Campbell, Duncan. (See Campbell, Charles and D.)
- Campbell, Duncan. (See Campbell and McGill.)
- Campbell, Thomas M., North Augusta, S. C. Front of a garage. Nos. 54,061-2; Nov. 4; v. 268; p. 150.
- Champion Ignition Company. (See Berge, Joseph, assignor.)
- Champion Spark Plug Company. (See Rohde, Otto C., assignor.)
- Capron, Horace M., assignor, by mesne assignments, to Equipment Corporation of America, Chicago, Ill. Industrial tractor. No. 53,627; July 22; v. 264; p. 676.
- Carborundum Company, The. (See Tone, Frank J., assignor.)
- Carewell, Richard, Brooklyn, N. Y. Peak-cap. No. 53,288; May 13; v. 262; p. 285.
- Carlin, Simon, Philadelphia, Pa. Ring, bracelet, breast-pin, buckle, or similar article of jewelry. No. 53,195; Apr. 15; v. 261; p. 604.
- Carlson, Olaf, and H. Pick, assignors to Albert Pick & Company, Chicago, Ill. Billiard-cue. No. 52,945; Feb. 4; v. 259; p. 161.
- Carson, Oswald B., assignor to American Optical Company, Southbridge, Mass. Display-stand. No. 53,567; July 15; v. 264; p. 510.
- Carter, Thomas, Englewood, N. J., assignor to Thomas Carter & Sons, Inc. Cut-out card. No. 52,839; Jan. 7; v. 258; p. 203.
- Cartier, Louis J., et al. (See Fuchs, Emil, assignor.)
- Cartier, Pierre C., et al. (See Fuchs, Emil, assignor.)
- Case, Arthur E., assignor to Delta Electric Company, Marion, Ind. Electric lamp. No. 53,568; July 15; v. 264; p. 510.
- Casimier, Marguerite L., Chicago, Ill. Flag. No. 52,946; Feb. 4; v. 259; p. 161.
- Catucci, Pliny, Newark, N. J., assignor to Otto Heineman Phonograph Supply Co., Inc. Casing for phonograph-motors. No. 53,235; Apr. 29; v. 261; p. 939.
- Champion Ignition Company. (See Berge, Joseph, assignor.)
- Champion Spark Plug Company. (See Rohde, Otto C., assignor.)
- Chaney, Lee F., Springfield, Ohio. Protective cap for thermometer-bulbs. No. 53,883; Oct. 7; v. 267; p. 133.
- Channell, Charles A., Chicago, Ill. Mop. No. 52,908; Jan. 28; v. 258; p. 788.
- Chapman, John G., Port Washington, assignor to Sanford Narrow Fabric Co., New York, N. Y. Edging. Nos. 52,980-3; Feb. 11; v. 259; pp. 356-7.
- Charles J. Tagliabue Manufacturing Co. (See Roesch, Alfred, assignor.)
- Cheney Brothers. (See Creange, Henry, assignor.)
- Cheney Talking Machine Company. (See Eggebrecht, William H., assignor.)
- Chicago Coach & Carriage Co. (See Heinrich, Otto W., assignor.)
- Chicago Hardware Foundry Company. (See Knight, Stanley H., assignor.)
- Chipman, William E., Easton, Pa. Stocking. No. 53,435; June 17; v. 263; p. 457.
- Chordas, Julius W., Los Angeles, Calif. Automobile-body. No. 54,240; Dec. 9; v. 269; p. 340.
- Christian, Horace B., Richmond, Va. Bottle. No. 54,241; Dec. 9; v. 269; p. 240.
- Christy, James, Cleveland, assignor to The Portage Rubber Co., Barberton, Ohio. Tire. No. 54,063; Nov. 4; v. 268; p. 150.
- Cierpik, John, Detroit, Mich. Picture-frame. No. 53,842; Sept. 16; v. 266; p. 422.
- Cirkinian, Sarkis A., New York, N. Y. Ash-receiver. No. 53,029; Mar. 4; v. 260; p. 177.
- Claggett, Samuel A., and S. Devall, Los Angeles, Calif. Souvenir-badge. No. 53,486; July 8; v. 264; p. 327.
- Clarke, Christopher W., Chicago, Ill. Ring or similar article of jewelry. No. 53,436; June 17; v. 263; p. 457.
- Clarke, Ira M., Pittsburgh, assignor to The John B. Higbee Glass Company, Bridgeville, Pa. Combined match-box holder and ash-tray. No. 52,840; Jan. 7; v. 258; p. 203.
- Clarke, George H., River Point, R. I. Cotton lace. No. 53,289; May 13; v. 262; p. 285.
- Clarke, Walter H., Akron, Ohio. Rubber heel. No. 53,359; May 27; v. 262; p. 625.
- Clay, Geneva, Doylestown, Pa. Pin, badge, charm, or article of similar nature. No. 53,290; May 13; v. 262; p. 285.
- Clemens, Mathias, Sherburn, Minn. Double clevris. No. 53,408; June 10; v. 263; p. 306.
- Cleveland Gas Burner & Appliance Co. (See Barber, William J., assignor.)
- Cleveland Gas Burner & Appliance Co. (See Kerr and Barber, assignors.)
- Cliff, Ray Y., assignor to Saxon China Company, Sebring, Ohio. Match-holder and ash-tray. No. 54,242; Dec. 9; v. 269; p. 340.



*Alphabetical list of patentees of designs—Continued.*

- Close, Elizabeth S., New York, assignor to E. C. Abbott, Peekskill, N. Y. Bag. No. 52,841; Jan. 7; v. 258; p. 203.
- Cobb, Thomas S., Ormond, Fla. Combined wrench and screw-driver. No. 53,569; July 15; v. 264; p. 511.
- Cogswell, Wilton W., Kansas City, Mo. Toy arrow-plane. No. 53,236; Apr. 29; v. 261; p. 940.
- Cohn, Harry, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Semi-indirect-lighting fixture. No. 53,237; Apr. 29; v. 261; p. 940.
- Cohn, Harry, Brooklyn, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Light-reflecting bowl. No. 54,232; Dec. 2; v. 269; p. 151.
- Cole, Cleveland W., assignor to Cole Duplex Auto Signal Company, Spokane, Wash. Automobile-signal-lamp casing. No. 54,064; Nov. 4; v. 268; p. 150.
- Cole Duplex Auto Signal Company. (See Cole, Cleveland W., assignor.)
- Cole, Roy E., assignor to Liberty Motor Car Company, Detroit, Mich. Lamp-front frame. No. 53,673; Aug. 5; v. 265; p. 124.
- Coleman, William C., Wichita, Kans. Lamp-shade. No. 53,266; May 6; v. 262; p. 143.
- Coles, Samuel L., St. Louis county, Mo. Toy vehicle. No. 53,291; May 13; v. 262; p. 285.
- Collins, Cap B., Oak Park, assignor to Collins Rotary Safety Razor Company, Chicago, Ill. Razor. No. 53,884; Oct. 7; v. 267; p. 133.
- Collins, Cap B., Oak Park, assignor to Collins Rotary Safety Razor Company, Chicago, Ill. Razor-blade. No. 53,885; Oct. 7; v. 267; p. 133.
- Collins Rotary Safety Razor Company. (See Collins, Cap B., assignor.)
- Columbia Ice Cream Horn Company, The. (See Snyder, Jacob L., assignor.)
- Colvin, Arthur R., assignor to The Combination Rubber Mfg Co., Bloomfield, N. J. Rubber tire. No. 53,116; Mar. 25; v. 260; p. 710.
- Colvin, Charles H., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Pocket-compass casing. No. 53,889; Oct. 7; v. 267; p. 134.
- Combination Rubber Mfg Co., The. (See Colvin, Arthur R., assignor.)
- Commerce Motor Car Company, The. (See Granger, Charles I., assignor.)
- Compeck, Genaro, Newark, N. J. Umbrella attachment. No. 53,437; June 17; v. 263; p. 457.
- Comstock, Jackson D., assignor to The Cord Tire Corporation, Chester, W. Va. Tire-casing. No. 54,347; Dec. 30; v. 269; p. 851.
- Cone, Volney E. H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. No. 53,117; Mar. 25; v. 260; p. 710.
- Cone, Volney E. H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. No. 54,243; Dec. 9; v. 269; p. 241.
- Connecticut Electric Manufacturing Company, The. (See T. A. Both, assignor.)
- Connor, Martha H., assignor to Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 53,330; May 20; v. 262; p. 452.
- Connor, Martha H., assignor to Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 53,360; May 27; v. 262; p. 625.
- Connor, Martha H., Baltimore, Md., assignor to Tin Decorating Company of Baltimore. Sifter-top can or similar receptacle. No. 53,674; Aug. 5; v. 265; p. 124.
- Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. Nos. 53,886-8; Oct. 7; v. 267; p. 133.
- Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 54,197; Nov. 18; v. 268; p. 522.
- Continental Distributors. (See Rost, Howard R., assignor.)
- Converse Rubber Shoe Company. (See Arnold, Harry C., assignor.)
- Cook, David L. (See Zimmernan, Guy A., assignor.)
- Cook, Ernest C., Chicago, Ill. Phonograph-cabinet. No. 53,628; July 22; v. 264; p. 676.
- Cook, Ernest C., Chicago, Ill. Phonograph-cabinet. No. 54,198; Nov. 18; v. 268; p. 523.
- Cook, Eugene F., St. Louis, Mo. Packing-ring. No. 53,001; Feb. 18; v. 259; p. 559.
- Cook, Thomas R., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Connector for storage batteries. No. 54,065; Nov. 4; v. 268; p. 150.
- Coonan, John T. (See Buell, Azel C., assignor.)
- Cooper, Ernest H., Kansas City, Mo. Tire. No. 53,292; May 13; v. 262; p. 285.
- Corcoran-Victor Company, The. (See Ryder, Charles D., assignor.)
- Cord Tire Corporation, The. (See Comstock, Jackson D., assignor.)
- Corey, Harry R., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 54,244-5; Dec. 9; v. 269; p. 341.
- Cornish, Harry S., Chicago, Ill. Draft-arm for liquid-dispensing apparatus. No. 54,199; Nov. 18; v. 268; p. 523.
- Corry, Reuben F., Riverton, N. J., assignor to Uplift Publishing Company, Philadelphia, Pa. Letter-head as an article of manufacture. No. 54,066; Nov. 4; v. 268; p. 150.
- Cosgray, Mark C., assignor to The Matthews Engineering Company, Sandusky, Ohio. Combined engine crank-case and dynamo-shell. No. 53,409; June 10; v. 263; p. 307.
- Cottrell, Millard F. (See Hill, John F., assignor.)
- Courtenay, Timothy R., New York, N. Y. Pennant, book-cover, or similar article. No. 53,487; July 8; v. 264; p. 328.
- Crawford, Charles S., Indianapolis, Ind. Automobile-body. No. 54,200; Nov. 18; v. 268; p. 523.
- Creange, Henry, New York, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Flag. No. 53,293; May 13; v. 262; p. 286.
- Creech, Samuel E., and P. Bland, Sullivan, Ill. Hairpin. No. 52,947; Feb. 4; v. 259; p. 161.
- Creech, Samuel E., and P. Bland, Sullivan, Ill. Hairpin. No. 53,030; Mar. 4; v. 260; p. 178.
- Creech, Samuel E., and P. Bland, Sullivan, Ill. Hairpin. No. 53,872; Sept. 16; v. 266; p. 427.
- Creighton, David F., Avalon, Pa. Metal shingle. Nos. 53,102-3; Mar. 18; v. 260; p. 546.
- Crossman, Gertrude E., Attleboro, Mass. Pendant. No. 53,890; Oct. 7; v. 267; p. 134.
- Crowder, Raymond, Edgewood, Pa., assignor to Guarantee Liquid Measure Company, Rochester, N. Y. Globe for lighting-fixtures. No. 53,145; Apr. 1; v. 261; p. 183.
- Cuporak, Andi, Cleveland, Ohio. Salt-box. No. 54,307; Dec. 23; v. 269; p. 676.
- Curtiss Aeroplane and Motor Corporation. (See Burgess, William S., assignor.)
- Custer, Levitt L., Dayton, Ohio. Juvenile automobile. No. 53,891; Oct. 7; v. 267; p. 134.
- Cutbush, Charles, et al. (See Kelman, Harriet E., assignor.)
- Cutting, Otis, Seattle, Wash. Decarbonizer. No. 53,892; Oct. 7; v. 267; p. 135.
- Cyclomobile Mfg. Co. (See Hamel, Charles F., assignor.)
- D'Amara, José B., Fall River, Mass. Button, badge, medal, emblem, or watchcase. No. 53,118; Mar. 25; v. 260; p. 710.
- D. C. Jenkins Glass Company. (See Jenkins, David A., assignor.)
- Dahl, Thure, Brooklyn, assignor to Lightolier Company, New York, N. Y. Bowl-hanger. No. 53,002; Feb. 18; v. 259; p. 560.
- Dahl, Thure, Brooklyn, assignor to Lightolier Company, New York, N. Y. Fixture-arm. No. 53,003; Feb. 18; v. 259; p. 560.
- Dahl, Thure, Brooklyn, assignor to Lightolier Company, New York, N. Y. Bracket-back. No. 53,004; Feb. 18; v. 259; p. 560.
- Dahl, Thure, Brooklyn, assignor to Lightolier Company, New York, N. Y. Combination hook and socket cover lighting-fixture. No. 53,005; Feb. 18; v. 259; p. 560.
- Dale, Ella H., Rochester, N. Y. Truck. No. 53,843; Sept. 16; v. 266; p. 423.
- Dalton, James, Los Angeles, Cal. Reel-oven. No. 52,842; Jan. 7; v. 258; p. 203.
- Dalton, James, Los Angeles, and B. C. De Meulle, assignors to Dalton Oven Co., Long Beach, Calif. Reel-oven. No. 54,067; Nov. 4; v. 268; p. 151.
- Dalton Oven Co. (See Dalton and De Meulle, assignors.)
- Dargent, Charles, Brooklyn, N. Y. Water-heater. No. 53,844; Sept. 16; v. 266; p. 423.
- Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. Nos. 53,729-31; Aug. 26; v. 265; p. 585.
- Davenport, Arthur E., Brooklyn, assignor to The Texas Company, New York, N. Y. Gasolene-pump station. No. 53,893; Oct. 7; v. 267; p. 135.
- Davies, Isaac R., Lakewood, Ohio. Vehicle-tire. Nos. 53,675-7; Aug. 5; v. 265; p. 124.
- Davies, Isaac R., Lakewood, Ohio. Vehicle-tire. No. 54,068; Nov. 4; v. 268; p. 151.
- Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 53,488; July 8; v. 264; p. 328.
- Davis, John F. (See Stansbury and Davis.)
- Davis, Laurence R., Providence, R. I., assignor to Revere Rubber Company. Elastic vehicle-tire. No. 53,410; June 10; v. 263; p. 307.
- Davis, Meyer, Chicago, Ill. Phonograph-cabinet. No. 53,570; July 15; v. 264; p. 511.
- Dayton Rubber Manufacturing Company, The. (See Witsaman, George H., assignor.)
- De Barthe, Penn. (See McClure, De Barthe, and Bickel.)
- De Bellis, Gennaro, Philadelphia, Pa. Speaking-trumpet. No. 52,909; Jan. 28; v. 258; p. 788.
- De Forest, Ella F., New Canaan, Conn. Tobacco-box. No. 53,706; Aug. 19; v. 265; p. 435.
- De Meulle, Bernard C. (See Dalton and De Meulle.)
- De Neergaard, Elma M., New York, N. Y. Loom-frame. No. 52,910; Jan. 28; v. 258; p. 788.
- De Selms, Omar C., Attica, Ind. Phonograph-cabinet. No. 54,201; Nov. 18; v. 268; p. 523.



- De Tamble, Edward S., San Francisco, Calif. Auto-headlight lens. No. 53,489; July 8; v. 264; p. 328.
- De Vilbiss Manufacturing Company, The. (See Gradolph, William F., assignor.)
- De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)
- De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Liquid-spraying instrument. No. 52,974; Feb. 4; v. 259; p. 166.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Bracket-arm for a sewing-machine. Nos. 54,299-300; Dec. 9; v. 269; p. 351.
- Dean, Calvin, Providence, R. I. Emblem, button, ring-top, pin, or article of similar nature. No. 53,705; Aug. 19; v. 265; p. 435.
- Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
- Delman, William, Bridgeport, Ohio. Hat. No. 53,065; Mar. 11; v. 260; p. 373.
- Delta Electric Company. (See Case, Arthur E., assignor.)
- Dencker, John, Manitowoc, Wis. Combination-tool. No. 54,308; Dec. 23; v. 269; p. 676.
- Denman, Walter R., Cleveland, Ohio. Vehicle-tire. No. 53,845; Sept. 16; v. 266; p. 423.
- Denman, Walter R., Cleveland, Ohio. Vehicle-tire. No. 53,894; Oct. 7; v. 267; p. 135.
- Dennett, Fred A., Sheboygan, and W. H. Thommen, Port Washington, assignors to United Phonographs Corporation, Sheboygan, Wis. Phonograph-cabinet. Nos. 52,843-4; Jan. 7; v. 258; p. 204.
- Dennis, Francis R., and H. W. Leavitt, Peoria, Ill. Tractor-hood. No. 53,571; July 15; v. 264; p. 511.
- Dental Manufacturers Supply Co., The. (See Hurtt, James H., Jr., assignor.)
- Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
- Deutsch, Harry J., Columbus, Ohio. Wind-wheel. No. 53,490; July 8; v. 264; p. 328.
- Devall, Samuel. (See Claggett and Devall.)
- Deverall, Charles N., Buffalo, N. Y. Child's vehicle. No. 54,069; Nov. 4; v. 268; p. 151.
- Dialynas, Emmanuel M., Baltimore, Md. Pin and picture-frame. No. 53,707; Aug. 19; v. 265; p. 435.
- Dickinson, Frederick S., New York, N. Y. Tire-casing. No. 53,066; Mar. 11; v. 260; p. 373.
- Dickinson, Frederick S., New York, N. Y. Tire-casing. No. 54,070; Nov. 4; v. 268; p. 151.
- Dickinson, Frederick S., New York, N. Y. Tire-casing. Nos. 54,246-7; Dec. 9; v. 269; pp. 341-2.
- Dills, Henry S., Garrett, Ind. Fish-bait. Nos. 54,071-2; Nov. 4; v. 268; p. 151.
- Dippy, Robert H., Philadelphia, Pa., assignor to Arrow Grip Manufacturing Co., Inc., Glens Falls, N. Y. Display-stand for a non-skid device. No. 52,984; Feb. 11; v. 259; p. 357.
- Diver, Bertice M., Indianapolis, Ind. Automobile fender and lamp. No. 53,572; July 15; v. 264; p. 511.
- Divine, Charles A. (See Wyatt, De Witt H., assignor.)
- Dodge Manufacturing Company. (See Pilkington, Robert G., assignor.)
- Dommenge, Harry F., Jr., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. No. 53,491; July 8; v. 264; p. 328.
- Dooley, Frank P., Chicago, Ill. Metal fabric. No. 53,238; Apr. 29; v. 261; p. 940.
- Downes, Elmer N., Charlotte, N. C. Non-skid tire. No. 54,248; Dec. 9; v. 269; p. 342.
- Downes, Elmer N., assignor to J. & D. Tire Company, Charlotte, N. C. Non-skid tire. No. 53,006; Feb. 18; v. 259; p. 560.
- Downes, Elmer N., assignor to J. & D. Tire Company, Charlotte, N. C. Non-skid tire. No. 53,146; Apr. 1; v. 261; p. 183.
- Dreifuss, Louis, New York, N. Y. Lace medallion. Nos. 52,911-12; Jan. 28; v. 258; pp. 778-9.
- Dreyfus, Adolphe, New York, N. Y. Memorial tablet. No. 52,866; Jan. 14; v. 258; p. 425.
- Dudley, William W., Lancaster, Pa. Movement-frame for watches. No. 53,492; June 8; v. 264; p. 328.
- Dufek, Louis, Tacoma, Wash. Lamp-globe. No. 53,031; Mar. 4; v. 260; p. 178.
- Duncan, Jefferson E. (See Kaupmann, Frederick, Jr., assignor.)
- Dunham, Daniel S., San Antonio, Tex. Lapel-button, fob, ring, or similar article of jewelry. No. 53,895; Oct. 7; v. 267; p. 135.
- Durst, Henry, New York, N. Y. Bath-hose connector. No. 54,309; Dec. 23; v. 269; p. 677.
- Dwyer, Joseph F., Seattle, Wash. Casing for a ticket-dispensing machine. No. 53,678; Aug. 5; v. 265; p. 125.
- E. B. Estes & Sons. (See Estes, Webster C., assignor.)
- E. H. Freeman Electric Company. (See Freeman, Edgar H., assignor.)
- Ean, Margaret W., New York, N. Y. Collar-stiffener. No. 53,896; Oct. 7; v. 267; p. 135.
- Earl, Charles M., Detroit, Mich. Beverage-dispensing stand. No. 53,708; Aug. 19; v. 265; p. 436.
- Eastwood, William J., Philadelphia, Pa. Combined service-flag and photograph-mount. No. 52,867; Jan. 14; v. 258; p. 425.
- Eaton, Crane & Pike Company. (See Pike, William A., assignor.)
- Eberhart, Cleburne, Jr., assignor to Play-O-Lite Co., Inc., Buffalo, N. Y. Piano-lamp and bracket. No. 53,394; June 3; v. 263; p. 144.
- Eclipse Stove Company, The. (See Taylor, Thomas E., assignor.)
- Edelmann, Erich, Chicago, Ill. Hammer. No. 54,162; Nov. 11; v. 268; p. 336.
- Edward Miller & Co. (See Boehringer, Albert, assignor.)
- Edwards, Earl A., Shelley, Idaho. Bucket. No. 53,438; June 17; v. 268; p. 457.
- Egbert, Harry G., Dayton, Ohio. Tire. No. 54,348; Dec. 30; v. 269; p. 852.
- Eggebrecht, William H., Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill. Casing for automatic sound-producing instruments. No. 53,067; Mar. 11; v. 260; p. 373.
- Eggebrecht, William H., Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill. Casing for automatic sound-producing instruments. Nos. 53,573-4; July 15; v. 264; p. 511.
- Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. Nos. 53,294-5; May 13; v. 262; p. 286.
- Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. No. 53,493; July 8; v. 264; p. 329.
- Eisenstadt Manufacturing Company. (See Jacobs, Jacob A., assignor.)
- Eklund, Georg, Berkeley, Calif. Child's velocipede. No. 53,897; Oct. 7; v. 267; p. 136.
- Elektra Toy & Novelty Co. See Bischitz, Ferdinand, assignor.)
- Elliott, Herbert, Toronto, Ontario, Canada. Statuette or similar article. No. 53,119; Mar. 25; v. 260; p. 711.
- Ellis, John S., St. Louis, Mo. Scraper. Nos. 54,310-11; Dec. 23; v. 269; p. 677.
- Emery, Elias J., Malden, Mass. Tap for boots, shoes, or similar articles. No. 53,732; Aug. 26; v. 265; p. 585.
- Empire Phono Parts Company. (See McNamara, William J., assignor.)
- Empire Rubber & Tire Company. (See Murray, Charles E., assignor.)
- Equipment Corporation of America. (See Capron, Horace M., assignor.)
- Ericksen, William A., Brooklyn, N. Y. Snow-skate. No. 53,068; Mar. 11; v. 260; p. 373.
- Erie Tire & Rubber Company, The. (See Forest, Howard H., assignor.)
- Essayan, Harold G., Brookline, Mass. Emblem, badge, stick-pin, or similar article. Nos. 53,032-3; Mar. 4; v. 260; p. 178.
- Essayan, Harold G., Brookline, Mass. Emblem, badge, stick-pin, or similar article. No. 53,846; Sept. 16; v. 266; p. 423.
- Essex Motors. (See Behn, Guido G., assignor.)
- Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
- Estes, Webster C., assignor to E. B. Estes & Sons, New York, N. Y. Pin-holder. No. 53,411; June 10; v. 263; p. 307.
- Etheridge, David S. (See Graham, Robert C., assignor.)
- Everett, Frank W., Brookline, assignor to Sweet-Nut Butter Co., Boston, Mass. Display device. No. 53,361; May 27; v. 262; p. 625.
- Excelsior Steel Furnace Company. (See Scherer, Albert G., assignor.)
- Faerber, William, Chicago, Ill. Shampooing apparatus. No. 53,847; Sept. 16; v. 266; p. 423.
- Fairbanks, James J., Gardner, assignor to The U. S. Toy & Novelty Mfg. Co., Templeton, Mass. Toy Ferris wheel. No. 54,202; Nov. 18; v. 268; p. 523.
- Fairbanks, James J., Gardner, assignor to The U. S. Toy & Novelty Mfg. Co., Templeton, Mass. Merry-go-round. No. 54,203; Nov. 18; v. 268; p. 523.
- Falck, Fritz W. (See McCarty and Falck.)
- Farber, Simon W., Brooklyn, N. Y. Fern-dish or similar article. No. 52,985; Feb. 11; v. 259; p. 357.
- Farmer, Irvin B., Racine, Wis. Toy car. No. 54,249; Dec. 9; v. 269; p. 342.
- Ferris, Otho L., et al. (See Michael, Moine, assignor.)
- Finn, Eli A., Springfield, Mass. Shopping-bag. No. 53,034; Mar. 4; v. 260; p. 178.
- Finn, George, Newark, N. J. Gas-stove top. No. 53,439; June 17; v. 263; p. 457.
- Firestone Tire and Rubber Company, The. (See Wiener, Martin L., assignor.)
- Fisher, John M., Attleboro, Mass. Bracelet, watch-fob, or vest-chain. No. 53,035; Mar. 4; v. 260; p. 178.
- Fisk Rubber Company, The. (See Hubach, Gustave, assignor.)
- Fitch, Almond L., assignor to Beebe and Runyan Furniture Company, Omaha, Nebr. Phonograph-cabinet. No. 53,362; May 27; v. 262; p. 625.
- Fitz Gerald, Harold G., Los Angeles, Calif. Bracket. No. 53,679; Aug. 5; v. 265; p. 125.
- Fitzpatrick, William T., Waterloo, Iowa. Fountain-pen. No. 52,868; Jan. 14; v. 258; p. 425.
- Flannery, John L., Jr., assignor to The Boye Needle Company, Chicago, Ill. Display-cabinet. Nos. 52,869-70; Jan. 14; v. 258; p. 425.



## Alphabetical list of patentees of designs—Continued.

- Flannery, John L., Jr., assignor to The Boye Needle Company, Chicago, Ill. Label. No. 53,120; Mar. 25; v. 260; p. 711.
- Flannery, John L., Jr., assignor to The Boye Needle Company, Chicago, Ill. Display-cabinet. No. 53,680; Aug. 5; v. 265; p. 125.
- Fletcher, Fred S., Forestville, Conn. Combination implement. No. 54,250; Dec. 9; v. 269; p. 342.
- Flint, William G., Los Angeles, Cal. Statuette or similar ornament. No. 52,871; Jan. 14; v. 258; p. 425.
- Flinkkote Company, The. (See Overbury and Platts, assignors.)
- Flynn, John, assignor to The Williams Foundry & Machine Co., Akron, Ohio. Vehicle-tire. No. 53,964; Oct. 14; v. 267; p. 326.
- Flynn, John C., New York, N. Y. Cabinet-desk. No. 53,963; Oct. 14; v. 267; p. 326.
- Fohman, Charles, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Double pedestal for a combined school desk and chair. No. 52,872; Jan. 14; v. 258; p. 425.
- Ford, Henry, Dearborn, Mich. Tractor. No. 53,898; Oct. 7; v. 267; p. 136.
- Forrest, Howard H., Kent, assignor to The Erie Tire & Rubber Company, Cleveland, Ohio. Tire. No. 53,899; Oct. 7; v. 267; p. 136.
- Forsyth, John M., Los Angeles, Cal. Safety knife-guard. No. 52,948; Feb. 4; v. 259; p. 162.
- Fox, Irvin D., Austin, Minn. Liquid measure-mixer. No. 53,069; Mar. 11; v. 260; p. 373.
- Franklin, Herman, assignor to Salz Brothers, New York, N. Y. Statue. No. 53,900; Oct. 7; v. 267; p. 136.
- Fraser, Allan, assignor to Play-O-Lite Company, Buffalo, N. Y. Piano-lamp and bracket. No. 53,395; June 3; v. 263; p. 144.
- Fraser, James E., assignor to Joseph Fahys & Company, New York, N. Y. Spoon, fork, or similar article. No. 53,296; May 13; v. 262; p. 286.
- Fraser, Norman P., Detroit, Mich. Vending-machine. No. 54,163; Nov. 11; v. 268; p. 337.
- Frater, George E., Upper Sandusky, Ohio. Badge, emblem, or similar article of manufacture. No. 53,733; Aug. 26; v. 265; p. 585.
- Free, William C., Rockford, Ill. Sewing-machine cabinet. Nos. 52,873-7; Jan. 14; v. 258; p. 426.
- Free, William C., Rockford, Ill. Sewing-machine cabinet. Nos. 53,196-7; Apr. 15; v. 261; p. 604.
- Freeman, Edgar H., assignor to E. H. Freeman Electric Company, Trenton, N. J. Porcelain pull-socket body. Nos. 53,147-8; Apr. 1; v. 261; p. 183.
- French, Ira L., Chicago, Ill., assignor to The Brumbaugh System. Display-pillar. No. 53,121; Mar. 25; v. 260; p. 711.
- French, William A., Minneapolis, Minn., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-cabinet. Nos. 52,913-14; Jan. 28; v. 258; p. 789.
- Friedline, William H., Meyersdale, Pa. Graphophone-case. No. 53,575; July 15; v. 264; p. 512.
- Friedline, William H., Meyersdale, assignor to Modernola Co., Johnstown, Pa. Graphophone-case. No. 53,734; Aug. 26; v. 265; p. 585.
- Frisch, Emile. (See Spiegel, Morris, assignor.)
- Fritch, Elue O., assignor to Hood Rubber Company, Watertown, Mass. Tire. No. 53,494; July 8; v. 264; p. 329.
- Fritz, Herbert L., Newark, N. J. Confection. No. 54,074; Nov. 4; v. 268; p. 152.
- Froehlich, Morris, Chicago, Ill. Rotary oven. No. 54,075; Nov. 4; v. 268; p. 152.
- Fuchs, Emil, assignor to P. C. Cartier and L. J. Cartier, New York, N. Y. Plaque. Nos. 54,312-13; Dec. 23; v. 269; p. 677.
- Fuchs, Samuel, Columbus, Ohio. Button, badge, emblem, or article of a similar nature. No. 54,076; Nov. 4; v. 268; p. 152.
- Furst, Emil, New York, N. Y. Siphon-bottle top. No. 54,251; Dec. 9; v. 269; p. 342.
- Furst, Emil, New York, N. Y. Siphon-bottle top. No. 52,949; Feb. 4; v. 259; p. 162.
- Gaffney, James C., New York, N. Y. Set of playing-cards. No. 53,576; July 15; v. 264; p. 512.
- Gailey, Florence L., Detroit, Mich. Emblem, pin, or badge. No. 53,174; Apr. 8; v. 261; p. 393.
- Gamache, Clovis, Jr., Nashua, N. H. Frame or plaque. No. 53,577; July 15; v. 264; p. 512.
- Gambill, Charles E., Oak Park, Ill. Casing and frame for a power and lighting plant. No. 54,252; Dec. 9; v. 269; p. 343.
- Gambill, Charles E., Oak Park, Ill. Combined motor and switchboard frame. No. 54,253; Dec. 9; v. 269; p. 343.
- Gardner, Henry L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. No. 54,254; Dec. 9; v. 269; p. 343.
- Gates, Charles C., Denver, Colo. Rubber tire. No. 54,255; Dec. 9; v. 269; p. 343.
- Gates, John G., assignor to The Gates Rubber Company, Denver, Colo. Rubber tire. No. 53,331; May 20; v. 262; p. 452.
- Gates Rubber Company, The. (See Gates, John G., assignor.)
- Gell, John, et al. (See Worth, George E., assignor.)
- General Tire and Rubber Company, The. (See O'Neil, William, assignor.)
- Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Signal-horn. No. 53,220; Apr. 22; v. 261; p. 779.
- George Borgfeldt & Co. (See Wurthmann, George C., assignor.)
- Gevich, Frederick A., Oakland, Calif. Stove-foot. No. 53,221; Apr. 22; v. 261; p. 779.
- Gerhardt, Leonard, assignor to Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 53,412; June 10; v. 263; p. 307.
- Gerhardt, Leonard, assignor to Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 53,496; July 8; v. 264; p. 329.
- Gerhardt, Leonard, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 54,204; Nov. 18; v. 268; p. 524.
- Gerhardt, Leonard, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 53,901; Oct. 7; v. 267; p. 136.
- Gerum, Peter, Vancouver, Wash. Tricycle. No. 53,495; July 8; v. 264; p. 329.
- Giesenhaus, Fred, Muscatine, Iowa. Badge. No. 53,297; May 13; v. 262; p. 286.
- Gilbanks, John P., New York, N. Y. Flower-holder. No. 54,077; Nov. 4; v. 268; p. 152.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy express-wagon. No. 54,078; Nov. 4; v. 268; p. 152.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Child's cart. No. 54,205; Nov. 18; v. 268; p. 524.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy vehicle. Nos. 54,206-7; Nov. 18; v. 268; p. 524.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy hand-truck. No. 54,208; Nov. 18; v. 268; p. 524.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Toy vehicle. No. 54,209; Nov. 18; v. 268; p. 525.
- Gilbert & Barker Manufacturing Company. (See Cone, Volney E. H., assignor.)
- Gilbert & Barker Manufacturing Company. (See Gardner, Henry L., assignor.)
- Gill, George C., assignor to The Holyoke National Bank, Holyoke, Mass. Shield. No. 54,210; Nov. 18; v. 268; p. 525.
- Gill, George F., Tyrone, Pa. Gasolene-pump stand. No. 53,965; Oct. 14; v. 267; p. 326.
- Gillette Rubber Co. (See Stubenvoll, Kurt H., assignor.)
- Gillinder, Edgar A., Philadelphia, Pa. Lighting globe or shade. No. 54,079; Nov. 4; v. 268; p. 152.
- Ginsburg, Maurice, Plumstead, England. Pocket-lighter. No. 54,314; Dec. 23; v. 269; p. 677.
- Glidewell, Alfred, Fayetteville, Tenn. Pack of playing-cards. No. 52,986; Feb. 11; v. 259; p. 357.
- Glidewell, Alfred, Fayetteville, Tenn. Playing-card. No. 52,987; Feb. 11; v. 259; p. 358.
- Glidewell, Alfred, Fayetteville, Tenn. Set of playing-cards. No. 52,988; Feb. 11; v. 259; p. 358.
- Godfrey, George H., Los Angeles, Calif. Ring. No. 53,578; July 15; v. 264; p. 512.
- Goebel, Curt W., Christmas, Ariz. Tea-kettle. No. 52,950; Feb. 4; v. 259; p. 162.
- Goebel, Curt W., Christmas, Ariz. Tea-kettle, double boiler and distiller. No. 52,951; Feb. 4; v. 259; p. 162.
- Goldberg, Abe, Chicago, Ill. Savings-bank. No. 53,579; July 15; v. 264; p. 512.
- Goldberger, Melvin E., Milwaukee, Wis. Brooch, badge, button, insignia, emblem, pin, or similar article of manufacture. No. 53,198; Apr. 15; v. 261; p. 605.
- Goldsmith, Wolf T. (See Jacobs, Leo, assignor.)
- Goldsmith, Wolf T. (See Scalabrino, John, assignor.)
- Goldsmith, Wolf T., Newark, N. J. Bag-frame. No. 53,629; July 22; v. 264; p. 676.
- Goodall, Harry H. (See McKinley and Goodall.)
- Gonsky, Peter R., Chicago, Ill. Combined lamp and phonograph. No. 54,315; Dec. 23; v. 269; p. 678.
- Goodman, Louis, Dubuque, Iowa. Shaving and dressing stand. No. 53,363; May 27; v. 262; p. 625.
- Goodwin, Edward W., Detroit, Mich. Instrument-board for motor-vehicles. No. 53,630; July 22; v. 264; p. 676.
- Goodyear Tire and Rubber Company, The. (See Bailey, Irving R., assignor.)
- Gordon Tire & Rubber Company, The. (See McKone, Charles W., assignor.)
- Gorham Manufacturing Company. (See Barrett, Colin D., assignor.)
- Gorham Manufacturing Company. (See Kingman, William F., assignor.)
- Gorham Manufacturing Company. (See Ring, John H., assignor.)
- Gorham Manufacturing Company. (See Staf, Axel H., assignor.)
- Government of the United States. (See Burton, John H., assignor.)



- Gradolph, William F., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Pressure-regulator head for fluid-pressure tanks. No. 53,497; July 8; v. 264; p. 329.
- Graffin, Alvin J., Montclair, N. J., assignor to Graffin & Dolson, New York, N. Y. Textile fabric. No. 52,989; Feb. 11; v. 259; p. 358.
- Graffin, Alvin J., Montclair, N. J., assignor to Graffin & Dolson, New York, N. Y. Textile fabric. No. 53,364; May 27; v. 262; p. 625.
- Graffin & Dolson. (See Graffin, Alvin J., assignor.)
- Graham, Clarence R., Newark, Calif. Gas and coal combination-stove. No. 54,080; Nov. 4; v. 268; p. 153.
- Graham, Franklin B., Cloverdale, British Columbia, Canada. Culinary utensil. No. 52,990; Feb. 11; v. 259; p. 358.
- Graham, Robert C., assignor of one-half to D. S. Etheridge, Chattanooga, Tenn. Vase for cemetery use. No. 54,081; Nov. 4; v. 268; p. 153.
- Gramlich, Adolph, New York, N. Y. Flag, pennant, sign, emblem, or article of a similar nature. No. 53,298; May 13; v. 262; p. 286.
- Granger, Charles L., assignor to The Commerce Motor Car Company, Detroit, Mich. Radiator-casing. No. 53,413; June 10; v. 263; p. 307.
- Grasberger, Benedict J., Bumpass, Va. Wooden spoon. No. 52,878; Jan. 14; v. 258; p. 426.
- Grasberger, Boniface A., Richmond, Va. Single-service wooden spoon. Nos. 53,587-8; July 15; v. 264; p. 514.
- Grant, Charles H., New York, N. Y. Toy aeroplane. No. 53,902; Oct. 7; v. 267; p. 136.
- Grant, Charles H., New York, N. Y. Toy airplane. No. 54,256; Dec. 9; v. 269; p. 344.
- Gray, James D. M., New York, N. Y., assignor of one-half to F. P. Avery, New Orleans, La. Spark-plug. No. 53,239; Apr. 29; v. 261; p. 940.
- Green, Frank O., assignor to Libby, McNeill & Libby, Chicago, Ill. Bottle or jar. No. 52,952; Feb. 4; v. 259; p. 162.
- Green, Harry E., St. John, New Brunswick, Canada. Necktie-rack. No. 53,440; June 17; v. 263; p. 448.
- Greene, Charles W., assignor to The Bowling Green Rubber Company, Toledo, Ohio. Tire. No. 53,709; Aug. 19; v. 265; p. 436.
- Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle. No. 53,299; May 13; v. 262; p. 287.
- Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Automobile-trimming and the like. No. 53,300; May 13; v. 262; p. 287.
- Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle for an automobile-lock or similar article of manufacture. No. 53,580; July 15; v. 264; p. 512.
- Greene, Frederick E., Mount Vernon, N. Y., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Curtain-fixture for an automobile or similar article of manufacture. No. 53,581; July 15; v. 264; p. 513.
- Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Plate for an automobile-lock or similar article of manufacture. No. 53,582; July 15; v. 264; p. 513.
- Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Rim for a speedometer or a dome-light for an automobile or similar article of manufacture. No. 53,583; July 15; v. 264; p. 513.
- Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle for an automobile-seat or similar article of manufacture. No. 53,584; July 15; v. 264; p. 513.
- Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Rim for a dome-light or a speedometer for an automobile or similar article of manufacture. No. 53,585; July 15; v. 264; p. 513.
- Greene, Frederick E., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Vase for an automobile or similar article of manufacture. No. 53,586; July 15; v. 264; p. 513.
- Greenspan, Marius, Chicago, Ill. Automobile-tire. No. 53,498; July 8; v. 264; p. 329.
- Grether, William, Dayton, Ohio. Portable electric lantern. No. 53,240; Apr. 29; v. 261; p. 940.
- Grier, Frank L., assignor to The L. D. Caulk Company, Milford, Del. Amalgam-remover. No. 53,903; Oct. 7; v. 267; p. 137.
- Grier, Frank L., assignor to The L. D. Caulk Company, Milford, Del. Alloy-scoop. No. 53,904; Oct. 7; v. 267; p. 137.
- Griffith, George H., St. Paul, Minn., assignor to A. C. Townley, W. Lemke, and F. B. Wood, Fargo, N. D. League-button. No. 53,365; May 27; v. 262; p. 626.
- Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Pneumatic tire. No. 53,070; Mar. 11; v. 260; p. 373.
- Gruen, Frederick G., Cincinnati, Ohio. Wrist-watch case. No. 53,655; July 29; v. 264; p. 843.
- Guarantee Liquid Measure Company. (See Crowder, Raymond, assignor.)
- Gullborg, Arthur V., Chicago, Ill. Grease-gun. No. 53,122; Mar. 25; v. 260; p. 711.
- Il. Northwood Company. (See Taylor, Dent A., assignor.)
- H. C. Tack Company, The. (See Hill, Charles K., assignor.)
- H. R. Mallinson & Co. (See Blum, Edith C., assignor.)
- Hadad, David, Highland Park, Mich. Handle for a knife, fork, or spoon. No. 53,241; Apr. 29; v. 261; p. 940.
- Hajewska, Gertruda. (See Wolski and Hajewska.)
- Hall, Peter, Pasadena, Calif. Box. No. 54,211; Nov. 18; v. 268; p. 525.
- Halstrick, William F., Chicago, Ill., assignor to N. Steiner, St. Louis, Mo. Grille or panel for a phonograph-cabinet or similar article. Nos. 54,082-5; Nov. 4; v. 268; p. 153.
- Hamel, Charles F., assignor to Cyclomobile Mfg. Co., Toledo, Ohio. Cyclomobile body and seat. No. 54,316; Dec. 23; v. 269; p. 678.
- Hamill, Edward F., Chicago, Ill. Combined signal and outlet box for electrical conductors. No. 53,905; Oct. 7; v. 267; p. 157.
- Hamill, Rose C., Oakland, Md. Combination cake mixer, beater, turner, lifter, and measuring-spoon. No. 54,164; Nov. 11; v. 268; p. 337.
- Hammons, Sarah F., Chicago, Ill. Record tablet plate, frame, or the like. No. 53,301; May 13; v. 262; p. 287.
- Hance, Isaac I., Cleveland, Ohio. Lighting-fixture. No. 54,317; Dec. 23; v. 269; p. 678.
- Hand, Jay A. (See Kuhn and Hand.)
- Hardin, Bird M., Bivins, Tex. Automobile. No. 54,086; Nov. 4; v. 268; p. 153.
- Hankee, Harry J., Minneapolis, Minn. Electric automobile-signal. No. 53,164; Apr. 1; v. 261; p. 186.
- Hanratty, Thomas H., Butler, Pa. Plate, plaque, platter, or saucer. No. 53,244; Apr. 29; v. 261; p. 941.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Co., Chicago, Ill. Carbid-cup for acetylene-lamps. No. 54,349; Dec. 30; v. 269; p. 852.
- Hansen, Jacob M., assignor to Hartmann-Malcom Co., Chicago, Ill. Electric-lamp standard. No. 53,396; June 3; v. 263; p. 144.
- Hanson, John F., Concord, N. H. Novelty-box. No. 53,499; July 8; v. 264; p. 330.
- Hardin, Richard L. (See Smith, Ray, assignor.)
- Harding, Marcelle J. (See Von Tobel, Fritz O.)
- Harding, Thomas. (See Sommer and Harding.)
- Hardy, Emery E., Bayside, N. Y. Automobile steering-wheel. No. 53,656; July 29; v. 264; p. 843.
- Hargraves, Albert, Akron, Ohio, assignor to Proehl Tire and Rubber Company, Chicago, Ill. Pneumatic tire. No. 54,318; Dec. 23; v. 269; p. 678.
- Harley-Davidson Motor Co. (See Harley, William S., assignor.)
- Harley-Davidson Motor Co. (See Ziska, Adam, Jr., assignor.)
- Harley, Leon J., Jr. (See Hodgetts, Harold W., assignor.)
- Harley, Leon J., Jr., Springfield, Mass. Paper-weight. No. 54,087; Nov. 4; v. 268; p. 154.
- Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Motor-cycle frame. No. 53,150; Apr. 1; v. 261; p. 184.
- Harmon Paper Company. (See Warren, John J., assignor.)
- Harrell, Arlando T., Chicago, Ill. Candy-box. No. 53,017; Feb. 25; v. 259; p. 756.
- Harrell, Arlando T., Chicago, Ill. Button. No. 53,036; Mar. 4; v. 260; p. 178.
- Harris, John R., Pittsburgh, Pa. Smoker's outdoor lighting device. No. 53,242; Apr. 29; v. 261; p. 941.
- Harris, Julius C., New York, N. Y. Article of manufacture. No. 53,243; Apr. 29; v. 261; p. 941.
- Harrison, Benjamin M., Little Rock, Ark. Perpetual calendar. No. 53,500; July 8; v. 264; p. 330.
- Hartley, Bernard W., Haileybury, Ontario, Canada. Automobile-tire. No. 53,589; July 15; v. 264; p. 514.
- Hartline, William A., Penns Grove, N. J. Service-pin. No. 53,501; July 8; v. 264; p. 330.
- Hartmann-Malcom Co. (See Hansen, Jacob M., assignor.)
- Hasenpflug, Nelson T., Geneva, Ohio. Toy bank. No. 53,149; Apr. 1; v. 261; p. 184.
- Haskell, Samuel, New York, N. Y. Doll or statuette. No. 53,037; Mar. 4; v. 260; p. 179.
- Hathaway, Charles F., Rochester, N. Y. Child's vehicle. No. 53,735; Aug. 26; v. 265; p. 586.
- Hauz, Charles F., Brooklyn, N. Y. Molded candy, chocolate, or confection. Nos. 54,212-13; Nov. 18; v. 268; p. 525.
- Haupt, Mathias P., Spokane, Wash. Toy tank. No. 53,681; Aug. 5; v. 265; p. 125.
- Hausen, Charles J., New York, N. Y. Supporting-plate for a hose-supporter. No. 53,302; May 13; v. 262; p. 287.
- Hawkins, Dudley S., C. M. Metsch, and G. Heisler, East Liverpool, Ohio. Velocipede. No. 54,257; Dec. 9; v. 269; p. 344.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Vehicle-lamp. No. 53,123; Mar. 25; v. 260; p. 711.
- Hayne, John T., Detroit, Mich. Running-board for automobiles. No. 53,736; Aug. 26; v. 265; p. 586.



*Alphabetical list of patentees of designs—Continued.*

- Hayne, John T., Detroit, Mich. Mat for automobile running-boards. No. 53,737; Aug. 26; v. 265; p. 586.
- Healy, Martin J., assignor to Victory Manufacturing Company, Chicago, Ill. Memorial tablet. No. 53,848; Sept. 16; v. 266; p. 423.
- Heath, Spencer, Baltimore, Md. Holder or frame for clocks, pictures, or the like. No. 53,906; Oct. 7; v. 267; p. 137.
- Heath, Thomas, assignor to C. H. Eden Company, Attleboro, Mass. Badge. No. 53,175; Apr. 8; v. 261; p. 393.
- Hellbron, Harry, Tulsa, Okla. Badge or emblem. No. 53,849; Sept. 16; v. 266; p. 424.
- Hein, Paul P., New York, N. Y. Headlight-dimmer. No. 53,907; Oct. 7; v. 267; p. 137.
- Heinrich, Otto W., assignor to Chicago Coach & Carriage Co., Chicago, Ill. Roof for an automobile-body. No. 53,441; June 17; v. 263; p. 458.
- Heisler, George. (See Hawkins, Metsch, and Heisler.)
- Heller, Eugene H., assignor to The Hill Pump Valve Company, Chicago, Ill. Automobile-heater. No. 53,124; Mar. 25; v. 260; p. 711.
- Hendrickson, Walter H., Chicago, Ill. Dental-equipment pedestal. No. 53,590; July 15; v. 264; p. 514.
- Henne, Isabelle, Brooklyn, N. Y. Tread-plate for shoeheels. No. 53,502; July 8; v. 264; p. 330.
- Henriot, Maurice. (See Strauss and Henriot.)
- Henry, Gerald J. (See Jordan, Thomas E., assignor.)
- Heyl, Erik, Buffalo, N. Y. Flag, pennant, emblem, sign, or article of similar nature. No. 53,176; Apr. 8; v. 261; p. 393.
- Heywood Brothers & Wakefield Company. (See O'Hearn, George E., assignor.)
- Hill, Charles K., assignor to The H. C. Tack Company, Cleveland, Ohio. Tack or nail. No. 54,088; Nov. 4; v. 268; p. 154.
- Hill, John E., Melrose Highlands, assignor of one-half to M. F. Cottrell, Brookline, Mass. Cigarette-holder. No. 53,267; May 6; v. 262; p. 143.
- Hill Pump Valve Company, The. (See Heller, Eugene H., assignor.)
- Hill, Roy W., Chicago, Ill. Automobile signal-lamp. No. 53,908; Oct. 7; v. 267; p. 137.
- Hill, William G., Brooklyn, N. Y. Toilet-basin. No. 54,089; Nov. 4; v. 268; p. 154.
- Hirshfeld, Dorothy, Los Angeles, Cal. Corset. No. 52,915; Jan. 28; v. 258; p. 789.
- Hitchcock, Lynn N., Sioux City, Iowa. Crochet-needle. No. 53,591; July 15; v. 264; p. 514.
- Hitzeman, William F., Brooklyn, N. Y. Confection-container. No. 53,909; Oct. 7; v. 267; p. 138.
- Hodgetts, Harold W., assignor to L. J. Harley, Jr., Springfield, Mass. Casket-handle. Nos. 54,258-9; Dec. 9; v. 269; p. 344.
- Hoffbauer, Carl F., Montclair, N. J. Flag or emblem. No. 52,879; Jan. 14; v. 258; p. 427.
- Hoffbauer, Carl F., Montclair, N. J. Fob, pendant, brooch, pin, or similar article. No. 53,738; Aug. 26; v. 265; p. 586.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 53,071; Mar. 11; v. 260; p. 374.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Box. No. 53,199; Apr. 15; v. 261; p. 605.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Powder-can. No. 53,200; Apr. 15; v. 261; p. 605.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Powder-container. No. 53,303; May 13; v. 262; p. 287.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Cap or cover for talcum-powder boxes. No. 53,442; June 17; v. 263; p. 458.
- Hoffman, George P., Akron, Ohio. Elastic vehicle-tire. No. 54,090; Nov. 4; v. 268; p. 154.
- Hogan, Daniel, Hoboken, N. J., assignor to Meinecke & Company, New York, N. Y. Bed-pan. No. 53,443; June 17; v. 263; p. 458.
- Hogg, Henry G., Winthrop, Mass. Child's car. No. 53,125; Mar. 25; v. 260; p. 712.
- Holaday, Albert E., Naugatuck, Conn., assignor to The American Wringer Company, Woonsocket, R. I. Pressure-screw for clothes-wringers. No. 53,966; Oct. 14; v. 267; p. 326.
- Holden, Crofton C., assignor to Royal Comb Company, Leominster, Mass. Bag-frame. Nos. 53,414-15; June 10; v. 263; p. 308.
- Holden, Harry M., Jersey City, N. J. Flag. No. 53,503; July 8; v. 264; p. 330.
- Holdridge, Clarence A., Detroit, Mich. Hydropneumatic-press frame. No. 53,910; Oct. 7; v. 267; p. 138.
- Holland, Edward J., Prescott, Ontario, Canada. Combination lamp and gong. No. 54,260; Dec. 9; v. 269; p. 344.
- Hollenbeck, Fred B., Tacoma, Wash. Badge, emblem, button, pin, ring-top, watch-charm, or similar article. No. 53,739; Aug. 26; v. 265; p. 586.
- Hollingsworth, Jephtha G., Kansas City, Mo. Individual dental-plate cleaner. No. 53,366; May 27; v. 262; p. 626.
- Hollywood, Joseph F., Brooklyn, N. Y. Candy tablet or similar article. No. 53,657; July 29; v. 264; p. 843.
- Holsen, Joseph J., Manitowoc, Wis. Combination-tool. No. 53,658; July 29; v. 264; p. 844.
- Holstein, Adolph M., Syracuse, N. Y. Leg for furniture, caskets, and the like. No. 52,880; Jan. 14; v. 258; p. 427.
- Holstein, Adolph M., Syracuse, N. Y. Panel for furniture, casket, interior or exterior decoration. No. 52,881; Jan. 14; v. 258; p. 427.
- Holstein, Adolph M., Syracuse, N. Y. Manufactured panel figure for furniture, casket, cabinet, interior or exterior decoration. No. 52,882; Jan. 14; v. 258; p. 427.
- Holstein, Adolph M., Syracuse, N. Y. Manufactured panel figure for furniture, cabinet, casket, interior or exterior decoration. No. 52,883; Jan. 14; v. 258; p. 427.
- Holstein, Adolph M., Syracuse, N. Y. Manufactured pediment figure for furniture, cabinet, casket, interior or exterior decoration. No. 52,884; Jan. 14; v. 258; p. 427.
- Holstein, Adolph M., Syracuse, N. Y. Panel for furniture, casket, interior or exterior decoration. No. 52,885; Jan. 14; v. 258; p. 428.
- Holstein, Adolph M., Syracuse, N. Y. Manufactured figure for furniture, cabinet, casket, interior or exterior decoration. No. 52,886; Jan. 14; v. 258; p. 428.
- Holstein, Adolph M., Syracuse, N. Y. Manufactured ornamental figure for furniture, cabinet, casket, interior or exterior decoration. No. 52,887; Jan. 14; v. 258; p. 428.
- Holstein, Adolph M., Syracuse, N. Y. Manufactured pediment figure for furniture, cabinet, casket, interior or exterior decoration. No. 52,888; Jan. 14; v. 258; p. 428.
- Holstein, Adolph M., Syracuse, N. Y. Panel for furniture, casket, interior or exterior decoration. Nos. 52,889-90; Jan. 14; v. 258; p. 428.
- Holstein, Adolph M., Syracuse, N. Y. Manufactured panel figure for furniture, cabinet, casket, interior, or exterior decoration. No. 53,007; Feb. 18; v. 259; p. 560.
- Holstein, Adolph M., Syracuse, N. Y. Crest ornament for furniture, casket, interior, or exterior decoration. No. 53,008; Feb. 18; v. 259; p. 561.
- Holstein, William, New York, N. Y. Button, badge, pin, or article of similar nature. No. 53,268; May 6; v. 262; p. 143.
- Holstein, Adolph M., Syracuse, N. Y. Manufactured figure for furniture, casket, interior or exterior decoration. No. 54,319; Dec. 23; v. 269; p. 678.
- Holtom, Albert O., New York, N. Y. Radiator. No. 53,444; June 17; v. 263; p. 458.
- Holyoke National Bank, The. (See Gill, George C., assignor.)
- Horne Manufacturing Company. (See Pendleton, Edwin H., assignor.)
- Hood Rubber Company. (See Fritch, Elue O., assignor.)
- Hooser, John W., Dallas, Tex. Engine-manifold for internal-combustion motors. No. 53,269; May 6; v. 262; p. 143.
- Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Bag for suction-sweepers. No. 53,222; Apr. 22; v. 261; p. 779.
- Hoover Suction Sweeper Company, The. (See Hoover, Howard E., assignor.)
- Hopkinson, Ernest, New York, N. Y. Tire. No. 53,223; Apr. 22; v. 261; p. 779.
- Hopkinson, Ernest, New York, N. Y. Tire. No. 54,261; Dec. 9; v. 269; p. 344.
- Horton, John T., Brooklyn, N. Y. Insulator. No. 52,991; Feb. 11; v. 259; p. 358.
- Howe, Ernest P., Clinton, Mass. Oven turn-table. No. 53,710; Aug. 19; v. 265; p. 436.
- Hubach, Gustave, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Nos. 54,262-4; Dec. 9; v. 269; p. 345.
- Hubbard, Cecil R. (See Knoderer and Hubbard.)
- Hubbard, Cecil R., Baden, and H. G. Knoderer, Edgeworth, assignors to National Metal Molding Company, Pittsburgh, Pa. Flat elbow-base for fittings for electrical-conductor conduits. No. 52,953; Feb. 4; v. 259; p. 162.
- Hubbard, Cecil R., Baden, and H. G. Knoderer, Edgeworth, assignors to National Metal Molding Company, Pittsburgh, Pa. Flat elbow-cap for fittings for electrical-conductor conduits. No. 52,954; Feb. 4; v. 259; p. 163.
- Hubbard, Cecil R., Baden, and H. G. Knoderer, Edgeworth, assignors to National Metal Molding Company, Pittsburgh, Pa. T-base for fittings for electrical-conductor conduits. No. 52,955; Feb. 4; v. 259; p. 163.
- Hubbard, Cecil R., Baden, and H. G. Knoderer, Edgeworth, assignors to National Metal Molding Company, Pittsburgh, Pa. T-cap for fittings for electrical-conductor conduits. No. 52,956; Feb. 4; v. 259; p. 163.
- Hubbard, Cecil R., Baden, and H. G. Knoderer, Edgeworth, assignors to National Metal Molding Company, Pittsburgh, Pa. Reducing-bushing base for fittings for electrical-conductor conduits. No. 53,332; May 20; v. 262; p. 452.
- Hubbard, Cecil R., Baden, and H. G. Knoderer, Edgeworth, assignors to National Metal Molding Company, Pittsburgh, Pa. Bushing-base for fittings for electrical-conductor conduits. No. 53,333; May 20; v. 262; p. 452.



- Hubbard, Cecil R., Baden, and H. G. Knoderer, Edgeworth, assignors to National Metal Molding Company, Pittsburgh, Pa. Internal-elbow base for fittings for electrical-conductor conduits. No. 53,334; May 20; v. 262; p. 452.
- Hubbard, Cecil R., Baden, and H. G. Knoderer, Edgeworth, assignors to National Metal Molding Company, Pittsburgh, Pa. Internal-elbow cap for fittings for electrical-conductor conduits. No. 53,335; May 20; v. 262; p. 453.
- Hubbard & Company. (See Peirce, Charles L., Jr., assignor.)
- Hull, Edgar L., assignor to Waltham Watch Company, Waltham, Mass. Timepiece-dial. No. 53,245; Apr. 29; v. 261; p. 941.
- Humphrey, Clen S., Brooklyn, N. Y. Container for toilet and other powders. No. 53,445; June 17; v. 263; p. 458.
- Humphrey, Clen S., Brooklyn, N. Y. Powder-can or other receptacle. No. 53,850; Sept. 16; v. 266; p. 424.
- Humphrey, Clen S., Brooklyn, N. Y. Cover for a powder-container or similar receptacle. No. 53,911; Oct. 7; v. 267; p. 138.
- Humphrey, Clen S., Brooklyn, N. Y. Receptacle. No. 53,912; Oct. 7; v. 267; p. 138.
- Hunsaker, John E., assignor of one-third to L. Parker and one-third to R. Morray, Vienna, Ill. Chart. No. 53,631; July 22; v. 264; p. 677.
- Hupp Motor Car Corporation. (See Neerken, Adrian J., assignor.)
- Hurt, James H., Jr., Philadelphia, Pa., assignor to The Dental Manufacturers Supply Co. Chemist's mortar. No. 52,957; Feb. 4; v. 259; p. 163.
- Hussey, Edward E., assignor to Sanford Mills, Sanford, Me. Woven pile fabric. No. 54,091; Nov. 4; v. 268; p. 154.
- Huston, Charles P. L., Plainfield, N. J. Tire-casing. No. 53,151; Apr. 1; v. 261; p. 184.
- Huston, Nahum A., Auburn, Me. Combination tail and guide light. No. 54,092; Nov. 4; v. 268; p. 154.
- Hutchison, Miller R., West Orange, N. J. Casing for stapling and fastening machines. No. 53,072; Mar. 11; v. 260; p. 874.
- Hyatt, Frank S., Brooklyn, N. Y. Can-top. No. 53,201; Apr. 15; v. 261; p. 605.
- Hyatt, Frank S., Brooklyn, N. Y. Slip-cap for powder-container tops. No. 54,265; Dec. 9; v. 269; p. 345.
- Ichikawa, Hisataka, New York, N. Y. Ornament for a lamp-shade. No. 52,891; Jan. 14; v. 258; p. 429.
- Iessi, Antonio, New York, N. Y. Doll. No. 53,038; Mar. 4; v. 260; p. 179.
- Imperial Brass Manufacturing Company, The. (See Noyes, William S., assignor.)
- Inlaid Company, The. (See Platt, Eugene P., assignor.)
- Insurance Credit Company, The. (See Plum, William, assignor.)
- International Committee of The Young Men's Christian Associations, The. (See Pratt, Harold I., assignor.)
- International Motor Company. (See Masury, Alfred F., assignor.)
- International Silver Co. (See Beck, Ernest T., assignor.)
- International Silver Co. (See Kintz, Alfred G., assignor.)
- International Silver Company. (See Leech, John, assignor.)
- International Silver Co. (See Ohl, George, assignor.)
- Iowa Cord Tire Company. (See Klopfenstine, Clarence B., assignor.)
- Iowa Gate Company. (See Stevenson, Charles M., assignor.)
- Irwin, Beatrice, New York, N. Y. Light-filter. No. 53,152; Apr. 1; v. 261; p. 184.
- Isaacs, William M., Cleveland, Ohio. Collar-button. No. 53,039; Mar. 4; v. 260; p. 179.
- Isakson, Emil, Anaconda, Mont. Service-button. No. 53,446; June 17; v. 263; p. 459.
- Ishman, Charles C. (See Whitaker and Ishman.)
- Izzo, Francesco, Toronto, Ontario, Canada. Banana-display stand. No. 53,592; July 15; v. 264; p. 514.
- J. Wiss & Sons Company. (See Rau, Frederic H., assignor.)
- J. D. Tire Company. (See Downes, Elmer N., assignor.)
- J. H. Peckham & Sons. (See Charles J. Tonry, assignor.)
- J. H. Parker & Son. (See Parker, William M., assignor.)
- J. L. Sommer Manufacturing Co. (See Sommer, John L., assignor.)
- J. L. Sommer Manufacturing Co. (See Sommer and Harding, assignors.)
- Jacobs, Charles S., assignor to The Over There Mfg. Co., Melrose Highlands, Mass. Service flag, pennant, emblem, or article of a similar nature. No. 53,126; Mar. 25; v. 260; p. 712.
- Jacobs, Jacob A., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Ring. No. 53,913; Oct. 7; v. 267; p. 138.
- Jacobs, Leo, New York, N. Y., assignor to W. T. Goldsmith, Newark, N. J. Hand-bag frame. Nos. 53,632-4; July 22; v. 264; p. 677.
- Jacobs, Michael H., Brooklyn, N. Y. Liquid-soap fixture. No. 53,682; Aug. 5; v. 265; p. 125.
- Jacobson, Ole, assignor to Safety Burglar Alarm Co., Grand Rapids, Mich. Casing for burglar-alarms. No. 54,093; Nov. 4; v. 268; p. 155.
- James Heddon's Sons. (See Stolley, William A., assignor.)
- Janosik, Wendel, Maynard, Ohio. Combined spoon, fork, and knife. No. 53,165; Apr. 1; v. 261; p. 186.
- Jenkins, David A., assignor to D. C. Jenkins Glass Company, Kokomo, Ind. Display-jar. No. 54,214; Nov. 18; v. 268; p. 525.
- Jenks, Barton P., assignor to The Watson Company, Attleboro, Mass. Spoon, fork, or similar article. No. 53,659; July 29; v. 264; p. 844.
- Jensen, Albert O., Omaha, Nebr. Toy. No. 52,892; Jan. 14; v. 258; p. 429.
- Johanson, Emil G. (See Johnson, Gustaf, assignor.)
- Johanson, Emil G., Chicago, Ill. Diffuse color-screen for automobile-headlights. No. 54,320; Dec. 23; v. 269; p. 679.
- John B. Higbee Glass Company, The. (See Clarke, Ira M., assignor.)
- Johnson, Alfred, Chicago, Ill. Shoe or similar article. No. 54,215; Nov. 18; v. 268; p. 526.
- Johnson, Axel H., Brooklyn, N. Y. Display-rack. No. 53,593; July 15; v. 264; p. 514.
- Johnson, Charles R., New Haven, Conn. Watch-holder. No. 53,246; Apr. 29; v. 261; p. 941.
- Johnson, Ernest S., Webster City, Iowa. Poultry-waterer. No. 54,094; Nov. 4; v. 268; p. 155.
- Johnson, Gustaf, assignor to E. G. Johanson, Chicago, Ill. Headlight-lens. No. 54,095; Nov. 4; v. 268; p. 155.
- Johnson, John, Worcester, Mass. Gear-wheel. No. 54,266; Dec. 9; v. 269; p. 345.
- Johnson, Thomas H., Gloucester, N. J. Revolvable or rotatable target. No. 53,914; Oct. 7; v. 267; p. 138.
- Jones, Joseph F., La Grange, Ill. Velocipede. No. 53,127; Mar. 25; v. 260; p. 712.
- Jones, Joseph W., New York, N. Y. Tachometer-casing. No. 53,270; May 6; v. 262; p. 144.
- Jones, Meredith, Scranton, Pa. Stovepipe-reducer. No. 53,504; July 8; v. 264; p. 330.
- Jordan, Roy E., Newark, N. J. Towel-rack. No. 53,683; Aug. 5; v. 265; p. 125.
- Jordan, Thomas E., Malden, and G. J. Henry, Melrose, Mass. Seesaw. No. 54,267; Dec. 9; v. 269; p. 346.
- Joseph Fahys & Company. (See Fraser, James E., assignor.)
- Josephson, Adalbert D., New York, N. Y. Button-display card. No. 53,202; Apr. 15; v. 261; p. 605.
- Judge, Thomas J. (See McHale and Judge.)
- Justrite Manufacturing Company. (See Hansen, Augie L., assignor.)
- Kaempfer, Joseph G., New York, N. Y. Doll-figure. No. 53,915; Oct. 7; v. 267; p. 139.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Glow-reflector. No. 53,916; Oct. 7; v. 267; p. 139.
- Kammann, Karl. (See Stumpp and Kammann.)
- Kaniff, Thomas J., Chicago, Ill. Cigarette-paper case. No. 53,367; May 27; v. 262; p. 626.
- Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Belt-fan. No. 53,967; Oct. 14; v. 267; p. 326.
- Karlson, Henry C., et al. (See Ahlmgren, Walborg, assignor.)
- Kasai, Kanichiro, New York, N. Y. Powder-box, cream-jar, or similar toilet article. No. 53,447; June 17; v. 263; p. 459.
- Kasai, Kanichiro, New York, N. Y. Mirror, hair-brush, or similar toilet article. No. 53,448; June 17; v. 263; p. 459.
- Kaskel, Jesse. (See Weber and Kaskel.)
- Katzenberger, Oscar, Chicago, Ill. Can-opener. No. 53,917; Oct. 7; v. 267; p. 139.
- Katzenstein, Leon L., Worcester, Mass. Adjustable electric-lamp stand. No. 54,096; Nov. 4; v. 268; p. 155.
- Kaufmann, Carl H. (See Kaufmann, Charles F. L., C. H., and W. L.)
- Kaufmann, Charles F. L. and W. L., Santa Ana, Calif. Vehicle-lamp casing and handle-stem. No. 53,178; Apr. 8; v. 261; p. 394.
- Kaufmann, Charles F. L., C. H., and W. L., Santa Ana, Calif. Vehicle-lamp bracket. No. 53,177; Apr. 8; v. 261; p. 393.
- Kaufmann, Waller L. (See Kaufmann, Charles F. L. and W. L.)
- Kaufmann, Waller L. (See Kaufmann, Charles F. L., C. H., and W. L.)
- Kaufmann, Waller L., Santa Ana, Calif. Vehicle-lamp bracket. No. 53,179; Apr. 8; v. 261; p. 394.
- Kaupmann, Frederick, Jr., Brooklyn, N. Y., assignor to J. E. Duncan, Arlington Heights, Mass. Hat-pin, scarf-pin, cuff-link, tie-clip, ring, fob, pendant for neck-chains, pin, or article of manufacture of like character. No. 53,128; Mar. 25; v. 260; p. 712.
- Kawinski, Peter, Buffalo, N. Y. Rat-trap. No. 53,851; Sept. 16; v. 266; p. 424.
- Kays, Charles A., and J. Wilhelm, McKees Rocks, Pa. Frame for film-reels. No. 53,660; July 29; v. 264; p. 844.
- Keedick, Lee, et al. (See Michael, Molina, assignor.)
- Keller, Clarence D., Los Angeles, Calif. Wind-shield. No. 54,097; Nov. 4; v. 268; p. 155.
- Keller, Eugene W., North Bergen, N. J. Flag or banner. Nos. 53,368-9; May 27; v. 262; p. 626.



*Alphabetical list of patentees of designs—Continued.*

- Keller, Joseph F., New York, N. Y. Standard for die-sinking machines. No. 53,073; Mar. 11; v. 260; p. 374.
- Kellogg, Hiosford D., Haverford, Pa. Radiator. No. 53,018; Feb. 25; v. 259; p. 756.
- Kelly, Kieran A., New York, N. Y. Article of manufacture. No. 53,370; May 27; v. 262; p. 626.
- Kelly, Lawrence J., assignor to The McGraw Tire & Rubber Company, East Palestine, Ohio. Rubber tire. No. 53,129; Mar. 25; v. 260; p. 712.
- Kelman, Harriet E., assignor to W. H. Boll, Sydney, New South Wales, and C. Cutbush, Kalgoorlie, Western Australia, Australia. Doll. Nos. 53,449-50; June 17; v. 263; p. 459.
- Kemp, Charles, New York, N. Y. Lock-casing. No. 53,304; May 13; v. 262; p. 287.
- Kendall, William G., Newark, N. J. Closure for talcum-powder cans. No. 52,992; Feb. 11; v. 259; p. 358.
- Kendig, Julian H., Pittsburgh, Pa. Automobile-radiator ornament. No. 53,371; May 27; v. 262; p. 626.
- Kent, Arthur A., Rosemont, Pa. Spring contact-arm. No. 53,852; Sept. 16; v. 266; p. 424.
- Kent, William J., Brooklyn, N. Y., assignor to Revere Rubber Company, Horseshoe-pat. No. 53,635; July 22; v. 264; p. 677.
- Kenyon, Harry L., Satauket, N. Y. Tire-tread. No. 54,321; Dec. 23; v. 269; p. 679.
- Kepler, Jesse S., Dayton, Ohio, and M. O. Kepler, New York, N. Y. Combination nut bowl and cracker. Nos. 53,711-12; Aug. 19; v. 265; p. 436.
- Kepler, Jesse S., Dayton, Ohio, and M. O. Kepler, New York, N. Y. Nutcracker. No. 53,713; Aug. 19; v. 265; p. 436.
- Kepler, Milton O. (See Kepler, Jesse S. and M. O.)
- Kerr Adjustable Strap Company. (See Badger, Oliver L., assignor.)
- Kerr, George W., Racine, Wis. Radiator-hood for automobiles. No. 53,714; Aug. 19; v. 265; p. 437.
- Kerr, Harry E., and W. J. Barber, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. Nos. 53,918-19; Oct. 7; v. 267; p. 139.
- Kerr, Harry E., and W. J. Barber, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 54,098; Nov. 4; v. 268; p. 155.
- Kimball, Philip S., Milford, Mass. Lifting-jack. No. 53,505; July 8; v. 264; p. 330.
- Kimmel, Henry J., Pittsburgh, Pa. Milk-bottle holder. No. 53,853; Sept. 16; v. 266; p. 424.
- Kimpton, Haupt & Co. (See Riley, James T., assignor.)
- Kinder, Agnes, Seattle, Wash. Clothes rack and stand. No. 53,451; June 17; v. 263; p. 459.
- King, Charles S., New Rochelle, assignor to Sanford Narrow Fabric Co., New York, N. Y. Edging. No. 53,740; Aug. 26; v. 265; p. 586.
- King, Thomas J., assignor to King and Winge Shipbuilding Company, Seattle, Wash. Standard and casing for windlasses. No. 54,268; Dec. 9; v. 269; p. 346.
- King and Winge Shipbuilding Company. (See King, Thomas J., assignor.)
- Kingman, William F., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 53,594; July 15; v. 264; p. 515.
- Kintz, Alfred G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 53,074; Mar. 11; v. 260; p. 374.
- Kitt, William C., Cincinnati, Ohio. Box. No. 53,506; July 8; v. 264; p. 331.
- Klapp, Elmer A., New York, N. Y. Badge or similar article of manufacture. No. 53,452; June 17; v. 263; p. 460.
- Kleckler, Henry. (See MacGregor and Kleckler.)
- Klein, William J., New York, N. Y. Button. No. 53,920; Oct. 7; v. 267; p. 139.
- Klenk, Charles, Englewood, N. J., assignor to The Palm Brothers Company, New York, N. Y. Plate or similar article. No. 53,305; May 13; v. 262; p. 287.
- Kletsehka, Emil V., Minneapolis, Minn. Crib. No. 53,854; Sept. 16; v. 266; p. 424.
- Klopfenstine, Clarence B., assignor to Iowa Cord Tire Company, Des Moines, Iowa. Non-skid tire. No. 53,372; May 27; v. 262; p. 627.
- Klotz, Frederick, Reading, Pa. Glass flytrap. No. 53,741; Aug. 26; v. 265; p. 586.
- Knapp, Sidney M., New York, N. Y. Support for a telephone-receiver. No. 54,322; Dec. 23; v. 269; p. 679.
- Knight, Stanley H., Chicago, assignor of one-half to Chicago Hardware Foundry Company, North Chicago, Ill. Soda-fountain unit. No. 54,099; Nov. 4; v. 268; p. 156.
- Knight, Stanley H., Chicago, assignor of one-half to Chicago Hardware Foundry Company, North Chicago, Ill. Soda-fountain dispenser and container. No. 54,100; Nov. 4; v. 268; p. 156.
- Knight, Stanley H., Chicago, assignor of one-half to Chicago Hardware Foundry Company, North Chicago, Ill. Soda-fountain work-board. No. 54,101; Nov. 4; v. 268; p. 156.
- Knight, Stanley H., Chicago, assignor of one-half to Chicago Hardware Foundry Company, North Chicago, Ill. Soda-fountain. No. 54,102; Nov. 4; v. 268; p. 156.
- Knoderer, Homer G. (See Hubbard and Knoderer.)
- Knoderer, Homer G., Edgeworth, and C. R. Hubbard, Baden, assignors to National Metal Molding Company, Pittsburgh, Pa. Corner and twist box for electrical-conductor conduits. No. 53,271; May 6; v. 262; p. 144.
- Kohsiek, John H., Kenmore, assignor to The Oldfield Tire Company, Cleveland, Ohio. Pneumatic tire. No. 53,661; July 29; v. 264; p. 844.
- Kopp, Nicholas, Pittsburgh, Pa. Glass shade or bowl for lighting-fixtures. No. 53,742; Aug. 26; v. 265; p. 587.
- Kopp, Nicholas, Pittsburgh, Pa. Shade. No. 54,103; Nov. 4; v. 268; p. 156.
- Kornstein, Ulrich, New York, N. Y. Crutch. No. 53,968; Oct. 14; v. 267; p. 327.
- Kreider, Tobias S., Bird in Hand, Pa. Article of manufacture. No. 52,993; Feb. 11; v. 259; p. 359.
- Kropé, Magdalene H., New York, N. Y. Finger-ring. No. 53,040; Mar. 4; v. 260; p. 179.
- Krueger, May H., Cleveland, Ohio. Flag, pennant, sign, emblem, or an article of a similar nature. No. 53,130; Mar. 25; v. 260; p. 712.
- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Silk fabric. No. 53,595; July 15; v. 264; p. 515.
- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 53,743; Aug. 26; v. 265; p. 587.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Stove. No. 53,416; June 10; v. 263; p. 308.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric-heater casing. No. 53,417; June 10; v. 263; p. 308.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heater. No. 53,684; Aug. 5; v. 265; p. 126.
- Kurtz, Philip, Philadelphia, Pa. Switchboard. No. 53,180; Apr. 8; v. 261; p. 394.
- L. D. Caulk Company, The. (See Grier, Frank L., assignor.)
- L. D. Caulk Company, The. (See Zurbrigg, Daniel A., assignor.)
- Lafferty, Robert C., New York, N. Y. Article of manufacture. No. 54,323; Dec. 23; v. 269; p. 679.
- Lake, Edgar B. (See Light and Lake.)
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Heating unit for electric radiators. No. 54,350; Dec. 30; v. 269; p. 852.
- Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
- Landis, Abb L., Nashville, Tenn. Game-board. No. 53,041; Mar. 4; v. 260; p. 179.
- Lange, Grace H., San Francisco, Calif. Toy figure. No. 54,104; Nov. 4; v. 268; p. 156.
- Langley, Ralph S., Detroit, Mich., assignor to The Straus Brothers Company, Ligonier, Ind. Paper-weight or similar article. No. 53,203; Apr. 15; v. 261; p. 605.
- Lapides, Louis. (See Brile and Lapides.)
- Large, Samuel J., assignor to The American Silver Company, Bristol, Conn. Handle for a spoon, fork, or similar article. Nos. 53,921-2; Oct. 7; v. 267; p. 140.
- Larsh, Everett P., assignor to The Burnett-Larsh Manufacturing Company, Dayton, Ohio. Pump-casing. No. 53,336; May 20; v. 262; p. 453.
- Laurent, Emil A., Denver, Colo. Lamp. No. 53,306; May 13; v. 262; p. 288.
- Lench, Walter R., Baltimore, Md. Bottle. No. 53,337; May 20; v. 262; p. 453.
- Leavenworth, Seth H., assignor to The Van Bergh Silver Plate Company, Rochester, N. Y. Candelabrum. Nos. 53,307-8; May 13; v. 262; p. 288.
- Leavitt, Harry W. (See Dennis and Leavitt.)
- Lederer, George J., Providence, R. I. Watch-face protector. No. 52,845; Jan. 7; v. 258; p. 204.
- Leech, John, assignor to International Silver Company, Bridgeport, Conn. Spoon, fork, or similar article. No. 53,075; Mar. 11; v. 260; p. 374.
- Lehman, Max R., Quincy, Ill., assignor to Steiger & Kerr Store & Foundry Company, San Francisco, Calif. Stove. Nos. 54,269-70; Dec. 9; v. 269; p. 346.
- Lehr, Max, Brooklyn, N. Y. Banner, flag, pennant, sign, emblem, or article of a similar nature. No. 53,507; July 8; v. 264; p. 331.
- Leith, Alexander B. (See Arney, John W., assignor.)
- Lemke, William, et al. (See Griffith, George H., assignor.)
- Leone, Vito R., New York, N. Y. Body of a stringed musical instrument. No. 52,846; Jan. 7; v. 258; p. 204.
- Levin, Alexander, and J. Medin, Calumet, Mich. Watch-case. Nos. 53,418-19; June 10; v. 263; p. 308.
- Levin, Alexander, and J. Medin, Calumet, Mich. Watch-dial. No. 53,420; June 10; v. 263; p. 309.
- Levin, Jacob, Springfield, Mass. Machine for extracting juice from fruit. No. 54,271; Dec. 9; v. 269; p. 346.
- Lewis, Earl S., assignor to Advance Terra Cotta Company, Chicago, Ill. Cup. No. 53,247; Apr. 29; v. 261; p. 941.
- Lewis, Isaac, Hamilton, Ontario, Canada. Pattern for top-coats. No. 53,131; Mar. 25; v. 260; p. 713.
- Lewis, Isaac, Hamilton, Ontario, Canada. Pattern for sack-coats. No. 53,132; Mar. 25; v. 260; p. 713.
- Libby, McNeill & Libby. (See Green, Frank O., assignor.)



- Libby, McNeill & Libby. (See Taylor, Leroy J., assignor.)  
 Liberty Motor Car Company. (See Cole, Roy E., assignor.)  
 Liberty Tire & Rubber Co. (See Burrall, Fred E., assignor.)  
 Light, Harry B., and E. B. Lake, Los Angeles, Calif. Combined wrench and tire-tool. No. 53,969; Oct. 14; v. 267; p. 327.  
 Lightbourne, Henry, Detroit, Mich. Tire-protector. No. 53,421; June 10; v. 263; p. 309.  
 Lightolier Company. (See Dahl, Thure, assignor.)  
 Lillie, Arthur C., Los Angeles, Calif. Wind-shield for automobiles. No. 53,923; Oct. 7; v. 267; p. 140.  
 Lindley, Jacob, Tiltonsville, Ohio, assignor to Wheeling Sanitary & Manufacturing Company, Wheeling, W. Va. Urinal. Nos. 54,165-6; Nov. 11; v. 268; p. 337.  
 Lindsey, Ernest E., Oroville, assignor to Bake-Rite Oven Manufacturing Company, San Francisco, Calif. Electrical cabinet-oven. No. 54,272; Dec. 9; v. 269; p. 346.  
 Linotype and Machinery Limited. (See Phinney, Frank D., assignor.)  
 Litman, Max, Springfield, Mass. Radiator-core. No. 53,744; Aug. 26; v. 265; p. 587.  
 Lloyd, Converse W., Chicago, Ill., assignor to The Sanifold Co. of California. Tooth-brush. No. 53,453; June 17; v. 263; p. 460.  
 Lo Cascio, Pasquale, Brooklyn, N. Y. Permutation-padlock. No. 53,596; July 15; v. 264; p. 515.  
 Lockwood, Paul M., Kansas City, Mo. Tire-cover. Nos. 54,273-5; Dec. 9; v. 269; p. 347.  
 Loeb, William. (See Weiner and Loeb.)  
 Loring, Helene V. A., Chicago, Ill. Game-card. Nos. 54,216-17; Nov. 18; v. 268; p. 526.  
 Lunt, George C., Greenfield, Mass. Spoon, fork, or similar article. No. 53,685; Aug. 5; v. 265; p. 126.  
 Luttringhaus, Walter, Maywood, Ill. Berlin kettle. No. 53,309; May 13; v. 262; p. 288.  
 Luttringhaus, Walter, Maywood, Ill. Berlin saucepan. No. 53,454; June 17; v. 263; p. 460.  
 M. Schlesinger, Inc. (See Schlesinger, Morris, assignor.)  
 MacGregor, Charles G., and H. Kleckler, Buffalo, N. Y. Hydroaeroplane-pontoon. No. 52,847; Jan. 7; v. 258; p. 204.  
 Macdonald, Angus S., Great Neck Station, N. Y., assignor to The Sneed & Co. Iron Works, Jersey City, N. J. Lamp. No. 53,224; Apr. 22; v. 261; p. 779.  
 Macdonald, Angus S., Great Neck Station, and A. W. Pressey, New York, N. Y., assignors to The Sneed & Co. Iron Works, Jersey City, N. J. Lamp. No. 53,225; Apr. 22; v. 261; p. 780.  
 Macdonald, Angus S., Great Neck Station, and J. Muller, Flushing, N. Y., assignors to The Sneed & Co. Iron Works, Jersey City, N. J. Panel for a lamp or a similar article. No. 53,310; May 13; v. 262; p. 288.  
 Macdonald, Angus S., Great Neck Station, N. Y., assignor to The Sneed & Co. Iron Works, Jersey City, N. J. Ash-tray. No. 53,397; June 3; v. 263; p. 144.  
 Macomber, Lewis E., assignor to Maycase, New York, N. Y. Clock-dial. No. 54,105; Nov. 4; v. 268; p. 157.  
 Madden, James J., Aberdeen, S. D. Lens for headlights. No. 52,848; Jan. 7; v. 258; p. 204.  
 Madison Tire & Rubber Co. (See Brewster, Frank H., assignor.)  
 Maerz, Frederick K., assignor to The Scott-Ullman Co., Cleveland, Ohio. Body-plate for lighting-fixtures. Nos. 53,009-11; Feb. 18; v. 259; p. 561.  
 Maerz, Frederick K., assignor to The Scott-Ullman Co., Cleveland, Ohio. Bracket-arm for lighting-fixtures. Nos. 53,012-14; Feb. 18; v. 259; p. 561-2.  
 Maguire, George E., assignor to Trenton Porcelain Company, Trenton, N. J. Porcelain transmitter-mouth-piece. No. 53,455; June 17; v. 263; p. 460.  
 Maguire, John W., assignor to The Brunswick-Balke-Coller Company, Chicago, Ill. Tire. No. 52,893; Jan. 14; v. 258; p. 429.  
 Maguire, John W., assignor to The Brunswick-Balke-Coller Company, Chicago, Ill. Tire. No. 54,324; Dec. 23; v. 269; p. 679.  
 Major, Alfred S., assignor to American Bank Note Company, New York, N. Y. Bank-note. No. 52,849; Jan. 7; v. 258; p. 205.  
 Malleable Iron Fittings Company. (See Pickop, George B., assignor.)  
 Malone, John H. (See May and Malone.)  
 Mansfield, Etta, New York, N. Y. Doll. No. 53,480; July 1; v. 264; p. 137.  
 Manus Candy Company, The. (See Manus, Robert S., assignor.)  
 Manus, Robert S., assignor to The Manus Candy Company, Cleveland, Ohio. Bar or cake of candy or confectionery. No. 53,422; June 10; v. 263; p. 309.  
 Mappel, Lewis A., assignor to The Automatic Appliance Company, St. Louis, Mo. Statuette. No. 53,042; Mar. 4; v. 260; p. 179.  
 Marcmann, Jacob A., Irvington, N. J. Wrench. No. 53,597; July 15; v. 264; p. 515.  
 Marcus, Alex, Brooklyn, N. Y. Powder-puff. No. 53,398; June 3; v. 263; p. 144.  
 Marienthal, Isaac L., assignor to Modern Belt Co., Chicago, Ill. Belt-buckle. No. 53,598; July 15; v. 264; p. 515.  
 Markowitz, Louis, New York, N. Y. Badge. No. 53,076; Mar. 11; v. 260; p. 374.  
 Markowitz, Louis, New York, N. Y. Badge. No. 53,311; May 13; v. 262; p. 288.  
 Marshall Field & Company. (See McCoy, Charles S., assignor.)  
 Marshall, John B., New York, N. Y. Badge or similar article. No. 54,106; Nov. 4; v. 268; p. 157.  
 Martell, Leonard R., Detroit, Mich. Compression, combustion, and spark-plug tester. No. 53,686; Aug. 5; v. 265; p. 126.  
 Martin, George I., Los Angeles, Calif. Lamp-stand. No. 54,325; Dec. 23; v. 269; p. 679.  
 Martin, Hal R., Edgerton, Wis. Traffic-post. No. 52,916; Jan. 28; v. 258; p. 789.  
 Marusak, Alex, Jerome, Pa. Adz. No. 54,326; Dec. 23; v. 269; p. 680.  
 Mason, Edwin M., assignor to The Supreme Tribe of Ben Hur, Crawfordsville, Ind. Certificate. No. 52,850; Jan. 7; v. 258; p. 205.  
 Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Engine-hood for a motor-vehicle. No. 53,373; May 27; v. 262; p. 627.  
 Mathews, Charles O., Milford, Conn. Tail-light for automobiles. No. 53,248; Apr. 29; v. 261; p. 942.  
 Mathieu, Frederick W., New York, N. Y. Bowl for lighting-fixtures. No. 53,662; July 29; v. 264; p. 845.  
 Mathues, William F., Swarthmore, Pa. Service and memorial tablet. No. 54,107; Nov. 4; v. 268; p. 157.  
 Mathues, William F., Swarthmore, Pa. Service and memorial tablet. No. 54,351; Dec. 30; v. 269; p. 852.  
 Matthews Engineering Company, The. (See Cosgray, Mark C., assignor.)  
 May, Charles, New Britain, Conn. Vending-machine case. No. 52,958; Feb. 4; v. 259; p. 164.  
 May, Oscar D., Oak Park, and J. H. Malone, Chicago, Ill. Badge. No. 53,312; May 13; v. 262; p. 289.  
 Maycase. (See Macomber, Lewis E., assignor.)  
 Mayer Brothers Company. (See Mayer and Bye, assignors.)  
 Mayer, Lorenz L. (See Mayer and Bye.)  
 Mayer, Louis and L. L., and E. A. Bye, assignors to Mayer Brothers Company, Mankato, Minn. Tractor-body. No. 53,508; July 8; v. 264; p. 331.  
 Mayerle, George, San Francisco, Calif. Optician's tool. No. 53,599; July 15; v. 264; p. 515.  
 Mayo, George R., Bowling Green, Ky. Emblem, badge, button, pin, insignia, or article of similar nature. Nos. 54,167-76; Nov. 11; v. 268; pp. 337-9.  
 Mazanec, Joseph, and F. Skarda, New York, N. Y. Mule. No. 54,218; Nov. 18; v. 268; p. 526.  
 Mazza, Charles, Brooklyn, N. Y. Hand-bag frame. No. 53,423; June 10; v. 263; p. 309.  
 McCain, Evelyn M., Canton, Ohio. Garment. No. 54,108; Nov. 4; v. 268; p. 157.  
 McCarthy, John P., and F. W. Falck, Los Angeles, assignors to Pneumatic Surf Fish Company, San Francisco, Calif. Surf-rider. No. 54,109; Nov. 4; v. 268; p. 157.  
 McClure, John, trustee. (See McClure, De Barthe, and Bickel.)  
 McClure, John, P. De Barthe, and E. S. R. Bickel, assignors to J. McClure, trustee, Philadelphia, Pa. Emblematic manufactured figure. No. 53,924; Oct. 7; v. 267; p. 140.  
 McClure Publications, The. (See Brown, Edwin, assignor.)  
 McConnell, Duncan A., Montclair, N. J. Mechanically-actuated diaphragm-horn. No. 52,917; Jan. 28; v. 258; p. 789.  
 McCoy, Charles S., assignor to Marshall Field & Company, Chicago, Ill. Bottle. No. 54,219; Nov. 18; v. 268; p. 526.  
 McDannell, Deatur S., Jr., Moline, Ill. Sign-post. (Re-issue.) No. 14,711; Aug. 19; v. 265; p. 432.  
 McGee, Joseph O., Westpoint, Tenn. Hoe. No. 53,637; July 22; v. 264; p. 678.  
 McGill, M. N. (See Campbell and McGill.)  
 McGill, Merle N. (See Campbell and McGill.)  
 McGraw Tire & Rubber Company, The. (See Kelly, Lawrence J., assignor.)  
 McGraw Tire & Rubber Company, The. (See Park, Clarence S., assignor.)  
 McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watch-bow. No. 53,078; Mar. 11; v. 260; p. 375.  
 McGugin, Albert C., Denver, Colo. Rug. No. 53,925; Oct. 7; v. 267; p. 140.  
 McHale, Paul, and T. J. Judge, Worcester, Mass. Plank for meats and fish. No. 54,110; Nov. 4; v. 268; p. 157.  
 McIntire, John J., San Francisco, Calif. Toy. No. 53,926; Oct. 7; v. 267; p. 140.  
 McKee Glass Company. (See Smith, Maurice A., assignor.)  
 McKimm, Earl L., assignor to Premier Tire and Rubber Company, Kansas City, Mo. Tire. No. 53,855; Sept. 16; v. 266; p. 425.  
 McKinley, Charles W., Toledo, Ohio. Automobile-hood. No. 53,664; July 29; v. 264; p. 845.  
 McKinley, Charles W., Washington, D. C., and H. H. Goodall, assignors to The Willys-Overland Company, Toledo, Ohio. Automobile-body. No. 53,927; Oct. 7; v. 267; p. 141.



## Alphabetical list of patentees of designs—Continued.

- McKinnie, Earle C., assignor to National X-Ray Reflector Co., Chicago, Ill. Lighting-fixture. No. 53,249; Apr. 29; v. 261; p. 942.
- McKone, Charles W., assignor to The Gordon Tire & Rubber Company, Canton, Ohio. Automobile-tire. No. 53,133; Mar. 25; v. 260; p. 713.
- McKone, Charles W., assignor to The Gordon Tire & Rubber Company, Canton, Ohio. Automobile-tire. No. 54,276; Dec. 9; v. 269; p. 347.
- McLaren, Alexander, Chicago, Ill. Ice-cream cone. Nos. 52,894-5; Jan. 14; v. 258; p. 429.
- McLaren, Alexander, Chicago, Ill. Ice-cream cone. Nos. 53,509-10; July 8; v. 264; p. 331.
- McMillan, Albert M., Riverdale, Md. Clock and watch face. No. 54,111; Nov. 4; v. 268; p. 158.
- McNally, Leo P., Brooklyn, N. Y., assignor to D. W. Pye, Red Bank, N. J. Latch member for locks for trap-doors of vestibule railway-cars. No. 52,851; Jan. 7; v. 258; p. 205.
- McNally, Leo P., Brooklyn, N. Y., assignor to D. W. Pye, Red Bank, N. J. Lock for the trap-door of a vestibule railway-car. No. 52,852; Jan. 7; v. 258; p. 205.
- McNamara, William J., assignor to The Empire Phono Parts Company, Cleveland, Ohio. Tone-arm. No. 53,314; May 13; v. 262; p. 289.
- McNamara, William J., assignor to Empire Phono Parts Company, Cleveland, Ohio. Tone-arm. No. 53,456; June 17; v. 263; p. 460.
- Medin, Joseph. (See Levin and Medin.)
- Meeks, Annie L., Gadsden, Ala. Tire. No. 53,511; July 8; v. 264; p. 331.
- Meltz, Julius B., Everett, assignor to L. I. Beckwith, Boston, Mass. Luggage-carrier or similar article. No. 53,970; Oct. 14; v. 267; p. 327.
- Meinecke & Company. (See Hogan, Daniel, assignor.)
- Mergenthaler Linotype Company. (See Mokarzel, Salloum A., assignor.)
- Mergner, Charles, Jr., New York, N. Y. Patriotic badge or poster. No. 53,928; Oct. 7; v. 267; p. 141.
- Morrow, Joseph M., Hartford, Conn. Sewing-machine frame. No. 53,929; Oct. 7; v. 267; p. 141.
- Mertznanoff, André M., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Boiler. No. 53,663; July 29; v. 264; p. 845.
- Messer, Charles J., Syracuse, N. Y. Candle. No. 53,043; Mar. 4; v. 260; p. 180.
- Messer, Charles J., Syracuse, N. Y. Candle. No. 53,077; Mar. 11; v. 260; p. 375.
- Messinger Automatic Sales Corporation. (See Messinger, George E., assignor.)
- Messinger, George E., Birmingham, Ala., assignor, by mesne assignments, to Messinger Automatic Sales Corporation, New York, N. Y. Vending-machine. Nos. 53,272-4; May 6; v. 262; p. 144.
- Metal Package Corporation of New York. (See Bruns, Alfred E., assignor.)
- Metsch, Cassius M. (See Hawkins, Metsch, and Heisler.)
- Meyer, Clifford L., Bellevue borough, Pa. Continuous-web men's hose-supporter. No. 53,313; May 13; v. 262; p. 289.
- Meyer, Felix, New York, N. Y. Lace. Nos. 53,019-21; Feb. 25; v. 259; p. 757.
- Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 53,512-13; July 8; v. 264; p. 332.
- Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 53,636; July 22; v. 264; p. 677.
- Meyers, Hudson R., New Haven, Conn. Miniature honor-board. No. 53,204; Apr. 15; v. 261; p. 605.
- Meyers, Joseph A., assignor of one-half to S. Shapiro, Los Angeles, Calif. Ring. No. 54,112; Nov. 4; v. 263; p. 158.
- Michael, Moïna, assignor of one-half to L. Keedick, New York, N. Y., and one-half to O. L. Ferris, Portland, Ore. Flag or banner. Nos. 53,079-80; Mar. 11; v. 260; p. 375.
- Michael, Moïna, assignor of one-half to L. Keedick, New York, N. Y., and one-half to O. L. Ferris, Portland, Ore. Badge. Nos. 53,081-2; Mar. 11; v. 260; p. 375.
- Michael, Moïna, assignor of one-half to L. Keedick, New York, N. Y., and one-half to O. L. Ferris, Portland, Ore. Badge. No. 53,181; Apr. 8; v. 261; p. 394.
- Michaëlis, William A. E., Seattle, Wash. Vegetable-knife. No. 54,277; Dec. 9; v. 269; p. 347.
- Midgley, Thomas. (See Moody and Midgley.)
- Migel, Julius A., New York, N. Y. Textile fabric. Nos. 53,514-15; July 8; v. 264; p. 332.
- Miller Rubber Company, The. (See Griffiths, Richard T., assignor.)
- Miller, William A., Columbus, Ohio. Automobile-tire. No. 52,959; Feb. 4; v. 259; p. 164.
- Miller, William S., Meyersdale, Pa. Washing-machine tub. No. 53,745; Aug. 26; v. 265; p. 587.
- Mink, Benjamin L., Philadelphia, Pa. Flag. No. 52,896; Jan. 14; v. 258; p. 429.
- Minnesota Store Company, The. (See Nye, Charles W., assignor.)
- Mirabito, Richard W., Webster, Mass. Flag or emblem. No. 53,374; May 27; v. 262; p. 627.
- Mitchell, Augusta V., Washington, D. C. Wheel. No. 52,918; Jan. 28; v. 258; p. 790.
- Mitchell, Harold D., assignor to Norwalk Tire and Rubber Company, Norwalk, Conn. Tire. No. 53,083; Mar. 11; v. 260; p. 376.
- Mitchell Vance Company. (See Strahan, George V., assignor.)
- Mitfinger, George E., Youngstown, Ohio, assignor of fifteen-sixteenths to Pressed Steel Products Company, Sharon, Pa. Faucet-casing. No. 52,919; Jan. 28; v. 258; p. 790.
- Modern Belt Co. (See Marienthal, Isaac L., assignor.)
- Modernola Company. (See Friedline, William H., assignor.)
- Mollanen, Severi, South Paris, Me. Skee. No. 54,113; Nov. 4; v. 268; p. 158.
- Mokarzel, Salloum A., New York, N. Y., assignor to Mergenthaler Linotype Company. Font of Arabic type. No. 53,638; July 22; v. 264; p. 678.
- Moller, John A., New York, N. Y. Picture-frame. No. 52,897; Jan. 14; v. 258; p. 430.
- Monaghan, John S., Rochester, N. Y., assignor to Art in Buttons, Incorporated. Button. No. 53,134; Mar. 25; v. 260; p. 713.
- Monosmith, John R., Rockford, Ill. Toy locomotive. No. 53,856; Sept. 16; v. 266; p. 425.
- Monsen, Adolph, Logansport, Ind. Engine-frame. No. 54,327; Dec. 23; v. 269; p. 680.
- Montroni, Giuseppe, Hoboken, N. J., assignor to The Art Hand-Bag Frame Co., New York, N. Y. Hand-bag frame. No. 53,275; May 6; v. 262; p. 144.
- Montroni, Giuseppe, Hoboken, N. J., assignor to The Art Hand-Bag Frame Co., New York, N. Y. Hand-bag frame. Nos. 53,424-5; June 10; v. 263; p. 309.
- Moody, Curtis L., and T. Midgley, Springfield, Mass. Tire. No. 54,114; Nov. 4; v. 268; p. 158.
- Moore, Harry G., Philadelphia, Pa. Vehicle-body. No. 53,044; Mar. 4; v. 260; p. 180.
- Moore, Thomas M., New York, N. Y. Bottle-stopper. No. 53,746; Aug. 26; v. 265; p. 587.
- Moore, William J. P., New York, N. Y. Automobile-body. Nos. 53,338-40; May 20; v. 262; pp. 453-4.
- Moore, William J. P., New York, N. Y. Wheel. No. 53,426; June 10; v. 263; p. 309.
- Moore, William J. P., New York, N. Y. Wheel. No. 53,639; July 22; v. 264; p. 678.
- Morray, Ralph, et al. (See Hunsaker, John E., assignor.)
- Morrell, Samuel B., Gloversville, N. Y. Cuff for a gauntlet-glove. No. 52,920; Jan. 28; v. 258; p. 790.
- Morrison, Floyd E., Philadelphia, Pa. Display-stand for vials of perfume. No. 52,853; Jan. 7; v. 258; p. 205.
- Morse, Leo, New York, N. Y. Carriage-rattle. No. 53,205; Apr. 15; v. 261; p. 606.
- Moskowitz, Sam, Brooklyn, N. Y. Buffet. No. 53,457; June 17; v. 263; p. 460.
- Mosson, Robert P., El Paso, Tex. Can. No. 53,665; July 29; v. 264; p. 845.
- Mount Vernon Company, Silversmiths, The. (See Greene, Frederick E., assignor.)
- Mountford, Thomas, Newark, N. J. Setting for precious stones. No. 53,600; July 15; v. 264; p. 515.
- Mudge & Company. (See Vanatta, Jean K., assignor.)
- Muehlstein, William F., Atascadero, Cal. Gas-saving plate. No. 52,921; Jan. 28; v. 258; p. 790.
- Mueller, Gabriel, Cincinnati, Ohio. Emblem, flag, pendant or article of similar nature. No. 53,045; Mar. 4; v. 260; p. 180.
- Muller, John. (See Macdonald and Muller.)
- Murray, Charles E., Jr., assignor to Empire Rubber & Tire Company, Trenton, N. J. Tire. No. 54,278; Dec. 9; v. 269; p. 347.
- Myers, Harry B., Cherokee, Kans. Military-service badge. No. 53,458; June 17; v. 263; p. 461.
- National Metal Molding Company. (See Hubbard and Knoderer, assignors.)
- National Metal Molding Company. (See Knoderer and Hubbard, assignors.)
- National Refining Company, The. (See Archbold, Charles L., assignor.)
- National X-Ray Reflector Co. (See McKinnie, Earle C., assignor.)
- Nay, Howard E., Wheeling, W. Va. Plaque-mounting for military helmets. No. 53,930; Oct. 7; v. 267; p. 141.
- Neerken, Adrian J., Detroit, Mich., assignor to Huyp Motor Car Corporation, Richmond, Va. Vehicle-body. No. 53,250; Apr. 29; v. 261; p. 942.
- Nelson, Charles, Brooklyn, assignor to S. Sternau & Company, New York, N. Y. Lamp-stand. No. 53,022; Feb. 25; v. 259; p. 757.
- Nelson, Victor A., Seattle, Wash. Combined pinch-bar and nail-puller. No. 52,960; Feb. 4; v. 259; p. 164.
- Neuder, Robert, Hollywood, assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Shade for lighting-fixtures. No. 53,341; May 20; v. 262; p. 454.
- Neuder, Robert, Hollywood, assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Bowl for lighting-fixtures. No. 53,342; May 20; v. 262; p. 454.
- New England Enameling Company, The. (See Barry, William, assignor.)
- New Jersey Patent Company. (See French, William A., assignor.)
- Newhall, Henry B., Jr., executor. (See Pleister, Henry W., assignor.)



- Nicholson, Isaac C., Providence, R. I. Emblem, button, ring, pin, or article of similar nature. No. 53,251; Apr. 29; v. 261; p. 942.
- Nock, Harold E. and G. F. Parker, assignors to Towle Manufacturing Company, Newburyport, Mass. Tray, dish, plate, platter, bowl, compote, basket, or analogous article of hollow ware. No. 53,315; May 13; v. 262; p. 289.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Handle for spoons or analogous articles. Nos. 54,177-9; Nov. 11; v. 268; p. 339.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Article of manufacture. No. 54,328; Dec. 23; v. 269; p. 680.
- Noke, Charles J., Stoke-upon-Trent, England, assignor to William S. Pitcairn Corporation, New York, N. Y. Plate or similar article. No. 53,252; Apr. 29; v. 261; p. 942.
- North America Lace Company. (See Daudy, Marc H., assignor.)
- Northwestern Novelty Company, The. (See Bolen, Emerson B., assignor.)
- Norwalk, Albert B., New York, N. Y. Doll. Nos. 53,084-5; Mar. 11; v. 260; p. 376.
- Norwalk Tire and Rubber Company. (See Mitchell, Harold D., assignor.)
- Norwood, Harry Y., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer-support. No. 54,352; Dec. 30; v. 269; p. 852.
- Nowick, George, Kansas City, Mo. Elastic vehicle-tire. No. 54,329; Dec. 23; v. 269; p. 680.
- Noyes, William S., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Bench-valve. No. 52,961; Feb. 4; v. 259; p. 164.
- Nye, Charles W., Minneapolis, Minn., assignor to The Minnesota Stove Company, Range. No. 54,279; Dec. 9; v. 269; p. 348.
- O'Donnell, Thomas, Ironwood, Mich. Electric-light receptacle. No. 53,375; May 27; v. 262; p. 627.
- O'Hearn, George E., assignor to Heywood Brothers & Wakefield Company, Gardner, Mass. Baby-carriage chassis. No. 53,932; Oct. 7; v. 267; p. 141.
- O'Hearn, George E., assignor to Heywood Brothers and Wakefield Company, Gardner, Mass. Running-gear of a baby-carriage. No. 53,933; Oct. 7; v. 267; p. 142.
- O'Neil, William, assignor to The General Tire and Rubber Company, Akron, Ohio. Automobile-tire. No. 53,316; May 13; v. 262; p. 289.
- O'Neill, Henry G. (See Pearson and O'Neill.)
- Ober, Katharine H., Tarrytown, N. Y. Loving-cup. No. 53,857; Sept. 16; v. 266; p. 425.
- Oberdorfer, Henry D., Quincy, Ill. Easel. No. 53,516; July 8; v. 264; p. 532.
- Oberheu, Frederick A., Detroit, Mich. Tire. No. 53,931; Oct. 7; v. 267; p. 141.
- Odenkirk, Harry C., Cleveland, Ohio. Waste-water trap. No. 53,747; Aug. 26; v. 265; p. 587.
- Oesterlein, Charles D., and L. H. Blood, assignors to The Oesterlein Machine Company, Cincinnati, Ohio. Milling-machine frame. No. 53,687; Aug. 5; v. 265; p. 126.
- Oesterlein Machine Company, The. (See Oesterlein and Blood, assignors.)
- Oestreich, Maurice, New York, N. Y. Bedspread. No. 53,601; July 15; v. 264; p. 516.
- Oestreich, Maurice, New York, N. Y. Article of manufacture. No. 53,602; July 15; v. 264; p. 516.
- Ohl, George, assignor to International Silver Co., Meriden, Conn. Napkin-holder. No. 53,603; July 15; v. 264; p. 516.
- Oldfield Tire Company, The. (See Kobsiek, John H., assignor.)
- Oldfield Tire Company, The. (See Wiener, Martin L., assignor.)
- Onderdonk, Lansing, New York, N. Y. Sewing-machine frame. No. 52,854; Jan. 7; v. 258; p. 205.
- Onderdonk, Wesley N., Utica, N. Y. Steering-post support for automobiles. No. 53,517; July 8; v. 264; p. 332.
- Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. No. 53,459; June 17; v. 263; p. 461.
- Orcutt, Leon F., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. No. 53,518; July 8; v. 264; p. 333.
- Orkin, Robert H. (See Stein and Orkin.)
- Orr, Ernest B., Philadelphia, Pa. Game-board. No. 52,994; Feb. 11; v. 259; p. 359.
- Orr, William V., Cleveland, Ohio. Suction-cleaner casing. No. 52,998; Jan. 14; v. 258; p. 430.
- Osbrink, Harry W., Riverside, Calif. Figure toy. No. 54,280; Dec. 9; v. 269; p. 348.
- Osius, Adolph P., Detroit, Mich. Ice-cream measure. No. 53,135; Mar. 25; v. 260; p. 713.
- Osius, Adolph P., Detroit, Mich. Ice-cream disher. No. 54,221; Nov. 18; v. 268; p. 526.
- Otto Heineman Phonograph Supply Co. (See Catucci, Pliny, assignor.)
- Over There Mfg. Co., The. (See Jacobs, Charles S., assignor.)
- Overbury, Frederick C., New York, N. Y., and H. C. Platts, Rutherford, N. J., assignors, by mesne assignments, to The Flintkote Company, Boston, Mass. Roof or wall covering. No. 53,015; Feb. 18; v. 259; p. 562.
- Overbury, Frederick C., Hillsdale, N. J. Roofing element. Nos. 53,086-7; Mar. 11; v. 260; p. 376.
- Oversmith, Clarence D., Lima, Ohio. Advertising display-case. No. 53,688; Aug. 5; v. 265; p. 126.
- Owen, Raymond V., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Table-lamp. No. 53,519; July 8; v. 264; p. 333.
- Owen, Raymond V., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lighting-fixture. No. 53,520; July 8; v. 264; p. 333.
- Owen, William C., Cleveland, Ohio. Tire-casing. No. 54,330; Dec. 23; v. 269; p. 681.
- Owl Supply Company. (See Averill, William H., assignor.)
- Palm Brothers Company, The. (See Klenk, Charles, assignor.)
- Palmquist, August P., Galesburg, Ill. Washbench. No. 54,117; Nov. 4; v. 268; p. 159.
- Pangborn, Leo D., Eau Claire, Wis. Doll or baby carriage body. No. 53,523; July 8; v. 264; p. 333.
- Pape, Herman G., New York, N. Y. Telephone-earpiece or similar phonetic device. No. 53,460; June 17; v. 263; p. 461.
- Park, Clarence S., assignor to The McGraw Tire & Rubber Company, East Palestine, Ohio. Rubber tire. No. 52,899; Jan. 14; v. 258; p. 430.
- Parker, George F. (See Nock and Parker.)
- Parker, George F., assignor to Towle Manufacturing Company, Newburyport, Mass. Article of manufacture. No. 54,331; Dec. 23; v. 269; p. 681.
- Parker, Lucas, et al. (See Hunsaker, John E., assignor.)
- Parker, William M., assignor to J. H. Parker & Son, Incorporated, Parkersburg, W. Va. Plural socket. No. 53,640; July 22; v. 264; p. 678.
- Pasedach, John A., Chicago, Ill. Toy. No. 53,461; June 17; v. 263; p. 461.
- Pashek, Albert L., Newark, N. J. Tire. No. 52,962; Feb. 4; v. 259; p. 164.
- Patrick, Frank H., Gandy, La. Article of manufacture. No. 53,206; Apr. 15; v. 261; p. 606.
- Pearce, Arthur E., Ashtabula, Ohio. Tire or tire-casing. No. 53,858; Sept. 16; v. 266; p. 425.
- Pearce, Arthur E., Ashtabula, Ohio. Tire. No. 53,971; Oct. 14; v. 267; p. 327.
- Pearl, Janet, Mount Beacon, assignor to Bernhard Ulmann Co., Inc., New York, N. Y. Crocheted or knitted wrap. No. 52,855; Jan. 7; v. 258; p. 206.
- Pearson, Ward E., and H. G. O'Neill, New York, N. Y. Portable electric lamp. Nos. 53,207-8; Apr. 15; v. 261; p. 606.
- Peirce, Charles L., Jr., Pittsburgh, Pa., assignor of one-half to Hubbard & Company, Insulator. No. 53,522; July 8; v. 264; p. 333.
- Pendleton, Edwin H., San Francisco, Calif., assignor to Home Manufacturing Company. Child's car. No. 53,934; Oct. 7; v. 267; p. 142.
- Pergl, Otto, Cleveland, Ohio. Wire-entanglement cutter. No. 53,104; Mar. 18; v. 260; p. 546.
- Perlstein, Joseph, Chicago, Ill. Collar. No. 53,046; Mar. 4; v. 260; p. 180.
- Peruzzi, Mario, assignor to Planters Nut and Chocolate Company, Wilkes-Barre, Pa. Box. No. 54,222; Nov. 18; v. 268; p. 526.
- Peterson, Ferdinand B., New York, N. Y. Wafer. No. 52,856; Jan. 7; v. 258; p. 206.
- Pehtel, John F., Kuna, Idaho. Match-scratcher. No. 53,521; July 8; v. 264; p. 333.
- Pfeaffle, Robert E., San Francisco, Calif. Combined radiator casing and hood. No. 54,118; Nov. 4; v. 268; p. 159.
- Pfeffer, Genevieve, San Jose, Calif. Doll. Nos. 53,153-4; Apr. 1; v. 261; p. 185.
- Pfister, John J., Berkeley, Calif. Baby's hood. No. 54,119; Nov. 4; v. 268; p. 159.
- Pfium, William, assignor to The Insurance Credit Company, Dayton, Ohio. Token-coin. No. 53,462; June 17; v. 263; p. 461.
- Phelan, Laura C. (See Smith, Theodore M., assignor.)
- Phillips, Ernest S., assignor to The Yale Tire & Rubber Co., New Haven, Conn. Tire. Nos. 54,120-1; Nov. 4; v. 268; p. 159.
- Phillips, Herbert A., Cleveland, Ohio. Picture and service-record frame. No. 52,963; Feb. 4; v. 259; p. 164.
- Phinney, Frank D., Rancoon, Burma, assignor to Linotype and Machinery Limited, London, England. Font of Burmese type. No. 52,922; Jan. 28; v. 258; p. 790.
- Pick, Hugo. (See Carlson and Pick.)
- Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Branford, Conn. Air-blast cleaning device. No. 53,399; June 3; v. 263; p. 144.
- Pickop, George B., New Haven, assignor to Malleable Iron Fittings Company, Branford, Conn. Fitting. Nos. 53,689-90; Aug. 5; v. 265; p. 126.
- Pierce-Arrow Motor Car Company, The. (See Way, James R., assignor.)
- Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic tire. Nos. 54,122-4; Nov. 4; v. 268; pp. 159-60.
- Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tank-bulb. No. 54,223; Nov. 18; v. 268; p. 527.
- Pike, Charles W. (See Pike, Robert D., assignor.)



## Alphabetical list of patentees of designs—Continued.

- Pike, Robert D., assignor to C. W. Pike, San Francisco, Calif. Display-holder. No. 53,604; July 15; v. 264; p. 516.
- Pike, Robert D., assignor to C. W. Pike, San Francisco, Calif. Multiple display-holder. No. 53,605; July 15; v. 264; p. 516.
- Pike, William A., assignor to Eaton, Crane & Pike Company, Pittsfield, Mass. Display-card. No. 52,923; Jan. 28; v. 258; p. 790.
- Pilkington, Robert G., Chicago, Ill., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Package-delivery-car body. No. 53,400; June 3; v. 263; p. 145.
- Pine Tree Milking Machine Company. (See Babson, Henry B., assignor.)
- Pioneer Products, Inc. (See Bandler, Lawrence R., assignor.)
- Planters Nut and Chocolate Company. (See Peruzzi, Mario, assignor.)
- Platt, Clarence D., Bridgeport, Conn. Electric-switch handle. No. 53,401; June 3; v. 263; p. 145.
- Platt, Eugene P., assignor to The Inlaid Company, Inc., Providence, R. I. Photographic mount, mat, or similar article. No. 53,088; Mar. 11; v. 260; p. 370.
- Platts, Howard C. (See Overbury and Platts.)
- Play-O-Lite Co. (See Eberhart, Cleburne, Jr., assignor.)
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Conduit-clamp or similar article. No. 53,276; May 6; v. 262; p. 145.
- Plouf, Felix C., Minneapolis, Minn. Tire. No. 54,281; Dec. 9; v. 269; p. 348.
- Pneumatic Surf Fish Company. (See McCarty and Falck, assignors.)
- Poczatek, Joseph, Chicopee Falls, Mass. Picture-frame. No. 53,524; July 8; v. 264; p. 334.
- Poe, Robert L., Chicago, Ill. Horn and amplifier for phonographs. No. 54,224; Nov. 18; v. 268; p. 527.
- Pokojni, John, New York, N. Y. Miniature shrine. No. 54,332; Dec. 23; v. 269; p. 681.
- Popper, Isaac C., New York, N. Y. Cooking kit. No. 53,155; Apr. 1; v. 261; p. 185.
- Portage Rubber Co., The. (See Christy, James, assignor.)
- Post, John S., Newark, N. J. Article of manufacture. No. 53,317; May 13; v. 262; p. 289.
- Post, Peter K., New York, N. Y. Symbolic timepiece-dial. No. 54,180; Nov. 11; v. 268; p. 340.
- Potter, Thomas J., Los Angeles, Calif. Gas-radiator. No. 53,525; July 8; v. 264; p. 334.
- Powell, Myra F., Motley, Minn. Pin. No. 53,209; Apr. 15; v. 261; p. 606.
- Powers, Timothy B., Brooklyn, assignor to J. B. Bander, New York, N. Y. Signal for vehicles. Nos. 54,181-2; Nov. 11; v. 268; p. 340.
- Pratt, Benjamin H., Milwaukee, Wis. Vehicle-tire. No. 53,972; Oct. 14; v. 267; p. 327.
- Pratt, Harold L., Glen Cove, assignor to The International Committee of The Young Men's Christian Associations, New York, N. Y. Pin, brassard, or badge. No. 53,748; Aug. 26; v. 265; p. 588.
- Premier Tire and Rubber Company. (See McKimm, Earl L., assignor.)
- Press, Jacob H., Chicago, Ill. Vehicle-body. No. 52,964; Feb. 4; v. 259; p. 165.
- Pressed Steel Products Company. (See Mittinger, George E., assignor.)
- Pressey, Alfred W. (See Macdonald and Pressey.)
- Price, Osborn I., Frederick, Md. Memorial tablet. No. 54,125; Nov. 4; v. 268; p. 160.
- Proehl Tire and Rubber Company. (See Hargraves, Albert, assignor.)
- Provopoulos, Alexandria, Fort Dodge, Iowa. Ring or locket. No. 52,857; Jan. 7; v. 258; p. 206.
- Putnam, Alden L., assignor to Detroit Pressed Steel Company, Detroit, Mich. Vehicle-wheel body. No. 54,225; Nov. 18; v. 268; p. 527.
- Pye, David W. (See McNally, Leo F., assignor.)
- Pye, David W. (See Spear, Margaret B., assignor.)
- Qualit Art Furniture Co. (See Thompson, Archibald H., assignor.)
- R. Williamson & Co. (See Yardley, Horace R., assignor.)
- Racine Auto Tire Company. (See Wright, Clarence, assignor.)
- Rauch, Charles J., Memphis, Tenn. Button. No. 53,376; May 27; v. 262; p. 627.
- Rauh, Frederic H., South Orange, assignor to J. Wiss & Sons Company, Newark, N. J. Pair of manicure-scissors. No. 53,606; July 15; v. 264; p. 516.
- Rauh, Frederic H., South Orange, assignor to J. Wiss & Sons Company, Newark, N. J. Pair of scissors. No. 53,607; July 15; v. 264; p. 517.
- Reach, William F., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Tubular ice-skate. No. 53,047; Mar. 4; v. 260; p. 180.
- Reaper, William A., Monroe, Mich. Compartment-jar. No. 53,935; Oct. 7; v. 267; p. 142.
- Reele, Stephen, Houston, Tex. Automobile-tire. No. 53,608; July 15; v. 264; p. 517.
- Reid, Elmer A., Trenton, N. J., assignor to Ajax Rubber Company, Inc., Millbrook, N. Y. Tire-casing. Nos. 53,749-50; Aug. 26; v. 265; p. 588.
- Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. No. 53,526; July 8; v. 264; p. 334.
- Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. Nos. 53,377-8; May 27; v. 262; pp. 627-8.
- Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. Nos. 53,463-6; June 17; v. 263; pp. 461-2.
- Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Printed silk. No. 53,527; July 8; v. 264; p. 334.
- Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Silk fabric. No. 53,609; July 15; v. 264; p. 517.
- Reizenstein, Charles L., Pittsburgh, Pa. Glass or china vessel. No. 54,126; Nov. 4; v. 268; p. 160.
- Reizenstein, Charles L., Pittsburgh, Pa. Vessels made of glass or chinaware. No. 54,282; Dec. 9; v. 269; p. 348.
- Renner, Irvin R., Akron, Ohio, assignor to The B. F. Goodrich company, New York, N. Y. Pneumatic tire. No. 53,427; June 10; v. 263; p. 310.
- Revere Rubber Company. (See Davis, Laurence R., assignor.)
- Revere Rubber Company. (See Kent, William J., assignor.)
- Reynolds, James W., Chicago, Ill. Artificial bait. No. 53,610; July 15; v. 264; p. 517.
- Reynolds, Joseph N., Atlantic, Iowa. Glove. No. 54,333; Dec. 23; v. 269; p. 681.
- Rich, James E., Boston, assignor to C. T. Banks, Cambridge, and W. E. Rich, trustees, Boston, Mass. Spark-plug. No. 54,353; Dec. 30; v. 269; p. 852.
- Rich, William E., et al., trustees. (See Rich, James E., assignor.)
- Richards, James A., assignor to The Richards Manufacturing Company, Marietta, Ohio. Wheeled toy. No. 53,253; Apr. 29; v. 261; p. 942.
- Richards Manufacturing Company, The. (See Richards, James A., assignor.)
- Richards, William H., Knoxville, Tenn. Flag. No. 52,900; Jan. 14; v. 258; p. 430.
- Richardson, Harry E. (See Sorg and Richardson, signors.)
- Ridgway, Edward J., Staten Island, N. Y. Dish or similar article. No. 53,379; May 27; v. 262; p. 628.
- Riefsnyder, Charles C., deceased, Des Moines, Iowa; R. A. Riefsnyder, administratrix. Tag. No. 53,156; Apr. 1; v. 261; p. 185.
- Riefsnyder, Rose A., administratrix. (See Riefsnyder, Charles C.)
- Rigaud, V. (See Shropshire, George E., assignor.)
- Riley, James T., Brooklyn, assignor to Kimpton, Haupt & Co., New York, N. Y. Single double-desk inkstand. No. 53,136; Mar. 25; v. 260; p. 713.
- Ring, John H., assignor to Gorham Manufacturing Company, Providence, R. I. Platter or similar article. No. 53,611; July 15; v. 264; p. 517.
- Ring, John H., assignor to Gorham Manufacturing Company, Providence, R. I. Dish or similar article. No. 53,612; July 15; v. 264; p. 517.
- Rivelis, Samuel, Philadelphia, Pa. Shoe ornament. No. 53,751; Aug. 26; v. 265; p. 588.
- Roberson, Marshall J., Spring Dale, W. Va. Poison-bottle indicator. No. 52,965; Feb. 4; v. 259; p. 165.
- Robert Findlay Manufacturing Co. (See Cohn, Harry, assignor.)
- Roberts, Clarence V., assignor to Roberts & Mander Stove Company, Philadelphia, Pa. Gas-heater. No. 53,048; Mar. 4; v. 260; p. 180.
- Roberts, Guy, Whitefield, N. H. Milk-bottle protector. No. 53,182; Apr. 8; v. 261; p. 394.
- Roberts & Mander Stove Company. (See Roberts, Clarence V., assignor.)
- Roberts, William F., Kellogg, Idaho. Wrench. No. 54,127; Nov. 4; v. 268; p. 160.
- Rockwell, Byrd C., Camden, Ark. Screen-door. No. 53,528; July 8; v. 264; p. 334.
- Rockwell, Herbert O., assignor to The B. & K. Manufacturing Co., New Britain, Conn. Combination-tool. No. 53,613; July 15; v. 264; p. 518.
- Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Blood-pressure gage. No. 53,023; Feb. 25; v. 259; p. 757.
- Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-plug. No. 53,529; July 8; v. 264; p. 334.
- Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-plug. Nos. 53,859-66; Sept. 16; v. 266; pp. 425-6.
- Rohde, Otto C., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-plug core. No. 54,128; Nov. 4; v. 268; p. 160.
- Ronsko, Joseph L., Cleveland, Ohio. Lamp-standard. No. 53,402; June 3; v. 263; p. 145.
- Rorimer, Louis, Cleveland, Ohio, assignor to Simmons Company, Kenosha, Wis. Bedstead. No. 53,105; Mar. 18; v. 260; p. 546.
- Rosel, William E., Columbus, Ohio. Spark-plug tool. No. 53,641; July 22; v. 264; p. 678.
- Rosenberg, Maurice, Brooklyn, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. Nos. 52,966-71; Feb. 4; v. 259; pp. 165-6.



- Rosenberg, Maurice, Brooklyn, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y. Spindle for lighting-fixtures. No. 52,972; Feb. 4; v. 259; p. 166.
- Rost, Howard R., assignor to Continental Distributors, Incorporated, Chicago, Ill. Fire-extinguisher. No. 53,926; Oct. 7; v. 267; p. 149.
- Royal Art Glass Company. (See Willenbacher, August, assignor.)
- Royal Comb Company. (See Holden, Crofton C., assignor.)
- Rozyk, Nik, Dowagiac, Mich. Stove. No. 54,129; Nov. 4; v. 268; p. 161.
- Ruland, Wreatha J., Lawton, Okla. Pin. No. 53,752; Aug. 26; v. 265; p. 588.
- Runne, Henry G., assignor of one-half to C. L. Townsend, Rochester, N. Y. Toy. No. 53,343; May 20; v. 262; p. 454.
- Rustant, Ferdinand, San Francisco, Calif. Bottle-stopper. No. 53,428; June 10; v. 263; p. 310.
- Rustant, Ferdinand, San Francisco, Calif. Bottle-stopper. No. 53,468; June 17; v. 263; p. 462.
- Rustant, Ferdinand, Manila, Philippine Islands. Bottle-stopper. No. 53,467; June 17; v. 263; p. 462.
- Rustant, Ferdinand, Manila, Philippine Islands. Poison-bottle. No. 53,614; July 15; v. 264; p. 518.
- Ryder, Charles D., Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Rim for a vehicle-lamp or similar article. No. 54,130; Nov. 4; v. 268; p. 161.
- Rylander, John E., Americus, Ga. Rack. No. 54,183; Nov. 11; v. 268; p. 340.
- Ryser, Walter, Milwaukee, Wis. Container. No. 53,318; May 13; v. 262; p. 290.
- S. Smith & Sons (Motor Accessories) Limited. (See Smith, Allen G., assignor.)
- S. Sternau & Company. (See Nelson, Charles, assignor.)
- Safety Burglar Alarm Co. (See Jacobson, Ole, assignor.)
- Salminen, Eino, assignor to A. Becker, Buffalo, N. Y. Aero-plane-body. No. 53,137; Mar. 25; v. 260; p. 714.
- Salz Brothers. (See Franklin, Herman, assignor.)
- Salzer, Arthur, New York, N. Y. Lamp-globe. No. 53,049; Mar. 4; v. 260; p. 181.
- Samour, Tegrin M., Roxbury, Mass. Wind-wheel. No. 53,469; June 17; v. 263; p. 462.
- Samson, Edwin J., assignor of one-third to H. R. Voigtlander and one-third to A. S. Baudler, New York, N. Y. Tooth-brush. No. 53,715; Aug. 19; v. 265; p. 437.
- Samuel, James W., Cedarhurst, N. Y. Combined ash-tray and flagpole. No. 54,334; Dec. 23; v. 269; p. 681.
- Samuels, Benjamin S., New York, N. Y. Paper-weight or other ornament of similar nature. No. 53,183; Apr. 8; v. 261; p. 394.
- Sanders, Charles M., Guthrie, Okla. Napkin and tooth-pick holder. No. 53,254; Apr. 29; v. 261; p. 943.
- Sanford Mills. (See Hussey, Edward E., assignor.)
- Sanford Narrow Fabric Co. (See Chapman, John G., assignor.)
- Sanford Narrow Fabric Co. (See King, Charles S., assignor.)
- Sani-Fold Co. of California, The. (See Lloyd, Converse W., assignor.)
- Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Goblet. No. 52,995; Feb. 11; v. 259; p. 359.
- Savage Tire Co., The. (See Spreckels, Claus, assignor.)
- Saxon China Company. (See Cliff, Ray Y., assignor.)
- Scalabrino, John, New York, N. Y., assignor to W. T. Goldsmith, Newark, N. J. Hand-bag frame. Nos. 53,642-3; July 22; v. 264; p. 678.
- Schaffer, Henry J., assignor to J. Schaffer, Brooklyn, N. Y. Ash-can, garbage-can, or like receptacle. No. 53,691; Aug. 5; v. 265; p. 127.
- Schaffer, Jacob. (See Schaffer, Henry J., assignor.)
- Schelp, Walter F., St. Louis, Mo. Document, contract, or other legal instrument. No. 52,858; Jan. 7; v. 258; p. 266.
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Register. Nos. 53,050-2; Mar. 4; v. 260; p. 181.
- Schlesinger, Morris, assignor to M. Schlesinger, Inc., New York, N. Y. Cluster for floor and table lamps. No. 54,131; Nov. 4; v. 268; p. 161.
- Schless, Maurice J., New York, N. Y. Ring or similar article of manufacture. Nos. 53,530-5; July 8; v. 264; p. 335.
- Schneider, Frank, Buffalo, N. Y. Goblet or similar article. No. 53,319; May 13; v. 262; p. 290.
- Schultz, Bernard, Worcester, Mass. Waist. No. 53,536; July 8; v. 264; p. 335.
- Schuykill Silk Mills. (See Winsten, Harry J., assignor.)
- Schweimert, Maximilian C., West Hoboken, N. J. Valve-tool. No. 53,937; Oct. 7; v. 267; p. 142.
- Schwidetzky, Oscar O. R., Hasbrouck Heights, assignor to Becton Dickinson & Co., Rutherford, N. J. Bottle. No. 53,666; July 29; v. 264; p. 845.
- Schwinn, Frederick, Attleboro, Mass. Spoon, fork, or similar article. No. 53,277; May 6; v. 262; p. 145.
- Scott, Ernest A., Pasadena, Calif. Incense-burner. No. 53,226; Apr. 22; v. 261; p. 780.
- Scott, Lewis L., St. Louis, Mo. Casing for radiators. No. 54,132; Nov. 4; v. 268; p. 161.
- Scott, Lewis L., St. Louis, Mo. Front for an automobile-lamp. No. 54,226; Nov. 18; v. 268; p. 527.
- Scott-Ullman Co., The. (See Maerz, Frederick K., assignor.)
- Scribner, George H. T., San Francisco, Calif. Faucet. No. 53,615; July 15; v. 264; p. 518.
- Searight Downs Manufacturing Co. (See Searight, John R., assignor.)
- Searight, John R., assignor to Searight Downs Manufacturing Co., Detroit, Mich. Toy gun. No. 54,133; Nov. 4; v. 268; p. 161.
- Selle, Oliver F., St. Louis, Mo. Flag, pennant, sign, emblem, or article of a similar nature. No. 53,138; Mar. 25; v. 260; p. 714.
- Selsor, Margaret A., New York, N. Y. Shirt. No. 53,089; Mar. 11; v. 260; p. 377.
- Semple, John M., Attleboro, assignor to Webster Company, North Attleboro, Mass. Tray, dish, or similar article. No. 52,859; Jan. 7; v. 258; p. 206.
- Shaffer, Edwin F., Columbus, Ohio. Ink-well. No. 53,644; July 22; v. 264; p. 679.
- Shanklin, Benjamin M., Springfield, Mass. Casing for a strip-punching apparatus. No. 53,938; Oct. 7; v. 267; p. 142.
- Shanley, Rebecca E., Washington, D. C. Badge, emblem, or similar article. No. 54,335; Dec. 23; v. 269; p. 681.
- Shapiro & Aronson. (See Barrows, Robert Y., assignor.)
- Shapiro & Aronson. (See Rosenberg, Maurice, assignor.)
- Shapiro & Aronson. (See Westphal, Gottfried, assignor.)
- Shapiro, Sol. (See Meyers, Joseph A., assignor.)
- Sharer, Adelaide J. F., Cleveland, Ohio. Brooch, button, badge, stick-pin, sign, emblem, flag, pennant, or article of a similar nature. No. 52,924; Jan. 28; v. 258; p. 791.
- Shatt, Maurice D., New York, N. Y. Peace-flag. No. 53,210; Apr. 15; v. 261; p. 607.
- Sheppard, Herbert V., Worcester, Mass. Corn-plaster. No. 53,939; Oct. 7; v. 267; p. 143.
- Sheppard, John R. (See Stark and Sheppard.)
- Sheras, Morris, Chicago, Ill. Time-stamp. No. 53,053; Mar. 4; v. 260; p. 181.
- Sheridan, James W., assignor to Woods Mobilette Company, Chicago, Ill. Automobile-body. No. 53,380; May 27; v. 262; p. 628.
- Shropshire, George E., Yonkers, assignor, by mesne assignments, to V. Rigaud, New York, N. Y. Decorative paper. No. 53,320; May 13; v. 262; p. 290.
- Sievers, William, St. Louis, Mo. Automobile-tire lock. No. 54,336; Dec. 23; v. 269; p. 682.
- Sills, Berton H., Toronto, Ontario, Canada. Front glass for automobile-headlights. No. 53,667; July 29; v. 264; p. 846.
- Silver, Conover T., New York, N. Y. Automobile. No. 54,134; Nov. 4; v. 268; p. 162.
- Silver Hyman, Brooklyn, N. Y. Buffet or similar article. Nos. 53,211-12; Apr. 15; v. 261; p. 607.
- Simmons Company. (See Rorimer, Louis, assignor.)
- Simon, Bertram, New York, N. Y. Badge, button, or similar article of manufacture. Nos. 53,255-7; Apr. 29; v. 261; p. 943.
- Simonson, Walter H., New York, N. Y. Flag, banner, sign, poster, pennant, badge, emblem, pin, button, ring-top, or similar article of manufacture. Nos. 53,166-7; Apr. 1; v. 261; p. 187.
- Simpson, Hugh L., Fort Dodge, Kans. Attachment for baby-carriages. No. 53,106; Mar. 18; v. 260; p. 546.
- Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
- Singer Manufacturing Company, The. (See Karle, John D., assignor.)
- Skarda, Frank. (See Mazanec and Skarda.)
- Slack, William W., Trenton, N. J. Water-closet tank. No. 54,135; Nov. 4; v. 268; p. 162.
- Slack, William W., Trenton, N. J. Lid for a water-closet tank. No. 54,136; Nov. 4; v. 268; p. 162.
- Slosson, Edward, Riverside, Conn., assignor to W. G. Cornell Company. Drafting instrument. No. 54,137; Nov. 4; v. 268; p. 162.
- Smith, Allen G., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Dashboard for motor-vehicles. Nos. 54,138-40; Nov. 4; v. 268; pp. 162-3.
- Smith, Allan G., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Dashboard for motor-vehicles. No. 54,354; Dec. 30; v. 269; p. 853.
- Smith, Charles E., Chattanooga, Tenn. Service-pin. No. 53,381; May 27; v. 262; p. 628.
- Smith, Edward P., Pittston, Pa. Emblem, button, or article of similar nature. No. 53,616; July 15; v. 264; p. 518.
- Smith, Fred W., Rutherford, N. J. Automobile-tire. No. 54,337; Dec. 23; v. 269; p. 682.
- Smith, Harry J., Binghamton, N. Y. Vehicle-tire. No. 53,940; Oct. 7; v. 267; p. 143.
- Smith, Maurice A., assignor to McKee Glass Company, Jeannette, Pa. Glass bowl. Nos. 53,941-2; Oct. 7; v. 267; p. 143.
- Smith, Ray, assignor to R. L. Hardin, Portland, Oreg. Statuette or similar article. No. 53,716; Aug. 19; v. 265; p. 437.



## Alphabetical list of patentees of designs—Continued.

- Smith, Raymond D., Arlington, assignor to Tremont Products Company, Boston, Mass. Humidifier. No. 53,403; June 3; v. 263; p. 145.
- Smith, Samuel L., Ellensburg, Wash. Child's bicycle. No. 54,141; Nov. 4; v. 263; p. 163.
- Smith, Theodore M., assignor of one-half to L. C. Phelan, New York, N. Y. Ornament. No. 54,338; Dec. 23; v. 269; p. 682.
- Smith, Wilson F., East Liverpool, Ohio. Phonograph-horn. No. 53,139; Mar. 25; v. 260; p. 714.
- Smith, Yuill W., Rozel, Kans. Game-board. No. 52,996; Feb. 11; v. 259; p. 359.
- Snead & Co. Iron Works, The. (See Macdonald, Angus S., assignor.)
- Snead & Co. Iron Works, The. (See Macdonald and Muller, assignors.)
- Snead & Co. Iron Works, The. (See Macdonald and Pressey, assignors.)
- Snyder, Jacob L., Boston, Mass., assignor to The Columbia Ice Cream Horn Company. Ice-cream cone. No. 53,168; Apr. 1; v. 261; p. 187.
- Sokolowski, Aleksander, Peru, Ill. Stone. No. 53,717; Aug. 19; v. 265; p. 437.
- Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
- Solinger, Jacob, Providence, R. I. Emblem, pin, or similar article. No. 53,140; Mar. 25; v. 260; p. 714.
- Sollen, Adam, assignor, by mesne assignments, to The Warm-O-Suit Corporation, New York, N. Y. Coat. No. 54,283; Dec. 9; v. 269; p. 348.
- Sollen, Adam, assignor, by mesne assignments, to The Warm-O-Suit Corporation, New York, N. Y. Trousers. No. 54,284; Dec. 9; v. 269; p. 348.
- Sommer, Adolph J., Ritzville, Wash. Automobile bolt and nut box. No. 53,107; Mar. 18; v. 260; p. 546.
- Sommer, John L., and T. Harding, Newark, N. J., assignors to J. L. Sommer Manufacturing Co. Cake-turner or similar kitchen utensil. No. 53,054; Mar. 4; v. 260; p. 181.
- Sommer, John L., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Handle for a screw-driver or similar article. No. 54,142; Nov. 4; v. 263; p. 163.
- Sommerhof, William A., Erie, Pa. Article of manufacture—namely, screen for sound-outlets of graphophones. No. 53,617; July 15; v. 264; p. 518.
- Sondy, William F., New York, N. Y. Button. Nos. 53,344-5; May 20; v. 262; pp. 454-5.
- Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
- Sorg, Emil G., Buffalo, and H. E. Richardson, Eden, N. Y. Musical instrument. No. 53,470; June 17; v. 263; p. 463.
- Spear, Margaret B., New York, N. Y., assignor of one-half to D. W. Pye, Red Bank, N. J. Doll. No. 53,943; Oct. 7; v. 267; p. 143.
- Spencer, Charles H., Chicago, Ill. Badge, pendant, or like article of jewelry. No. 52,997; Feb. 11; v. 259; p. 359.
- Sperry Gyroscope Company, The. (See Colvin, Charles H., assignor.)
- Spiegel, Morris, assignor of one-half to M. R. Bishop, Chicago, Ill. Book-cover, calendar, or similar article. No. 53,382; May 27; v. 262; p. 628.
- Spiegel, Morris, assignor to E. Frisch, Chicago, Ill. Sheet of wrapping-paper. No. 54,355; Dec. 30; v. 269; p. 853.
- Spiro, Walter J., White Plains, N. Y. Running-board molding. No. 54,285; Dec. 9; v. 269; p. 349.
- Spreckels, Claus, Coronado, assignor to The Savage Tire Co., San Diego, Calif. Tire. Nos. 54,286-7; Dec. 9; v. 289; p. 349.
- St. Louis Brass Manufacturing Company. (See Owen, Raymond V., assignor.)
- Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Back for mirrors, brushes, or similar articles. No. 54,356; Dec. 30; v. 269; p. 853.
- Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Cloth-brush or similar article. No. 54,357; Dec. 30; v. 269; p. 853.
- Staf, Axel H., assignor to Gorham Manufacturing Company, Providence, R. I. Puff-box or similar article. No. 54,358; Dec. 30; v. 269; p. 853.
- Stahl, George E., Jersey City, N. J. Counter-carbonator. No. 53,867; Sept. 16; v. 266; p. 427.
- Stair, Frank E., South Bend, Ind. Lamp. No. 53,944; Oct. 7; v. 267; p. 143.
- Stanfa, Nicasio, Beaumont, Tex. Brake. No. 53,618; July 15; v. 264; p. 518.
- Standard Tire Co., The. (See Tinsman, Edgar A., assignor.)
- Stark, Lewis D., and J. R. Sheppard, Detroit, Mich. Badge or button. Nos. 53,321-2; May. 13; v. 262; p. 290.
- Stansbery, Warren H., Grand Haven, Mich. Crochet-hook. No. 52,973; Feb. 4; v. 259; p. 166.
- Stansbury, Harry F., and J. F. Davis, Scranton, Pa. Tire-tread. No. 54,143; Nov. 4; v. 268; p. 163.
- Star Rubber Company, The. (See Weaver, Orlando L., assignor.)
- Steger, Ferdinand L., assignor to Steger & Sons Piano Manufacturing Company, Steger, Ill. Phonograph-cabinet. No. 54,184; Nov. 11; v. 268; p. 340.
- Steger & Sons Piano Manufacturing Company. (See Steger, Ferdinand L., assignor.)
- Steiger & Kerr Stove & Foundry Company. (See Lehman, Max R., assignor.)
- Stein, Morris, Philadelphia, Pa. Aquarium and fountain. No. 53,718; Aug. 19; v. 265; p. 437.
- Stein, Morris, Philadelphia, Pa. Aquarium. No. 53,719; Aug. 19; v. 265; p. 437.
- Stein, Sam M., and R. H. Orkin, Greenwood, Miss. Card-receptacle. No. 53,945; Oct. 7; v. 267; p. 144.
- Steinberger, Louis, Brooklyn, N. Y. Sound-transmitter. Nos. 53,090-1; Mar. 11; v. 260; p. 377.
- Steiner, Albert, Cincinnati, Ohio. Cake of soap or similar article. No. 53,537; July 8; v. 264; p. 335.
- Steiner, Nathan. (See Halstrick, William F., assignor.)
- Sterling, Bernard A., Chicago, Ill. Holder for manicuring preparations. No. 53,973; Oct. 14; v. 267; p. 928.
- Sterling Casket Hardware Company. (See Bailey, George R., assignor.)
- Stetson, Lloyd W., and J. M. Thorpe, Oakland, Calif. Toy-vehicle body. No. 53,946; Oct. 7; v. 267; p. 144.
- Stevenson, Charles M., Rockford, Ill., assignor to Iowa Gate Company, Cedar Falls, Iowa. Stall partition. No. 53,947; Oct. 7; v. 267; p. 144.
- Stewart-Warner Speedometer Corporation. (See Genn, John E., assignor.)
- Stimpson, Estelle H. (See Stimpson, Walter F., assignor.)
- Stimpson, Walter F., assignor to E. H. Stimpson, Detroit, Mich. Scale-frame. No. 52,901; Jan. 14; v. 258; p. 430.
- Stokes, Robert J., assignor to Thermoid Rubber Company, Trenton, N. J. Vehicle-tire. Nos. 53,692-3; Aug. 5; v. 265; p. 127.
- Stolley, William A., assignor, by mesne assignments, to James Heddon's Sons, Dowagiac, Mich. Artificial bait. No. 52,925; Jan. 28; v. 258; p. 791.
- Stone, Elmer B., assignor to American Hardware Corporation, New Britain, Conn. Padlock. No. 53,141; Mar. 25; v. 260; p. 714.
- Stothoff, William S., assignor to William Wharton, Jr. & Co., Incorporated, Easton, Pa. Tractor-wheel. No. 54,288; Dec. 9; v. 269; p. 349.
- Stowe, William D., Scranton, Pa. Signaling device. No. 53,055; Mar. 4; v. 260; p. 182.
- Strahan, George V., Newark, N. J., assignor to Mitchell Vance Company Inc., New York, N. Y. Wall-bracket lighting-fixture. No. 54,144; Nov. 4; v. 268; p. 163.
- Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co. Inc., New York, N. Y. Wall-plate for lighting-fixture. Nos. 54,145-6; Nov. 4; v. 268; pp. 163-4.
- Strahan, George V., Newark, N. J. Wall-plate for lighting-fixture. No. 54,289; Dec. 9; v. 269; p. 349.
- Straus Brothers Company, The. (See Langley, Ralph S., assignor.)
- Strauss, Norman L., New York, N. Y., and M. Henriot, Arlington, assignors to Strauss & Strauss, Newark, N. J. Ring, button, brooch, bar-pin, hat-pin, scarf-pin, plaque, or article of similar nature. No. 53,258; Apr. 29; v. 261; p. 943.
- Strauss & Strauss. (See Strauss and Henriot, assignors.)
- Strittmatter, Thomas P., Jermyn, Pa. Article of manufacture. No. 54,147; Nov. 4; v. 268; p. 164.
- Strohaker, Gustav, Wallingford, Conn., assignor to The United Jewelers, Incorporated, New York, N. Y. Spoon, fork, or similar article. No. 53,956; Mar. 4; v. 260; p. 182.
- Stubenvoll, Kurt H., assignor to Gillette Rubber Co., Eau Claire, Wis. Tire-casing or a similar article. No. 54,290; Dec. 9; v. 269; p. 349.
- Stump, Blanche A., Toledo, Ohio. Badge. No. 52,998; Feb. 11; v. 259; p. 359.
- Stump, Blanche A., Toledo, Ohio. Badge. No. 53,057; Mar. 4; v. 260; p. 182.
- Stump, Blanche A., Toledo, Ohio. Badge. No. 53,868; Sept. 16; v. 266; p. 427.
- Stump, Blanche A., Toledo, Ohio. Badge. No. 53,948; Oct. 7; v. 267; p. 144.
- Stumpf, Anthony J., Chicago, Ill. Vehicle-body. No. 53,668; July 29; v. 264; p. 846.
- Stumpp, George E. M., and K. Kamman, Southampton, N. Y. Flower-holder. No. 53,669; July 29; v. 264; p. 846.
- Stungo, Joseph, Pittsburgh, Pa., assignor to Stungo-Radium Rubber Company. Tire. No. 53,278; May 6; v. 262; p. 145.
- Stungo-Radium Rubber Company. (See Stungo, Joseph, assignor.)
- Stutz, Harry C., Indianapolis, Ind. Automobile-headlight. No. 53,619; July 15; v. 264; p. 519.
- Summa, Joseph, New York, N. Y. Ornamental lamp-shade. No. 54,339; Dec. 23; v. 269; p. 682.
- Supreme Tribe of Ben Hur, The. (See Mason, Edwin M., assignor.)
- Susquehanna Silk Mills. (See Bunting, James H., assignor.)
- Susquehanna Silk Mills. (See Dommange, Harry F., Jr., assignor.)
- Susquehanna Silk Mills. (See Eisele, Adolphe, assignor.)
- Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
- Susquehanna Silk Mills. (See Orcutt, Leon F., assignor.)



- Susquehanna Silk Mills. (See Reinhart, Ruby L., assignor.)
- Susquehanna Silk Mills. (See Reith, William G., assignor.)
- Suttle, Luella K., Cleveland, Ohio. Casing of a table-crumbsweeper. No. 53,184; Apr. 8; v. 261; p. 395.
- Swagzdes, Joseph, Riverside, N. J. Clothes-basket. No. 53,323; May 13; v. 262; p. 290.
- Swanson, Swan, Seattle, Wash. Bottle-cap. No. 53,092; Mar. 11; v. 260; p. 377.
- Sweeney, William J., East Orange, N. J. Flag, pennant, or similar article. No. 53,471; June 17; v. 263; p. 463.
- Sweet-Nut Butter Co. (See Everett, Frank W., assignor.)
- Swetland, Esther H., North Tonawanda, N. Y. Toy. No. 52,902; Jan. 14; v. 258; p. 430.
- Swift, Joseph H., North Attleboro, Mass. Emblem, brooch, ring-top, lavallière, button, or similar article. No. 53,383; May 27; v. 262; p. 628.
- Swinehart, Clark A., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic-tire tread. No. 54,185; Nov. 11; v. 268; p. 340.
- Syfers, Rufus H., Indianapolis, Ind. Tire-tread. No. 54,186; Nov. 11; v. 268; p. 341.
- Symons, Wilson E., New York, N. Y. Portable electric-welding truck. No. 53,384; May 27; v. 262; p. 629.
- Symons, Wilson E., New York, N. Y. Electric-welding autotruck. No. 53,385; May 27; v. 262; p. 629.
- Syracuse Faucet and Valve Company, The. (See Brightman, Joseph F., assignor.)
- Syrocki, Andrew, Detroit, Mich. Combined bird-cage and aquarium. No. 53,157; Apr. 1; v. 261; p. 185.
- T. N. Benedict Mfg. Co. (See Saunders, Albert F., assignor.)
- Tate, Samuel G., Chicago, Ill. Sewing-machine frame. Nos. 52,860-1; Jan. 7; v. 258; pp. 206-7.
- Taylor, Dent A., Wheeling, W. Va., assignor to H. Northwood Company. Lighting-fixture. No. 53,538; July 8; v. 264; p. 336.
- Taylor, Halsey W., Warren, Ohio. Drinking-fountain bowl. No. 53,227; Apr. 22; v. 261; p. 780.
- Taylor Instrument Companies. (See Norwood, Harry Y., assignor.)
- Taylor, Leroy J., assignor to Libby, McNeill & Libby, Chicago, Ill. Bottle or jar. No. 53,694; Aug. 5; v. 265; p. 127.
- Taylor, Thomas E., assignor to The Eclipse Stove Company, Mansfield, Ohio. Stove or range. No. 54,148; Nov. 4; v. 268; p. 164.
- Taylor, William W., Columbus, Ohio. Device for sharpening fish-hooks. No. 53,645; July 22; v. 264; p. 679.
- Teasley, Daniel O., Anderson, Ind. Flag. No. 53,259; Apr. 29; v. 261; p. 943.
- Tob, Ida E., Brooklyn, N. Y. Sweater. No. 53,646; July 22; v. 264; p. 679.
- Templeman, Arthur E., Grand Junction, Colo. Badge, button, or similar article. No. 53,539; July 8; v. 264; p. 336.
- Tenney, John, Jr., Plainfield, N. J. Tire. No. 54,291; Dec. 9; v. 269; p. 350.
- Texas Company, The. (See Davenport, Arthur E., assignor.)
- Theodor Kundtz Company, The. (See Fohman, Charles, assignor.)
- Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
- Thurmer, Lawrence G., Milwaukee, Wis. Game-table. Nos. 53,158-60; Apr. 1; v. 261; pp. 185-6.
- Thomas Carter & Sons. (See Carter, Thomas, assignor.)
- Thomas, Joseph A., Birmingham, Ala. Tobacco-can. No. 53,386; May 27; v. 262; p. 629.
- Thommen, William H. (See Dennett and Thommen.)
- Thompson, Archibald H., assignor to Quaint Art Furniture Co., Inc., Syracuse, N. Y. Combined chair and desk. No. 54,187; Nov. 11; v. 268; p. 341.
- Thompson, David, Mechanicsville, Conn. Game-board. No. 54,292; Dec. 9; v. 269; p. 350.
- Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Telephone-receiver holder. No. 53,093; Mar. 11; v. 260; p. 377.
- Thompson, Walter, Engle, N. Mex. Bed-pan. No. 54,149; Nov. 4; v. 268; p. 164.
- Thorpe, Joseph M. (See Stetson and Thorpe.)
- Timmons, John S., New York, N. Y. Wall-telephone set. No. 53,540; July 8; v. 264; p. 336.
- Tin Decorating Company of Baltimore. (See Connor, Martha H., assignor.)
- Tin Decorating Company of Baltimore. (See Gerhardt, Leonard, assignor.)
- Tinsman, Edgar A., Akron, assignor to The Standard Tire Co., Willoughby, Ohio. Vehicle-tire. No. 53,949; Oct. 7; v. 267; p. 144.
- Tip Top Toy Company. (See Ziv, Abraham J., assignor.)
- Tognelli, Pius O., Lincoln, Calif. International patriotic emblem. No. 53,720; Aug. 19; v. 265; p. 438.
- Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Can. No. 53,094; Mar. 11; v. 260; p. 377.
- Tony, Charles J., New York, N. Y., assignor to J. H. Peckham & Sons, North Attleboro, Mass. Article of manufacture. No. 52,185; Apr. 8; v. 261; p. 395.
- Towle Manufacturing Company. (See Nock, Harold E., assignor.)
- Towle Manufacturing Company. (See Nock and Parker, assignors.)
- Towle Manufacturing Company. (See Parker, George F., assignor.)
- Townley, Arthur C., et al. (See Griffith, George H., assignor.)
- Townsend, Charles L. (See Runne, Henry G., assignor.)
- Tremont Products Company. (See Smith, Raymond D., assignor.)
- Trenton Porcelain Company. (See Maguire, George E., assignor.)
- Trop Chocolate Co. (See Trop, Morris S., assignor.)
- Trop, Morris S., assignor to Trop Chocolate Co., Brooklyn, N. Y. Wrapper. No. 53,024; Feb. 25; v. 259; p. 758.
- Troyke, Albert H., Oak Park, Ill. Drop-head-sewing-machine cabinet. No. 54,341; Dec. 23; v. 269; p. 682.
- Turtou, William, East Orange, N. J. Member for bag-frames, purse-frames, and similar articles. No. 53,647; July 22; v. 264; p. 679.
- Turton, William, Newark, N. J., assignor to The Art Hand-Bag Frame Co., New York, N. Y. Hand-bag frame. No. 53,721; Aug. 19; v. 265; p. 438.
- Twyman, B. Wickliffe, Muncie, Ind. Automobile-body. No. 53,722; Aug. 19; v. 265; p. 438.
- U. S. Toy & Novelties Mfg. Co., The. (See Fairbanks, James J., assignor.)
- Underhill, Emma M., Englewood, N. J. Asparagus-server or similar article. No. 54,150; Dec. 4; v. 268; p. 164.
- Underwood Typewriter Company. (See Burridge, Lee S., assignor.)
- Unger, Charles W., Los Angeles, Cal. Memorial-service poster or similar article. No. 52,999; Feb. 11; v. 259; p. 360.
- United Jewelers, The. (See Strohacker, Gustav, assignor.)
- United Metal Manufacturing Co. (See Wellman, Lester R., assignor.)
- United Phonographs Corporation. (See Dennett and Thommen, assignors.)
- United Smelting & Aluminum Co. (See Brile and Lapsides, assignors.)
- United States Tire Company. (See Whittelsey, Charles B., assignor.)
- Uplift Publishing Company. (See Corry, Reuben F., assignor.)
- Urban, Steve, Daisytown, Pa. Toy. No. 52,903; Jan. 14; v. 258; p. 431.
- Van Bergh Silver Plate Company, The. (See Leavenworth, Seth H., assignor.)
- Van Gemert, Cornelius, Albia, Iowa. Game-board. No. 52,862; Jan. 7; v. 258; p. 207.
- Vanatta, Jean K., assignor to Mudge & Company, Chicago, Ill. Engine-base for motor-cars. No. 53,541; July 8; v. 264; p. 336.
- Vandewalker, Earl R. (See Wells and Vandewalker.)
- Vasey, Joseph N., Brookfield, Ill. Phonograph-cabinet. Nos. 53,753-4; Aug. 26; v. 265; pp. 588-9.
- Vaughn, Harry, Jamaica, N. Y. Bottle. No. 53,324; May 13; v. 262; p. 290.
- Velt, Berthold, Freeport, N. Y. Button. No. 53,648; July 22; v. 264; p. 679.
- Vericeel, Antoine, New York, N. Y. Display-stand. No. 53,387; May 27; v. 262; p. 629.
- Vicario, Joseph, New York, N. Y. Combination-tool. No. 53,161; Apr. 1; v. 261; p. 186.
- Victory Manufacturing Company. (See Healy, Martin J., assignor.)
- Victor Rubber Company, The. (See Swinehart, Clark A., assignor.)
- Visible Measure Gasoline Dispenser Company of America. (See Brady, James H., assignor.)
- Vogler, Fred G., assignor to H. Bamforth, New York, N. Y. Emblem, an article of manufacture. No. 53,755; Aug. 26; v. 265; p. 589.
- Voigtlander, Herman R., et al. (See Samson, Edwin J., assignor.)
- Volpe, Michael, Vestaburg, Pa. Wrench. No. 54,293; Dec. 9; v. 269; p. 350.
- Von Lossberg, Victor F., New York, N. Y. Chandelier. No. 53,186; Apr. 8; v. 261; p. 395.
- Von Lossberg, Victor F., New York, N. Y. Standard. Nos. 53,187-9; Apr. 8; v. 261; pp. 395-8.
- Von Tobel, Fritz O., Omaha, Nebr. Combination-tool. No. 53,260; Apr. 29; v. 261; p. 942.
- Von Tobel, Fritz O., (now by judicial change of name M. J. Harding,) New York, N. Y. Holder for a flag or similar article. No. 54,340; Dec. 23; v. 269; p. 682.
- W. G. Cornell Company. (See Slosson, Edward, assignor.)
- Wade, John, St. Paul, Minn. Vehicle-body. No. 53,388; May 27; v. 262; p. 629.
- Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Appendage for cases of watches or similar articles. No. 53,974; Oct. 14; v. 267; p. 328.
- Wadsworth Watch Case Company, The. (See Wadsworth, Arthur W., assignor.)
- Walker, Fred M., Detroit, Mich. Light-globe. No. 53,389; May 27; v. 262; p. 629.
- Wallace & Sons Mfg. Co. (See Wilkes, Samuel G., assignor.)



## Alphabetical list of patentees of designs—Continued.

- Waltham Watch Company. (See Bliss, Benjamin N., assignor.)
- Waltham Watch Company. (See Hull, Edgar L., assignor.)
- Walton, Luther L., Richmond, Va. Wrench. No. 53,620; July 15; v. 264; p. 519.
- Ward, Arthur H. S., London, England. Cork or stopper for bottles. No. 54,294; Dec. 9; v. 269; p. 350.
- Ward Baking Company. (See Ward, George S., assignor.)
- Ward, Clemmie J., Lester, W. Va. Banner. No. 53,950; Oct. 7; v. 267; p. 144.
- Ward, George S., assignor to Ward Baking Company, New York, N. Y. Paraffin-paper wrapper for a loaf of bread. No. 53,261; Apr. 29; v. 261; p. 944.
- Warm-O-Suit Corporation, The. (See Sollen, Adam, assignor.)
- Warner, Charles, Philadelphia, Pa. Comb. No. 54,151; Nov. 4; v. 268; p. 164.
- Warren, John J., assignor to Harmon Paper Company, Brownville, N. Y. Wall-paper. No. 54,152; Nov. 4; v. 268; p. 165.
- Waterbury Mfg Co. (See Wooden, Albert E., assignor.)
- Waterhouse, Frederick A., New Haven, Conn. Flag. No. 53,325; May 13; v. 262; p. 291.
- Watson Company, The. (See Jenks, Barton P., assignor.)
- Way, James R., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Radiator-frame for automobiles and other vehicles. No. 53,228; Apr. 22; v. 261; p. 780.
- Wearne, Harry, New York, N. Y. Article of manufacture. No. 53,262; Apr. 29; v. 261; p. 944.
- Weaver, Orlando L., assignor to The Star Rubber Company, Arkon, Ohio. Tire-casing. No. 54,153; Nov. 4; v. 268; p. 165.
- Webb, Jesse H., et al. (See Worth, George E., assignor.)
- Webb, Zero W., Mound City, Ill. Printing device for photographers. No. 53,213; Apr. 15; v. 261; p. 607.
- Weber, Isaac N., and J. Kaskel, New York, N. Y. Doll, statuette, sculpture, or other article of similar nature. Nos. 53,756-7; Aug. 26; v. 265; p. 589.
- Webster Company. (See Semple, John M., assignor.)
- Webster, Edward T., Milwaukee, Wis. Closet-bowl. No. 52,863; Jan. 7; v. 258; p. 207.
- Webster, Edward T., Milwaukee, Wis. Drinking-fountain. No. 54,342; Dec. 23; v. 269; p. 683.
- Weder, Hermann, Sr., and C. H. Wolff, Philadelphia, Pa. Tongue-depressor. No. 53,649; July 22; v. 264; p. 679.
- Weeks, Frank A., Plainfield, N. J. Loose-leaf pad-calendar holder. No. 53,346; May 20; v. 262; p. 455.
- Weeks, Frank A., Plainfield, N. J. Inkstand. No. 53,951; Oct. 7; v. 267; p. 145.
- Weimar, Robert H., Denver, Colo. Button or badge. No. 53,650; July 22; v. 264; p. 679.
- Weinberg, Isaac H., New York, N. Y. Work-stand. No. 53,058; Mar. 4; v. 260; p. 182.
- Weiner, Morris, and W. Loeb, New York, N. Y. Watch-case or similar article. No. 53,025; Feb. 25; v. 259; p. 758.
- Wellencheck, Henry, New York, N. Y. Clasp for necklaces and similar articles of jewelry. No. 52,926; Jan. 28; v. 258; p. 791.
- Wellman, Lester R., Chicago, Ill., assignor to United Metal Manufacturing Co., Norwich, Conn. Bowl-hook for lighting-fixtures. No. 53,347; May 20; v. 262; p. 455.
- Wellman, Lester R., Chicago, Ill. Bowl-hook for lighting-fixtures. No. 54,154; Nov. 4; v. 268; p. 165.
- Wells, Amelia B., New York, N. Y. Lady's garment. No. 54,155; Nov. 4; v. 268; p. 165.
- Wells, Thomas, and E. R. Vandewalker, Watertown, N. Y. Lamp-standard. No. 53,542; July 8; v. 264; p. 336.
- Wertman, George W., Gary, Ind. Chandelier. No. 53,621; July 15; v. 264; p. 519.
- West, Ralph H., Cleveland, Ohio. Vehicle-wheel. No. 53,142; Mar. 25; v. 260; p. 714.
- West, Ralph H., Cleveland, Ohio. Vehicle-wheel. Nos. 53,543-4; July 8; v. 264; p. 336.
- West, Ralph H., Cleveland, Ohio. Vehicle-wheel. No. 54,156; Nov. 4; v. 268; p. 165.
- Western Electric Company. (See Wotton, James A., assignor.)
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 53,472; June 17; v. 263; p. 463.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Spindle for lighting-fixtures. No. 53,473; June 17; v. 263; p. 463.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Canopy for lighting-fixtures. No. 53,474; June 17; v. 263; p. 463.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 53,475; June 17; v. 263; p. 464.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Spindle for lighting-fixtures. No. 53,476; June 17; v. 263; p. 464.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Plate for lighting-fixtures. No. 53,477; June 17; v. 263; p. 464.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Ring for lighting-fixtures. No. 53,478; June 17; v. 263; p. 464.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Canopy for lighting-fixtures. No. 54,157; Nov. 4; v. 268; p. 165.
- Wheat, George S., New York, N. Y. Button or emblem. No. 53,326; May 13; v. 262; p. 291.
- Wheeling Sanitary & Manufacturing Company. (See Lindley, Jacob, assignor.)
- Whitaker, Lawrence L., and C. C. Ishman, Windber, Pa. Pin. No. 53,758; Aug. 26; v. 265; p. 589.
- White, Frank O., Belleville, Ill. Seat. No. 54,343; Dec. 23; v. 269; p. 683.
- White, John F., assignor, by mesne assignments, to White Products Company, Chicago, Ill. Wind-shield cleaner. No. 53,348; May 20; v. 262; p. 455.
- White Products Company. (See White, John F., assignor.)
- Whitney, Raymond K., Manhattan, Kans. Toy vehicle. No. 54,227; Nov. 18; v. 268; p. 527.
- Whittelsey, Charles B., Hartford, Conn., assignor to United States Tire Company. Tire. No. 52,975; Feb. 4; v. 259; p. 166.
- Whittelsey, Henry N., Greenwich, Conn. Carburetor adjuster-dial. No. 53,169; Apr. 1; v. 261; p. 187.
- Wible, Charles M., Mount Pleasant, Pa. Headlight-lens. No. 54,158; Nov. 4; v. 268; p. 166.
- Wicks, Raider S., assignor to Wicks' Tire & Rubber Products Co., Seattle, Wash. Automobile-tire. No. 53,190; Apr. 8; v. 261; p. 396.
- Wicks' Tire & Rubber Products Co. (See Wicks, Raider S., assignor.)
- Widmer, Charles A., Paterson, N. J. Indicator, sign, or similar article. Nos. 53,545-7; July 8; v. 264; p. 337.
- Wiener, Martin L., Akron, assignor to The Oldfield Tire Company, Cleveland, Ohio. Pneumatic tire. No. 53,143; Mar. 25; v. 260; p. 714.
- Wiener, Martin L., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Pneumatic tire. No. 53,279; May 6; v. 262; p. 145.
- Wilhelm, Joseph. (See Kays and Wilhelm.)
- Wilkes, Samuel G., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Teapot or similar article. Nos. 54,188-9; Nov. 11; v. 268; p. 341.
- Wilkins, John H., Washington, D. C. Bag for containing merchandise. No. 53,723; Aug. 19; v. 265; p. 438.
- Will & Baumer Co., The. (See Will, Harold H., assignor.)
- Will, Harold H., assignor to The Will & Baumer Co., Syracuse, N. Y. Candle. No. 53,404; June 3; v. 263; p. 145.
- Willard Storage Battery Company. (See Cook, Thomas R., assignor.)
- Willeke, Joseph G., Seattle, Wash. Cabinet for phonographs or the like. No. 54,228; Nov. 18; v. 268; p. 527.
- Willenbacher, August, Hackensack, N. J., assignor to Royal Art Glass Company, New York, N. Y. Lamp-shade-bracket piece. No. 53,622; July 15; v. 264; p. 519.
- William S. Pitcairn Corporation. (See Noke, Charles J., assignor.)
- William Wharton, Jr. & Co. (See Stothoff, William S., assignor.)
- Williams Foundry & Machine Co. (See Flynn, John, assignor.)
- Willys-Overland Company, The. (See McKinley and Goodall, assignors.)
- Wilson, Allen P., assignor to Boston Pencil Pointer Company, Waltham, Mass. Cutter for pencil-sharpener. Nos. 53,869-70; Sept. 16; v. 266; p. 427.
- Wilson Bros. (See Wilson, John H., assignor.)
- Wilson, Elihu C. and W. W. Los Angeles, Calif., assignors to said W. W. Wilson. Underreamer-cutter. No. 53,623; July 15; v. 264; p. 519.
- Wilson, Harry A., Salisbury, Md. Wooden ice-cream spoon. No. 53,548; July 8; v. 264; p. 337.
- Wilson, John H., assignor to Wilson Brothers, Minneapolis, Minn. Service-easel. No. 53,059; Mar. 4; v. 260; p. 182.
- Wilson, John H., assignor to Wilson Bros., Minneapolis, Minn. Clock-stand. No. 54,295; Dec. 9; v. 269; p. 350.
- Wilson, William W. (See Wilson, Elihu C. and W. W.)
- Wilteln, Rudolph, Proctor, Colo. Button. No. 53,871; Sept. 16; v. 266; p. 427.
- Wiltz, Albert, Addy, Wash. Fluid-pump casing. No. 53,695; Aug. 5; v. 265; p. 127.
- Winsten, Harry J., assignor to Schuykill Silk Mills, Reading, Pa. Undergarment. No. 53,095; Mar. 11; v. 260; p. 377.
- Wischhusen, Fred. (See Wischhusen, Henry and F.)
- Wischhusen, Henry, Melrose, and F. Wischhusen, Malden, Mass. Christmas bell. No. 53,952; Oct. 7; v. 267; p. 145.
- Wisniewski, Joseph, Attleboro, Mass. Plaque, emblem, or similar article. No. 54,344; Dec. 23; v. 269; p. 683.
- Witsaman, George H., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Tire. No. 53,096; Mar. 11; v. 260; p. 378.
- Wolf, William C., Fort Wayne, Ind. Furnace-casing. No. 54,159; Nov. 4; v. 268; p. 166.
- Wolff, Charles H. (See Weder and Wolff.)
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Phonograph-cabinet. No. 53,097; Mar. 11; v. 260; p. 378.



*Alphabetical list of patentees of designs—Continued.*

- Wolff, Joseph, Brooklyn, N. J., assignor to Sonora Phonograph Corporation. Carrying-case for phonographs or similar articles. No. 53,953; Oct. 7; v. 267; p. 145.
- Wolski, Hieronem A., and G. Hajewska, Buffalo, N. Y. Display-stand. No. 53,390; May 27; v. 262; p. 630.
- Wolsten, Jacob, Newark, N. J. Combined spoon and fork. Nos. 53,170-1; Apr. 1; v. 261; p. 187.
- Wolter, Antone E., Everett, Wash. Automobile-radiator ornament. No. 53,759; Aug. 26; v. 265; p. 589.
- Wood, Eric F., New York, N. Y. Emblem-button. No. 54,298; Dec. 9; v. 269; p. 350.
- Wood, Frank B., *et al.* (See Griffith, George H., assignor.)
- Woodbury, Carl, Los Angeles, Calif. Dust-cap. No. 53,172; Apr. 1; v. 261; p. 187.
- Wooden, Albert E., assignor to Waterbury Mfg. Co., Waterbury, Conn. Sheet-metal hot-water bottle. No. 53,098; Mar. 11; v. 260; p. 378.
- Woodruff, Robert L., Windsor, Ga. Shingle. No. 54,160; Nov. 4; v. 268; p. 166.
- Woods Mobilette Company. (See Sheridan, James W., assignor.)
- Woodward, Elizabeth G., *et al.*, executors. (See Woodward, Henry J.)
- Woodward, Henry J., deceased, Peoria, Ill.; F. F. Blossom and E. G. Woodward, executors. Powder-box. No. 53,624; July 15; v. 264; p. 519.
- Wooten, Marion F., Charlotte, N. C. Pin, button, badge, emblem, insignia, medal, watch-fob, or article of similar nature. No. 53,263; Apr. 29; v. 261; p. 944.
- Worth, George E., assignor to J. H. Webb and J. Gell, Rochester, N. Y. Child's vehicle. No. 54,161; Nov. 4; v. 268; p. 166.
- Worthington, Paul B., Norwalk Conn. Lace curtain. No. 54,115; Nov. 4; v. 268; p. 158.
- Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-receiver support. No. 53,000; Feb. 11; v. 259; p. 360.
- Wrigley, Philip K., Chicago, Ill. Carton. No. 53,724; Aug. 19; v. 265; p. 438.
- Wright, Clarence, assignor to Racine Auto Tire Company, Racine, Wis. Vehicle tire or casing. No. 53,479; June 17; v. 263; p. 464.
- Wright, Clarence, assignor to Racine Auto Tire Company, Racine, Wis. Heel or lift for boots, shoes, or articles of similar nature. No. 53,625; July 15; v. 264; p. 520.
- Wurthmann, George C., Jersey City, N. J., assignor to George Borgfeldt & Co., New York, N. Y. Canister or similar article. No. 53,264; Apr. 29; v. 261; p. 944.
- Wyatt, De Witt H., assignor to C. A. Divine, Columbus, Ohio. Combined lamp-bracket and sign-support. No. 53,549; July 8; v. 264; p. 337.
- Wyatt, De Witt H., assignor to C. A. Divine, Columbus, Ohio. Combined lamp-standard and street-indicator. No. 53,550; July 8; v. 264; p. 338.
- Wygant, Frederick A., assignor to The A. J. Deer Company, Incorporated, Hornell, N. Y. Frame for slicing-machines. No. 53,551; July 8; v. 264; p. 338.
- Yale Tire & Rubber Company, The. (See Phillips, Ernest S., assignor.)
- Yardley, Horace R., Chicago, Ill., assignor to R. Williamson & Co. Lighting-fixture. Nos. 54,190-2; Nov. 11; v. 268; p. 341.
- Yates, George W., West Hoboken, N. J. Coin-receiver. No. 53,954; Oct. 7; v. 267; p. 145.
- Yeakey, Robert L., Cave in Rock, Ill. Case for musical instruments. No. 52,927; Jan. 28; v. 258; p. 791.
- Yilling, John, Akron, Ohio. Game-board. No. 53,099; Mar. 11; v. 260; p. 378.
- Young, Homer J., Dayton, Ohio. Separator-casing. No. 54,116; Nov. 4; v. 268; p. 158.
- Young, Hugo H., Loudonville, Ohio. Movable holder for books or the like. No. 52,904; Jan. 14; v. 258; p. 431.
- Zagmester, Frank, La Salle, N. Y. Condiment-holder. No. 52,864; Jan. 7; v. 258; p. 207.
- Zamecnik, Frank, Washington, D. C. Musical-instrument case. No. 53,327; May 13; v. 262; p. 291.
- Zeger, Tony, Sharpsburg, Pa. Automobile-tire. No. 54,345; Dec. 23; v. 269; p. 683.
- Zimmelman, Guy A., assignor of one-half to D. L. Cook, Forest, Ohio. Cabinet. No. 54,297; Dec. 9; v. 269; p. 350.
- Zisk, Anthony, Baltimore, Md. Combined scholar's companion and puzzle. No. 53,391; May 27; v. 262; p. 630.
- Ziska, Adam, Jr., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Motorcycle. No. 54,346; Dec. 23; v. 269; p. 683.
- Ziv, Abraham J., assignor to Tip Top Toy Company, Chicago, Ill. Statuette, doll, or similar article. No. 53,626; July 15; v. 264; p. 520.
- Zizelman, Marietta G., New York, N. Y. Combined fork and knife. No. 54,298; Dec. 9; v. 269; p. 351.
- Zurbrigg, Daniel A., assignor to The L. D. Caulk Company, Milford, Del. Dental plastic instrument. No. 53,955; Oct. 7; v. 267; p. 145.
- Zurbrigg, Daniel A., assignor to The L. D. Caulk Company, Milford, Del. Dental carving instrument. No. 53,956; Oct. 7; v. 267; p. 145.
- Zurbrigg, Daniel A., assignor to The L. D. Caulk Company, Milford, Del. Dental burnisher. No. 53,957; Oct. 7; v. 267; p. 146.
- Zurbrigg, Daniel A., assignor to The L. D. Caulk Company, Milford, Del. Dental trimming-file. No. 53,958; Oct. 7; v. 267; p. 146.



# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- A. Allan & Son, Harrison, N. J. Non-ferrous alloys. No. 126,507; Sept. 16; v. 266; p. 445.
- A. Allan & Son, Harrison, N. J. Non-ferrous alloys. No. 126,916; Oct. 14; v. 267; p. 335.
- A. Baldwin & Co., Limited, New Orleans, La. Certain named cutlery, machinery, and tools, and parts thereof. No. 125,556; May 27; v. 262; p. 643.
- A. Bourjois & Co., Inc., New York, N. Y. Face-powder. No. 124,287; Feb. 4; v. 259; p. 177.
- A. Bourjois & Co., Inc., New York, N. Y. Face-powder. No. 125,930; July 15; v. 264; p. 531.
- A. Bourjois & Co., Inc., New York, N. Y. Rouge. No. 126,133; July 29; v. 264; p. 839.
- A. Flanagan Company, Chicago, Ill. Paper and stationery. No. 127,231; Oct. 28; v. 267; p. 643.
- A. Hoenigsberger, Chicago, Ill. Pile fabrics. No. 127,950; Dec. 16; v. 269; p. 542.
- A. Kleit & Sons Company, Cleveland, Ohio. Canned vegetables, dried fruits, jams, jellies, and relishes. No. 124,253; Jan. 28; v. 258; p. 810.
- A. Mecky Company, Philadelphia, Pa. Electric heaters and lamps in the form of a unitary article. No. 124,324; Feb. 4; v. 259; p. 178.
- A. Phillips & Co., Inc., New York, N. Y. Clothing. No. 126,953; Oct. 14; v. 267; p. 336.
- A. Priesmeyer Shoe Company, Jefferson City, Mo. Gaiters or spats. No. 126,061; July 22; v. 264; p. 693.
- A. Schreiber Brewing Co., Buffalo, N. Y. Non-intoxicating cereal beverage. No. 127,497; Nov. 11; v. 268; p. 375.
- A. Steinhardt & Bro., New York, N. Y. Snap-fasteners, books and eyes, pins, &c. No. 124,158; Jan. 14; v. 258; p. 446.
- A. Strassburger Company, Inc., Pittsburgh, Pa. Medicated salt-spirit. No. 126,610; Sept. 23; v. 266; p. 593.
- A. Wittnauer Co., New York, N. Y. Watches, watch-movements, and parts thereof, watchcases. No. 124,806; Mar. 11; v. 260; p. 390.
- A. & A. Underberg, Chicago, Ill. Washing compound. No. 125,685; June 3; v. 263; p. 163.
- A. B. Ansbacher & Company, Inc., New York, N. Y. Soluble blue. No. 125,951; July 22; v. 264; p. 695.
- A. B. Newman Co., New York, N. Y. Cigarette-papers. No. 126,324; Aug. 19; v. 265; p. 453.
- A. C. Lawrence Leather Co., Boston, Mass. Leather. Nos. 125,232-3; Apr. 22; v. 261; p. 796.
- A. D. Adair & McCarty Bros., Inc., Atlanta, Ga. Cotton-plant fertilizer. No. 125,774; June 17; v. 263; p. 477.
- A. G. Spalding & Bros., New York, N. Y. Playing-balls. No. 126,090; July 22; v. 264; p. 699.
- A. G. Spalding & Bros., New York, N. Y. Certain named toys and sporting goods. No. 126,351; Aug. 19; v. 265; p. 454.
- A. H. Rice Co., Pittsfield, Mass. Sewing-silks. No. 127,490; Nov. 11; v. 268; p. 374.
- A. H. Vogel & Co., Inc., New York, N. Y. Fur coats, coats, wraps, capes, scarfs, muffs. No. 124,802; Mar. 11; v. 260; p. 389.
- A. J. Churchill Co., Inc., Portland, Oreg. Sphagnum-moss sanitary napkins. No. 127,177; Oct. 21; v. 267; p. 483.
- A. J. Picard and Co., Inc., New York, N. Y. Spark-plugs, electric cables, &c. No. 127,659; Nov. 18; v. 268; p. 559.
- A. M. Collins Manufacturing Company. (See Miln, James, assignor.)
- A. R. Haeuser Co., New York, N. Y. Varnishes, shellacs, lacquers, and finishes. No. 126,692; Sept. 30; v. 266; p. 735.
- A. S. Rosenthal Co., New York, N. Y. Silk piece goods. No. 126,762; Sept. 30; v. 266; p. 737.
- A. S. Rosenthal Co., New York, N. Y. Silk piece goods. No. 127,246; Oct. 28; v. 267; p. 644.
- A. T. Cross Pencil Co., Providence, R. I. Parts of fountain-pens and stylographic pens and lead-pencils. No. 127,221; Oct. 28; v. 267; p. 643.
- A. V. Victorius & Co., Inc., New York, N. Y. Hosiery. No. 124,801; Mar. 11; v. 260; p. 389.
- A. V. Victorius & Co., Inc., New York, N. Y. Hosiery for men and women. No. 126,498; Aug. 26; v. 265; p. 631.
- A-Z Co., The, New York, N. Y. Radiators for automobiles. No. 125,017; Apr. 8; v. 261; p. 405.
- Aaron Ferer & Sons, St. Louis, Mo., and Omaha, Nebr. Oil and grease wiping and cleaning cloths. No. 127,392; Nov. 11; v. 268; p. 371.
- Abbot Jacket Manufacturing Company, St. Louis, Mo. Trousers, aprons, jackets, caps, shirts. No. 124,212; Jan. 28; v. 258; p. 809.
- Abbott Chemical Co., Boston, Mass. Indigestion-tablets. No. 125,012; Apr. 8; v. 261; p. 405.
- Abbott Laboratories, The, Chicago, Ill. Drugs and pharmaceutical preparations. No. 127,803; Dec. 9; v. 269; p. 387.
- Abe Bloch and Co., Cincinnati, Ohio. Men's and young men's coats, vests, and trousers. No. 127,333; Nov. 11; v. 268; p. 370.
- Abernathy, Samuel E., Indianapolis, Ind. Hair preparation and tonic, hair-growers, temple-grower, &c. No. 127,304; Nov. 11; v. 268; p. 369.
- Abrash, S., Paterson, N. J. Silk and silk-mixed fabrics. No. 124,432; Feb. 18; v. 259; p. 571.
- Acadia Mills, Methuen, Lawrence, and Boston, Mass. Cotton thread and yarn. No. 124,567; Feb. 25; v. 259; p. 773.
- Ace Waist Co., Inc., New York, N. Y. Ladies' waists. No. 125,946; July 22; v. 264; p. 695.
- Acme Rubber Manufacturing Company, Trenton, N. J. Fruit-jar rubbers. No. 128,211; Dec. 23; v. 269; p. 701.
- Acme Specialty Manufacturing Company, The, Toledo, Ohio. Mirrors. No. 125,604; May 27; v. 262; p. 644.
- Adam Brothers & Sellers Company, Houston, Tex. Canned vegetables, peas and pork, beans and pork, pear preserves. No. 124,496; Feb. 25; v. 259; p. 771.
- Adam-Christian Co., Richmond, Va. Ginger-ale. No. 127,172; Oct. 21; v. 267; p. 483.
- Adam H. Bartel Co., Richmond, Ind. Overalls. No. 127,322; Nov. 11; v. 268; p. 369.
- Adams, Cushing & Foster, Inc., Boston, Mass. Fountains. No. 125,378; May 20; v. 262; p. 473.
- Adie, Andrew, Newton, Mass. Sweaters. No. 125,947; July 22; v. 264; p. 695.
- Adjustable Artificial Limb Co., Inc., New York, N. Y. Crutches. No. 124,433; Feb. 18; v. 259; p. 571.
- Adler, Raymond C., Dayton, Ohio. Children's outer garments. No. 128,212; Dec. 23; v. 269; p. 701.
- Advance Automobile Accessories Corp., Chicago, Ill. Fabric linings for transmissions and brakes. No. 125,699; June 3; v. 263; p. 164.
- Advance-Rumely Co., Laporte, Ind. Agricultural machinery. No. 126,811; Sept. 30; v. 266; p. 739.
- Aetna Life Insurance Company, Hartford, Conn. Printed books, booklets, pamphlets, and manuals. No. 125,013; Apr. 8; v. 261; p. 405.
- Agasote Millboard Co., The, Ewing township, Mercer county, N. J. Building and structural material. No. 126,506; Sept. 16; v. 266; p. 445.
- Agra Company, Detroit, Mich. Talcum powder. No. 125,924; July 15; v. 264; p. 531.
- Agrippa Manufacturing Corporation, New York, N. Y. Textile belting. No. 124,067; Jan. 14; v. 258; p. 443.
- Agrippa Manufacturing Corporation, New York, N. Y. Belt-dressing. No. 126,977; Oct. 21; v. 267; p. 477.
- Ahrens, Max J., New York, N. Y. Chocolate candles. No. 124,946; Apr. 1; v. 261; p. 197.
- Aikman, F. H., Toronto, Ontario, Canada, and Omaha, Nebr. Non-alcoholic maltless beverages. No. 126,915; Oct. 14; v. 267; p. 335.
- Air Reduction Company, Incorporated, New York, N. Y. Compressed gases. No. 125,118; Apr. 15; v. 261; p. 625.
- Ajax Rubber Company, Inc., Millbrook, N. Y. Certain named pneumatic-tire accessories. No. 124,068; Jan. 14; v. 258; p. 443.
- Ajax Rubber Company, Inc., Millbrook, N. Y. Certain named pneumatic-tire accessories. No. 124,648; Mar. 11; v. 260; p. 385.
- Ajax Rubber Company, Inc., Millbrook, N. Y. Rubber composition. No. 124,809; Mar. 18; v. 260; p. 555.
- Akron Brewing Company, Akron, Ohio. Non-intoxicating malt beverage. No. 124,213; Jan. 28; v. 258; p. 809.
- Aktiebolaget Exact, Stockholm, Sweden. Locks and parts thereof and keys. No. 128,213; Dec. 23; v. 269; p. 701.
- Alamo Farm Light Company, Chicago, Ill. Unitary outfits for generating electric current. No. 127,804; Dec. 9; v. 269; p. 387.
- Alaska Beverage Company, Juneau, Alaska. Malt beverages. No. 127,209; Oct. 28; v. 267; p. 643.
- Alaska-Pacific Herring Co., Seattle, Wash. Canned salmon. No. 124,214; Jan. 28; v. 258; p. 809.
- Alaska-Pacific Herring Co., Seattle, Wash. Canned salmon. No. 124,947; Apr. 1; v. 261; p. 197.
- Alaska Refrigerator Company, The, Muskegon Heights, Mich. Refrigerators. No. 126,233; Aug. 19; v. 265; p. 451.
- Albany Chemical Co., Albany, N. Y. Egg-preservative. No. 126,375; Aug. 26; v. 265; p. 627.
- Albany Perforated Wrapping Paper Company, Albany, N. Y. Paper towels. No. 126,618; Sept. 30; v. 266; p. 753.
- Albrecht, Otto E., St. Paul, Minn. Furs. No. 127,306; Nov. 11; v. 268; p. 369.
- Aldon Company, Chicago, Ill. Car-replacers. No. 128,214; Dec. 23; v. 269; p. 701.
- Alex. D. Shaw & Co., New York, N. Y. Olive-oil. No. 127,504; Nov. 11; v. 268; p. 375.
- Alexr. Young Distilling Comp., Philadelphia, Pa. Whisky. No. 125,264; Apr. 22; v. 261; p. 797.



- Alexander Hamilton Institute, New York, N. Y. Publications. No. 125,948; July 22; v. 264; p. 695.
- Alexander Proper Co., Inc., New York, N. Y. Certain named clothing. No. 125,581; May 27; v. 262; p. 643.
- Alfred Beer Co., New York, N. Y. Dress and shirt waists. No. 125,018; Apr. 8; v. 261; p. 405.
- Alfred L. Simon & Co., New York, N. Y. Millinery-felts. No. 124,477; Feb. 18; v. 259; p. 572.
- Alfred Wright, Inc., Philadelphia, Pa. Certain named toilet preparations. No. 125,859; June 17; v. 263; p. 479.
- All-Americas Medicine Corporation, New York, N. Y. Medicinal preparation used in the treatment of affected respiratory organs. No. 124,497; Feb. 25; v. 259; p. 771.
- All-Americas Medicine Corporation, New York, N. Y. Medicinal preparation for affected respiratory organs. No. 124,649; Mar. 11; v. 260; p. 385.
- All-Car Unit Company, Philadelphia, Pa. Units for converting motor-car chassis into commercial-truck chassis. No. 124,359; Feb. 11; v. 259; p. 379.
- "All" Trading Corporation, Chicago, Ill. Men's, women's, and children's shoes. No. 126,816; Oct. 7; v. 267; p. 177.
- Allen and Black, Cleveland, Ohio. Pamphlets and coupons used as mediums of exchange. No. 125,379; May 20; v. 262; p. 473.
- Allen Milling Company, Niagara Falls, N. Y. Poultry feed. No. 124,215; Jan. 28; v. 258; p. 809.
- Allen-Nugent Co., New York, N. Y. Weekly publication. No. 127,805; Dec. 9; v. 269; p. 387.
- Allied Machinery Company of America, New York, N. Y. Carpenters' and machinists' tools, metal-working and woodworking machinery. No. 126,978; Oct. 21; v. 267; p. 477.
- Allison, Estelle, New York, N. Y. Dolls. No. 126,234; Aug. 19; v. 265; p. 451.
- Allsopp, Frederick M., Letchworth, England. Artificial leather. No. 126,118; July 29; v. 264; p. 859.
- Alpha Lunch Co., Worcester, Mass. Cooked meats, fish, and poultry, uncooked fruits, sandwiches, pies, &c. No. 124,277; Feb. 4; v. 259; p. 177.
- Alphonsus, Joshua S., New York, N. Y. Preparation for the treatment of asthma and bronchial and catarrhal affections. No. 125,014; Apr. 8; v. 261; p. 405.
- Altorfer Bros. Company, Peoria, Ill. Laundry-washing machines. No. 127,572; Nov. 18; v. 268; p. 557.
- Alvey Manufacturing Company, St. Louis, Mo. Machinery and tools and parts. No. 127,173; Oct. 21; v. 267; p. 483.
- Alvore Chemical Company, Chicago, Ill. A dentifrice and a combination of alkaloids in solution for pyorrhea, &c. No. 125,185; Apr. 22; v. 261; p. 795.
- Aluminum Ware Manufacturing Co. Inc., Elmira, N. Y. Aluminum utensils. No. 126,119; July 29; v. 264; p. 859.
- Anamoto, Aigi, Nagasaki, Japan. Medicinal preparation for treating certain named diseases and disorders. No. 126,235; Aug. 19; v. 265; p. 451.
- Amar, Salvador, New York, N. Y. Cotton piece goods—viz., sheeting. No. 128,215; Dec. 23; v. 269; p. 701.
- Ambrose Wilson Limited, London, England. Abdominal belts. No. 124,631; Feb. 25; v. 259; p. 775.
- American Agricultural Chemical Co., New York, N. Y. Fertilizers. No. 124,217; Jan. 28; v. 258; p. 809.
- American Auto Lamp Co., Inc., New York, N. Y. Acetylene and oil automobile-lamps. No. 124,948; Apr. 1; v. 261; p. 197.
- American Bleached Goods Company, New York, N. Y. Cotton piece goods. No. 125,380; May 20; v. 262; p. 473.
- American Bosch Magneto Corporation, Springfield, Mass. Electrical apparatus. No. 127,210; Oct. 28; v. 267; p. 643.
- American Broach & Machine Co., Ann Arbor, Mich. Broaching-machines, broaches, &c. No. 126,979; Oct. 21; v. 267; p. 477.
- American Brokerage Company, Sioux City, Iowa. Certain named medicines, &c. No. 125,381; May 20; v. 262; p. 473.
- American Broom Manufacturing Co., New Orleans, La. Brooms. No. 124,216; Jan. 28; v. 258; p. 809.
- American Butterine Co., Jersey City, N. J. Oleomargarin. No. 126,236; Aug. 19; v. 265; p. 451.
- American Can Co., New York, N. Y. Sheet metal ornamented with a decorative coating. No. 127,174; Oct. 21; v. 267; p. 483.
- American Can Company, New York, N. Y. Cans, boxes, and cartons of paper or fiber. No. 126,120; July 29; v. 264; p. 859.
- American Candy Co., Milwaukee, Wis. Candy. No. 124,810; Mar. 18; v. 260; p. 555.
- American Chain Company, Incorporated, Bridgeport, Conn. Certain named hardware and plumbing and steam-fitting supplies. No. 124,278; Feb. 4; v. 259; p. 177.
- American Chausseur Publishing Company, The, Cincinnati, Ohio. Monthly publication. No. 124,279; Feb. 4; v. 259; p. 177.
- American Conduit Manufacturing Company, Pittsburgh, Pa. Electrical-wiring fixtures. No. 124,280; Feb. 4; v. 259; p. 177.
- American Conduit Manufacturing Company, The, Pittsburgh, Pa. Electrical-wiring conduits. No. 126,508; Sept. 16; v. 266; p. 445.
- American Core-Twine Company, Boston, Mass. Clothes-line. No. 125,949; July 22; v. 264; p. 695.
- American Cutlery Company, Chicago, Ill. Electric coffee-percolators, chafing-dishes, &c. No. 127,307; Nov. 11; v. 268; p. 369.
- American Cyanamid Company, New York, N. Y. Cyanamid, sulfate of ammonia, &c. No. 124,434; Feb. 18; v. 259; p. 571.
- American Cyanamid Company, New York, N. Y. Certain named chemicals, medicines, pharmaceutical preparations. No. 124,650; Mar. 11; v. 260; p. 385.
- American Drug & Press Association, Decorah, Iowa. Perfumes, toilet waters, talcum and face powders, toilet creams. No. 127,573; Nov. 18; v. 268; p. 557.
- American Druggists Syndicate, Long Island City, N. Y. Disinfectant and antiseptic. No. 126,817; Oct. 7; v. 267; p. 177.
- American Economy Products Co., Inc., Boston, Mass. Egg substitute. No. 124,651; Mar. 11; v. 260; p. 385.
- American Electric Co., Chicago, Ill. Telephone-brackets. No. 127,574; Nov. 18; v. 268; p. 557.
- American Flour Corporation, New York, N. Y. Wheat-flour. Nos. 127,259-60; Nov. 4; v. 268; p. 187.
- American Flour Corporation, New York, N. Y. Wheat-flour. Nos. 127,308-9; Nov. 11; v. 268; p. 369.
- American Hat Mfg. Co., Inc., The, Norwalk, Conn. Hats for men and boys. No. 126,818; Oct. 7; v. 267; p. 177.
- American Hominy Company, Indianapolis, Ind. Corn-flour. No. 124,435; Feb. 18; v. 259; p. 571.
- American Hominy Company, Indianapolis, Ind. Breakfast-cereal in flake form. No. 126,620; Sept. 30; v. 266; p. 733.
- American Hosiery Company, The, New Britain, Conn. Undershirts, underdrawers, &c. No. 126,819; Oct. 7; v. 267; p. 177.
- American Insulating Machinery Company, Philadelphia, Pa. Certain named cutlery, machinery, tools, and parts thereof. No. 124,652; Mar. 11; v. 260; p. 385.
- American Insulation Company, Philadelphia, Pa. Pipe and boiler coverings. No. 124,185; Jan. 21; v. 258; p. 641.
- American La France Fire Engine Co., Inc., Elmira, N. Y. Fire-engines, water-towers, &c. No. 125,861; June 24; v. 263; p. 631.
- American Lace Mfg. Co., The, Elyria, Ohio. Cotton camisole-laces. No. 124,653; Mar. 11; v. 260; p. 385.
- American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 125,889; July 8; v. 264; p. 349.
- American Lead Pencil Company, New York, N. Y. Lead and drawing pencils, chalk, crayons. No. 125,890; July 8; v. 264; p. 349.
- American Lead Pencil Company, New York, N. Y. Lead and drawing pencils, crayon-chalk, crayons. No. 126,621; Sept. 30; v. 266; p. 733.
- American Lead Pencil Company, New York, N. Y. Pen-holders. No. 126,622; Sept. 30; v. 266; p. 733.
- American Locomotive Company, New York, N. Y. Flexible stay-bolts. No. 126,121; July 29; v. 264; p. 859.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope manufactured from vegetable fiber. No. 124,811; Mar. 18; v. 260; p. 555.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, twine. No. 125,775; June 17; v. 263; p. 477.
- American Marine Paint Company, San Francisco, Calif. Marine paints. No. 125,321; May 13; v. 262; p. 309.
- American Mutual Seed Company, Chicago, Ill. Seeds. Nos. 127,310-11; Nov. 11; v. 268; p. 369.
- American Nicanide Company, Los Angeles, Calif. Solid chemical compound for extracting copper and other metals from ores, &c. No. 126,122; July 29; v. 264; p. 859.
- American Pacific Co., Ltd., San Francisco, Cal. Petroleum products. No. 124,281; Feb. 4; v. 259; p. 177.
- American Pacific Whaling Company, Tacoma, Wash. Canned whale-steak. No. 126,980; Oct. 21; v. 267; p. 477.
- American Paint Products Co., Chicago, Ill. Certain named paints and painter's materials. No. 124,654; Mar. 11; v. 260; p. 385.
- American Pharmacal Co., Sturgis, Mich. Eliminate tonic for use in febrile conditions. No. 125,322; May 13; v. 262; p. 309.
- American Pin Company, Waterbury, Conn. Metal air-valves for general use. No. 126,123; July 29; v. 264; p. 859.
- American Pop Corn Company, Sioux City and Schaller, Iowa. Popping corn. Nos. 125,925-7; July 15; v. 264; p. 531.
- American Pop Corn Company, Sioux City and Schaller, Iowa. Popping-corn. No. 126,124; July 29; v. 264; p. 859.
- American Products Company, Detroit, Mich. Non-intoxicating cereal beverage. No. 125,776; June 17; v. 263; p. 477.
- American Sheet & Tin Plate Company, Pittsburgh, Pa. Certain named metals and metal castings and forgings. No. 126,125; July 29; v. 264; p. 859.



*Alphabetical list of registrants of trade-marks—Continued.*

- American Snap Fastener Co., Inc., New York, N. Y. Snap-fasteners. No. 125,015; Apr. 8; v. 261; p. 405.
- American Soap & Washoline Co., Cohoes, N. Y. Washing compounds or mixtures. No. 124,655; Mar. 11; v. 260; p. 385.
- American Stove Company, St. Louis, Mo. Cooking-stoves, plumbers', painters', and tailors' furnaces, &c. No. 126,623; Sept. 30; v. 266; p. 733.
- American Sugar Refining Company, Jersey City, N. J., and New York, N. Y. Icing for use as a food. No. 126,237; Aug. 19; v. 265; p. 451.
- American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Meringue-powder. No. 126,376; Aug. 26; v. 265; p. 627.
- American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Honey. No. 126,377; Aug. 26; v. 265; p. 627.
- American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Sugar. No. 126,624; Sept. 30; v. 266; p. 733.
- American Textile Products Company, Chicago, Ill. Garters and hose-supporters. No. 125,891; July 8; v. 264; p. 349.
- American Tobacco Co., The, New York, N. Y. Cigarettes. Nos. 126,238-9; Aug. 19; v. 265; p. 451.
- American Writing Paper Co., Holyoke, Mass. Printing and writing paper. Nos. 126,625-6; Sept. 30; v. 266; p. 733.
- American Zinc, Lead & Smelting Co., Boston, Mass., and St. Louis, Mo. Zinc oxids for use as paint-pigments. Nos. 126,627-30; Sept. 30; v. 266; p. 733.
- American Zinc, Lead & Smelting Co., Boston, Mass., and St. Louis, Mo. Zinc oxids for use as paint-pigments. Nos. 126,820-1; Oct. 7; v. 267; p. 177.
- Amolin Company, The. (See Lodi Corporations, assignors.)
- Amory Browne Export Corp., Boston, Mass., and New York, N. Y. Cotton piece goods. No. 125,716; June 10; v. 263; p. 327.
- Anacortes Fisheries Co., Seattle, Wash. Canned salmon. No. 125,553; May 27; v. 262; p. 643.
- Anacortes Fisheries Co., Seattle, Wash. Canned salmon. No. 127,261; Nov. 4; v. 268; p. 187.
- Anaheim Orange & Lemon Association, Anaheim, Calif. Fresh citrus fruits. Nos. 126,982-3; Oct. 21; v. 267; p. 477.
- Anaheim Orange & Lemon Association, Anaheim, Calif. Fresh citrus fruits. No. 127,262; Nov. 4; v. 268; p. 187.
- Anchor Leather Co., Chicago, Ill. Tanned leather hides for shoe-uppers. No. 125,892; July 8; v. 264; p. 349.
- Anchor Leather Co., Chicago, Ill. Tanned leather hides for shoe-uppers. No. 125,950; July 22; v. 264; p. 695.
- Andersen, Meyer & Co., Ltd., New York, N. Y. Bristles and hair. No. 124,070; Jan. 14; v. 258; p. 443.
- Andersen, Meyer & Co., Limited, New York, N. Y., and Shanghai, China. Dye. Nos. 127,705-10; Dec. 2; v. 269; p. 185.
- Anderson, Frederick, Baltimore, Md. Liniment. No. 127,312; Nov. 11; v. 268; p. 369.
- Anderson, George, Chicago, Ill. Window-shade support. No. 125,186; Apr. 22; v. 261; p. 795.
- Andresen, Viggo V. J., Copenhagen, Denmark. Mouth-washes and dental medicaments. No. 124,171; Jan. 14; v. 258; p. 446.
- Andrew Jergens Company, Cincinnati, Ohio. Perfumes and toilet waters. No. 127,424; Nov. 11; v. 268; p. 372.
- Andrews, Byron N., Eastport, Me. Preparation for coughs and colds. No. 124,498; Feb. 25; v. 259; p. 771.
- Andrews, Champe S., Chattanooga, Tenn. Hosiery. Nos. 128,216-17; Dec. 23; v. 269; p. 701.
- Androscoggin Mills, Lewiston, Me. Cotton piece goods. No. 126,726; Sept. 30; v. 266; p. 736.
- Androscoggin Mills, Lewiston, Me. Cotton piece goods and quilts. No. 128,129; Dec. 23; v. 269; p. 699.
- Angelus Shoe Polish Company, Los Angeles, Cal. Shoe and heel dressing. No. 124,071; Jan. 14; v. 258; p. 443.
- Angle Steel Stool Co., Otsego, Mich. Stools, chairs, tables &c., for factory use. No. 126,984; Oct. 21; v. 267; p. 477.
- Anglo-American Pharmaceutical Corporation, New York, N. Y. Menthol and wintergreen cream for sciatica, neuralgia, &c. No. 127,575; Nov. 18; v. 268; p. 557.
- Anheuser-Busch Brewing Association, St. Louis, Mo. Animal feed. Nos. 127,576-7; Nov. 18; v. 268; p. 557.
- Anheuser-Busch Brewing Association, St. Louis, Mo. Animal feed. No. 127,806; Dec. 9; v. 269; p. 387.
- Annette Island Packing Co., Seattle, Wash. Canned salmon. No. 124,656; Mar. 11; v. 260; p. 385.
- Annin & Co., New York, N. Y. Manufactured flags. Nos. 124,072-4; Jan. 14; v. 258; p. 443.
- Annin & Co., New York, N. Y. Manufactured flags. No. 124,360; Feb. 11; v. 259; p. 379.
- Apalachee Packing Company, Apalachicola, Fla. Canned oysters. No. 124,186; Jan. 21; v. 258; p. 641.
- Apex Appliance Company, Chicago, Ill. Ironing-machines. No. 125,119; Apr. 15; v. 261; p. 625.
- Apex Electrical Mfg. Co., The, Cleveland, Ohio. Power-operated washing, wringing, and laundrying machines. No. 124,436; Feb. 18; v. 259; p. 571.
- Apex Steel Corporation, New York, N. Y. Iron and steel welding-wire, high-speed, &c., steel. No. 126,985; Oct. 21; v. 267; p. 477.
- Apparel Manufacturing Company, Chicago, Ill. Men's and boys' athletic union-suits. No. 125,952; July 22; v. 264; p. 695.
- Arbeka Webbing Company, Boston, Mass. Certain named fancy goods, &c. No. 125,382; May 20; v. 262; p. 473.
- Arbeter & Richman, St. Louis, Mo. Overalls, work-pants, and jumpers. No. 124,919; Mar. 25; v. 260; p. 729.
- Arbuckle Brothers, New York, N. Y. Coffee, tea, &c. No. 127,313; Nov. 11; v. 268; p. 369.
- Arbutus Beverage Co., Iron Mountain, Mich. Certain named non-alcoholic non-intoxicating beverages. No. 125,323; May 13; v. 262; p. 309.
- Architectural Service Corporation, Philadelphia, Pa. Loose-leaf sheets containing certain data used in building. No. 126,378; Aug. 26; v. 265; p. 627.
- Arco Company, The, Cleveland, Ohio. Paints and varnishes. No. 124,361; Feb. 11; v. 259; p. 379.
- Arcwell Corporation, New York, N. Y. Electrical-arc welders. No. 124,282; Feb. 4; v. 259; p. 177.
- Arkell & Douglas, Inc., New York, N. Y. Snap-fasteners. No. 124,075; Jan. 14; v. 258; p. 443.
- Arkwright Manufacturing Company, New York, N. Y. Cotton piece goods and silk piece goods. No. 128,218; Dec. 23; v. 269; p. 701.
- Armand Company, The, Des Moines, Iowa. Toilet soaps. No. 125,120; Apr. 15; v. 261; p. 625.
- Armstrong Cork Company, Pittsburgh, Pa. Publications issued bimonthly. No. 125,953; July 22; v. 264; p. 695.
- Armstrong Cork Company, Pittsburgh, Pa. Composition soles for boots and shoes. No. 125,954; July 22; v. 264; p. 695.
- Armstrong Cork Company, Pittsburgh, Pa. Composition material containing cork for making soles for boots and shoes. No. 127,314; Nov. 11; v. 268; p. 369.
- Armstrong Cork Company, Pittsburgh, Pa. Floor-tiling. No. 128,219; Dec. 23; v. 269; p. 701.
- Armstrong, Julian, Evanston, Ill. Wire fencing. No. 126,631; Sept. 30; v. 266; p. 733.
- Arnheim, Walter, Pittsburgh, Pa. Cigars, cheroots, stogies, little cigars, cigarettes. No. 126,126; July 29; v. 264; p. 859.
- Arnold, Francis R., New York, N. Y. Powder pads and puffs. No. 127,315; Nov. 11; v. 268; p. 369.
- Arrowhead Mills, Inc., Fulton, N. Y. Writing, news-print, and wrapping paper. No. 126,632; Sept. 30; v. 266; p. 733.
- Arthur Balfour & Company Limited, Sheffield, England. Steel in the forms of rods, sheets, wire, &c. No. 124,661; Mar. 11; v. 260; p. 385.
- Arthur Beir & Co. Inc., New York, N. Y. Silk piece goods. No. 128,003; Dec. 23; v. 269; p. 695.
- Arthur N. Christy & Co., Newark, N. Y. Egg substitute. No. 125,864; June 24; v. 263; p. 631.
- Arthur Siegmán, Inc., New York, N. Y. Ladies' and gentlemen's cravats. No. 125,762; June 10; v. 263; p. 328.
- Ashford Underwear Co., Limited, The, Ashford, England. Certain named clothing. No. 126,379; Aug. 26; v. 265; p. 627.
- Ashland Fire Brick Company, Ashland, Ky. Fire-brick. Nos. 125,121-2; Apr. 15; v. 261; p. 625.
- Ashwell, Davis & Co. Inc., New York, N. Y. Weekly magazine. No. 127,807; Dec. 9; v. 269; p. 387.
- Aspitone Co., Atlanta, Ga. Medicinal tablet. No. 124,362; Feb. 11; v. 259; p. 379.
- Associated Architects Printing and Supply Company, Boston, Mass. Prints. No. 124,076; Jan. 14; v. 258; p. 443.
- Associated Industries of Japan, Limited, Vancouver, British Columbia, Canada. Watch-glasses. No. 125,383; May 20; v. 262; p. 473.
- Associated Manufacturers Company, Waterloo, Iowa. Internal-combustion engines and cream-separating machines. No. 127,316; Nov. 11; v. 268; p. 369.
- Associated Pharmacists, Inc., New York, N. Y. Talcum powder. No. 125,955; July 22; v. 264; p. 695.
- Atkinson, Harry H., Boston, Mass. Chemicals, medicines, &c. No. 127,711; Dec. 2; v. 269; p. 185.
- Atkinson and Utech, Inc., New York, N. Y. Steel bars and billets. Nos. 126,509-11; Sept. 16; v. 266; p. 445.
- Atlantic Insulated Wire & Cable Company, Jersey City, N. J., and Stamford, Conn. Insulated wire. No. 124,187; Jan. 21; v. 258; p. 641.
- Atlantic Insulated Wire & Cable Company, Jersey City, N. J., and New York, N. Y. Insulated wire. No. 125,016; Apr. 8; v. 261; p. 405.
- Atlantic Mills, Providence, R. I. Woolen piece goods. Nos. 128,130-1; Dec. 23; v. 269; p. 699.
- Atlantic Refining Company, The, Philadelphia, Pa. Certain named oils and greases. Nos. 124,920-1; Mar. 25; v. 260; p. 729.
- Atlantic Seed Company, Inc., The, Philadelphia, Pa. Field-seeds. No. 125,606; June 3; v. 263; p. 161.
- Atlas Beverage Company, Chicago, Ill. Non-intoxicating cereal maltless beverage. No. 124,499; Feb. 25; v. 259; p. 771.
- Atlas Crucible Steel Company, Dunkirk, N. Y. Monthly publication. No. 126,986; Oct. 21; v. 267; p. 477.
- Atlas Publishing Co., Inc., New York, N. Y. Trade journal published weekly. No. 125,284; May 6; v. 262; p. 165.



- Atlas Valve Company, Newark, N. J. Reducing and float valves, unions, &c. No. 127,898; Dec. 16; v. 269; p. 541.
- Atomite Products Company. (See Olson, Hans M., assignor.)
- Atrebla Medical Company, Watertown, N. Y. Medicinal preparations for the liver and blood. No. 125,324; May 13; v. 262; p. 309.
- Atterley Company, Chicago, Ill. Powder-puffs. No. 126,380; Aug. 26; v. 265; p. 627.
- Auer & Twitchell, Inc., Dover, Del., and Philadelphia, Pa. Writing, printing, &c., paper. No. 125,700; June 3; v. 263; p. 164.
- Auerbach & Sons, D., New York, N. Y. Candy. No. 124,658; Mar. 11; v. 260; p. 385.
- Augusta Ice & Beverage Company, Augusta, Ga. Non-intoxicating hop and cereal malt beverages. No. 127,578; Nov. 18; v. 268; p. 557.
- Augustine & Kyer, Seattle, Wash. Lard. No. 125,607; June 3; v. 263; p. 161.
- Aurora Corset Company, Aurora, Ill. Corsets. No. 125,384; May 20; v. 262; p. 473.
- Austin, Maggie L., Nebo, N. C. Preparation for treatment of certain named diseases. No. 126,381; Aug. 26; v. 265; p. 627.
- Austin, Nichols & Co., Inc., Brooklyn and New York, N. Y. Certain named foods. No. 124,922; Mar. 25; v. 260; p. 729.
- Austin, Nichols & Co., Inc., Brooklyn and New York, N. Y. Certain named foods. No. 125,893; July 8; v. 264; p. 349.
- Auto Components Inc., Chicago, Ill. Timers for internal-combustion engines. No. 126,512; Sept. 16; v. 266; p. 445.
- Auto Components Inc., Chicago, Ill. Timers for internal-combustion engines. No. 127,012; Oct. 21; v. 267; p. 478.
- Auto-Ordnance Corporation, New York, N. Y. Pistols, rifles, machine, submarine, and naval guns and magazines, and bayonets. No. 128,002; Dec. 23; v. 269; p. 695.
- Auto-Ped Company of America, Long Island City, N. Y. Self-propelled bicycles and tricycles. No. 125,385; May 20; v. 262; p. 473.
- Automatic Electrical Devices Company, Cincinnati, Ohio. Ampere-hour meters. No. 124,283; Feb. 4; v. 259; p. 177.
- Automobile Accessories Co., Baltimore, Md. Piston-rings. No. 126,513; Sept. 16; v. 266; p. 445.
- Automotive Parts Company, Indianapolis, Ind. Fans for cooling the engines of automobiles, &c. No. 128,001; Dec. 23; v. 269; p. 695.
- Automotive Specialties Co., Inc., assignor to Grundy Mfg. Corporation, New York, N. Y. Piston-rings. No. 125,325; May 13; v. 262; p. 309.
- Autosales Corporation of Detroit, Detroit, Mich. Air-purifiers. No. 127,317; Nov. 11; v. 268; p. 369.
- Auwerter, Fred, Rapid City, S. D. Preparation for the treatment of hog-cholera. No. 124,659; Mar. 11; v. 260; p. 385.
- Avalon Farms Company, Chicago, Ill. Tonic and conditioner for use in hogs only. No. 125,956; July 22; v. 264; p. 695.
- Averell, Albert J., Medford, Oreg. Fertilizing-cartridge. No. 125,386; May 20; v. 262; p. 473.
- Avri Chemical Company, Inc., Jersey City, N. J. Baby talc and toilet powder. No. 126,633; Sept. 30; v. 262; p. 733.
- B. Kronhalt & Company, Michigan City, Ind. Shirts, shirt-waists, jumpers, &c. No. 125,062; Apr. 8; v. 261; p. 406.
- B. Seaboldt Corporation, The, New York, N. Y. Standard measuring-wires for testing the precision of thread-gages. No. 127,501; Nov. 11; v. 268; p. 375.
- B. Shoninger Co., New Haven, Conn. Wood propeller-blades. No. 124,476; Feb. 18; v. 259; p. 572.
- B. B. & R. Knight, Providence, R. I. Cotton piece goods. Nos. 124,729-33; Mar. 11; v. 260; p. 387.
- B. F. Goodrich Company, The, New York, N. Y. Conveyor-belts of rubber reinforced with fabric. No. 124,711; Mar. 11; v. 260; p. 387.
- B. V. D. Company, The, New York, N. Y. Textile underwear. No. 125,268; Apr. 29; v. 261; p. 953.
- Babin, Luke B., White Castle, La. Moss for upholstering purposes. No. 126,590; Sept. 23; v. 266; p. 593.
- Baby's Boudoir, Inc., Portland, Oreg. Textile fabrics. No. 127,899; Dec. 16; v. 269; p. 541.
- Backstay Machine and Leather Co., The, Union City, Ind. Finishing welts or binding used in upholstering vehicle-bodies, furniture, &c. No. 124,949; Apr. 1; v. 261; p. 197.
- Baden, Ernest H. W., St. Joseph, Mo. Reinforcing-shapes for garments. No. 127,318; Nov. 11; v. 268; p. 369.
- Baguolo, Salvatore, Boston, Mass. Sprays and showers for bath-tubs. No. 126,917; Oct. 14; v. 267; p. 335.
- Baird & McGuire, Inc., Hothbrook, Mass. Cattle, sheep, and horse dips. No. 125,387; May 20; v. 262; p. 473.
- Baker Box Co., Worcester, Mass. Kindling and fire wood in bags or packages. No. 124,500; Feb. 25; v. 259; p. 771.
- Baker and Company, Incorporated, Newark, N. J. Solder for precious metals. No. 126,987; Oct. 21; v. 267; p. 477.
- Balduff, W. S., Omaha, Nebr. Chocolate candies. No. 126,988; Oct. 21; v. 267; p. 477.
- Baldwin Perfumery Company, Chicago, Ill. Perfumery, toilet-water, sachet-powder. No. 125,928; July 15; v. 264; p. 531.
- Baldwin Perfumery Company, The, Chicago, Ill. Complexion-soap. No. 127,319; Nov. 11; v. 268; p. 369.
- Ball, George S., Dayton, Ohio. Candy. No. 125,326; May 13; v. 262; p. 309.
- Ball, William J., Portland, Oreg. Ladies' shirt-waists. No. 125,388; May 20; v. 262; p. 473.
- Baltimore Pearl Hony Company, Baltimore, Md. Corn flakes. No. 126,989; Oct. 21; v. 267; p. 477.
- Balzer, William, New York, N. Y. Antiseptic hair-dressing. No. 124,077; Jan. 14; v. 258; p. 443.
- Bandman, Albert, New York, N. Y. Dental and hypodermic syringes and metallic washers for the same. No. 125,557; May 27; v. 262; p. 643.
- Banks, Eula, St. Louis, Mo. Certain pharmaceutical preparations for toilet use. No. 125,389; May 20; v. 262; p. 473.
- Bar-Ben Laboratory Co., Cleveland, Ohio, assignor to Cleveland and Sandusky Brewing Company. Non-alcoholic beverages. No. 126,918; Oct. 14; v. 267; p. 335.
- Barbee Wire & Iron Works, Chicago, Ill. Wire fencing, gauze, netting, &c. No. 125,390; May 20; v. 262; p. 473.
- Barber, Hiram S., Detroit, Mich. Cedar shingles. No. 126,919; Oct. 14; v. 267; p. 335.
- Barbour Brothers Co., The, Paterson, N. J. Linen thread. No. 127,320; Nov. 11; v. 268; p. 369.
- Barclay & Co., Wilmington, Del., and New York, N. Y. Dentifrice. No. 125,187; Apr. 22; v. 261; p. 795.
- Barker Baking Company, Denver, Colo. Bread. No. 127,713; Dec. 2; v. 269; p. 185.
- Barler, Eugene M., Houston, Tex. Silhouette-making devices. No. 124,078; Jan. 14; v. 258; p. 443.
- Barlow Chemical Company, Shawnee, Okla. Preparation for scalp-tonic, menthol cream, hair-tonic, mange remedy. No. 125,123; Apr. 15; v. 261; p. 265.
- Barlow Chemical Company, Shawnee, Okla. Preparation for eczema, ointment for skin diseases, blood-tonic. No. 125,391; May 20; v. 262; p. 473.
- Barnett, Warren W., Phoenix, Ariz. Ointments for sores, burns, and skin trouble generally. No. 127,321; Nov. 11; v. 268; p. 369.
- Barrett Company, The, New York, N. Y. Certain named parts of shoes. No. 124,218; Jan. 28; v. 258; p. 809.
- Barrett Company, The, New York, N. Y. Felt roofing and sheathing, building-paper. No. 124,501; Feb. 25; v. 259; p. 771.
- Barrett and Company, Incorporated, Penn Yan, N. Y. Beverages. No. 124,841; Mar. 18; v. 260; p. 556.
- Barthels Manufacturing Company, Glendale, N. Y. Braids. No. 128,004; Dec. 23; v. 269; p. 695.
- Barton Salt Co., Hutchinson, Kans. Table-salt. No. 125,188; Apr. 22; v. 261; p. 795.
- Basic Products Corporation, New York, N. Y. Solidified alcohol. No. 127,580; Nov. 18; v. 268; p. 557.
- Bates Manufacturing Company, Lewiston, Me. Cotton piece goods. No. 125,958; July 22; v. 264; p. 695.
- Bates Street Shirt-Company, Lewiston, Me. Men's over and under shirts, underdrawers, and night-ropes. No. 126,634; Sept. 30; v. 266; p. 733.
- Batterman Truitt Company, Chicago, Ill. Electrically-operated fans, motors, and blowers. No. 125,608; June 3; v. 263; p. 161.
- Bauman, Abraham, New York, N. Y. Men's, boys', and children's outer wearing-apparel. No. 125,959; July 22; v. 264; p. 695.
- Bausch Machine Tool Company, Springfield, Mass. Certain named machinery and tools and parts thereof. No. 125,960; July 22; v. 264; p. 695.
- Bayer Company, Inc., The, New York, N. Y. Analgesic tonic. No. 126,635; Sept. 30; v. 266; p. 733.
- Bayer Company, Inc., The, New York, N. Y. Antirheumatic, analgesic, and antipyretic. Nos. 126,636-8; Sept. 30; v. 266; p. 733.
- Bayer Company, Inc., The, New York, N. Y. Antirheumatic, analgesic, and antipyretic. No. 126,812; Sept. 30; v. 266; p. 739.
- Bayley Manufacturing Company, Milwaukee, Wis. Steam generators and radiators, centrifugal fans, &c. No. 127,581; Nov. 18; v. 268; p. 557.
- Beach, Jerry, Newark, N. J. Candy. No. 128,221; Dec. 30; v. 269; p. 581.
- Beacon Chocolate Company, Boston, Mass. Chocolate, cocoa, bromo, and candies. Nos. 124,364-6; Feb. 11; v. 259; p. 379.
- Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Rubber boots, shoes, overshoes, &c. No. 124,219; Jan. 28; v. 258; p. 809.
- Beatty, Peter A., New Orleans, La. Night-tapers. No. 125,717; June 10; v. 263; p. 327.
- Beauchamp, Virgil L., Evanston, Ill. Preparation for cleansing the hair. No. 127,714; Dec. 2; v. 269; p. 185.
- Beaux Arts Corset Compagnie, Newark, N. J. Corsets. No. 127,323; Nov. 11; v. 268; p. 369.
- Beaver Leather Manufacturing Co., Newark, N. J. Chrome-tanned shoe-leather. No. 127,324; Nov. 11; v. 268; p. 369.



*Alphabetical list of registrants of trade-marks—Continued.*

- Becker Bros. Inc., San Francisco, Los Angeles, and San Diego, Cal. Non-alcoholic beverage. No. 124,662; Mar. 11; v. 260; p. 385.
- Becker, Smith & Page, Inc., Philadelphia, Pa. Wall-paper. No. 125,392; May 20; v. 262; p. 473.
- Becker Steel Co. of America, Charleston, W. Va. High-speed tool-steel. No. 126,127; July 29; v. 264; p. 859.
- Beckman Company, Cleveland, Ohio. Bed-blankets. No. 127,900; Dec. 16; v. 269; p. 541.
- Beekman Paper and Card Company, Inc., New York, N. Y. Writing and printing papers. No. 124,663; Mar. 11; v. 260; p. 385.
- Beitenman, W. W. Preparation for treatment of tan, sunburn, freckles, &c. No. 125,929; July 15; v. 264; p. 531.
- Bejeau, Etienne, Paris, France. Preparation for treatment of gout and rheumatism. No. 127,326; Nov. 11; v. 268; p. 369.
- Belanger, Severen, Provemont, Mich. Non-alcoholic non-cereal beverage. No. 126,639; Sept. 30; v. 266; p. 733.
- Beldam Packing & Rubber Company Limited, The, London, England. Packing made up of composite materials. No. 126,128; July 29; v. 264; p. 859.
- Bell, Arthur K., Perth, Scotland. Scotch whisky. No. 125,393; May 20; v. 262; p. 473.
- Bell & Co., Inc., Orangeburg, N. Y. Medicinal remedy for treatment of indigestion. No. 126,920; Oct. 14; v. 267; p. 335.
- Bell 2 in 1 Tyre Co., Inc., Richmond, Va. Retreaded rubber and fabric tires. No. 125,019; Apr. 8; v. 261; p. 405.
- Bellak, Charles E., Philadelphia, Pa. Pianos and player-pianos. No. 125,394; May 20; v. 262; p. 473.
- Bemis Bro. Bag Co., St. Louis, Mo. Parcel-post mailing-envelopes. No. 126,640; Sept. 30; v. 266; p. 733.
- Ben Wiener & Co., New York, N. Y. Boys', young men's, &c., overcoats and outer suits. No. 127,550; Nov. 11; v. 268; p. 376.
- Bence Exporting & Importing Co., Inc., New York, N. Y. Canned condensed milk. No. 125,961; July 22; v. 264; p. 695.
- Benjamin Electric Manufacturing Company, Chicago, Ill. Wireless plural receptacles, cluster-bodies, reflector-sockets, &c. No. 125,962; July 22; v. 264; p. 695.
- Benke, Ludwig J., Taylorville, Ill. Gasoline intensifier and vigorizer. No. 124,502; Feb. 25; v. 259; p. 771.
- Bennett Mfg. Co., Burns, Oreg. Medicinal preparation for asthma, bronchial troubles, &c. No. 126,641; Sept. 30; v. 266; p. 733.
- Berdan Company. (See Berdan and Company, assignor.)
- Berdan and Company, assignor to Berdan Company, Toledo, Ohio. Tea, coffee, rice. No. 124,812; Mar. 18; v. 260; p. 555.
- Berger, L. D., Philadelphia, Pa. Adjustable elbows for stovepipes and flues. No. 127,327; Nov. 11; v. 268; p. 369.
- Berger Manufacturing Company, Canton, Ohio. Black and galvanized steel. No. 125,963; July 22; v. 264; p. 695.
- Berger Manufacturing Company, The, Canton, Ohio. Black and galvanized steel. No. 126,129; July 29; v. 264; p. 859.
- Berger Manufacturing Company, The, Canton, Ohio. Steel office equipment and furniture. No. 126,130; July 29; v. 264; p. 859.
- Bergfors, Gustav A., Braintree, Mass. Certain named oils and greases. No. 124,285; Feb. 4; v. 259; p. 177.
- Berkley, Susie A., Clarksdale, Miss. Preparation for the hair for use as a tonic and pomade. No. 124,950; Apr. 1; v. 261; p. 197.
- Berkowitz, Herman. (See Berkowitz and Lobel, assignors.)
- Berkowitz & Lobel, assignors to H. Berkowitz, New York, N. Y. Suspenders. Nos. 125,887-8; July 1; v. 264; p. 153.
- Berkshire Lumber Company, Pittsfield, Mass. Buildings, both ready cut and portable. No. 128,005; Dec. 23; v. 269; p. 695.
- Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Self-rising wheat-flour. No. 128,222; Dec. 30; v. 269; p. 881.
- Bernhard Ulmann Co., Inc., New York, N. Y. Worsted, woolen, cotton, silk, and artificial-silk yarns. No. 124,268; Jan. 28; v. 258; p. 810.
- Bernhard Ulmann Co., Inc., New York, N. Y. Outer garments for women and children. No. 124,269; Jan. 28; v. 258; p. 811.
- Bernhard Ulmann Co., Inc., New York, N. Y. Hats for women and children. No. 124,270; Jan. 28; v. 258; p. 811.
- Bernsteen, David, Cleveland, Ohio. Metal-cleanser. No. 125,964; July 22; v. 264; p. 695.
- Bernsteen, David, Cleveland, Ohio. Plastic roofing-cement. No. 128,006; Dec. 23; v. 269; p. 695.
- Bernstein Manufacturing Company, Philadelphia, Pa. Bedsteads, mattresses, pillows. No. 126,991; Oct. 21; v. 267; p. 477.
- Bernstein Manufacturing Company, Philadelphia, Pa. Bedsteads. No. 128,223; Dec. 30; v. 269; p. 881.
- Berry, Andrew H., New York, N. Y. Dry batteries. No. 127,328; Nov. 11; v. 268; p. 369.
- Bert L. White Company, Chicago, Ill. Advertising letters, circulars, leaflets. No. 124,177; Jan. 14; v. 258; p. 446.
- Bertex Distributing Co., Inc., New York, N. Y. Ladies' and gentlemen's suits and furnishings. No. 127,329; Nov. 11; v. 268; p. 369.
- Berthe May, Inc., New York, N. Y. Corsets. No. 126,878; Oct. 7; v. 267; p. 179.
- Beshgeturian, Puzant, Cambridge, Mass. Massaging instruments. No. 125,609; June 3; v. 263; p. 161.
- Bessemer, Harry, New York, N. Y. Storage-battery-charging compounds. No. 127,811; Dec. 9; v. 269; p. 387.
- Beugel, Albert, Harvey, Ill. Pill for pulmonary tuberculosis. No. 125,020; Apr. 8; v. 261; p. 405.
- Bianchi, Arthur, Washington, D. C. Hair switches, wigs, and false-hair trimmings. No. 124,664; Mar. 11; v. 260; p. 385.
- Bicarbon Co., Wilmington, Del. Salve for boils, &c. No. 127,808; Dec. 9; v. 269; p. 387.
- Bickmore Company, Oldtown, Me. Ointment for eczema, sunburn, cuts, &c. No. 124,665; Mar. 11; v. 260; p. 385.
- Bienemann, William J., El Paso, Tex. Polish for furniture, &c. No. 128,007; Dec. 23; v. 269; p. 695.
- Big Four Canning Company, Stanley and Eau Claire, Wis. Canned peas and sauer-kraut. No. 125,021; Apr. 8; v. 261; p. 405.
- Bio-Pharm Chemical Company, The, Denver, Colo. Lozenges for throat irritations and ointments, &c. No. 127,715; Dec. 2; v. 269; p. 185.
- Birks, John B., Harrow, England. Powders for making jackets. No. 126,992; Oct. 21; v. 267; p. 477.
- Bishop & Babcock Company, Cleveland, Ohio. Return-line traps, air-valves, &c. for steam-heating systems. No. 127,330; Nov. 11; v. 268; p. 369.
- Bitrose Company, Milwaukee, Wis. Candies, nuts, nut-candies. No. 125,189; Apr. 22; v. 261; p. 795.
- Blackburn Products Co., The, Dayton, Ohio. Medicinal tonic. No. 126,246; Aug. 19; v. 265; p. 451.
- Blackburn Products Co., The, Dayton, Ohio. Laxative tonic. No. 126,247; Aug. 19; v. 265; p. 451.
- Blackman, Maurice R., Philadelphia, Pa. Non-alcoholic grape-juice. No. 126,248; Aug. 19; v. 265; p. 451.
- Blanton, David A., St. Louis, Mo. Oleomargarin. No. 125,265; Apr. 29; v. 261; p. 953.
- Blanton Rubber and Manufacturing Co., Oklahoma, Okla. Rubber-back patch for punctures and blow-outs in pneumatic tires, &c. No. 128,009; Dec. 23; v. 269; p. 695.
- Blaskopf & Co., New York, N. Y. Shirt-waists and blouses. No. 127,331; Nov. 11; v. 268; p. 369.
- Blatchford Calf Meal Company, Waukegan, Ill. Compounded ground feed. No. 124,951; Apr. 1; v. 261; p. 197.
- Blecker, William R., Albany, N. Y. Lubricating oils and greases. No. 125,965; July 22; v. 264; p. 695.
- Blewett, Francis H., Somerville, Mass. Bread. No. 127,332; Nov. 11; v. 268; p. 369.
- Block, Alexander E., St. Louis, Mo. Supports for the longitudinal arch of the foot. No. 127,901; Dec. 16; v. 269; p. 541.
- Block, Gaston J., New York, N. Y. Perfumery. No. 126,642; Sept. 30; v. 266; p. 733.
- Block, Louis A., New Orleans, La. Polishing and cleaning liquid for certain named surfaces. No. 126,249; Aug. 19; v. 265; p. 451.
- Blount Plow Works, Evansville, Ind. Plows, cultivators, disk harrows, &c. No. 125,190; Apr. 22; v. 261; p. 795.
- Blomster and Schaben, Algona, Iowa. Spark-plugs. No. 125,612; June 3; v. 263; p. 161.
- Blosveren, Moss, New York, N. Y. Certain named foot-cover. No. 125,395; May 20; v. 262; p. 473.
- Board of Control of the Colorado Industrial Workshop for the Blind, The, Denver, Colo. Brooms. No. 125,191; Apr. 22; v. 261; p. 795.
- Bobrow Bros., Philadelphia, Pa. Cigars. No. 124,666; Mar. 11; v. 260; p. 385.
- Book, Charlotte E., Mineral Wells, Tex. Toy well-houses. No. 127,335; Nov. 11; v. 268; p. 370.
- Boddington, Henry D., Los Angeles, Calif. Substitute for eggs and baking-powder. No. 125,966; July 22; v. 264; p. 695.
- Boddington, Henry D., Los Angeles, Calif. Preparation for making custards. No. 126,921; Oct. 14; v. 267; p. 335.
- Boddington, Henry D., Los Angeles, Calif. Foods. No. 126,996; Oct. 21; v. 267; p. 477.
- Boeker, Herman, New York, N. Y. Reconstructive tonic. No. 126,643; Sept. 30; v. 266; p. 733.
- Bogalusa Paper Company, Inc., Bogalusa, La. Paper for container-liner. No. 125,894; July 8; v. 264; p. 349.
- Bohrow Bros., Philadelphia, Pa. Cigars. No. 124,220; Jan. 28; v. 258; p. 809.
- Bolgiano, Charles J., Baltimore, Md. Live poultry fresh from the shell. No. 127,175; Oct. 21; v. 267; p. 483.
- Bona, Adriano, New York, N. Y. Dandruff-destroyer and hair-grower. No. 125,967; July 22; v. 264; p. 695.
- Bonner, James J., Boston, Mass. Disinfectant. No. 126,388; Aug. 26; v. 265; p. 627.



- Bonney Floyd Company, Columbus, Ohio. Mine or pit cars and the wheels and couplers for same. No. 125,610; June 3; v. 263; p. 161.
- Bonney Vise & Tool Works, Inc., Philadelphia and Allentown, Pa., and New York, N. Y. Certain named cutlery, &c. No. 126,250; Aug. 19; v. 265; p. 451.
- Bonte, George W., New York, N. Y. Toy figures. No. 127,904; Dec. 16; v. 269; p. 541.
- Bonwit, Carl, New York, N. Y. Outer skirts and dresses. No. 127,336; Nov. 11; v. 268; p. 370.
- Booth, Carlos C., Youngstown, Ohio. Antiseptic and germicide. No. 126,389; Aug. 26; v. 265; p. 627.
- Booth Fisheries Co., Chicago, Ill. Canned sardines. Nos. 126,251-3; Aug. 19; v. 265; p. 451.
- Booth Fisheries Co., Chicago, Ill. Canned sardines. No. 126,644; Sept. 30; v. 266; p. 733.
- Booth Fisheries Company, Chicago, Ill., and Eastport, Me. Canned sardines. No. 124,667; Mar. 11; v. 260; p. 385.
- Booth Fisheries Company, Chicago, Ill. Canned sardines and salmon. No. 128,017; Dec. 23; v. 269; p. 695.
- Booth Fisheries Sardine Co., Chicago, Ill., and Eastport, Me. Canned sardines. Nos. 124,437-9; Feb. 18; v. 259; p. 571.
- Booth Fisheries Sardine Co., Chicago, Ill., and Eastport, Me. Canned sardines in tomato sauce. No. 124,813; Mar. 18; v. 260; p. 555.
- Booth Fisheries Sardine Company, Chicago, Ill. Canned sardines. No. 125,968; July 22; v. 264; p. 695.
- Boott Mills, Lowell, Mass. Cotton crash toweling and towels. No. 126,184; July 29; v. 264; p. 861.
- Boott Mills, Lowell, Mass. Cotton drills. No. 126,185; July 29; v. 264; p. 861.
- Boott Mills, Lowell, Mass. Cotton piece goods. No. 126,514; Sept. 16; v. 266; p. 445.
- Boott Mills, Lowell, Mass. Cotton drills. No. 128,132; Dec. 23; v. 269; p. 699.
- Boquette, Millard F., Council Bluffs, Iowa. Preparation for the treatment of chills, fever, rheumatism, &c. No. 126,997; Oct. 21; v. 267; p. 477.
- Borden's Condensed Milk Company, New York, N. Y. Dried or desiccated milk. No. 125,022; Apr. 8; v. 261; p. 405.
- Borden's Condensed Milk Company, New York, N. Y. Chocolate coatings as applied to confectionery. No. 125,718; June 10; v. 263; p. 327.
- Borden's Condensed Milk Company, New York, N. Y. Condensed milk. No. 128,224; Dec. 30; v. 269; p. 881.
- Borden's Farm Products Company, Inc., Wassaic and New York, N. Y. Butter. No. 124,952; Apr. 1; v. 261; p. 197.
- Bosselman, Rudolph L., New York, N. Y. Fireproof garments, smocks, coats, outer shirts, and trousers. No. 128,016; Dec. 23; v. 269; p. 695.
- Boston-Okanogan Apple Co., Okanogan, Wash., and Boston, Mass. Apples. No. 127,716; Dec. 2; v. 269; p. 185.
- Boston Woven Hose & Rubber Co., Cambridge, Mass. Rubber belting. No. 126,132; July 29; v. 264; p. 859.
- Bourazanis, John, Pittsburgh, Pa. Pharmaceutical preparation for general debility, &c. No. 125,719; June 10; v. 263; p. 327.
- Bourazanis, John, Pittsburgh, Pa. Medicinal tonic for the nervous system, &c. No. 125,720; June 10; v. 263; p. 327.
- Bowen Inc., Boston, Mass. Roofing-cement and concrete-hardener applied superficially to finished work. No. 124,503; Feb. 25; v. 259; p. 771.
- Bowen, Stephen T., Chicago, Ill. Liquid polish for furniture, &c. No. 126,256; Aug. 19; v. 265; p. 451.
- Boyce, Sidney S., Saginaw, Mich. Textile fibers in the nature of silk or vegetable fibers. No. 124,154; Jan. 14; v. 258; p. 445.
- Boyden, Charles, Los Angeles, Calif. Percentage-calculating instruments. No. 127,813; Dec. 9; v. 269; p. 387.
- Boydston, C. D., Porterville, Calif. Fresh oranges. Nos. 125,931-2; July 15; v. 264; p. 531.
- Boye Needle Company, The, Chicago, Ill. Crochet-needles for hand use. No. 125,895; July 8; v. 264; p. 349.
- Bradley & Metcalf Company, Milwaukee, Wis. Men's leather shoes. No. 124,221; Jan. 28; v. 258; p. 809.
- Bradley & Vrooman Company, Chicago, Ill. Dry, paste, and ready-mixed paints. No. 124,367; Feb. 11; v. 259; p. 379.
- Brady, John F., Providence, R. I. Autographic registers. No. 125,396; May 20; v. 262; p. 473.
- Brandl, Josef, New York, N. Y. Medicine used for indigestion, as a blood-purifier, &c. No. 124,504; Feb. 25; v. 259; p. 771.
- Bratton, Alvin A., Columbus, Ohio. Booklets or lessons issued from time to time. No. 125,124; Apr. 15; v. 261; p. 265.
- Bratton, Alvin A., Columbus, Ohio. Articles appearing in bulletins or lessons. No. 125,969; July 22; v. 264; p. 695.
- Breier, Benjamin, New York, N. Y. Men's and boys' work-shirts. No. 125,266; Apr. 29; v. 261; p. 953.
- Breier, Benjamin, New York, N. Y. Certain named clothing. No. 125,397; May 20; v. 262; p. 473.
- Breimeyer, Henry C., St. Louis, Mo. Non-alcoholic non-cereal maltless beverages sold as soft drinks. No. 127,814; Dec. 9; v. 269; p. 387.
- Brewer & Company, Inc., Worcester, Mass. Certain named chemicals, medicines, &c. No. 124,289; Feb. 4; v. 259; p. 177.
- Brewer, John H., Louisville, Ky. Flag-covers. No. 124,505; Feb. 25; v. 259; p. 771.
- Brewer-Titchener Corporation, Cortland, N. Y. Bow-sockets, curtain-lights, body-plates, &c. No. 127,337; Nov. 11; v. 268; p. 370.
- Brewster & Co., Long Island City and New York, N. Y. Pleasure-vehicles. No. 124,668; Mar. 11; v. 260; p. 385.
- Brick, Samuel E., Salina, Kans. Adhesive paste. No. 125,777; June 17; v. 263; p. 477.
- Bridier, A., Pratt City, Ala. Preparation for rheumatism. No. 125,192; Apr. 22; v. 261; p. 795.
- Brier Hill Steel Company, Youngstown, Ohio. Pig-iron. No. 126,998; Oct. 21; v. 267; p. 477.
- Briggs Bituminous Composition Co., New York, N. Y. Bituminous compositions. No. 124,814; Mar. 18; v. 260; p. 555.
- Briggs Bituminous Composition Company, New York, N. Y. Enamel. No. 125,193; Apr. 22; v. 261; p. 795.
- Brill Brothers, New York, N. Y. Tweeds. No. 128,018; Dec. 23; v. 269; p. 695.
- Brisbane, Arthur, Washington, D. C. Newspapers. No. 127,905; Dec. 16; v. 269; p. 541.
- Bristol Lace and Braid Company, Fall River, Mass. Shoelaces. No. 124,368; Feb. 11; v. 259; p. 379.
- Bristol Machine Tool Co., The, Bristol, Conn. Metal-working milling and grinding machines. No. 125,398; May 20; v. 262; p. 473.
- British Mannesmann Tube Company Ltd., London, England. Electric-light, &c., poles, pit-props, semaphore-masts, trolley-booms. No. 124,080; Jan. 14; v. 258; p. 443.
- British Mannesmann Tube Company Ltd., London, England. Hollow spindles used in spinning or other machinery, boring rods and tubes, derricks. No. 124,290; Feb. 4; v. 259; p. 177.
- British Mannesmann Tube Company Ltd., The, London, England. Certain named vehicles. No. 124,815; Mar. 18; v. 260; p. 555.
- British Mannesmann Tube Company Ltd., The, London, England. Cylinders and bottles to contain liquid or elastic fluids under pressure. No. 124,816; Mar. 18; v. 260; p. 555.
- British Mannesmann Tube Company Ltd., The, London, England. Certain named hardware and plumbing and steam-fitting supplies. No. 124,954; Apr. 1; v. 261; p. 197.
- British Mannesmann Tube Company Ltd., The, London, England. Certain named tubes, posts, and poles. No. 125,023; Apr. 8; v. 261; p. 405.
- Broncho Co., The, Brooklyn, N. Y. Salve for certain named complaints. No. 125,558; May 27; v. 262; p. 643.
- Brookgate Remedies Co., Evansville, Ind. Medicinal salves. No. 127,718; Dec. 2; v. 269; p. 185.
- Brooklyn Automobile Company, Brooklyn, N. Y. Automobile-trucks. No. 125,613; June 3; v. 263; p. 161.
- Brooklyn Macaroni Mfg. Co. Inc., Brooklyn, N. Y. Macaroni. No. 124,817; Mar. 18; v. 260; p. 555.
- Broom & Duster Company, Lincoln, Nebr. Brooms. No. 128,102; Dec. 23; v. 269; p. 698.
- Brown, Alex., Astoria, N. Y. Cathartic pills or medicines for internal use. No. 126,645; Sept. 30; v. 266; p. 733.
- Brown, Charles W., Cleveland, Ohio. Medicinal salve for burns, wounds, piles, &c. No. 125,024; Apr. 8; v. 261; p. 405.
- Brown, Clark & Company, Brooklyn, N. Y. Chemical carbon-removers. No. 127,339; Nov. 11; v. 268; p. 370.
- Brown, Frank H., Pottstown, Pa. Enamel paints, &c. No. 128,020; Dec. 23; v. 269; p. 695.
- Brown & Gilbert Co., Fort Wayne, Ind. Contact-spray for trees. No. 124,506; Feb. 25; v. 259; p. 771.
- Brown, Herman R., Lewiston, Me. Tooth-powder and germicide for the treatment of the gums and teeth. No. 124,291; Feb. 4; v. 259; p. 177.
- Brown, Nelson H., Boston, Mass. Watches, clocks, and movements therefor. No. 126,922; Oct. 14; v. 267; p. 335.
- Brown Shoe Company, Inc., St. Louis, Mo. Children's shoes of leather. No. 125,267; Apr. 29; v. 261; p. 953.
- Brumby, Bolan G., Marietta, Ga. Hosiery. No. 128,021; Dec. 23; v. 269; p. 695.
- Brundage, Henry H., assignor to A. Miserez, New York, N. Y. Automobile and furniture polish. No. 125,778; June 17; v. 263; p. 477.
- Brunswick-Balke-Collider Company, Chicago, Ill. Billiard and pocket-billiard balls. No. 124,222; Jan. 28; v. 258; p. 809.
- Brunswick-Balke-Collider Company, The, Wilmington, Del., and Chicago, Ill. Rubber or rubber and fabric tires and tubes for vehicles. No. 125,025; Apr. 8; v. 261; p. 405.
- Bryant, A. H., New York, N. Y. Safety-razors. No. 125,971; July 22; v. 264; p. 695.
- Bryant Electric Company, Bridgeport, Conn. Electric-lamp receptacles, &c. No. 127,719; Dec. 2; v. 269; p. 185.
- Bryn Mawr Fruit-Growers Association, Bryn Mawr and Redlands, Calif. Fresh citrus fruits. No. 125,615; June 3; v. 263; p. 161.
- Buchbinder, Benjamin, New York, N. Y. Wall-papers. No. 126,646; Sept. 30; v. 266; p. 734.



## Alphabetical list of registrants of trade-marks—Continued.

- Buck, Arthur W., St. Louis, Mo. Packets of sensitized films for dental X-ray work. No. 126,999; Oct. 21; v. 267; p. 477.
- Buckeye Nurseries, Tampa, Winterhaven, Lucerne Park, and Howey, Fla. Trees. No. 127,340; Nov. 11; v. 268; p. 370.
- Buckley Macaroni Company, Inc., Kensington, Conn. Macaroni. No. 125,972; July 22; v. 264; p. 695.
- Buedingen, William J., New York, N. Y. Printed adhesive seals for sealing letters. No. 125,026; Apr. 8; v. 261; p. 405.
- Buffalo Awning & Tent Mfg. Co., Buffalo, N. Y. Awnings, tents, &c. No. 124,369; Feb. 11; v. 259; p. 379.
- Bukolt, John J., Stevens Point, Wis. Pedaling-cart on three wheels for boys. No. 127,000; Oct. 21; v. 267; p. 477.
- Bullard, Margaret G., Wheeling, W. Va. Hand-cleansing paste. No. 126,391; Aug. 26; v. 265; p. 627.
- Bump, Joseph, Anna, Ill. Non-alcoholic beverage and syrup for making the same. No. 127,583; Nov. 18; v. 268; p. 557.
- Bunting Brass & Bronze Co., Toledo, Ohio. Bronze bushings. No. 125,194; Apr. 22; v. 261; p. 795.
- Burdett Oxygen Company, The, Denver, Colo. Electrolytic oxygen. No. 125,399; May 20; v. 262; p. 473.
- Burdett Oxygen Company, The, Denver, Colo. Hydrogen and oxygen gas. No. 126,134; July 29; v. 264; p. 859.
- Burdett Oxygen Company, Denver, Colo. Welding and cutting torches. No. 126,591; Sept. 23; v. 266; p. 593.
- Burke, Frank G., New York, N. Y. Toilet soaps. No. 128,226; Dec. 30; v. 269; p. 881.
- Burkhardt Brewing Company, Boston and Roxbury, Mass. Maltless cereal beverage. No. 125,779; June 17; v. 263; p. 477.
- Burlington Blanket Company, Burlington, Wis. Insoles for footwear. No. 127,341; Nov. 11; v. 268; p. 370.
- Burlington Vinegar & Pickle Works, Burlington, Iowa. Sauce for meats, fish, salads, &c. No. 127,342; Nov. 11; v. 268; p. 370.
- Burnall Corporation, Chicago, Ill. Heating, lighting, &c., apparatus. No. 127,001; Oct. 21; v. 267; p. 477.
- Burns, Fecht, Bicknell Co., Boston, Mass. Finished kid. No. 126,592; Sept. 23; v. 266; p. 593.
- Burns, Wilbur S., Grand Rapids, Mich. Laundry soap. No. 124,669; Mar. 11; v. 260; p. 385.
- Burrell-Dugger Co., Indianapolis, Ind. Insecticide or preparation to kill lice. No. 126,647; Sept. 30; v. 266; p. 734.
- Burrell-Dugger Co., Indianapolis, Ind. Poultry tonic tablets. No. 127,002; Oct. 21; v. 267; p. 477.
- Burriss, Annie, Atlanta, Ga. Hair-grower. No. 127,003; Oct. 21; v. 267; p. 477.
- Burt, Harry B., Youngstown, Ohio. Candy. No. 126,923; Oct. 14; v. 267; p. 335.
- Burton Bros. & Co., New York, N. Y. Petticoats. No. 126,824; Oct. 7; v. 267; p. 177.
- Burton Bros. & Co., New York, N. Y. Cotton and cotton and silk piece goods. No. 128,022; Dec. 23; v. 269; p. 695.
- Burton, H. B., New York, N. Y. Salves for cuts, burns, &c. No. 125,559; May 27; v. 262; p. 643.
- Busch, August A., Jr., Sappington, Mo. Natural spring table-water. No. 126,392; Aug. 26; v. 265; p. 627.
- Busch, August A., Jr., Sappington, Mo. Natural spring table-water. Nos. 127,005-6; Oct. 21; v. 267; pp. 477-8.
- Busch, August A., St. Louis, Mo. Cereal syrup. No. 127,004; Oct. 21; v. 267; p. 477.
- Butler Brothers, Chicago, Ill. Hosiery. No. 125,285; May 6; v. 262; p. 165.
- Butler Brothers, Chicago, Ill. Certain named clothing. No. 125,900; May 20; v. 262; p. 473.
- Buzby, Augustus C., assignor to Keystone Lubricating Company, Philadelphia, Pa. Lubricants. No. 124,670; Mar. 11; v. 260; p. 385.
- Byers, Robert J., Seattle, Wash. Facial creams and lotions. No. 127,584; Nov. 18; v. 268; p. 557.
- Byington, Karl, Chicago, Ill. Hog medicines to be administered for worms, scours, and as tonics. No. 125,195; Apr. 22; v. 261; p. 795.
- Byron Weston Co., Dalton, Mass. Writing-paper. No. 125,896; July 8; v. 264; p. 349.
- C. A. Dunham Company, Marshalltown, Iowa. Steam-heating apparatus. No. 127,926; Dec. 16; v. 269; p. 541.
- C. A. Gambrill Manuf'g Company, Baltimore, Md. Self-rising pancake-flour. No. 125,872; June 24; v. 263; p. 631.
- C. A. Gambrill Manuf'g Company, Baltimore, Md. Self-rising buckwheat-flour. No. 126,284; Aug. 19; v. 265; p. 452.
- C. A. Spencer & Son Company, Boston, Mass. Liquid preparation or oil for stuffing and dressing leather. No. 124,155; Jan. 14; v. 258; p. 445.
- C. A. S. Engineering Co., Detroit, Mich. Automobile steering-gears. No. 124,699; Mar. 11; v. 260; p. 386.
- C. B. Hayward & Co., Inc., New York, N. Y. Cotton piece goods. Nos. 125,440-3; May 20; v. 262; p. 475.
- C. & C. Arch Relocating Shoe Co., Boston, Mass. Leather shoes. No. 126,822; Oct. 7; v. 267; p. 177.
- C. C. Menzel & Bro. Co., Incorporated, Louisville, Ky. Cocoa-beans for food purposes. No. 127,090; Oct. 21; v. 267; p. 480.
- C. & C. Mfg. Co., New York, N. Y. Men's, women's, and children's cotton and silk underwear. No. 127,343; Nov. 11; v. 268; p. 370.
- C. E. De Puy Company, The, Pontiac, Mich. Timothy seed. No. 125,039; Apr. 8; v. 261; p. 405.
- C. E. De Puy Company, The, Pontiac, Mich. Clover and alsike seed. No. 126,666; Sept. 30; v. 266; p. 734.
- C. & E. Marshall Company, The, Columbus, Ohio. Eye-glass mountings and frames. No. 125,238; Apr. 22; v. 261; p. 796.
- C. E. Slauson Co., Stamford, Conn. Canned vegetables. No. 127,788; Dec. 2; v. 269; p. 187.
- C. F. Blanke Tea & Coffee Co., St. Louis, Mo. Coffee, tea, spices. No. 126,993; Oct. 21; v. 267; p. 477.
- C. & J. Hampton, Limited, Sheffield, England. Vises. No. 125,437; May 20; v. 262; p. 474.
- C. L. Centlivre Brewing Co., Fort Wayne, Ind. Non-alcoholic maltless beverage sold as a soft drink. No. 125,780; June 17; v. 263; p. 477.
- C. M. Kimball Company, Winthrop, Mass. Silver, stove, and metal polishes. No. 127,564; Nov. 11; v. 268; p. 377.
- C. R. Cook Paint Company, Kansas City, Mo. Certain named paints and painters' materials. No. 126,265; Aug. 19; v. 265; p. 452.
- C. W. Beggs, Sons & Company, Chicago, Ill. Cosmetics. No. 127,809; Dec. 9; v. 269; p. 387.
- Cable Draper Baking Co., Detroit, Mich. Bread. No. 127,344; Nov. 11; v. 268; p. 370.
- Cagle, Matthew J., San Francisco, Cal. Self-vulcanizing tire-patches. No. 124,223; Jan. 28; v. 258; p. 809.
- California Evaporated Products Co., Los Angeles, Calif. Foods and ingredients of foods. No. 127,720; Dec. 2; v. 269; p. 185.
- California Fruit Exchange, Sacramento, Calif. Fresh peaches, plums, grapes. No. 124,818; Mar. 18; v. 260; p. 555.
- California Medicinal Springs Co., Deer Lick Springs, Calif. Natural medicinal water. No. 127,211; Oct. 28; v. 267; p. 643.
- California Packing Corporation, San Francisco, Cal. Baking-powder and salt. No. 124,081; Jan. 14; v. 258; p. 443.
- California Packing Corporation, San Francisco, Calif. Potato-flour. No. 124,819; Mar. 18; v. 260; p. 555.
- California Packing Corporation, San Francisco, Calif. Motion-picture films. No. 124,955; Apr. 1; v. 261; p. 197.
- California Packing Corporation, San Francisco, Calif. Canned fruits, vegetables, and fish. No. 128,023; Dec. 23; v. 269; p. 695.
- California Packing Corporation, San Francisco, Calif. Dried fruits and raisins. No. 128,227; Dec. 30; v. 269; p. 881.
- California Ripe Olive Co., San Francisco, Cal. Certain named foods. No. 124,508; Feb. 25; v. 259; p. 771.
- California Soap Company, Inc., Los Angeles, Cal. Soaps and washing-powders. No. 124,082; Jan. 14; v. 258; p. 443.
- California Vegetable Union, Los Angeles, Calif. Dry Bermuda onions. No. 126,393; Aug. 26; v. 265; p. 627.
- Calina Hair Restorative Company, Albany, N. Y. Hair-tonic preparation. No. 126,394; Aug. 26; v. 265; p. 627.
- Callaghan, Margaret J., Boston, Mass. Ointment for the scalp and hair. No. 127,345; Nov. 11; v. 268; p. 370.
- Caloids Company, Atlanta, Ga. Purgative liver-tablets. No. 125,722; June 10; v. 263; p. 327.
- Cameron, Will J., Chicago, Ill. Electric-light outfits for dentists, &c. No. 128,024; Dec. 23; v. 269; p. 695.
- Cammack, Jerry W., M. Halbman, and J. G. Hemmen, St. Louis, Mo. Toy railway-cars. No. 124,224; Jan. 28; v. 258; p. 801.
- Cammen, Leon, New York, N. Y. Rear-view mirrors. No. 127,265; Nov. 4; v. 268; p. 187.
- Cammeyer, New York, N. Y. Children's shoes. No. 124,225; Jan. 28; v. 258; p. 809.
- Camo Chemical Co., Laporte, Ind. Liquid compounds for certain named medicinal preparations. No. 124,671; Mar. 11; v. 260; p. 385.
- Camp, Samuel H., Jackson, Mich. Corsets. No. 126,825; Oct. 7; v. 267; p. 177.
- Campbell, Metzger & Jacobson, New York, N. Y. Cotton piece goods. No. 128,025; Dec. 23; v. 269; p. 695.
- Campe Corporation, New York, N. Y. Knitted underwear. No. 127,266; Nov. 4; v. 268; p. 187.
- Campe Corporation, The, New York, N. Y. Knitted underwear in one and two piece garments. No. 127,346; Nov. 11; v. 268; p. 370.
- Canada Witch Company Limited, Vancouver, British Columbia, Canada. Chemical soot-destroyers and chimney-cleaners. No. 124,371; Feb. 11; v. 259; p. 379.
- Canedy-Otto Mfg. Co., Chicago Heights, Ill. Portable blowers, drill, and punch presses, shears for hand and foot power. No. 127,347; Nov. 11; v. 268; p. 370.
- Cannon Mills, New York, N. Y. Hosiery for men, women, and children. No. 128,133; Dec. 23; v. 269; p. 699.
- Cannon, Robert B., Kansas City, Kans. Rubber patches for rubber goods. No. 128,026; Dec. 23; v. 269; p. 695.
- Capell, W. L., Omaha, Nebr. Chemical compound for testing urine. No. 126,648; Sept. 30; v. 266; p. 734.



- Caradonna, Philip, Philadelphia, Pa. Preparation for the treatment of certain named ailments. No. 125,125; Apr. 15; v. 261; p. 265.
- Caraleigh Mills Co., Caraleigh, near Raleigh, N. C. Cotton goods in the piece. No. 124,083; Jan. 14; v. 258; p. 443.
- Cardinal Mills, The, West Point, Miss. Cotton yarns. No. 124,672; Mar. 11; v. 260; p. 385.
- Carl, Malcolm L., New York, N. Y. Coal. No. 127,348; Nov. 11; v. 268; p. 370.
- Carling Turbine Blower Co., Worcester, Mass. Turbine-actuated blowers, turbine centrifugal blowers, and exhausters, &c. No. 127,349; Nov. 11; v. 268; p. 370.
- Carolene Company, The. (See Carroll, Thomas L., assignor.)
- Carpenter-Morton Co., Boston, Mass. Paints, stains, varnishes, finishes, lacquers, polishes. No. 126,649; Sept. 30; v. 266; p. 734.
- Carr Fastener Company, Cambridge, Mass. Snap-fasteners. No. 127,721; Dec. 2; v. 269; p. 185.
- Carr-Lowrey Glass Company, Baltimore and Westport, Md. Glass bottles. No. 124,188; Jan. 21; v. 258; p. 641.
- Carroll, Thomas L., Chicago, Ill., assignor, by mesne assignments, to Carolene Company. Compound of refined nut-oils and evaporated skimmed milk for use as a substitute for milk or cream. No. 126,651; Sept. 30; v. 266; p. 734.
- Carson-Newton Company, Newark, N. J. Calipers. No. 127,008; Oct. 21; v. 267; p. 478.
- Carson, Pirie, Scott & Co., Chicago, Ill. Children's and infants' apparel. No. 126,826; Oct. 7; v. 267; p. 177.
- Carter, Henry B., Pittsburgh, Pa. Electric vacuum-cleaners. No. 127,350; Nov. 11; v. 268; p. 370.
- Carter, Lillian, St. Louis, Mo. Liquid nail-polish. No. 126,895; Aug. 26; v. 265; p. 627.
- Cary, Jas. R., Los Angeles, Calif. Maple-blend table-syrup. No. 127,585; Nov. 18; v. 268; p. 557.
- Cascade Packing Company, Anacortes, Wash. Canned salmon. No. 125,973; July 22; v. 264; p. 695.
- Casco Company, The, Canton, Ohio. Laxative tablets. No. 127,176; Oct. 21; v. 267; p. 483.
- Casein, Limited, Battersea, London, England. Concentrated albuminous food prepared from milk. No. 127,722; Dec. 2; v. 269; p. 185.
- Cashmere Apple Co., Cashmere, Wash. Fresh fruits. No. 127,723; Dec. 2; v. 269; p. 185.
- Casteen & Company, West Hoboken, N. J. Cream to relieve tired, burning, &c., feet. No. 126,652; Sept. 30; v. 266; p. 734.
- Castine Bay Company, Castine, Me. Sardines. No. 127,351; Nov. 11; v. 268; p. 370.
- Castine, Michael F., Lackawanna, N. Y. Polish for automobiles, furniture, and floors. No. 128,027; Dec. 23; v. 269; p. 695.
- Castle Brothers, San Francisco, Cal. Certain named foods. No. 124,189; Jan. 21; v. 258; p. 641.
- Cave, Joseph, Philadelphia, Pa. Preparation for the relief of the odor of perspiration. No. 124,085; Jan. 14; v. 258; p. 443.
- Cecil Candy & Chocolate Co., Camden, N. J. Candy and chocolate. No. 126,653; Sept. 30; v. 266; p. 734.
- Cellbeam Manufacturing Company, Brooklyn, N. Y. Electric search-light, spot-light, and trouble lamps. No. 125,027; Apr. 8; v. 261; p. 405.
- Cellular Clothing Co. Ltd., The, London, England. Piece goods of wool, worsted, or hair. No. 124,609; Feb. 25; v. 259; p. 771.
- Cellular Clothing Co. Ltd., The, London, England. Certain named clothing for men. No. 124,674; Mar. 11; v. 260; p. 386.
- Celluloid Company, New York, N. Y. Rosettes, &c., for harness and luggage-tags, all made of pyroxylin. Nos. 125,974-6; July 22; v. 264; p. 696.
- Celluloid Company, The, New York, N. Y. Certain named articles made of pyroxylin. Nos. 126,135-7; July 29; v. 264; p. 859.
- Celluloid Company, The, New York, N. Y. Canes, parasols, umbrellas, &c. Nos. 126,257-9; Aug. 19; v. 265; p. 451.
- Celluloid Company, The, New York, N. Y. Watches, clocks, watch and clock cases and dials. Nos. 126,396-8; Aug. 26; v. 265; p. 627.
- Celluloid Company, The, New York, N. Y. Certain named electrical apparatus, &c. No. 126,515; Sept. 16; v. 266; p. 445.
- Celluloid Company, The, New York, N. Y. Hardware, plumbing, and steam-fitting supplies. No. 126,516; Sept. 16; v. 266; p. 445.
- Celluloid Company, The, New York, N. Y. Pyroxylin in mass or sheet form. No. 126,517; Sept. 16; v. 266; p. 445.
- Celluloid Company, New York, N. Y. Pyroxylin in mass or sheet form. Nos. 126,593-4; Sept. 23; v. 266; p. 593.
- Celluloid Company, The, New York, N. Y. Hardware, &c. No. 126,654; Sept. 30; v. 266; p. 734.
- Celluloid Company, New York, N. Y. Electrical apparatus, &c. Nos. 126,655-6; Sept. 30; v. 266; p. 734.
- Celluloid Company, The, New York, N. Y. Dental, medical, &c., appliances. No. 126,924; Oct. 14; v. 267; p. 335.
- Celluloid Company, The, New York, N. Y. Receptacles made of pyroxylin. Nos. 126,925-7; Oct. 14; v. 267; p. 335.
- Celluloid Company, The, New York, N. Y. Brooms and brushes and handles therefor. No. 126,928; Oct. 14; v. 267; p. 335.
- Celluloid Company, New York, N. Y. Toy whistles, rattles, dominoes, &c. No. 127,586; Nov. 18; v. 268; p. 557.
- Celluloid Company, The, Newark, N. J., and New York, N. Y. Watch stands or holders. Nos. 124,293-4; Feb. 4; v. 259; p. 177.
- Celluloid Company, Newark, N. J., and New York, N. Y. Certain named articles made of compounds of pyroxylin. Nos. 124,226-7; Jan. 28; v. 258; p. 809.
- Celluloid Company, The, Newark, N. J., and New York, N. Y. Certain named dental, medical, and surgical appliances. No. 124,228; Jan. 28; v. 258; p. 809.
- Celluloid Company, Newark, N. J., and New York, N. Y. Certain named articles made of compounds of pyroxylin. No. 125,028-9; Apr. 8; v. 261; p. 405.
- Celluloid Company, The, Newark, N. J., and New York, N. Y. Back-scratchers. No. 125,328; May 13; v. 262; p. 309.
- Celluloid Company, The, Newark, N. J., and New York, N. Y. Certain named brushes. No. 125,560; May 27; v. 262; p. 643.
- Celluloid Company, The, Newark, N. J., and New York, N. J. Paper-knives, penholders, and memorandum-tablets. No. 127,212; Oct. 28; v. 267; p. 643.
- Celro-Kola Co., Portland, Oreg. Laxative tonic and appetizer. No. 126,657; Sept. 30; v. 266; p. 734.
- Central Consumers Co. Incorporated, Louisville, Ky. Non-alcoholic carbonated cereal beverage. No. 124,229; Jan. 28; v. 258; p. 809.
- Central Electric Company, Chicago, Ill. Electric insulated weatherproof wires and friction-tape. No. 125,196; Apr. 22; v. 261; p. 795.
- Central Stamping Company, New York, N. Y. Enameled ware. No. 128,028; Dec. 23; v. 269; p. 696.
- Central Steel & Wire Company, Chicago, Ill. Cast-iron-welding metal. No. 126,138; July 29; v. 264; p. 859.
- Central Steel & Wire Company, Chicago, Ill. Welding-wire. No. 127,009; Oct. 21; v. 267; p. 478.
- Central Steel & Wire Company, Chicago, Ill. Special-alloy magnet-steel. No. 127,010; Oct. 21; v. 267; p. 478.
- Ceroxylon Company, The, Boston, Mass. Thread-waxing compound. No. 126,399; Aug. 26; v. 265; p. 627.
- Chahin, Joseph, Boston, Mass. Edible oil. No. 127,587; Nov. 18; v. 268; p. 557.
- Chain Belt Company, Milwaukee, Wis. Cutlery, machinery, and tools, and parts thereof. Nos. 126,139-40; July 29; v. 264; p. 859.
- Chambley, Alex., Philadelphia, Pa. Concrete blocks, columns, arches, and vault-light constructions. No. 126,518; Sept. 16; v. 266; p. 445.
- Chapin Company, The, New York, N. Y. Prophylactics for treatment of venereal diseases. No. 127,724; Dec. 2; v. 269; p. 185.
- Chapin-Sacks Manufacturing Company, Washington, D. C. Ice-cream. No. 125,126; Apr. 15; v. 261; p. 265.
- Chapman Milling Co., The, Sherman, Tex. Wheat-flour. No. 124,956; Apr. 1; v. 261; p. 197.
- Charles Broadway Rouss Inc. (See Rouss, Peter W., assignor.)
- Charles E. Hires Company, Philadelphia, Pa. Coffee. No. 125,935; July 15; v. 264; p. 531.
- Charles E. Lynch Shoe Mfg. Co., Inc., The, Poughkeepsie and New York, N. Y. Leather boots and shoes. No. 125,298; May 6; v. 262; p. 165.
- Charles E. Shedaker & Sons, Philadelphia, Pa. Cotton union-suits. No. 125,310; May 6; v. 262; p. 166.
- Charles E. Shedaker & Sons, Philadelphia, Pa. Women's athletic union-suits. No. 125,520; May 20; v. 262; p. 477.
- Charles E. Weyand & Co., New York, N. Y. Writing-paper and envelopes. No. 124,805; Mar. 11; v. 260; p. 390.
- Charles H. Elting & Company, Chicago, Ill. Phonographs. No. 127,034; Oct. 21; v. 267; p. 478.
- Charles M. Decker & Bros., Orange, N. J. Cocoa. No. 128,234; Dec. 30; v. 269; p. 881.
- Charles R. De Revoise Company, Newark, N. J. Women's brassieres and corsets. No. 127,021; Oct. 21; v. 267; p. 478.
- Charles P. Stanley Cigar Company, St. Louis, Mo. Cigars. No. 124,264; Jan. 28; v. 258; p. 810.
- Charlotte Leather Belting Company, Charlotte, N. C. Leather belting. Nos. 128,029-32; Dec. 23; v. 269; p. 696.
- Charmant Specialty Co., Inc., New York, N. Y. Toilet preparation. No. 128,033; Dec. 23; v. 269; p. 696.
- Chas. W. Young & Co., Philadelphia, Pa. Soap. No. 124,495; Feb. 18; v. 259; p. 573.
- Chase-A-Gray French Co., Great Kills, N. Y. Hair-coloring compounds. No. 127,213; Oct. 28; v. 267; p. 643.
- Chatfield & Woods Company, The, Cincinnati, Ohio. Wrapping-paper for chemical explosives. No. 124,510; Feb. 25; v. 259; p. 771.



## Alphabetical list of registrants of trade-marks—Continued.

- Chemical Company of America, Inc., New York, N. Y. Chemical compounds for waterproofing textile fabrics. No. 127,815; Dec. 9; v. 269; p. 387.
- Chemists Co. of New York, Inc., New York, N. Y. Antiseptic tooth-paste. No. 124,675; Mar. 11; v. 260; p. 386.
- Cheney Brothers, South Manchester, Conn. Silk fabrics. Nos. 125,401-2; May 20; v. 262; p. 473.
- Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. Nos. 125,403-4; May 20; v. 262; p. 473.
- Cheney Brothers, South Manchester, Conn. Spun silk yarn, machine-twist, knitting, &c., silks. Nos. 125,616-17; June 3; v. 263; p. 161.
- Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. Nos. 125,781-93; June 17; v. 263; p. 477.
- Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. No. 126,519; Sept. 16; v. 266; p. 445.
- Cheney Brothers, South Manchester, Conn. Cravats, neckties. Nos. 127,353-4; Nov. 11; v. 268; p. 370.
- Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures. Nos. 127,908-13; Dec. 16; v. 269; p. 541.
- Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures in the piece. No. 128,019; Dec. 23; v. 269; p. 695.
- Chesnut, Cooper & Co., London, England. Bristles. No. 124,820; Mar. 18; v. 260; p. 555.
- Chest-Heur Sock Co., Boston, Mass. Men's and children's hosiery. No. 125,977; July 22; v. 264; p. 696.
- Chic Mint Gum Co., Wilmington, Del. Medicated chewing-gum. No. 128,198; Dec. 23; v. 269; p. 701.
- Chicago Apparatus Company, Chicago, Ill. Pumps, hydraulic presses. No. 125,405; May 20; v. 262; p. 473.
- Chicago Apparatus Company, Chicago, Ill. Demonstration motors and dynamos, lamp-rheostats, &c. No. 125,622; June 3; v. 263; p. 161.
- Chicago Apparatus Company, Chicago, Ill. Scientific instruments. No. 126,260; Aug. 19; v. 265; p. 451.
- Chicago Cycle Supply Company, Chicago, Ill. Pneumatic rubber tires, inner tubes, tire-repair kits. No. 124,442; Feb. 18; v. 259; p. 571.
- Chicago Cycle Supply Company, Chicago, Ill. Bicycles. No. 124,676; Mar. 11; v. 260; p. 386.
- Chicago Mercantile Company, Chicago, Ill. Women's hats. Nos. 126,827-8; Oct. 7; v. 267; p. 177.
- Chicago Pneumatic Tool Company, Chicago, Ill. Air-drills. No. 124,677; Mar. 11; v. 260; p. 386.
- Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic riveting-hammers. Nos. 125,618-19; June 3; v. 263; p. 161.
- Chicago Pneumatic Tool Company, Chicago, Ill. Automobiles and automobile-trucks. No. 125,620; June 3; v. 263; p. 161.
- Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic riveting-hammers. No. 125,621; June 3; v. 263; p. 161.
- Chicago Steel Post Company, Chicago, Ill. Metallic fence-posts. No. 125,561; May 27; v. 262; p. 643.
- Chipman Knitting Mills, Easton, Pa. Hosiery. No. 126,400; Aug. 26; v. 265; p. 627.
- Chippewa Milling Company, Montevideo, Minn. Wheat-flour. No. 126,261; Aug. 19; v. 265; p. 451.
- Christian Pepper Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. No. 124,511; Feb. 25; v. 259; p. 771.
- Christman, Louis E., Jackson, Tenn. Chemicals, medicines, &c. No. 127,725; Dec. 2; v. 269; p. 185.
- Chrysos, William D., Chicago, Ill. Remedy for piles. No. 125,794; June 17; v. 263; p. 477.
- Churchill Grain & Seed Co., The, Toledo, Ohio, and Buffalo, N. Y. Dry shelled popcorn, unpopped. No. 128,228; Dec. 30; v. 269; p. 881.
- Cincinnati Auto Specialty Co., The, Cincinnati, Ohio. Radiator and engine covers. No. 124,678; Mar. 11; v. 260; p. 386.
- Cincinnati Lathe and Tool Company, The, Cincinnati, Ohio. Metal-working engine-lathes. No. 126,262; Aug. 19; v. 265; p. 452.
- Cinderella Dye Soap Corporation, Chicago, Ill. Dyes combined with soap. No. 124,512; Feb. 25; v. 259; p. 771.
- Cirkler, Chas. H., Minneapolis, Minn. Capsules. No. 127,355; Nov. 11; v. 268; p. 370.
- Clark, Fred, Arctic, R. I. Ginger-ale, sarsaparilla, orange-ade, &c. No. 127,178; Oct. 21; v. 267; p. 483.
- Clark Printing & Manufacturing Company, Lock Haven, Pa. Combination calendar and reminder. No. 127,816; Dec. 9; v. 269; p. 387.
- Clark Rubber Manufacturing Company, Portland, Me., and Franklin, Mass. Soles and heels of shoes. No. 128,230; Dec. 30; v. 269; p. 881.
- Clark Thread Co., The, Newark, N. J. Thread. No. 125,031; Apr. 8; v. 261; p. 405.
- Clark Thread Co., The, Newark, N. J. Cotton thread. No. 125,897; July 8; v. 264; p. 349.
- Clarke, Harry N., Alliance, Ohio. Certain named workmen's garments. No. 125,269; Apr. 29; v. 261; p. 953.
- Classic Motor Car Corporation, Chicago, Ill. Automobiles, pleasure and commercial. No. 125,032; Apr. 8; v. 261; p. 405.
- Claxo Company, Iowa City, Iowa. Portable electric fans or blowers. No. 127,588; Nov. 18; v. 268; p. 557.
- Clear Lake Lumber Company, Clear Lake, Wash. Lumber. No. 125,128; Apr. 15; v. 261; p. 265.
- Clearfield Clay Working Company, The, Clearfield, Pa. Brick and tile manufactured from fire-clay. No. 127,914; Dec. 16; v. 269; p. 541.
- Cleary, Robert E., Spokane, Wash. Chili-con-carne and tamales. No. 125,197; Apr. 22; v. 261; p. 795.
- Clement, Louis, assignor to John A. Percival, New York, N. Y. Constructed liquid fuel for combustion-engines, &c. No. 126,658; Sept. 30; v. 266; p. 734.
- Clement and Stockwell Inc., New York, N. Y. Writing and printing paper and mailing-envelops. No. 128,034; Dec. 23; v. 269; p. 696.
- Cleveland Chain & Mfg. Co., The, Cleveland, Ohio. Anti-skid-chains. No. 127,214; Oct. 28; v. 267; p. 643.
- Cleveland Osborn Manufacturing Company, The, Cleveland, Ohio. Factory, foundry, platers' brushes. No. 125,198; Apr. 22; v. 261; p. 795.
- Cleveland Osborn Manufacturing Company, The, Cleveland, Ohio. Molders' bellows. No. 125,199; Apr. 22; v. 261; p. 795.
- Cleveland Osborn Manufacturing Company, The, Cleveland, Ohio. Paint, varnish, &c., brushes. No. 127,356; Nov. 11; v. 268; p. 370.
- Cleveland Osborn Manufacturing Company, The, Cleveland, Ohio. Household, factory, painters', &c., scrubbing-brushes and brooms. No. 127,357; Nov. 11; v. 268; p. 370.
- Cleveland, Roy C., Chicago, Ill. Preparation for the alleviation of coughs. No. 126,659; Sept. 30; v. 266; p. 734.
- Cleveland Tractor Company, The, Euclid, Ohio. Tractors and parts thereof. No. 126,401; Aug. 26; v. 265; p. 627.
- Clode, Edward J., New York, N. Y. Printed books. No. 127,817; Dec. 9; v. 269; p. 387.
- Clothier, Robert W., Washington, D. C. Medicinal preparations for colds, catarrh, &c. No. 125,978; July 22; v. 264; p. 696.
- Clothometer Company, Inc., The, New York, N. Y. Measuring and computing machines for measuring cloths and fabrics. No. 127,358; Nov. 11; v. 268; p. 370.
- Clover Leaf Milling Company, Wellington, Mo. Corn products. Nos. 126,660-1; Sept. 30; v. 266; p. 734.
- Cluett, Peabody & Co., Inc., Troy, N. Y. Collars and cuffs. No. 127,011; Oct. 21; v. 267; p. 478.
- Clysmic Spring Co., New York, N. Y. Certain named table-water and soft drinks. No. 125,200; Apr. 22; v. 261; p. 795.
- Clysmic Spring Co., New York, N. Y. Table-water and soft drinks. No. 125,406; May 20; v. 262; p. 473.
- Coast Fishing Co., Wilmington, Cal. Canned sardines. No. 124,679; Mar. 11; v. 260; p. 386.
- Coats Machine Tool Company, Inc., New York, N. Y. Fluid-gages and parts of same. No. 127,359; Nov. 11; v. 268; p. 370.
- Cohn, Goldwater Company, Los Angeles, Calif. Girls' dresses. No. 126,829; Oct. 7; v. 267; p. 177.
- Cohn, Goldwater Company, Los Angeles, Calif. Girls' dresses. No. 127,268; Nov. 4; v. 268; p. 187.
- Cohn-Hall-Marx Co., New York, N. Y. Cotton piece goods. No. 125,979; July 22; v. 264; p. 696.
- Cohn Hall Marx Co., New York, N. Y. Cotton piece goods. No. 127,915; Dec. 16; v. 269; p. 541.
- Cohn, Herman, New York, N. Y. Musical-instrument strings. No. 127,593; Nov. 18; v. 268; p. 557.
- Colby, Guy E., Morrison, Ill. Certain named spark-intensifying devices. No. 124,680; Mar. 11; v. 260; p. 386.
- Cole & Reed, Alcester, S. D. Insect-poison. No. 124,372; Feb. 11; v. 259; p. 379.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Face-powders and cold-creams. No. 124,373; Feb. 11; v. 259; p. 379.
- Collins Canning Company, Lakeland, Fla. Unfermented grape-fruit juice. No. 127,215; Oct. 28; v. 267; p. 643.
- Collis Products Company, Clinton, Iowa. Powdered butter-milk. No. 128,232; Dec. 30; v. 269; p. 881.
- Colonial Mills Co., The, Cleveland, Ohio. Woven woolen automobile robes and shawls and steamer-blankets. No. 124,443; Feb. 18; v. 259; p. 571.
- Colonial Phonograph Co., Sheboygan, Wis. Phonographs and phonograph-records. No. 125,129; Apr. 15; v. 261; p. 265.
- Colonial Steel Company, Pittsburgh, Pa. Bits for lathes for cutting metal. No. 124,681; Mar. 11; v. 260; p. 386.
- Colonial Steel Company, Pittsburgh, Pa. Bits for lathes for cutting. No. 127,216; Nov. 4; v. 268; p. 643.
- Colquitt, Marie De B., Washington, D. C. Bonnets, hats, and dresses for children. No. 127,360; Nov. 11; v. 268; p. 370.
- Colorado Milling & Elevator Co., Denver, Colo., and Caldwell, Idaho. Wheat-flour. No. 124,682; Mar. 11; v. 260; p. 386.
- Columbia Cheese Co., Newark, N. J. Eggs. No. 127,361; Nov. 11; v. 268; p. 370.



- Columbia Fastener Company, Chicago, Ill. Dress-fasteners. No. 124,821; Mar. 18; v. 260; p. 555.
- Columbia Fastener Company, Chicago, Ill. Dress-fasteners. No. 124,923; Mar. 25; v. 260; p. 729.
- Columbia Fastener Company, Chicago, Ill. Mucilage. No. 127,362; Nov. 11; v. 268; p. 370.
- Columbian Enameling & Stamping Company, Terre Haute, Ind. Certain named enameled ware for household use. Nos. 125,033-4; Apr. 8; v. 261; p. 405.
- Columbian Enameling & Stamping Company, Terre Haute, Ind. Certain named enameled ware for household use. No. 125,407; May 20; v. 262; p. 474.
- Columbian Enameling & Stamping Company, Terre Haute, Ind. Certain named enameled ware for household use. No. 125,865; June 24; v. 263; p. 631.
- Columbian Rope Company, Auburn, N. Y. Twine. Nos. 125,201-2; Apr. 22; v. 261; p. 795.
- Columbus Tractor Co., Columbus, Ohio. Farm-tractors. No. 124,683; Mar. 11; v. 260; p. 386.
- Columbus-Union Oil Cloth Co., The, Columbus, Ohio. Oil-cloth. No. 125,035; Apr. 8; v. 261; p. 405.
- Commander Mill Co., Minneapolis, Minn. Wheat-flour. No. 127,269; Nov. 4; v. 268; p. 187.
- Commercial Chemical Co., Memphis, Tenn. Chemical composition for destroying insects. No. 125,329; May 13; v. 262; p. 309.
- Commercial Groves Company of Florida, The, Orlando, Fla. Orange preserves, grape-fruit preserves, and marmalade. No. 126,830; Oct. 7; v. 267; p. 177.
- Commercial Milling Co., The, Detroit, Mich. Wheat-flour. No. 125,562; May 27; v. 262; p. 643.
- Commercial Shirt Company, New York, N. Y. Cotton and silk piece goods. No. 127,363; Nov. 11; v. 268; p. 370.
- Commins, Mack, Gadsden, Ala. Hair-tonic. No. 125,723; June 10; v. 263; p. 327.
- Common Sense Manufacturing Co., Inc., Buffalo, N. Y. Preparation for destroying rats, bedbugs, &c. No. 126,263; Aug. 19; v. 265; p. 452.
- Commonwealth Brass Corporation, Detroit, Mich. Metallic radiator-valves. No. 127,217; Oct. 28; v. 267; p. 643.
- Complete Roofing Co., The, Cleveland, Ohio. Asphalt and cement composition shingles, &c., for roofing. No. 124,190; Jan. 21; v. 258; p. 641.
- Concord Grape Juice Company, Providence, R. I. Grape juice. No. 125,286; May 6; v. 262; p. 165.
- Conclin, David B., Cincinnati, Ohio. Powder for cleaning, &c., carpets, rugs, &c. No. 125,624; June 3; v. 263; p. 161.
- Confectioners' Specialty Company, Philadelphia, Pa. Cocoa, chocolate, and candies. No. 127,727; Dec. 2; v. 269; p. 185.
- Congoleum Company, Philadelphia, Pa. Prepared floor-covering of the oiled-cloth type. Nos. 125,980-1; July 22; v. 264; p. 696.
- Congoleum Company, Philadelphia, Pa. Prepared floor-coverings, &c. No. 126,264; Aug. 19; v. 265; p. 452.
- Conlon & Peterson, Boston, Mass. Candy and chocolate coatings. No. 128,233; Dec. 30; v. 269; p. 881.
- Connecticut Telephone & Electric Co. Inc., Meriden, Conn. Electric switches. No. 124,684; Mar. 11; v. 260; p. 386.
- Connor, Thomas E., Lynn, Mass. Pile-ointment. No. 127,013; Oct. 21; v. 267; p. 478.
- Conover, John T., New Brunswick, N. J. Ladies' hosiery. No. 125,982; July 22; v. 264; p. 696.
- Consolidated Flour Mills Company, Hutchinson, Kans. Wheat-flour. No. 124,086; Jan. 14; v. 258; p. 443.
- Consolidated Pharmaceutical Laboratories, The, Los Angeles, Calif. Foot-powder. No. 126,929; Oct. 14; v. 267; p. 335.
- Consumers Biscuit Company, New Orleans, La. Biscuit. No. 127,179; Oct. 21; v. 267; p. 483.
- Consumers Fruit Company of America, Chicago, Ill. Fresh fruits. No. 125,866; June 24; v. 263; p. 631.
- Contadina Canning Co., The, San Jose, Calif., and Chicago, Ill. Canned tomato sauce. No. 124,957; Apr. 1; v. 261; p. 197.
- Continental Bedding Manufacturing Company, San Francisco, Calif. Mattresses. No. 128,036; Dec. 23; v. 269; p. 696.
- Continental File Corporation, Anderson, Ind. New and recut files. No. 126,402; Aug. 26; v. 265; p. 627.
- Continental Scale Works, Chicago, Ill. Weighing-scales. No. 127,014; Oct. 21; v. 267; p. 478.
- Contracting Publishing Corporation, New York, N. Y. Periodicals, semimonthly. No. 125,408; May 20; v. 262; p. 474.
- Converse & Company, New York, N. Y. Cotton piece goods. No. 124,958; Apr. 1; v. 261; p. 197.
- Converse & Company, New York, N. Y. Cotton piece goods. No. 125,409; May 20; v. 262; p. 474.
- Cooper Underwear Company, Kenosha, Wis. Certain named clothing for men, women, and children. No. 125,795; June 17; v. 263; p. 477.
- Cooper Underwear Company, Kenosha, Wis. Clothing. No. 127,015; Oct. 21; v. 267; p. 478.
- Cooper Underwear Company, Kenosha, Wis. Underwear, woven and knitted, and socks. No. 128,037. Dec. 23; v. 269; p. 696.
- Copper Clad Steel Co., Rankin borough, Pa. Certain named welded bronze and steel products. No. 125,410; May 20; v. 262; p. 474.
- Copper Clad Steel Co., Rankin borough, Pa. Certain named welded brass and steel products. No. 125,411; May 20; v. 262; p. 474.
- Corn Products Refining Co., New York, N. Y. Soap. No. 124,191; Jan. 21; v. 258; p. 641.
- Corning Glass Works, Corning, N. Y. Lenses to be used in lamps. No. 125,412; May 20; v. 262; p. 474.
- Cornish, Jesse B., Chicago, Ill. Varnishes. No. 125,203; Apr. 22; v. 261; p. 795.
- Cotex Company, The, Newark, N. J. Coated textile fabrics. No. 124,230; Jan. 28; v. 258; p. 809.
- Coughlin, John W., Fall River, and Boston, Mass. Remedy for throat and nose diseases. No. 128,038; Dec. 23; v. 269; p. 697.
- Counter Confection Company, Chicago, Ill. Salted peanuts. No. 127,364; Nov. 11; v. 268; p. 370.
- Country Club Soda Company, Springfield, Mass. Birch and root beers, lemon-soda, &c. No. 126,831; Oct. 7; v. 267; p. 177.
- Cowles, Arthur B., Rochester, N. Y. Plant and tree protectors. No. 127,218; Oct. 28; v. 267; p. 643.
- Cox Confectionery Company, Boston, Mass. Candies. No. 126,266; Aug. 19; v. 265; p. 452.
- Craddick, William F., Seattle, Wash., assignor to Vit-O-Net Manufacturing Company. Garments for imparting electric heat and radiation to the human body for therapeutic purposes. No. 126,267; Aug. 19; v. 265; p. 452.
- Craddock-Terry Company, Lynchburg, Va. Ladies' boots and shoes. No. 126,832; Oct. 7; v. 267; p. 177.
- Craddock-Terry Company, Lynchburg, Va. Ladies' shoes. No. 127,365; Nov. 11; v. 268; p. 371.
- Craig Tractor Company, The, Euclid, Ohio. Farm-tractors. No. 127,016; Oct. 21; v. 267; p. 478.
- Crane Bros. Inc., Kingston, Pa. Silk yarns. No. 124,685; Mar. 11; v. 260; p. 386.
- Crane, Clarence A., Cleveland, Ohio. Candy. No. 127,017; Oct. 21; v. 267; p. 478.
- Crane, Clarence A., Cleveland, Ohio. Chocolates. No. 127,728; Dec. 2; v. 269; p. 185.
- Cravenette Co., U. S. A., The, Hoboken, N. J. Waterproofed fabrics. No. 126,403; Aug. 26; v. 265; p. 627.
- Crawford, Herbert C., Binghamton, N. Y. Ointment for certain named skin affections. No. 125,270; Apr. 29; v. 261; p. 953.
- Crawford, Thomas F., Pleasantville, N. J. Liquid dental preparation. No. 126,404; Aug. 26; v. 265; p. 628.
- Cream City Brewing Co., Milwaukee, Wis. Certain named malt beverages, extracts, and liquors. Nos. 126,141-2; July 29; v. 264; p. 859.
- Cream City Brewing Co., Milwaukee, Wis. Maltless beverage made of corn. No. 127,219; Oct. 28; v. 267; p. 643.
- Cream City Brewing Co., Milwaukee, Wis. Maltless beverage. No. 127,220; Oct. 28; v. 267; p. 643.
- Creotina Chemical Company, St. Louis, Mo. Dental preparation. No. 126,833; Oct. 7; v. 267; p. 177.
- Creotina Chemical Company, St. Louis, Mo. Preparation for pulmonary troubles, &c. No. 127,180; Oct. 21; v. 267; p. 483.
- Crew Levick Company, Philadelphia, Pa. Oil-polish for automobiles and furniture. No. 124,513; Feb. 25; v. 259; p. 771.
- Crippen & Reid, Baltimore, Md. Middy-blouses and middy-suits for women and children. No. 127,270; Nov. 4; v. 268; p. 187.
- Crisafulli Bros., New York, N. Y. Corn or cotton salad-oil compounded with extra-fine olive-oil. No. 124,924; Mar. 25; v. 260; p. 729.
- Crisi & Cerchione, New York, N. Y. Olive-oil. No. 127,271; Nov. 4; v. 268; p. 187.
- Crocker & Company, Seattle, Wash. Canned food consisting principally of codfish and potatoes. No. 125,724; June 10; v. 263; p. 327.
- Crockett, Carrie, Topeka, Kans. Hair-tonics, shampooing-balm, and pressing-oil. No. 126,405; Aug. 26; v. 265; p. 628.
- Croft, William, Salem, N. H. Potato-chips. No. 126,268; Aug. 19; v. 265; p. 452.
- Crompton Company, Crompton, R. I. Corduroys. No. 126,520; Sept. 16; v. 266; p. 445.
- Crompton Company, Crompton, R. I. Corduroys. No. 126,834; Oct. 7; v. 267; p. 177.
- Crompton Company, Crompton, R. I. Velvetens. No. 127,917; Dec. 16; v. 269; p. 541.
- Cromwell Brothers, New York, N. Y. Textile fabrics. No. 127,918; Dec. 16; v. 269; p. 541.
- Crone Millinery Co., St. Louis, Mo. Ladies', misses', and children's hats. No. 126,835; Oct. 7; v. 267; p. 177.
- Crosby, Dorothy M., Duluth, Minn. Dolls. No. 126,143; July 29; v. 264; p. 859.
- Crossingham Knitting Mills, Philadelphia and Germantown, Pa. Knitted undershirts, drawers, union-suits. No. 127,367; Nov. 11; v. 268; p. 377.
- Crown Bottling Co., Muncie, Ind. Non-alcoholic beverages and syrups for making same. No. 126,662; Sept. 30; v. 266; p. 734.



## Alphabetical list of registrants of trade-marks—Continued.

- Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Closures for bottles and the like. No. 127,596; Nov. 18; v. 268; p. 557.
- Crown Cork and Seal Company of Baltimore City, The, Baltimore, Md. Bottle-capping machines. Nos. 127,818-19; Dec. 9; v. 269; p. 387.
- Crown Cork and Seal Company of Baltimore City, The, Baltimore, Md. Bottle capping and filling machines. No. 127,916; Dec. 16; v. 269; p. 541.
- Crown Corporation, New Haven, Conn. Chemical gasoline-intensifier and carbon-remover. No. 127,729; Dec. 2; v. 269; p. 185.
- Crown Glove Company, New York, N. Y. Fabric gloves. No. 125,271; Apr. 29; v. 261; p. 953.
- Crown Perfumery Company, New York, N. Y. Smelling-salts. No. 125,331; May 13; v. 262; p. 309.
- Crown Perfumery Company, The, New York, N. Y. Perfumed soaps. No. 126,406; Aug. 26; v. 265; p. 628.
- Crucible Steel Company of America, Pittsburgh, Pa. Steel in certain named forms. Nos. 125,413-14; May 20; v. 262; p. 474.
- Crucible Steel Company of America, Pittsburgh, Pa. Steel. No. 125,725; June 10; v. 263; p. 327.
- Crutchfield, Frank, Richmond, Va. Fertilizers. No. 124,514; Feb. 25; v. 259; p. 771.
- Crutchfield, Frank, Richmond, Va. Fertilizers. No. 125,036; Apr. 8; v. 261; p. 405.
- Crystal Washing Machine Company, Detroit, Mich. Power-driven clothes-washing machines. No. 126,930; Oct. 14; v. 267; p. 335.
- Crystolene Cut Glass Company, Brooklyn, N. Y. Cut-glass articles. No. 127,368; Nov. 11; v. 268; p. 371.
- Csicsics, Stephan, South Bend, Ind. Liquid for cleaning and removing stains from cloth and the like. No. 124,515; Feb. 25; v. 259; p. 771.
- Cullen, Thomas C., Bradford, England. Wool and wool and cotton piece goods. No. 124,959; Apr. 1; v. 261; p. 197.
- Cullen, Thomas C., Bradford, England. Hats, caps, hosiery, gloves, &c. No. 126,836; Oct. 7; v. 267; p. 177.
- Cunningham Springless Shade Company, Greensboro, N. C. Window-shades. No. 127,018; Oct. 21; v. 267; p. 478.
- Cupples Company, Manufacturers, St. Louis, Mo. Phonographs. No. 128,039; Dec. 23; v. 269; p. 697.
- Currie, Isadora, East Quogue, N. Y. Detergent stain-removing composition. No. 124,516; Feb. 25; v. 259; p. 771.
- Curtin, William S., Lynn, Mass. Medicine for catarrhal affections, &c. No. 127,019; Oct. 21; v. 267; p. 478.
- Curtis & Marble Machine Co., Worcester, Mass. Certain named machinery appertaining to the textile industry. No. 126,407; Aug. 26; v. 265; p. 628.
- Curtis Pharmaceutical Company, Denver, Colo. Preparations for treating venereal diseases. No. 127,597; Nov. 18; v. 268; p. 557.
- Cutaway Harrow Co., The, Higganum, Conn. Certain named cutlery, machinery, &c. No. 124,686; Mar. 11; v. 260; p. 386.
- Cutino, Edmund D., Kansas City, Mo. Hair and tooth brushes. No. 124,517; Feb. 25; v. 259; p. 771.
- Cutino, Edmund D., Kansas City, Mo. Tooth, nail, hair, and hand brushes or scrubs. No. 125,563; May 27; v. 262; p. 643.
- Cutler, Augustus L., Wakefield, Mass. Paper felt. No. 127,919; Dec. 16; v. 269; p. 541.
- Cutter-Schneider Machine Company, St. Louis, Mo. Cloth laying, folding, and cutting machines. No. 124,295; Feb. 4; v. 259; p. 177.
- D. Auerbach & Sons, New York, N. Y. Candy. No. 128,220; Dec. 23; v. 269; p. 701.
- D. Ghirardelli Co., San Francisco, Calif. Chocolate. No. 127,045; Oct. 21; v. 267; p. 479.
- D. W. Shoyer & Co., New York, N. Y. Knit skirts, sweaters, slippers, spencers. No. 125,311; May 6; v. 262; p. 166.
- Dahl Manufacturing Company, New York, N. Y. Rules, folding and extension rules. No. 124,296; Feb. 4; v. 259; p. 177.
- Daisy Cup Company, Incorporated, The, New York, N. Y. Paper-pulp spoons. No. 125,796; June 17; v. 263; p. 477.
- Daisy Hosiery Mills, Burlington, N. C. Hosiery and knitted underwear. No. 127,369; Nov. 11; v. 268; p. 371.
- Dallwig Distributing Co., Chicago, Ill. Dolls and wigs thereof. No. 126,931; Oct. 14; v. 267; p. 335.
- Danahy Packing Co. The, Buffalo, N. Y. Sausages. No. 127,020; Oct. 21; v. 267; p. 478.
- Darwin & Milner, Inc., New York, N. Y. Bar-steel and steel castings. Nos. 127,370-1; Nov. 11; v. 268; p. 371.
- Dattelbaum & Friedman, New York, N. Y. Gold finger-rings. No. 126,932; Oct. 14; v. 267; p. 335.
- Dau, Fredrick W., New York, N. Y. Social registers or directories. No. 125,415; May 20; v. 262; p. 474.
- Daum Rogers Spitzer Co., New York, N. Y. Hosiery for boys and girls. No. 127,372; Nov. 11; v. 268; p. 371.
- David H. Fulton & Bro., Detroit, Mich. Stomach-tonic and alterative used in treating certain named disorders. No. 124,709; Mar. 11; v. 260; p. 387.
- David McMeekan M'fg. Co., Brooklyn, N. Y. Certain named chemicals, medicines, and pharmaceutical preparations. No. 125,073; Apr. 8; v. 261; p. 407.
- David Schwartz Co., Inc., New York, N. Y. Chambrays and tickings. Nos. 127,679-81; Nov. 18; v. 268; p. 560.
- Davis, Albert M., Philadelphia, Pa. Felt hats. No. 126,837; Oct. 7; v. 267; p. 177.
- Davis, Albert M., Philadelphia, Pa. Felt hats. No. 128,040; Dec. 23; v. 269; p. 696.
- Davis, Alvis H., Santa Maria, Calif. Medicinal preparation for typhoid fever, &c. No. 126,144; July 29; v. 264; p. 859.
- Davis, Benjamin H., Baltimore, Md. Board games. No. 128,041; Dec. 23; v. 269; p. 696.
- Davis Bros. Fisheries, Inc., Gloucester, Mass. Fish. No. 125,287; May 6; v. 262; p. 165.
- Davis Bros. Fisheries, Inc., Gloucester, Mass. Fresh, canned, &c., fish. No. 125,332; May 13; v. 262; p. 309.
- Davis Bros. Fisheries, Inc., Gloucester, Mass. Fish. No. 125,626; June 3; v. 263; p. 161.
- Davis, Charles C., Chicago, Ill. Yarns and thread spun from jute. No. 125,416; May 20; v. 262; p. 474.
- Davis, Elizabeth, McAdoo, Pa. Healing-salve for treatment of burns, &c. No. 127,730; Dec. 2; v. 269; p. 185.
- Davis Sewing Machine Company, Dayton, Ohio. Bicycles. No. 127,272; Nov. 4; v. 268; p. 187.
- Davol Rubber Company, Providence, R. I. Certain named dental, medical, and surgical appliances. No. 124,232; Jan. 28; v. 258; p. 809.
- Dayton Toy & Specialty Co., Dayton, Ohio. Toy wagons, wheelbarrows, and carts. No. 128,042; Dec. 23; v. 269; p. 696.
- De Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Petroleum, kerosene, benzine, naphtha, gasoline. No. 124,687; Mar. 11; v. 260; p. 386.
- De Bruyn, Limited, London, England. Margarin and lard compound. No. 124,688; Mar. 11; v. 260; p. 386.
- De Jesus, José, New York, N. Y. Medicinal tonic. No. 126,933; Oct. 14; v. 267; p. 335.
- De Long, Enos D., Bay City, Mich. Scalp-cleanser. No. 125,038; Apr. 8; v. 261; p. 405.
- De Long Hook and Eye Company, The, Philadelphia, Pa. Safety and toilet pins, snap fasteners or buttons. No. 127,374; Nov. 11; v. 268; p. 371.
- De Long Hook and Eye Company, Philadelphia, Pa. Hooks and eyes, snap-fasteners, safety and toilet pins. No. 127,375; Nov. 11; v. 268; p. 371.
- De Long Hook and Eye Company, Philadelphia, Pa. Snap-fasteners. No. 127,376; Nov. 11; v. 268; p. 371.
- De Luxe Brush Company, Wilmington, Del., and Philadelphia, Pa. Shaving-brushes. No. 125,798; June 17; v. 263; p. 477.
- De Neergaard, Elma M., New York, N. Y. Looms. No. 124,689; Mar. 11; v. 260; p. 386.
- De Pree Chemical Company, The, Holland, Mich. Complexion powder and cream, toilet water, &c. No. 126,838; Oct. 7; v. 267; p. 177.
- De Witt, Macdonald, New York, N. Y., assignor to News Syndicate Co., Inc. Daily publication. No. 127,824; Dec. 9; v. 269; p. 387.
- Deane Plaster Co., The, Yonkers, N. Y. Corn-plasters. No. 125,037; Apr. 8; v. 261; p. 405.
- Deckert, Virgil F., Minneapolis, Minn. Tractors. No. 126,663; Sept. 30; v. 266; p. 734.
- Deep Sea Salmon Company, Seattle, Wash. Canned salmon. Nos. 125,564-5; May 27; v. 262; p. 643.
- Deer Creek Creamery Butter & Commission Co., Kansas City, Mo. Butter. No. 124,518; Feb. 25; v. 259; p. 771.
- Deere & Company, Moline, Ill. Cultivators and parts thereof. No. 127,820; Dec. 9; v. 269; p. 387.
- Defiance Machine Works, Defiance, Ohio. Metal-working and woodworking machinery. No. 128,043; Dec. 23; v. 269; p. 696.
- Degner, Fred, New York, N. Y. Mayonnaise dressing. No. 126,664; Sept. 30; v. 266; p. 734.
- Deitchman, Hyman, Chicago, Ill. Insect-exterminator and disinfectant. No. 125,204; Apr. 22; v. 261; p. 795.
- Defond, Joseph, London, England. Imitation leather for use in making boots and shoes. No. 125,898; July 8; v. 264; p. 349.
- Delbare Manufacturing Co., Chicago, Ill. Washing tablets and compound. No. 126,408; Aug. 26; v. 265; p. 628.
- Delikat, Thomas, Newark, N. J. Insecticide. No. 126,409; Aug. 26; v. 265; p. 628.
- Demas Armor-Cased Tire Saving Co., Inc., Pittsburgh, Pa. Pneumatic rubber tires and solid rubber tires. No. 128,044; Dec. 23; v. 269; p. 696.
- Deming Company, The, Salem, Ohio. Machines for spraying trees, plants, &c. No. 126,410; Aug. 26; v. 265; p. 628.
- Deming Company, The, Salem, Ohio. Spraying-nozzles. No. 126,523; Sept. 16; v. 266; p. 445.
- Deming Company, The, Salem, Ohio. Machines and tools and parts thereof. No. 126,595; Sept. 23; v. 266; p. 593.
- Den Kongelige Porcelainsfabrik, Copenhagen, Denmark. Porcelain ware. No. 126,799; June 17; v. 263; p. 477.



- Denominator Adding Machine Company, Brooklyn, N. Y. Tabulating-machines. No. 126,145; July 29; v. 264; p. 859.
- Denova Manufacturing Company, Denver, Colo. Metal and glass polish. No. 128,235; Dec. 30; v. 269; p. 881.
- Denver Rock Drill Manufacturing Company, The, Denver, Colo. Rock-drills. No. 125,800; June 17; v. 263; p. 477.
- Denzer & Nathan, New York, N. Y. Cotton piece goods. No. 124,690; Mar. 11; v. 260; p. 386.
- Derryvale Linen Co., New York, N. Y. Certain named fabrics. No. 125,417; May 20; v. 262; p. 474.
- Despard & Gordon Company, Chicago, Ill. Electric-lamp sockets. No. 125,627; June 3; v. 263; p. 161.
- Detroit Accessories Corporation, Detroit, Mich. Spark-plug-firing indicators. No. 126,146; July 29; v. 264; p. 860.
- Detroit Alaska Knitting Mills, Detroit, Mich. Knitted hosiery, gloves, and mittens. No. 125,040; Apr. 8; v. 261; p. 406.
- Detroit Leather Works, Detroit, Mich. Laminated rubber and leather belts for motor-cars, &c. No. 128,045; Dec. 23; v. 269; p. 696.
- Devine and Hoffer, Philadelphia, Pa. Children's shoes. No. 124,692; Mar. 11; v. 260; p. 386.
- Dewart Milk Products Co. Inc., Dewart borough, Pa. Condensed skimmed milk. No. 124,960; Apr. 1; v. 261; p. 197.
- Dexter, Mrs. Billie, South Pasadena, Calif. Certain named garments for children. No. 124,822; Mar. 18; v. 260; p. 555.
- Di Santo, Joseph, Duluth, Minn. Effervescent granular, a magnesia preparation. No. 125,333; May 13; v. 262; p. 309.
- Diamond Expansion Bolt Co., New York, N. Y. Expansion-shields for machine-bolts, machine and cap screws, tap and stud bolts. No. 124,297; Feb. 4; v. 259; p. 177.
- Diamond Expansion Bolt Co., New York, N. Y. Drills, drill handles, points, and bits. No. 124,693; Mar. 11; v. 260; p. 386.
- Diamond Expansion Bolt Co., New York, N. Y. Drills, drill handles, and points. No. 124,694; Mar. 11; v. 260; p. 386.
- Diamond Expansion Bolt Co., New York, N. Y. Expansion bolts and shields and screw-anchors. No. 124,961; Apr. 1; v. 261; p. 197.
- Diamond Expansion Bolt Co., New York, N. Y. Drills, drill-handles, and drill-points. No. 125,041; Apr. 8; v. 261; p. 406.
- Diamond Expansion Bolt Co., New York, N. Y. Expansion bolts and shields. No. 125,205; Apr. 22; v. 261; p. 795.
- Diamond Expansion Bolt Co., New York, N. Y. Expansion bolts and shields, screw-anchors. No. 125,206; Apr. 22; v. 261; p. 795.
- Diamond Expansion Bolt Co., New York, N. Y. Expansion bolts and shields. No. 126,524; Sept. 16; v. 266; p. 445.
- Diamond Match Co., The, Chicago, Ill. Matches. No. 124,823; Mar. 18; v. 260; p. 555.
- Dick, Ralph C., Newark, N. J. Pins. No. 125,899; July 8; v. 264; p. 349.
- Dickson, Warren W., Philadelphia, Pa. Remedy for nausea. No. 127,732; Dec. 2; v. 269; p. 185.
- Diem and Wing Paper Company, The, Cincinnati, Ohio. Roofing made from asphalt and wool felt. No. 125,629; June 3; v. 263; p. 161.
- Dietz, George H., Stockton, Calif. Cough-drops. No. 125,701; June 3; v. 263; p. 164.
- Dilks, Walter H., Philadelphia, Pa. Certain named clothing for men, women, and misses. No. 125,900; July 8; v. 264; p. 349.
- Dilling & Co., Indianapolis, Ind. Caramels. No. 127,022; Oct. 21; v. 267; p. 478.
- Dillow, Guy G., St. Louis, Mo. Preparation for the treatment of headache, backache, &c. No. 127,598; Nov. 18; v. 268; p. 557.
- Dinovo, Agostino, South Chicago, Ill. Preparation for the treatment of certain named ailments. No. 125,207; Apr. 22; v. 261; p. 795.
- Dismuke, Ed. E., Mineral Wells, Tex. Mineral water. No. 127,599; Nov. 18; v. 268; p. 558.
- Dixie Corn Products Company, Spokane, Wash. Corn-meal. No. 126,839; Oct. 7; v. 267; p. 177.
- Dixie Phonograph Company, High Point, N. C. Talking-machines, sound-boxes, and record-ejectors. No. 127,600; Nov. 18; v. 268; p. 558.
- Dixie Refining Co., Memphis, Tenn. Vegetable shortening. No. 124,233; Jan. 28; v. 258; p. 809.
- Dixon, Esther, St. Louis, Mo. Hair-tonic. No. 126,667; Sept. 30; v. 266; p. 734.
- Dixon Tool Co., Inc., New York, N. Y. Axes, saws, hammers. No. 125,418; May 20; v. 262; p. 474.
- Djorup, Frants, Chicago, Ill. Hardening material used in the mix for cement and concrete for walls and floors. No. 124,519; Feb. 25; v. 259; p. 771.
- Doehler Die-Casting Company, Brooklyn, N. Y. Brass castings. No. 127,023; Oct. 21; v. 267; p. 478.
- Doehler Die-Casting Company. Babbitt-lined metal bearings. No. 127,825; Dec. 9; v. 269; p. 387.
- Doermann-Roehrer Company, The, Cincinnati, Ohio. Belting, hose, and machinery packing. No. 127,921; Dec. 16; v. 269; p. 541.
- Dolcibella, Gaspare, San Francisco, Calif. Hair-tonic. No. 127,601; Nov. 18; v. 268; p. 558.
- Dollfus Mieg & Cie. Societe Anonyme, Mülhausen, Germany. Threads, yarns made of silk. Nos. 127,922-5; Dec. 16; v. 269; p. 541.
- Dollfus-Mieg & Cie. Societe Anonyme, Mülhouse, Germany. Cotton yarns. Nos. 128,046-7; Dec. 23; v. 269; p. 696.
- Domestic Mills Company, Lowell, Mass. Textile threads and yarns. No. 125,867; June 24; v. 263; p. 631.
- Domestic Sewing Machine Co., Inc., Buffalo, N. Y. Sewing-machines. No. 124,298; Feb. 4; v. 259; p. 177.
- Domestic Sewing Machine Company, Inc., Buffalo, N. Y. Sewing-machines. Nos. 124,695-6; Mar. 11; v. 260; p. 386.
- Donald Company, The, Grand Island, Nebr. Coffee. No. 124,824; Mar. 18; v. 260; p. 555.
- Donavan, Lillian V., Lexington, N. C. Coffee-percolators. No. 127,821; Dec. 9; v. 269; p. 387.
- Donegan, Daniel H., Chicago, Ill. Semisolid pad-glue for use in binding books. No. 124,231; Jan. 28; v. 258; p. 809.
- Doniger & Company, Inc., New York, N. Y. Certain named surgical instruments. No. 124,521; Feb. 25; v. 259; p. 771.
- Doniger, Jacob, Brooklyn, N. Y. Depilatory. No. 125,985; July 22; v. 264; p. 696.
- Donnell, Carman & Mudge, Boston, Mass. Finished sheepskins. No. 124,925; Mar. 25; v. 260; p. 729.
- Doory and Wallace, New York, N. Y. Silk dress goods. No. 128,048; Dec. 23; v. 269; p. 696.
- Dorfmann Bros., Corona, N. Y. Thermometers. No. 127,024; Oct. 21; v. 267; p. 478.
- Dormer Brothers Company, Cincinnati, Ohio. Men's hosiery. Nos. 127,378-9; Nov. 11; v. 268; p. 371.
- Dormand & Diaz, New York, N. Y. Perfumery. No. 127,731; Dec. 2; v. 269; p. 185.
- Dorsch, Peter M., Washington, D. C. Bread, rolls, and cakes. No. 125,726; June 10; v. 263; p. 327.
- Doster-Northington Drug Co., Birmingham, Ala. Medicinal tablets. No. 127,602; Nov. 18; v. 268; p. 558.
- Dothan Syrup Co., Dothan, Ala. Cane and corn syrup combined. No. 125,042; Apr. 8; v. 261; p. 406.
- Douthitt, Jas. W., Bedford, Ind. Remedy for the treatment of freckles, tan, &c. No. 125,986; July 22; v. 264; p. 696.
- Downie, James H., San Antonio, Tex. Impression-wax for dental use. No. 125,208; Apr. 22; v. 261; p. 795.
- Dowswell, Oscar W., Sauk Centre, Minn. Toilet cream and chap-lotion. No. 126,668; Sept. 30; v. 266; p. 734.
- Dr. Johnston Medicine Co., St. Paul, Minn. Liniments for rheumatism, sprains, &c. No. 125,294; May 6; v. 262; p. 165.
- Dr. L. D. Le Gear Medicine Co., St. Louis, Mo. Preparations for certain named ailments of horses, poultry, &c. No. 126,444; Aug. 26; v. 265; p. 629.
- Dr. T. J. Haile & Company, Fitzgerald, Ga. Preparation for influenza, colds, &c. No. 126,428; Aug. 26; v. 265; p. 628.
- Dr. T. J. King-Clarence W. King, D. D. S. Inc., Boston, Mass. Mouth-wash. No. 126,438; Aug. 26; v. 265; p. 629.
- Dr. T. J. King-Clarence W. King, D. D. S. Inc., Boston, Mass. Artificial denture. No. 126,707; Sept. 30; v. 266; p. 735.
- Dräger Oxygen Apparatus Company, New York, N. Y., and Pittsburgh, Pa. Resuscitating apparatus, apparatus to permit breathing while in a noxious atmosphere, &c. No. 125,727; June 10; v. 263; p. 327.
- Driver-Harris Company, Harrison, N. J. Certain named metals and metal castings and forgings. No. 125,630; June 3; v. 263; p. 161.
- Drinkwater, Charles M., Kokomo, Ind. Ash-sifters. No. 125,419; May 20; v. 262; p. 474.
- Druggists Sundries Company Limited., Vancouver, British Columbia, Canada. Beverages, non-alcoholic maltless. No. 125,130; Apr. 15; v. 261; p. 265.
- Dry Milk Company, The, New York, N. Y. Desiccated milk. No. 125,987; July 22; v. 264; p. 696.
- Dry Milk Company, The, New York, N. Y. Desiccated milk. Nos. 126,147-8; July 29; v. 264; p. 860.
- Dry Milk Company, New York, N. Y. Dry milk. No. 127,733; Dec. 2; v. 269; p. 186.
- Drying Systems, Incorporated, Chicago, Ill. Dehydrated food products. No. 127,603; Nov. 18; v. 268; p. 558.
- Du Pont, Auguste F. P., New York, N. Y., assignor to Du Pont Food Products Company. Concentrated vegetable soup and purée, also bouillon and consommé [tablets]. No. 127,025; Oct. 21; v. 267; p. 478.
- Dubelbeiss, Louis J., Irondequoit, N. Y. Certain named foods. No. 128,236; Dec. 30; v. 269; p. 881.
- Dublin Distillers Co. Ltd., The, Dublin, Ireland. Whisky. No. 125,801; June 17; v. 263; p. 477.
- Duboc Paper Company, Chicago, Ill. Gummed paper on which labels are to be printed. No. 125,631; June 3; v. 263; p. 161.
- Duboc Paper Company, Chicago, Ill. Certain named paper and stationery. No. 125,988; July 22; v. 264; p. 696.



*Alphabetical list of registrants of trade-marks—Continued.*

- Duenckel, Fred W., St. Louis, Mo. Ointment. No. 126,669; Sept. 30; v. 266; p. 734.
- Duerdin & Sainsbury, Melbourne, Victoria, Australia. Medicines for the relief of hay-asthma. Nos. 125,209-10; Apr. 22; v. 261; p. 795.
- Duncan, Edna G., New York, N. Y. Hair-shampoo and hair-tonic. No. 124,825; Mar. 18; v. 260; p. 555.
- Dunham Company, The, Berea, Ohio. Soil-tilling machines. No. 127,222; Oct. 28; v. 267; p. 643.
- Dunham, Plato C., Dunlap, Iowa. Twine. No. 126,525; Sept. 16; v. 266; p. 445.
- Dunham, William F., New York, N. Y. Smokers' pipes. Nos. 124,192-5; Jan. 21; v. 258; p. 641.
- Dunn, Son & Company, John, New York, N. Y. Certain named fabrics. No. 124,522; Feb. 25; v. 259; p. 771.
- Dupaul Young Optical Company, Southbridge, Mass. Frames and mountings for spectacles and eyeglasses. No. 127,381; Nov. 11; v. 268; p. 371.
- Duplicator Manufacturing Company, Chicago, Ill. Duplicating-machines. No. 125,632; June 3; v. 263; p. 161.
- Duplicator Manufacturing Company, Chicago, Ill. Duplicating-rolls for duplicating-machines. No. 127,223; Oct. 28; v. 267; p. 643.
- Duplicator Manufacturing Company, Chicago, Ill. Duplicating-machines. No. 127,224; Oct. 28; v. 267; p. 643.
- Durable Phonograph Company, Inc., The, New York, N. Y. Phonographs. No. 126,840; Oct. 7; v. 267; p. 177.
- Durkee-Atwood Co., Minneapolis, Minn. Slushing compound for protecting the surfaces of finished metal articles. No. 124,826; Mar. 18; v. 260; p. 555.
- Dutch, Marie, Calais, Me. Candy. No. 126,149; July 29; v. 264; p. 860.
- Dwelle-Kaiser Co., The, Buffalo, N. Y. Sheet or window glass. Nos. 126,526-7; Sept. 16; v. 266; p. 445.
- Dwinell-Wright Company, Boston, Mass. Coffee. No. 125,566; May 27; v. 262; p. 643.
- Dwyer, Joseph F., Seattle, Wash. Ticket-dispensing machines. Nos. 127,056-8; Oct. 21; v. 267; p. 478.
- Dyene Chemical Co., Baltimore, Md. Dye for coating straw hats, &c. No. 126,411; Aug. 26; v. 265; p. 628.
- E. Clarke Company, Baltimore, Md. Peanut-oil. No. 125,623; June 3; v. 263; p. 161.
- E. Greenfield's Sons, Brooklyn and New York, N. Y. Chocolate candies. No. 126,426; Aug. 26; v. 265; p. 628.
- E. Hayes, Inc., New York, N. Y. Men's, women's, and children's shoes, boots, and slippers. No. 127,412; Nov. 11; v. 268; p. 372.
- E. Leitz, Inc., New York, N. Y. Glass slides in microscopic work. No. 125,823; June 17; v. 263; p. 478.
- E. Myers Lye Company, St. Louis, Mo. Lye. No. 127,644; Nov. 18; v. 268; p. 559.
- E. Popper & Co. Inc., New York, N. Y. Cigars. No. 125,580; May 27; v. 262; p. 643.
- E. Rosenfeld & Company, Baltimore, Md. Night-shirts, nightgowns, pajamas. No. 126,069; July 22; v. 264; p. 698.
- E. A. Robertson Co., Saginaw, Mich. Silk waists, skirts, and dresses, cotton-voile waists and dresses. No. 125,308; May 6; v. 262; p. 165.
- E. E. Lloyd Paper Co., Chicago, Ill. Safety-paper. Nos. 124,739-40; Mar. 11; v. 260; p. 388.
- E. E. Taylor Company, Boston, Mass. Men's and women's leather boots and shoes. No. 126,096; July 22; v. 264; p. 699.
- E. F. Houghton & Co., Philadelphia, Pa. Trade paper. No. 124,386; Feb. 11; v. 259; p. 380.
- E. F. Houghton & Co., Philadelphia, Pa. Trade magazine published monthly. No. 124,540; Feb. 25; v. 259; p. 772.
- E. I. du Pont de Nemours & Company, Wilmington, Del. Ready-mixed paints. No. 126,670; Sept. 30; v. 266; p. 734.
- E. I. Horsman Co., New York, N. Y. Dolls. No. 124,539; Feb. 25; v. 259; p. 772.
- E. J. Brach & Sons, Chicago, Ill. Hard candies. No. 126,254; Aug. 19; v. 265; p. 451.
- E. J. Brach & Sons, Chicago, Ill. Hard candies. No. 126,390; Aug. 26; v. 265; p. 627.
- E. J. Brach & Sons, Chicago, Ill. Hard candies. No. 126,823; Oct. 7; v. 267; p. 177.
- E. L. Patch Company, The, Stoneham, Mass. House organ published monthly. No. 124,576; Feb. 25; v. 259; p. 773.
- E. M. Schwarz & Co., Inc., New York, N. Y. Cigars, cheroots, and little cigars. No. 126,345; Aug. 19; v. 265; p. 454.
- E. P. Mesthene & Co., Inc., New York, N. Y. Cigarettes. No. 125,158; Apr. 15; v. 261; p. 626.
- E. T. Burrowes Company, The, Portland, Me. Window-screens. No. 124,292; Feb. 4; v. 259; p. 177.
- E. T. Chapin Co., Spokane, Wash. Red-cedar fence-posts. No. 127,352; Nov. 11; v. 268; p. 370.
- E. W. Carpenter Manufacturing Co., The, Bridgeport, Conn. Safety-razors. No. 127,007; Oct. 21; v. 267.
- E-Z-Fit Artificial Limb Co., Inc., New York, N. Y. Artificial limbs and parts thereof. No. 124,839; Mar. 18; v. 260; p. 556.
- E. & Z. Van Raalte, New York, N. Y. Veils and veiling. No. 126,585; Sept. 16; v. 266; p. 447.
- Eagle Discount Stamp Co., St. Louis, Mo. Trading or discount stamps and coupons. Nos. 124,376-7; Feb. 11; v. 259; p. 379.
- Eagle Garter Company, New York, N. Y. Armbands. No. 125,131; Apr. 15; v. 261; p. 265.
- Eagle Pencil Company, New York, N. Y. Lead-pencils, penholders, &c. No. 126,269; Aug. 19; v. 265; p. 452.
- Earley, Alice W., Los Angeles, Calif. Hand-creams, face-powders, hair-remover, enamel. No. 126,619; Sept. 30; v. 266; p. 733.
- Early Day Co., Kansas City, Kans. Eye preparation. No. 126,841; Oct. 7; v. 267; p. 177.
- East Whittier Citrus Ass'n, East Whittier, Calif. Fresh citrus fruits. Nos. 126,671-2; Sept. 30; v. 266; p. 734.
- East Whittier Citrus Ass'n, East Whittier, Calif. Fresh citrus fruits. No. 127,604; Nov. 18; v. 268; p. 558.
- East Whittier Citrus Ass'n, East Whittier, Calif. Fresh citrus fruits. No. 128,229; Dec. 30; v. 269; p. 881.
- Eastern Finishing Works, Inc., Kenyon, R. I. Waterproof textile fabrics. No. 127,225; Oct. 28; v. 267; p. 643.
- Eastern Finishing Works, Inc., Kenyon, R. I. Waterproof textile fabrics. No. 127,734; Dec. 2; v. 269; p. 186.
- Eastern Luminous Indicator Co. Inc., Waltham, Mass. Radium luminous buttons. No. 125,901; July 8; v. 264; p. 349.
- Eastern Luminous Indicator Co., Inc., Waltham, Mass. Luminous push-button locators. No. 127,226; Oct. 28; v. 267; p. 643.
- Eastern Manufacturing Company, South Brewer, Me. Writing-paper. No. 124,378; Feb. 11; v. 259; p. 379.
- Eastern Manufacturing Company, Bangor, Me. Bond and writing papers. No. 126,270; Aug. 19; v. 265; p. 452.
- Eastern Manufacturing Company, Bangor, Me. Writing and printing paper and cardboard. No. 126,673; Sept. 30; v. 266; p. 734.
- Eastern Manufacturing Company, Bangor, Me. Printing paper and cardboard. No. 127,227; Oct. 28; v. 267; p. 643.
- Eastern Production Company, Detroit, Mich. Hydraulic presses and pumps, &c. No. 127,228; Oct. 28; v. 267; p. 643.
- Eastland Studios, Philadelphia, Pa.; Baltimore, Md.; Wilmington, Del., and Washington, D. C. Photographs and framed and unframed pictures. No. 125,990; July 22; v. 264; p. 696.
- Eastman Kodak Company, Rochester, N. Y. Certain named photographic supplies and accessories. Nos. 124,299-300; Feb. 4; v. 259; p. 177.
- Eastman Kodak Co., Rochester, N. Y. Photographic-printing frames. No. 127,029; Oct. 21; v. 267; p. 478.
- Eaton, Elmer W., Nashua, N. H. Baggage-strap for automobiles. No. 124,234; Jan. 28; v. 258; p. 809.
- Eclairissant Beautifier Company, Seattle, Wash. Cold and massage creams, face lotion and powder, rouges. No. 125,420; May 20; v. 262; p. 474.
- Eclipse Manufacturing Co., Hope, Ark. Harrows. No. 127,826; Dec. 9; v. 269; p. 387.
- Eclipse Milling Company, Inc., Graham, Va. Cornmeal. No. 124,697; Mar. 11; v. 260; p. 386.
- Ed. S. Vail Butterine Co., Chicago, Ill. Oleomargarin. No. 126,800; Sept. 30; v. 266; p. 738.
- Edgar-Morgan Company, Memphis, Tenn. Stock feed. No. 125,633; June 3; v. 263; p. 162.
- Edgar T. Ward's Sons Company, Boston, Mass. Iron and steel bars. No. 125,006; Apr. 1; v. 261; p. 199.
- Edible Oil Co., Incorporated, Louisville, Ky. Vegetable shortening. No. 126,271; Aug. 19; v. 265; p. 452.
- Edison Portland Cement Company, The, West Orange, N. J. Portland cement. Nos. 126,150-1; July 29; v. 264; p. 860.
- Edison, Thomas A., Jr., Orange, N. J. Devices to be attached to the carburetors of internal combustion engines. No. 128,050; Dec. 23; v. 269; p. 696.
- Edmonds Shoe Company, Milwaukee, Wis. Leather shoes. No. 127,822; Dec. 9; v. 269; p. 387.
- Edson Bros., Philadelphia, Pa. Italian-type and other cheese. No. 125,334; May 13; v. 262; p. 309.
- Educational Motion Picture Machine and Film Company, St. Louis, Mo. Motion-picture-projecting machines and parts thereof. Nos. 127,030-1; Oct. 21; v. 267; p. 478.
- Edward McConnell & Co., New York, N. Y. Flannel piece goods. No. 127,240; v. 267; p. 644.
- Edward P. Stahel & Co., New York, N. Y. Woolen piece goods. No. 127,991; Dec. 16; v. 269; p. 543.
- Edward R. Ladew Company, Inc., Glen Cove, N. Y. Leather belting. No. 127,072; Oct. 21; v. 267; p. 480.
- Edward R. Ladew Company, Inc., Glen Cove, N. Y. Leather belting. Nos. 128,092-3; Dec. 23; v. 269; p. 697.
- Edward T. Fleming & Sons, Philadelphia, Pa. Trade magazine. No. 127,042; Oct. 21; v. 267; p. 479.
- Egnatoff, George L., St. Andrews, Wash. Leather-preserved. No. 124,087; Jan. 14; v. 258; p. 443.
- Eha, Clifford F., Cincinnati, Ohio. Internal preparation for colds, pains in the head, heart, stomach, &c., caused by colds. No. 124,379; Feb. 11; v. 259; p. 379.
- Ehrlich, Nicholas, New York, N. Y. Cigars. No. 124,235; Jan. 28; v. 258; p. 809.
- Eichardt, Charles F., Dormont, Pa. Medicated tablets. No. 124,523; Feb. 25; v. 259; p. 771.



- Eisemann Magneto Company, Brooklyn, N. Y. Magnetos, spark-coils, and electrical-impulse starters for internal-combustion engines. No. 126,814; Sept. 30; v. 266; p. 739.
- Eisenberg, Meyer, Atlanta, Ga. Non-alcoholic maltless beverage. No. 125,869; June 24; v. 263; p. 631.
- Eisenstadt Manufacturing Company, St. Louis, Mo. Service, scarf, bar, and brooch pins, fobs, &c. No. 125,421; May 20; v. 262; p. 474.
- Eisenstadt Manufacturing Company, St. Louis, Mo. Wrist-rosaries. No. 128,051; Dec. 23; v. 269; p. 696.
- Ekenberg Company, Cortland, N. Y. Self-rising pancake and mixed flours. No. 127,273; Nov. 4; v. 268; p. 187.
- Elbe File & Binder Company, New York, N. Y. Loose-leaf binders. No. 126,674; Sept. 30; v. 266; p. 734.
- Elberfeld Chemical & Mfg. Co., Sandwich, Mass. Cleansing compound for bath-tubs, tinware, &c. No. 125,132; Apr. 15; v. 261; p. 265.
- Elbinger Shoe Mfg. Co., The, Lebanon, Ohio. Shoes made of leather, canvas, and a combination of both. No. 124,524; Feb. 25; v. 259; p. 771.
- Elder, Mabel F., St. Louis, Mo. Face-creams. No. 126,412; Aug. 26; v. 265; p. 628.
- Elder Manufacturing Co., St. Louis, Mo. Certain named clothing. No. 126,413; Aug. 26; v. 265; p. 628.
- Elder Manufacturing Company, St. Louis, Mo. Dress, work, and nightshirts, pajamas, neckties, &c. No. 127,382; Nov. 11; v. 268; p. 371.
- Elder Manufacturing Co., St. Louis, Mo. Boys' and children's clothing, sweaters, stockings, &c. No. 128,052; Dec. 23; v. 269; p. 696.
- Ele-Kem Company, Chicago, Ill. Photographic chemical. No. 126,675; Sept. 30; v. 266; p. 734.
- Elec-Mi Manufacturing Co., Bloomfield, Nebr. Electric mail-indicators. No. 124,698; Mar. 11; v. 260; p. 386.
- Electric Mfg. Co., The, San Francisco, Cal. Electric driers and blowers. No. 124,301; Feb. 4; v. 259; p. 177.
- Electric Phonograph Corporation, New York, N. Y. Phonograph-records. No. 124,088; Jan. 14; v. 258; p. 443.
- Elemes, William, Elyria, Ohio. Paint for graining. No. 128,053; Dec. 23; v. 269; p. 696.
- Elevator Locks Co., Peoria, Ill. Mechanically-operated machinery. No. 126,528; Sept. 16; v. 266; p. 445.
- Eli Lilly and Company, Indianapolis, Ind. Acetylsalicylic acid preparations. No. 126,676; Sept. 30; v. 266; p. 734.
- Elizabeth City Hosiery Co., Elizabeth City, N. C. Hosiery for men, women, and children. No. 128,054; Dec. 23; v. 269; p. 696.
- Elizabeth City Hosiery Co., Elizabeth City, N. C. Men's women's, or childrens hosiery. No. 128,055; Dec. 23; v. 269; p. 696.
- Ellis Walker Manufacturing Company, Sioux City, Iowa. Preparations for treatment of the hair and scalp. No. 127,298; Nov. 4; v. 268; p. 188.
- Ellenbogen, Mangold H., Paterson, N. J. Shirts, pajamas, flat underwear, &c. No. 127,383; Nov. 11; v. 268; p. 371.
- Elliott, Clinton, New York, N. Y. Candies. No. 125,133; Apr. 15; v. 261; p. 265.
- Elliott, Clinton, New York, N. Y. Certain named receptacles for food products. No. 126,272; Aug. 19; v. 265; p. 452.
- Elliott, Clinton, New York, N. Y. Candies. No. 127,032; Oct. 21; v. 267; p. 478.
- Ellis Grove Milling Company, Ellis Grove, Ill. Wheat-flour. No. 127,384; Nov. 11; v. 268; p. 371.
- Ellis Grove Milling Company, Ellis Grove, Ill. Wheat-flour. No. 127,605; Nov. 18; v. 268; p. 558.
- Elmer Candy Company, Inc., New Orleans, La. Candy. No. 125,933; July 15; v. 264; p. 531.
- Elmer Candy Company, Inc., New Orleans, La. Candy. No. 128,842; Oct. 7; v. 267; p. 177.
- Elmer Candy Company, Inc., New Orleans, La. Candy. No. 127,033; Oct. 21; v. 267; p. 478.
- Ellosser-Heynemann Co., San Francisco, Calif. Overalls and work-clothes. No. 124,832; Mar. 18; v. 260; p. 555.
- Elpis Confectionery Co., New York, N. Y. Candy. No. 125,868; June 24; v. 263; p. 631.
- Elvyn, Jacob W., Chicago, Ill. Toy cut-outs and blocks. No. 124,445; Feb. 18; v. 259; p. 571.
- Elwell-Parker Electric Company, The, Cleveland, Ohio. Automobile-trucks. No. 124,447; Feb. 18; v. 259; p. 571.
- Ely & Walker D. G. Co., St. Louis, Mo. Certain named knitted, netted, and textile fabrics. No. 124,962; Apr. 1; v. 261; p. 197.
- Ely & Walker Dry Goods Company, St. Louis, Mo. Cotton goods, sheetings, &c. No. 128,056; Dec. 23; v. 269; p. 696.
- Elysee Olive Oil Co., New York, N. Y. Edible olive-oil substitutes. No. 124,236; Jan. 28; v. 258; p. 809.
- Elzinga, William T., Mill Valley, Calif. Dental-floss holders. No. 125,212; Apr. 22; v. 261; p. 795.
- Emco Manufacturing Company, Inc., Binghamton, N. Y. Muffler cut-outs. No. 127,035; Oct. 21; v. 267; p. 478.
- Emery Heel Sales Company, Boston, Mass. Taps for boots and shoes. No. 125,802; June 17; v. 263; p. 477.
- Emmolo Bros., Cloverdale, Calif. Tomato paste. No. 125,134; Apr. 15; v. 261; p. 265.
- Empire Bottling Works, El Paso, Tex. Non-intoxicating non-alcoholic beverage. No. 127,606; Nov. 18; v. 268; p. 558.
- Empire Cream Separator Company, Bloomfield, N. J. Milking-machines and milking-machine systems and parts thereof. No. 125,213; Apr. 22; v. 261; p. 795.
- Empire Milling Company, Minneapolis, Minn. Wheat-flour. No. 124,836; Mar. 18; v. 260; p. 555.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. Nos. 125,803-4; June 17; v. 263; p. 477.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. Nos. 125,991-126,000; July 22; v. 264; p. 696.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. Nos. 126,529-34; Sept. 16; v. 266; p. 445.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 126,843; Oct. 7; v. 267; p. 177.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 127,823; Dec. 9; v. 269; p. 387.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. Nos. 127,928-30; Dec. 16; v. 269; p. 542.
- Ems-Block Corporation, Chicago, Ill. Liquid corn and callus remedy. No. 128,057; Dec. 23; v. 269; p. 696.
- Engel Aircraft Company, The, Niles, Ohio. Aeroplanes and flying-boats. No. 125,902; July 8; v. 264; p. 349.
- Engineering Magazine Company, The, New York, N. Y. Monthly periodicals. No. 125,635; June 3; v. 263; p. 162.
- Engineering Magazine Company, The, New York, N. Y. Certain named prints and publications. No. 126,228; Aug. 5; v. 265; p. 141.
- Engineering Magazine Company, New York, N. Y. Printed books and periodicals. No. 127,827; Dec. 9; v. 269; p. 387.
- Enid Milling Company, Enid, Okla. Wheat-flour. No. 124,926; Mar. 25; v. 260; p. 729.
- Ennis-Hanly-Blackburn Coffee Co., Kansas City, Mo. Baking-powder. No. 127,737; Dec. 2; v. 269; p. 186.
- Ensley, Clarence E., Moulton, Iowa. Worm-salts for live stock and poultry. No. 127,385; Nov. 11; v. 268; p. 371.
- Enterkine, Bertha E., Birmingham, Ala. Preparation for a medicinal tonic for the treatment of stomach troubles, &c. No. 127,738; Dec. 2; v. 269; p. 186.
- Enterprise Chemical Co., St. Louis, Mo. Certain named toilet preparations. No. 126,152; July 29; v. 264; p. 860.
- Ercole Marelli & Co., Milan, Italy. Electric oscillating fans. Nos. 125,075-6; Apr. 8; v. 261; p. 407.
- Ercole Marelli & Co., Milan, Italy. Electric oscillating fans. No. 126,037; July 22; v. 264; p. 697.
- Erickson Andrew Co., Los Angeles, Calif. Shoe-polishing machines. No. 127,038; Oct. 21; v. 267; p. 478.
- Erickson, Charles A., Chicago, Ill. Combination check holders and punches for use in restaurants and the like. No. 127,386; Nov. 11; v. 268; p. 371.
- Erie Cold Storage Co., Sandusky, Ohio. Oleomargarin. No. 127,274; Nov. 4; v. 268; p. 187.
- Errickson, Helmer E., Chicago, Ill. Rubber patches. No. 128,059; Dec. 23; v. 269; p. 696.
- Erwa Chemical Manufacturing Company, Needham, Mass. Waterproof compound for leather. No. 124,700; Mar. 11; v. 260; p. 386.
- Erwa Chemical Manufacturing Company, Needham, Mass. Waterproof compound for cloth. No. 126,414; Aug. 26; v. 265; p. 628.
- Esda Manufacturing Company, New York, N. Y. Gas water-heaters, furnaces, &c. No. 127,387; Nov. 11; v. 268; p. 371.
- Eskimo Knitting Mills, Philadelphia, Pa. Cardigan jackets. No. 124,837; Mar. 18; v. 260; p. 555.
- Essandee Corporation, Chicago, Ill. Complete self-contained electric-power-generating and electric-lighting systems. No. 127,608; Nov. 18; v. 268; p. 558.
- Essex Foundry, Newark, N. J. Pipe-fittings. No. 126,677; Sept. 30; v. 266; p. 734.
- Essex Motors, Detroit, Mich. Automobiles. No. 126,596; Sept. 23; v. 266; p. 593.
- Essex Rubber Company, Trenton, N. J. Rubber and composition soles and heels. No. 127,388; Nov. 11; v. 268; p. 371.
- Esterline Company, The, Indianapolis, Ind. Permanent magnets. No. 126,273; Aug. 19; v. 265; p. 452.
- Estes Lumber Co., Birmingham, Ala. Lumber, shingles, composition roofing, lime. No. 126,934; Oct. 14; v. 267; p. 335.
- Etna Chemical Company, New York, N. Y. Antipyretic and Analgisee medical preparation. No. 127,039; Oct. 21; v. 267; p. 478.
- Eugene Suter & Company, New York, N. Y. Dyes. No. 125,849; June 17; v. 263; p. 479.
- Eureka Fire Hose Manufacturing Company, New York, N. Y. Hose made of rubber, &c. No. 127,931; Dec. 16; v. 269; p. 542.
- Evan W. Hook & Co., Inc., Baltimore, Md. Certain named canned or preserved foods. No. 126,290; Aug. 19; v. 265; p. 452.



## Alphabetical list of registrants of trade-marks—Continued.

- Evans Stamping & Plating Co., Taunton, Mass. Transmission-gearing for internal-combustion engines and clutches. No. 124,446; Feb. 18; v. 259; p. 571.
- Everette R. Peacock Co., Chicago, Ill. Onion-sets, garden-seeds, bulbs, and plants. No. 125,671; June 3; v. 263; p. 163.
- Excello Tire & Rubber Co., Philadelphia, Pa. Rubber tires and inner tubes for tires. No. 127,932; Dec. 16; v. 269; p. 542.
- Excelsior Leather Washer Manufacturing Co., Rockford, Ill. Pump and valve leathers, leather washers and gaskets. No. 126,536; Sept. 16; v. 266; p. 445.
- Excelsior Motor Mfg. and Supply Co., Chicago, Ill. Motor-cycles and bicycles. Nos. 125,637-8; June 3; v. 263; p. 162.
- Eye Brand Confectionery Inc., Brooklyn, N. Y. Candies. No. 125,870; June 24; v. 263; p. 631.
- Ezekiel Brothers, New York, N. Y. Dyes. No. 125,422; May 20; v. 262; p. 474.
- F. Fairbanks & Co., Chicago, Ill. Non-alcoholic beverages. No. 127,181; Oct. 21; v. 267; p. 483.
- F. Mayer Boot & Shoe Co., Milwaukee, Wis. Leather boots and shoes. No. 127,288; Nov. 4; v. 268; p. 188.
- F. Meyer & Bro. Co., Peoria, Ill. Tin furnace-pipes. No. 125,353; May 13; v. 262; p. 310.
- F. E. Royston & Company, Inc., Aurora, Ill. Rolled oats, dried codfish, rice, &c. No. 126,896; Oct. 7; v. 267; p. 179.
- F. R. X Manufacturing Company, The, Norwalk, Ohio. Mechanical fire-extinguishers. No. 126,537; Sept. 16; v. 266; p. 446.
- F. W. Bolgiano & Company, Inc., Washington, D. C. Vegetable, garden, and field seeds. No. 125,863; June 24; v. 263; p. 631.
- F. W. Hampshire & Co. Ltd., Derby, England. Emollient tablets for treatment of the skin. No. 125,809; June 17; v. 263; p. 478.
- F. W. Tunnell & Company, Inc., Philadelphia, Pa. Compound for coloring rubber, and a rubber preservative. No. 124,423; Feb. 11; v. 259; p. 381.
- F. W. Woolworth Co., Watertown and New York, N. Y. Writing paper, pads, and tablets, envelops, &c. No. 128,209; Dec. 23; v. 269; p. 701.
- Fabritex Co. Inc., New York, N. Y. Cotton piece goods. No. 124,963; Apr. 1; v. 261; p. 197.
- Fagley, Oliver M., Philadelphia, Pa. Heating vessels for preserving and canning fruits, &c. No. 126,153; July 29; v. 264; p. 860.
- Fairbanks, Joseph S., Stamford, Conn. Chemical fire-extinguisher. No. 127,828; Dec. 9; v. 269; p. 387.
- Fairbanks, Morse & Co., Chicago, Ill. Tractors. No. 124,302; Feb. 4; v. 259; p. 177.
- Fairbanks, Morse & Co., Chicago, Ill. Concrete barrel mixer. No. 124,701; Mar. 11; v. 260; p. 386.
- Fairbanks, Morse & Co., Chicago, Ill. Diesel marine engines. Nos. 128,060-1; Dec. 23; v. 269; pp. 696-7.
- Fairfax Textile Mills, Inc., New York, N. Y. Textile goods for underwear. No. 125,728; June 10; v. 263; p. 327.
- Fairmont Mining Machinery Company, Fairmont, W. Va. Strainers used in water distribution. No. 127,829; Dec. 9; v. 269; p. 387.
- Falls City Mills Co., Louisville, Ky. Hosiery. No. 125,043; Apr. 8; v. 261; p. 406.
- Falls Motors Corporation, Sheboygan Falls, Wis. Internal-combustion engines. No. 124,702; Mar. 11; v. 260; p. 386.
- Falstrom & Tornquist Co., Passaic, N. J. Roof-ventilators and tin fire-doors. No. 125,871; June 24; v. 263; p. 631.
- Fanny Farmer Candy Shops, Inc., Rochester, N. Y. Candy. No. 126,844; Oct. 7; v. 267; p. 178.
- Fargo Food Products Co., Fargo, N. D. Certain named foods. No. 125,567; May 27; v. 262; p. 643.
- Farnsworth, Hoyt Co., Boston, Mass. Cotton-twill shoe-linings in the piece. No. 125,729; June 10; v. 263; p. 327.
- Farnsworth, Hoyt Company, Boston, Mass. Narrow webbing. No. 127,389; Nov. 11; v. 268; p. 371.
- Farnum, James L., Columbus, Ohio. Laxative and cathartic pill for the treatment of liver and intestinal tract. No. 127,390; Nov. 11; v. 268; p. 371.
- Farquhar, Harry D., New York, N. Y. Paste and powder used in ice-cream. No. 125,044; Apr. 8; v. 261; p. 406.
- Faultless Rubber Co., The, Ashland, Ohio. Dolls. No. 125,272; Apr. 29; v. 261; p. 953.
- Fawcett & Fawcett, Brooklyn, N. Y. Certain named dental, medical, and surgical appliances. No. 126,275; Aug. 19; v. 265; p. 452.
- Fawland Company, Inc., Richmond, Va. Insecticides, disinfectants, germicides. No. 127,229. Oct. 28; v. 267; p. 643.
- Feasel, Harry L., New York, N. Y. Automobile and furniture polish. No. 124,703; Mar. 11; v. 260; p. 386.
- Federal Biscuit Co., Everett, Mass. Ice-cream cones. No. 127,275; Nov. 4; v. 268; p. 187.
- Federal Biscuit Co., Everett, Mass. Ice-cream cones. No. 128,237; Dec. 30; v. 269; p. 881.
- Federal Button Company, Newark, N. J. Buttons. No. 125,636; June 3; v. 263; p. 162.
- Federal Condensed Milk Company, Seattle, Wash. Evaporated milk. No. 126,679; Sept. 30; v. 266; p. 735.
- Federal Rubber Company, Cudahy, Wis. Composition soles and heels. No. 125,001; July 22; v. 264; p. 696.
- Federal Rubber Company, The, Cudahy, Wis. Composition soles and heels. Nos. 126,845-6; Oct. 7; v. 267; p. 178.
- Federal Snap Fastener Corporation, New York, N. Y. Snap and packet fasteners. Nos. 124,525-6; Feb. 25; v. 259; p. 772.
- Federal Snap Fastener Corporation, New York, N. Y. Snap and packet fasteners. No. 124,704; Mar. 11; v. 260; p. 386.
- Federal Snap Fastener Corporation, New York, N. Y. Snap and packet fasteners. No. 125,423; May 20; v. 262; p. 474.
- Federal Snap Fastener Corporation, New York, N. Y. Snap and packet fasteners. No. 126,154; July 29; v. 264; p. 860.
- Federal Snap Fastener Corporation, New York, N. Y. Snap and packet fasteners. Nos. 126,416-18; Aug. 26; v. 265; p. 628.
- Federal Snap Fastener Corporation, New York, N. Y. Snap-fasteners and packet-fasteners. No. 127,391; Nov. 11; v. 268; p. 371.
- Federal Snap Fastener Corporation, New York, N. Y. Snap and packet fasteners. No. 128,062; Dec. 23; v. 269; p. 697.
- Federal System of Bakeries of America, Inc., Chicago, Ill. Raisins. No. 127,739; Dec. 2; v. 269; p. 186.
- Federal System of Baking Company, Oakland, Calif. Bread. No. 125,335; May 13; v. 262; p. 309.
- Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. No. 125,730; June 10; v. 263; p. 327.
- Feehery, James F., Collingdale, Pa. Compound for improving combustion of coal and coal-siftings. No. 126,155; July 29; v. 264; p. 860.
- Felsenfeld, Jack J., Brooklyn, N. Y. Precious and imitation precious stones. No. 127,040; Oct. 21; v. 267; p. 479.
- Ferdinand Strauss Inc., New York, N. Y. Toys. No. 127,992; Dec. 16; v. 269; p. 543.
- Ferrell Chemical Company, Staunton, Ind. Preparation for removing paint and varnish. No. 126,680; Sept. 30; v. 266; p. 735.
- Fessenden, Charles E., Salem, Mass. Preparation for the treatment of coal-ashes. No. 125,424; May 20; v. 262; p. 474.
- Fezzey, Chester T., Detroit, Mich. Mailing-envelops. No. 127,230; Oct. 28; v. 267; p. 643.
- Field & Gross, Inc., San Jose, Cal. Canned sardines and pilchards. No. 124,090; Jan. 14; v. 258; p. 443.
- Field, Walter M., San Francisco, Cal. Canned sardines and pilchards. No. 124,089; Jan. 14; v. 258; p. 443.
- Figall Remedy Co., St. Louis, Mo. Laxative, &c. No. 127,740; Dec. 2; v. 269; p. 186.
- Filer, Albert J., Detroit, Mich. Dyspepsia-tablets. No. 126,419; Aug. 26; v. 265; p. 628.
- Fillauer, George W., Chattanooga, Tenn. Medicines for constipation, biliousness, &c. No. 126,276; Aug. 19; v. 265; p. 452.
- Finch, Van Slyck & McConville, St. Paul, Minn. Hosiery and gloves. No. 126,002; July 22; v. 264; p. 696.
- Finch, Van Slyck & McConville, St. Paul, Minn. Certain named clothing for men, women, and children. No. 126,003; July 22; v. 264; p. 696.
- Finch, Van Slyck & McConville, St. Paul, Minn. Piece goods. No. 127,933; Dec. 16; v. 269; p. 542.
- Fine, David L., Boston, Mass. Bloomers, drawers, undershirts, petticoats. No. 125,045; Apr. 8; v. 261; p. 406.
- Finigan, Samuel P., Cleveland, Ohio. Disinfecting, soothing, and healing salve. No. 126,935; Oct. 14; v. 267; p. 335.
- Finke and Johnson, Fort Wayne, Ind. Preparation for the treatment of rheumatism and kidney disorders. No. 126,004; July 22; v. 264; p. 696.
- Firth Company Limited, The, Warrington, England. Fence-wire, wire fences, cloth, &c. No. 126,936; Oct. 14; v. 267; p. 335.
- Fisher Flouring Mills Company, Seattle, Wash. Stock feed. No. 124,448; Feb. 18; v. 259; p. 571.
- Fisher Flouring Mills Company, Seattle, Wash. Stock feed. No. 124,827; Mar. 18; v. 260; p. 555.
- Fisher Flouring Mills Company, Seattle, Wash. Dairy feed. No. 125,568; May 27; v. 262; p. 643.
- Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 127,610; Nov. 18; v. 268; p. 558.
- Fisher, Tully G., Cape Charles, Va. Non-alcoholic beverages. No. 127,182; Oct. 21; v. 267; p. 483.
- Fishermen's Canning Corporation, Monterey, Calif. Canned sardines. No. 125,425; May 20; v. 262; p. 474.
- Fisk Rubber Company, Chicopee Falls, Mass. Rubber tires. No. 128,063; Dec. 23; v. 269; p. 697.
- Fiske Brothers Refining Co., New York, N. Y. Axle-grease. No. 124,449; Feb. 18; v. 259; p. 571.
- Fiske Brothers Refining Co., New York, N. Y. Cooling preparation for use during the machining of metal. No. 125,731; June 10; v. 263; p. 327.
- Fiske Brothers Refining Co., New York, N. Y. Lanching-grease. No. 125,732; June 10; v. 263; p. 327.



- Fiske Brothers Refining Co., New York, N. Y. Lubricating oils and greases. No. 126,156; July 29; v. 264; p. 860.
- Fiske Brothers Refining Co., New York, N. Y. Launching-grease. No. 126,277; Aug. 19; v. 265; p. 452.
- Fitz Gerald, William H., Hartford, Conn. Surgical devices to compress the flesh and thereby abrade and score it. No. 125,733; June 10; v. 263; p. 327.
- Fitz-Water and Moore, Texarkana, Ark. Hair-restorer. No. 125,046; Apr. 8; v. 261; p. 406.
- Fitzgerald, Harry G., Columbus, Ohio. Preparation for the treatment of pyorrhea. No. 126,157; July 29; v. 264; p. 860.
- Fitzgerald Mfg. Company, The, Torrington, Conn. Electric-massage vibrators. No. 125,569; May 27; v. 262; p. 643.
- Fitzpatrick, Edward D., Battle Creek, Mich. Sheet-metal doors. No. 126,937; Oct. 14; v. 267; p. 335.
- Five Points Drug Co., Birmingham, Ala. Mouth-wash. No. 126,420; Aug. 26; v. 265; p. 628.
- Fleischer, Silas M., Baltimore, Md. Metal comb used for straightening human hair. No. 125,048; Apr. 8; v. 261; p. 406.
- Fleming and Company Limited, Gore, New Zealand. Flaked oats. No. 125,214; Apr. 22; v. 261; p. 795.
- Fletcher, Lyle M., Sacramento, Cal. Pile and eczema remedies. No. 124,528; Feb. 25; v. 259; p. 772.
- Flintkote Company, The, Boston, Mass. Roofing material. No. 125,805; June 17; v. 263; p. 478.
- Florence Mills, The, Forest City, N. C. Cotton piece goods. No. 124,568; Feb. 25; v. 259; p. 773.
- Flores Onanio, Dayton, Ohio. Palliative for venereal diseases and a tissue-builder. No. 125,426; May 20; v. 262; p. 474.
- Flores, Onanio, Dayton, Ohio. Emulsion for all forms of influenza, &c. No. 125,570; May 27; v. 262; p. 643.
- Flour Shine Paint & Varnish Co., St. Louis, Mo. Varnishes, japans, &c., for baking or air-drying. No. 127,830; Dec. 9; v. 269; p. 387.
- Foamite Firefoam Company, New York, N. Y. Fire-extinguishing compounds. No. 127,741; Dec. 2; v. 269; p. 186.
- Food Products Inc., Wilmington, Del., and New York, N. Y. Prepared jellies and jellied desserts. No. 124,706; Mar. 11; v. 260; p. 386.
- Ford Collieries Company, Pittsburgh, Pa., and Detroit, Mich. Bituminous coal. No. 126,538; Sept. 16; v. 266; p. 446.
- Ford, Elmer A., New York, N. Y. Automobile-polish. No. 124,707; Mar. 11; v. 260; p. 387.
- Ford Motor Company, Highland Park, Mich. Rubber tires. No. 125,702; June 3; v. 263; p. 164.
- Forest Products Chemical Company, Memphis, Tenn. Charcoal. No. 126,847; Oct. 7; v. 267; p. 178.
- Forged Products Co., Chicago, Ill. Mechanics' tools. No. 127,831; Dec. 9; v. 269; p. 388.
- Forigione, Nicolino, New York, N. Y. Massage cream. No. 125,215; Apr. 22; v. 261; p. 796.
- Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 126,158; July 29; v. 264; p. 860.
- Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 126,848; Oct. 7; v. 267; p. 178.
- Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. Nos. 127,934-40; Dec. 16; v. 269; p. 542.
- Forstmann & Huffmann Co., Passaic, N. J. Woolen piece goods. No. 128,064; Dec. 23; v. 269; p. 697.
- Fosdick Machine Tool Company, The, Cincinnati, Ohio. Radial and upright drills. No. 126,539; Sept. 16; v. 266; p. 446.
- Foster, Merriam & Company, Meriden, Conn. Drawer and furniture handles, escutcheons, &c. No. 128,065; Dec. 23; v. 269; p. 697.
- Fox Dental Supply Co., Inc., New York, N. Y. Dental metal. No. 124,091; Jan. 14; v. 258; p. 443.
- Fox River Paper Co., Appleton, Wis. Writing-paper. No. 125,135; Apr. 15; v. 261; p. 265.
- Fox River Paper Co., Appleton, Wis. Writing-paper. No. 128,238; Dec. 30; v. 269; p. 881.
- Francis H. Leggett & Co., New York, N. Y. Certain named foods. No. 124,110; Jan. 14; v. 258; p. 444.
- Francis T. Simmons & Co., Chicago, Ill. Men's, women's, and children's underwear. No. 126,082; July 22; v. 264; p. 699.
- Franco American Cigarette & Tobacco Company, Louisville, Ky. Cigarettes. No. 125,427; May 20; v. 262; p. 474.
- Franco-American Cigarette & Tobacco Co. Inc., Louisville, Ky. Tobaccos and cigarettes. No. 127,742; Dec. 2; v. 269; p. 186.
- Franco American Cigarette & Tobacco Company, Louisville, Ky. Cigarettes. No. 128,210; Dec. 23; v. 269; p. 701.
- Frank A. Weeks Mfg. Co., New York, N. Y. Calendars. No. 124,625; Feb. 25; v. 259; p. 775.
- Frank A. Weeks Manufacturing Company, New York, N. Y. Stationers' supplies. No. 126,106; July 22; v. 264; p. 700.
- Frank E. Davis Company, Gloucester, Mass. Certain named foods. No. 125,625; June 3; v. 263; p. 161.
- Frank H. Floor Corporation, Philadelphia, Pa. Chewing gum and a chewing-gum body covered with candy. No. 125,047; Apr. 8; v. 261; p. 406.
- Frank Hemingway, Inc., New York, N. Y. Dyestuffs, cattle-dip, sodium arsenate, &c. No. 127,617; Nov. 18; v. 268; p. 558.
- Frank Katz Hat Co. Inc., New York, N. Y. Men's, women's, and children's hats. No. 125,819; June 17; v. 263; p. 478.
- Frank Katz Hat Co. Inc., New York, N. Y. Men's, women's, and children's hats of cloth, felt, or straw. No. 126,437; Aug. 26; v. 265; p. 629.
- Frank, Richard, New York, N. Y. Non-alcoholic non-cereal maltless beverage sold as a soft drink. No. 127,609; Nov. 18; v. 268; p. 558.
- Frankel Specialties Corporation, New York, N. Y. Shoes, sandals, slippers, boots, &c. No. 127,397; Nov. 11; v. 268; p. 372.
- Franklin Barn Equipment Co., Monticello, Iowa. Over-head carriers. No. 127,232; Oct. 28; v. 267; p. 643.
- Franklin Clothing Mfg Co., St. Louis, Mo. Men's and boys' outer garments. No. 127,398; Nov. 11; v. 268; p. 372.
- Franklin County Creamery & Condensed Milk Company, North Bangor, N. Y. Condensed milk. No. 125,216; Apr. 22; v. 261; p. 796.
- Franklin, Daisy, Jacksonville, Fla. Hair-growing preparations. No. 127,832; Dec. 9; v. 269; p. 388.
- Franklin MacVeagh & Company. Pickles, apple-butter, mince-meat, &c. No. 125,934; July 15; v. 264; p. 531.
- Fred D. Divine Co., Utica, N. Y. Fishing-rods. No. 127,920; Dec. 16; v. 269; p. 541.
- Fred Degner, Inc., New York, N. Y. Marshmallow cream. No. 126,665; Sept. 30; v. 266; p. 734.
- Frederick Disinfectant Company, Atlanta, Ga. Floor-dressings. No. 128,066; Dec. 23; v. 269; p. 697.
- Frederick Stearns & Co., Detroit, Mich. Perfumes, talcum and face powders, &c. No. 126,787; Sept. 30; v. 266; p. 738.
- Frederick Stearns & Company, Detroit, Mich. Strengthening-tonic. No. 126,788; Sept. 30; v. 266; p. 738.
- Frederick Stearns & Co., Detroit, Mich. Dental cream, shampoo, &c. No. 126,789; Sept. 30; v. 266; p. 738.
- Fredericks, Maurice B., New York, N. Y. Athletic goods, shirts, &c. No. 126,005; July 22; v. 264; p. 696.
- Fredk. Mountford (Birmingham) Ltd., Lifford, near Birmingham, England. Milling, vertical-drilling, and tapping machines, &c. No. 126,562; Sept. 16; v. 266; p. 446.
- Freedman Bros., Corp., New York, N. Y. Ladies' capes, dresses, coats, suits. No. 127,276; Nov. 4; v. 268; p. 187.
- Freid, D., New York, N. Y. Silks and satins in the piece. No. 127,941; Dec. 16; v. 269; p. 542.
- Frenchtown Porcelain Company, Trenton, N. J. Insulation for spark-plugs. No. 124,708; Mar. 11; v. 260; p. 387.
- Friant Bros. Rubber Co., Baltimore, Md. Food-jar rubbers. No. 125,640; June 3; v. 263; p. 162.
- Friedman Bros. & Son Neckwear Company, Inc., New York, N. Y. Ties, cravats, four-in-hand and bow ties. No. 125,734; June 10; v. 263; p. 327.
- Friedman, Jean L., New York, N. Y. Toy dolls. No. 126,159; July 29; v. 264; p. 860.
- Friedman, Jean L., New York, N. Y. Toy dolls. No. 127,183; Oct. 21; v. 267; p. 483.
- Friend & Baruchson, Inc., New York, N. Y. Velvets, velveteens, &c. No. 127,942; Dec. 16; v. 269; p. 542.
- Fritts & Wiehl Company, Chattanooga, Tenn. Medicinal tonic. No. 127,043; v. 267; p. 479.
- Fuchs, George L., Brooklyn, N. Y. Certain named clothing for women. No. 124,237; Jan. 28; v. 258; p. 809.
- Fuel Briquet Company, New York, N. Y., and Trenton, N. J. Fuel-briquets. No. 126,279; Aug. 19; v. 265; p. 452.
- Fuerst & Kraemer Ltd., New Orleans, La. Candy. No. 124,303; Feb. 4; v. 259; p. 177.
- Fuld, Traube & Co., Inc., New York, N. Y. Veils and veillings. No. 125,735; June 10; v. 263; p. 327.
- Fulper Pottery Company, Flemington, N. J. Filters. No. 124,450; Feb. 18; v. 259; p. 571.
- Fulton Fire Brick Company, Fulton, Mo. Fire or refractory bricks. No. 126,683; Sept. 30; v. 266; p. 735.
- Funge, W. W., Jr., San Francisco, Calif. Section or department in newspapers and other publications. No. 125,288; May 6; v. 262; p. 165.
- Furman Farm Improvement Co., Atlanta, Ga. Fertilizers. No. 124,451; Feb. 18; v. 259; p. 571.
- Futral & Hurster, St. Louis, Mo. Hog-cholera preventive. No. 127,611; Nov. 18; v. 268; p. 558.
- G. Amsinck & Co., Inc., San Francisco, Calif. Coffee. Nos. 126,240-3; Aug. 19; v. 265; p. 451.
- G. Amsinck & Co., Inc., San Francisco, Calif. Coffee. No. 126,981; Oct. 21; v. 267; p. 477.
- G. Batcheller Hall Co., Seattle, Wash. Canned salmon. No. 124,284; Feb. 4; v. 259; p. 177.
- G. Cramer Dry Plate Company, St. Louis, Mo. Photographic dry plates and films. No. 127,366; Nov. 11; v. 268; p. 371.
- G. Siegle Company, Rosebank and New York, N. Y. Colors used in ink for printing and lithographing. No. 126,963; Oct. 14; v. 267; p. 336.
- G. Sommers & Co., St. Paul, Minn. Paints and painters' materials. No. 126,785; Sept. 30; v. 266; p. 738.



## Alphabetical list of registrants of trade-marks—Continued.

- G. Sommers & Co., St. Paul, Minn. Hosiery. No. 126,904; Oct. 7; v. 267; p. 179.
- G. A. Hosmer Company, Buffalo, N. Y. Threading-oil. No. 124,929; Mar. 25; v. 260; p. 729.
- G. A. Reuter Company, Chicago, Ill. Chocolate-coated candies. No. 126,757; Sept. 30; v. 266; p. 737.
- G. A. Reuter Company, Chicago, Ill. Candies. No. 126,758; Sept. 30; v. 266; p. 737.
- G. A. Reuter Company, Chicago, Ill. Nut-candies. No. 126,759; Sept. 30; v. 266; p. 737.
- G. A. Reuter Company, Chicago, Ill. Nut-candy. No. 127,119; Oct. 21; v. 267; p. 481.
- G. A. Reuter Company, Chicago, Ill. Nut-candies. No. 127,120; Oct. 21; v. 267; p. 481.
- G. & A. Wise, New York, N. Y. Hosiery. No. 125,319; May 6; v. 262; p. 166.
- G. C. Hanford Manufacturing Co., Syracuse, N. Y. Remedy for neuralgia, nervous headache, &c. No. 126,938; Oct. 14; v. 267; p. 335.
- G. E. Conkey Co., The, Cleveland, Ohio. Poultry remedies, disinfectants, &c. Nos. 127,594-5; Nov. 18; v. 268; p. 557.
- G. H. Dunbar & Sons, Inc., Gulfport, Miss. Canned molasses and sweet potatoes. No. 125,989; July 22; v. 264; p. 696.
- G. H. Hammond Company, The, Chicago, Ill. Canned peaches, plums, apricots, pineapples. No. 126,286; Aug. 19; v. 265; p. 452.
- G. S. Nicholas & Son, Ltd., New York, N. Y. Whisky. No. 126,326; Aug. 19; v. 265; p. 454.
- G. T. Wofford Oil Co., The, Birmingham, Ala. Gasolene. No. 124,431; Feb. 11; v. 259; p. 381.
- G. W. Carnrick Co., New York, N. Y. Ampuls made of glass. No. 124,673; Mar. 11; v. 260; p. 385.
- G. W. Carnrick Co., New York, N. Y. Pluriglandular tonic. No. 126,650; Sept. 30; v. 266; p. 734.
- G. W. Hume Co., San Francisco, Cal. Canned salmon. No. 124,457; Feb. 18; v. 259; p. 571.
- G. W. Hume Company, San Francisco, Calif. Canned tomatoes with purée from trimmings. No. 124,835; Mar. 18; v. 260; p. 555.
- G. W. Hume Company, San Francisco, Calif. Dried prunes. No. 127,062; Oct. 21; v. 267; p. 470.
- Gaffney, James C., New York, N. Y. Playing-cards. Nos. 126,280-2; Aug. 19; v. 265; p. 452.
- Gagnon, William C., Huron, S. D. Peanut-bar. No. 125,428; May 20; v. 262; p. 474.
- Gagnon, William C., Huron, S. D. Wrapped candy. No. 128,067; Dec. 23; v. 269; p. 697.
- Gaines, Clarence M., Bowling Green, Ky. General tonic and system-purifier. No. 126,283; Aug. 19; v. 265; p. 452.
- Gallaudet Aircraft Corporation, East Greenwich, R. I. Airplanes. No. 127,400; Nov. 11; v. 268; p. 372.
- Galyen, Charles R., Novinger, Mo. Waterproof cement for use on roofs, gutters, and the like. No. 124,529; Feb. 25; v. 259; p. 772.
- Garcia Miranda Cigar Co. Inc., New York, N. Y. Cigars. No. 127,943; Dec. 16; v. 269; p. 542.
- Gardella, John H., Milford, Mass. Laxative. No. 128,068; Dec. 23; v. 269; p. 697.
- Gardner-Bryan Company, The, Cleveland, Ohio. Metal-working taps and dies. No. 127,233; Oct. 28; v. 267; p. 643.
- Garhart Dental Specialty Company, Cambridge, Mass. Filling for teeth. No. 124,840; Mar. 18; v. 260; p. 556.
- Garland Co., The, Cleveland, Ohio. Glazing compounds and cements. No. 127,944; Dec. 16; v. 269; p. 542.
- Garrett and Company, Incorporated, Penn Yan, N. Y. Sparkling wines. No. 124,530; Feb. 25; v. 259; p. 772.
- Garrett and Company, Incorporated, Penn Yan, N. Y. Beverages made from the juice of grapes, &c. Nos. 125,429-30; May 20; v. 262; p. 474.
- Gates Rubber Company, Denver, Colo. Belts. No. 127,044; Oct. 21; v. 267; p. 479.
- Gates, William, Norfolk, Va. Candy cough-drops. No. 126,160; July 29; v. 264; p. 860.
- Gates, William, Norfolk, Va. Candy cough-drops. No. 126,421; Aug. 26; v. 265; p. 628.
- Gateway, James E., St. Louis, Mo. Monthly publication. No. 125,136; Apr. 15; v. 261; p. 265.
- Gavalla & Barpar, New York, N. Y. Winter-pressed cotton-seed salad-oil. No. 125,641; June 3; v. 263; p. 162.
- Gay, Byron, Brooklyn, assignor to New York Feature Syndicate Corporation, New York, N. Y. Serial comic songs with cartoon illustrations. No. 124,093; Jan. 14; v. 258; p. 443.
- Gay, Byron, assignor to New York Feature Syndicate Corporation, New York, N. Y. Serial comic songs with cartoon illustrations. No. 124,380; Feb. 11; v. 259; p. 379.
- Gaylord Stores Company, The, Cleveland, Ohio. Men's suits, overcoats, neckties, shirts, hats. No. 124,238; Jan. 28; v. 258; p. 809.
- Genatosan, Limited, London, England. Medicines used as remedies for colds, influenza, headaches, &c. No. 127,277; Nov. 4; v. 268; p. 187.
- General Appraisal Company, Seattle, Wash. Periodical published monthly. No. 126,006; July 22; v. 264; p. 696.
- General Chemical Company, New York, N. Y. Cattle-dip. No. 126,684; Sept. 30; v. 266; p. 735.
- General Cigar Co. Inc., New York, N. Y. Cigars. No. 125,431; May 20; v. 262; p. 474.
- General Cigar Co. Inc., New York, N. Y. Cigars. No. 125,571; May 27; v. 262; p. 643.
- General Cigar Co. Inc., New York, N. Y. Cigars, little cigars, cheroots, cigarettes. No. 126,161; July 29; v. 264; p. 860.
- General Electric Company, Schenectady, N. Y. Vacuum-tube discharge devices. No. 126,162; July 29; v. 264; p. 860.
- General Gas Electric Co., Hanover, Pa. Electric light and power generating plants and parts thereof. No. 127,402; Nov. 11; v. 268; p. 372.
- General Insulating & Manufacturing Company, St. Louis, Mo., and Alexandria, Ind. Heat and cold insulation materials. No. 125,806; June 17; v. 263; p. 478.
- General Ordnance Company, Derby, Conn. Tractors and tractor parts. No. 127,834; Dec. 9; v. 269; p. 388.
- General Tire & Rubber Company, Akron, Ohio. Rubber-tire casings. No. 128,069; Dec. 23; v. 269; p. 697.
- Geneva Cutlery Corporation, Geneva, N. Y. Razors. No. 127,403; Nov. 11; v. 268; p. 372.
- Geneva Tractor Company, The, Geneva, Ohio. Certain named attachments for converting automobiles into tractors and parts thereof. No. 126,422; Aug. 26; v. 265; p. 628.
- Geo. C. Bagley Elevator Co., Minneapolis, Minn., and Selby and Glenham, S. D. Wheat, rye, and barley flour. No. 124,363; Feb. 11; v. 259; p. 379.
- Geo. F. Minto & Co., Inc., Detroit, Mich. Work dress, and negligée shirts, overalls, coats, &c. No. 125,279; Apr. 29; v. 261; p. 953.
- Geo. Fox & Co. Inc., New York, N. Y. Men's shirts and underwear. No. 127,395; Nov. 11; v. 268; p. 371.
- Geo. H. Bowman Co., Cleveland, Ohio. Certain named aluminum utensils. No. 124,288; Feb. 4; v. 259; p. 177.
- Geo. Haiss Mfg. Co. Inc., New York, N. Y. Wagon-loaders of the elevator type. No. 127,839; Dec. 9; v. 269; p. 388.
- Geo. R. Gibson Company, New York, N. Y. Certain named toilet-brushes. No. 124,239; Jan. 28; v. 258; p. 810.
- Geo. R. Gibson Co., New York, N. Y. Hair, nail, tooth, hat, &c. brushes. No. 127,404; Nov. 11; v. 268; p. 372.
- Geo. Rahmann & Co., New York, N. Y. Leather belting. No. 126,064; July 22; v. 264; p. 698.
- Geo. W. Puck & Son, Inc., Syracuse, N. Y. Wall-plaster. No. 125,670; June 3; v. 263; p. 163.
- George Borgfeldt & Co., New York, N. Y. Soaps. No. 124,286; Feb. 4; v. 259; p. 177.
- George Borgfeldt & Co., New York, N. Y. Brushes with handles and backs of pyroxylin. No. 125,611; June 3; v. 263; p. 161.
- George E. Thompson Lightning Rod Co., Inc., The, Owatonna, Minn. Lightning-rods. No. 126,584; Sept. 16; v. 266; p. 447.
- George H. Morrill Company, Norwood, Mass. Inks, ink-driers, &c. No. 124,123; Jan. 14; v. 258; p. 444.
- George Mortimer & Company, Incorporated, Boston, Mass. Ointment for certain named ailments. No. 125,300; May 6; v. 262; p. 165.
- George R. Gibson Company, New York, N. Y. Toilet-brushes. No. 124,240; Jan. 28; v. 258; p. 810.
- George R. Gibson Company, New York, N. Y. Toilet-brushes. No. 128,071; Dec. 23; v. 269; p. 697.
- George R. Newell & Co., Minneapolis, Minn. Food products. No. 127,458; Nov. 11; v. 268; p. 373.
- George W. Blabon Company, Philadelphia, Pa. Imitation linoleum. No. 127,812; Dec. 9; v. 269; p. 387.
- George W. Eno Rubber Co., Los Angeles, Calif. Fabric coverings for rubber tires. No. 128,058; Dec. 23; v. 269; p. 696.
- George Zucker Company, The, Newark, N. J. Ruffing compounds. No. 125,546; May 20; v. 262; p. 478.
- Gernert, Chas. H., Bridgeport, Conn. Sales-cards for use on groceries, &c. No. 126,423; Aug. 26; v. 265; p. 628.
- Geyer Cereal Co., Oakland, Calif. Cereal food drink. No. 127,184; Oct. 21; v. 267; p. 483.
- Giehler-Falk Doll Corporation, New York, N. Y. Games, toys, and sporting goods. No. 128,070; Dec. 23; v. 269; p. 697.
- Gifford, Frank J., St. Paul, Minn. Lubricating-oil used as an enriching fluid for gasolene. No. 124,095; Jan. 14; v. 258; p. 443.
- Gilbert Co., Lynchburg, Va. Laxative tablets. No. 124,927; Mar. 25; v. 260; p. 729.
- Gill, Julius Q., Peoria, Ill. Composition for cooling hot boxes. No. 125,736; June 10; v. 263; p. 327.
- Gillard & Co., Limited., Walthamstow, London, England. Thick fruity sauce containing a seasoning. No. 125,137; Apr. 15; v. 261; p. 265.
- Gillespie, James W., Chattanooga, Tenn. Preparations for the treatment of certain named diseases. No. 124,828; Mar. 18; v. 260; p. 555.
- Gilson, John E., Port Washington, Wis. Cultivators and weeder. No. 127,405; Nov. 11; v. 268; p. 372.
- Ginzburg, Alexander, New York, N. Y. Non-alcoholic maltless beverage. No. 126,285; Aug. 19; v. 265; p. 452.
- Giuseppe Bianco & Figlio, New York, N. Y. Olive-oil. No. 126,990; Oct. 21; v. 267; p. 477.



- Glasgow Company, The, Fond du Lac, Wis. Men's overalls and jackets. No. 128,239; Dec. 30; v. 265; p. 881.
- Glensder Textile Co., New York, N. Y. Velings, nettings, chiffons, &c. No. 128,072; Dec. 23; v. 269; p. 697.
- Globe Printing Company, St. Louis, Mo. Monthly publication. No. 127,835; Dec. 9; v. 269; p. 388.
- Godber, Arthur L., Honesdale, Pa. Medicine for diseases of animals. No. 126,685; Sept. 30; v. 266; p. 735.
- Goddard & Goddard Company, Detroit, Mich. Certain named cutlery, machinery, &c. No. 125,432; May 20; v. 262; p. 474.
- Goerz Flour Mills Co., Newton, Kans. Wheat-flour. Nos. 124,452-3; Feb. 18; v. 259; p. 571.
- Goerz Flour Mills Co., Newton, Kans. Wheat-flour. No. 125,572; May 27; v. 262; p. 643.
- Goines, Susie, Pratt City, Ala. Preparation for treatment of the hair. No. 124,304; Feb. 4; v. 259; p. 177.
- Goldberg, David N., Chicago, Ill. Non-alcoholic beverage. No. 127,612; Nov. 18; v. 268; p. 558.
- Goldberg, Isidor, Brooklyn, N. Y. Flash-light batteries. No. 126,540; Sept. 16; v. 266; p. 446.
- Goldberg, Max, Chicago, Ill. Ice-cream cones and wafers. No. 125,642; June 3; v. 263; p. 162.
- Goldberg, Reubent L., New York, N. Y. Newspaper-cartoons. No. 124,532; Feb. 25; v. 259; p. 772.
- Golde-Patent Manufacturing Co. Inc., New York, N. Y. Tops for vehicles. No. 125,873; June 24; v. 263; p. 631.
- Golden Grain Milling Co., East St. Louis, Ill. Feeds for horses, mules, and other animals. No. 124,964; Apr. 1; v. 261; p. 197.
- Golden Grain Milling Company, East St. Louis, Ill. Hog feed. No. 124,842; Mar. 18; v. 260; p. 556.
- Golden Grain Milling Company, East St. Louis, Ill. Dairy feed. No. 124,843; Mar. 18; v. 260; p. 556.
- Golden Grain Milling Company, East St. Louis, Ill. Horse and mule feed. No. 124,844; Mar. 18; v. 260; p. 556.
- Golden Grain Milling Company, East St. Louis, Ill. Stock feed. No. 125,049; Apr. 8; v. 261; p. 406.
- Golden Rod Ice Cream Company, Fremont, Nebr. Ice-cream. No. 127,743; Dec. 2; v. 269; p. 186.
- Goldenberg, John B., Philadelphia, Pa. Clothing. No. 127,046; Oct. 21; v. 267; p. 479.
- Goldenberg's, Washington, D. C. Coats, vests, trousers, &c. No. 127,278; Nov. 4; v. 268; p. 187.
- Goldenwest Citrus Ass'n., Tustin, Calif. Fresh lemons. Nos. 124,965-6; Apr. 1; v. 261; p. 197.
- Goldenwest Citrus Ass'n., Tustin, Calif. Lemons. Nos. 125,050-1; Apr. 8; v. 261; p. 406.
- Goldsmith, Bro. & Co., L., Pittsburgh, Pa. Leather and fabric gloves. No. 124,454; Feb. 18; v. 259; p. 571.
- Goldsmith, Stern & Co., New York, N. Y. Finger-rings. No. 127,234; Oct. 28; v. 267; p. 643.
- Goldsmith, Stern & Co., New York, N. Y. Locketts and fobs. No. 127,235; Oct. 28; v. 267; p. 644.
- Goldstein, Joseph A., New York, N. Y. Ladies' outer suits. No. 125,052; Apr. 8; v. 261; p. 406.
- Good Chemical Company, Inc., Roanoke, Va. Automobile finish and paint preserver. No. 124,305; Feb. 4; v. 259; p. 178.
- Goodell-Pratt Company, Greenfield, Mass. Hacksaw-blades. Nos. 127,836-7; Dec. 9; v. 269; p. 388.
- Goodings, Daniel S., Brooklyn, N. Y. Fire-extinguishers, fire-extinguishing pumps and syringes. No. 127,047; Oct. 21; v. 267; p. 479.
- Goodlass Wall & Company Limited, Liverpool, England. Oils for mixing with dry paint-pigments, &c. No. 127,946; Dec. 16; v. 269; p. 542.
- Goodman, Bertram J., Brooklyn, N. Y. Dressed and dyed furs. No. 125,903; July 8; v. 264; p. 349.
- Goodyear Tire & Rubber Company, Akron, Ohio. Asbestos packing. No. 126,597; Sept. 23; v. 266; p. 593.
- Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber belting. No. 126,686; Sept. 30; v. 266; p. 735.
- Goodyear Tire & Rubber Company, Akron, Ohio. Rubber heels and soles for boots and shoes. No. 127,406; Nov. 11; v. 268; p. 372.
- Gopher Envelope Company, Minneapolis, Minn. Mailing-envelopes. No. 126,687; Sept. 30; v. 266; p. 735.
- Gopher State Canneries, Inc., Watertown, Minn. Canned vegetables. No. 128,240; Dec. 30; v. 269; p. 881.
- Gordhamer, Harry A., Minneapolis, Minn. Creamery-butter. No. 125,336; May 13; v. 262; p. 309.
- Gordon, Wolf, Cowen Co., Inc., New York, N. Y. Chocolate-covered candy. No. 124,096; Jan. 14; v. 258; p. 444.
- Gore, Roscoe B., Boise, Idaho. Preparation for scalp treatment. No. 124,533; Feb. 25; v. 259; p. 772.
- Gorzelski, Charles, Johnstown, Pa. Salve used on scalds and burns. No. 126,688; Sept. 30; v. 266; p. 735.
- Gosnell, Mabel B., Minneapolis, Miss. Fruit preserves, jams, &c. No. 127,186; Oct. 21; v. 267; p. 483.
- Goudey Gum Co., Boston, Mass. Chewing-gum. No. 125,737; June 10; v. 263; p. 327.
- Gould, Wells & Blackburn Co., Madison, Wis. Canned goods, vanilla extract, peanut-butter, &c. No. 127,613; Nov. 18; v. 268; p. 558.
- Goulds Manufacturing Co., The, Seneca Falls, N. Y. Power-driven system for pumping water. No. 124,712; Mar. 11; v. 260; p. 387.
- Goulds Manufacturing Company, Seneca Falls, N. Y. Hand-pumps. No. 127,744; Dec. 2; v. 269; p. 186.
- Graf Bros., Inc., New York, N. Y. Pharmaceutical preparations. No. 127,048; Oct. 21; v. 267; p. 479.
- Graf, Eugene, Bozeman, Mont. Bread and cake. No. 127,279; Nov. 4; v. 268; p. 187.
- Grand Rapids Dry Goods Company, Grand Rapids, Mich. Knit underwear and knitted clothing. No. 126,849; Oct. 7; v. 267; p. 178.
- Grand Union Tea Co., Brooklyn, N. Y. Bouillon-cubes, peanut-butter, and jelly-powder. No. 127,049; Oct. 21; v. 267; p. 479.
- Granstrand, John A., Walla Walla, Wash. Compound or liquid for treating the eyes. No. 125,217; Apr. 22; v. 261; p. 796.
- Grasselli Chemical Company, The, Cleveland, Ohio. Silicate of soda. No. 125,433; May 20; v. 262; p. 474.
- Grasselli Chemical Company, The, Cleveland, Ohio. Sal-ammoniac. No. 126,850; Oct. 7; v. 267; p. 178.
- Graton & Knight Manufacturing Company, Worcester, Mass. Leather belting. Nos. 127,614-15; Nov. 18; v. 268; p. 558.
- Graton and Knight Manufacturing Company, Worcester, Mass. Leather belting. No. 128,074; Dec. 23; v. 269; p. 697.
- Gratton, George E., Dobbs Ferry, N. Y. Ointment for the treatment of pimples, eruptions, &c. No. 125,289; May 6; v. 262; p. 165.
- Gray, Frank A., New York, N. Y. Hair-dyes. No. 124,710; Mar. 11; v. 260; p. 387.
- Gray, Harry J., Huntington, W. Va. Cough-syrup. No. 126,690; Sept. 30; v. 266; p. 735.
- Greco Canning Co., Inc., San Jose, Calif. Canned tomatoes, pears, string-beans, &c., and concentrated tomato pulp, &c. No. 127,050; Oct. 21; v. 267; p. 479.
- Green Bay Drive Calk Co., Green Bay, Wis. Tool-holders for lathes, planers, shapers, and milling-machines. No. 127,051; Oct. 21; v. 267; p. 479.
- Greenberg-Kantor Co., Kansas City, Mo. Men's flannel work-shirts, overcoats, mackinaws. No. 126,851; Oct. 7; v. 267; p. 178.
- Greenberg-Kantor Co., Kansas City, Mo. Hosiery and knitted underwear, shirts. No. 126,852; Oct. 7; v. 267; p. 178.
- Greenberg, Morris H., Houston, Tex. Certain named furniture and house-furnishings. No. 125,808; June 17; v. 263; p. 478.
- Greene, Frank A., Boston, Mass. Medicinal preparation used as a nerve-tonic. No. 126,425; Aug. 26; v. 265; p. 628.
- Greenspan, Marius, Chicago, Ill. Automobile rubber tires and inner tubes. No. 128,076; Dec. 23; v. 269; p. 697.
- Greissell Gitzen Company, Detroit, Mich. Bread. No. 126,007; July 22; v. 264; p. 697.
- Griffin Creamery Ice & Produce Co., Harrisonville, Mo. Butter. No. 125,338; May 13; v. 262; p. 309.
- Griffin M'fg. Co., Inc., New York, N. Y. Shoe-polish. No. 127,408; Nov. 11; v. 268; p. 372.
- Griffith-Durney Co., San Francisco, Calif. Canned sardines, pilchards, tuna fish, and salmon. No. 124,967; Apr. 1; v. 261; p. 197.
- Grosner, Clarence W., Washington, D. C. Certain named clothing. No. 124,241; Jan. 28; v. 258; p. 810.
- Gross, Ignatz, Los Angeles, Calif. Girls' caps, suits, and overcoats. No. 126,853; Oct. 7; v. 267; p. 178.
- Gross, Leopold, New York, N. Y. Wheat-flour. No. 124,113; Jan. 14; v. 258; p. 444.
- Grossmith, John L., London, England. Perfume. No. 125,290; May 6; v. 262; p. 165.
- Groth, Herman A., Chicago, Ill. Preparation for treatment of foot diseases. No. 124,634; Mar. 4; v. 260; p. 197.
- Guaranty Corporation, New York, N. Y. Cotton piece goods. No. 128,077; Dec. 23; v. 269; p. 697.
- Guess Company, Vidalia, Ga. Non-alcoholic non-cereal maltless beverages. No. 126,691; Sept. 30; v. 266; p. 735.
- Guidi, Giuseppe W., New York, N. Y. Ammonium sulfoichthyolicum. No. 125,218; Apr. 22; v. 261; p. 796.
- Guterman, Rosenfeld & Company, New York, N. Y. Hosiery. No. 125,434; May 20; v. 262; p. 474.
- Guitard Company, San Francisco, Calif. Chocolates, chocolate and cocoa combined, cocoa. No. 126,008; July 22; v. 264; p. 697.
- Gulf Publishing Company, Inc., Houston, Tex. Weekly magazine. No. 126,009; July 22; v. 264; p. 697.
- Gulbransen-Dickinson Co., Chicago, Ill. Pianos, player-pianos, and player-actions. No. 125,053; Apr. 8; v. 261; p. 406.
- Gutmann & Company, Chicago, Ill. Liquid chemicals for use in tanning processes. No. 126,010; July 22; v. 264; p. 697.
- Gutta Percha & Rubber Manufacturing Company, The, New York, N. Y. Certain named mechanical rubber goods. No. 124,381; Feb. 11; v. 259; p. 379.
- H. Baldinger & Company, St. Paul, Minn. Bread. No. 127,579; Nov. 18; v. 268; p. 557.
- H. Evan Taylor, Inc., Philadelphia, Pa. Periodical financial publications. No. 124,838; Mar. 18; v. 260; p. 555.
- H. Kohnstamm & Co., New York, N. Y. Coloring for foods. No. 125,747; June 10; v. 263; p. 328.
- H. Kohnstamm & Co., New York, N. Y. Coloring for foods. No. 126,028; July 22; v. 264; p. 697.



*Alphabetical list of registrants of trade-marks—Continued.*

- H. Mueller Manufacturing Co., Decatur, Ill. Fluid-supply pipes. No. 126,563; Sept. 16; v. 266; p. 446.
- H. Weinbagen, New York, N. Y. Thermometers. Nos. 125,694-5; June 3; v. 263; p. 163.
- H. A. Johnson Co., Boston, Mass. Certain named foods. No. 125,657; June 3; v. 263; p. 162.
- H. A. Metz Laboratories, Inc., New York, N. Y. Medicinal preparations. No. 125,240; Apr. 22; v. 261; p. 796.
- H. B. Wiggin's Sons Company, Bloomfield, N. J. Plaster of Paris for dental, &c., purposes. No. 126,371; Aug. 19; v. 265; p. 455.
- H. C. Tack Company, The, Cleveland, Ohio. All-metal furniture and upholstery nails. No. 125,000; Apr. 1; v. 261; p. 198.
- H. C. Vaughan Lumber Co., Mobile, Ala. Lumber. No. 124,609; Feb. 25; v. 259; p. 774.
- H. D. Justi & Son, Philadelphia, Pa. Artificial teeth. No. 125,658; June 3; v. 263; p. 162.
- H. G. Hill Grocery Company, Nashville, Tenn. Canned vegetables and fruits, flours, coffee. No. 125,741; June 10; v. 263; p. 327.
- H. G. Prince & Co., Oakland, Calif. Canned fruits and berries. No. 125,879; June 24; v. 263; p. 631.
- H. H. Hopkins Company, Chicago, Ill. Waterproof felt roofing, waterproof building-paper, &c. No. 126,697; Sept. 30; v. 266; p. 735.
- H. J. Koehler Motors Corporation, Newark, N. J. Motor-cars and automobiles. No. 124,107; Jan. 14; v. 258; p. 444.
- H. L. Brinkhoff Company, Pittsburgh, Pa. Corn remedy. No. 125,970; July 22; v. 264; p. 695.
- H. M. Lane Company, The, Detroit, Mich. Semimonthly magazine. No. 124,551; Feb. 25; v. 259; p. 772.
- H-O Company, Buffalo, N. Y. Steam-cooked oatmeal and rolled oats. No. 125,343; May 13; v. 262; p. 309.
- H P Coffee Company, St. Louis, Mo. Coffee, spices, &c. No. 127,726; Dec. 2; v. 269; p. 185.
- H. R. Mallinson & Co. Inc., New York, N. Y. Silk piece goods. No. 124,559; Feb. 25; v. 259; p. 773.
- H-R Manufacturing Company, Chicago, Ill. Locks for control-levers for automobiles. No. 124,847; Mar. 18; v. 260; p. 556.
- H. T. Lange Company, Eau Claire, Wis. Rolled oats, molasses, tea, &c. No. 127,759; Dec. 2; v. 269; p. 186.
- H. V. Smith & Company, Wauseon, Ohio. Medicinal preparation for influenza and pneumonia. No. 126,215; July 29; v. 264; p. 862.
- H. W. Gordinier & Sons Co., Troy, N. Y. Flower, field, and vegetable seeds. No. 125,643; June 3; v. 263; p. 162.
- H. W. Johns-Manville Co., New York, N. Y. Boiler and pipe covering. No. 124,973; Apr. 1; v. 261; p. 197.
- Ilaarmann Vinegar & Pickle Co., Omaha, Nebr. Vinegar. No. 124,968; Apr. 1; v. 261; p. 197.
- Haas, Baruch & Co., Los Angeles, Calif. Coffee. No. 125,339; May 13; v. 262; p. 309.
- Haas, Baruch & Co., Los Angeles, Calif. Certain named foods. No. 125,703; June 3; v. 263; p. 164.
- Haas Brothers, New York, N. Y. Wool piece goods. No. 127,947; Dec. 16; v. 269; p. 542.
- Habirshaw Electric Cable Company, Inc., New York, N. Y. Electrically-insulated locomotive-headlight wire. No. 126,164; July 29; v. 264; p. 860.
- Hacking Mfg. Co., Providence, R. I. Storage batteries. No. 127,616; Nov. 18; v. 268; p. 558.
- Haddad, Joseph A., Toledo, Ohio. Proprietary medicine—to wit, a stomach elixir. No. 127,838; Dec. 9; v. 269; p. 388.
- Hadert, Albert J., New Rochelle, N. Y. Alimentary paste—viz., macaroni, spaghetti, noodles. No. 125,138; Apr. 15; v. 261; p. 265.
- Hagemeister Brewing Company, Green Bay, Wis. Non-alcoholic non-intoxicating cereal beverage. No. 124,846; Mar. 18; v. 260; p. 556.
- Hair-tonic. W. V. Wallace. No. 126,972; Oct. 14; v. 267; p. 336.
- Haley, F. L., Marion, Ala. Yeast. No. 125,435; May 20; v. 262; p. 474.
- Hall-Welter Company, Inc., Rochester, N. Y. Check-writing machine. No. 125,436; May 20; v. 262; p. 474.
- Hall, William, New York, N. Y. Certain named knitted garments. No. 126,429; Aug. 26; v. 265; p. 628.
- Halladay, William S., Jr., Waukesha, Wis. Limestone prepared for agricultural purposes. No. 125,139; Apr. 15; v. 261; p. 265.
- Halligan Candy Company, Davenport, Iowa. Candy. No. 126,693; Sept. 30; v. 266; p. 735.
- Halstead Milling & Elevator Co., Halstead, Kans. Wheat-flour. No. 124,097; Jan. 14; v. 258; p. 444.
- Hamacher, Peter M., Deer Park, Wash. Medicine for treatment of diarrhea and colds. No. 127,052; Oct. 21; v. 267; p. 479.
- Hampden Paint & Chemical Co., Springfield, Mass. Certain named paints, &c. No. 124,306; Feb. 4; v. 259; p. 178.
- Hanan & Son, Brooklyn, N. Y. Boots, shoes, and slippers. No. 124,713; Mar. 11; v. 260; p. 387.
- Handy Manufacturing Co., The, Seattle, Wash. Holders for fruit-jars while the contents thereof are being cooked or sterilized. No. 124,242; Jan. 28; v. 258; p. 810.
- Hanes Rubber Company, Winston-Salem, N. C. Rubber tires and inner tubes. No. 127,948; Dec. 16; v. 269; p. 542.
- Hansen, Christian E., San Diego, Calif. Depilatory. No. 125,438; May 20; v. 262; p. 474.
- Hanson-Roach-Powder Co., Chicago, Ill. Monthly serial bulletin of leading quotations of the day. No. 124,196; Jan. 21; v. 258; p. 641.
- Hardy, John, Buffalo, N. Y. Piano-polish. No. 125,738; June 10; v. 263; p. 327.
- Harland, Jno. C., Eltingville, N. Y. Ready-mixed paints. No. 126,854; Oct. 7; v. 267; p. 178.
- Harland and Little, Inc., New York, N. Y. Mixed paints. Nos. 125,219-20; Apr. 22; v. 261; p. 796.
- Harley-Davidson Motor Co., Milwaukee, Wis. Bicycles. No. 124,714; Mar. 11; v. 260; p. 387.
- Harley-Davidson Motor Co., Milwaukee, Wis. Motor-cycles. No. 127,187; Oct. 21; v. 267; p. 483.
- Harms Wrasse Company, Mason City, Nebr. Preparation for the treatment of pyorrhea and kindred diseases. No. 124,382; Feb. 11; v. 259; p. 379.
- Harned, Ada K., New York, N. Y. Card-rack for solitaire lay-outs. No. 128,078; Dec. 23; v. 269; p. 697.
- Harriet Hubbard Ayer, New York, N. Y. Certain named pharmaceutical toilet preparations. Nos. 126,382-4; Aug. 26; v. 265; p. 627.
- Harriet, Madam Frances, Chicago, Ill. Face-cream and hair-pomade. No. 124,534; Feb. 25; v. 259; p. 772.
- Harriman Spring Company, Gorham, N. H. Non-alcoholic maltless beverage. No. 125,221; Apr. 22; v. 261; p. 796.
- Harris and Berntz Co., Philadelphia, Pa. Nursing-nipples. No. 126,165; July 29; v. 264; p. 860.
- Harris, Charles H., Oil City, Pa. Roofing—namely, felt saturated with asphaltum. No. 125,810; June 17; v. 263; p. 478.
- Harris Company, Inc., The, New York, N. Y. Cotton piece goods. No. 124,099; Jan. 14; v. 258; p. 444.
- Harris, Mark, New York, N. Y. Writing-paper, bill-heads, &c. No. 125,439; May 20; v. 262; p. 475.
- Harris-Polk Hat Co., St. Louis, Mo. Hats. No. 124,715; Mar. 11; v. 260; p. 387.
- Harrison Nursery Co., York, Nebr. Trees, shrubs, roses, vines, perennials, bulbs. No. 124,383; Feb. 11; v. 259; p. 379.
- Harroun Motors Corporation, New York, N. Y. Automobiles and motor-trucks. No. 124,384; Feb. 11; v. 259; p. 379.
- Hart Herbert H., Evanston, Ill. Railroad-tie plates. No. 126,166; July 29; v. 264; p. 860.
- Hart, Schaffner & Marx, Chicago, Ill. Coats, vests, trousers, &c. No. 128,241; Dec. 30; v. 269; p. 881.
- Hartford Canning Company, Hartford, Wis. Canned vegetables. No. 126,856; Oct. 7; v. 267; p. 178.
- Hartman Company, The, Chicago, Ill. Horse-drawn carts, wagons, and parts thereof and wheelbarrows. No. 127,410; Nov. 11; v. 268; p. 372.
- Hartman Company, Chicago, Ill. Poultry-fountains and brood-coops. No. 128,079; Dec. 23; v. 269; p. 697.
- Hartman, Fred H., Ottumwa, Iowa. Wheat-flour. No. 125,645; June 3; v. 263; p. 162.
- Hartmann Bros., Incorporated, New York, N. Y. Hair-nets. No. 128,080; Dec. 23; v. 269; p. 697.
- Hartogensis, Samuel A., New York, N. Y. Collar and link sleeve buttons made wholly or in part of precious metal. No. 127,236; Oct. 28; v. 267; p. 644.
- Harvey Motor Truck Company, Chicago and Harvey, Ill. Motor-trucks. No. 128,081; Dec. 23; v. 269; p. 697.
- Hasehka, Adam, New York, N. Y. Preparation for treating the skin, hair, and scalp. No. 124,536; Feb. 25; v. 259; p. 772.
- Hat Trade Publishing Co., New York, N. Y. Monthly magazine. No. 127,842; Dec. 9; v. 269; p. 388.
- Hatch, Nathan, Albany and Cohoes, N. Y. Certain named woven and knitted underwear. Nos. 124,244-5; Jan. 28; v. 258; p. 810.
- Hathaway, George H., Chicago, Ill. Coffee, tea, spices, cocoa. No. 124,969; Apr. 1; v. 261; p. 197.
- Hathaway & Sons, C. F., North Cambridge, Mass. Bread. No. 125,874; June 24; v. 263; p. 631.
- Hatheway & Reynolds, Oriskany Falls, N. Y. Knitted sweaters, sweater-coats, and knit underwear. No. 128,082; Dec. 23; v. 269; p. 697.
- Haughton, T. A., Baltimore, Md. Laxative tonic. No. 128,242; Dec. 30; v. 269; p. 881.
- Havens & Geddes Co., Indianapolis, Ind. Men's and boys' overalls and work-shirts. No. 127,411; Nov. 11; v. 268; p. 372.
- Haviland, Lyman P., Camden, N. Y. Canned vegetables. No. 124,829; Mar. 18; v. 260; p. 555.
- Haviland, Lyman P., Camden, N. Y. Canned vegetables. No. 124,830; Mar. 18; v. 260; p. 555.
- Haviland, Lyman P., Camden, N. Y. Canned vegetables. No. 125,573; Mar. 27; v. 262; p. 643.
- Hawaiian Pineapple Co. Ltd., Honolulu, Hawaii. Canned pineapples. No. 125,646; June 3; v. 263; p. 162.
- Hawaiian Pineapple Co. Ltd., Honolulu, Hawaii. Canned pineapples. No. 125,648; June 3; v. 263; p. 162.
- Hayden-Griffin Co., The, Toledo, Ohio. Stove-blackings. No. 127,053; Oct. 21; v. 267; p. 479.
- Hays Manufacturing Co., Rogers, Ark. Hair-tonic. No. 126,430; Aug. 26; v. 265; p. 628.



- Hazard Lead Works, Inc., The, Hazardville, Conn. Certain named paints and painters' materials. No. 125,340; May 13; v. 262; p. 309.
- Healey & Co., New York, N. Y. Horse-drawn and electric vehicles, motor-car bodies. No. 126,546; Sept. 16; v. 266; p. 446.
- Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat-flour. No. 124,197; Jan. 21; v. 258; p. 641.
- Hecker-Jones-Jewell Milling Company, New York, N. Y. Wheat and rye flours. No. 125,341; May 13; v. 262; p. 309.
- Hedges-Buck Company, Stockton, Calif. Coffee. No. 128,243; Dec. 30; v. 269; p. 881.
- Heekin Company, Cincinnati, Ohio. Insect-powder. No. 127,745; Dec. 2; v. 269; p. 186.
- Heider Manufacturing Company, Carroll, Iowa. Coaster-wagon. No. 126,011; July 22; v. 264; p. 697.
- Heimerdinger, Mary E., Louisville, Ky. Mule-shears. No. 125,649; June 3; v. 263; p. 162.
- Heimerdinger, Mary E., Louisville, Ky. Hedge-shears. No. 126,857; Oct. 7; v. 267; p. 178.
- Heinrich, Edward O., Tacoma, Wash. Hair-shampoo. No. 125,704; June 3; v. 263; p. 164.
- Heinrich, Hermann & Weiss, New York, N. Y. Kit-containers for toilet articles. No. 124,246; Jan. 28; v. 258; p. 810.
- Helburn Thompson Company, Salem, Mass. Gloves. No. 127,413; Nov. 11; v. 268; p. 372.
- Helen Keller Film Corporation, Los Angeles, Calif. Motion-picture films. No. 126,705; Sept. 30; v. 266; p. 735.
- Helmig-McKenzie Shoe Company, The, Cincinnati, Ohio. Ladies' and misses' shoes. No. 126,287; Aug. 19; v. 265; p. 452.
- Hemp & Co. (Corp.), St. Louis, Mo. Stovepipe-elbows and wood, coal, gas, oil, and vapor stoves. No. 124,716; Mar. 11; v. 260; p. 387.
- Henderson, W. C., Baltimore, Md. Non-alcoholic maltless beverages. No. 127,188; Oct. 21; v. 267; p. 483.
- Henninger & Ayes Mfg. Co., Portland, Oreg. Certain named canning machinery and canners' supplies. No. 125,444; May 20; v. 262; p. 475.
- Henri Gutmman Silks Corporation, New York, N. Y. Silk piece goods. No. 126,427; Aug. 26; v. 265; p. 628.
- Henry Blewett & Son, Inc., Somerville, Mass. Bread. Nos. 126,994-5; Oct. 21; v. 267; p. 477.
- Henry Blewett & Son, Inc., Somerville, Mass. Bread. No. 127,582; Nov. 18; v. 268; p. 557.
- Henry Disston & Sons, Incorporated, Philadelphia, Pa. Saws. No. 127,377; Nov. 11; v. 268; p. 371.
- Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa. Certain named beverages, non-alcoholic. No. 124,869; Mar. 11; v. 260; p. 556.
- Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa. Vanilla flavoring extracts and powders. No. 125,669; June 3; v. 263; p. 163.
- Henry Lochte Co., Ltd., New Orleans, La. Coffee. No. 127,437; Nov. 11; v. 268; p. 373.
- Henry Weis Manufacturing Company, Kansas City and Atchison, Kans. Metal partitions. No. 128,200; Dec. 23; v. 269; p. 701.
- Henze-Tollen Brewing Company, Iron Mountain, Mich. Malt beverages, extracts, and liquors. No. 126,598; Sept. 23; v. 266; p. 593.
- Henze-Tollen Brewing Company, Iron Mountain, Mich. Malt beverages, extracts, and liquors. No. 126,694; Sept. 30; v. 266; p. 735.
- Heppel, Jean, Newark, N. J. Cut lunch. No. 127,414; Nov. 11; v. 268; p. 372.
- Herbert F. L. Funke Co. Inc., New York, N. Y. Spokes, nipples, hubs, pedals, saddles, all for bicycles and motorcycles. No. 127,399; Nov. 11; v. 268; p. 372.
- Hercules Powder Company, Wilmington, Del. Pyroxylin plastics in the form of rods, sheets, &c. No. 127,189; Oct. 21; v. 267; p. 483.
- Herman Bros. Company, Lock Haven, Pa. Headache-tablets. No. 126,695; Sept. 30; v. 266; p. 735.
- Herman Bros. Company, Lock Haven, Pa. Cough-lozenges. No. 127,618; Nov. 18; v. 268; p. 558.
- Herman, I. C., New York, N. Y. Handkerchiefs. No. 128,083; Dec. 23; v. 269; p. 697.
- Herman Kienzler Co., New York, N. Y. Cotton-seed salad-oil. No. 125,659; June 3; v. 263; p. 162.
- Herman Scheuer & Sons, Brooklyn, N. Y. Tourist kits. No. 125,515; May 20; v. 262; p. 477.
- Hernandez-Mejia, Arturo, New Rochelle, N. Y. Measuring and scientific appliances. No. 127,054; Oct. 21; v. 267; p. 479.
- Herrman, Daniel W., New York, N. Y. Cotton linings. No. 124,717; Mar. 11; v. 260; p. 387.
- Herrman, Daniel W., New York, N. Y. Velvets, velveteens, and woolen piece goods. No. 124,718; Mar. 11; v. 260; p. 387.
- Herrman, Daniel W., New York, N. Y. Cotton, silk, linen, and canvas shoe fabrics. No. 125,739; June 10; v. 263; p. 327.
- Herzog, Charles, New York, N. Y. Preparation for the treatment of influenza. No. 126,012; July 22; v. 264; p. 697.
- Hess Steel Corp., The, Baltimore, Md. Steel bars, billets, sheets, and ingots. No. 127,055; Oct. 21; v. 267; p. 479.
- Hessel, W. F., New York, N. Y. Electrical switch. No. 124,307; Feb. 4; v. 259; p. 178.
- Hessig-Ellis Drug Co., Memphis, Tenn. Hair color-restorer and tonic, depilatory, shampoo. No. 125,811; June 17; v. 263; p. 478.
- Hession Tiller & Tractor Corporation, Buffalo, N. Y. Tractors and soil-pulverizers. No. 127,415; Nov. 11; v. 268; p. 372.
- Hewitt Bros. Soap Co., The, Dayton, Ohio. Flaked laundry soap. No. 125,140; Apr. 15; v. 261; p. 265.
- Heyden Chemical Works, New York, N. Y. Medicinal preparations for certain named diseases. Nos. 125,222-3; Apr. 22; v. 261; p. 796.
- Heystek & Canfield Co., Grand Rapids, Mich. Paints, varnishes, &c. No. 125,740; June 10; v. 263; p. 327.
- Heyward, Thomas R., Jr., Pittsburgh, Pa. Prepared dolomite. No. 124,247; Jan. 28; v. 258; p. 810.
- Heywood Brothers and Wakefield Company, Gardner, Mass. Baby-carriages and go-carts. No. 124,385; Feb. 11; v. 259; p. 380.
- Hiawatha Phonograph Co., Chicago, Ill. Talking-machines. No. 127,056; Oct. 21; v. 267; p. 479.
- Hickory Hosiery Mills, Inc., Hickory, N. C. Infant's hosiery. No. 124,719; Mar. 11; v. 260; p. 387.
- High Rock Knitting Company, Philmont, N. Y. Underwear. No. 128,084; Dec. 23; v. 269; p. 697.
- Hilker-Wiechers Manufacturing Co., Racine, Wis. Men's outer shirts. No. 124,537; Feb. 25; v. 259; p. 772.
- Hill, Arthur J., San Francisco, Calif. Life-insurance publication. No. 127,949; Dec. 16; v. 269; p. 542.
- Hill and Griffith Company, The, Cincinnati, Ohio. Core compound used in metal-foundries, &c. No. 125,651; June 3; v. 263; p. 162.
- Hill, Oren, Lawrence, Mass. Powder for cleaning metals and glass. No. 125,141; Apr. 15; v. 261; p. 265.
- Hille Laboratories, Chicago, Ill. Medicinal compound. Nos. 127,416-17; Nov. 11; v. 268; p. 372.
- Hills Bros., San Francisco, Calif. Tea. No. 127,191; Oct. 21; v. 267; p. 483.
- Hills Brothers Company, The, New York, N. Y. Cigarettes. No. 126,288; Aug. 19; v. 265; p. 452.
- Hinck, Otto H., New York, N. Y. Cotton piece goods. No. 125,342; May 13; v. 262; p. 309.
- Hinds, Aurelius S., Portland, Me. Toilet soap. No. 126,432; Aug. 26; v. 265; p. 628.
- Hines, Samuel L., Madison, N. J. Chemical carbon-removers. No. 126,433; Aug. 26; v. 265; p. 628.
- Hinks, Wells & Co., Birmingham, England. Stylographic and fountain pens and pen-points. No. 124,455; Feb. 18; v. 259; p. 571.
- Hinks, Wells & Co., Birmingham, England. Pen nibs and points, stylographic and fountain pens, and stationers' sundries. No. 124,538; Feb. 25; v. 259; p. 772.
- Hiram Ricker & Sons, South Poland, Me. Spring-water. No. 125,093; Apr. 8; v. 261; p. 407.
- Hirschfeld Bros.-Aberstein Garment Co., St. Louis, Mo. Misses' and ladies' dresses. No. 126,858; Oct. 7; v. 267; p. 178.
- Hirshfield, Edward, St. Louis, Mo. Dress-skirts. No. 126,859; Oct. 7; v. 267; p. 178.
- Hispanic Textile Co. Inc., New York, N. Y. Cotton piece goods. No. 126,696; Sept. 30; v. 266; p. 735.
- Hitz, Jacobs & Company, New York, N. Y. Porch-shades. No. 125,652; June 3; v. 263; p. 162.
- Hitzeman, Linda, Fort Wayne, Ind. Women's and girls' combination-undergarment. No. 125,812; June 17; v. 263; p. 478.
- Hoban, John, Ottawa, Ill. Men's garters. No. 124,720; Mar. 11; v. 260; p. 387.
- Hockaday, Frank W., Wichita, Kans. Printed maps. No. 124,098; Jan. 14; v. 258; p. 444.
- Hocotren Mfg. Co., Tucson, Ariz. Canteens. No. 125,142; Apr. 15; v. 261; p. 265.
- Hodgson Oil Refining Company, Athens, Ga. Shortening composed of cotton-seed oil and cotton-seed-oil stearin. No. 126,013; July 22; v. 264; p. 697.
- Hoerr, Philipp, Peoria, Ill. Patches for repairing inner tubes, tire-casings, and other rubber goods. No. 126,231; Aug. 12; v. 265; p. 301.
- Hoffer, Charles D., Louisville, Ky. Laxative compound. No. 126,860; Oct. 7; v. 267; p. 178.
- Hoffheimer, H. W., Chicago, Ill. Medical and toilet cream for all foot troubles. No. 127,057; Oct. 21; v. 267; p. 479.
- Holcomb, Anstlin, Los Angeles, Calif. Rubber tires. No. 128,085; Dec. 23; v. 269; p. 697.
- Holden-Leonard Company, New York, N. Y. Woolen piece goods. Nos. 126,014-16; July 22; v. 264; p. 697.
- Holden-Leonard Company, New York, N. Y. Woolen fabric. No. 127,951; Dec. 16; v. 269; p. 542.
- Holden-Leonard Company, New York, N. Y. Woolen piece goods. No. 127,952; Dec. 16; v. 269; p. 542.
- Holland Food Corporation, New York, N. Y. Condensed milk. No. 127,619; Nov. 18; v. 268; p. 558.
- Holland Rusk Co., Holland, Mich. Dessert in form of a powder made from starch products. No. 125,054; Apr. 8; v. 261; p. 406.
- Hollenbach, Joseph T., New York, N. Y. Men's outer suits. No. 125,291; May 6; v. 262; p. 165.
- Holley Milling Company, The, Ordan, Utah. Wheat-flour. No. 125,653; June 3; v. 263; p. 162.



## Alphabetical list of registrants of trade-marks—Continued.

- Holley Milling Company, Ogden, Utah. Wheat-flour. No. 128,086; Dec. 23; v. 269; p. 697.
- Holliday, Frances E., New Orleans, La. Marmalade. No. 126,861; Oct. 7; v. 267; p. 178.
- Holmes and Barnes, Ltd., Baton Rouge, La. Wheat-flour. No. 127,058; Oct. 21; v. 267; p. 479.
- Holmes-Letherman Seed Company, The, Canton, Ohio. Seeds, bulbs, and plants. No. 124,721; Mar. 11; v. 260; p. 387.
- Holophane Glass Co., Inc., New York, N. Y. Glass globes and reflectors. No. 126,599; Sept. 23; v. 266; p. 593.
- Holovchuk, Karp, New York, N. Y. Remedy for gonorrhea and blood diseases. No. 127,419; Nov. 11; v. 268; p. 372.
- Holt & Company, New York, N. Y. Wheat-flour. No. 124,308; Feb. 4; v. 259; p. 178.
- Holt & Company, New York, N. Y. Wheat-flour. No. 125,055; Apr. 8; v. 261; p. 406.
- Holt Manufacturing Company, Stockton, Calif. Monthly periodicals. No. 127,840; Dec. 9; v. 269; p. 388.
- Holtzman, Abraham L., Philadelphia, Pa. Holder or case for shaving-brushes. No. 126,289; Aug. 19; v. 265; p. 452.
- Home Brewing Co., The, Bridgeport, Conn. Ale, lager, and porter. No. 125,813; June 17; v. 263; p. 478.
- Home Specialty Company, The, Cleveland, Ohio. Combination washing and wringing or extracting machines. No. 126,547; Sept. 16; v. 266; p. 446.
- Honecker, Jacob J., Cleveland, Ohio. Dyspepsia-pills. No. 127,746; Dec. 2; v. 269; p. 186.
- Honorof, P., Gary, Ind. Non-alcoholic maltless beverage. No. 126,167; July 29; v. 264; p. 860.
- Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, and overshoes, rubber-soled canvas shoes. No. 125,292; May 6; v. 262; p. 165.
- Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, overcoats, &c. No. 126,862; Oct. 7; v. 267; p. 178.
- Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, and overshoes, rubber-sole canvas shoes. No. 127,059; Oct. 21; v. 267; p. 479.
- Hooven & Allison Company, The, Xenia, Ohio. Manila rope. No. 124,834; Mar. 18; v. 260; p. 555.
- Hooven & Allison Company, The, Xenia, Ohio. Rope of manila, sisal, istle and hemp. No. 126,168; July 29; v. 264; p. 860.
- Hoover Steel Ball Company, Ann Arbor, Mich. Antifriction-balls. No. 126,548; Sept. 16; v. 266; p. 446.
- Hosea, Luzena, Indianapolis, Ind. Cloth athletic belt for women. No. 125,814; June 17; v. 263; p. 478.
- Hoshaw & Hopkins, Hot Springs, Ark. Blood-purifiers. No. 125,143; Apr. 15; v. 261; p. 265.
- Hoskins Manufacturing Company, Detroit, Mich. Alloys containing chromium and nickel. No. 124,928; Mar. 25; v. 260; p. 729.
- Hoskins Manufacturing Company, Detroit, Mich. Alloys containing iron and chromium. No. 127,841; Dec. 9; v. 269; p. 388.
- House of Mitchell, Pittsburgh, Pa. Tailor-made suits for men and boys. No. 126,863; Oct. 7; v. 267; p. 178.
- Howard Bros. Chem. Co., Buffalo, N. Y. Toilet cream. No. 125,451; May 20; v. 262; p. 475.
- Howard Bros. Chemical Co., Buffalo, N. Y. Toilet cream. No. 126,017; July 22; v. 264; p. 697.
- Howard & Casey Co., Mount Vernon, Ill. Coffee. No. 127,060; Oct. 21; v. 267; p. 479.
- Howard & Casey Co., Mount Vernon, Ill. Coffee. No. 127,747; Dec. 2; v. 269; p. 186.
- Hubbard Fertilizer Company of Baltimore City, Baltimore, Md. Fertilizers. No. 126,434; Aug. 26; v. 265; p. 628.
- Hudson Belting Company, Worcester, Mass. Leather belting. No. 125,056; Apr. 8; v. 261; p. 406.
- Hudson, Joseph, Birmingham, England. Whistle-calls. No. 124,456; Feb. 18; v. 259; p. 571.
- Huff and Cutler, Boston, Mass. Tire-repair outfits and tire-patches. No. 127,061; Oct. 21; v. 267; p. 479.
- Hughes, George W., Birmingham, England. Steel pens. No. 125,904; July 8; v. 264; p. 349.
- Hughes Mfg. Co., Rome, N. Y. Dress-fasteners. No. 127,062; Oct. 21; v. 267; p. 479.
- Hughes, Samuel, Berkeley, Calif. Whirligig. No. 127,953; Dec. 16; v. 269; p. 542.
- Hughes Tool Company, Houston, Tex. Rotary earth-boring drills, milling-tools, &c. No. 126,549; Sept. 16; v. 266; p. 446.
- Hughes, William R., New York, N. Y. Bath-room accessories. No. 126,550; Sept. 16; v. 266; p. 446.
- Hull, Arthur M., Chicago, Ill. Face-cream. No. 125,144; Apr. 15; v. 261; p. 265.
- Hulst, Mary M., Omaha, Nebr. Newspaper-section. No. 124,541; Feb. 25; v. 259; p. 772.
- Hulst, Mary M., Omaha, Nebr. Newspaper articles. No. 124,542; Feb. 25; v. 259; p. 772.
- Hump Hair Pin Mfg. Co., The, Chicago, Ill. Hair-pins. No. 125,452; May 20; v. 262; p. 475.
- Hunsaker, Oscar, St. Louis, Mo. Preparation for certain named ailments, and liniment. No. 125,225; Apr. 22; v. 261; p. 796.
- Hunter, Margaret J., Los Angeles, Calif. Corsets. No. 126,018; July 22; v. 264; p. 697.
- Huntington Shoe and Leather Co., Huntington, Ind. Boots and shoes. No. 125,293; May 6; v. 262; p. 165.
- Hunyadi Split Corporation, Wilmington, Del., and New York, N. Y. Certain named chemicals, medicines, and pharmaceutical preparations. No. 124,309; Feb. 4; v. 259; p. 178.
- Hurrell, William, Norwich, England. Infants', girls', boys', ladies' boots, shoes, and slippers made of leather, &c. No. 127,420; Nov. 11; v. 268; p. 372.
- Hurst, Percy E., Croydon, England. Cigarettes. No. 126,291; Aug. 19; v. 265; p. 452.
- Hyde, Charles L., Plainfield, N. J. Electrically-operated visible-signal device for an automobile or other vehicle. No. 125,654; June 3; v. 261; p. 162.
- Hydraulic Pressed Steel Company, The, Cleveland, Ohio. Automobile-frames. No. 126,169; July 29; v. 264; p. 860.
- Hydraulic Pressed Steel Company, The, Cleveland, Ohio. Concrete-forms. No. 126,170; July 29; v. 264; p. 860.
- Hygeia Respirator Co., The, Passaic, N. J. Masks and respirators. No. 124,970; Apr. 1; v. 261; p. 197.
- Hyman & Ackerman, Lima, Ohio. Poultry food. No. 126,019; July 22; v. 264; p. 697.
- Hyman & Ackerman, Lima, Ohio. Poultry feed. No. 126,020; July 22; v. 264; p. 697.
- Hyman, Manie, New York, N. Y. Cigars, cigarettes, smoking-tobacco. No. 127,620; Nov. 18; v. 268; p. 558.
- Hyman, Maurice N., New York, N. Y. Certain named ladies' wearing-apparel. No. 125,815; June 17; v. 263; p. 478.
- Hyman, Meyer & Hyman, Baltimore, Md. Ladies' and children's hats. No. 125,273; Apr. 29; v. 261; p. 953.
- I. Fleisher & Sons, Cincinnati, Ohio. Thread, yarn, and twist. No. 126,681; Sept. 30; v. 266; p. 735.
- I. Fleischer & Sons, Cincinnati, Ohio. Shoe-laces and narrow fabrics. No. 127,041; Oct. 21; v. 267; p. 479.
- I. Ollendorff Company, New York, N. Y. Watches and watch-movements. No. 126,050; July 22; v. 264; p. 698.
- I. B. Kleinert Rubber Company, New York, N. Y. Baby-pants. No. 127,565; Nov. 11; v. 268; p. 377.
- I. E. Palmer Co., The, Middletown, Conn. Woven hammock fabrics. No. 124,886; Apr. 1; v. 261; p. 198.
- Ideal Hosiery Company, Elizabeth City, N. C. Men's half-hose. No. 127,421; Nov. 11; v. 268; p. 372.
- Ideal Linen Mesh Company, Poughkeepsie, N. Y. Linen-mesh underwear. No. 124,723; Mar. 11; v. 260; p. 387.
- Ideal Linen Mesh Company, Poughkeepsie, N. Y. Linen-mesh underwear. No. 126,021; July 22; v. 264; p. 697.
- Ideal Marketeria Company, Lockport, N. Y. Certain named foods. No. 125,655; June 3; v. 263; p. 162.
- Ideal Sheet Metal Works, Chicago, Ill. Radiators for automobiles. No. 127,954; Dec. 16; v. 269; p. 542.
- Ideal Specialties Manufacturing Corporation, New York, N. Y. Certain named paper and stationery supplies. No. 124,543; Feb. 25; v. 259; p. 772.
- Ideal Tire & Rubber Company, The, Cleveland, Ohio. Rubber tires and tubes for pneumatic tires. No. 125,656; June 3; v. 263; p. 162.
- Idol Toilet Co., New York, N. Y. Hair-dressings. No. 127,064; Oct. 21; v. 267; p. 479.
- Illinois Watch Case Company, Elgin, Ill. Watchcases. No. 124,310; Feb. 4; v. 259; p. 178.
- Imperial Mattress Company, Sugar Land, Tex. Mattresses. No. 124,458; Feb. 18; v. 259; p. 571.
- Imperial Typewriter Company Limited, Leicester, England. Type and type-wheels for type-writers, check-writing, &c., machines. No. 124,311; Feb. 4; v. 259; p. 178.
- Independent Cracker & Biscuit Co., San Francisco, Calif. Crackers and biscuits. No. 127,280; Nov. 4; v. 268; p. 187.
- Inderrieden Canning Co., Chicago, Ill. Canned corn, canned beans and pork with tomato sauce. No. 126,292; Aug. 19; v. 265; p. 452.
- Indiana Condensed Milk Co., Indianapolis, Ind. Canned evaporated milk. Nos. 125,145-6; Apr. 15; v. 261; p. 265.
- Insular Packing Co., New York, N. Y. Canned sardines. No. 124,198; Jan. 21; v. 258; p. 641.
- Insulating Manufacturing Company, Salt Lake City, Utah. Certain named construction materials. No. 126,293; Aug. 19; v. 265; p. 453.
- Insulating Materials Company, Detroit, Mich. Roofing-cement for repair of roofs. No. 126,294; Aug. 19; v. 265; p. 453.
- Insulating Materials Company, Detroit, Mich. Dry water-color wall-paint and calcimine, dry and oil colors. No. 126,698; Sept. 30; v. 266; p. 735.
- Inter-State Optical Corporation, Brooklyn, N. Y. Optical goods, eye-glasses and fittings, &c. No. 124,724; Mar. 11; v. 260; p. 387.
- International Art Publishing Company, Philadelphia, Pa. Certain named coupon-books. No. 124,544; Feb. 25; v. 259; p. 772.
- International Cork Company, Brooklyn, N. Y. Cork stoppers. No. 127,065; Oct. 21; v. 267; p. 479.
- International Cotton Mills, Boston, Mass. Duck. No. 125,936; July 15; v. 264; p. 531.



- International Harvester Company of America, Chicago, Ill. Monthly periodical. Nos. 127,955-7; Dec. 16; v. 269; p. 542.
- International Lubricating Company, Port Huron, Mich. Lubricating oils and grease. No. 127,622; Nov. 18; v. 268; p. 558.
- International Magazine Company, New York, N. Y. Monthly magazine. No. 124,102; Jan. 14; v. 258; p. 444.
- International Milling Company, New Prague, Minn. Wheat, &c., flours, cornmeal, rolled oats. No. 125,057; Apr. 8; v. 261; p. 406.
- International Printing Pressmen and Assistants' Union of North America, Pressmen's Home, Tenn. Printed books, pamphlets, and circulars. No. 124,248; Jan. 28; v. 258; p. 810.
- International Silver Company, Jersey City, N. J. Un-plated base-alloy tableware. No. 126,699; Sept. 30; v. 266; p. 735.
- International Silver Company, Jersey City, N. J., and Meriden, Conn. Table-knives of base metal. No. 126,939; Oct. 14; v. 267; p. 335.
- International Stock Food Co., Minneapolis, Minn. Stock-food tonic. No. 125,453; May 20; v. 262; p. 475.
- International Sugar Feed Co., Minneapolis, Minn. Ready ration and dairy feed. No. 124,101; Jan. 14; v. 258; p. 444.
- International Sugar Feed Co., Minneapolis, Minn. Dairy cattle, and hog feeds. No. 124,103; Jan. 14; v. 258; p. 444.
- International Trade Developer, Chicago, Ill. Publication. No. 125,147; Apr. 15; v. 261; p. 626.
- Interstate Bag Co., Walden, N. Y. Half-bags with paper-cord or cord handles. No. 128,087; Dec. 23; v. 269; p. 697.
- Interstate Cotton Oil Refining Co., Sherman, Tex. Shortening compound. No. 128,244; Dec. 30; v. 269; p. 881.
- Interstate Iron & Steel Co., Chicago, Ill. Certain named hardware, &c. No. 124,971; Apr. 1; v. 261; p. 197.
- Intravenous Products Company, The, Denver, Colo. Preparation for the treatment of rheumatism. No. 124,387; Feb. 11; v. 259; p. 380.
- Intravenous Products Company, The, Denver, Colo. Preparation for the treatment of varicose veins. No. 124,388; Feb. 11; v. 259; p. 380.
- Intravenous Products Company, The, Denver, Colo. Nerve-tonic. No. 127,748; Dec. 2; v. 269; p. 186.
- Intravenous Products Company, The, Denver, Colo. Heart-stimulant. No. 127,749; Dec. 2; v. 269; p. 186.
- Iodent Chemical Company, Detroit, Mich. Tooth-paste. No. 127,621; Nov. 18; v. 268; p. 558.
- Iron City Products Company, Pittsburgh, Pa. Thrust-bearings. No. 124,312; Feb. 4; v. 259; p. 178.
- Iron City Products Company, Pittsburgh, Pa. Jacks. No. 127,422; Nov. 11; v. 268; p. 372.
- Iroquois Brewing Company, Buffalo, N. Y. Malt beverages, extracts, and liquors. Nos. 127,192-3; Oct. 21; v. 267; p. 483.
- Irvine Brush Company, Chicago, Ill. Tooth, nail, and hair brushes. No. 127,281; Nov. 4; v. 268; p. 187.
- Irvine, George H., Detroit, Mich. Automobile-body and furniture polishes. No. 125,742; June 10; v. 263; p. 327.
- Irving Iron Works Company, Long Island City, N. Y. Metal floorings or gratings. No. 125,816; June 17; v. 263; p. 478.
- Irwin-Harrisons & Crosfield, Inc., New York, N. Y.; Boston, Mass.; Philadelphia, Pa.; Chicago, Ill., and San Francisco, Cal. Tea. No. 124,725; Mar. 11; v. 260; p. 387.
- Isaac D. Allen Company, Boston, Mass. Zephyr-finish Germantown wool. No. 124,069; Jan. 14; v. 258; p. 443.
- Isaac Kubie Company, New York, N. Y. Condensed milk. No. 127,846; Dec. 9; v. 269; p. 388.
- Isaly Dairy Company, The, Marion, Ohio. Butter. No. 124,930; Mar. 25; v. 260; p. 729.
- Iserson, A. S., New York, N. Y. Certain named clothing for women. No. 124,249; Jan. 28; v. 258; p. 810.
- Island Petroleum Company, Baltimore, Md. Illuminating and lubricating oils and greases. No. 127,844; Dec. 9; v. 269; p. 388.
- Israel, Miller & Co., Fall River, Mass., and New York, N. Y. Certain named clothing for women, misses, and children. No. 126,435; Aug. 26; v. 265; p. 629.
- Italian Drugs Importing Co., New York, N. Y. Tonic to alleviate neurasthenia, hysteria, &c. No. 126,022; July 22; v. 264; p. 697.
- Italian Food Products Co., Los Angeles, Calif. Concentrated tomato paste. No. 125,058; Apr. 8; v. 261; p. 406.
- Italian Vineyard Company, Los Angeles, Calif. Fermented sweet wines. No. 127,238; Oct. 28; v. 267; p. 644.
- J. Baker & Sons Inc., Evansville, Ind. Work-clothes for men, boys, and children. No. 125,957; July 22; v. 264; p. 695.
- J. Chas. McCullough Seed Company, The, Cincinnati, Ohio. Seed. No. 124,558; Feb. 25; v. 259; p. 773.
- J. Early Wood, Inc., New York, N. Y. Certain named chemicals, &c. No. 126,505; Aug. 26; v. 265; p. 631.
- J. Geo. Leyner Engineering Works Company, The, Littleton, Colo. Pneumatic motor-hoists. No. 127,852; Dec. 9; v. 269; p. 388.
- J. Kridel, Sons & Co., New York, N. Y. Satins and venetians. No. 125,822; June 17; v. 263; p. 478.
- J. Sklar Manufacturing Co., Brooklyn, N. Y. Certain named surgical, dental, and veterinary instruments. No. 126,579; Sept. 16; v. 266; p. 447.
- J. Telenga Export & Trading Corporation, New York, N. Y. Tallow, refined peanut, &c., oils used as food and ingredients of foods. No. 124,163; Jan. 14; v. 258; p. 446.
- J. Telenga Export & Trading Corporation, New York, N. Y. Certain named abrasive, detergent, and polishing materials. No. 124,350; Feb. 4; v. 259; p. 179.
- J. A. Migel, Inc., New York, N. Y. Broad silk in the piece and cotton piece goods. No. 124,978; Apr. 1; v. 261; p. 198.
- J. A. Migel, Inc., New York, N. Y. Certain named ladies' and misses' outer garments. No. 125,078; Apr. 8; v. 261; p. 407.
- J. A. Migel, Inc., New York, N. Y. Silk and cotton goods in the piece. No. 125,469; May 20; v. 262; p. 475.
- J. A. Migel, Inc., New York, N. Y. Ladies' and misses' outer garments. No. 125,470; May 20; v. 262; p. 475.
- J. A. Migel, Inc., New York, N. Y. Silk and cotton goods in the piece. No. 125,471; May 20; v. 262; p. 475.
- J. A. Migel, Inc., New York, N. Y. Certain named clothing for ladies and misses. No. 125,472; May 20; v. 262; p. 475.
- J. A. Migel, Inc., New York, N. Y. Broad silk in the piece. No. 125,473; May 20; v. 262; p. 476.
- J. A. Migel, Inc., New York, N. Y. Certain named clothing. No. 126,882; Oct. 7; v. 267; p. 179.
- J. A. Migel, Inc., New York, N. Y. Women's and misses' suits and skirts for outer wear, gloves, &c. No. 127,447; Nov. 11; v. 268; p. 373.
- J. A. Migel, Inc., New York, N. Y. Broad silk in the piece, silk and cotton, and cotton piece goods. No. 128,127; Dec. 23; v. 269; p. 698.
- J. B. Williams Company, Glastonbury, Conn. Toilet creams. No. 127,800; Dec. 2; v. 269; p. 188.
- J. C. Ayer Co., Lowell, Mass. Hair-tonic. No. 126,385; Aug. 26; v. 265; p. 627.
- J. C. Ayer Co., Lowell, Mass. Preparation for treatment of affections of the lungs and throat. No. 126,386; Aug. 26; v. 265; p. 627.
- J. C. Ayer Co., Lowell, Mass. General tonic and preparation for treating diseases arising from certain conditions of the system. No. 126,387; Aug. 26; v. 265; p. 627.
- J. C. Francesconi & Company, New York, N. Y. Paraffin-wax and certain named vegetable waxes, &c. No. 126,278; Aug. 19; v. 265; p. 452.
- J. D. Hollingshead Co., Chicago, Ill. Certain named receptacles. No. 125,445; May 20; v. 262; p. 475.
- J. E. Shoemaker Co., San Francisco, Calif. Cotton-seed salad-oil, mayonnaise dressing, &c. No. 126,080; July 22; v. 264; p. 699.
- J. F. Friedel Paper Box Company, Syracuse, N. Y. Collapsible boxes. No. 124,092; Jan. 14; v. 258; p. 443.
- J. F. Haig & Co. Ltd., Belfast, Ireland. Gents' dress, negligee, and work shirts, collars, cuffs, &c. No. 127,409; Nov. 11; v. 258; p. 372.
- J. F. Lalla Co., Chicago, Ill. Canned fruits, vegetables, and salmon. No. 127,075; Oct. 21; v. 267; p. 480.
- J. H. Rand Corp'n, North Tonawanda, N. Y. Index-tabs. No. 124,761; Mar. 11; v. 260; p. 388.
- J. J. Badenoch Co., Chicago, Ill. Cattle food. No. 124,440; Feb. 18; v. 259; p. 571.
- J. J. Badenoch Co., Chicago, Ill. Stock and poultry feed. No. 125,862; June 24; v. 263; p. 631.
- J. J. Wittwer & Co., Seattle, Wash. Finger-nail polish. No. 127,801; Dec. 2; v. 269; p. 188.
- J. L. Hopkins & Company, New York, N. Y. Extract white-pine compound. No. 125,448; May 20; v. 262; p. 475.
- J. L. Owens Company, Minneapolis, Minn. Grain cleaners and separators. No. 126,460; Aug. 26; v. 265; p. 629.
- J. L. Owens Company, Minneapolis, Minn. Grain cleaners and separators. No. 126,604; Sept. 23; v. 266; p. 593.
- J. L. Stifel & Sons, Wheeling, W. Va. Prints, drills, and denims in the piece. No. 126,908; Oct. 7; v. 267; p. 179.
- J. S. Barnett & Sons, Inc., Lynn, Mass. Finished calf, kip, colt, sheep, kid, and side leather. No. 124,079; Jan. 14; v. 258; p. 443.
- J. S. Brown Mercantile Co., Denver, Colo. Certain named foods. No. 126,255; Aug. 19; v. 265; p. 451.
- J. S. McKenzie & Co., Inc., New York, N. Y. Laundry bluing. No. 126,034; July 22; v. 264; p. 697.
- J. S. Turner Manufacturing Co., Lowell, Mass. Leather belting. Nos. 124,791-3; Mar. 11; v. 260; p. 389.
- J. S. Turner Manufacturing Co., Lowell, Mass. Leather belting. No. 125,106; Apr. 8; v. 261; p. 408.
- J. S. Tyree, Chemist, Inc., Washington, D. C. Antiseptic powders. No. 127,796; Dec. 2; v. 269; p. 187.
- J. T. Polk Company, Greenwood, Ind. Certain named canned vegetables and meat. No. 125,166; Apr. 15; v. 261; p. 626.
- J. W. Elchenbusch Co., Inc., Chicago, Ill. Suitcases, grips, and hand-bags. No. 125,211; Apr. 22; v. 261; p. 795.
- Jaburg Brothers, New York, N. Y. Certain named foods. No. 124,931; Mar. 25; v. 260; p. 729.



## Alphabetical list of registrants of trade-marks—Continued.

- Jack Daniel Distilling Company, St. Louis, Mo. Whisky. No. 125,797; June 17; v. 263; p. 477.
- Jackson, Genevieve, Los Angeles, Calif. Bread. No. 126,295; Aug. 19; v. 265; p. 453.
- Jackson & Vesey, New York, N. Y. Cakes, cookies, doughnuts, crullers, pastry. No. 124,972; Apr. 1; v. 261; p. 197.
- Jacob Doll & Sons, New York, N. Y. Certain named musical instruments. No. 124,520; Feb. 25; v. 259; p. 771.
- Jacobs, Benjamin W., New York, N. Y. Liquid surface-hardener for cement and concrete. No. 124,545; Feb. 25; v. 259; p. 772.
- Jacobs Candy Company, Ltd., New Orleans, La. Candy. No. 127,623; Nov. 18; v. 268; p. 558.
- Jacobs Candy Company, Ltd., New Orleans, La. Candy. Nos. 127,750-1; Dec. 2; v. 269; p. 186.
- Jacobs, Charles D., New York, N. Y. Writing and printing paper. No. 126,296; Aug. 19; v. 265; p. 453.
- Jacobs, Charles M., Springfield, Mass. Medicinal preparation for the alleviation of systemic blood disorders. No. 126,700; Sept. 30; v. 266; p. 735.
- James A. Harpor Supply Company, The, Kansas City, Mo. Certain named non-alcoholic beverages. No. 124,243; Jan. 28; v. 258; p. 810.
- James A. McAteer & Sons, Inc., Pittsburgh, Pa. Coffee and tea. No. 124,861; Mar. 18; v. 260; p. 556.
- James R. Clow & Sons, Chicago, Ill. Radiators. No. 127,267; Nov. 4; v. 268; p. 187.
- James C. Kellogg, New York, N. Y. Laundry bluing. No. 125,228; Apr. 22; v. 261; p. 796.
- James Cycle Co. Limited, Birmingham, England. Bicycles, motorcycles, tricycles, side cars. No. 127,423; Nov. 11; v. 268; p. 372.
- James F. White & Company, Inc., New York, N. Y. Table damask, cloths, and tops, napkins. No. 128,203; Dec. 23; v. 269; p. 701.
- James H. Boye Manufacturing Company, Chicago, Ill. Curtain-fixtures, stair-carpet fasteners, sash-holders. No. 124,953; Apr. 1; v. 261; p. 197.
- James H. Rhodes & Company, Chicago, Ill. Felt wheels and cotton buffs. No. 126,470; Aug. 26; v. 265; p. 630.
- James J. Regan Mfg. Co., The, Rockville, Conn. Certain named woven overcoats and suitings. No. 125,505; May 20; v. 262; p. 476.
- James Lees and Sons Company, Bridgeport, Pa. Worsted and woolen yarn. No. 124,390; Feb. 11; v. 259; p. 380.
- James Lowe Erskine Co., New York, N. Y. Shaving-brushes. No. 124,857; Mar. 18; v. 260; p. 556.
- James Manufacturing Company, Fort Atkinson, Wis. Barn equipment. No. 126,552; Sept. 16; v. 266; p. 446.
- James N. Williamson & Sons Co., Burlington, N. C. Flannels in the piece. No. 125,550; May 20; v. 262; p. 478.
- James R. Kelsner, Inc., New York, N. Y. Men's cravats. Nos. 126,026-7; July 22; v. 264; p. 697.
- James R. Kelsner, Inc., New York, N. Y. Handkerchiefs. No. 127,960; Dec. 16; v. 269; p. 542.
- James S. Kirk & Company, Chicago, Ill. Toilet and household soap. No. 124,549; Feb. 25; v. 259; p. 772.
- Jamestown Propeller Company, The, Jamestown and Falconer, N. Y. Airplane-propellers. No. 124,391; Feb. 11; v. 259; p. 380.
- Janet Chocolate Company, The, Cincinnati, Ohio. Chocolate and cocoa. No. 126,701; Sept. 30; v. 266; p. 735.
- Janney & Burrough, Inc., Philadelphia, Pa. Sole-leather. Nos. 127,624-5; Nov. 18; v. 268; p. 558.
- Jas. H. Forbes Tea & Coffee Co., St. Louis, Mo. Coffee. No. 126,682; Sept. 30; v. 266; p. 735.
- Jellico Clothing Manufacturing Co., Jellico, Tenn. Overalls and jumpers. No. 125,817; June 17; v. 263; p. 478.
- Jellico Clothing Manufacturing Co., Jellico, Tenn. Overalls. No. 126,864; Oct. 7; v. 267; p. 178.
- Jenckes Knitting Machine Co., Pawtucket, R. I. Knitting-machines. No. 126,171; July 29; v. 264; p. 860.
- Jenkins, John J., Los Angeles, Cal. Glutinous spherical fish-bait in imitation of salmon-eggs. No. 124,250; Jan. 28; v. 258; p. 810.
- Jennings & Company, Inc., Boston, Mass. Dyestuffs. Nos. 125,454-5; May 20; v. 262; p. 475.
- Jennings Manufacturing Company, Grand Rapids, Mich. Chemicals, medicines, &c. Nos. 127,752-3; Dec. 2; v. 269; p. 186.
- Jennings, Raymond A., Mattoon, Ill. Eggs. No. 126,297; Aug. 19; v. 265; p. 453.
- Jensen Creamery Machinery Company, Long Island City, N. Y. Coolers and ice-cream freezers. No. 124,848; Mar. 18; v. 260; p. 556.
- Jersey Silk Mills, New York, N. Y. Broad silks in the piece. No. 126,865; Oct. 7; v. 267; p. 178.
- Jewish Agricultural and Industrial Aid Society, New York, N. Y. Monthly magazines. No. 127,066; Oct. 21; v. 267; p. 479.
- Jiffy Life Belt Mfg. Corp., New York, N. Y. Life-belts and a sealed air-tube for charging the same. No. 126,702; Sept. 30; v. 266; p. 735.
- Jiffy Pen Company, Sioux City, Iowa. Fountain pens. No. 126,703; Sept. 30; v. 266; p. 735.
- Joel Bally Davis Company, Philadelphia, Pa. Leather, knitted, and woven gloves, shirts, &c. No. 127,282; Nov. 4; v. 268; p. 187.
- Johansson, Carl E., Eskilstuna, Sweden. Drills, dies, machine-tools, &c. No. 126,172; July 29; v. 264; p. 860.
- John A. Salzer Seed Company, La Crosse, Wis. Seeds. No. 125,677; June 3; v. 263; p. 163.
- John C. Dettra & Company, Inc., Oaks, Pa. Flags. No. 124,691; Mar. 11; v. 260; p. 386.
- John C. Dettra & Company, Inc., Oaks, Pa. Flags. No. 125,628; June 3; v. 263; p. 161.
- John Chmiell Co., Boston, Mass. Liniment for certain named ailments. No. 125,127; Apr. 15; v. 261; p. 265.
- John D. Emack Co., The, Philadelphia, Pa. Roofing-slate. No. 127,927; Dec. 16; v. 269; p. 542.
- John E. King Coffee Co., Detroit, Mich. Coffee. No. 124,727; Mar. 11; v. 260; p. 387.
- John F. Bauer Co., The, Elmira, N. Y. Cereal food-drink. No. 126,244; Aug. 19; v. 265; p. 451.
- John H. Lansing & Co., Inc., Amsterdam, N. Y. Sweaters. No. 127,077; Oct. 21; v. 267; p. 480.
- John H. Meyer & Co., Inc., New York, N. Y. Cotton piece goods. No. 124,977; Apr. 1; v. 261; p. 198.
- John H. Wilkins Company, Washington, D. C. Coffee. No. 125,009; Apr. 1; v. 261; p. 199.
- John Hoberg Company, Green Bay, Wis. Toilet-paper, paper towels and napkins. No. 125,224; Apr. 22; v. 261; p. 796.
- John J. Hildebrandt Co., The, Logansport, Ind. Spinners and artificial flies used for fish-bait. No. 127,190; Oct. 21; v. 267; p. 483.
- John J. White, Inc., Newark, N. J., and New York, N. Y. Saccharin. No. 125,262; Apr. 22; v. 261; p. 797.
- John Morrell & Co., Ottumwa, Iowa. Canned goods. No. 127,094; Oct. 21; v. 267; p. 480.
- John Morrell & Company, Ottumwa, Iowa. Nut-margarin. No. 124,979; Apr. 1; v. 261; p. 198.
- John Morrell & Company, Ottumwa, Iowa. Vegetable shortening. No. 127,641; Nov. 18; v. 268; p. 559.
- John O. Notari & Co., Chicago, Ill. Canned olive-oil. No. 127,102; Oct. 21; v. 267; p. 480.
- John Pritzlaff Hardware Co., Milwaukee, Wis. Cutlery, tools, &c. No. 126,955; Oct. 14; v. 267; p. 336.
- John Renz & Co., Astoria, N. Y. Salve for piles, burns, sores, &c. No. 125,510; May 20; v. 262; p. 477.
- John Russell Cutlery Company, Turners Falls, Mass. Certain named knives made wholly or partly of precious metals or plated with same. No. 126,471; Aug. 26; v. 265; p. 630.
- John Russell Cutlery Company, Turners Falls, Mass. Certain named cutlery and table knives and forks. No. 126,472; Aug. 26; v. 265; p. 630.
- John Russell Cutlery Company, Turners Falls, Mass. Certain named tableware made wholly or partly of or plated with precious metals. No. 126,473; Aug. 26; v. 265; p. 630.
- John Russell Cutlery Company, Turners Falls, Mass. Cutlery. No. 126,764; Sept. 30; v. 266; p. 737.
- John Russell Cutlery Company, Turners Falls, Mass. Table, carving, &c., knives. No. 126,765; Sept. 30; v. 266; p. 737.
- John Russell Cutlery Company, Turners Falls, Mass. Pen and pocket knives. Nos. 126,766-70; Sept. 30; v. 266; p. 737.
- John Russell Cutlery Company, Turners Falls, Mass. Butcher-knives. No. 126,771; Sept. 30; v. 266; p. 737.
- John S. Brown & Sons, Limited, Belfast, Ireland. Certain named articles made of cotton and linen. No. 125,721; June 10; v. 263; p. 327.
- John S. Brown & Sons, Limited, Belfast, Ireland. Plain cotton piece goods. No. 127,906; Dec. 16; v. 269; p. 541.
- John Scott & Co., Inc., Philadelphia, Pa. Canned fruits and vegetables. No. 125,941; July 15; v. 264; p. 531.
- John Wanamaker, New York, New York, N. Y. Air-compressing engines. No. 124,803; Mar. 11; v. 260; p. 389.
- John Wanamaker, Philadelphia, Philadelphia, Pa. Dresses for women, misses, and children. No. 127,300; Nov. 4; v. 268; p. 188.
- John Wanamaker, New York, New York, N. Y. Corsets, brassieres, and bust-supporters. No. 127,538; Nov. 11; v. 268; p. 376.
- Johnson, Cowdin & Co., New York, N. Y. Ribbons. Nos. 125,743-4; June 10; v. 263; p. 327.
- Johnson, Cowdin & Co., New York, N. Y. Ribbons. No. 126,023; July 22; v. 264; p. 697.
- Johnson-Earl-Meyers Company, Pittsburgh, Pa. Coffee. No. 127,626; Nov. 18; v. 268; p. 558.
- Johnson-Earl-Meyers Company, Pittsburgh, Pa. Blended and roasted coffee. No. 127,627; Nov. 18; v. 268; p. 558.
- Johnson-Earl-Meyers Company, Pittsburgh, Pa. Roasted coffee. No. 127,628; Nov. 18; v. 268; p. 558.
- Johnson, Frank M., Fort Worth, Tex. Dental cream or tooth-paste. No. 124,549; Feb. 25; v. 259; p. 772.
- Johnson & Johnson, New Brunswick, N. J. Medicinal plasters. No. 126,024; July 22; v. 264; p. 697.
- Johnson, John S., Bismarck, N. D. Medicinal preparation for sweeney, spavin, &c. No. 127,629; Nov. 18; v. 268; p. 558.



- Johnstone, Robert L., New York, N. Y. Chewing-gum. No. 124,726; Mar. 11; v. 260; p. 387.
- Jointless Fire Brick Company, Chicago, Ill. Fire-resisting cement for forming furnace-linings. No. 127,425; Nov. 11; v. 268; p. 372.
- Jones, Harry, Little Rock, Ark. Medicine for rheumatism. No. 127,754; Dec. 2; v. 269; p. 186.
- Jones, Joseph F., La Grange, Ill. Children's coasters. No. 128,088; Dec. 23; v. 269; p. 697.
- Jones, Joseph O., Cincinnati, Ohio. Internal preparation for lumbago, backache, and rheumatic pains. No. 124,392; Feb. 11; v. 259; p. 380.
- Jos. Molkenhuth & Sons, Newark, N. J. Razors and razor-blades. No. 125,749; June 10; v. 263; p. 328.
- Joseph Burnett Company, Boston, Mass. Flavoring compounds. No. 125,614; June 3; v. 263; p. 161.
- Joseph C. Paulus and Company, Philadelphia, Pa. Dressing for leather and belting. No. 126,193; July 29; v. 264; p. 861.
- Joseph Gitter Co., New York, N. Y. Ladies' hats. No. 126,424; Aug. 26; v. 265; p. 628.
- Joseph Krieg-Fink Co., Inc., Jersey City, N. J. Non-intoxicating maltless beverage. No. 126,440; Aug. 26; v. 265; p. 629.
- Joseph-Louis & Co., New York, N. Y. Certain named clothing. No. 125,071; Apr. 8; v. 261; p. 406.
- Joseph W. Schloss Co., New York, N. Y. Mechanical hair wavers or curlers. No. 125,915; July 8; v. 264; p. 349.
- Josephine Le Fevre Company, Inc., Philadelphia, Pa. Face powder and cream, face-powder compacts, rouge, cold-cream. No. 124,396; Feb. 11; v. 259; p. 380.
- Josephson, Henry, Elizabeth, N. J. Powdered cleaner for white shoes. No. 126,436; Aug. 26; v. 265; p. 629.
- Juddins, Walter V., Boston, Mass. Ribbons. Nos. 127,958-9; Dec. 16; v. 269; p. 542.
- Julius Kayser & Co., New York, N. Y. Hosiery. No. 124,548; Feb. 25; v. 259; p. 772.
- Julius Kayser & Co., New York, N. Y. Fabric gloves. No. 127,562; Nov. 11; v. 268; p. 377.
- Julius Kayser & Co., New York, N. Y. Hosiery. No. 128,089; Dec. 23; v. 269; p. 697.
- Julius Schmid, Incorporated, New York, N. Y. Face-powders. Nos. 126,077-8; July 22; v. 264; p. 699.
- Julius Wile Sons & Co., New York, N. Y. Leather boots and shoes. No. 127,552; Nov. 11; v. 268; p. 377.
- Justi, Henry D., Philadelphia, Pa. Artificial teeth and dental articulators. No. 125,226; Apr. 22; v. 261; p. 796.
- Justis, George T., Philadelphia, Pa. Corn cure. No. 124,100; Jan. 14; v. 258; p. 444.
- Juvenile Shoe Corporation of America, The, St. Louis, Mo. Boots, shoes, and sandals. No. 124,251; Jan. 28; v. 258; p. 810.
- Juvenile Shoe Corporation of America, The, St. Louis, Mo. Boots, shoes, and sandals. No. 127,067; Oct. 21; v. 267; p. 479.
- Juvenile Shoe Corporation of America, St. Louis, Mo. Boots, shoes, and sandals of kid, leather, and canvas. Nos. 127,426-7; Nov. 11; v. 268; p. 372.
- K. Holden Co., Monterey, Calif. Canned sardines and tuna fish. Nos. 125,449-50; May 20; v. 262; p. 475.
- K-W Ignition Company, The, Cleveland, Ohio. Contact-points for circuit making and breaking devices of electrical ignition systems. No. 126,551; Sept. 16; v. 266; p. 446.
- Kain and Auinger Company, Cleveland, Ohio. Ventilators of the rotary type for buildings. No. 125,344; May 13; v. 262; p. 309.
- Kansas City Broom Company, Kansas City, Mo. Brooms. No. 127,283; Nov. 4; v. 268; p. 187.
- Kansas City Macaroni Co., Kansas City, Mo. Macaroni and spaghetti. No. 126,298; Aug. 19; v. 265; p. 453.
- Kansas City Medicine Co., Kansas City, Mo. Hair-restorative. No. 127,630; Nov. 18; v. 268; p. 558.
- Kansas City Wholesale Grocery Co., Kansas City, Mo. Rice. No. 124,547; Feb. 25; v. 259; p. 772.
- Kant Slip Company, Manzanola, Colo. Self-vulcanizing patches for pneumatic tires. No. 127,068; Oct. 21; v. 267; p. 479.
- Kaola Company, Portland, Oreg. Cocoanut-butter. No. 125,574; May 27; v. 262; p. 643.
- Kaola Company, Portland, Oreg. Cocoanut-butter. No. 126,025; July 22; v. 264; p. 697.
- Kaola Company, Portland, Oreg. Cocoanut-butter. No. 127,428; Nov. 11; v. 268; p. 373.
- Kardos & Co., New York, N. Y. Publication in the nature of a circular letter. No. 124,104; Jan. 14; v. 258; p. 444.
- Karmen, Bernard H., New York, N. Y. Powder-puffs. No. 126,940; Oct. 14; v. 267; p. 335.
- Karp, Joseph H., New York, N. Y. Disinfectant. No. 125,818; June 17; v. 263; p. 478.
- Karp, Joseph H., New York, N. Y. Soaps. No. 127,069; Oct. 21; v. 267; p. 479.
- Kassman, Maurice P., Ringhamton, N. Y. Preparation for coughs, bronchitis, croup, &c. No. 125,745; June 10; v. 263; p. 328.
- Katcher, Arthur D., New York, N. Y. Infants' and children's headwear. No. 127,429; Nov. 11; v. 268; p. 373.
- Katzenbach & Bullock Company, New York, N. Y. Chemical material for accelerating vulcanization of rubber. No. 127,755; Dec. 2; v. 269; p. 186.
- Katzfey, Gertrude K., Los Angeles, Cal. Hair-tonic. No. 124,393; Feb. 11; v. 259; p. 380.
- Kaufman, Martin, New York, N. Y. Cream or paste for eyebrows and eyelashes. No. 126,866; Oct. 7; v. 267; p. 178.
- Kaufmann Bros. & Bondy, New York, N. Y. Smokers' pipes, cigar and cigarette holders. No. 125,820; June 17; v. 263; p. 478.
- Kawamori, Matasaburo, Sakai, Japan. Soy. (Japanese sauce.) No. 127,284; Nov. 4; v. 268; p. 187.
- Kaynee Company, Cleveland, Ohio. Trunks and cases for containing and displaying merchandise. No. 124,849; Mar. 18; v. 260; p. 556.
- Kee Lox Manufacturing Company, Rochester, N. Y. Carbon-paper. No. 124,850; Mar. 18; v. 260; p. 556.
- Kee Lox Manufacturing Company, Rochester, N. Y. Carbon-paper. No. 125,148; Apr. 15; v. 261; p. 626.
- Keen Drink Mfg. Co., Altus, Okla. Maltless non-alcoholic beverage. No. 125,059; Apr. 8; v. 261; p. 406.
- Keen-Kola Mfg. Co., Altus, Okla. Non-alcoholic maltless beverage. No. 124,459; Feb. 18; v. 259; p. 572.
- Keeran, Charles R., assignor to Keeran Products Company, Chicago, Ill. Refillable pencils and leads therefor. No. 125,149; Apr. 15; v. 261; p. 626.
- Keeran Products Company. (See Keeran, Charles R., assignor.)
- Keet and Rountree Dry Goods Co., Springfield, Mo. Dress-shirts. No. 125,274; Apr. 29; v. 261; p. 953.
- Keet and Rountree Dry Goods Co., Springfield, Mo. Sweaters, knitted or woven headwear and underwear. No. 125,275; Apr. 29; v. 261; p. 953.
- Keet & Rountree Dry Goods Co., Springfield, Mo. Hosiery. No. 125,295; May 6; v. 262; p. 165.
- Keet & Rountree Dry Goods Co., Springfield, Mo. Neckwear. No. 125,296; May 6; v. 262; p. 165.
- Keever Starch Co., The, Columbus, Ohio. Starch. No. 125,227; Apr. 22; v. 261; p. 796.
- Kehoe Preserving Co., Clay City, Ind. Canned vegetables. No. 124,313; Feb. 4; v. 259; p. 178.
- Keith-O'Brien Company, Salt Lake City, Utah. Underwear. No. 125,456; May 20; v. 262; p. 475.
- Keith-O'Brien Company, Salt Lake City, Utah. Certain named furniture. No. 126,300; Aug. 19; v. 265; p. 453.
- Keller, Chas. F., Mechanicsburg, Ohio. Medicine for treatment of goiter. No. 126,704; Sept. 30; v. 266; p. 735.
- Keller Printing Company, New York, N. Y. Clothing-tickets. No. 125,905; July 8; v. 264; p. 349.
- Kelley-Clarke Co. Inc., New York, N. Y. Fruit jams. No. 124,105; Jan. 14; v. 258; p. 444.
- Kellogg, Elias W., Milwaukee, Wis. Chicks and eggs. No. 126,301; Aug. 19; v. 265; p. 453.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Coffee-like beverage. No. 124,106; Jan. 14; v. 258; p. 444.
- Kelly-Springfield Tire Company, New York, N. Y. Pneumatic tires of rubber and fabric. No. 126,302; Aug. 19; v. 265; p. 453.
- Kempenich, Henry, Portland, Oreg. Measuring and scientific appliances. No. 126,941; Oct. 14; v. 267; p. 336.
- Kemper, Charles H., Westport, Conn. Artificial leather. No. 127,961; Dec. 16; v. 269; p. 542.
- Kempshall Supply Company, New York, N. Y. Pen-points. No. 124,199; Jan. 21; v. 258; p. 641.
- Kenmore Wallboard Co., Kenmore, N. Y. Wall-board. No. 127,756; Dec. 2; v. 269; p. 186.
- Kennard, Charles W., Baltimore, Md. Game-board. No. 127,563; Nov. 11; v. 268; p. 377.
- Keratol Company, Newark, N. J. Artificial leather. No. 126,600; Sept. 23; v. 266; p. 593.
- Kerner-Greenwood & Co., Limited, Norfolk, England. Powder for rendering building-cement waterproof. No. 124,252; Jan. 28; v. 258; p. 810.
- Kerr, Archie H., Raleigh, N. C. Medicinal preparation for hogs. No. 126,229; Aug. 5; v. 265; p. 141.
- Kessler Waist Co. Inc., New York, N. Y. Ladies' outer waists. No. 128,090; Dec. 23; v. 269; p. 697.
- Kesting, Harry A., Kansas City, Mo. Unpopped popcorn. No. 125,746; June 10; v. 263; p. 328.
- Keystone Lubricating Company. (See Buzby, Augustus C., assignor.)
- Keystone Lubricating Company, Philadelphia, Pa. Lubricants. No. 126,173; July 29; v. 264; p. 860.
- Kinpos, John, Los Angeles, Calif. Shoe dressings and cleaners, polishes and renewers for leather, gloves, and shoes. No. 125,821; June 17; v. 263; p. 478.
- Kidd, James W., Fort Wayne, Ind. Tonic to build up the human system. No. 126,174; July 29; v. 264; p. 860.
- Kimberly-Clark Co., Neenah, Wis. Fibrous material made from paper-stock and used for surgical dressings. No. 126,706; Sept. 30; v. 266; p. 735.
- Kindler, Charles P., Huntington, Ind. Medicine for the treatment of rheumatism and a blood-purifier. No. 125,457; May 20; v. 262; p. 475.
- King Bros. Shoe Co., Bristol, Tenn. Leather boots and shoes. No. 127,285; Nov. 4; v. 268; p. 187.
- King Chemical Company, Inc., New York, N. Y. Medicinal gases for treatment of diseases of the throat, nose, and lungs. No. 126,303; Aug. 19; v. 265; p. 453.
- King R. Graham, Inc., New York, N. Y. Margarin cooking compound. No. 125,644; June 3; v. 263; p. 162.



*Alphabetical list of registrants of trade-marks—Continued.*

- Kingman, Russell B., Orange, N. J., and San Francisco, Calif. Certain named food products in tins, glass, and packages. No. 126,304; Aug. 19; v. 265; p. 453.
- Kingman, Russell B., Orange, N. J. Maple-sugar. No. 126,868; Oct. 7; v. 267; p. 148.
- Kirschbaum, Michael H., Sioux City, Iowa. Face-cream. No. 126,175; July 29; v. 264; p. 860.
- Kirsten, Ernest, Oakland, Calif. Canned herring, sardines, and dried figs. No. 125,060; Apr. 8; v. 261; p. 406.
- Kirsten, Ernest, Oakland, Calif. Canned sardines in tomato sauce. No. 126,708; Sept. 30; v. 266; p. 735.
- Kivett, Luman V., Meeker, Colo. Preparation for the treatment of hog-cholera. No. 125,061; Apr. 8; v. 261; p. 406.
- Klaas, Max, New York, N. Y. Cutlery. No. 127,845; Dec. 9; v. 269; p. 388.
- Klauber Trading Corporation, The, New York, N. Y. Certain named cutlery, machinery, and tools, and parts thereof. No. 124,314; Feb. 4; v. 259; p. 178.
- Klaxon Company, Newark, N. J. Code-signal transmitters for calls, alarms, &c. No. 127,070; Oct. 21; v. 267; p. 479.
- Klx Manufacturing Company, Chicago, Ill. Rheostats and transformers. No. 124,315; Feb. 4; v. 259; p. 178.
- Klube, Gustav, Chicago, Ill. Trunks, hand-bags, suitcases, and pocket-books. No. 126,305; Aug. 19; v. 265; p. 453.
- Knapp & Baxter, Inc., San Francisco, Calif. Canned salmon and sardines. No. 127,566; Nov. 11; v. 268; p. 377.
- Knox Hat Company, Inc., New York, N. Y. Men's hats. No. 125,458; May 20; v. 262; p. 475.
- Knox Motors Company, Springfield, Mass. Automobiles. No. 126,553; Sept. 16; v. 266; p. 446.
- Kobzina, Marie, Chicago, Ill. Therapeutic salve for cuts, wounds, and bruises. No. 124,932; Mar. 25; v. 260; p. 729.
- Koch, Stephen, New Brunswick, N. J. Healing-salve. No. 126,439; Aug. 26; v. 265; p. 629.
- Koch, William A., Seattle, Wash. Vegetable extract which stabilizes, stimulates, and gives zest to beverages. No. 125,229; Apr. 22; v. 261; p. 796.
- Kochanowski, Joseph, Donora, Pa. Medicinal wax. No. 125,705; June 3; v. 263; p. 164.
- Koehler, Hillard W., Coronado, Cal. Metallic piston, packing, and compression rings for engines. No. 124,728; Mar. 11; v. 260; p. 387.
- Kohlberg, Mrs. Olga, El Paso, Tex. Cigars and cigarettes. No. 128,091; Dec. 23; v. 269; p. 697.
- Kohler, Aaron S., Savannah, Ga. Enameled steelware. No. 127,567; Nov. 11; v. 268; p. 377.
- Kohn & Baer, New York, N. Y. Women's wraps made from dressed skins. No. 126,869; Oct. 7; v. 267; p. 178.
- Kohrs Packing Company, Davenport, Iowa. Ham, bacon, skinned and boiled hams, picnic, boiled picnics, &c. Nos. 124,394-5; Feb. 11; v. 259; p. 380.
- Kohrs Packing Company, Davenport, Iowa. Cured and smoked clear-plate pork. No. 126,709; Sept. 30; v. 266; p. 735.
- Koken Barbers' Supply Company, St. Louis, Mo. Face-cream. No. 124,933; Mar. 25; v. 260; p. 729.
- Koken Barkers' Supply Company, St. Louis, Mo. Dandruff-exterminator. Nos. 127,631-2; Nov. 18; v. 268; pp. 558-9.
- Kon, Ned, Maatschappij tot Exploitatie van Petroleum bronnen in Ned. Indie, The Hague, Netherlands. Benzin. No. 124,316; Feb. 4; v. 259; p. 178.
- Kops Bros., New York, N. Y. Corsets and brassières. No. 126,870; Oct. 7; v. 267; p. 178.
- Koral Manufacturing Company, The, Boston, Mass. Florists' letters, emblems, designs, strips, and decorations. No. 127,568; Nov. 11; v. 268; p. 377.
- Koscherak Siphon Bottle Works, Hoboken, N. J. Bottle stoppers and caps and jar-closures. No. 126,306; Aug. 19; v. 265; p. 453.
- Kotlar, Theodore, Elizabeth, N. J. Preparation for the alleviation of consumption and other lung diseases. No. 126,029; July 22; v. 264; p. 697.
- Krailing, Jacob H., East Haven, Conn. Game-boards. No. 126,554; Sept. 16; v. 266; p. 446.
- Kramer-Fair Milling Co., The, Tonganoxie, Kans. Self-rising wheat-flour. No. 124,460; Feb. 18; v. 259; p. 572.
- Kriel, Hannah E., Baltimore, Md. Lard substitute. No. 126,942; Oct. 14; v. 267; p. 336.
- Krohn-Fechheimer Co., The, Cincinnati, Ohio. Ladies' leather shoes. No. 124,550; Feb. 25; v. 259; p. 772.
- Krover, John M., Stockton, Calif. Tractors. No. 126,555; Sept. 16; v. 266; p. 446.
- Krygier, Andrew A., Milwaukee, Wis. Cough remedies and ointments. No. 126,441; Aug. 26; v. 265; p. 629.
- Kuhn, Edward E., Warsaw, Ind. Deodorant preparation. No. 127,757; Dec. 2; v. 269; p. 186.
- Kullman, Salz & Co. Inc., San Francisco, Cal. Tanned leather. No. 124,108; Jan. 14; v. 258; p. 444.
- Küssner, Marguerite, New York, N. Y. Facial creams. No. 127,758; Dec. 2; v. 269; p. 186.
- L. Heller & Son, Inc., New York, N. Y. Pearls and pearl necklaces, precious, semiprecious, and imitation stones. No. 127,237; Oct. 28; v. 267; p. 644.
- L. A. Young Industries, Inc., Detroit, Mich. Certain named cutlery, machinery, &c. No. 124,808; Mar. 11; v. 260; p. 390.
- L. A. Young Industries, Inc., Detroit, Mich. Power-transmission units. No. 126,810; Sept. 30; v. 266; p. 739.
- L. B. Evans' Son Company, Wakefield, Mass. Play leather shoes for children. No. 126,415; Aug. 26; v. 265; p. 628.
- L. B. Holliday & Co., Limited, Huddersfield, England. Mineral dyes. No. 124,833; Mar. 18; v. 260; p. 555.
- L. C. Blancke Co., Inc., New York, N. Y. Finished and unfinished steel. No. 128,008; Dec. 23; v. 269; p. 695.
- L. C. Chase & Company, Boston, Mass. Artificial leather. No. 124,441; Feb. 18; v. 259; p. 571.
- L. C. Chase & Company, Boston, Mass. Pile fabrics. No. 127,907; Dec. 16; v. 269; p. 541.
- L. P. Larson, Jr., Company, Chicago, Ill. Confection known as mints. No. 125,575; May 27; v. 262; p. 643.
- La Ford Chemical Co., Indianapolis, Ind. Certain named preparations for nourishing the skin. No. 124,734; Mar. 11; v. 260; p. 387.
- La Grange Mills, Red Wing, Minn. Wheat-flour. No. 124,461; Feb. 18; v. 259; p. 572.
- La Grange Mills, Red Wing, Minn. Wheat-flour. No. 127,073; Oct. 21; v. 267; p. 480.
- La Habra Citrus Association, La Habra, Calif. Oranges and lemons. No. 128,246; Dec. 30; v. 269; p. 881.
- Lackawanna Mills, The, Scranton, Pa. Knit underwear in one and two piece garments. No. 124,254; Jan. 28; v. 258; p. 810.
- Laddon, Philip A., Washington, D. C. Prepared or mustard salad-dressing. No. 127,071; Oct. 21; v. 267; p. 479.
- Lagerloef Trading Company, Inc., New York, N. Y. Wood-pulps. No. 125,063; Apr. 8; v. 261; p. 406.
- Lahoud Soap Products Company, Inc., The, New York, N. Y. Soap. No. 126,442; Aug. 26; v. 265; p. 629.
- Laing, Harrar & Chamberlain, Philadelphia, Pa. Cloth and felt spats and overgaiters. No. 127,569; Nov. 11; v. 268; p. 377.
- Laird Linen Corporation, New York, N. Y. Crashes, toweling, towels. No. 127,570; Nov. 11; v. 268; p. 377.
- Lake Mills Milk Company, Lake Mills, Wis. Canned condensed milk. No. 124,852; Mar. 18; v. 260; p. 556.
- Lake of the Woods Milling Company Limited, Montreal, Quebec, Canada. Wheat-flour. No. 127,074; Oct. 21; v. 267; p. 480.
- Lalley Light Corporation, Detroit, Mich. Isolated electric light and power plants and outfits. No. 128,096; Dec. 23; v. 269; p. 698.
- Lamborn & Co., New York, N. Y. Sanitary absorbent gauze. No. 126,556; Sept. 16; v. 266; p. 446.
- Lancaster Mills, Clinton, Mass. Cotton piece goods. No. 125,345; May 13; v. 262; p. 309.
- Lancaster Mills, Clinton, Mass. Cotton piece goods. No. 125,459; May 20; v. 262; p. 475.
- Lancaster Mills, Clinton, Mass. Cotton piece goods. No. 126,176; July 29; v. 264; p. 860.
- Landau, Charles, New York, N. Y. Cigars. No. 124,109; Jan. 14; v. 258; p. 444.
- Landers Brothers Company, The, Toledo, Ohio. Water-proof cotton fabrics. No. 125,064; Apr. 8; v. 261; p. 406.
- Landers, Frary & Clark, New Britain, Conn. Electrically-heated pads for therapeutic use. No. 124,255; Jan. 28; v. 258; p. 810.
- Landers, Frary & Clark, New Britain, Conn. Electrically-heated pads for therapeutic use. No. 124,853; Mar. 18; v. 260; p. 556.
- Landers, Frary & Clark, New Britain, Conn. Electrically-heated appliances. No. 127,076; Oct. 21; v. 267; p. 480.
- Lane Manufacturing Company, Montpelier, Vt. Wood and stone working machinery—namely, sawmills, planers, &c. No. 127,571; Nov. 11; v. 268; p. 377.
- Lane, Norman A., Birmingham, England. Measuring and scientific appliances. No. 126,047; July 22; v. 264; p. 698.
- Lange Canning Co., Eau Claire, Wis. Certain named canned vegetables. No. 125,576; May 27; v. 262; p. 643.
- Larkin, Charles W., New York, N. Y. Snap-fasteners. No. 128,097; Dec. 23; v. 269; p. 698.
- Larus & Brother Company, Richmond, Va. Smoking-tobacco. Nos. 128,094-5; Dec. 23; v. 269; p. 697.
- Las-Stik Patch Mfg. Co., Hamilton, Ohio. Fabric and rubber repair-patches. No. 128,098; Dec. 23; v. 269; p. 698.
- Lassere, Edward, New York, N. Y. Anodyne cream for the treatment of certain named ailments. No. 124,552; Feb. 25; v. 259; p. 772.
- Latrobe Tool Company, Latrobe, Pa. Twist-drills. No. 127,078; Oct. 21; v. 267; p. 480.
- Lauer, Otto, Brooklyn, N. Y. Antiseptic and germicide. No. 126,710; Sept. 30; v. 266; p. 736.
- Laurie, Daniel, Jr., Paterson, N. J. Hair-ribbons. No. 128,099; Dec. 23; v. 269; p. 698.
- Lausmann Remedy Co., G. W., Appleton, Wis. Tonic for poultry and other animals. No. 124,317; Feb. 4; v. 259; p. 178.



- Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 124,256; Jan. 28; v. 258; p. 810.
- Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 125,297; May 6; v. 262; p. 165.
- Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Rye-flour. No. 124,318; Feb. 4; v. 259; p. 178.
- Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Corn-meal. No. 124,854; Mar. 18; v. 260; p. 556.
- Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Corn-meal, barley and corn flours. No. 125,346; May 13; v. 262; p. 309.
- Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Self-rising flour. No. 126,443; Aug. 26; v. 265; p. 629.
- Lawson Manufacturing Company, Pittsburgh, Pa. Gas-operated water-heaters and heating-stoves. No. 125,660; June 3; v. 263; p. 162.
- Layton Pure Food Company, St. Louis, Mo., and East St. Louis, Ill. Baking powder and soda. No. 124,735; Mar. 11; v. 260; p. 387.
- Leavengood Glove & Garment Co., Coshocton, Ohio. Fabric gloves. No. 127,430; Nov. 11; v. 268; p. 373.
- Lederer, Edward B., Providence, R. I. Base-metal key-chains and identification-tag chains. No. 127,431; Nov. 11; v. 268; p. 373.
- Ledger Sons & Co., London, England. Cigars, cigarettes, cheroots, manufactured tobacco. Nos. 125,661-2; June 3; v. 263; p. 162.
- Ledger Sons & Co., London, England. Cigarettes. No. 126,177; July 29; v. 264; p. 860.
- Lee & Edwards, Thonotosassa, Fla. Fresh citrus fruits. No. 124,975; Apr. 1; v. 261; p. 198.
- Lee & Edwards, Thonotosassa, Fla. Fresh citrus fruits. No. 125,065; Apr. 8; v. 261; p. 406.
- Lee, Ronald C., New York, N. Y. Child's wheeled push toys. No. 124,553; Feb. 25; v. 259; p. 772.
- Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa. Dental enamel. No. 126,349; Aug. 19; v. 265; p. 454.
- Lefkovitz, Morris, Chicago, Ill. Medicinal compound for certain named ailments. No. 125,066; Apr. 8; v. 261; p. 406.
- Lefo Chemical Company, Inc., The, Vineburg, Cal. Medicines. No. 124,736; Mar. 11; v. 260; p. 387.
- Leggett & Brother, Incorporated, New York, N. Y. Insecticides and fungicides. No. 127,195; Oct. 21; v. 267; p. 483.
- Lehman-Rosenfeld Co., Cincinnati, Ohio. Solution for acidulating maltless non-alcoholic beverages. No. 124,111; Jan. 14; v. 258; p. 444.
- Leinbach & Cadman, Gloversville, N. Y. Money, sailor leg, and ladies' jewel and safety belts, garter-purses, &c. No. 124,112; Jan. 14; v. 258; p. 444.
- Lemarchand freres & Cie., Treboul, France. Canned sardines in oil. No. 124,737; Mar. 11; v. 260; p. 387.
- Lembke, Carl H. F., Youngstown, Ohio. Medicine used in the treatment of coughs, colds, croup, &c., all affections of the lungs. No. 127,432; Nov. 11; v. 268; p. 373.
- Lennon, John F., Providence, R. I. Wheat-flour. No. 127,962; Dec. 16; v. 269; p. 542.
- Lenox Jewelry Co., Boston, Mass. Bracelets, chatelaine-pins, scarf-pins, fobs, chains, charms, &c. No. 128,103; Dec. 23; v. 269; p. 698.
- Lenox Textile Corporation, New York, N. Y. Cotton piece goods. No. 128,104; Dec. 23; v. 269; p. 698.
- Lentz, William G., West Hoboken, N. J. Fumigating-candles. No. 126,445; Aug. 26; v. 265; p. 629.
- Leo Shapiro & Co., Inc., Minneapolis, Minn. Poison for squirrels, &c. No. 126,777; Sept. 30; v. 266; p. 738.
- Leon A. Kellner & Bro., New York, N. Y. Babies' dresses and hats. No. 126,867; Oct. 7; v. 267; p. 178.
- Leon Brothers, Arecibo, Porto Rico. Aperient reconstituent pills and preparations. No. 127,079; Oct. 21; v. 267; p. 480.
- Leonard & Barrows, Boston, Mass. Leather boots and shoes. No. 125,460; May 20; v. 262; p. 475.
- Leonard Henry Company, Inc., New York, N. Y. Bedspreads. No. 125,347; May 13; v. 262; p. 309.
- Lerner & Goldsmith, New York, N. Y. Ladies' dresses. No. 125,824; June 17; v. 263; p. 478.
- Leshner, Whitman & Co., Inc., New York, N. Y. Piece goods. No. 126,308; Aug. 19; v. 265; p. 453.
- Leshner, Whitman & Co., Inc., New York, N. Y. Piece goods. No. 126,557; Sept. 16; v. 266; p. 446.
- Leshner, Whitman & Co., Inc., New York, N. Y. Fabric made with a cotton warp and a filling of wool, &c. No. 126,601; Sept. 23; v. 266; p. 593.
- Leshner, Whitman & Co., Inc., New York, N. Y. Piece goods. No. 127,963; Dec. 16; v. 269; p. 543.
- Leshner Whitman & Co. Inc., New York, N. Y. Fabric with a cotton warp. No. 128,105; Dec. 23; v. 269; p. 698.
- Lesser & Co., A., New York, N. Y. Hats and caps. No. 125,067; Apr. 8; v. 261; p. 406.
- Lester Piano Company, Philadelphia, Pa. Pianos. No. 127,433; Nov. 11; v. 268; p. 373.
- Letherman-Gelman Company, Canton, Ohio. Bread, &c., flours, cornmeal, wheat-middlings. No. 127,847; Dec. 9; v. 269; p. 388.
- Lever Brothers Company, Portland, Me., and Cambridge, Mass. Soap and soap powder. No. 124,114; Jan. 14; v. 258; p. 444.
- Levi, Holmes W., Washington, D. C. Liniment for sore joints, muscles, cuts, &c. No. 125,068; Apr. 8; v. 261; p. 406.
- Levi Strauss & Co., San Francisco, Cal. Hosiery. No. 124,267; Jan. 28; v. 258; p. 810.
- Levitt, Michael L., Philadelphia, Pa. Eye-lotions. No. 126,446; Aug. 26; v. 265; p. 629.
- Livor, Victor, Attica, Ind. Cigars. No. 127,760; Dec. 2; v. 269; p. 186.
- Levy, Cecilia, New York, N. Y. Women's hats. No. 127,434; Nov. 11; v. 268; p. 373.
- Levy, Louis, New York, N. Y. Ladies' wearing-apparel. No. 126,033; July 22; v. 264; p. 697.
- Lewin Metals Corporation, The, St. Louis, Mo. Solder. No. 127,848; Dec. 9; v. 269; p. 388.
- Lewin Metals Corporation, The, St. Louis, Mo. Marine-nickel bearing metal. No. 127,964; Dec. 16; v. 269; p. 543.
- Lewis, Charles T., Dallas, Tex. Cleaning and polishing preparation for woodwork, &c. No. 127,761; Dec. 2; v. 269; p. 186.
- Lewis, Charles W., Baltimore, Md. Preparation used as a remedy for certain named diseases. No. 127,849; Dec. 9; v. 269; p. 388.
- Lewis County Condensed Milk Co., Lowville, N. Y. Condensed milk. No. 127,435; Nov. 11; v. 268; p. 373.
- Lewis, Edgar P., Boston, Mass. Marshmallow, coconut, and chocolate candies. No. 124,319; Feb. 4; v. 259; p. 178.
- Lewis, Ella, St. Louis, Mo. Certain pharmaceutical preparations for the hair and scalp. No. 126,030; July 22; v. 264; p. 697.
- Lewis, Florence N., New York, N. Y. Talcum powder. No. 125,461; May 20; v. 262; p. 475.
- Lewis, Jessie M., Los Angeles, Calif. Wooden toy animals and birds mounted on wheels. No. 126,558; Sept. 16; v. 266; p. 446.
- Lewiston Bleachery and Dye Works, Lewiston, Me. Cotton piece goods. No. 126,711; Sept. 30; v. 266; p. 736.
- Lewiston Milling Co., Ltd., Lewiston, Idaho, and Asotin, Wash. Wheat-flour. No. 125,348; May 13; v. 262; p. 309.
- Lexington Motor Company, Connersville, Ind. Motor-cars. No. 124,115; Jan. 14; v. 258; p. 444.
- Leyland & Birmingham Rubber Co., Ltd., The, Leyland, England. Pure cut sheet india-rubber, india-rubber bottle-stoppers, sheets, and mats. No. 124,116; Jan. 14; v. 258; p. 444.
- Leyland & Birmingham Rubber Co., Ltd., The, Leyland, England. India-rubber tubing and pressure-tubing, hose-pipe. No. 124,554; Feb. 25; v. 259; p. 772.
- Liberty Accessories Corporation, St. Louis, Mo. Mechanically-operated automobile signal-whistle. No. 124,320; Feb. 4; v. 259; p. 178.
- Liberty Biscuit Company, Allston, Mass. Ice-cream cones. No. 127,762; Dec. 2; v. 269; p. 186.
- Liberty Chemical Works, Chicago, Ill. Carbon-remover, tire-dressing, &c. No. 127,850; Dec. 9; v. 269; p. 388.
- Liberty Salad Oil Company, New York, N. Y. Salad-oils. No. 125,150; Apr. 15; v. 261; p. 626.
- Liberty Starters Corporation, New York, N. Y. Electric starting mechanisms for gasoline or oil engines. No. 127,436; Nov. 11; v. 268; p. 373.
- Liberty Steel Company, The, Warren, Ohio. Sheet and tin mill products. No. 124,738; Mar. 11; v. 260; p. 388.
- Liberty Steel Products Co., Inc., New York, N. Y. Brake-beams for vehicles. No. 127,965; Dec. 16; v. 269; p. 543.
- Liberty Systems Corporation, Edwardsville, Ill. Automatic account-finding machines. No. 125,825; June 17; v. 263; p. 478.
- Liberty Tire & Rubber Company, Green Bay, Wis. Rubber tires. No. 128,106; Dec. 23; v. 269; p. 698.
- Liberty Tool Company, Baltimore and Hagerstown, Md. Pneumatic-hammer attachment, machines for holding rivets, &c. No. 128,107; Dec. 23; v. 269; p. 698.
- Lieberman Mfg. Co., Philadelphia, Pa. Men's suits, overcoats, and pants. No. 125,069; Apr. 8; v. 261; p. 406.
- Ligon, Hinkle & Co., Inc., Petersburg, Va. Certain named clothing. No. 125,826; June 17; v. 263; p. 478.
- Lindahl, Lavick & Company, Chicago, Ill. Cuff-links. No. 127,239; Oct. 28; v. 267; p. 644.
- Linder, Solomon F., Fort Wayne, Ind. Medicine for hog and chicken cholera. No. 126,712; Sept. 30; v. 266; p. 736.
- Lindy Specialty Company, Buffalo, N. Y. Polish for automobiles, furniture, &c. No. 128,108; Dec. 23; v. 269; p. 698.
- Lineham-Conover Company, Worcester, Mass. Corsets, corset-waists, brassieres. No. 126,871; Oct. 7; v. 267; p. 178.
- Lineham-Conover Company, Worcester, Mass. Corsets, corset-waists, and brassieres. No. 128,109; Dec. 23; v. 269; p. 698.
- Linen Thread Co., The, New York, N. Y. Twine. No. 124,555; Feb. 25; v. 259; p. 772.
- Linen Underwear Co. Inc., The, Greenwich, N. Y. Linen underwear. No. 126,872; Oct. 7; v. 267; p. 178.
- Liondale Shirt Co., Inc., New York, N. Y. Men's dress and negligé shirts. No. 128,110; Dec. 23; v. 269; p. 698.



*Alphabetical list of registrants of trade-marks—Continued.*

- Liquid Carbonic Company, Chicago, Ill. Non-alcoholic beverages. No. 127,851; Dec. 9; v. 269; p. 388.
- Lister's Agricultural Chemical Works, Newark, N. J., and New York, N. Y. Fertilizers. No. 127,633; Nov. 18; v. 268; p. 559.
- Littauer Oil Company, Guttentberg, N. J. Edible cotton-seed oil. No. 126,031; July 22; v. 264; p. 697.
- Lloyd Brothers, Cincinnati, Ohio. Neutralizing-cordial for treatment of derangement of stomach and bowels. No. 124,635; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Certain named pharmaceutical preparations. No. 124,636; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Extracts of ergot and a preparation of hydrastis. No. 124,637; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Certain named compound for the treatment of certain affections and conditions. No. 124,638; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Distillate from Apocynum cannabinum. No. 124,639; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Certain named pharmaceutical products. No. 124,640; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Tobacco-distillate for use in the relief of headache, &c. No. 124,641; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Preparation of echi-nacea for surgical uses. No. 124,642; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Preparation of caulophyllum for treatment of amenorrhea, &c. No. 124,643; Mar. 4; v. 260; p. 197.
- Lloyd Brothers, Cincinnati, Ohio. Product of methyl salicylic acid for treatment of sores, ulcers, &c. No. 126,032; July 22; v. 264; p. 697.
- Lober Art Brass & Specialty Co., Toledo, Ohio. Automobile-radiators. No. 124,741; Mar. 11; v. 260; p. 388.
- Lodi Corporations, assignor to The Amolin Company, Lodi, N. J. Toilet powder. No. 126,943; Oct. 14; v. 267; p. 336.
- Loeb & Schoenfeld Company, Wilmington, Del.; Camden, N. J., and New York, N. Y. Handkerchiefs. No. 128,111; Dec. 23; v. 269; p. 698.
- Loesch Brothers, Pahgre Valley Ranch, Montrose county, Colo. Potatoes. No. 124,117; Jan. 14; v. 258; p. 444.
- Lofton, Andrew J., Glendale, Ariz. Preparation for use in the treatment of bloat in cattle. No. 125,070; Apr. 8; v. 261; p. 406.
- Loomis-Beardsley Mfg. Co., The, Columbus, Ohio. Valve-operating tools for internal-combustion engines. No. 125,663; June 3; v. 263; p. 162.
- Loomis, Everts G., Newark, N. J. Watch-crystals. Nos. 124,855-6; Mar. 18; v. 260; p. 556.
- Lonsdale Company, Providence, R. I. Cotton goods by the piece. No. 125,463; May 20; v. 262; p. 475.
- Lorette Corset Co., Chicago, Ill. Corsets. No. 126,873; Oct. 7; v. 267; p. 178.
- Loudonville, Mill & Grain Co., Loudonville, Ohio. Wheat-flour. No. 127,196; Oct. 21; v. 267; p. 483.
- Louis Lucas Company, Inc., Jamestown, N. Y. Aromatic incense. No. 127,763; Dec. 2; v. 269; p. 186.
- Louis Roessel & Co., New York, N. Y. Plushes. No. 126,067; July 22; v. 264; p. 698.
- Louis Roessel & Co., New York, N. Y. Plushes. No. 126,200; July 29; v. 264; p. 861.
- Louis Roessel & Co., New York, N. Y. Silk piece goods. No. 127,986; Dec. 16; v. 269; p. 543.
- Loveland, Winifred V., New York, N. Y. Face-powders, lip-rouge, brow-pencils. No. 127,764; Dec. 2; v. 269; p. 186.
- Lowe Brothers Company, The, Dayton, Ohio. Varnish. No. 125,234; Apr. 22; v. 261; p. 796.
- Lowe, Henry A., Cleveland, Ohio. Machinists' and tool-makers' test-indicators. No. 127,438; Nov. 11; v. 268; p. 373.
- Lubec Sardine Co., Chicago, Ill., and Lubec and Belfast, Me. Canned sardines. No. 124,463; Feb. 18; v. 259; p. 572.
- Lubec Sardine Co., Lubec, Me. Canned sardines. Nos. 126,309-12; Aug. 19; v. 265; p. 453.
- Lubec Sardine Co., Lubec, Me. Canned sardines. No. 126,713; Sept. 30; v. 266; p. 736.
- Lubec Sardine Co., Lubec and Belfast, Me. Canned sardines. No. 124,462; Feb. 18; v. 259; p. 572.
- Lubec Sardine Co., Lubec and Belfast, Me. Canned sardines. No. 127,765; Dec. 2; v. 269; p. 186.
- Lucas Laboratories, Inc., The, New York, N. Y. Intravenous injections. No. 126,447; Aug. 26; v. 265; p. 629.
- Luckett-Wake Tobacco Co., Louisville, Ky. Leaf-tobacco. No. 126,178; July 29; v. 264; p. 860.
- Ludden, William, Boston, Mass. Ointment for diseases of the skin. No. 126,448; Aug. 26; v. 265; p. 629.
- Lundborg Company, New York, N. Y. Perfumery. No. 125,349; May 13; v. 262; p. 310.
- Lunkenheimer Co., The, Cincinnati, Ohio. Water columns and gages. No. 127,080; Oct. 21; v. 267; p. 480.
- Lunkenheimer Co., The, Cincinnati, Ohio. Cutlery, machinery, tools, and parts. No. 127,081; Oct. 21; v. 267; p. 480.
- Lunger, Mary E., Newark, N. J. Therapeutic salve or ointment for felons, &c. No. 126,449; Aug. 26; v. 265; p. 629.
- Lurie Co., Inc., The, New York, N. Y. Dresses for girls and women. No. 124,742; Mar. 11; v. 260; p. 388.
- Lurie, Gustav, New York, N. Y. Snap-fasteners and snap-buttons. No. 124,200; Jan. 21; v. 258; p. 641.
- Lustr-It Corporation, The, Brooklyn, N. Y. Cold-cream, face-powder, face-rouge, lip-stick, &c. No. 127,766; Dec. 2; v. 269; p. 186.
- Lyman, George R., Minneapolis, Minn. Luggage-carriers for automobiles. No. 126,559; Sept. 16; v. 266; p. 446.
- Lynchburg Foundry Company, Lynchburg, Va. Plows. No. 126,944; Oct. 14; v. 267; p. 336.
- Lyon & Healey, Chicago, Ill. Flutes, piccolos, guitars, &c. No. 124,557; Feb. 25; v. 259; p. 772.
- Lyon Metallic Manufacturing Company, Montgomery, Ill. Metal shelving and storage-racks and parts thereof. No. 126,714; Sept. 30; v. 266; p. 736.
- Lyon Metallic Manufacturing Company, Montgomery, Ill. Gear-casings used on machinery and work-benches. No. 126,874; Oct. 7; v. 267; p. 178.
- M. Getz & Co. Inc., San Francisco, Cal. Yeasts. No. 124,094; Jan. 14; v. 258; p. 443.
- M-B Tool Company, Danielson, Conn. Hand screw-drivers. No. 125,104; Apr. 8; v. 261; p. 407.
- M. E. Greenfield Co., New York, N. Y. Clothes. No. 128,075; Dec. 23; v. 269; p. 697.
- M. E. Smith & Co., Inc., Omaha, Nebr. Handkerchiefs. No. 126,902; Oct. 7; v. 267; p. 179.
- M. E. Smith & Co., Inc., Omaha, Nebr. Snap-fasteners. No. 127,990; Dec. 16; v. 269; p. 543.
- M. G. Scoville Sons Company, Ogden, Utah. Clamp for brooms. No. 125,177; Apr. 15; v. 261; p. 626.
- M. N. Mayehoff, Incorporated, Norwalk, Conn. Certain named clothing for men and women. No. 126,230; Aug. 5; v. 265; p. 141.
- M. P. Kuczor & Co. Inc., New York, N. Y. Whole, ground, and mixed spices. No. 126,307; Aug. 19; v. 265; p. 453.
- M. C. D. Borden & Sons, New York, N. Y. Cotton piece goods. No. 125,327; May 13; v. 262; p. 309.
- M. R. & G. Frank, Inc., Providence, R. I. Wearing-apparel for men and women. No. 127,396; Nov. 11; v. 268; p. 371.
- MacAndrews & Forbes Company, Camden, N. J. Coffee. No. 126,716; Sept. 30; v. 266; p. 736.
- MacDonald & Co., San Francisco, Calif. Cocoa. No. 125,155; Apr. 15; v. 261; p. 626.
- MacMillan Chemical Co., Falls City, Nebr. Foot-powder. No. 125,350; May 13; v. 262; p. 310.
- Macbeth-Evans Glass Company, Pittsburgh, Pa. Lenses for automobiles. No. 124,321; Feb. 4; v. 259; p. 178.
- Macbeth-Evans Glass Company, Pittsburgh, Pa. Glass globes, shades, bowls, and reflectors, also glass in flat sheet form. No. 124,398; Feb. 11; v. 259; p. 380.
- Macaulay Fien Milling Co., Rochester, N. Y. Wheat-flour. No. 128,115; Dec. 23; v. 269; p. 698.
- Mag-Rhu Company, Dover, Del., and Pittsburgh, Pa. Preparation for treatment of stomach troubles. No. 125,074; Apr. 8; v. 261; p. 407.
- Maggini, Peter, Lyndhurst, N. J. Fruit extracts for non-alcoholic beverages. No. 126,186; July 29; v. 264; p. 861.
- Magnolia Provision Company, Houston, Tex. Oleaginous compound, a substitute for lard. No. 126,179; July 29; v. 264; p. 860.
- Mahan, Cyril C., Baltimore, Md. Candy. No. 125,748; June 10; v. 263; p. 328.
- Maher & Kessler, New York, N. Y. Children's dresses. No. 125,277; Apr. 29; v. 261; p. 953.
- Mail and Express Company, New York, N. Y. Newspaper-section. No. 127,083; Oct. 21; v. 267; p. 480.
- Makitol Company, Rochester, N. Y. Antiseptics. No. 126,313; Aug. 19; v. 265; p. 453.
- Makris, Basil G., New York, N. Y. Salad-oil, &c. No. 126,314; Aug. 19; v. 265; p. 453.
- Malinda Richie & Co., Jacksonville, Fla. Growing and pressing hair-oil. No. 126,341; Aug. 19; v. 265; p. 454.
- Mallinckrodt, Louis K., Baltimore, Md. Wrapping-paper. No. 124,747; Mar. 11; v. 260; p. 388.
- Malloy, Howard, Chicago, Ill. Cold-water paint. No. 128,116; Dec. 23; v. 269; p. 698.
- Mammoth Spring Milling Company, Mammoth Spring, Ark. Wheat-flour. No. 125,706; June 3; v. 263; p. 164.
- Mangan & Co., New York, N. Y. Toilet water, talcum powder, rouge, &c. No. 124,118; Jan. 14; v. 258; p. 444.
- Mangan & Co., New York, N. Y. Hair-tonic. No. 126,717; Sept. 30; v. 266; p. 736.
- Mangus, Joseph, Beatrice, Nebr. Puncture-curing compound for pneumatic tires. No. 126,945; Oct. 14; v. 267; p. 336.
- Manhattan Hair Cloth Co., New York, N. Y. Cotton, woolen, and silk piece goods and mixtures of same. No. 128,117; Dec. 23; v. 269; p. 698.
- Manhattan Rubber Mfg. Co., The, New York, N. Y. Rubber-impregnated belting. No. 126,560; Sept. 16; v. 266; p. 446.
- Manning Abrasive Company, Inc., Troy, N. Y. Abrasive paper and cloth. No. 126,451; Aug. 26; v. 265; p. 629.
- Manning Abrasive Co. Inc., Troy, N. Y. Paper, cloth, and paper cloth coated with garnet, flint, and emery. No. 127,439; Nov. 11; v. 268; p. 373.



- Mannie Solomon Co., Inc., New York, N. Y. Ladies' and misses' cotton dresses, silk, lawn, &c., fabrics. No. 126,903; Oct. 7; v. 267; p. 179.
- Manteca Packing Co., Manteca, Calif. Canned foods. No. 125,465; May 20; v. 262; p. 475.
- Maori-Oi Manufacturing Company, The, Greenwich, Conn. Hair tonic and stimulant. No. 124,560; Feb. 25; v. 259; p. 773.
- Marathon Fishing & Packing Co., Seattle, Wash. Canned salmon. No. 127,440; Nov. 11; v. 268; p. 373.
- Marathon Tire & Rubber Co., Cuyahoga Falls, Ohio. Belts for supporting outer garments. No. 128,118; Dec. 23; v. 269; p. 698.
- Marburg Brothers, Incorporated, New York, N. Y. Cane and corn knives, machetes, axes, &c. No. 126,876; Oct. 7; v. 267; p. 178.
- Marcks, Albert W., St. Louis, Mo. Furniture, wood-work, and automobile polish. No. 124,322; Feb. 4; v. 259; p. 178.
- Marcus, Louis, Baltimore, Md. Ladies' outer garments. No. 127,441; Nov. 11; v. 268; p. 373.
- Marden, Orth & Hastings Corporation, New York, N. Y. Acid color dyes. No. 124,323; Feb. 4; v. 259; p. 178.
- Marden, Orth & Hastings Corporation, New York, N. Y.; Boston, Mass.; Chicago, Ill.; Philadelphia, Pa.; Cleveland, Ohio; Seattle, Wash., and San Francisco, Calif. Dyes and tanning extracts. No. 126,035; July 22; v. 264; p. 697.
- Marden, Orth & Hastings Corporation, New York, N. Y.; Boston, Mass.; Chicago, Ill.; Philadelphia, Pa.; Cleveland, Ohio; Seattle, Wash., and San Francisco, Calif. Oil for the lubrication of yarn in the process of manufacture. No. 126,036; July 22; v. 264; p. 697.
- Margulies, Larry J., New York, N. Y. Silk piece goods. No. 124,748; Mar. 11; v. 260; p. 388.
- Maricatte et Cie., Indianapolis, Ind. Toilet powders and creams, perfumery, and toilet waters. No. 127,636; Nov. 18; v. 268; p. 559.
- Marie Aceto & Co., New Haven, Conn. Hair-tonic. No. 127,805; Nov. 11; v. 268; p. 369.
- Marine Products Company, Terminal, Calif. Canned sardines. No. 125,466; May 20; v. 262; p. 475.
- Marinello Company of Illinois, Chicago, Ill. Tissue-cream, foot-lotion, deodorant, hair-tonic, perfume, &c. No. 127,637; Nov. 18; v. 268; p. 559.
- Maritime Trading Corporation, New York, N. Y. Stock food. No. 127,286; Nov. 4; v. 268; p. 187.
- Markatos, Spiros C., New York, N. Y. Shoe-polishes. No. 124,119; Jan. 14; v. 258; p. 444.
- Markovitz Bros., Philadelphia, Pa. Knitted, netted, and textile underwear. No. 125,278; Apr. 29; v. 261; p. 953.
- Markovitz Bros., Philadelphia, Pa. Knitted, netted, and textile underwear. No. 126,180; July 29; v. 264; p. 861.
- Marlboro Cotton Mills, McColl, S. C. Yarns. No. 127,442; Nov. 11; v. 268; p. 373.
- Marlboro Cotton Mills, McColl, S. C. Cotton fabric. No. 128,119; Dec. 23; v. 269; p. 698.
- Marlin-Rockwell Corporation, New York, N. Y. Insulated electrical conductors. No. 127,084; Oct. 21; v. 267; p. 480.
- Marquette Cloak & Suit Co., St. Louis, Mo. Women's coats, suits, dresses, skirts. No. 125,299; May 6; v. 262; p. 165.
- Marr, R. A., Norfolk, Va. Encysted wood. No. 126,038; July 22; v. 264; p. 697.
- Marshall Canning Co., Marshalltown, Iowa. Canned corn-kernels. No. 125,077; Apr. 8; v. 261; p. 407.
- Marshall Field & Company, Chicago, Ill. Sheeting, pillow cases and tubing, bedspreads, &c. No. 124,120; Jan. 14; v. 258; p. 444.
- Marshall Field & Company, Chicago, Ill. Feather, hair, cotton, and kapok pillows. No. 124,561; Feb. 25; v. 259; p. 773.
- Marshall Field & Company, Chicago, Ill. Draperies and decorative fabrics. No. 125,467; May 20; v. 262; p. 475.
- Marshall Field & Company, Chicago, Ill. Men's and women's shoes. No. 125,707; June 3; v. 263; p. 164.
- Marshall Field & Company, Chicago, Ill. Burlap bags. No. 126,187; July 29; v. 264; p. 861.
- Marshall Field & Company, Chicago, Ill. Toilet soap. No. 127,393; Nov. 11; v. 268; p. 371.
- Marshall Field & Company, Chicago, Ill. Woven rugs and carpets. No. 127,966; Dec. 16; v. 269; p. 543.
- Marshall Milling Co., Marshall, Minn. Wheat-flour. No. 127,287; Nov. 4; v. 268; p. 188.
- Marshall Ventilated Mattress Company, Chicago, Ill. Upholstery. No. 127,085; Oct. 21; v. 267; p. 480.
- Marshall-Wellis Company, Duluth, Minn. Skies, skee-blindings, push-sticks, toboggans, snow-shoes. No. 124,121; Jan. 14; v. 258; p. 444.
- Marston and Martin, Los Angeles, Cal. Peanut-butter. No. 125,351; May 13; v. 262; p. 310.
- Martí y Torres, Domingo, Barcelona, Spain. Olive-oil. No. 126,793; Sept. 30; v. 266; p. 738.
- Martin, Anson V., Chicago, Ill. Fly-swatters. No. 125,875; June 24; v. 263; p. 631.
- Martini Mfg. Co., Norfolk, Va. Non-alcoholic maltless beverage and syrup for manufacturing same. No. 127,242; Oct. 28; v. 267; p. 644.
- Martorelli, Raffaele, New York, N. Y. Olive-oil. No. 125,156; Apr. 15; v. 261; p. 626.
- Marvel Company, The, Cleveland, Ohio. Hand-operated vacuum-cleaners. No. 124,749; Mar. 11; v. 260; p. 388.
- Marvel Machinery Company, Minneapolis, Minn. Pistons for engines. No. 127,086; Oct. 21; v. 267; p. 480.
- Marvel Products Co., Inc., Pittsburgh, Pa. Preparation for treatment of the bladder and kidneys. No. 124,562; Feb. 25; v. 259; p. 773.
- Mason, Au & Magenheimer Confectionery Manufacturing Co., Brooklyn, N. Y. Chocolates. No. 124,257; Jan. 28; v. 258; p. 810.
- Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 127,087; Oct. 21; v. 267; p. 480.
- Mason, Hosea A., Taunton, Mass. Compound for preventing accumulation of dust or moisture upon windshields and windows. No. 126,181; July 29; v. 264; p. 861.
- Mason, Ulysses G., Birmingham, Ala. Salve for coughs, croup, wounds, &c. No. 126,188; July 29; v. 264; p. 861.
- Massachusetts Chocolate Company, Boston, Mass. Sweet chocolate. No. 124,750; Mar. 11; v. 260; p. 388.
- Massachusetts Chocolate Company, Boston, Mass. Chocolate, chocolate liquor, milk-chocolate, &c. No. 127,443-4; Nov. 11; v. 263; p. 373.
- Massachusetts Cotton Mills, Lowell and Boston, Mass. Cotton piece goods. No. 128,120; Dec. 23; v. 269; p. 698.
- Massaro Macaroni Company, Fulton, N. Y. Macaroni, elbows, spaghetti. No. 127,638; Nov. 18; v. 268; p. 559.
- Master Manufacturing Company, Oakland, Calif. Skid-chains for automobiles. No. 126,946; Oct. 14; v. 267; p. 336.
- Mathers, Frank C., and Jacob Papish, Bloomington, Ind. Coloring substances used to produce an oxidized finish on silverware, &c. No. 125,827; June 17; v. 263; p. 478.
- Mathias Brothers, Philadelphia, Pa. Ladies' hosiery. No. 126,877; Oct. 7; v. 267; p. 178.
- Matsunami, Sadakichi, Kishiwada, Japan. Lenses for spectacles, binoculars, telescopes, &c. No. 127,088; Oct. 21; v. 267; p. 480.
- Matsuura, Ushitaro, Kyoto, Japan. Semifluid unguent preparation for diseases of the skin. No. 127,089; Oct. 21; v. 267; p. 480.
- Matthews, Charles W., Cowes, Isle of Wight, England. Boiler and condenser tube cleaners. No. 127,853; Dec. 9; v. 269; p. 388.
- Matthews, Scott J., Port Clinton, Ohio. Internal-combustion-engine-driven electricity-generating sets. No. 124,858; Mar. 18; v. 260; p. 556.
- Max Mayer & Sons Co., New York, N. Y. Sweaters made from wool, silk, &c. No. 126,880; Oct. 7; v. 267; p. 179.
- Maxwell, Fletcher E., Dallas, Tex. Toy vehicles. No. 126,182; July 29; v. 264; p. 861.
- Mayer, Adolph, New York, N. Y. Children's hats. No. 126,379; Oct. 7; v. 267; p. 179.
- Mayers-Hoffman Co. Inc., New York, N. Y. Young men's coats, trousers, and waistcoats. No. 128,121; Dec. 23; v. 269; p. 698.
- Mayflower Rubber Works Company, Braintree, Mass. Hot-water and face bottles, fountain-syringes, &c. Nos. 126,947-8; Oct. 14; v. 267; p. 336.
- Mayflower Rubber Works Company, Braintree, Mass. Inner tubes and rubber tires for vehicles. Nos. 128,122-3; Dec. 23; v. 269; p. 698.
- Mayhood, John, Chicago, Ill. Cleaning and polishing preparation for furniture, pianos, automobiles, &c. No. 128,124; Dec. 23; v. 269; p. 698.
- Mavrogiannopoulos, Gregorios, New York, N. Y. Hair-tonic. No. 126,718; Sept. 30; v. 266; p. 736.
- McAboy, Mary A., Denver, Colo. Dolls. No. 125,072; Apr. 8; v. 261; p. 406.
- McBrearty, John, Rockland, Mass. Leather shoes, boots, and slippers. No. 126,875; Oct. 7; v. 267; p. 178.
- McCarty Aniline & Extract Company, Inc., New York, N. Y. Liquid preparation for scouring various fabrics. No. 125,151; Apr. 15; v. 261; p. 626.
- McChesney, Harry W., St. Louis, Mo. Medicinal preparation. No. 128,112; Dec. 23; v. 269; p. 698.
- McCleskey, James R., St. Louis, Mo. Confection in the nature of a cake. No. 125,276; Apr. 29; v. 261; p. 953.
- McCord-Brady Co., Omaha, Neb. Certain named foods. No. 124,124; Jan. 14; v. 258; p. 444.
- McCord, Clarence S., Seattle, Wash. Bread, cakes, sandwiches, pies. No. 126,450; Aug. 26; v. 265; p. 629.
- McCormick & Co., Baltimore, Md. Lubricating-oils. No. 124,743; Mar. 11; v. 260; p. 388.
- McCormick & Co., Baltimore, Md. Salve for colds, coughs, pneumonia, burns, &c. No. 125,152; Apr. 15; v. 261; p. 626.
- McCormick & Co., Baltimore, Md. Glycerinized asafetida. No. 125,153; Apr. 15; v. 261; p. 626.
- McCormick & Co., Baltimore, Md. Certain named flavoring extracts for soft drinks, &c. No. 125,154; Apr. 15; v. 261; p. 626.
- McCormick & Co., Baltimore, Md. Effervescent and laxative salts. No. 125,464; May 20; v. 262; p. 475.



*Alphabetical list of registrants of trade-marks—Continued.*

- McCoy, William W., Cincinnati, Ohio. Shoes for men and women. No. 124,744; Mar. 11; v. 260; p. 388.
- McDaniel Milling Co., Carthage, Mo. Wheat-flour. No. 125,235; Apr. 22; v. 261; p. 796.
- McDonagh & Sons, New York, N. Y. Linseed-oil, turpentine, paints, and varnishes. No. 125,236; Apr. 22; v. 261; p. 796.
- McDonald Bros. Co., Minneapolis, Minn. Pajamas, nightgowns, shirts, rain-coats, &c. No. 128,113; Dec. 23; v. 269; p. 698.
- McFarlan Motor Company. Automobiles and trucks. No. 126,715; Sept. 30; v. 266; p. 736.
- McKibbin, Samuel A., Boise, Idaho. Preparation for the treatment of hay-fever and an eye-wash. No. 127,241; Oct. 28; v. 267; p. 644.
- McKinnie, Henry, Pittsburgh, Pa. Gaseous, oil, and solid-fuel burning stoves, &c. No. 128,114; Dec. 23; v. 269; p. 698.
- McLaughlin Coal Reduction Company, Decatur, Ill. Coal prepared for use as a fuel. No. 124,745; Mar. 11; v. 260; p. 388.
- McLaughlin Bros. Inc., New York, N. Y. Printed books. No. 125,237; Apr. 22; v. 261; p. 796.
- McLoughlin Brothers, Incorporated, Brooklyn, N. Y. Games. No. 126,183; July 29; v. 264; p. 861.
- McMillan, Louis H., Minneapolis, Minn. Preparation for the treatment of asthma. No. 127,634; Nov. 18; v. 268; p. 559.
- McNeil Drug Co., Inc., Jacksonville, Fla. Blood-purifier and relief for rheumatism. No. 124,746; Mar. 11; v. 260; p. 388.
- McNulty, John J., M. D., New York, N. Y. Pharmaceutical preparation. No. 124,397; Feb. 11; v. 259; p. 380.
- McPhaden, Alexander, Chicago, Ill. Game-board and pieces to be used therewith. No. 127,082; Oct. 21; v. 267; p. 480.
- McQueen, Jacob, Baltic, Ohio. Nitrogen-fixing bacteria. No. 124,125; Jan. 14; v. 258; p. 444.
- Mead Cycle Company, Chicago, Ill. Bicycles. Nos. 127,289-90; Nov. 4; v. 268; p. 188.
- Meadows, Pauline E., Birmingham, Ala. Preparation for treatment of the hair and scalp. No. 125,352; May 13; v. 262; p. 310.
- Meadows, William H., Hoffman, Okla. Medicine used as a blood-purifier. No. 125,937; July 15; v. 264; p. 531.
- Meakin, Charles J., Cincinnati, Ohio. Candy. No. 126,719; Sept. 30; v. 266; p. 736.
- Medomak Canning Company, Rockland and Winslow Mills, Me. Mince-meat. No. 125,157; Apr. 15; v. 261; p. 626.
- Meighen, William A., Perth, Ontario, Canada. Preparation for alleviating whooping-cough. No. 124,563; Feb. 25; v. 259; p. 773.
- Melnert, Grover N., Atlanta, Ga. Charcoal. No. 128,125; Dec. 23; v. 269; p. 698.
- Mellier Company Perfumer, St. Louis, Mo. Certain named toilet preparations. No. 124,122; Jan. 14; v. 258; p. 444.
- Mellier Company, Perfumer, St. Louis, Mo. Soap (solid and liquid). No. 124,202; Jan. 21; v. 258; p. 641.
- Mendelson, Louis R., Cleveland, Ohio. Gas, &c. water-heaters and draft-hoods therefor. No. 127,445; Nov. 11; v. 268; p. 373.
- Merante & Liberti, New York, N. Y. Macaroni. No. 124,564; Feb. 25; v. 259; p. 773.
- Mercer Automobile Company, Hamilton township, near Trenton, N. J. Automobiles and automobile-trucks. No. 126,815; Sept. 30; v. 266; p. 739.
- Merchant's Biscuit Co., The, Denver, Colo. Biscuits, cakes, crackers, cookies, wafers. No. 124,976; Apr. 1; v. 261; p. 198.
- Mercian, Joseph H., New York, N. Y. Nuts, candy, and chewing-gum. No. 124,565; Feb. 25; v. 259; p. 773.
- Meridian Candy Co., Meridian, Miss. Candy. No. 127,091; Oct. 21; v. 267; p. 480.
- Merit Electric Mfg. Co., New York, N. Y. Electric foot-warmers. No. 124,751; Mar. 11; v. 260; p. 388.
- Merriman, Alice, Freehold, N. J. Rubber cement. No. 127,446; Nov. 11; v. 268; p. 373.
- Merriman, John W., Seattle, Wash. Semipaste paint. No. 124,752; Mar. 11; v. 260; p. 388.
- Merritt, Stephen, New York, N. Y. Coffins, caskets, rough boxes for burial purposes. Nos. 126,720-3; Sept. 30; v. 266; p. 736.
- Merry Optical Company, Kansas City, Mo. Optical-chart cabinets. No. 124,859; Mar. 18; v. 260; p. 556.
- Merton Dairy Products Company, Merton, Wis. Powdered skim-milk. No. 128,247; Dec. 30; v. 269; p. 881.
- Metal Specialty Mfg. Co., The, Waterbury, Conn. Steel bearing-halls. No. 125,468; May 20; v. 262; p. 475.
- Metcalf, D. D., Greenville, Ala. Shortening compound. No. 128,248; Dec. 30; v. 269; p. 881.
- Metlskin Co., Inc., Rochester, N. Y. Liquid preparation for use as a boiler-scale cleaner and preventive. No. 125,577; May 27; v. 262; p. 643.
- Metro Chocolate Co., Inc., Brooklyn, N. Y. Chocolate-covered molasses bars. No. 127,767; Dec. 2; v. 269; p. 187.
- Metropolitan Material Company, Brooklyn, N. Y. Elastic cement for roofing and greenhouse construction. No. 126,724; Sept. 30; v. 266; p. 736.
- Meurer, John, Brooklyn, N. Y. Non-alcoholic beverage sold as a soft drink. No. 124,325; Feb. 4; v. 259; p. 178.
- Meyer Bros. Coffee and Spice Co., St. Louis, Mo. Teas, mustard, coffee, &c. No. 127,639; Nov. 18; v. 268; p. 559.
- Miami Butterine Co., The, Cincinnati, Ohio. Oleomargarin. No. 126,315; Aug. 19; v. 265; p. 453.
- Michael Cohen & Co., New York, N. Y. Building-stone. No. 128,035; Dec. 23; v. 269; p. 696.
- Michigan Lubricator Company, Detroit, Mich. Cylinder-lubricators, bearing-rollers, oil-pumps, sight-feed valves, &c. No. 128,126; Dec. 23; v. 269; p. 698.
- Michigan Motor Garment Co., Greenville, Mich. One-piece outer garments for men, women, boys, and youths. No. 124,258; Jan. 28; v. 258; p. 810.
- Michigan Parlay Co., Detroit, Mich. Non-alcoholic non-cereal maltless beverages and syrups for making. No. 127,197; Oct. 21; v. 267; p. 484.
- Michigan State Auto School, Inc., Detroit, Mich. Catalogues and monthly magazines. No. 125,664; June 3; v. 263; p. 162.
- Micronticos Bros., New York, N. Y. Edible oil. No. 125,354; May 13; v. 262; p. 310.
- Middleton, Basil, Culver, Ind. Chemical composition used to dissolve the residuum of smokeless powder from gun-barrels and to preserve the barrel from rust and corrosion. No. 126,881; Oct. 7; v. 267; p. 179.
- Middleton, Carleton B., Wilmette, Ill. Series of cartoons. No. 124,084; Jan. 14; v. 258; p. 443.
- Middletown Silver Company, Middletown, Conn. Silver-plated hollow ware and tableware. No. 126,040; July 29; v. 264; p. 698.
- Mikesell Brothers Company, Chicago, Ill. Brattice-cloth. No. 125,079; Apr. 8; v. 261; p. 407.
- Mil-Ko-Ko Company, St. Paul, Minn. Preparation in powdered form for making a beverage food. No. 127,092; Oct. 21; v. 267; p. 480.
- Military Sales Corporation, New York, N. Y. Cigar and cigarette lighters. No. 124,126; Jan. 14; v. 258; p. 444.
- Military Tract Conserve Co., Bushnell, Ill. Canned tomatoes. No. 126,725; Sept. 30; v. 266; p. 736.
- Military Training Publishing Corporation, New York, N. Y. Monthly publication. No. 124,566; Feb. 25; v. 259; p. 773.
- Millbrook Woolen Mills, New York, N. Y. Woolen and mixture of wool and cotton piece goods. No. 128,134; Dec. 23; v. 269; p. 699.
- Miller Bros. Lumber Co., Bellingham, Wash. Shingles. No. 125,159; Apr. 15; v. 261; p. 626.
- Miller Brothers Company, The, Newark, N. J. Writing and mailing envelops. No. 125,906; July 8; v. 264; p. 349.
- Miller, Earl L., Overbrook, Kans. Timer-brushes for ignition systems. No. 126,316; Aug. 19; v. 265; p. 453.
- Miller, Henry C., Milwaukee, Wis. Loose-leaf binders. No. 124,399; Feb. 11; v. 259; p. 380.
- Miller, Hern J., Fort Wayne, Ind. Monthly periodical publication. No. 127,093; Oct. 21; v. 267; p. 480.
- Millinery Trade Publishing Co., New York, N. Y. Monthly magazine. No. 127,854; Dec. 9; v. 269; p. 388.
- Mills & Gibb Corporation, New York, N. Y. Handkerchiefs. No. 126,561; Sept. 16; v. 266; p. 446.
- Mills & Gibb Corporation, New York, N. Y. Cotton and silk piece goods and mixtures of the same. No. 127,448; Nov. 11; v. 268; p. 373.
- Mills & Gibb Corporation, New York, N. Y. Piece goods of cotton, silk, and mixtures thereof. No. 127,967; Dec. 16; v. 269; p. 543.
- Mills & Gibb Corporation, New York, N. Y. Linen piece goods. No. 127,968; Dec. 16; v. 269; p. 543.
- Milm, James, Toronto, Ontario, Canada, assignor, by mesne assignments, to A. M. Collins Manufacturing Company, Philadelphia, Pa. Etchable coated and coated relief overlay-paper, both for use in printing. No. 128,727; S. v. 80; v. 266; p. 736.
- Milton Bradley Co., Springfield, Mass. Outfits of toy soldiers and pistols and games played by same. No. 126,189; July 29; v. 264; p. 861.
- Minor, Read & Tullock, New Haven, Conn. Canned vegetables and fruits, coffees, and spices. No. 126,190; July 29; v. 264; p. 861.
- Minneapolis Steel & Machinery Company, Minneapolis, Minn. Thrashing-machines. No. 127,449; Nov. 11; v. 268; p. 373.
- Minnesota Paper Company, St. Paul, Minn. Mailing-envelops. No. 126,452; Aug. 26; v. 265; p. 629.
- Minnesota Stove Co., The, Minneapolis, Minn. Wood, coal, gas, oil, and vapor stoves, ranges, and furnaces. No. 124,127; Jan. 14; v. 258; p. 444.
- Minnesota Tobacco Company, Duluth, Minn. Tobacco products. No. 125,475; May 20; v. 262; p. 476.
- Minor & Dixon Company, The, Cincinnati, Ohio. Coffee. No. 124,203; Jan. 21; v. 258; p. 641.
- Mirolene Co., The, Alsen, N. D. Veterinary medicines. No. 124,753; Mar. 11; v. 260; p. 388.
- Mittelstaedt, Emma T., New York, N. Y. Hair-nets. No. 126,453; Aug. 26; v. 265; p. 629.
- Mittelstaedt, Emma T., New York, N. Y. Hair-pads. No. 128,135; Dec. 23; v. 269; p. 699.
- Mitten, Worth L., Davenport, Iowa. Pneumatic rubber tires. No. 127,969; Dec. 16; v. 269; p. 543.



- Mocenter, Henry, Los Angeles, Calif. Tablets used as a mouth and throat antiseptic. No. 125,665; June 3; v. 263; p. 162.
- Moch, Irving, New York, N. Y. Ladies' trimmed and tailored hats. No. 127,450; Nov. 11; v. 268; p. 373.
- Mojo-Schey Co., Inc., New York, N. Y. Hosiery and woven and knit underwear. No. 125,476; May 20; v. 262; p. 476.
- Molassine Company Limited, The, Greenwich, England. Chemical fertilizers. No. 126,317; Aug. 19; v. 265; p. 453.
- Moline Plow Company, Moline, Ill. Quarterly periodical. No. 125,477; May 20; v. 262; p. 476.
- Moller, Conrad G., New Canaan township, Fairfield county, Conn. Soaps. No. 126,454; Aug. 26; v. 265; p. 629.
- Monaghan, Thomas F., Philadelphia, Pa. Headache and nerve-pain capsules. No. 125,478; May 20; v. 262; p. 476.
- Monarch Coal Mining Company, Monarch, Wyo. Coal. No. 124,400; Feb. 11; v. 259; p. 380.
- Monarch Manufacturing Company, Council Bluffs, Iowa, and Toledo, Ohio. Lubricating oils and greases. No. 125,241; Apr. 22; v. 261; p. 796.
- Monarch Manufacturing Company, Council Bluffs, Iowa, and Toledo, Ohio. Lubricating greases and oils. No. 126,318; Aug. 19; v. 265; p. 453.
- Mondial Steel and Tool Company, Inc., New York, N. Y. Twist, flat, straightway, and shell drills and files. No. 125,750; June 10; v. 263; p. 320.
- Monroe Coal Mining Company, Cambria township, Cambria county, and Philadelphia, Pa. Coal. No. 126,319; Aug. 19; v. 265; p. 453.
- Monroe Silk Mills, Stroudsburg, Pa. Silk knitting-yarn. No. 124,128; Jan. 14; v. 258; p. 445.
- Montelaise Mercantile Co., The, Detroit, Mich. Non-intoxicating maltless fruit beverage. No. 126,320; Aug. 19; v. 265; p. 453.
- Montgomery, D. Hayden, Cairo, Ill. Non-intoxicating malt beverage. No. 125,280; Apr. 29; v. 261; p. 953.
- Montgomery, Robert J., Chicago, Ill. Flue-cleaners. No. 124,326; Feb. 4; v. 259; p. 178.
- Moore Manufacturing Company, Muncie, Ind. Folding beds. No. 125,578; May 27; v. 262; p. 643.
- Moore Oil Company, The, Cincinnati, Ohio. Soluble oil for treatment of silk. No. 127,855; Dec. 9; v. 269; p. 388.
- Moore, Walter G., Chicago, Ill. Metal-working machines. No. 124,327; Feb. 4; v. 259; p. 178.
- Moos, Isidor, New York, N. Y. Herring, either kippered or packed in tomato sauce. No. 125,242; Apr. 22; v. 261; p. 796.
- Moreland Motor Truck Co., Los Angeles, Calif. Motor-trucks and automobile-trailers. No. 127,451; Nov. 11; v. 268; p. 373.
- Morgan Company, Oshkosh, Wis. Doors, sash, and mill-work. No. 128,136; Dec. 23; v. 269; p. 699.
- Morgan Drug Company of the City of Brooklyn, The, Brooklyn, N. Y. Tablet for use as a body builder or invigorator. No. 127,640; Nov. 18; v. 268; p. 559.
- Morgan Drug Company of the City of Brooklyn, The, Brooklyn, N. Y. Pomade chemical compound or dressing for the hair. No. 127,768; Dec. 2; v. 269; p. 187.
- Morris & Company, Chicago, Ill. Ham, boiled ham, bacon. No. 128,249; Dec. 30; v. 269; p. 881.
- Morris D. Neumann & Company, Philadelphia, Pa. Cigars. No. 125,485; May 20; v. 262; p. 476.
- Morris, James H., Rosedale, Kans. Petroleum, animal, and vegetable products. No. 127,970; Dec. 16; v. 269; p. 543.
- Morrison, George, Santa Paula, Calif. Washing powder. No. 125,479; May 20; v. 262; p. 476.
- Morrison-Waters Piano Company, Cincinnati, Ohio. Pianos. No. 127,642; Nov. 18; v. 268; p. 559.
- Mortellaro & Co., A., Tampa, Fla. Macaroni. No. 124,644; Mar. 4; v. 260; p. 197.
- Moser Paper Company, Chicago, Ill. Paper, cardboard, envelopes, &c. No. 126,041; July 22; v. 264; p. 698.
- Moss, Charles H., Malden, Mass. Marmalade. No. 125,243; Apr. 22; v. 261; p. 796.
- Mother Nature Publishing Company, New York, N. Y. Publication issued bimonthly. No. 124,860; Mar. 18; v. 260; p. 556.
- Motor Car Supply Co., Chicago, Ill. Pneumatic tire and tube patches. No. 127,971; Dec. 16; v. 269; p. 543.
- Mottard, Louis, London, England. Dyes for the hair. No. 127,643; Nov. 18; v. 268; p. 559.
- Mount Royal Corporation, New York, N. Y. Composition-metal military and naval insignia. No. 124,328; Feb. 4; v. 259; p. 178.
- Mount Vernon-Woodberry Mills, Incorporated, Baltimore, Md. Cotton duck. Nos. 125,480-1; May 20; v. 262; p. 476.
- Mount Vernon-Woodberry Mills, Incorporated, Baltimore, Md. Cotton duck. No. 127,258; Oct. 28; v. 267; p. 644.
- Mount Vernon-Woodberry Mills Inc., Baltimore, Md. Cotton duck. Nos. 128,137-40; Dec. 23; v. 269; p. 699.
- Mrs. E. G. Kidd, Inc., Richmond, Va. Canned foods, dried fruit and vegetables, &c. No. 128,245; Dec. 30; v. 269; p. 881.
- Mullen, Frank, Ramey, Pa. Tongs for lifting ice-cream cans. No. 127,452; Nov. 11; v. 268; p. 373.
- Multikraft Incorporated, Rochester, N. Y. Certain named games and toys. No. 124,129; Jan. 14; v. 258; p. 445.
- Mumphrey, Dominick S., New Orleans, La. Puncture-sealing compositions for pneumatic tires. No. 125,666; June 3; v. 263; p. 163.
- Munday, Edgar F., London, England. Certain named paints and painters' materials. No. 125,828; June 17; v. 263; p. 478.
- Munday, Edgar F., London, England. Inks, type-writer ribbons, &c. No. 126,042; July 22; v. 264; p. 698.
- Munn, S. A. P., Jr., Yonkers, N. Y. Corn-plasters. No. 126,602; Sept. 23; v. 266; p. 593.
- Musa Marzorati & C., Como, Italy. Silk piece goods. No. 124,150; Jan. 14; v. 258; p. 445.
- Music Master Co., Sturgis, Mich. Cabinet-phonographs. No. 126,321; Aug. 19; v. 265; p. 453.
- Mussmann & Stuebe, New York, N. Y. Scrub and dish cloths, glass and kitchen towels, &c. No. 125,482; May 20; v. 262; p. 476.
- Mutual Paint Company. (See Raymond, R., assignor.)
- Mutual Shoemakers, Inc., The, Malden, Mass. Leather and leather and cloth boots and shoes. No. 125,281; Apr. 29; v. 261; p. 953.
- Muzzy Lyon Co. Ltd., The, Detroit, Mich. Babbitt metals. No. 124,329; Feb. 4; v. 259; p. 178.
- Muzzy-Lyon Co., Ltd., Detroit, Mich. Bronze castings and Babbitt alloys. No. 125,244; Apr. 22; v. 261; p. 796.
- Muzzy-Lyon Co., Ltd., Detroit, Mich. Die-cast, bronze, &c. bearings. No. 125,829; June 17; v. 263; p. 478.
- Myers, Henry B., Idabel, Okla. Blood-purifier, liniment, salve. No. 127,453; Nov. 11; v. 268; p. 373.
- Myers, Lewis E., Valparaiso, Ind. Combination portable desks. No. 126,322; Aug. 19; v. 265; p. 453.
- Myers Remedy Company, Philippi, W. Va. Ointment for the alleviation of pain in general and rheumatic pains. No. 124,330; Feb. 4; v. 259; p. 178.
- Myszowski, Anton O., Stephen, Minn. Bird-lime. No. 125,830; June 17; v. 263; p. 478.
- N. Goodman, Wise & Company, Chicago, Ill. Cotton-seed and soy-bean oil. No. 128,073; Dec. 23; v. 269; p. 697.
- N. K. Fairbank Company, The, Union township, near Guttenberg, N. J., and Chicago, Ill. Shortening compound, &c. No. 126,274; Aug. 19; v. 265; p. 452.
- N. K. Fairbank Company, Union township, near Guttenberg, N. J., and Chicago, Ill. Vegetable-oil product for salads and cooking. No. 126,678; Sept. 30; v. 266; p. 735.
- N. Z. Graves, Incorporated, Philadelphia, Pa. Paints, varnishes, &c. No. 126,689; Sept. 30; v. 266; p. 735.
- Naamlooze Vennootschap: J. A. Carp's Garenfabrieken, Helmond, Netherlands. Thread and yarn. No. 127,095; Oct. 21; v. 267; p. 480.
- Naamlooze Vennootschap: J. A. Carp's Garenfabrieken, Helmond, Netherlands. Thread and yarn. Nos. 127,645-51; Nov. 18; v. 268; p. 559.
- Naas-Sanderson Co., Evansville, Ind. Coffee. No. 127,652; Nov. 18; v. 268; p. 559.
- Nafziger, Ralph L., Kansas City, Mo. Bread. No. 125,751; June 10; v. 263; p. 328.
- Nakamura, Kentaro, Los Angeles, Calif. Japanese food. No. 125,667; June 3; v. 263; p. 163.
- Naregan, J. Earl, Los Angeles, Calif. Ointment used as an anodyne, deodorant, &c. No. 126,043; July 22; v. 264; p. 698.
- Narragansett Brewing Co., Cranston, R. I. Malt beverage. No. 125,245; Apr. 22; v. 261; p. 796.
- Nashua Gummed and Coated Paper Company, Nashua, N. H. Paper coated with a silver-like coating. No. 125,907; July 8; v. 264; p. 349.
- Nashua Mfg. Co., Nashua, N. H. Cotton piece goods and blankets. No. 127,973; Dec. 16; v. 269; p. 543.
- Nathan, Albert, Glen Cove, N. Y. Body-protector of coat or vest shape made of wind and water proof material. No. 125,301; May 6; v. 262; p. 165.
- Nathan and Cohen Co. Inc., New York, N. Y. Cotton piece goods. No. 128,144; Dec. 23; v. 269; p. 699.
- Nathan, Edwin B., New York, N. Y. Certain named receptacles. No. 125,831; June 17; v. 263; p. 478.
- National Aniline & Chemical Company, Inc., New York, N. Y. Coal-tar dyestuffs. No. 126,949; Oct. 14; v. 267; p. 336.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. No. 127,769; Dec. 2; v. 269; p. 187.
- National Baker's Egg Company, Sioux City, Iowa. Egg substitute. No. 124,331; Feb. 4; v. 259; p. 178.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 125,938; July 15; v. 264; p. 531.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 127,291; Nov. 4; v. 268; p. 188.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 127,653; Nov. 18; v. 268; p. 559.
- National Black Goods Company Inc., New York, N. Y. Women's dresses and outer waists. No. 128,142; Dec. 23; v. 269; p. 699.



*Alphabetical list of registrants of trade-marks—Continued.*

- National Bundle Tyer Company, Blissfield, Mich. Bundle and package tying machines. No. 126,564; Sept. 16; v. 266; p. 446.
- National Candy Company, St. Louis, Mo. Candies. No. 125,160; Apr. 15; v. 261; p. 626.
- National Carbon Company, Inc., Cleveland, Ohio. Electric batteries. No. 127,454; Nov. 11; v. 268; p. 373.
- National Casket Company, New York, N. Y. Certain named chemical compounds used in embalming. No. 124,934; Mar. 25; v. 260; p. 729.
- National Coal Association, Wilmington, Del., and Washington, D. C. Pamphlet published daily. No. 124,401; Feb. 11; v. 259; p. 380.
- National Coal Association, Wilmington, Del., and Washington, D. C. Pamphlet published from time to time. No. 124,402; Feb. 11; v. 259; p. 380.
- National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 127,972; Dec. 16; v. 269; p. 543.
- National Commodities Company, Philadelphia, Pa. Shampoo. No. 127,198; Oct. 21; v. 267; p. 484.
- National Compound Company, Riverside, N. J. Water-softener compound. No. 127,770; Dec. 2; v. 269; p. 187.
- National Device and Drill Company, Ypsilanti, Mich. High-speed twist-drills. No. 125,483; May 20; v. 262; p. 476.
- National Drug Clerk, Inc., The, Chicago, Ill. Monthly magazine. No. 124,754; Mar. 11; v. 260; p. 388.
- National Enameling & Stamping Co., New York, N. Y. Certain named enameled metal ware. No. 125,484; May 20; v. 262; p. 476.
- National Enameling & Stamping Co., New York, N. Y. Enameled metal ware. No. 125,752; June 10; v. 263; p. 328.
- National Fruit Juice Company, La Fayette, Ind. Non-alcoholic beverage. No. 127,654; Nov. 18; v. 268; p. 559.
- National Fruit Product Company, Inc., Alexandria, Va. Apple-cider vinegar. No. 126,728; Sept. 30; v. 266; p. 736.
- National Gauge & Equipment Company, La Crosse, Wis. Gasoline and oil tank, oil, safety, tire, &c., gages. No. 127,096; Oct. 21; v. 267; p. 480.
- National Gauge & Equipment Company, La Crosse, Wis. Pressure-gages. No. 127,455; Nov. 11; v. 268; p. 373.
- National Macaroni Co., Providence, R. I. Macaroni. No. 126,729; Sept. 30; v. 266; p. 736.
- National Magnesia Manufacturing Company, San Francisco, Calif. Sectional magnesia pipe-covering and boiler and locomotive lagging. No. 127,771; Dec. 2; v. 269; p. 187.
- National Malleable Castings Company, The, Cleveland, Ohio. Radial draft and friction draft gears, quadruple shear-yoke, &c. No. 124,259; Jan. 28; v. 258; p. 810.
- National Malleable Castings Company, The, Cleveland, Ohio. Journal-box and coiled-spring journal-box for railway-vehicles. No. 124,981; Apr. 1; v. 261; p. 198.
- National Paint & Varnish Company, The, Cleveland, Ohio. Certain named construction materials. No. 125,080; Apr. 8; v. 261; p. 407.
- National Paper Can Company, Milwaukee, Wis. Containers made of paper for holding coffee and the like. No. 124,464; Feb. 18; v. 259; p. 572.
- National Papeterie Company, Springfield, Mass. Printing and writing paper. No. 124,755; Mar. 11; v. 260; p. 388.
- National Papeterie Company, Springfield, Mass. Writing-paper and envelopes. No. 124,862; Mar. 18; v. 260; p. 556.
- National Papeterie Company, Springfield, Mass. Printing and writing paper and envelopes. No. 125,908; July 8; v. 264; p. 349.
- National Products Co., The, Mansfield, Ohio. Cleansing compound for removing soil, dirt, and grease from clothing. No. 127,097; Oct. 21; v. 267; p. 480.
- National Shirt Shops, Inc., New York, N. Y. Coats, vests, trousers, house-gowns, &c. No. 127,456; Nov. 11; v. 268; p. 373.
- National Tire & Rubber Company, East Palestine, Ohio. Rubber tires. No. 124,756; Mar. 11; v. 260; p. 388.
- National Veneer Products Company, Mishawaka, Ind. Trunks. No. 126,044; July 22; v. 264; p. 698.
- National Veneer Products Company, Mishawaka, Ind. Trunks. No. 126,323; Aug. 19; v. 265; p. 453.
- National Watch Company, Inc., New York, N. Y. Watch-movements. No. 126,045; July 22; v. 264; p. 698.
- Native Products Co., Inc., New York, N. Y. Baking-powder. No. 125,708; June 3; v. 263; p. 164.
- Nautical Instruments Mfg. Co. Inc., New York, N. Y. Marine compasses, sextants, protractors, &c. No. 127,098; Oct. 21; v. 267; p. 480.
- Nebraska Seed Co., Omaha, Nebr. Vegetable, flower, grass, and field seeds. Nos. 124,131-2; Jan. 14; v. 258; p. 445.
- Nebraska Seed Co., The, Omaha, Nebr. Seeds. No. 124,403; Feb. 11; v. 259; p. 380.
- Nectola Food Products Co., New York, N. Y. Food-flavoring extracts and gelatin. No. 126,730; Sept. 30; v. 266; p. 736.
- Neff, George L., Pittsburgh, Pa. Coffee, tea, cocoa, lemon, and vanilla extracts. No. 125,753; June 10; v. 263; p. 328.
- Nelson, Baker & Co., Detroit, Mich. Antiseptic dusting-powders, catarrhal nasal points, &c. No. 125,923; July 8; v. 264; p. 350.
- Nelson Pants Co., St. Louis, Mo. Men's trousers. No. 127,457; Nov. 11; v. 268; p. 373.
- Nelson, Richard, Chicago, Ill. Powder to be applied to a razor strop, hone, or sharpener. No. 124,204; Jan. 21; v. 258; p. 641.
- Nepto Chemical Co., Los Angeles, Calif. Concentrated cathartic water. No. 126,731; Sept. 30; v. 266; p. 736.
- Nestor Johnson Manufacturing Company, Chicago, Ill. Skaters' shoes. No. 125,282; Apr. 29; v. 261; p. 953.
- Neuburger, Joseph B., New York, N. Y. Inspirator. No. 124,863; Mar. 18; v. 260; p. 556.
- Neuss, Hesslein & Co., New York, N. Y. Woven cotton piece goods. No. 124,757; Mar. 11; v. 260; p. 388.
- Neuss, Hesslein & Co., New York, N. Y. Woven cotton piece goods. Nos. 125,486-9; May 20; v. 262; p. 476.
- Neuss, Hesslein & Co., New York, N. Y. Woven cotton piece goods. No. 125,832; June 17; v. 263; p. 478.
- Neuss, Hesslein & Co., New York, N. Y. Woven cotton piece goods. No. 126,565; Sept. 16; v. 266; p. 446.
- Neustadter Bros., San Francisco, Calif., and Portland, Ore. Combined pants and coats. No. 127,655; Nov. 18; v. 268; p. 559.
- Nevins, Thomas F., New York, N. Y., and Merritt, Fla. Fresh fruit. No. 127,772; Dec. 2; v. 269; p. 187.
- New Hampton Mills, New York, N. Y. Cotton crape. No. 126,566; Sept. 16; v. 266; p. 446.
- New Jersey Car Spring & Rubber Co. Inc., Jersey City, N. J. Certain named mechanical rubber goods. Nos. 124,465-7; Feb. 18; v. 259; p. 572.
- New Process Metals Co., Inc., New York, N. Y. Pyrophoric or sparking metal alloys. No. 126,191; July 29; v. 264; p. 861.
- New Standard Adding Machine Company, St. Louis, Mo. Liquid-level indicators. No. 124,982; Apr. 1; v. 261; p. 198.
- New York Mackintosh Clothing Company, New York, N. Y. Rain-coats. No. 127,159; Oct. 21; v. 267; p. 482.
- New York Mills Corporation, New York Mills, N. Y. Corduroy. No. 127,459; Nov. 11; v. 268; p. 373.
- New York Mills Corporation, New York Mills, N. Y. Uncoated fabrics, cotton piece goods. No. 127,974; Dec. 16; v. 269; p. 543.
- New York Shield Company, The, New York, N. Y. Toilet powder. No. 124,983; Apr. 1; v. 261; p. 198.
- Nowell, Clifford V., Oklahoma, Okla. Rheumatism medicine. No. 125,754; June 10; v. 263; p. 328.
- Newman, Lyda D. G., New York, N. Y. Preparation for the hair and scalp. No. 127,773; Dec. 2; v. 269; p. 187.
- Newton, Morton E., Portland, Ore. Silica product. No. 128,143; Dec. 23; v. 269; p. 699.
- Newton Tea & Spice Co., The, Cincinnati, Ohio. Mixture to be used in place of eggs in baking and cooking. No. 126,325; Aug. 19; v. 265; p. 453.
- Niagara Chemical Works, Utica, N. Y. Food-flavorings. No. 127,856; Dec. 9; v. 269; p. 388.
- Nichols Copper Co., New York, N. Y. Sulfate of copper, blue vitriol, or stone. No. 124,374; Feb. 11; v. 259; p. 379.
- Nick-A-Jack Hosiery Mills, Chattanooga, Tenn. Hosiery. No. 127,460; Nov. 11; v. 268; p. 373.
- Nielsen & Kittle Canning Co., Ltd., East San Pedro, Calif. Canned sardines. Nos. 125,490-1; May 20; v. 262; p. 476.
- Nielsen & Kittle Canning Co., Ltd., East San Pedro, Calif. Canned sardines and mackerel. No. 125,492; May 20; v. 262; p. 476.
- Nielsen & Kittle Canning Co., Terminal, Calif. Canned sardines. No. 127,099; Oct. 21; v. 267; p. 480.
- Nielsen & Kittle Canning Co. Ltd., East San Pedro, Calif. Canned sardines. No. 127,857; Dec. 9; v. 269; p. 388.
- Nikitas, John, Chicago, Ill. Ointment or salve for diseases of the skin. No. 125,493; May 20; v. 262; p. 476.
- Nile Garden Canning Co. Incorporated, Oakland and Manteca, Calif. Canned tomatoes, canned tomato paste, and purée, hot sauce. No. 124,864; Mar. 18; v. 260; p. 556.
- Niles-Bement-Pond Company, New York, N. Y. Metal-working machines, parts thereof, and accessories therefor. No. 124,758; Mar. 11; v. 260; p. 388.
- Nippon Crucible Company, Limited, The, Toyotana-Gun, Tokyo-Fu, Japan. Graphite crucibles. No. 127,461; Nov. 11; v. 268; p. 374.
- Nitrate Agencies Company, New York, N. Y. Crude colors. No. 126,455; Aug. 26; v. 265; p. 629.
- Nitrate Agencies Company, New York, N. Y. Drugs consisting of egg-preserved and insecticides. No. 126,456; Aug. 26; v. 265; p. 629.
- Nitrate Agencies Company, New York, N. Y. Fertilizers. No. 127,199; Oct. 21; v. 267; p. 484.
- Nitrogen Products Company, Providence, R. I. Sodium cyanid. No. 125,579; May 27; v. 262; p. 643.
- Nockege Mills, Fitchburg, Mass. Cotton piece goods. No. 125,355; May 13; v. 262; p. 310.
- Noll-Hauworth Company, Quincy, Ill. Clothing for men, women, and children. No. 126,046; July 22; v. 264; p. 698.



- Nonotuck Silk Company, Northampton, Mass. Thread and yarn. No. 127,100; Oct. 21; v. 267; p. 480.
- Nonotuck Silk Company, Florence, Mass. Thread and yarn. No. 127,462; Nov. 11; v. 268; p. 371.
- Norman, Rebecca, New York, N. Y. Face-lotion. No. 124,404; Feb. 11; v. 259; p. 380.
- Norman, Remington Company, The, Baltimore, Md. Social registers or directories issued annually. No. 124,133; Jan. 14; v. 258; p. 445.
- Norman, Remington Company, The, Baltimore, Md. Social registers or directories. No. 124,260; Jan. 28; v. 258; p. 810.
- North American Dye Corporation, New Rochelle, N. Y. Dyes. No. 125,755; June 10; v. 263; p. 328.
- North British Rubber Co., The, Edinburgh, Scotland. Golf-balls. No. 126,567; Sept. 16; v. 266; p. 446.
- Northam Warren Corporation, New York, N. Y. Emery-boards, nail-files, manicure sticks and buffers. No. 124,134; Jan. 14; v. 258; p. 445.
- Northam Warren Corporation, New York, N. Y. Cuticle-remover and nail-polish, both liquid. No. 126,458; Aug. 26; v. 265; p. 629.
- Northern Chemical Works, Chicago, Ill. Powder for dissolving soot from the walls of furnaces, boilers, and the like. No. 125,081; Apr. 8; v. 261; p. 407.
- Northern Chemical Works, Chicago, Ill. Powder for dissolving soot from furnaces, boilers, &c. No. 126,457; Aug. 26; v. 265; p. 629.
- Northern Furniture Company, Sheboygan, Wis. Certain named furniture. No. 126,327; Aug. 19; v. 265; p. 454.
- Northern Insulating Company, St. Paul, Minn. Fibrous insulating material. No. 125,161; Apr. 15; v. 261; p. 626.
- Northern Malleable Iron Company, St. Paul, Minn. Malleable-iron castings and forgings. No. 127,101; Oct. 21; v. 267; p. 480.
- Northern Ohio Dairy Company, Ashland, Ohio. Nut-margarin and oleomargarin. No. 124,865; Mar. 18; v. 260; p. 556.
- Northland Ski Manufacturing Co., St. Paul, Minn. Certain named sporting goods. No. 124,569; Feb. 25; v. 259; p. 773.
- Northwest Evaporating Company, Cashmere, Wash. Evaporated apples. No. 128,251; Dec. 30; v. 269; p. 881.
- Northwestern Chemical Co., The, Marietta, Ohio. Powdered talc and mica. No. 125,494; May 20; v. 262; p. 476.
- Northwestern Chemical Co., The, Marietta, Ohio. Powdered talc and mica. No. 127,463; Nov. 11; v. 268; p. 374.
- Northwestern Chemical Co., The, Marietta, Ohio. Valve-grinding and neat-foot clutch and brake compounds, &c. No. 127,464; Nov. 11; v. 268; p. 374.
- Northwestern Chemical Co., Marietta, Ohio. Air-drying and engine enamels, rim-paint, &c. No. 127,656; Nov. 18; v. 268; p. 559.
- Northwestern Chemical Co., The, Marietta, Ohio. Carbon-removing, &c., compounds and soldering paste. No. 127,858; Dec. 9; v. 269; p. 388.
- Northwestern Chemical Co., The, Marietta, Ohio. Paints, varnish, &c. No. 127,975; Dec. 16; v. 269; p. 543.
- Northwestern Chemical Co., The, Marietta, Ohio. Abrasive, detergent, and polishing materials. No. 128,250; Dec. 30; v. 269; p. 881.
- Northwestern Expanded Metal Company, Chicago, Ill. Certain named metal products. No. 124,261; Jan. 28; v. 258; p. 810.
- Northwestern Expanded Metal Company, Chicago, Ill. Expanded-metal door-mats. No. 124,405; Feb. 11; v. 259; p. 211.
- Northwestern Expanded Metal Company, Chicago, Ill. Expanded-metal waste-baskets. No. 124,468; Feb. 18; v. 259; p. 572.
- Northwestern Fruit Exchange, Seattle, Wash. Fresh apples and pears. No. 124,866; Mar. 18; v. 260; p. 556.
- Norton Company, Worcester, Mass. Certain named heat-refractory products. Nos. 125,082-3; Apr. 8; v. 261; p. 407.
- Norton Company, Worcester, Mass. Abrasive products. No. 128,252; Dec. 30; v. 269; p. 882.
- Norwalk Tire and Rubber Company, The, Norwalk, Conn. Certain named belting, non-metallic tires, &c. No. 125,085; Apr. 8; v. 261; p. 407.
- Norwich Crape Company 1856 Limited, The, Norwich, England. Crape bandages for medical and surgical purposes. No. 124,867; Mar. 18; v. 260; p. 556.
- Nowack, Joseph, West Hoboken, N. J. Medicine for indigestion and disorders of the bowels. No. 124,935; Mar. 25; v. 260; p. 729.
- Noyes, Samuel M., Wheeling, W. Va. Blood builder and purifier. No. 124,645; Mar. 4; v. 260; p. 197.
- Nu-Way Manufacturing Co., Kewanee, Ill. Hog-sprayer, oscillating seeder, staple-puller. No. 124,984; Apr. 1; v. 261; p. 198.
- Nulomoline Company, New York, N. Y. Table-syrup. No. 127,859; Dec. 9; v. 269; p. 388.
- Nunnally Co., Atlanta, Ga. Candy. No. 125,086; Apr. 8; v. 261; p. 407.
- Nusole Company, The, Colorado Springs, Colo. Waterproofing composition for shoe-soles. No. 127,465; Nov. 11; v. 268; p. 374.
- Nyal Company, Detroit, Mich. Preparation for the treatment of excessive perspiration. No. 124,570; Feb. 25; v. 259; p. 773.
- Nyal Company, Detroit, Mich. Alternative, hematic stimulant, and medicine for coughs, &c. No. 126,048; July 22; v. 264; p. 698.
- Nyman, Knute O., Cincinnati and Springfield, Ohio. Candies. No. 126,328; Aug. 19; v. 265; p. 454.
- O. F. Schmid Chemical Co., Jackson, Mich. Iodin preparation. No. 124,417; Feb. 11; v. 259; p. 381.
- O-H Company, The, New York, N. Y. Candy. No. 127,467; Nov. 11; v. 268; p. 374.
- O. K. Dorn Shoe Company, The, Cleveland, Ohio. Leather shoes. No. 125,088; Apr. 8; v. 261; p. 407.
- O. R. Adams Mfg. Co., Inc., Rochester, N. Y. Lathes. No. 126,970; Oct. 14; v. 267; p. 336.
- O. W. Peirce Company, La Fayette, Ind. Foods. No. 128,149; Dec. 23; v. 269; p. 699.
- O. W. Richardson & Company, Chicago, Ill. Certain named furniture and upholstery. No. 125,511; May 20; v. 262; p. 477.
- O. W. Richardson & Company, Chicago, Ill. Rugs, carpets, portières, &c. No. 126,892; Oct. 7; v. 267; p. 179.
- O'Bannon Company, The, Claremore, Okla. Field-seeds. No. 125,087; Apr. 8; v. 261; p. 407.
- O'Bannon Corporation, New York, N. Y. Rubberized top fabric for vehicles. No. 124,135; Jan. 14; v. 258; p. 445.
- O'Brien, Ellen C., Milwaukee, Wis. Hair-stain. No. 124,759; Mar. 11; v. 260; p. 388.
- O'Brien, J. F., Cincinnati, Ohio. Evaporated milk. No. 125,688; June 3; v. 263; p. 163.
- O'Connor Electric Company, New York, N. Y. Electric liquid-immersion heaters. No. 124,332; Feb. 4; v. 259; p. 178.
- O'Riley, Leo J., Grand Rapids, Mich. Phonographs. No. 127,657; Nov. 18; v. 268; p. 559.
- Oakland Motor Car Co. of Michigan, Pontiac, Mich. Automobiles. Nos. 124,571-2; Feb. 25; v. 259; p. 773.
- Oakley Chemical Company, New York, N. Y. Granulated chemical cleansing compound. No. 127,103; Oct. 21; v. 267; p. 481.
- Odette Hat Company, New York, N. Y. Ladies' trimmed hats. No. 125,302; May 6; v. 262; p. 165.
- Oelrich & Berry Co., Chicago, Ill. Table-syrup. No. 124,868; Mar. 18; v. 260; p. 556.
- Oettinger, Alice, Zurich, Switzerland. Dress-shields. No. 127,466; Nov. 11; v. 268; p. 374.
- Oettinger, Fritz W., New Rochelle and New York, N. Y. Electric push-buttons, switches, fuses, &c. No. 126,329; Aug. 19; v. 265; p. 454.
- Offerding, Henry T., Washington, D. C. Cigars. No. 127,774; Dec. 2; v. 269; p. 187.
- Ogden Corporation, The, Binghamton, N. Y. Carbureters for use with internal-combustion engines and nebulizing attachments. No. 126,734; Sept. 30; v. 266; p. 736.
- Ohio Blower Company, The, Cleveland, Ohio. Exhaust-heads, stain and oil separators, &c. No. 126,733; Sept. 30; v. 266; p. 736.
- Ohio Confection Company, The, Cleveland, Ohio. Candies. No. 126,330; Aug. 19; v. 265; p. 454.
- Ohio Dairy Company, The, Toledo, Oak Harbor, and Lima, Ohio, and Morenci, Mich. Evaporated milk. No. 125,709; June 3; v. 263; p. 164.
- Ohio Leather Company, Girard, Ohio. Tanned and finished calf and side leather. No. 126,603; Sept. 23; v. 266; p. 593.
- Ohio Rubber Co., Cincinnati, Ohio. Bathing-caps. No. 126,884; Oct. 7; v. 267; p. 179.
- Okada & Company, Ltd., San Francisco, Calif. Canned crab. No. 126,049; July 22; v. 264; p. 698.
- Old Virginia Orchard Co. Inc., Front Royal, Va. Jellies and conserves. No. 127,105; Oct. 21; v. 267; p. 481.
- Oleopath Company Incorporated, New Orleans, La. Medicine for tuberculosis and pulmonary affections. Nos. 124,406-7; Feb. 11; v. 259; p. 380.
- Oliver Tractor Company, The, Knoxville, Tenn. Tractors and parts thereof. No. 124,136; Jan. 14; v. 258; p. 445.
- Olmsted-Flint Company, Cambridge, Mass. Beltings. No. 128,145; Dec. 23; v. 269; p. 699.
- Olmsted, Mabel. Face-enamel. No. 126,735; Sept. 30; v. 266; p. 736.
- Olson, Hans M., Burbank, assignor to Atomite Products Company, Los Angeles, Calif. Powder for tires. Nos. 127,976-7; Dec. 16; v. 269; p. 543.
- Olson Rug Company, Chicago, Ill. Woven rugs. No. 126,051; July 22; v. 264; p. 698.
- Oneida Community, Limited, Oneida, N. Y. Teacett-spoons. No. 126,950; Oct. 14; v. 267; p. 336.
- Oneida Community Limited, Oneida, N. Y. Game-traps. No. 128,146; Dec. 23; v. 269; p. 699.
- Onondaga Pottery Company, Syracuse, N. Y. Chinaware. No. 124,469; Feb. 18; v. 259; p. 572.
- Oppenheimer, Henry E., New York, N. Y. Rings, lavalieres, necklaces, studs, &c. No. 124,470; Feb. 18; v. 259; p. 572.
- Oppermann, Theodore W., St. Louis, Mo. Pharmaceutical preparations. No. 126,736; Sept. 30; v. 266; p. 736.
- Optolene Co., Richmond, Va. Eye-wash. No. 125,495; May 20; v. 262; p. 476.



## Alphabetical list of registrants of trade-marks—Continued.

- Orange Dew Co., Inc., New York, N. Y. Non-alcoholic non-cereal beverages and syrups for making same. No. 127,200; Oct. 21; v. 267; p. 484.
- Ordinator Company, Inc., New York, N. Y. Window-shade cloth. No. 124,137; Jan. 14; v. 258; p. 445.
- Ortega, Domingo A., Bernardo, N. Mex. Medicine for sciatica, cramps, paralysis, &c. No. 127,106; Oct. 21; v. 267; p. 381.
- Osborne, Fred H., Detroit, Mich. Preparations for the treatment of earache, toothache, headache. No. 125,756; June 10; v. 263; p. 328.
- Osherman, Mollie E., Chicago, Ill. Sanitary bloomers. No. 126,951; Oct. 14; v. 267; p. 336.
- Oshkosh Muslin Underwear Co., Oshkosh, Wis. Ladies' and children's underwear and aprons. No. 126,052; July 22; v. 264; p. 698.
- Oshkosh Seed Co., Oshkosh, Wis. Insecticide used on plants, vegetables, &c. No. 124,389; Feb. 11; v. 259; p. 380.
- Oso, Bory, New York, N. Y. Musical compositions. No. 127,860; Dec. 9; v. 269; p. 388.
- Ostberg, Ivan, Chicago, Ill. Grass-seed. No. 127,468; Nov. 11; v. 268; p. 374.
- Oswego River Paper Mills, Phoenix, N. Y. Toilet-paper. No. 125,909; July 8; v. 264; p. 349.
- Oswego River Paper Mills, Phoenix, N. Y. Toilet-paper. No. 126,459; Aug. 26; v. 265; p. 629.
- Oswego Shade Cloth Company, Oswego, N. Y. Shade-cloth. No. 124,573; Feb. 25; v. 259; p. 773.
- Oswego Shade Cloth Company, Oswego, N. Y. Shade-cloth. No. 125,833; June 17; v. 263; p. 478.
- Otis Co., Ware, Mass. Knit and woven underwear for men. No. 126,053; July 22; v. 264; p. 698.
- Otis Co., Ware, Mass. Cotton piece goods. No. 126,054; July 22; v. 264; p. 698.
- Otis Company, Ware, Mass. Cotton piece goods. No. 127,978; Dec. 16; v. 269; p. 543.
- Ottawa Milling Company, Kansas City, Mo., and Ottawa, Kans. Wheat-flour. No. 125,876; June 24; v. 263; p. 631.
- Ottawa Milling Company, Kansas City, Mo., and Ottawa, Kans. Wheat-flour. No. 126,331; Aug. 19; v. 265; p. 454.
- Otto F. Stifel's Union Brewing Company, St. Louis, Mo. Oeomargarin. No. 126,358; Aug. 19; v. 265; p. 454.
- Otto Heineman Phonograph Supply Co. Inc., New York, N. Y. Talking-machine records. No. 124,138; Jan. 14; v. 258; p. 445.
- Otto Heineman Phonograph Supply Co., Inc., New York, N. Y. Talking-machines, phonographs, graphophones, gramophones. No. 124,831; Mar. 18; v. 260; p. 555.
- Otto Heineman Phonograph Supply Co., Inc., New York, N. Y. Motors for talking-machines, &c. No. 126,055; July 22; v. 264; p. 698.
- Otto Heineman Phonograph Supply Co., Inc., New York, N. Y. Certain named sound-records, talking-machines, phonographs, &c. No. 126,431; Aug. 26; v. 265; p. 628.
- Otto Heineman Phonograph Supply Co. Inc., New York, N. Y. Needles for talking-machines and phonograph-needles. No. 127,658; Nov. 18; v. 268; p. 559.
- Ough, Norval B., El Monte, Cal. Canned tomatoes. No. 124,139; Jan. 14; v. 258; p. 445.
- Ough, Norval B., El Monte, Calif. Canned tomatoes, spinach, string-beans, &c. No. 124,870; Mar. 18; v. 260; p. 556.
- Overton, Anthony, Chicago, Ill. Roach, ant, and bedbug killer. No. 126,737; Sept. 30; v. 266; p. 736.
- Oxnard Citrus Ass'n, Hueneme and Oxnard, Calif. Fresh citrus fruits. No. 126,738; Sept. 30; v. 266; p. 736.
- Oxnard Citrus Ass'n, Hueneme and Oxnard, Calif. Lemons. Nos. 127,469-70; Nov. 11; v. 268; p. 374.
- Oxygen Gas Company, Kansas City, Mo. Nitrous oxid prepared especially for anesthetic purposes and oxygen gas for medical purposes. No. 127,471; Nov. 11; v. 268; p. 374.
- Oxygen Products Company, Thief River Falls, Minn. Chemical carbon-preventive. No. 127,776; Dec. 2; v. 269; p. 187.
- Ozark Fruit Grower's Association, Springfield, Mo. Fresh strawberries, blackberries, raspberries, cherries, grapes. No. 125,496; May 20; v. 262; p. 476.
- Ozark Medicine Company, The, Springfield, Mo. Tablets for la grippe and colds. No. 125,162; Apr. 15; v. 261; p. 626.
- P. Centemeri & Company, New York, N. Y. Knit and leather gloves for men and women. No. 125,030; Apr. 8; v. 261; p. 405.
- P. Linck Co. Inc., The, New York, N. Y. Cotton piece goods. No. 125,462; May 20; v. 262; p. 475.
- P. Pastene & Co. Inc., Boston, Mass. Canned olive-oil and tomato sauce. No. 124,575; Feb. 25; v. 259; p. 773.
- P. A. Field Shoe Co., Beverly, Mass. Shoes made of leather. No. 127,394; Nov. 11; v. 268; p. 371.
- P. E. Harris & Co., Seattle, Wash. Canned salmon. No. 126,855; Oct. 7; v. 267; p. 178.
- P. L. M. Corporation, New York, N. Y. Ink in tablet form. No. 126,059; July 22; v. 264; p. 698.
- P. & M. Giardina, Ensley, Ala. Macaroni, spaghetti, &c. No. 127,185; Oct. 21; v. 267; p. 483.
- P. W. Coppersmith & Co., Chicago, Ill. Fresh tomatoes. No. 125,330; May 13; v. 262; p. 309.
- Pabst Brewing Company, Milwaukee, Wis. Specially-prepared malt extract with high enzymatic properties. No. 127,861; Dec. 9; v. 269; p. 388.
- Pabst, Friedolin, Chicago, Ill. Chemical preparation for exterminating rats and mice. No. 125,163; Apr. 15; v. 261; p. 626.
- Pabst Pure Extract Co., Inc., Reading, Pa. Food-flavoring extracts. No. 126,056; July 22; v. 264; p. 698.
- Pacific Coast Borax Company, New York, N. Y.; Chicago, Ill., and Oakland, Calif. Toilet and bath powder. No. 126,461; Aug. 26; v. 265; p. 629.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 125,474; May 20; v. 262; p. 476.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 127,979; Dec. 16; v. 269; p. 543.
- Pacific Sanitary Manufacturing Company, San Francisco, Calif. Hardware, &c. No. 126,739; Sept. 30; v. 266; p. 736.
- Package Confectionery Company, Boston, Mass. Candy. No. 128,253; Dec. 30; v. 269; p. 882.
- Paige-Detroit Motor Car Company, Detroit, Mich. Automobiles. No. 124,985; Apr. 1; v. 261; p. 198.
- Palatine Aniline & Chemical Corporation, Poughkeepsie, N. Y. Dyes. No. 124,871; Mar. 18; v. 260; p. 557.
- Palatine Aniline & Chemical Corporation, Poughkeepsie, N. Y. Dyes. No. 127,777; Dec. 2; v. 269; p. 187.
- Palmer Candy Company, Sioux City, Iowa. Candy. No. 126,332; Aug. 19; v. 265; p. 454.
- Palmolive Company, The, Milwaukee, Wis. Toilet powders. No. 126,462; Aug. 26; v. 265; p. 629.
- Palmolive Company, The, Milwaukee, Wis. Toilet powders. Nos. 126,740-1; Sept. 30; v. 266; p. 736.
- Palmolive Company, Milwaukee, Wis. Face-powder. No. 126,742; Sept. 30; v. 266; p. 737.
- Pandolfo, Samuel C., St. Cloud, Minn. Tractors. No. 127,778; Dec. 2; v. 269; p. 187.
- Papperman, John, Houston, Tex. Antiseptics and disinfectants. No. 126,743; Sept. 30; v. 266; p. 737.
- Paquin-Snyder Co. Inc., The, Jamestown, N. Y. Coffee. No. 126,745; Sept. 30; v. 266; p. 737.
- Para Company, The, Trenton, N. J. Rubber tires and tubes. No. 126,744; Sept. 30; v. 266; p. 737.
- Paragon Tool Company, Seattle, Wash. Certain named cutlery, machinery, and tools, and parts thereof. No. 126,192; July 29; v. 264; p. 861.
- Paramount Drug Co., The, Washington, D. C. Certain medicinal tonic and blood-purifier. No. 125,303; May 6; v. 262; p. 165.
- Paris Medicine Company, St. Louis, Mo. Antiseptic healing-salve. No. 126,885; Oct. 7; v. 267; p. 179.
- Park & Tilford, New York, N. Y. Coffee and tea. No. 124,471; Feb. 18; v. 259; p. 572.
- Park & Tilford, New York, N. Y. Tea. No. 124,872; Mar. 18; v. 260; p. 557.
- Park & Tilford, New York, N. Y. Tea. No. 124,987; Apr. 1; v. 261; p. 198.
- Parker Brothers, Portland, Me., and Salem, Mass. Military games. No. 124,205; Jan. 21; v. 258; p. 641.
- Parker, George H., Stamford, Conn. Game-boards and pieces therefor. No. 125,246; Apr. 22; v. 261; p. 796.
- Parker, George H., Stamford, Conn. Game-boards and pieces therefor. No. 125,834; June 17; v. 263; p. 478.
- Parker, Holmes & Co., Boston, Mass. Leather boots and shoes for men, women, and children. No. 127,472; Nov. 11; v. 268; p. 374.
- Parker, Maud W., New York, N. Y. Silk goods in the piece. No. 128,147; Dec. 23; v. 269; p. 699.
- Parker Supply Company, Inc., New York, N. Y. Expansion-bolts, metal screws, &c. No. 127,862; Dec. 9; v. 269; p. 388.
- Parks Bros. & Rogers, Inc., Providence, R. I. Cuff-buttons. No. 127,107; Oct. 21; v. 267; p. 481.
- Parson's Chemical Works, Grand Ledge, Mich. Medicine for live stock. No. 125,710; June 3; v. 263; p. 164.
- Parson's Chemical Works, Grand Ledge, Mich. Antiseptic, insecticide, and disinfectant for live stock. No. 126,333; Aug. 19; v. 265; p. 454.
- Parsons Chemical Works, Grand Ledge, Mich. Insecticide and disinfectant for live stock. No. 126,334; Aug. 19; v. 265; p. 454.
- Parsons Trading Company, New York, N. Y. Monthly trade publications. No. 125,164; Apr. 15; v. 261; p. 626.
- Parsons & Whittemore, Incorporated, New York, N. Y. Writing, printing, blotting, and wrapping papers. No. 124,574; Feb. 25; v. 259; p. 773.
- Passero, Alfred, Rochester, N. Y. Dyes for leather. No. 127,779; Dec. 2; v. 269; p. 187.
- Paszkwicz, Alexander, Shenandoah, Pa. Non-alcoholic liquid invigorant. No. 125,089; Apr. 8; v. 261; p. 407.
- Paszkwicz, Alexander, Shenandoah, Pa. Shoe-polish. No. 125,165; Apr. 15; v. 261; p. 626.
- Pathe Freres Phonograph Company, Brooklyn, N. Y. Phonographs. No. 127,108; Oct. 21; v. 267; p. 481.
- Pathoscope Co. of America, The, New York, N. Y. Motion-picture-projecting machines and parts thereof. No. 126,568; Sept. 16; v. 266; p. 446.
- Paterson, James A., Glasgow, Scotland. Leather boots and shoes. No. 125,304; May 6; v. 262; p. 165.



- Paul Brothers, Inc., Philadelphia, Pa. Women's, misses', and nurses' comfort-shoes. No. 126,886; Oct. 7; v. 267; p. 179.
- Paul De Laney Co. Inc., Brocton, N. Y. Grape and apple juices, apple cider. No. 127,373; Nov. 11; v. 268; p. 371.
- Paul F. Beich Co., Bloomington, Ill. Candies. No. 127,325; Nov. 11; v. 268; p. 369.
- Pearis, Mamie, Bluefield, W. Va. Preparation for promoting the growth of the hair. No. 125,356; May 13; v. 262; p. 310.
- Pearsall, Samuel, New York, N. Y. Woolen, cotton, silk, and mixed piece goods. No. 124,988; Apr. 1; v. 261; p. 198.
- Pearson Products Corporation, New York, N. Y. Waterproofing preparation for wearing-apparel and textiles. No. 126,746; Sept. 30; v. 266; p. 737.
- Pease Piano Co., New York, N. Y. Pianos and piano-players. No. 125,357; May 13; v. 262; p. 310.
- Peck & Co., New York, N. Y. Ladies' outer garments. No. 127,473; Nov. 11; v. 268; p. 374.
- Peck, Monroe S., Erie, Pa. Medicinal preparations. No. 127,863; Dec. 9; v. 269; p. 389.
- Pecora Paint Company, Philadelphia, Pa. Stains for mortars and cement. No. 125,140; Jan. 14; v. 258; p. 445.
- Peggy Hoyt, Inc., New York, N. Y. Millinery, gowns, and furs. No. 124,722; Mar. 11; v. 260; p. 387.
- Pelejero, José L., New York, N. Y. Canned olive-oil. No. 125,497; May 20; v. 262; p. 476.
- Pelgram & Meyer, New York, N. Y. Grape goods in the piece. No. 127,980; Dec. 16; v. 269; p. 543.
- Pelican Well Tool & Supply Co., Shreveport and Vivian, La. Bits used in drilling or sinking wells. No. 128,150; Dec. 23; v. 269; p. 699.
- Pell, George W., Denver, Colo. Certain named foods. No. 125,877; June 24; v. 263; p. 631.
- Pelton Steel Company, Milwaukee, Wis. Steel castings. No. 127,109; Oct. 21; v. 267; p. 481.
- Penick & Ford, Ltd., New Orleans, La. Molasses and table-syrups. No. 126,747; Sept. 30; v. 266; p. 737.
- Peninsular Chemical Co., Detroit, Mich. Face and talcum powders. No. 126,463; Aug. 26; v. 265; p. 629.
- Peninsular Chemical Co., Detroit, Mich. Dentifrice and talcum powder. Nos. 126,748-9; Sept. 30; v. 266; p. 737.
- Peninsula Chemical Co., Detroit, Mich. Shaving-cream. No. 127,474; Nov. 11; v. 268; p. 374.
- Peninsular Products Company, Wilmington, Del. Soft drinks. No. 126,335; Aug. 19; v. 265; p. 454.
- Penn American Refining Co., Oil City, Pa. Fuel, lighting, &c., oils and paraffin-wax. No. 127,864; Dec. 9; v. 269; p. 389.
- Penn Leather Co., Philadelphia, Pa. Leather. No. 126,605; Sept. 23; v. 266; p. 593.
- Penrod, William F., Blanchester, assignor to Auto Sales and Service Company, Cincinnati, Ohio. Electric-light-controlling switches, &c., for automobiles. No. 127,475; Nov. 11; v. 268; p. 374.
- Pennsylvania Chocolate Company, Pittsburgh, Pa. Certain named foods. No. 124,577; Feb. 25; v. 259; p. 773.
- Pennsylvania Textile Mills, Incorporated, Glenriddle, Pa., and New York, N. Y. Fabrics. No. 128,148; Dec. 23; v. 269; p. 699.
- Peoples Brewing Company, Trenton, N. J. Certain named malt beverages, extracts, and liquors. No. 124,936; Mar. 25; v. 260; p. 729.
- People's Outfitting Company, Detroit, Mich. Imitation leather. No. 125,910; July 8; v. 264; p. 349.
- Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. No. 125,358; May 13; v. 262; p. 310.
- Pepsotone Company, Huntington, W. Va. Tonic and laxative tablets and medicines for certain disorders of the stomach and liver. No. 128,151; Dec. 23; v. 269; p. 699.
- Perfection Biscuit Co., Fort Wayne, Ind. Bread. No. 127,476; Nov. 11; v. 268; p. 374.
- Perfection Tire & Rubber Co., Fort Madison, Iowa. Pneumatic tires. No. 125,911; July 8; v. 264; p. 349.
- Perfection Stock Food Company, Inc., Buffalo, N. Y. Condition-powder for horses. No. 124,408; Feb. 11; v. 259; p. 380.
- Permutit Company, The, New York, N. Y. Water purifying and treating materials. Nos. 124,141-2; Jan. 14; v. 258; p. 445.
- Permutit Company, The, New York, N. Y. Certain named chemicals or mixtures thereof for treating liquids. No. 125,305; May 6; v. 262; p. 165.
- Peterson, Christin J., Chicago, Ill. Motion-picture machines. No. 124,760; Mar. 11; v. 260; p. 388.
- Peterson, Frank W., Minneapolis, Minn. Medicinal nutritive tonic for internal use. No. 127,477; Nov. 11; v. 268; p. 374.
- Peterson, Frank W., Minneapolis, Minn. Liniment for pains in the muscles and neuralgia, &c. No. 127,478; Nov. 11; v. 268; p. 374.
- Petroleum Publishing Company, Chicago, Ill. Journals published monthly. No. 125,498; May 20; v. 262; p. 476.
- Pfefferkorn, Willy, Zug, Switzerland. Skinning apparatus for killed animals. No. 126,194; July 29; v. 264; p. 861.
- Pharmaceutische en Chemische, Handelsvereniging "Rotterdam," Rotterdam, Netherlands. Medicinal wadding for treatment of rheumatism. No. 125,939; July 15; v. 264; p. 531.
- Phenol Chemical Company, The, Chicago, Ill. Hand-sprayers for application of moth preventive and exterminator. No. 126,569; Sept. 16; v. 266; p. 447.
- Philadelphia Buffet, Philadelphia, Pa. Certain named foods. No. 124,507; Feb. 25; v. 259; p. 771.
- Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. No. 124,937; Mar. 25; v. 260; p. 729.
- Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. No. 125,499; May 20; v. 262; p. 476.
- Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. No. 127,479; Nov. 11; v. 268; p. 374.
- Philadelphia Specialty Co., Philadelphia, Pa. Silver-polish. No. 126,464; Aug. 26; v. 265; p. 629.
- Phillips, Davis, New York, N. Y. Disinfectant. No. 127,664; Nov. 18; v. 268; p. 560.
- Phillips-Jones Company, Inc., New York, N. Y. Men's outer and night shirts, pajamas, underwear, collars and cuffs. No. 126,057; July 22; v. 264; p. 698.
- Phillips, Joseph C., Philadelphia, Pa. Massage-cream. No. 124,873; Mar. 18; v. 260; p. 557.
- Phillips, Lester E., Detroit, Mich. Medicinal treatment for goiter. No. 127,780; Dec. 2; v. 269; p. 187.
- Phoenix Rubber Co., The, Akron, Ohio. Vulcanized boots and shoes and soles and heels. No. 126,887; Oct. 7; v. 267; p. 179.
- Photoplay Publishing Company, Chicago, Ill. Magazine-section. No. 124,143; Jan. 14; v. 258; p. 445.
- Pickering, John W., Leominster, Mass. Certain named receptacles made of pyroxylin. No. 125,672; June 3; v. 263; p. 163.
- Pictorial Review Company, The, New York, N. Y. Dress-patterns. No. 127,110; Oct. 21; v. 267; p. 481.
- Piedmont Chemical Works, Atlanta, Ga. Laxative wafer. No. 126,058; July 22; v. 264; p. 698.
- Pierce-Arrow Motor Car Company, Buffalo, N. Y. Motor-vehicles. Nos. 125,673-4; June 3; v. 263; p. 163.
- Pierce-Arrow Motor Car Company, Buffalo, N. Y. Motor-vehicles. Nos. 127,292-3; Nov. 4; v. 268; p. 188.
- Piggott, John D., Highland Park, Mich. Cigars, tobacco, cigarettes. No. 124,875; Mar. 18; v. 260; p. 557.
- Pike Medicine Company, Winston-Salem, N. C. Pike's liver and stomach remedy. No. 126,954; Oct. 14; v. 267; p. 336.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-flour. No. 126,336; Aug. 19; v. 265; p. 454.
- Pine Tree Milking Machine Co., Chicago, Ill. Milking-machines. No. 125,500; May 20; v. 262; p. 476.
- Pioneer Fruit Co., The, Sacramento, Calif. Fresh grapes, peaches, apples, pears, plums. No. 126,750; Sept. 30; v. 266; p. 737.
- Pirelli & C., Milan, Italy. Certain named rubber goods or goods having rubber incorporated therein. No. 124,262; Jan. 28; v. 258; p. 810.
- Pittman & Harrison Company, Sherman, Tex. Seeds. Nos. 124,876-7; Mar. 18; v. 260; p. 557.
- Pitts, E. H., Toombsboro, Ga. Preparation for the treatment of neuralgia, headache, backache, biliousness. No. 124,144; Jan. 14; v. 258; p. 445.
- Pitts and Kitts Mfg. and Supply Co., New York, N. Y. Refractory cements. No. 124,145; Jan. 14; v. 258; p. 445.
- Pittsburgh Brewing Company, Pittsburgh, Pa. Malt beverage. Nos. 127,660-3; Nov. 18; v. 268; pp. 559-60.
- Pittsburgh By-Product Coke Company. Motor-fuel in liquid form. No. 126,465; Aug. 26; v. 265; p. 629.
- Pittsburgh Waterproof Company, Pittsburgh, Pa. Woven cotton padding and tarpaulin and canvas covers for vehicles, &c. No. 126,751; Sept. 30; v. 266; p. 737.
- Placencia Mutual Orange Association, Placencia, Calif. Oranges in fresh or natural condition. No. 124,874; Mar. 18; v. 260; p. 557.
- Placer County Growers Canning Association, Lincoln, Calif. Canned fruits. No. 128,254; Dec. 30; v. 269; p. 882.
- Plapao Laboratories, Inc., St. Louis, Mo. Hernia-pads. No. 124,646; Mar. 4; v. 260; p. 197.
- Platifice Chemical Company, St. Louis, Mo. Preparation for treatment of canals in teeth. No. 124,578; Feb. 25; v. 259; p. 773.
- Platts Box Company, Troy, N. H. Boys' sets of carpenters' tools in chests. No. 127,243; Oct. 28; v. 267; p. 644.
- Platzter, Charles B., Baltimore, Md. Remedy for headaches. No. 126,888; Oct. 7; v. 267; p. 179.
- Pneumo-Phthysine Chemical Company, Chicago, Ill. Medicinal plaster for the alleviation of pneumonia, &c. No. 126,466; Aug. 26; v. 265; p. 630.
- Poirier and Lindeman Co., New York, N. Y. Hair-nets. Nos. 127,981-2; Dec. 16; v. 269; p. 543.
- Polly Bros., New York, N. Y. Cheese. No. 127,665; Nov. 18; v. 268; p. 560.
- Polygon Products Co., Boston, Mass. Liquid preparation for removing tar, asphalt, oil, and grease. No. 124,579; Feb. 25; v. 259; p. 773.
- Pomeroy Ink Manufacturing Co., Newark, N. J. Inks and stamp-pads. No. 128,152; Dec. 23; v. 269; p. 699.
- Ponzio Brothers, Philadelphia, Pa. Metal-polish. No. 126,467; Aug. 26; v. 265; p. 630.



*Alphabetical list of registrants of trade-marks—Continued.*

- Porter, Henry K., Brookline and Everett, Mass. Bolt and rivet clippers. No. 126,195; July 29; v. 264; p. 861.
- Porter, John K., Scranton, Pa. Certain named household and office furniture. No. 126,570; Sept. 16; v. 266; p. 447.
- Post, Edward, Baltimore, Md. Maltless carbonated non-alcoholic beverages. No. 126,337; Aug. 19; v. 265; p. 454.
- Postum Cereal Company, Battle Creek, Mich. Cereal breakfast foods. No. 126,338; Aug. 19; v. 265; p. 454.
- Poughkeepsie Paint Co., Poughkeepsie, N. Y. Varnishes and sanding-fillers. No. 126,060; July 22; v. 264; p. 698.
- Pratt, Milan F., Rochester, N. Y. Preparation to correct an acid condition of the stomach. No. 127,666; Nov. 18; v. 268; p. 560.
- Pratt & Whitney Company, New York, N. Y. Certain named metal and wood working machines, parts thereof, and accessories therefor. No. 125,835; June 17; v. 263; p. 478.
- Pratt & Whitney Company, New York, N. Y. Precision-machines for measuring dimensions for gages. No. 127,111; Oct. 21; v. 267; p. 481.
- Pratt, William A., New York, N. Y. Furniture and automobile polish. No. 126,752; Sept. 30; v. 266; p. 737.
- Preller, Henry W., Baltimore, Md. Abrasive, detergent, and polishing materials. No. 128,255; Dec. 30; v. 269; p. 882.
- Preservative Paint Company, Seattle, Wash. Paints and varnishes. No. 125,836; June 17; v. 263; p. 478.
- Press, Earle P., Chicago, Ill. Head-supports, &c., for reinforced concrete constructions. No. 126,468; Aug. 26; v. 265; p. 630.
- Presto Snap Fastener Co. Inc., New York, N. Y. Snap-fasteners. No. 124,580; Feb. 25; v. 259; p. 773.
- Preston Brothers, New York, N. Y. Cleaning and polishing cream for ivory and silver. No. 125,501; May 20; v. 262; p. 476.
- Preusse, Herman, Spokane, Wash. Cleaning-powder compound for wall-paper, carpets, &c. No. 127,865; Dec. 9; v. 269; p. 389.
- Price-Booker Manufacturing Co., Houston, Tex. Certain named foods. No. 126,232; Aug. 12; v. 265; p. 301.
- Price Booker Mfg. Co., Houston, Tex. Peanut-butter. No. 126,753; Sept. 30; v. 266; p. 737.
- Price, Sterling S., Lexington, Ky. Pork, sausage, and lard. No. 125,878; June 24; v. 263; p. 631.
- Primo Products Company, San Francisco, Calif. Face-powder. No. 125,247; Apr. 22; v. 261; p. 796.
- Prince, W. M., Tacoma, Wash. Fabric and rubber tire-patches. No. 125,675; June 3; v. 263; p. 163.
- Priscilla Publishing Co., The, Boston, Mass. Certain named measuring and scientific appliances. No. 124,334; Feb. 4; v. 259; p. 178.
- Priscilla Publishing Co., Boston, Mass. Certain named threads and yarns. No. 125,502; May 20; v. 262; p. 476.
- Priscilla Publishing Co., The, Boston, Mass. Magazine published monthly. No. 127,112; Oct. 21; v. 267; p. 481.
- Prismolite Company, The, Columbus, Ohio. Window-ventilators. No. 127,983; Dec. 16; v. 269; p. 543.
- Prizma, Incorporated, New York, N. Y. Motion-picture films. No. 126,956; Oct. 14; v. 267; p. 336.
- Probst & Co., A. O., New York, N. Y. Cotton fabrics. No. 124,581; Feb. 25; v. 259; p. 773.
- Progressive Knitting Mills, Royersford, Pa. Knitted underwear. No. 126,889; Oct. 7; v. 267; p. 179.
- Propper, Harry, New York, N. Y. Laundry blue. No. 126,062; July 22; v. 264; p. 698.
- Providence Churning Company, Providence, R. I. Oleo-margarin. No. 127,113; Oct. 21; v. 267; p. 481.
- Pryor, Norris, Louisiana, Mo. Salve for use in the treatment of piles. No. 126,890; Oct. 7; v. 267; p. 179.
- Public Bottling Works, New York, N. Y. Non-alcoholic maltless beverages. No. 126,196; July 29; v. 264; p. 861.
- Public Ledger Company, Philadelphia, Pa. Art feature. No. 127,866; Dec. 9; v. 269; p. 389.
- Pugh, Charles H., Denver, Colo. Quarterly periodical publication. No. 125,306; May 6; v. 262; p. 165.
- Pulver Company, Inc., Rochester, N. Y. Chewing-gum. No. 126,754; Sept. 30; v. 266; p. 737.
- Pure Cane Molasses Corporation, New York, N. Y. Molasses. No. 126,339; Aug. 19; v. 265; p. 454.
- Pure Food Factory "Hansa," Mamaroneck, N. Y. Bouillon cubes and vegetable and beef extracts in solid and fluid form. No. 127,667; Nov. 18; v. 268; p. 560.
- Purisol Products Corporation, Brooklyn, N. Y. Toilet, castle, and laundry soaps, metal-polish. No. 127,114; Oct. 21; v. 267; p. 481.
- Puritan Chocolate Co., The, Cincinnati, Ohio. Chocolate candy. No. 125,880; June 24; v. 263; p. 631.
- Purnhagen, William, St. Louis, Mo. Metallic heels for leather boots and shoes. No. 127,668; Nov. 18; v. 268; p. 560.
- Pyrene Manufacturing Company, New York, N. Y. Portable fire-extinguishers. No. 124,335; Feb. 4; v. 259; p. 178.
- Pyrofoam Company, The, Chicago, Ill. Chemical fire-extinguishers. No. 124,336; Feb. 4; v. 259; p. 179.
- Queñones, Francisco P., New York, N. Y. Medicinal preparation for nerves and blood. No. 125,503; May 20; v. 262; p. 476.
- Quimby & Cheney, Inc., Boston, Mass. Candy. No. 125,307; May 6; v. 262; p. 165.
- Quimby & Cheney, Inc., Boston, Mass. Candy. No. 125,359; May 13; v. 262; p. 310.
- Quimby & Cheney, Inc., Boston, Mass. Candy. No. 126,891; Oct. 7; v. 267; p. 179.
- Quinn, Wm. J., Jr., Wheeling, W. Va. Preparation for the treatment of certain named diseases. No. 125,248; Apr. 22; v. 261; p. 797.
- R. Gerber & Co., Chicago, Ill. Salad and cooking oil. No. 127,945; Dec. 16; v. 269; p. 542.
- R. Hickmott Canning Co., San Francisco and Orwood, Calif. Canned asparagus. No. 125,650; June 3; v. 263; p. 162.
- R. B. Davis Company, Hoboken, N. J. Baking-powder. Nos. 125,983-4; July 22; v. 264; p. 696.
- R. C. H. Covington Co., Richmond, Ky. Shoes and boots. No. 124,375; Feb. 11; v. 259; p. 379.
- R. C. Wade Co., Chicago, Ill. Needles for phonographs. No. 128,195; Dec. 23; v. 269; p. 700.
- R & G Co., The, Attleboro, Mass. Certain named articles made of plated or precious metal. No. 124,878; Mar. 18; v. 260; p. 557.
- R. H. Macy & Co., New York, N. Y. Hosiery. No. 127,635; Nov. 18; v. 268; p. 559.
- R. J. Darnell, Incorporated, Memphis, Tenn. Milled lumber. Nos. 126,521-2; Sept. 16; v. 266; p. 445.
- R. J. Lea, Limited, Manchester, England. Cigarettes. Nos. 128,100-1; Dec. 23; v. 269; p. 698.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Smoking-tobacco and cigarettes. No. 126,760; Sept. 30; v. 266; p. 737.
- R. P. Smith & Co., Georgetown, Ill. Pile remedy. No. 127,791; Dec. 2; v. 269; p. 187.
- Racine Auto Tire Company, Racine, Wis. Rubber heels or lifts for footwear. No. 126,063; July 22; v. 264; p. 698.
- Racine Auto Tire Company, Racine, Wis. Molded rubber and composition cushion-heels and heel-lifts for shoes and the like. No. 127,480; Nov. 11; v. 268; p. 374.
- Racine Auto Tire Company, Racine, Wis. Vehicle-tires made wholly or partly of rubber and inner tubes for pneumatic tires. No. 128,153; Dec. 23; v. 269; p. 699.
- Radlinsky, Abraham D., Denver, Colo. Wiping-rags for machinery and the like. Nos. 124,146-7; Jan. 14; v. 258; p. 445.
- Racine Chemical Company, The, Cincinnati, Ohio. Medicine for lung trouble. No. 124,938; Mar. 25; v. 260; p. 729.
- Rahn, Charles C., Springfield, Mass. Vegetable-seed. No. 125,360; May 13; v. 262; p. 310.
- Rainbow Chocolate Company, Chicago, Ill. Chocolate and candy. No. 128,154; Dec. 23; v. 269; p. 699.
- Rainier Motor Corporation, Flushing, N. Y. Motor-trucks. No. 128,155; Dec. 23; v. 269; p. 699.
- Ralo Toy Company, Worcester, Mass. Toy blocks. No. 127,115; Oct. 21; v. 267; p. 481.
- Ralston Purina Company, St. Louis, Mo. Cornmeal. No. 124,206; Jan. 21; v. 258; p. 641.
- Ramsay, Harold W., Boston, Mass. Pasteboard cartons for dispensing shoe-laces, &c. No. 128,156; Dec. 23; v. 269; p. 699.
- Randolph-Clowes Company, The, Waterbury, Conn. Bronze metal as unmanufactured material in various forms. No. 124,337; Feb. 4; v. 259; p. 179.
- Raniville, Loova A., Grand Rapids, Mich. Leather belting. No. 125,912; July 8; v. 264; p. 349.
- Rapp, Samuel W., Jr., Morton, Ill. Cleaning compound for the hands, fabrics, &c. No. 127,481; Nov. 11; v. 268; p. 374.
- Rath Packing Company, The, Waterloo, Iowa. Bacon, ham, meat products. No. 124,338; Feb. 4; v. 259; p. 179.
- Rath Packing Company, The, Waterloo, Iowa. Certain named foods. No. 124,339; Feb. 4; v. 259; p. 179.
- Ravarino & Freschi Importing & Mfg. Co., St. Louis, Mo. Alimentary paste products. No. 125,361; May 13; v. 262; p. 310.
- Raymond, R., assignor to Mutual Paint Company, St. Paul, Minn. Ready-mixed paints and varnishes. No. 126,197; July 29; v. 264; p. 861.
- Ream, C. W., Los Angeles, Cal. Medicinal preparation for the treatment of alcoholism. No. 124,148; Jan. 14; v. 258; p. 445.
- Reciprocity Supply Company, Habana, Cuba. Prepared roofing. No. 124,879; Mar. 18; v. 260; p. 557.
- Reciprocity Supply Company, Habana, Cuba. Machetes and cane-cutting knives. No. 126,571; Sept. 16; v. 266; p. 447.
- Red-Oint-A Chemical Co. Inc., Boston, Mass. Ointment for eczema, &c. No. 127,867; Dec. 9; v. 269; p. 389.
- Red River Woolen Mills Co., Fergus Falls, Minn. Knit sweaters, mackinaws, knit underwear. No. 125,090; Apr. 8; v. 261; p. 407.
- Red Wing Linseed Oil Company, Newark, N. J. Linseed-oil. No. 126,755; Sept. 30; v. 266; p. 737.
- Red Wing Linseed Oil Company, Newark, N. J. Animal and stock foods. No. 127,482; Nov. 11; v. 268; p. 374.
- Redel Candy Corporation, Milwaukee, Wis. Candy. No. 127,116; Oct. 21; v. 267; p. 481.



- Redlands Mutual Orange Company, Redlands, Calif. Fresh oranges. No. 125,940; July 15; v. 264; p. 531.
- Redmanol Chemical Products Co., Chicago, Ill. Plastic synthetic compound comprising a phenolic condensation product. No. 124,149; Jan. 14; v. 258; p. 445.
- Reed Food Company, Indianapolis, Ind. Non-alcoholic beverage. No. 127,669; Nov. 18; v. 268; p. 560.
- Reed Tobacco Company, Richmond, Va. Cigarettes. No. 128,157; Dec. 23; v. 269; p. 699.
- Reese & Reese, Baltimore, Md. Writing-papers. No. 126,756; Sept. 30; v. 266; p. 737.
- Refining Products Corporation, New York, N. Y. Decolorizing-carbon. No. 126,469; Aug. 26; v. 265; p. 630.
- Refractories Company, New York, N. Y. Fire-brick cement. No. 124,989; Apr. 1; v. 261; p. 198.
- Regatta Manufacturing Co., Inc., Baltimore, Md. Woven-fabric union-suits. No. 124,582; Feb. 25; v. 259; p. 773.
- Regina Swimming Devices Co., New York, N. Y. Swimming or bathing devices. No. 127,483; Nov. 11; v. 268; p. 374.
- Reichman & Faust, New York, N. Y. Hair-nets. No. 127,984; Dec. 16; v. 269; p. 543.
- Reichman & Faust, New York, N. Y. Hair-nets. No. 128,158; Dec. 23; v. 269; p. 699.
- Reilley, James J., Philadelphia, Pa. Canned tomatoes. No. 125,506; May 20; v. 262; p. 476.
- Relly-Taylor Company, The, New Orleans, La. Teas. No. 126,340; Aug. 19; v. 265; p. 454.
- Reiman, Max, New York, N. Y. Germicide. No. 127,781; Dec. 2; v. 269; p. 187.
- Reisner, George W., Lancaster, Pa. Candy. No. 127,484; Nov. 11; v. 268; p. 374.
- Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 125,092; Apr. 8; v. 261; p. 407.
- Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 127,985; Dec. 16; v. 269; p. 543.
- Remiler Rubber Co., Ashland, Ohio. Rubber and fabric articles. No. 127,117; Oct. 21; v. 267; p. 481.
- Remington Typewriter Company, Iliou and New York, N. Y. Type-writing machines. No. 125,508; May 20; v. 262; p. 477.
- Remington Typewriter Company, Iliou and New York, N. Y. Carbon-paper. No. 125,509; May 20; v. 262; p. 477.
- Remmers Soap Company, The, Cincinnati, Ohio. Toilet soap. No. 125,167; Apr. 15; v. 261; p. 626.
- Remmert, William, St. Louis, Mo. Laundry-washing machines. No. 128,159; Dec. 23; v. 269; p. 699.
- Renken & Yates Smith, Inc., New York, N. Y. Loganberry-juice. No. 127,670; Nov. 18; v. 268; p. 560.
- Reno Flour Mills Company, Hutchinson, Kans. Wheat-flour. No. 128,257; Dec. 30; v. 269; p. 882.
- Republic Electric Co., Incorporated, Orange, N. J. Electric incandescent lamps. No. 127,868; Dec. 9; v. 269; p. 389.
- Republic Player Roll Corporation, New York, N. Y. Music-rolls and record-sheets for automatic musical instruments. No. 124,150; Jan. 14; v. 258; p. 445.
- Republic Rubber Corporation, Youngstown, Ohio. So-called rubber tires, rubber-tire casings, and inner tubes. No. 127,118; Oct. 21; v. 267; p. 481.
- Republic Rubber Tire & Shoe Co., Inc., New York, N. Y. Rubber tires. No. 128,160; Dec. 23; v. 269; p. 699.
- Reso Products Co. Ltd., Zurich, Switzerland. Chemicals, medicines, &c. No. 126,957; Oct. 14; v. 267; p. 336.
- Reso Products Co. Ltd., Zurich, Switzerland. Antiseptic solution and salves. No. 127,485; Nov. 11; v. 268; p. 374.
- Reso Products Co. Ltd., Zurich, Switzerland. Antiseptic solutions and salves. No. 127,671; Nov. 18; v. 268; p. 560.
- Restorff & Bettmann, New York, N. Y. Leather-dye. No. 125,757; June 10; v. 263; p. 328.
- Reversible Collar Company, Boston, Mass. Collars, cuffs, shirt-bosoms. No. 126,065; July 22; v. 264; p. 698.
- Reversible Collar Company, Boston, Mass. Collars, cuffs, and shirt-bosoms. No. 128,161; Dec. 23; v. 269; p. 699.
- Rex File Company, The, Newcomerstown, Ohio. Files and rasps. No. 126,958; Oct. 14; v. 267; p. 336.
- Rex File Company, The, Newcomerstown, Ohio. Files and rasps. No. 127,486; Nov. 11; v. 268; p. 374.
- Ray-Jouvin Freres & Cie., Grenoble, France. Gloves. No. 127,487; Nov. 11; v. 268; p. 374.
- Rhein Shoe Co., St. Louis, Mo. Shoes. No. 124,880; Mar. 18; v. 260; p. 557.
- Rheumachol Laboratories Company, The, Idaho Springs, Colo. Medicinal preparation. No. 127,869; Dec. 9; v. 269; p. 389.
- Rhynsbarger, Harvey S., Oskaloosa, Iowa. Dressed poultry. No. 124,990; Apr. 1; v. 261; p. 198.
- Rhynsbarger, Harvey S., Oskaloosa, Iowa. Dressed poultry. No. 127,782; Dec. 2; v. 269; p. 187.
- Rialto Corporation, Long Beach, Calif. Salad sandwich-filling. No. 125,758; June 10; v. 263; p. 328.
- Rice Gummed Products Company, Boston, Mass. Tape-moisteners. No. 124,409; Feb. 11; v. 259; p. 380.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Certain named clothing. No. 124,762; Mar. 11; v. 260; p. 388.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton, linen, wool, &c., piece goods. No. 124,991; Apr. 1; v. 261; p. 198.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Silk and silk-mixed piece goods. No. 125,838; June 17; v. 263; p. 479.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 128,162; Dec. 23; v. 269; p. 699.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Blankets, lap-ropes, bedspreads, quilts, and comforts. No. 128,163; Dec. 23; v. 269; p. 700.
- Richards & Co., Incorporated, Boston, Mass. Mineral-surface asphalt shingles. No. 126,198; July 29; v. 264; p. 861.
- Richards-Wilcox Manufacturing Company, Aurora, Ill. Tracks for overhead load supporting and conveying mechanism. No. 127,121; Oct. 21; v. 267; p. 481.
- Richardson Silk Company, Chicago, Ill. Certain named threads and yarns. No. 125,881; June 24; v. 263; p. 631.
- Richmond Candy Company, Boston, Mass. Candies. No. 126,761; Sept. 30; v. 266; p. 737.
- Richmond Hosiery Mills, Rossville, Ga. Hosiery. No. 127,488; Nov. 11; v. 268; p. 374.
- Richmond Hosiery Mills, Rossville, Ga. Hosiery. No. 127,491; Nov. 11; v. 268; p. 374.
- Ridgely Trimmer Company, Springfield, Ohio. Certain named painters' and decorators' tools and supplies. No. 126,342; Aug. 19; v. 265; p. 454.
- Ridgely Trimmer Company, The, Springfield, Ohio. Decorators' and paper-hangers' tools and supplies. No. 126,960; Oct. 14; v. 267; p. 336.
- Ridgely Trimmer Company, The, Springfield, Ohio. Painters' and decorators' tools and supplies. No. 127,244; Oct. 28; v. 267; p. 644.
- Ridgely Trimmer Company, The, Springfield, Ohio. Cutlery, machinery, and tools, and parts thereof. No. 127,245; Oct. 28; v. 267; p. 644.
- Ridgely Trimmer Company, The, Springfield, Ohio. Steel-wool. No. 127,489; Nov. 11; v. 268; p. 374.
- Ridgely Trimmer Company, The, Springfield, Ohio. Painters', &c., tools and supplies. No. 127,492; Nov. 11; v. 268; p. 375.
- Ridgely Trimmer Company, The, Springfield, Ohio. Painters' and decorators' tools and supplies. No. 127,672; Nov. 18; v. 268; p. 560.
- Rimer, Orrsemies S., Dayton, Ohio. Salve. No. 127,122; Oct. 21; v. 267; p. 481.
- Rimo, Romulus P., Trenton, N. J. Ointment for certain named ailments. No. 125,711; June 3; v. 263; p. 164.
- Rionor Silk Company, Allentown, Pa. Ribbons. No. 127,870; Dec. 9; v. 269; p. 389.
- Ritzenthaler, John C. O., New York, N. Y. Cleaning and polishing cloths. No. 125,512; May 20; v. 262; p. 477.
- Rizik, Fred, Pittsburgh, Pa. Adhesive shoe-lining. No. 125,839; June 17; v. 263; p. 479.
- Roads Brothers Manufacturing Co., Chicago, Ill. Baking-powder. No. 124,410; Feb. 11; v. 259; p. 380.
- Robert E. Miller, Inc., New York, N. Y. Rubber heels. No. 128,128; Dec. 23; v. 269; p. 698.
- Robert H. Hassler, Inc., Indianapolis, Ind. Shock-absorber for Ford cars. No. 125,647; June 3; v. 263; p. 162.
- Robert Reis & Co., New York, N. Y. Certain named clothing. No. 125,091; Apr. 8; v. 261; p. 407.
- Robert Reis & Co., New York, N. Y. Wearing-apparel and furnishings for men, women, and children. No. 125,507; May 20; v. 262; p. 477.
- Robert Russell Bennett Company, New York, N. Y. Musical compositions. No. 127,810; Dec. 9; v. 269; p. 387.
- Robert Smith Ale Brewing Co., The, Philadelphia, Pa. Non-intoxicating cereal malt beverage, &c. No. 127,673; Nov. 18; v. 268; p. 560.
- Roberts, Chas. R., Knoxville, Tenn. Bread. No. 125,582; May 27; v. 262; p. 643.
- Robertson, John F., Pittsburgh, Pa. Extractors of boiler-tubes. No. 127,124; Oct. 21; v. 267; p. 481.
- Robins, Max, Chicago, Ill. Face-cream. No. 127,125; Oct. 21; v. 267; p. 481.
- Rock, Hazel, Salt Lake City, Utah. Children's underwear, dresses, nightgowns, pajamas. No. 126,066; July 22; v. 264; p. 698.
- Rock Island Butter Co., The, Toledo, Ohio. Oleomargarin. No. 124,411; Feb. 11; v. 259; p. 380.
- Rockfield Products Company, Milwaukee, Wis. Limestone-rock rectifier for soil. No. 124,583; Feb. 25; v. 259; p. 773.
- Rockfield Products Company, Milwaukee, Wis. Limestone-rock chicken feed. No. 125,362; May 13; v. 262; p. 310.
- Rockfield Products Company, Milwaukee, Wis. Limestone-rock chicken feed. No. 125,882; June 24; v. 263; p. 631.
- Rockfield Products Company, Milwaukee, Wis. Limestone-rock chicken feed. No. 127,295; Nov. 4; v. 268; p. 188.
- Rockwell Manufacturing Company, Camden, Ark. Hardware and fittings for doors. No. 126,199; July 29; v. 264; p. 861.
- Roegge, Fred C., Cleveland, Ohio. Electrical heating element for attachment to an internal-combustion engine. No. 126,572; Sept. 16; v. 266; p. 447.
- Roesch, August R., Philadelphia, Pa. Bottle-stoppers. No. 126,606; Sept. 23; v. 266; p. 593.



*Alphabetical list of registrants of trade-marks—Continued.*

- Rogers Fibre Company, Kennebunk, Me. Fiber-board. No. 125,168; Apr. 15; v. 261; p. 626.
- Rogers, Hennessey & Jenkins, Boston, Mass. Quilts, blankets, rugs, sheets, pillow-cases. No. 124,472; Feb. 18; v. 259; p. 572.
- Rogers, Hennessey & Jenkins, Boston, Mass. Cotton and wool blankets. No. 124,151; Jan. 14; v. 258; p. 445.
- Rogers, Levi M., Cincinnati, Ohio. Tonic for certain named ailments. No. 124,585; Feb. 25; v. 259; p. 773.
- Rogers Peet Company, New York, N. Y. Hosiery for men and boys. No. 125,513; May 20; v. 262; p. 477.
- Rogers Peet Company, New York, N. Y. Men's hats. No. 125,840; June 17; v. 263; p. 479.
- Rogers Peet Company, New York, N. Y. Leather shoes for men. No. 126,893; Oct. 7; v. 267; p. 179.
- Rogers Peet Company, New York, N. Y. Boys' outer suits. No. 126,894; Oct. 7; v. 267; p. 179.
- Rogers-Peet Company, New York, N. Y. Bicycle. No. 127,493; Nov. 11; v. 268; p. 375.
- Rogers Peet Company, New York, N. Y. Monthly magazine. No. 127,871; Dec. 9; v. 269; p. 389.
- Rogers & Son, J. J., Tupelo, Miss. Soda, baking-powder, laundry blue. No. 124,584; Feb. 25; v. 259; p. 773.
- Rogers & Son, J. J., Tupelo, Miss. Coffee, rice, wheat-flour, flavoring extracts. No. 125,094; Apr. 8; v. 261; p. 407.
- Rogers & Son, J. J., Tupelo, Miss. Rubber fruit-jar rings. No. 125,095; Apr. 8; v. 261; p. 407.
- Rogow, Elias, New York, N. Y. Magneto parts. No. 124,340; Feb. 4; v. 259; p. 179.
- Roman, James G., Wilmington, Del. Tonics and ointments for external use. No. 124,939; Mar. 25; v. 260; p. 729.
- Romayne Super-Film Corporation, Los Angeles, Calif. Motion-picture films. No. 125,841; June 17; v. 263; p. 479.
- Romagnino, Henri, Levallois-Perret, Paris, France. Antiseptics, disinfectants, and germicides. No. 125,504; May 20; v. 262; p. 476.
- Rooke, Bert G., Los Angeles, Calif. Fresh citrus fruits. No. 128,261; Dec. 30; v. 269; p. 882.
- Rosa, Thomas, New York, N. Y. Laxative pills. No. 126,068; July 22; v. 264; p. 698.
- Rosemary Dressmakers, New York, N. Y. Women's and misses' dresses. No. 127,872; Dec. 9; v. 269; p. 389.
- Rosenbaum & Mogal, Brooklyn, N. Y. Certain named cutlery and machinery. No. 125,249; Apr. 22; v. 261; p. 797.
- Rosenblatt, Samson, New York, N. Y. Medicinal sulfonic acids and their salts. No. 125,096; Apr. 8; v. 261; p. 407.
- Rosenblum, Samuel, Brooklyn, N. Y. Dried, fresh, and canned fruits and vegetables. No. 124,881; Mar. 18; v. 260; p. 557.
- Rosenson, David, Brooklyn, N. Y. Paints, japans, colors, putty, &c. No. 126,201; July 29; v. 264; p. 861.
- Rosenstein, Jacob, New York, N. Y. Wheat-flour. No. 125,676; June 3; v. 263; p. 163.
- Rosenstein, Jacob, New York, N. Y. Wheat-flour. \*No. 127,296; Nov. 4; v. 268; p. 188.
- Rosenstroch, Samuel, New York, N. Y. Trunks, traveling-bags, valises. No. 126,573; Sept. 16; v. 266; p. 447.
- Rosenthal, Charles, New York, N. Y. Garment-bag. No. 126,961; Oct. 14; v. 267; p. 336.
- Rosenthal & Goldberg, New York, N. Y. Men's and boys' suits and outer clothing. No. 128,164; Dec. 23; v. 269; p. 700.
- Rosin & Co., Philadelphia, Pa. Glue. No. 126,070; July 22; v. 264; p. 698.
- Ross-Gould List & Letter Company, St. Louis, Mo. Mailing-lists, facsimile letters, &c. No. 125,097; Apr. 8; v. 261; p. 407.
- Ross, John, Glasgow, Scotland. Woolen piece goods. No. 126,071; July 22; v. 264; p. 699.
- Rossendale-Reddaway Belting & Hose Co., The, Newark, N. J. Belting. Nos. 126,574-6; Sept. 16; v. 266; p. 447.
- Rossia, George N., New York, N. Y. Medicine compound for the treatment of certain named ailments. No. 125,098; Apr. 8; v. 261; p. 407.
- Rotary Scraper Company, Inc., New York, N. Y. Rotary scrapers for ships' hulls, drills, and parts thereof. No. 124,992; Apr. 1; v. 261; p. 198.
- Rothacker Film Mfg. Co., Chicago, Ill. Motion-picture films. No. 125,759; June 10; v. 263; p. 328.
- Rothacker Film Mfg. Co., Chicago, Ill. Motion-picture films. No. 125,842; June 17; v. 263; p. 479.
- Ronsmaniere, Williams & Co., Boston, Mass. Certain named cotton fabrics. No. 126,577; Sept. 16; v. 266; p. 447.
- Rouss, Peter W., assignor to Charles Broadway Rouss, Inc., New York, N. Y. Work-shirts. No. 127,783; Dec. 2; v. 269; p. 187.
- Row & Davis, Engineers, Inc., New York, N. Y. Condensers, evaporators, and grease-extractors for feed-water heaters. No. 124,883; Mar. 18; v. 260; p. 557.
- Roy, Benjamin, New York, N. Y. Wood-polish in the nature of a furniture-polish. No. 127,126; Oct. 21; v. 267; p. 481.
- Royal Embroidery Works, Naday and Fleischer, New York, N. Y. Dress fabrics. Nos. 124,473-4; Feb. 18; v. 259; p. 572.
- Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Textile fabric, woven or knitted, of silk, cotton, &c. No. 124,882; Mar. 18; v. 260; p. 557.
- Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Cotton, silk, and woolen piece goods and combinations thereof. No. 124,884; Mar. 18; v. 260; p. 557.
- Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Dress fabrics. No. 125,514; May 20; v. 262; p. 477.
- Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Artificial-silk fabrics. No. 126,763; Sept. 30; v. 266; p. 737.
- Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Silk fabrics. No. 127,494; Nov. 11; v. 268; p. 375.
- Royal Embroidery Works, Naday & Fleischer, New York, N. Y. Silk fabrics. No. 127,873; Dec. 9; v. 269; p. 389.
- Royal Worcester Corset Co., Worcester, Mass. Corsets. No. 126,895; Oct. 7; v. 267; p. 179.
- Rubino, Anthony, New York, N. Y. Olive-oil. No. 125,883; June 24; v. 263; p. 631.
- Rudominer, Morris, Newark, N. J. Headache remedy. No. 127,674; Nov. 18; v. 268; p. 560.
- Rueckheim Bros. & Eckstein, Chicago, Ill. Candy, chocolate, bonbons, and popcorn confections. No. 124,412; Feb. 11; v. 259; p. 380.
- Ruff, Adolph, New York, N. Y. Women's and misses' dress-skirts. No. 125,913; July 8; v. 264; p. 349.
- Rugo Brite Co., Ottawa, Ohio. Compound for cleansing rugs and carpets. No. 127,338; Nov. 11; v. 268; p. 370.
- Russell, Burdall & Ward Bolt & Nut Co., Port Chester, N. Y. Bolts, nuts, rivets, metal washers. No. 126,202; July 29; v. 264; p. 861.
- Russell Grader Manufacturing Company, Minneapolis, Minn. Road-grading machines. No. 127,874; Dec. 9; v. 269; p. 389.
- Russell Jobbers Mills, Oklahoma, Okla. Peanut-butter, vinegar, prepared mustard, rice, &c. No. 127,875; Dec. 9; v. 269; p. 389.
- Russell Manufacturing Co., The, Middletown, Conn. Woven fan-belts. No. 124,341; Feb. 4; v. 259; p. 179.
- Russell Mfg. Co., Middletown, Conn. Woven machinery-belts. No. 125,363; May 13; v. 262; p. 310.
- Russell Mfg. Co., Middletown, Conn. Woven belts for military equipment. No. 127,676; Nov. 18; v. 268; p. 560.
- Russel Motor Axle Company, North Detroit, Mich. Drive-axles. No. 127,675; Nov. 18; v. 268; p. 560.
- Russo, A., Chicago, Ill. Olive-oil. No. 126,072; July 22; v. 264; p. 699.
- Rutherford Co. Creamery Assn., Murfreesboro, Tenn. Creamery-butter. No. 126,474; Aug. 26; v. 265; p. 630.
- S. Fisher & Co., Inc., Hoboken, N. J. Chocolate candy. No. 124,705; Mar. 11; v. 260; p. 386.
- S. Karpen & Bros., Chicago, Ill. Certain named furniture. No. 126,299; Aug. 19; v. 265; p. 453.
- S. Pfeiffer Manufacturing Co., St. Louis, Mo. Medicinal preparation for diseases and disorders of the kidneys and liver. No. 126,952; Oct. 14; v. 267; p. 336.
- S. Wander & Sons Chemical Co., Inc., Albany, N. Y. Caustic soda, granulated lye, chlorinated lime. No. 124,622; Feb. 25; v. 259; p. 774.
- S. D. Warren Company, Boston, Mass. Printing-paper. Nos. 125,374-5; May 13; v. 262; p. 310.
- S. D. Warren Company, Boston, Mass. Printing-paper. No. 125,548; May 20; v. 262; p. 478.
- S. D. Warren Company, Boston, Mass. Printing-paper. Nos. 125,921-2; July 8; v. 264; p. 350.
- S. D. Warren Company, Boston, Mass. Printing-paper. No. 126,105; July 22; v. 264; p. 700.
- S. H. Grinstead Co. Inc., Lebanon, Ky. Dressed poultry. No. 124,845; Mar. 18; v. 260; p. 556.
- S. H. Reynolds' Sons Company, Boston, Mass. Dental appliances. No. 126,959; Oct. 14; v. 267; p. 336.
- S. J. Brouwer Shoe Co., Milwaukee, Wis. Leather shoes. No. 127,264; Nov. 4; v. 268; p. 187.
- S. S. Kresge Company, Detroit, Mich. Vanishing, cold, menthol, and peroxid creams. No. 125,230; Apr. 22; v. 261; p. 796.
- S. S. Kresge Co., Detroit, Mich. Certain named paper and stationery. No. 125,231; Apr. 22; v. 261; p. 796.
- S. S. Kresge Company, Detroit, Mich. Laundry soap. No. 127,194; Oct. 21; v. 267; p. 483.
- S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chairs. No. 124,945; Mar. 25; v. 729.
- Saberton Mfg. Co., Tampa, Fla. Soaps, scouring and cleaning compounds. No. 124,763; Mar. 11; v. 260; p. 388.
- Saberton Mfg. Co., Tampa, Fla. Soaps and scouring and cleaning compounds. No. 124,885; Mar. 18; v. 260; p. 557.
- Sackman Brothers Company, New York, N. Y. Children's certain named clothing. No. 124,764; Mar. 11; v. 260; p. 388.
- Sackman Brothers Company, New York, N. Y. Children's clothing. No. 128,225; Dec. 30; v. 269; p. 881.



- Safety Poison Label Co., The, West New York, N. J. Labels containing no printed matter for receptacles containing poison. No. 124,152; Jan. 14; v. 258; p. 445.
- Sainberg Louis, New York, N. Y. Card-index, receipt, law-blank, and letter cabinets, card-index trays. No. 125,175; Apr. 15; v. 261; p. 626.
- Saks & Company, New York, N. Y. Men's outer wearing-apparel. No. 125,843; June 17; v. 263; p. 479.
- Saleme, Frank P., Juniata, Pa. Preparation for sore throat, tonsillitis, catarrh, &c. No. 126,073; July 22; v. 264; p. 699.
- Salina Canning & Packing Co., San Jose, Calif. Solid-pack canned tomatoes. No. 128,262; Dec. 30; v. 269; p. 882.
- Salsina Canning & Packing Co., San Jose, Calif. Tomato pulp. No. 126,074; July 22; v. 264; p. 699.
- Samstag & Hilder Bros., New York, N. Y. Dress-shields. No. 125,914; July 8; v. 264; p. 349.
- Samstag & Hilder Bros., New York, N. Y. Hair-pins. No. 126,203; July 29; v. 264; p. 861.
- Samstag & Hilder Bros., New York, N. Y. Pearl buttons. No. 126,343; Aug. 19; v. 265; p. 454.
- Samuel Cabot, Incorporated, Boston, Mass. Fireproof paints. No. 124,370; Feb. 11; v. 259; p. 379.
- Samuel Stores, Inc., The, New York, N. Y. Men's outer apparel. No. 124,266; Jan. 28; v. 258; p. 810.
- Samuel Stores, Inc., The, New York, N. Y. Ladies' outer apparel. No. 125,847; June 17; v. 263; p. 479.
- San Antonio Drug Co., San Antonio, Tex., and New York, N. Y. Cold-cream, pomade, hair-dressing, &c. No. 126,204; July 29; v. 264; p. 861.
- San Antonio Drug Co., San Antonio, Tex., and New York, N. Y. Liniments, cordial, &c. No. 127,127; Oct. 21; v. 267; p. 481.
- San Fernando Canning Co., San Fernando, Calif. Canned tomatoes, peaches, and apricots. No. 125,169; Apr. 15; v. 261; p. 626.
- San Fernando Canning Co., San Fernando, Calif. Canned apricots and peaches. Nos. 125,170-1; Apr. 15; v. 261; p. 626.
- San Fernando Canning Co., San Fernando, Calif. Canned peaches, apricots, and tomatoes. No. 125,172; Apr. 15; v. 261; p. 626.
- San Fernando Canning Co., San Fernando, Calif. Canned tomato paste. No. 125,173; Apr. 15; v. 261; p. 626.
- San Fernando Canning Co., San Fernando, Calif. Canned tomatoes with purée from trimmings, canned peaches and apricots. No. 125,174; Apr. 15; v. 261; p. 626.
- San Fernando Canning Co., San Fernando, Calif. Canned peaches and apricots. Nos. 125,583-4; May 27; v. 262; p. 644.
- Sanativo Co., The, Gloucester City, N. J. Germicidal solution for the teeth, mouth, nose, and throat. No. 127,677; Nov. 18; v. 268; p. 560.
- Sanborn, Mary E., New York, N. Y. Ladies' and children's dresses, hats, skirts, coats. No. 125,309; May 6; v. 262; p. 165.
- Sanifect Co., The, Newark, N. J. Deodorizer and disinfectant. No. 126,772; Sept. 30; v. 266; p. 737.
- Sanitary Knitting Company, Grand Rapids, Mich. Knit underwear. No. 126,075; July 22; v. 264; p. 699.
- Sanitary Specialties Co., Philadelphia, Pa. Medicine-cabinets, bath-room chairs, stools, mirrors, commodes. No. 127,128; Oct. 21; v. 267; p. 481.
- Sano Milling and Manufacturing Co., Belleville, Ill. Flour-milling machinery. No. 126,773; Sept. 30; v. 266; p. 737.
- Santa Cruz Canning Corporation, San Francisco and Santa Cruz, Calif. Canned sardines, peaches, tomatoes with purée from trimmings. No. 127,678; Nov. 18; v. 268; p. 560.
- Santiago Orange Growers Ass'n, Orange, Calif. Fresh oranges. No. 128,263; Dec. 30; v. 269; p. 882.
- Saunders, William P., Birmingham, Ala. Preparations for treatment of the hair and scalp. No. 126,897; Oct. 7; v. 267; p. 179.
- Saunders, William P., Birmingham, Ala. Tonic. No. 127,129; Oct. 21; v. 267; p. 481.
- Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet-paper. No. 124,342; Feb. 4; v. 259; p. 179.
- Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet-paper. Nos. 124,413-15; Feb. 11; v. 259; p. 380.
- Sauquoit Toilet Paper Co., Inc., New Hartford, N. Y. Toilet-paper. No. 124,765; Mar. 11; v. 260; p. 388.
- Savings Check Company, Incorporated, The, Pittsburgh, Pa. Metal savings-checks. No. 124,993; Apr. 1; v. 261; p. 198.
- Sawyer Belting Company, Boston, Mass. Canvas belting. No. 128,165; Dec. 23; v. 269; p. 700.
- Sawyer & Day, Inc., Boston, Mass. Fresh onions. No. 125,585; May 27; v. 262; p. 644.
- "Scandinavian" Belting Ltd., London, England. Brake-lining. No. 127,247; Oct. 28; v. 267; p. 644.
- Schaeffer and Budenberg Mfg. Co., Brooklyn, N. Y. Dial-thermometers. No. 126,205; July 29; v. 264; p. 861.
- Schaeffer and Budenberg Mfg. Co., Brooklyn, N. Y. Gage-glasses. No. 126,206; July 29; v. 264; p. 861.
- Schafer & Co., Geo. H., Fort Madison, Iowa. Cream for shaving and massaging. No. 124,416; Feb. 11; v. 259; p. 380.
- Schaffer Engineering & Equipment Co., The, Tiffin, Ohio. Material-handling machinery for receiving hoppers, chutes, ducts, &c. No. 127,495; Nov. 11; v. 268; p. 375.
- Schalck, Wm. C., New York, N. Y. Vaginal suppositories. No. 124,586; Feb. 25; v. 259; p. 773.
- Schambler, Augustin F., Manchester, N. H. Cough-syrup. No. 126,344; Aug. 19; v. 265; p. 454.
- Schein Brothers, New York, N. Y. Snap-fasteners. No. 125,176; Apr. 15; v. 261; p. 626.
- Schering & Glatz, Inc., New York, N. Y. Medicine: phenyl-cinchonic acid. No. 126,774; Sept. 30; v. 266; p. 737.
- Schisler Brothers, St. Louis, Mo. Patch kits for automobile-tires. No. 126,207; July 29; v. 264; p. 861.
- Schlesinger, Maurice F., New York, N. Y. Medical jelly for the nose. No. 126,076; July 22; v. 264; p. 699.
- Schlesinger, Maurice F., New York, N. Y. Remedy for constipation, &c. No. 127,248; Oct. 28; v. 267; p. 644.
- Schmoll Fils & Co., New York, N. Y. Shoes of leather and rubber. No. 128,166; Dec. 23; v. 269; p. 700.
- Schoebel, Hermann W., Aberdeen, Wash. Eyeglasses. No. 125,844; June 17; v. 263; p. 479.
- Schofield Oil Co., Inc., New York, N. Y. Lubricating-oils. No. 125,760; June 10; v. 263; p. 328.
- Schofield Oil Co., The, New York, N. Y. Lubricating-oils. Nos. 126,475-6; Aug. 26; v. 265; p. 630.
- Schofield Oil Co., Inc., New York, N. Y. Lubricating-oils. No. 126,775; Sept. 30; v. 266; p. 737.
- Scholberg, Charles C., Ortonville, Minn. Preparation for dandruff and for scalp treatment. No. 126,776; Sept. 30; v. 266; p. 738.
- Schramm, William P., New York, N. Y. Men's collars, cuffs, shirts, &c. No. 127,496; Nov. 11; v. 268; p. 375.
- Schrock, Otto E., Cleveland, Ohio. Hair-tonic, nail and cuticle lotion, &c. No. 126,477; Aug. 26; v. 265; p. 630.
- Schueneman, Emil J., Philadelphia, Pa. Candy, and more particularly chocolates and bonbons. No. 125,884; June 24; v. 263; p. 631.
- Schuster Company, The, Cleveland, Ohio. Non-alcoholic non-cereal beverage and syrup for making same. No. 127,249; Oct. 28; v. 267; p. 644.
- Schuykill Silk Mills, (now by change of name Vanity Fair Silk Mills), Reading, Pa. Garment. No. 127,784; Dec. 2; v. 269; p. 187.
- Schwab, Samuel, New York, N. Y. Suits for infants and children. No. 127,498; Nov. 11; v. 268; p. 375.
- Schwarzenbach-Huber Company, New York, N. Y. Cotton goods in the piece, ginghams, shirtings, dress goods. No. 124,343; Feb. 4; v. 259; p. 179.
- Schwarzenbach-Huber Company, New York, N. Y. Silk, woolen, and cotton piece goods, &c. No. 127,499; Nov. 11; v. 268; p. 375.
- Schweppe & Wilt Manufacturing Company, The, Detroit, Mich. Automobile reach-rods, radius-rods, &c. No. 127,500; Nov. 11; v. 268; p. 375.
- Schweyer, John L., Chicago, Ill. Worsted yarns. No. 127,130; Oct. 21; v. 267; p. 481.
- Scott, Lester E., Southington, Conn. Cleansing compound. No. 128,167; Dec. 23; v. 269; p. 700.
- Scott, Louis H., Oklahoma, Okla. Tire-patch. No. 125,678; June 3; v. 263; p. 163.
- Scott Paper Company, Chester, Pa. Surgical dressing. No. 126,962; Oct. 14; v. 267; p. 336.
- Scott, Wilhelm M., Kansas City, Mo. Ready-mixed paints. No. 125,845; June 17; v. 263; p. 479.
- Scully, Cornelius A., Leominster, Mass. Liquid polish for furniture, automobiles, &c. No. 125,916; July 8; v. 264; p. 349.
- Seaboard Commercial Co., Seattle, Wash. Canned salmon. No. 127,876; Dec. 9; v. 269; p. 389.
- Seacoast Food Products Co., Asbury Park, N. J. Canned clam-juce. No. 124,587; Feb. 25; v. 259; p. 773.
- Seader, Morris, Brooklyn, N. Y. Hair-tonics. No. 127,682; Nov. 18; v. 268; p. 560.
- Sealer Distributing Company, Chicago, Ill. Chemical preparation for purifying gasoline and increasing its efficiency. No. 125,516; May 20; v. 262; p. 477.
- Sealwood Company, St. Louis, Mo. Varnish and varnish-reducer. No. 124,766; v. 260; p. 388.
- Sears, Roebuck and Co., Chicago, Ill. Men's ready-to-wear clothes. No. 125,099; Apr. 8; v. 261; p. 407.
- Seattle Grain Company, Seattle, Wash. Self-rising flour. No. 126,898; Oct. 7; v. 267; p. 179.
- Security Sewing Machine Company, Minneapolis, Minn. Sewing-machines. No. 127,502; Nov. 11; v. 268; p. 375.
- See, Joseph E., New York, N. Y. Marmalades. No. 127,503; Nov. 11; v. 268; p. 375.
- Seerle Chemical Co., Irwin, Pa. Liquid for keeping wind-shields, &c., transparent. No. 128,264; Dec. 30; v. 269; p. 882.
- Segal Brothers, Philadelphia, Pa. Men's union-suits. No. 124,263; Jan. 28; v. 258; p. 810.
- Seng Company, The, Chicago, Ill. Metal fixtures. No. 124,588; Feb. 25; v. 259; p. 773.
- Sengenberger, Nellie F., Peoria, Ill. Liquid cleansing compound. No. 127,877; Dec. 9; v. 269; p. 389.
- Selb, Frank L., Philadelphia, Pa. Ointment for rheumatism, bronchitis, &c. No. 126,208; July 29; v. 264; p. 861.



## Alphabetical list of registrants of trade-marks—Continued.

- Seneca Falls Mfg. Co. Inc., Seneca Falls, N. Y. Lathes and parts thereof. No. 126,209; July 29; v. 264; p. 861.
- Sessions, Frank L., Lakewood, Ohio. Flexible knitting-needles for hand use. No. 124,767; Mar. 11; v. 260; p. 388.
- Severson, Almerion F., Susquehanna, Pa. Preparation for treating chapped hands and lips, cold-sores, cuts, corns, &c. No. 126,899; Oct. 7; v. 267; p. 179.
- Sexton Manufacturing Co., Fairfield, Ill. Underwear and nightwear. No. 127,131; Oct. 21; v. 267; p. 481.
- Shane Bros. & Wilson Co., Philadelphia and Melbourne, Pa. Rye and wheat flour blend. No. 124,589; Feb. 25; v. 259; p. 773.
- Shane Bros. & Wilson Co., Philadelphia and Millbourne, Pa., and Minneapolis, Minn. Wheat-flour. No. 124,768; Mar. 11; v. 260; p. 388.
- Shane Bros. & Wilson Co. Inc., Minneapolis, Minn. Wheat-flour. No. 126,210; July 29; v. 264; p. 861.
- Shapleigh Hardware Company, St. Louis, Mo. Ice-skates. No. 124,994; Apr. 1; v. 261; p. 198.
- Shapleigh Hardware Company, St. Louis, Mo. Certain named measuring and scientific appliances. No. 124,995; Apr. 1; v. 261; p. 198.
- Shapleigh Hardware Company, St. Louis, Mo. Clocks and watches. No. 125,517; May 20; v. 262; p. 477.
- Shapleigh Hardware Company, St. Louis, Mo. Certain named cutlery made wholly or in part of precious metal. No. 125,518; May 20; v. 262; p. 477.
- Shapleigh Hardware Company, St. Louis, Mo. Grind-stone-disks, oilstones, sandpaper, &c. No. 125,519; May 20; v. 262; p. 477.
- Shapleigh Hardware Company, St. Louis, Mo. Cutlery, tools, &c. No. 127,132; Oct. 21; v. 267; p. 481.
- Shappell, Charles H., Lima, Ohio. Petroleum products. No. 125,364; May 13; v. 262; p. 310.
- Sharaza, Max, New York, N. Y. Medicine for chronic constipation, &c. No. 126,900; Oct. 7; v. 267; p. 179.
- Shear Company, The, Waco, Tex. Roasted coffee. No. 124,769; Mar. 11; v. 260; p. 388.
- Sheffield Farms Co. Inc., New York, N. Y. Evaporated and condensed milk. No. 126,478; Aug. 26; v. 265; p. 630.
- Sheffield Farms Co. Inc., New York, N. Y. Milk, cream, evaporated and condensed milk. No. 127,133; Oct. 21; v. 267; p. 481.
- Shepard Electric Crane & Hoist Co., Montour Falls, N. Y. Cranes and hoisting machinery. No. 127,785; Dec. 2; v. 269; p. 187.
- Shepard Norwell Company, Boston, Mass. Corsets. No. 124,770; Mar. 11; v. 260; p. 388.
- Sherer Gillett Co., Chicago, Ill. Display-counters. No. 124,886; Mar. 18; v. 260; p. 557.
- Sherer-Gillett Co., Chicago, Ill. Removable price and article tag holders to be secured to shelves. No. 126,211; July 29; v. 264; p. 861.
- Sherer Gillett Co., Chicago, Ill. Removable price and article tag holders. No. 127,987; Dec. 16; v. 269; p. 543.
- Sheridan & Dessaur, New York, N. Y. Cigars. No. 128,168; Dec. 23; v. 269; p. 700.
- Sheridan Investment Company, Sheridan, Oreg. Fresh apples. No. 126,079; July 22; v. 264; p. 699.
- Sherrod, W. Henry, Seattle, Wash. Automobile-head-light lenses. No. 126,607; Sept. 23; v. 266; p. 593.
- Sherwin Shapira Chemical Co., San Anselmo, Cal. Tooth-powder. No. 124,590; Feb. 25; v. 259; p. 773.
- Sherwood, Edward J., Mitchell, S. D. Wheat-flour. No. 124,475; Feb. 18; v. 259; p. 572.
- Shingle Agency of British Columbia, Vancouver, British Columbia, Canada. Shingles. No. 126,212; July 29; v. 264; p. 862.
- Shivers, Hopkins, Tacoma, Wash. Mixed pickle. No. 127,684; Nov. 18; v. 268; p. 560.
- Shlaes, William M., Chicago, Ill. Phonographs. No. 127,683; Nov. 18; v. 268; p. 560.
- Shober, Mary E., Rockville Center, N. Y. Cleaning and polishing powder for metal and glassware. No. 125,365; May 13; v. 262; p. 310.
- Shotwell Company, The, Los Angeles, Calif. Liquid cleaner for kid gloves and shoes. No. 127,505; Nov. 11; v. 268; p. 375.
- Shultz Belting Company, St. Louis, Mo. Belting and belt-lacings of leather, fabric, &c. No. 124,153; Jan. 14; v. 258; p. 445.
- Shurnuff Manufacturing Company, St. Louis, Mo. Manifolds for gas-engines. No. 125,250; Apr. 22; v. 261; p. 797.
- Shusta, Daniel, Cleveland, Ohio. Tonic or medicinal beverage for colds, debility, and measles. No. 126,213; July 29; v. 264; p. 862.
- Shutter-Johnson Candy Co., Chicago, Ill. Candles. No. 126,779; Sept. 30; v. 266; p. 738.
- Sidel-Rattner Manufacturing Company, Brooklyn, N. Y. Automobile-tire pumps. No. 126,081; July 22; v. 264; p. 699.
- Sidery, Harry, Lodi, Calif. Hair-tonic. No. 127,201; Oct. 21; v. 267; p. 484.
- Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 126,131; July 29; v. 264; p. 859.
- Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 126,578; Sept. 16; v. 266; p. 447.
- Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 126,813; Sept. 30; v. 266; p. 739.
- Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 127,334; Nov. 11; v. 268; p. 370.
- Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 127,902-3; Dec. 16; v. 269; p. 541.
- Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 128,010-15; Dec. 23; v. 269; p. 695.
- Siebert, Albert F., Dayton, Ohio. Spark-plugs. No. 126,479; Aug. 26; v. 265; p. 630.
- Sierra Chemical Company, Los Angeles, Calif. Water-softening compound. No. 126,480; Aug. 26; v. 265; p. 630.
- Sierra Chemical Company, Los Angeles, Calif. Water-softening compound. No. 127,506; Nov. 11; v. 268; p. 375.
- Silberman, Louis, Philadelphia, Pa. Sole-leathers. No. 127,507; Nov. 11; v. 268; p. 375.
- Silver & Co., New York and Brooklyn, N. Y. Food-preparing presses. No. 125,521; May 20; v. 262; p. 477.
- Silver Manufacturing Company, Salem, Ohio. Feed cutters and grinders, silo-fillers, &c. No. 126,608; Sept. 23; v. 266; p. 593.
- Silverstein Bros., New York, N. Y. Skirts, underskirts, and dresses. No. 126,481; Aug. 26; v. 265; p. 630.
- Simmons, George F., Peoria, Ill. Towels, table linen, covers, and napkins. No. 125,522; May 20; v. 262; p. 477.
- Simmons Hardware Company, St. Louis, Mo. Galvanized-iron baskets. No. 126,214; July 29; v. 264; p. 862.
- Simmons Hardware Company, St. Louis, Mo. Refrigerators. No. 126,346; Aug. 19; v. 265; p. 454.
- Simmons Hardware Company, St. Louis, Mo. Ice-cream freezers. No. 126,347; Aug. 19; v. 265; p. 454.
- Simmons Hardware Company, St. Louis, Mo. Lubricating-oil for guns, bicycles, type-writers, &c. No. 126,780; Sept. 30; v. 266; p. 738.
- Simmons Hardware Company, St. Louis, Mo. Lawn-mowers. No. 126,781; Sept. 30; v. 266; p. 738.
- Simmons Hardware Company, St. Louis, Mo. Wringers. Nos. 126,964-5; Oct. 14; v. 267; p. 336.
- Simmons Hardware Company, St. Louis, Mo. Tool-bags, tool-cases. No. 126,966; Oct. 14; v. 267; p. 336.
- Simmons Hardware Company, St. Louis, Mo. Dry batteries. No. 127,134; Oct. 21; v. 267; p. 481.
- Simmons Hardware Company, St. Louis, Mo. Fish-lines and minnow-seines. No. 127,135; Oct. 21; v. 267; p. 482.
- Simmons Hardware Company, St. Louis, Mo. Sewing-machines and attachments therefor. No. 127,136; Oct. 21; v. 267; p. 482.
- Simmons Hardware Company, St. Louis, Mo. Bicycles. No. 127,202; Oct. 21; v. 267; p. 484.
- Simmons Hardware Company, St. Louis, Mo. Horseshoe-nails. No. 127,508; Nov. 11; v. 268; p. 375.
- Simmons Hardware Company, St. Louis, Mo. Sewing-machines and attachments therefor. No. 127,509; Nov. 11; v. 268; p. 375.
- Simmons Hardware Company, St. Louis, Mo. Fishhooks. No. 127,510; Nov. 11; v. 268; p. 375.
- Simmons Hardware Company, St. Louis, Mo. Sewing-machines and attachments therefor. No. 127,511; Nov. 11; v. 268; p. 375.
- Simmons Hardware Company, St. Louis, Mo. Bicycles. No. 127,685; Nov. 18; v. 268; p. 560.
- Simmons Hardware Company, St. Louis, Mo. Rat and mouse traps. No. 127,686; Nov. 18; v. 268; p. 560.
- Simmons Hardware Company, St. Louis, Mo. Skates. No. 127,786; Dec. 2; v. 269; p. 187.
- Simmons Hardware Company, St. Louis, Mo. Shovels, spades, scoops. Nos. 127,988-9; Dec. 16; v. 269; p. 543.
- Simmons Hardware Company, St. Louis, Mo. Rubber and canvas bicycle-tires and inner tubes. No. 128,169; Dec. 23; v. 269; p. 700.
- Simmons Hardware Company, St. Louis, Mo. Rubber garden-hose. No. 128,170; Dec. 23; v. 269; p. 700.
- Simmons, J. M., Denver, Colo. Maple-syrup, canned tomatoes, coffee, &c. No. 127,512; Nov. 11; v. 268; p. 375.
- Simmons Manufacturing Company, The, Cleveland, Ohio. Device to prevent rattling of the steering-rods of automobiles. No. 126,609; Sept. 23; v. 266; p. 593.
- Simmons & McCrary, High Point, N. C. Cigars. No. 128,171; Dec. 23; v. 269; p. 700.
- Simmons & Norris, Cincinnati, Ohio. Poultry and stock feeds. No. 125,366; May 13; v. 262; p. 310.
- Simon Ascher & Co., Inc., New York, N. Y. Knitted sweaters, leggings, caps, &c. No. 124,657; Mar. 11; v. 260; p. 385.
- Simon & Mendelsohn, New York, N. Y. Bloomers. No. 128,172; Dec. 23; v. 269; p. 700.
- Simon & Mendelsohn, New York, N. Y. Bloomer and petticoat combined. No. 128,173; Dec. 23; v. 269; p. 700.
- Simpkins, Charles S., Brooklyn, N. Y. Chemical for saving gasoline and eliminating carbon in automobiles, &c. No. 126,901; Oct. 7; v. 267; p. 179.



- Simpson Bros. Corporation, Boston, Mass. Artificial stone. No. 128,174; Dec. 23; v. 269; p. 700.
- Sims, Julia A., Canton, Miss. Hair and temple-hair grower and pressing-oil. No. 126,482; Aug. 26; v. 265; p. 630.
- Sinclair Refining Company, Chicago, Ill. Certain named oils for illuminating, burning, power, fuel, &c. No. 126,083; July 22; v. 264; p. 699.
- Sinclair Refining Company, Chicago, Ill. Certain named oils and greases. No. 126,348; Aug. 19; v. 265; p. 454.
- Sinclair Refining Company, Chicago, Ill. Oils and greases. No. 126,782; Sept. 30; v. 266; p. 738.
- Sindel, Stern & Co., Inc., New York, N. Y. Men's and boys' suits and overcoats. Nos. 126,905-6; Oct. 7; v. 267; p. 179.
- Singer, Joseph F., St. Louis, Mo. Anesthetic and hemostatic. No. 124,418; Feb. 11; v. 259; p. 381.
- Sip, Richd. G., Jersey City, N. J. Chemical iron-rust and stain-removing cream. No. 124,771; Mar. 11; v. 260; p. 388.
- Sire, Lillian R., New York and Fire Island Beach, N. Y. Dried and prepared sea-grass. No. 127,203; Oct. 21; v. 267; p. 484.
- Skinner, Paul F., Omaha, Nebr. Bacon and hams. No. 125,251; Apr. 22; v. 261; p. 797.
- Skintex Co., New York and Forest Hills, N. Y. Face-cream. No. 126,084; July 22; v. 264; p. 699.
- Slagle, Frank C., Phoenix, Ariz. Preparation for treatment of catarrh. No. 127,878; Dec. 9; v. 269; p. 389.
- Slavin, Cathrine M., Calgary, Alberta, Canada. Hair-grower. No. 125,252; Apr. 22; v. 261; p. 797.
- Slazenger, Frank L., New York, N. Y. Tennis-rackets. No. 125,679; June 3; v. 263; p. 163.
- Sleep-In-Peace Company, Savannah, Ga. Insecticides and poisons for rodents and insect pests. No. 126,085; July 22; v. 264; p. 699.
- Slocumb, Frank F., Wilmington, Del. Cabinets for talking-machine records. No. 125,586; May 27; v. 262; p. 644.
- Small, Ralph D., Chicago, Ill. Candy. No. 128,265; Dec. 30; v. 269; p. 832.
- Smith, Alfred A., South Braintree, Mass. Leather softening compound, dressing, and cleaning detergent. No. 124,772; Mar. 11; v. 260; p. 389.
- Smith, Alice, New York, N. Y. Book-markers. No. 127,789; Dec. 2; v. 269; p. 187.
- Smith, Charles E., Palestine, Tex. Hair-tonic. No. 127,790; Dec. 2; v. 269; p. 187.
- Smith, Dr. R. M., Manzanola, Colo. Foot-balm. No. 124,773; Mar. 11; v. 260; p. 389.
- Smith, Frederick K., New York, N. Y. Perfumes. No. 126,483; Aug. 26; v. 265; p. 630.
- Smith, Gordon, Mobile, Ala. Fruit cake. No. 124,591; Feb. 25; v. 259; p. 773.
- Smith, Gordon C., Los Angeles, Calif. Monthly magazine. No. 127,879; Dec. 9; v. 269; p. 389.
- Smith, Harry J., Utica, N. Y. Insecticides and fungicides. No. 126,783; Sept. 30; v. 266; p. 738.
- Smith, Kline & French Co., Philadelphia, Pa. Aspirin tablets. No. 126,617; Sept. 23; v. 266; p. 593.
- Smith, Le Roy M., Chicago, Ill. Periodical issued monthly. No. 124,892; Mar. 18; v. 260; p. 557.
- Smith, Le Roy M., Chicago, Ill. Annual publication. No. 127,137; Oct. 21; v. 267; p. 482.
- Smith McCord Townsend Dry Goods Co., Kansas City, Mo. Certain named knitted, netted, and textile fabrics. No. 124,592; Feb. 25; v. 259; p. 774.
- Smith & Nessel Co., New York, N. Y. Canned sardines. No. 124,207; Jan. 21; v. 258; p. 641.
- Smith & Nessel Co., Inc., New York, N. Y. Canned sardines. No. 128,175; Dec. 23; v. 269; p. 700.
- Smith's Inventions, Inc., Minneapolis, Minn. Churns and butter-mergers. No. 124,774; Mar. 11; v. 260; p. 389.
- Smith, Sam, Tonbridge, England. Composition of fatty substances used as a base for toilet cream. No. 125,942; July 15; v. 264; p. 531.
- Smolin, Nathaniel C., New York, N. Y. Women's and misses' hats. No. 127,513; Nov. 11; v. 268; p. 375.
- Smyser, J. Ward, Sterling, Kans. Condition-powder and tonic for sheep, horses, hogs, and goats. No. 124,419; Feb. 11; v. 259; p. 381.
- Snider, Mrs. Amanda C., Dallas, Tex. Preparation for tuberculosis, asthma, &c. No. 124,775; Mar. 11; v. 260; p. 389.
- Snows, Ltd., New York, N. Y. Textiles. No. 124,996; Apr. 1; v. 261; p. 198.
- Snyder Chaffee Co., The, Columbus, Ohio. Candy. No. 126,350; Aug. 19; v. 265; p. 454.
- Sobers, Addie E., Washington, D. C. Hair-dressing. No. 126,216; July 29; v. 264; p. 862.
- Societe Anonyme "La Bruyere," Paris and St. Claude, France. Tobacco-pipes. No. 126,784; Sept. 30; v. 266; p. 738.
- Societe Anonyme "La Bruyere," Paris and St. Claude, France. Tobacco-pipes. No. 127,138; Oct. 21; v. 267; p. 482.
- Société Chimique des Usines du Rhône Ancienement Gillard, P. Monnet et Cartier, Paris, France. Amino-benzol-acid alkalin esters and derivatives thereof for use as a local anesthetic. No. 124,420; Feb. 11; v. 259; p. 381.
- Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 126,086; July 22; v. 264; p. 699.
- Society of Chemical Industry in Basle, Basel, Switzerland. Indigo. No. 126,087; July 22; v. 264; p. 699.
- Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical product. No. 126,088; July 22; v. 264; p. 699.
- Sodium silicate. Philadelphia Quartz Company. No. 125,499; May 20; v. 262; p. 476.
- Soeffgen, Charles A., Chicago, Ill. Cartons. No. 125,523; May 20; v. 262; p. 477.
- Solar Textile Co., New York, N. Y. Cotton, wool, and cotton and wool mixed piece goods. No. 124,997; Apr. 1; v. 261; p. 198.
- Solo Shoe Co., New York, N. Y. Children's leather shoes. No. 127,139; Oct. 21; v. 267; p. 482.
- Solvell Co., Inc., The, New York, N. Y. Tone-controlling attachment for player-pianos. No. 125,524; May 20; v. 262; p. 477.
- Son Brothers & Co., San Francisco, Calif. Razors. No. 124,998; Apr. 1; v. 261; p. 198.
- Sonora Phonograph Corporation, New York, N. Y. Talking-machines, phonographs, gramophones, &c. Nos. 124,887-90; Mar. 18; v. 260; p. 557.
- Sonora Phonograph Corporation, New York, N. Y. Talking-machines, phonographs, gramophones, &c. No. 125,312; May 6; v. 262; p. 166.
- Sonora Phonograph Corporation, New York, N. Y. Talking-machine and phonograph cabinets. No. 125,680; June 3; v. 263; p. 163.
- Sonora Phonograph Corporation, New York, N. Y. Talking-machines, phonographs, &c. No. 127,687; Nov. 18; v. 268; p. 560.
- Sonora Phonograph Sales Company, Inc., New York, N. Y. Talking-machines, phonographs, gramophones, &c. No. 126,089; July 22; v. 264; p. 699.
- Southern California Fish Co., East San Pedro, Calif. Canned tuna fish and sardines. No. 125,525; May 20; v. 262; p. 477.
- Southern Cotton Oil Company, Jersey City and Bayonna, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Edible oil. Nos. 127,140-2; Oct. 21; v. 267; p. 482.
- Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Cotton-seed oil shortening compound. No. 127,143; Oct. 21; v. 267; p. 482.
- Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Edible oil. No. 127,204; Oct. 21; v. 267; p. 484.
- Southern Feed Company, Inc., Newport News, Va. Stock feeds. No. 126,484; Aug. 26; v. 265; p. 630.
- Southern Fruit Julep Co., Fort Worth, Tex. Certain named beverages, non-alcoholic. No. 124,891; Mar. 18; v. 260; p. 557.
- Southern Ruralist Co., Atlanta, Ga. Publication. No. 127,880; Dec. 9; v. 269; p. 389.
- Southern Sales Corporation, New York, N. Y. Wheat-flour. No. 127,297; Nov. 4; v. 268; p. 188.
- Southland Perfume Company, Jacksonville, Fla. Perfumes, toilet waters, face-powders, sachets. No. 125,526; May 20; v. 262; p. 477.
- Southwestern Milling Company, Inc., The, New York, N. Y., and Kansas City, Mo. Self-rising flour. No. 124,593; Feb. 25; v. 259; p. 774.
- Southwestern Milling Company, Inc., New York, N. Y., and Kansas City, Mo. Self-rising flour. No. 125,761; June 10; v. 263; p. 328.
- Spear, Alfred, Providence, R. I. Emblems and badges made wholly or in part of precious metal. No. 128,176; Dec. 23; v. 269; p. 700.
- Specialty Device Company, The, Cincinnati, Ohio. Shock-absorbers for vehicles. No. 127,514; Nov. 11; v. 268; p. 375.
- Sperling, George, New York, N. Y. Petticoats. No. 127,515; Nov. 11; v. 268; p. 375.
- Sperry Flour Company, San Francisco, Calif. Wheat-flour. No. 124,940; Mar. 25; v. 260; p. 729.
- Sperry Gyroscope Company, The, Brooklyn, N. Y. Electric search-lights, &c. No. 126,580; Sept. 16; v. 266; p. 447.
- Spiegel Bros., Inc., New York, N. Y. Leather, skins, and hides. No. 127,516; Nov. 11; v. 268; p. 375.
- Spiritine Chemical Co., Wilmington, N. C. Rubber filler and wood-preserving oil. No. 126,786; Sept. 30; v. 266; p. 738.
- Spiroicide Corporation, New York, N. Y. Antiseptic. No. 125,367; May 13; v. 262; p. 310.
- Splitdorf Electrical Company, Newark, N. J. Electrical switches, ignition-generators, spark-plugs. No. 126,581; Sept. 16; v. 266; p. 447.
- Spochr's, Chicago, Ill. Candy. No. 127,688; Nov. 18; v. 268; p. 560.
- Spot Inc., The, Norfolk, Va. Certain named clothing for ladies and men. No. 125,100; Apr. 8; v. 261; p. 407.
- Stability Motors Company, Philadelphia, Pa. Motor-trucks and trailers. No. 125,917; July 8; v. 264; p. 349.



*Alphabetical list of registrants of trade-marks—Continued.*

- Stamford Electric & Manufacturing Company, The, Stamford, Conn. Electric motors, generators, transformers, switches, &c. No. 124,776; Mar. 11; v. 260; p. 389.
- Stampede Company, The, St. Paul, Minn. Candy. No. 126,352; Aug. 19; v. 265; p. 454.
- Stampede Company, Limited, The, St. Paul, Minn. Candy. No. 127,689; Nov. 18; v. 268; p. 560.
- Standard Asphalt & Refining Co., Chicago, Ill. Water and vermin proof coatings for the wrappers of meats and other foods. No. 124,893; Mar. 18; v. 260; p. 557.
- Standard Bedding Co., The, Milwaukee, Wis. Mattresses and pillows. No. 126,485; Aug. 26; v. 265; p. 630.
- Standard Benefit Check Co., Wilmington, Del., and Pittsburgh, Pa. Coupon check-books. No. 124,156; Jan. 14; v. 258; p. 445.
- Standard Candy Company, Nashville, Tenn. Candy. No. 126,353; Aug. 19; v. 265; p. 454.
- Standard Chemical Co., Emeryville, Calif. Insecticides, fungicides, disinfectants. No. 127,881; Dec. 9; v. 269; p. 389.
- Standard Cooper-Bell Co., Chicago, Ill. Enamel and oil paints, varnish stains and removers, varnishes, floor-lacquers. No. 124,344; Feb. 4; v. 259; p. 179.
- Standard Cooper-Bell Co., Chicago, Ill. Enamel and oil paints, varnish-stains, &c. No. 124,777; Mar. 11; v. 260; p. 389.
- Standard Cooper-Bell Co., Chicago, Ill. Varnishes, paints, japans, paint-driers. No. 126,354; Aug. 19; v. 265; p. 454.
- Standard Oil Company, Bayonne, N. J. White mineral oil. No. 125,763; June 10; v. 263; p. 328.
- Standard Oil Company, Bayonne, N. J. White mineral oil for use by confectioners as a slab-oil. No. 126,217; July 29; v. 264; p. 862.
- Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating-oils. No. 128,177; Dec. 23; v. 269; p. 700.
- Standard Oil Company of New York, New York, N. Y. Glass lamp-chimneys. No. 124,421; Feb. 11; v. 259; p. 381.
- Standard Oil Company of New York, New York, N. Y. Refined oil for lighting, heating, and power purposes. No. 126,091; July 22; v. 264; p. 699.
- Standard Paint Company, The, Boundbrook, N. J., and New York, N. Y. Roofing accessories. No. 124,157; Jan. 14; v. 258; p. 445.
- Standard Paint Company, Boundbrook, N. J., and New York, N. Y. Prepared roofings. No. 125,846; June 17; v. 263; p. 479.
- Standard Paint Company, Boundbrook, N. J., and New York, N. Y. Water-proofed fabrics for roofing, flooring, &c. Nos. 126,218-19; July 29; v. 264; p. 862.
- Standard Paint Company, Boundbrook, N. J., and New York, N. Y. Composition roofings and building-papers. No. 126,355; Aug. 19; v. 265; p. 454.
- Standard Paper Company, Indianapolis, Ind. Paper bags. No. 126,220; July 29; v. 264; p. 862.
- Standard Parts Company, The, Cleveland, Ohio. Monthly newspaper. No. 125,313; May 6; v. 262; p. 166.
- Standard Parts Company, The, Cleveland, Ohio. Monthly magazine. No. 125,314; May 6; v. 262; p. 166.
- Standard Tobacco Company, Inc., New York, N. Y. Cigarettes. No. 126,486; Aug. 26; v. 265; p. 630.
- Stanley D. Subers Co., Philadelphia, Pa. Oil. No. 126,492; Aug. 26; v. 265; p. 630.
- Stanley Works, The, New Britain, Conn. Hinges, screen-hangers, hasps, &c. No. 126,967; Oct. 14; v. 267; p. 336.
- Stanwear Shoe Co., Chicago, Ill. Leather shoes for misses, children, and infants. No. 128,178; Dec. 23; v. 269; p. 700.
- Staples, Herbert F., Medford, Mass. Certain named paints and painters' materials. No. 124,345; Feb. 4; v. 259; p. 179.
- Star Company, New York, N. Y. Newspaper-section. No. 125,527; May 20; v. 262; p. 477.
- Star Company, New York, N. Y. Newspaper-section. No. 126,487; Aug. 26; v. 265; p. 630.
- Star Lubricating Oil Co., The, Cleveland, Ohio. Certain named paints, &c. No. 125,253; Apr. 22; v. 261; p. 797.
- Star Shirt Manufacturing Company, New York, N. Y. Men's cotton negligee shirts and men's cotton pajamas. No. 126,907; Oct. 7; v. 267; p. 179.
- Starr, Lowell, Danbury, Conn. Certain named abrasive, detergent, and polishing materials. No. 124,346; Feb. 4; v. 259; p. 179.
- Starr Piano Company, The, Richmond, Ind. Phonographs. No. 126,488; Aug. 26; v. 265; p. 630.
- Starr Piano Company, The, Richmond, Ind. Musical instruments and supplies. No. 126,968; Oct. 14; v. 267; p. 336.
- Startup, George E., London, England. Educational games. No. 127,144; Oct. 21; v. 267; p. 482.
- Staten Island Shipbuilding Company, New York, N. Y. Circulating-pumps, steering and steam engines. No. 127,250; Oct. 28; v. 267; p. 644.
- States Metals Company, New York, N. Y. Sulfuret of antimony and zinc oxid. No. 124,778; Mar. 11; v. 260; p. 389.
- Sté. Anne, Des Huileries Maurel & H. Prom & Maurel Frères, Bordeaux, France. Certain edible oils. No. 125,239; Apr. 22; v. 261; p. 796.
- Stearns & Co., Fredk., Detroit, Mich. Perfumes. No. 128,179; Dec. 23; v. 269; p. 700.
- Stearns Tire & Tube Company, St. Louis, Mo. Inner tubes for pneumatic tires. No. 125,918; July 8; v. 264; p. 350.
- Steele Packing Company, San Diego, Calif. Canned tomatoes. No. 125,681; June 3; v. 263; p. 163.
- Steele, Wm. E., Fairfax, Wash. Depilatory preparations. No. 125,315; May 6; v. 262; p. 166.
- Stein, Hall & Co., Chicago, Ill. Dextrinous product as a substitute in part for wheat or similar flours. No. 125,316; May 6; v. 262; p. 166.
- Stein, Samuel, Pittsburgh, Pa. Non-alcoholic beverages. No. 126,489; Aug. 26; v. 265; p. 630.
- Steiner & Grosse Mfg. Co., New York, N. Y. Surgical appliances. No. 126,969; Oct. 14; v. 267; p. 336.
- Steinert, Albert M., Providence, R. I. Pianos, player-pianos, and attachments thereto. No. 124,594; Feb. 25; v. 259; p. 774.
- Stentor Electric Manufacturing Co. Inc., New York, N. Y. Telephones and parts thereof. No. 124,347; Feb. 4; v. 259; p. 179.
- Stephens, Franklin, Atlantic City, N. J. Headache remedy. No. 126,356; Aug. 19; v. 265; p. 454.
- Sterling Phonograph Co., New York, N. Y. Talking-machines, parts thereof, needles, records, and mechanical motors for talking-machines. No. 124,208; Jan. 21; v. 258; p. 641.
- Sterling Remedy Company, Jersey City, N. J. Remedies for the tobacco habit. No. 125,254; Apr. 22; v. 261; p. 797.
- Stern Co., R. S., New York, N. Y. Women's hats. No. 124,265; Jan. 28; v. 258; p. 810.
- Stern & Riemer, New York, N. Y. Children's overalls. No. 126,092; July 22; v. 264; p. 699.
- Sternberg, Kurt R., Springfield, Mass. Paints, varnishes. No. 128,180; Dec. 23; v. 269; p. 700.
- Stetson-Barret Co., Los Angeles, Calif. Coffee. No. 125,528; May 20; v. 262; p. 477.
- Stetson, George W., Boston, Mass. Feed-water controllers for steam-boilers. No. 125,520; May 20; v. 262; p. 477.
- Stetson Shoe Company, Inc., Weymouth, Mass. Leather boots and shoes. No. 126,490; Aug. 26; v. 265; p. 630.
- Stevens, Abbie B., Atlanta, Ga. Dolls. No. 126,357; Aug. 19; v. 265; p. 454.
- Stevens, Seriah, Boston, Mass. Pharmaceutical preparations. No. 127,205; Oct. 21; v. 267; p. 484.
- Stevenson & Howell, Limited, London, England. Certain named foods and ingredients of foods. No. 125,530; May 20; v. 262; p. 477.
- Stevenson & Howell, Limited, London, England. Compounded natural oils for use in the manufacture of perfumes, &c. No. 125,587; May 27; v. 262; p. 644.
- Stewart Hartshorn Co., East Newark, N. J. Shade-cloth. No. 124,535; Feb. 25; v. 259; p. 772.
- Stewart Motor Corporation, Buffalo, N. Y. Motor-trucks and automobiles. No. 127,775; Dec. 2; v. 269; p. 187.
- Stickney & Poor Spice Co., Boston, Mass. Cream-of-tartar substitute. No. 124,941; Mar. 25; v. 260; p. 729.
- Stix, Baer & Fuller Dry Goods Co., St. Louis, Mo. Awnings. No. 125,368; May 13; v. 262; p. 310.
- Stoddard, Gilbert & Co., Inc., New Haven, Conn. Cigars. Nos. 126,359-61; Aug. 19; v. 265; p. 455.
- Stoddard, Gilbert & Co., Inc., New Haven, Conn. Coffee, peanut-butter, olives, &c. No. 126,790; Sept. 30; v. 266; p. 738.
- Stoddard, Gilbert & Co., Inc., New Haven, Conn. Candy. No. 126,909; Oct. 7; v. 267; p. 179.
- Stoddard, Gilbert & Co., Inc., New Haven, Conn. Cigars. No. 127,145; Oct. 21; v. 267; p. 482.
- Stokes, John S., Philadelphia, Pa. Printing plates and matrices, &c. No. 127,517; Nov. 11; v. 268; p. 375.
- Stone, John H., Providence, R. I. Imitation pearls. No. 124,779; Mar. 11; v. 260; p. 389.
- Stowell Coffee Co., The, Cincinnati, Ohio. Coffee. No. 125,848; June 17; v. 263; p. 479.
- Stratford Magnesia Springs Company, Wheeling, W. Va. Carbonated water. No. 124,942; Mar. 25; v. 260; p. 729.
- Straus Brothers Company, Ligonier, Ind. Publication. No. 126,491; Aug. 26; v. 265; p. 630.
- Strauss Bros. & Co., New York, N. Y. Mouth-harmonicas. Nos. 127,090-1; Nov. 18; v. 268; p. 560.
- Strong, Hewat & Co., Inc., North Adams, Mass., and New York, N. Y. Woolen piece goods. No. 124,595; Feb. 25; v. 259; p. 774.
- Strouse, Clarence B., Chicago, Ill., assignor to Electro-matic System Company. Automatic electric generating units, &c. No. 126,582; Sept. 16; v. 266; p. 447.
- Structural Slate Company, Pen Argyl, Pa. Structural slate. No. 127,993; Dec. 16; v. 269; p. 543.
- Stuttgart Rice Mill Company, Stuttgart, Ark. Rice. No. 128,181; Dec. 23; v. 269; p. 700.
- Success Cone Company, Inc., New York, N. Y. Ice-cream cones. No. 125,256; Apr. 22; v. 261; p. 797.
- Suckling & Sons, William, Birmingham, England. Certain named articles made of precious metal. No. 124,159; Jan. 14; v. 258; p. 446.



- Suckling & Sons, William, Birmingham, England. Certain named hardware and plumbing and steam-fitting supplies. No. 124,596; Feb. 25; v. 259; p. 774.
- Suckling & Sons, William, Birmingham, England. Certain named heating and lighting apparatus. No. 124,780; Mar. 11; v. 260; p. 389.
- Suckling & Sons, William, Birmingham, England. Certain named cutlery, machinery, &c. No. 124,781; Mar. 11; v. 260; p. 389.
- Suedmeyer, Louis, St. Louis, Mo. Tobacco-pipes. No. 127,146; Oct. 21; v. 267; p. 482.
- Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 124,597; Feb. 25; v. 259; p. 774.
- Suffern, Robert A., New York, N. Y. Cotton piece goods. Nos. 124,782-3; Mar. 11; v. 260; p. 389.
- Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 124,894; Mar. 18; v. 260; p. 557.
- Suffern, Robert A., New York, N. Y. Cotton piece goods. No. 124,999; Apr. 1; v. 261; p. 198.
- Suffern, Robert A., New York, N. Y. Cotton piece goods. Nos. 125,531-2; May 20; v. 262; p. 477.
- Sugar Products Company, New York, N. Y. Molasses. No. 125,764; June 10; v. 263; p. 328.
- Summers, Charles E., Toledo, Ohio. Healing deodorant antiseptic for dental and medicinal uses. No. 124,160; Jan. 14; v. 258; p. 446.
- Sun Company, Philadelphia, Pa. Lubricating and burning oils, paraffin, gasolene, &c. No. 124,943; Mar. 25; v. 260; p. 729.
- Sun Company, Philadelphia, Pa. Lubricating-oils. No. 127,882; Dec. 9; v. 269; p. 389.
- Sun Company, Philadelphia, Pa. Cutting and lubricating oils. No. 127,883; Dec. 9; v. 269; p. 389.
- Sun Company, Philadelphia, Pa. Lubricating-oils. Nos. 127,884-6; Dec. 9; v. 269; p. 389.
- Sun Company, Philadelphia, Pa. Lubricating-oils. No. 127,994; Dec. 16; v. 269; p. 543.
- Sun Company, Philadelphia, Pa. Cutting and lubricating oils. No. 128,182; Dec. 23; v. 269; p. 700.
- Sun Company, Philadelphia, Pa. Lubricating-oils. No. 128,183; Dec. 23; v. 269; p. 700.
- Sun Harbor Packing Corporation, San Diego, Calif. Canned sardines and canned tuna. No. 127,692; Nov. 18; v. 268; p. 560.
- Sunbeam Chemical Company, Chicago, Ill. Ammonium ichtho sulfonate. No. 126,791; Sept. 30; v. 266; p. 738.
- Sunbeam Products Co., Milwaukee, Wis. Egg substitute. No. 125,369; May 13; v. 262; p. 310.
- Sunde & D'Evers Co., Seattle, Wash. Canvas and duck in the piece. No. 125,533; May 20; v. 262; p. 477.
- Sundstrom, Robert, Inglewood, Calif. Leather-dressing. No. 128,266; Dec. 30; v. 269; p. 882.
- Sunical Packing Company, Oroville, Calif. Certain named foods. Nos. 128,267-8; Dec. 30; v. 269; p. 882.
- Sunical Packing Company, Oroville, Calif. Canned and dried fruits and vegetables, olives, &c. No. 128,269; Dec. 30; v. 269; p. 882.
- Sunnybrook Company, Portland, Oreg. Feed for dairy-cows. No. 124,161; Jan. 14; v. 258; p. 446.
- Sunset Packing Company, New York, N. Y., and West Pembroke, Me. Canned sardines in oil. No. 124,895; Mar. 18; v. 260; p. 557.
- Sunshine Cloak & Suit Company, Cleveland, Ohio. Children's dresses, coats, and suits. No. 126,093; July 22; v. 264; p. 699.
- Superior Corundum Wheel Company, Waltham, Mass. Grinding and polishing wheels. Nos. 124,598-9; Feb. 25; v. 259; p. 774.
- Superior Lamp Mfg. Co., New York, N. Y. Electric lamps. No. 127,792; Dec. 2; v. 269; p. 187.
- Surdacki, Walter, Depew, N. Y. Shoe-polish. No. 124,784; Mar. 11; v. 260; p. 389.
- Sussfield, Lorsch & Co., New York, N. Y. Chemical lumino compounds containing radium. No. 124,162; Jan. 14; v. 258; p. 446.
- Sutton, Le Roy M., Du Bois, Pa. Liquid preparation for closing holes in pneumatic tires. No. 125,101; Apr. 8; v. 261; p. 407.
- Swan & Finch Co., New York, N. Y. Transmission and gear case grease. No. 128,184; Dec. 23; v. 269; p. 700.
- Swartz Electric Company, Indianapolis, Ind. Electric power and light systems. No. 126,221; July 29; v. 264; p. 862.
- Swat Sweat Remedy Co., Kansas City, Mo. Preparations for offensive feet. No. 125,102; Apr. 8; v. 261; p. 407.
- Swedish Iron & Steel Corporation, New York, N. Y. Iron and steel. No. 124,348; Feb. 4; v. 259; p. 179.
- Sweeto Motor Products Company, St. Louis, Mo. Chemical dirt-solvents used as carbon-removers. No. 124,600; Feb. 25; v. 259; p. 774.
- Swift and Company, Chicago, Ill. Hams, bacon, shoulders. No. 125,534; May 20; v. 262; p. 477.
- Syracuse Milling Company, Syracuse, N. Y. Stock food. No. 125,885; June 24; v. 263; p. 631.
- Syracuse Smelting Works, Brooklyn, N. Y. Babbitt alloy. No. 125,255; Apr. 22; v. 261; p. 797.
- T. Noonan & Sons Company, Boston, Mass. Camphor-cream. No. 126,883; Oct. 7; v. 267; p. 179.
- T. H. Cochrane Co., Portage, Wis. Field and garden seeds. No. 127,589; Nov. 18; v. 268; p. 557.
- T. H. Cochrane Co., Portage, Wis. Alfalfa-seed. No. 127,590; Nov. 18; v. 268; p. 557.
- T. H. Cochrane Co., Portage, Wis. Field and garden seeds. Nos. 127,591-2; Nov. 18; v. 268; p. 557.
- Tab-A-Nola Phonograph Company, The, Reading, Pa. Phonographs. No. 127,147; Oct. 21; v. 267; p. 482.
- Taft, R. Clair, Chicago, Ill. Ribbon pieces made of silk and cotton and silk. No. 125,535; May 20; v. 262; p. 477.
- Tallerdar Medicine Co., Belvidere, Ill. Non-alcoholic maltless beverage. No. 126,222; July 29; v. 264; p. 862.
- Tamal Packing Co., San Francisco, Calif. Canned vegetables. No. 125,001; Apr. 1; v. 261; p. 198.
- Tamal Packing Co., San Francisco, Calif. Canned vegetables. No. 125,536; May 20; v. 262; p. 477.
- Tanenhaus and Olan, New York, N. Y. Piece goods composed of certain named materials. No. 124,601; Feb. 25; v. 259; p. 774.
- Tann, James H., Dayton, Ohio. Medicinal preparation for disorders of stomach and bowels. No. 126,094; July 22; v. 264; p. 699.
- Taplex Corporation, New York, N. Y. Dry fuel containing charcoal as a base. No. 126,095; July 22; v. 264; p. 699.
- Taplex Corporation, New York, N. Y. Bed, body, foot, and food warmers. No. 126,583; Sept. 16; v. 266; p. 447.
- Tapo Citrus Ass'n, Santa Susana, Calif. Fresh citrus fruits. No. 127,887; Dec. 9; v. 269; p. 389.
- Taunton Rubber Co. Inc., Taunton, Mass. Rubber heels. No. 124,785; Mar. 11; v. 260; p. 389.
- Taylor, James H., Baltimore, Md. Asbestos and rubber packing for piston-rods, &c. No. 125,537; May 20; v. 262; p. 477.
- Taylor, Raymond E., Portland, Oreg. Preparation for coughs, colds, bronchitis, &c. No. 127,793; Dec. 2; v. 269; p. 187.
- Taylor-Wharton Iron and Steel Co., High Bridge, N. J. Manganese steel and manganese steel in cast, forged, and rolled form. No. 125,257; Apr. 22; v. 261; p. 797.
- Taylor, William, Hampton Hill, England. Antiseptic and healing balm. No. 125,765; June 10; v. 263; p. 328.
- Technical Publishing Company, Chicago, Ill. Semimonthly publications. No. 125,103; Apr. 8; v. 261; p. 407.
- Tegufilm Chemical Mfg. Co. Inc., Syracuse, N. Y. Boiler compound. No. 124,422; Feb. 11; v. 259; p. 381.
- Teitelbaum, Leo, Chicago, Ill. Raw and dressed furskins. No. 124,349; Feb. 4; v. 259; p. 179.
- Temperance Beverage Co., Chicago, Ill. Non-intoxicating beverage. No. 127,888; Dec. 9; v. 269; p. 389.
- Templeton, Walter B., Chicago, Ill. Blank forms designed to contain office, shop, and other records. No. 125,919; July 8; v. 264; p. 350.
- Terwilliger, Alexander C., Titusville, Fla. Fresh oranges. No. 125,588; May 27; v. 262; p. 644.
- Texas Company, The, Houston, Tex. Certain named oils and greases. No. 124,602; Feb. 25; v. 259; p. 774.
- Texas Company, The, Houston, Tex., and New York, N. Y. Magazine published monthly. No. 124,896; Mar. 18; v. 260; p. 557.
- Texas Company, The, Houston, Tex., and New York, N. Y. Petrolatum and petroleum jelly. No. 127,148; Oct. 21; v. 267; p. 482.
- Texas Company, The, Houston, Tex., and New York, N. Y. Petroleum products. No. 127,518; Nov. 11; v. 268; p. 375.
- Texas Company, Houston, Tex., and New York, N. Y. Lubricating-oil. No. 127,519; Nov. 11; v. 268; p. 375.
- Texas Company, Houston, Tex., and New York, N. Y. Petroleum products—viz., lubricating-oils. Nos. 128,185-6; Dec. 23; v. 269; p. 700.
- Texas Company, Houston, Tex., and New York, N. Y. Felt roofing and roofing-cements. No. 128,189; Dec. 23; v. 269; p. 700.
- Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Gasolene, naphtha, benzine. No. 125,258; v. 261; p. 797.
- Texas Star Flour Mills, Galveston, Tex. Wheat-flour. No. 125,538; May 20; v. 262; p. 478.
- Thalheimer Brothers, New York, N. Y. Certain named buttons for outer clothing. No. 124,786; Mar. 11; v. 260; p. 389.
- Thames Paper Company, Ltd., Purfleet, England. Card-board. No. 125,539; May 20; v. 262; p. 478.
- Theo. H. Gary Co., New York, N. Y. Lubricating oil and greases. No. 127,401; Nov. 11; v. 268; p. 372.
- Thermalene Company, The, Chicago Heights, Ill. Gas-generators and generator-cartridges. No. 125,682; June 3; v. 263; p. 163.
- Thermokept Products Corporation, New York, N. Y. Containers for food products—viz., tin cans. No. 124,485; Feb. 18; v. 259; p. 572.
- Thermokept Products Corporation, New York, N. Y. Tea, coffee, dried vegetables, cheese, &c. No. 125,920; July 8; v. 264; p. 350.
- Therrien, Joseph, Rumford, Me. Liniment. No. 126,498; Aug. 26; v. 265; p. 630.



## Alphabetical list of registrants of trade-marks—Continued.

- Thiele & Baker Manufacturing Company, The, Marion, Ohio, assignor to Brooke Anderson, Chicago, Ill. Metal fence-posts and fences. No. 125,589; May 27; v. 262; p. 644.
- Thlinket Packing Company, Portland, Oreg., and Funter Bay, Alaska. Canned salmon. No. 124,486; Feb. 18; v. 259; p. 572.
- Thomas A. Edison, Incorporated, West Orange, N. J. Monthly periodicals. No. 124,444; Feb. 18; v. 259; p. 571.
- Thomas A. Edison, Incorporated, West Orange, N. J. Blank or forms upon which to inscribe talk or conversation which has been recorded phonographically. No. 125,634; June 3; v. 263; p. 162.
- Thomas A. Edison, Incorporated, West Orange, N. J. Phonographs. No. 128,049; Dec. 23; v. 269; p. 696.
- Thomas and Armstrong Co., The, London, Ohio. Corncribs, silo-roofs, barn-roof-ridging ventilators, metal shingles. No. 127,520; Nov. 11; v. 268; p. 375.
- Thomas Gill Soap Company, Inc., Brooklyn, N. Y. Toilet soaps. No. 124,531; Feb. 25; v. 259; p. 772.
- Thomas Gill Soap Company, Inc., Brooklyn, N. Y. Foot-soaps. No. 126,163; July 29; v. 264; p. 860.
- Thomas W. Simmons & Co., San Francisco, Calif. Dyes. No. 127,787; Dec. 2; v. 269; p. 187.
- Thompson, George P., New Orleans, La. Certain named foods. No. 125,002; Apr. 1; v. 261; p. 198.
- Thompson Piano Manufacturing Co., Steger, Ill. Pianos, player-pianos, and talking-machines. No. 124,209; Jan. 21; v. 258; p. 641.
- Thompson Piano Manufacturing Co., Steger, Ill. Furniture-polish. No. 126,792; Sept. 30; v. 266; p. 738.
- Thompson Shoe Company, St. Paul, Minn. Boots and shoes. No. 125,540; May 20; v. 262; p. 478.
- Thompson, Thos. R., New Haven, Conn. Wooden toys. No. 126,097; July 22; v. 264; p. 699.
- Thorndike Company, Thorndike, Mass. Cotton piece goods. No. 125,766; June 10; v. 263; p. 328.
- Thoro Corporation, The, Chicago, Ill. Powdered skin-cleansers. No. 127,521; Nov. 11; v. 268; p. 375.
- Thorpe, John A., Soda Springs, Idaho. Healing-powder. No. 127,251; Oct. 28; v. 267; p. 644.
- Thos. H. Logan Co., Hudson, Mass. Rubber composition soles for boots and shoes. No. 124,556; Feb. 25; v. 259; p. 772.
- Tiffany Furnaces, New York, N. Y. Glassware. No. 128,187; Dec. 23; v. 269; p. 700.
- Times Square Auto Supply Co. Inc., New York, N. Y. Automobile rubber tires and tubes. No. 127,149; Oct. 21; v. 267; p. 482.
- Timken-Detroit Axle Company, The, Detroit, Mich. Axles for motor-vehicles and worms and gears for use in motor-vehicles. No. 124,164; Jan. 14; v. 258; p. 446.
- Timken Roller Bearing Company, The, Canton, Ohio. Roller-bearings. No. 124,351; Feb. 4; v. 259; p. 179.
- Titus, Helena J., New York, N. Y. Preparations for toning, beautifying &c., the face, hands, skin, and complexion, and tonics, &c., for the hair, scalp, and dandruff. No. 124,603; Feb. 25; v. 259; p. 774.
- Tokalon, Inc., New York, N. Y. Toilet preparations. No. 127,889; Dec. 9; v. 269; p. 389.
- Toledo Rex Spray Co., Toledo, Ohio. Fungicides and horticultural insecticides. No. 127,794; Dec. 2; v. 269; p. 187.
- Tondevoid & Lewis, Lewiston, Idaho. Fresh apples and cherries. No. 125,178; Apr. 15; v. 261; p. 626.
- Toohy, Anna A., Northampton, Mass. Corsets. No. 124,787; Mar. 11; v. 260; p. 389.
- Toombs, Josephine W., Boston, Mass. Antiseptic ointments for burns, &c. No. 126,362; Aug. 19; v. 265; p. 455.
- Toomer, Hugh L. S., Louisville, Ky. Medicine for corns, bunions, and callouses. No. 126,098; July 22; v. 264; p. 699.
- Tootal Broadhurst Lee Co. Limd., Manchester, England. Cotton piece goods. Nos. 124,788-9; Mar. 11; v. 260; p. 389.
- Tootal Broadhurst Lee Company Limited, Manchester, England. Textile fabrics. No. 127,995; Dec. 16; v. 269; p. 543.
- Torrey, Elbert S., Boston, Mass. Men's shoes. No. 124,210; Jan. 21; v. 258; p. 641.
- Torrington Company, The, Torrington, Conn. Phonograph-needles. No. 127,693; Nov. 18; v. 268; p. 560.
- Touraine Company, The, Boston, Mass. Candies. No. 125,886; June 24; v. 263; p. 631.
- Tousey, Sinclair, New York, N. Y. Spectacle peep-sight disks for use in sighting or aiming-firearms. No. 127,150; Oct. 21; v. 267; p. 482.
- Tower Manufacturing Co. Inc., Brooklyn, N. Y. Dyes. No. 126,794; Sept. 30; v. 266; p. 738.
- Townsend Company, New Brighton, Pa. Ship-rivets. No. 124,790; Mar. 11; v. 260; p. 389.
- Toy Tinkers, The, Evanston, Ill. Wooden toy. No. 125,591; May 27; v. 262; p. 644.
- Tozzi, Peter W., Weehawken, N. J. Macaroni. No. 124,897; Mar. 18; v. 260; p. 557.
- Traffic Motor Truck Corporation, St. Louis, Mo. Motor-trucks. No. 126,914; Oct. 7; v. 267; p. 180.
- Traffic Motor Truck Corporation, St. Louis, Mo. Motor-trucks. No. 127,522; Nov. 11; v. 268; p. 376.
- Traugott Schmidt & Sons, Detroit, Mich. Sheep-leather. No. 124,165; Jan. 14; v. 258; p. 446.
- Traverse City Refrigerator Co., Traverse City, Mich. Refrigerators and ice-boxes. No. 124,898; Mar. 18; v. 260; p. 557.
- Treat, C. E., Santa Ana, Calif. Electric plugs. No. 126,099; July 22; v. 264; p. 699.
- Treat 'Em Rough Publishing Co., Inc., New York, N. Y. Monthly periodical. No. 127,890; Dec. 9; v. 269; p. 389.
- Treno Co., Los Angeles, Calif. Hair-dressing. No. 127,795; Dec. 2; v. 269; p. 187.
- Treo Company, Inc., New York, N. Y. Certain named clothing. No. 125,317; Apr. 8; v. 261; p. 166.
- Tringali, Santi, New York, N. Y. Medicinal preparation for internal use in the treatment of stomachache and nervous debility. No. 125,259; Apr. 22; v. 261; p. 797.
- Tripod Paint Company, Atlanta, Ga. Paints. No. 128,188; Dec. 23; v. 269; p. 700.
- Troy Wagon Works Co., The, Troy, Ohio. Wagons and trailers. No. 125,105; Apr. 8; v. 261; p. 408.
- True Artificial Limb Company, The, Niagara Falls, N. Y. Artificial limbs. No. 128,270; Dec. 30; v. 269; p. 882.
- Truscon Steel Company, Youngstown, Ohio. Products made of steel, asbestos, clay, &c. No. 126,795; Sept. 30; v. 266; p. 738.
- Tuck and Company, Limited, London, England. Certain named belting, hose, &c. No. 124,487; Feb. 18; v. 259; p. 572.
- Turan, Louis, Brooklyn, N. Y. Preparation for treating stomach and liver troubles. No. 126,796; Sept. 30; v. 266; p. 738.
- Turnbull Motor Truck and Wagon Co., The, Defiance, Ohio. Automobiles, wagons, trucks, &c. No. 125,683; June 3; v. 263; p. 163.
- Turner, John Z., Philadelphia, Pa. Butter, eggs, poultry. No. 125,107; Apr. 8; v. 261; p. 408.
- Turney, Burton E., Bridgeport, Conn. Dental creams. No. 127,694; Nov. 18; v. 268; p. 560.
- Tustin Hills Citrus Association, Tustin, Cal. Oranges. No. 124,166; Jan. 14; v. 258; p. 446.
- Tustin Hills Citrus Association, Tustin, Calif. Oranges. No. 125,003; Apr. 1; v. 261; p. 198.
- Twin City Varnish Co., St. Paul, Minn. Paints and varnishes. No. 125,850; June 17; v. 263; p. 479.
- U-Auto Varnish Company, Cleveland, Ohio. Polishing preparation for automobiles, &c. No. 128,190; Dec. 23; v. 269; p. 700.
- U-Magnet Razor Company, Lowell, Mass. Safety-razor blades. No. 127,253; Oct. 28; v. 267; p. 644.
- U-Need-It Dry Storage Battery Co. Inc., New York, N. Y. Storage batteries. No. 125,108; Apr. 8; v. 261; p. 408.
- U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol, &c. No. 125,180; Apr. 15; v. 261; p. 626.
- U. S. Industrial Chemical Co., Incorporated, New York, N. Y. Ethyl alcohol. No. 124,606; Feb. 25; v. 259; p. 774.
- U. S. Industrial Chemical Co. Inc., New York, N. Y. Acetates, methyl acetate, &c. No. 127,263; Nov. 4; v. 268; p. 187.
- U. T. Hungerford Brass & Copper Co., New York, N. Y. Steel tubing. No. 127,843; Dec. 9; v. 269; p. 388.
- Ulmer Leather Co., The, Norwich, Conn. Leather belting. No. 124,167; Jan. 14; v. 258; p. 446.
- Ulmer Leather Co., The, Norwich, Conn. Leather belting. No. 124,604; Feb. 25; v. 259; p. 774.
- Ulmer Leather Company, The, Norwich, Conn. Belt-dressing. No. 125,179; Apr. 15; v. 261; p. 627.
- Ulmer Leather Co., The, Norwich, Conn. Leather belting. No. 125,684; June 3; v. 263; p. 163.
- Ulmer Leather Company, The, Norwich, Conn. Leather belting. No. 125,712; June 3; v. 263; p. 164.
- Ulmer Leather Company, The, Norwich, Conn. Waterproof adhesive cement. No. 125,851; June 17; v. 263; p. 479.
- Ulmer Leather Co., The, Norwich, Conn. Leather belting. No. 126,494; Aug. 26; v. 265; p. 630.
- Ulrich, Christ J., St. Louis, Mo. Chemical carbon-remover and chemical gas-saver. No. 125,767; June 10; v. 263; p. 328.
- Ulrich Medicine Co., New York, N. Y. Cerebral tonic and pulmonary medicine and tonic. No. 126,797; Sept. 30; v. 266; p. 738.
- Ultima Physical Appliance Co., Chicago, Ill. Rheostat for regulating the voltage of the alternating current as applied in medical treatment. No. 124,488; Feb. 18; v. 259; p. 572.
- Union Fibre Company, Winona, Minn. Certain named adhesives. No. 124,271; Jan. 28; v. 258; p. 811.
- Union Lumber Company, San Francisco, Calif. Grape-packing made of redwood sawdust, &c. No. 127,523; Nov. 11; v. 268; p. 376.
- Union Manufacturing Company, New Britain, Conn. Carpenters' planes and lathe-chucks, &c. No. 125,852; June 17; v. 263; p. 479.
- Union Meat Company, Portland and North Portland, Oreg. Nut-margarin and oleomargarin. No. 127,151; Oct. 21; v. 267; p. 482.
- Union Petroleum Company, Philadelphia, Pa. Oils, greases, &c. No. 128,191; Dec. 23; v. 269; p. 700.



- Union Smelting & Refining Company, Inc., New York, N. Y. White, &c., metals, white-metal alloys. No. 124,795; Mar. 11; v. 260; p. 389.
- Union Special Machine Company, Chicago, Ill. Certain named clothing. No. 124,272; Jan. 28; v. 258; p. 811.
- Union Special Machine Company, Chicago, Ill. Sewing-machines and parts thereof. No. 124,794; Mar. 11; v. 260; p. 389.
- Union Twist Drill Co., Athol, Mass. Cutters, mills, hobs, saws, &c. No. 126,223; July 29; v. 264; p. 862.
- United Advertising & Sales Co., San Francisco, Calif. Electric automatic advertising-machines. Nos. 127,152-3; Oct. 21; v. 267; p. 482.
- United Battery Corporation, New York, N. Y. Electric batteries. No. 125,260; Apr. 22; v. 261; p. 797.
- United Brush Manufactories, New York, N. Y. Varnish-brushes. No. 127,524; Nov. 11; v. 268; p. 376.
- United Brush Manufactories, New York, N. Y. Paint and varnish brushes. No. 127,525; Nov. 11; v. 268; p. 376.
- United Brush Manufactories, New York, N. Y. Varnish and paint brushes, &c. No. 127,526; Nov. 11; v. 268; p. 376.
- United Brush Manufactories, New York, N. Y. Brushes used as sash-tools. No. 127,527; Nov. 11; v. 268; p. 376.
- United Brush Manufactories, New York, N. Y. Varnish-brushes. No. 127,528; Nov. 11; v. 268; p. 376.
- United Brush Manufactories, New York, N. Y. Artists' brushes. No. 127,529; Nov. 11; v. 268; p. 376.
- United Canneries Company of California, Oakland, Calif. Canned peaches. Nos. 125,592-5; May 27; v. 262; p. 644.
- United Canneries Company of California, Oakland, Calif. Canned peaches. No. 126,363; Aug. 19; v. 265; p. 455.
- United Canneries Company of California, Oakland, Calif. Canned peaches and canned tomatoes with purée from trimmings. No. 127,530; Nov. 11; v. 268; p. 376.
- United Cigars Manufacturing Company, (now by change of name General Cigar Co., Inc.) Cigars. No. 125,713; June 3; v. 263; p. 164.
- United Cigar Stores Company of America, Jersey City, N. J. Cigars, cigarettes, tobacco, and snuff. No. 126,364; Aug. 19; v. 265; p. 455.
- United Drug Company, Boston, Mass. Writing-paper. No. 126,100; July 22; v. 264; p. 699.
- United Drug Company, Boston, Mass. Perfumery. Nos. 126,495-6; Aug. 26; v. 265; p. 630.
- United Fabrics Corporation, New York, N. Y. Cotton, woolen, silk, &c., piece goods. No. 124,605; Feb. 25; v. 259; p. 774.
- United Growers Association of Turlock, Turlock, Calif. Fresh cantaloups. No. 125,686; June 3; v. 263; p. 163.
- United Kingdom Tobacco Company, Limited, The, London, England. Cigarettes. No. 124,899; Mar. 18; v. 260; p. 557.
- United Kingdom Tobacco Company, Limited, London, England. Cigarettes. No. 125,004; Apr. 1; v. 261; p. 198.
- United Kingdom Tobacco Company, Limited, The, Bishopsgate, London, England. Cigarettes. No. 126,793; Sept. 30; v. 266; p. 738.
- United Kingdom Tobacco Company, Limited, The, London, England. Cigarettes. No. 127,996; Dec. 16; v. 269; p. 543.
- United Manufacturing & Distributing Company, Chicago, Ill. Spark-plugs. No. 127,154; Oct. 21; v. 267; p. 482.
- United Sanitary Products Co., Inc., New York, N. Y. Disinfectants and insecticides. No. 125,768; June 10; v. 263; p. 328.
- United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Nails and tacks. No. 124,796; Mar. 11; v. 260; p. 389.
- United States of America, Washington, D. C. Internal-combustion engines and parts thereof. No. 125,853; June 17; v. 263; p. 479.
- United States Corn Confection Company, Battle Creek, Mich. Candied popcorn. No. 124,797; Mar. 11; v. 260; p. 389.
- United States Drug & Chemical Co., The, Cleveland, Ohio. Certain named chemicals, medicines, and pharmaceutical preparations. No. 124,489; Feb. 18; v. 259; p. 572.
- United States Macaroni Company, Los Angeles, Calif. Macaronic foods. No. 124,900; Mar. 18; v. 260; p. 557.
- United States Macaroni Company, Los Angeles, Calif. Macaronic foods. No. 125,769; June 10; v. 263; p. 328.
- United States Rubber Company, The, New York, N. Y. Jar-rings. No. 124,798; Mar. 11; v. 260; p. 389.
- United States Rubber Company, New York, N. Y. Oil or rubber treated rainproof overcoats. No. 125,854; June 17; v. 263; p. 479.
- United States Rubber Company, New York, N. Y. Rubber boots and shoes. No. 128,192; Dec. 23; v. 269; p. 700.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots and shoes made wholly or in part of rubber, and rubber heels. No. 124,490; Feb. 18; v. 259; p. 573.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Certain named belting, hose, machinery packing, and tires. No. 126,365; Aug. 19; v. 265; p. 455.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes. No. 127,299; Nov. 4; v. 268; p. 188.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes made of leather. Nos. 127,531-3; Nov. 11; v. 268; p. 376.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Shoes of leather and leather and cloth. No. 127,534; Nov. 11; v. 268; p. 376.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Coats, &c., made of fabric, fabric and rubber, &c. No. 127,535; Nov. 11; v. 268; p. 376.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Rubber pump-valves. No. 127,997; Dec. 16; v. 269; p. 544.
- United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Felt slippers. No. 128,271; Dec. 30; v. 269; p. 882.
- United States Steel Products Company, New York, N. Y. Ammonium sulfate. No. 126,101; July 22; v. 264; p. 699.
- United States Wire Mat Company, Decatur, Ill. Fly-killers. No. 124,607; Feb. 25; v. 259; p. 774.
- United Workmen's Boot & Shoe Mfg. Co., San Francisco, Calif. Boots and shoes. No. 127,254; Oct. 28; v. 267; p. 644.
- Universal Appliance Corporation, Kansas City, Mo. Electric motors and electric-motor parts. No. 127,891; Dec. 9; v. 269; p. 389.
- Universal Bearing Company, The, Lorain, Ohio. Bearing metal. No. 127,155; Oct. 21; v. 267; p. 482.
- Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y. Sheets, sheetings, &c. No. 125,855; June 17; v. 263; p. 479.
- Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y. Sheets, sheeting, &c. No. 126,911; Oct. 7; v. 267; p. 180.
- Utica Steam and Mohawk Valley Cotton Mills, Utica, N. Y. Sheets, sheetings, &c. No. 127,536; Nov. 11; v. 268; p. 376.
- Utility Machine Appliance Co., Inc., New York, N. Y. Vises of all kinds, &c. No. 126,611; Sept. 23; v. 266; p. 593.
- Utility Manufacturing Company, Baltimore, Md. Hardware and plumbing and steam-fitting supplies. No. 126,799; Sept. 30; v. 266; p. 738.
- V. Marrone & Company Inc., Utica, N. Y. Cotton-seed, salad-oil or lard substitute. No. 126,039; July 22; v. 264; p. 698.
- Vacuum Oil Company, New York, N. Y. Oils for lubricating textiles. Nos. 124,168-9; Jan. 14; v. 258; p. 446.
- Vacuum Oil Company, New York, N. Y. Oils for dressing and finishing leather. Nos. 124,424-5; Feb. 11; v. 259; p. 381.
- Vacuum Oil Company, Rochester, N. Y. Lubricating-oils. No. 124,426; Feb. 11; v. 259; p. 381.
- Vacuum Oil Company, Rochester, N. Y. Lubricating-oils. No. 124,799; Mar. 11; v. 260; p. 389.
- Val Blatz Jr. Candy Co., Milwaukee, Wis. Candy. No. 124,608; Feb. 25; v. 259; p. 774.
- Valdosta Chemical Company, Valdosta, Ga. Insecticide. No. 125,596; May 27; v. 262; p. 644.
- Valentine & Company, New York, N. Y. Varnish stains and enamels, color and clear varnishes, paint. No. 126,224; July 29; v. 264; p. 862.
- Valley View Ranch, Ontario, Calif. Fresh citrus fruits. No. 126,801; Sept. 30; v. 266; p. 738.
- Van Dorn & Dutton Company, Cleveland, Ohio. Gears. No. 126,212; Sept. 23; v. 266; p. 593.
- Van Dyk & Co., New York, N. Y. Perfume-bases, flower-oils, &c. No. 127,696; Nov. 18; v. 268; p. 561.
- Van Hook, William G., Earl, Ark. Salve. No. 127,697; Nov. 18; v. 268; p. 561.
- Van Sant & Co., San Francisco, Calif. Canned sardines. No. 126,102; July 22; v. 264; p. 700.
- Van Sant & Co., San Francisco, Calif. Canned tomato paste, pimientos, and salmon. No. 126,802; Sept. 30; v. 266; p. 738.
- Van Schaack Bros. Chemical Works, Chicago, Ill. Waterproof cement for use on leather, paper, &c. No. 126,103; July 22; v. 264; p. 700.
- Van Veen, Arthur L., New York, N. Y. Demonstration-booths. No. 124,170; Jan. 14; v. 258; p. 446.
- Vanderpan Brothers, Denver, Colo. Furniture-polish. No. 126,366; Aug. 19; v. 265; p. 455.
- Vanity Fair Publishing Co., New York, N. Y. Monthly magazine. No. 125,541; May 20; v. 262; p. 478.
- Vanity Fair Silk Mills. (See Schuykill Silk Mills, assignor.)
- Vaughn, Sallie P., Memphis, Tenn. Hair oil and tonics and pressing-oil. No. 126,971; Oct. 14; v. 267; p. 336.
- Velle Motors Corporation, Moline, Ill. Automobile and motor trucks. No. 128,193; Dec. 23; v. 269; p. 700.
- Vellner, Eugene, Philadelphia, Pa. Soaps for cleaning and scouring textiles. No. 127,156; Oct. 21; v. 267; p. 482.



## Alphabetical list of registrants of trade-marks—Continued.

- Velox Vise Co., Inc., Lowville, N. Y. Vises. No. 124,800; Mar. 11; v. 260; p. 389.
- Venesta Limited, London, England. Composite or compound sheets of wood made of ply material. No. 128,194; Dec. 23; v. 269; p. 700.
- Venuto, Joseph, Philadelphia, Pa. Skin-lotions. No. 127,695; Nov. 18; v. 268; p. 560.
- Venuto, Joseph, Philadelphia, Pa. Skin-lotions. No. 127,698; Nov. 18; v. 268; p. 561.
- Ver-Ba Beverage Co., Newark, Ohio. Certain named non-alcoholic beverages. No. 124,901; Mar. 18; v. 260; p. 558.
- Vermont Maple Syrup Company Inc., Essex Junction, Vt. Cane and maple syrup. No. 124,902; Mar. 18; v. 260; p. 558.
- Versal Products Manufacturing Company, Detroit, Mich. Speed-controlling mechanism for internal-combustion engines. No. 126,613; Sept. 23; v. 266; p. 593.
- Veteran Shoe Company, San Diego, Calif. Leather shoes for men. No. 126,497; Aug. 26; v. 265; p. 630.
- Victor Balata & Textile Belting Company, Easton, Pa. Canvas-stitched belting. No. 124,491; Feb. 18; v. 259; p. 573.
- Victor Leather Company, Allentown, Pa. Tanned and finished calf and kid leather. No. 127,537; Nov. 11; v. 268; p. 376.
- Victor Shaw Ring Traveler Co., Providence, R. I. Pamphlet or magazine periodically published. No. 124,903; Mar. 18; v. 260; p. 558.
- Victory Bag & Paper Co., Chicago, Ill. Paper bags. Nos. 124,610-19; Feb. 25; v. 259; p. 774.
- Viele, Blackwell & Buck, New York, N. Y. Steel metals and metal castings and forgings. No. 127,157; Oct. 21; v. 267; p. 482.
- Viking Rennet Company, Hoboken, N. J. Tablets for curds and whey. No. 124,620; Feb. 25; v. 259; p. 774.
- Viking Rennet Company, Hoboken, N. J. Rennet, used in making cheese. No. 125,005; Apr. 1; v. 261; p. 198.
- Vilchik, Waley, Pageton, W. Va. Liquid preparation for preventing perspiration. No. 124,621; Feb. 25; v. 259; p. 774.
- Viret, Julien, New York, N. Y. Veils, hair-nets, combination veils and nets. No. 126,586; Sept. 16; v. 266; p. 447.
- Virginia Fruit Juice Co., Inc., Norfolk, Va. Pure apple-juice. No. 124,944; Mar. 25; v. 260; p. 729.
- Virocacao Company Inc., The, New York, N. Y. Certain named food. No. 126,367; Aug. 19; v. 265; p. 455.
- Vit-O-Net Manufacturing Company. (See Caddick, William F., assignor.)
- Vogue Company, New York, N. Y. Semimonthly publication. No. 125,542; May 20; v. 262; p. 478.
- Voigt & Co., Chattanooga, Tenn. Pharmaceutical preparation. No. 127,892; Dec. 9; v. 269; p. 389.
- Von Der Heyde & John, New York, N. Y. Boots and shoes made of certain materials, and rubber soles. No. 124,273; Jan. 28; v. 258; p. 811.
- Voorhies, Frank C., Minneapolis, Minn. Non-alcoholic beverages. No. 127,893; Dec. 9; v. 269; p. 389.
- W. A. Noltemeier Co. Inc., New York, N. Y. Fresh vegetables. No. 128,141; Dec. 23; v. 269; p. 699.
- W. F. Assau Canning Co., Baltimore, Md. Canned fruits and vegetables. No. 125,605; June 3; v. 263; p. 161.
- W. H. McElwain Company, Boston, Mass. Boots and shoes. No. 124,201; Jan. 21; v. 258; p. 641.
- W. H. Paling and Co. Limited, Sydney, New South Wales, Australia. Pianos. No. 124,333; Feb. 4; v. 259; p. 178.
- W. J. Shaw & Sons, (Limerick) Limited, Limerick, Ireland. Bacon and hams. No. 126,778; Sept. 30; v. 266; p. 738.
- W. M. Boyle Manufacturing Company, Kansas City, Mo. Paints, varnish, and stain. No. 127,717; Dec. 2; v. 269; p. 185.
- W. P. Tanner-Gross & Company, Inc., New York, N. Y. Wheat-flour. Nos. 124,479-84; Feb. 18; v. 259; p. 572.
- W. P. Tanner-Gross & Company, Inc., New York, N. Y. Wheat-flour. No. 125,370; May 13; v. 262; p. 310.
- W. R. Grace & Co., New York, N. Y., and San Francisco, Calif. Textile fabrics consisting of cotton piece goods. No. 125,337; May 13; v. 262; p. 309.
- W. R. Grace & Co., New York, N. Y., and San Francisco, Calif. Cotton piece goods. No. 125,807; June 17; v. 263; p. 478.
- W. R. Grace & Co., New York, N. Y., and San Francisco, Calif. Textile fabrics. Nos. 126,541-5; Sept. 16; v. 266; p. 446.
- W. R. Grace & Co., New York, N. Y., and San Francisco, Calif. Cotton piece goods. No. 127,407; Nov. 11; v. 268; p. 372.
- W. R. Roach & Co., Hart, Mich. Canned vegetables. No. 128,258; Dec. 30; v. 269; p. 882.
- W. R. Roach & Co., Hart, Mich. Canned fruit and vegetables. No. 128,259; Dec. 30; v. 269; p. 882.
- W. R. Roach & Co., Hart, Mich. Canned peas. No. 128,260; Dec. 30; v. 269; p. 882.
- W. S. Forbes & Co., Inc., Richmond, Va. Vegetable shortening. No. 125,639; June 3; v. 263; p. 162.
- W. S. Nott Company, Minneapolis, Minn. Stitched canvas belting. No. 125,084; Apr. 8; v. 261; p. 407.
- W. T. Holmes Company, Philadelphia, Pa. Leather, fabric, and combination shoes for women. No. 127,418; Nov. 11; v. 268; p. 372.
- W. T. Rawleigh Company, Freeport, Ill. Flavors and spices. No. 128,256; Dec. 30; v. 269; p. 882.
- W. T. Welisch & Co., San Francisco, Calif. Publication. No. 126,499; Aug. 26; v. 265; p. 631.
- W. T. Welisch & Co. Inc., San Francisco, Calif. Rice. No. 127,702; Nov. 18; v. 268; p. 561.
- W. W. Kimball Company, Chicago, Ill. Phonographs. No. 124,851; Mar. 18; v. 260; p. 556.
- Wahl Company, The, Chicago, Ill. Leads for mechanical pencils. No. 125,547; May 20; v. 262; p. 478.
- Waite Grass Carpet Company, Oshkosh, Wis. Grass rugs. No. 126,225; July 29; v. 264; p. 862.
- Waite Grass Carpet Company, Oshkosh, Wis. Floor-rugs. Nos. 128,196-7; Dec. 23; v. 269; p. 701.
- Walerylanczyk, Thomas, Cleveland, Ohio. Medical preparation for rheumatism. No. 127,158; Oct. 21; v. 267; p. 482.
- Wallace, Wallace V., Chicago, Ill. Hair-tonic. No. 126,972; Oct. 14; v. 267; p. 336.
- Wallie Dorr Company, New York, N. Y. Toy furniture. No. 127,380; Nov. 11; v. 268; p. 371.
- Wallins, Isador A., Decatur, Ill. Eggs. No. 125,687; June 3; v. 263; p. 163.
- Waiser, John O., Los Angeles, Calif. Cotton, Medicinal. No. 125,943; July 15; v. 264; p. 531.
- Walsh, William C., Philadelphia, Pa. Shoe-soles of rubber or rubber and fiber composition. No. 125,109; Apr. 8; v. 261; p. 408.
- Walshaw, Edwin A., Bolton, Ontario, Canada. Electrical-insulator connectors. No. 127,700; Nov. 18; v. 268; p. 561.
- Waltham Grinding Wheel Company, Waltham, Mass. Grinding-wheels. No. 127,160; Oct. 21; v. 267; p. 482.
- Walukiewicz, F. J., La Salle, Ill. Liniment. No. 126,803; Sept. 30; v. 266; p. 738.
- Wamsutta Mills, New Bedford, Mass. Cotton piece goods. No. 124,905; Mar. 18; v. 260; p. 558.
- Wamsutta Mills, New Bedford, Mass. Cotton piece goods. No. 124,906; Mar. 18; v. 260; p. 558.
- Wanner, Charles A., Fleetwood, Pa. Hosiery. No. 124,904; Mar. 18; v. 260; p. 558.
- Waples-Platter Grocer Company, Denison, Tex. Canned goods. No. 126,614; Sept. 23; v. 266; p. 593.
- Wappler Electric Co., Inc., New York, N. Y. X-ray tubes. No. 125,688; June 3; v. 263; p. 163.
- Ward Baking Company, New York, N. Y. Shortening composition. No. 124,907; Mar. 18; v. 260; p. 558.
- Ward Baking Company, New York, N. Y. Cakes. No. 125,110; Apr. 8; v. 261; p. 408.
- Ward Baking Company, New York, N. Y. Bread. No. 125,371; May 13; v. 262; p. 310.
- Ward Baking Company, New York, N. Y. Cakes. Nos. 125,372-3; May 13; v. 262; p. 310.
- Ward Baking Company, New York, N. Y. Cakes. No. 125,689; June 3; v. 263; p. 163.
- Ward Baking Company, New York, N. Y. Cakes. No. 127,699; Nov. 18; v. 268; p. 561.
- Ward, Joseph E., Long Beach, Calif. Blinder for road-surfaces. No. 127,998; Dec. 16; v. 269; p. 544.
- Ward, Lee, Kingfisher, Okla. Preparation for destroying pests that are injurious to cotton, &c. No. 125,181; Apr. 15; v. 261; p. 627.
- Ward, William B., Buffalo, N. Y. Bread, biscuits, cake. No. 126,368; Aug. 19; v. 265; p. 455.
- Wardlaw, Leonard A., Dallas, Tex. Potato chips. No. 125,261; Apr. 22; v. 261; p. 797.
- Wardrobe Shop, Inc., The, New York, N. Y. Ladies' dresses and hats. No. 124,274; Jan. 28; v. 258; p. 811.
- Wardrobe Shop, Inc., The, New York, N. Y. Ladies' dresses. No. 124,623; Feb. 25; v. 259; p. 774.
- Warley, Thos. C., Philadelphia, Pa. Boiler-cleansing chemicals. No. 124,624; Feb. 25; v. 259; p. 775.
- Warner-Jenkinson Manufacturing Company, St. Louis, Mo. Food-flavoring extracts. No. 124,352; Feb. 4; v. 259; p. 179.
- Warner, Moore & Co., Richmond, Va. Flour made from wheat. No. 124,908; Mar. 18; v. 260; p. 558.
- Warner-Patterson Company, Chicago, Ill. Shaving-brushes. No. 126,369; Aug. 19; v. 265; p. 455.
- Warner, Robert L. L., Binghamton, N. Y. Medicinal health-invigorator. No. 127,539; Nov. 11; v. 268; p. 376.
- Warren Oil Company of Pennsylvania, Warren, Pa. Petroleum products. No. 127,540; Nov. 11; v. 268; p. 376.
- Warrensburg Mills, The, Warrensburg, Mo. Wheat-flour. No. 124,909; Mar. 18; v. 260; p. 558.
- Warrensburg Mills, Warrensburg, Mo. Wheat-flour. No. 125,007; Apr. 1; v. 261; p. 199.
- Wash-Easy Company, Chicago, Ill. Laundry-washing machines. No. 126,615; Sept. 23; v. 266; p. 593.
- Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. Nos. 125,597-600; May 27; v. 262; p. 644.
- Washburn Crosby Co., Minneapolis, Minn. Wheat-flour. Nos. 125,690-2; June 8; v. 263; p. 163.
- Washburn-Crosby Co., Minneapolis, Minn. Bread. No. 127,797; Dec. 2; v. 269; p. 187.
- Washington Grain and Milling Co., Reardan, Wash. Wheat-flour. No. 124,427; Feb. 11; v. 259; p. 381.



- Washington Times Company, Washington, D. C. News-papers (published daily and Sunday.) No. 127,894; Dec. 9; v. 269; p. 390.
- Waters-Weismann Co. Inc., The, Binghamton, N. Y. Top skirts and petticoats. No. 127,541; Nov. 11; v. 268; p. 376.
- Watts, Stebbins Co., New York, N. Y. Cotton piece goods. No. 124,492; Feb. 18; v. 259; p. 573.
- Watts, Stebbins & Co., New York, N. Y. Cotton piece goods. No. 125,770; June 10; v. 263; p. 328.
- Waukesha Pure Food Company, Waukesha, Wis. Jelly-powders. No. 125,693; June 3; v. 263; p. 163.
- Way Bros. Manufacturing Company, Philadelphia, Pa. Undershirts, drawers, and union-suits. No. 127,542; Nov. 11; v. 268; p. 376.
- Weber-Freeman Milling Co., The, Salina, Kans. Wheat-flour. No. 124,493; Feb. 18; v. 259; p. 573.
- Weber, John B., South Bend, Ind. Candy. No. 126,912; Oct. 7; v. 267; p. 180.
- Weeks, Charles A., Philadelphia, Pa. Germicide solution. No. 127,701; Nov. 18; v. 268; p. 561.
- Weideman Co., The, Cleveland, Ohio. Cigarettes. No. 127,999; Dec. 16; v. 269; p. 544.
- Weideman Company, The, Cleveland, Ohio. Coffee. No. 124,910; Mar. 18; v. 260; p. 558.
- Weihenmayer, William J., Philadelphia, Pa. Knitting-yarns. No. 128,199; Dec. 23; v. 269; p. 701.
- Weil, Alexis, New York, N. Y. Hosiery. Nos. 127,543-4; Nov. 11; v. 268; p. 376.
- Weingarten Bros., Inc., New York, N. Y. Corsets and brassieres. No. 125,111; Apr. 8; v. 261; p. 408.
- Weinreb & Horowitz, New York, N. Y. Women's and misses' outer coats, waists. No. 124,911; Mar. 18; v. 260; p. 558.
- Weinstock-Nichols Co., San Francisco, Oakland, and Los Angeles, Calif. Publication issued monthly. No. 126,107; July 22; v. 264; p. 700.
- Welch Grape Juice Co., Westfield, N. Y. Grape jam. No. 124,353; Feb. 4; v. 259; p. 179.
- Welch Grape Juice Company, The, Westfield, N. Y. Grape-juice. No. 125,112; Apr. 8; v. 261; p. 408.
- Welch Grape Juice Company, Westfield, N. Y. Jam or conserve. No. 125,944; July 15; v. 264; p. 531.
- Welch Grape Juice Company, Westfield, N. Y. Jam or conserve. Nos. 126,108-9; July 22; v. 264; p. 700.
- Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, fruit butter, and conserves. No. 127,545; Nov. 11; v. 268; p. 376.
- Welden, Ray H., Tulsa, Okla. Bug and insect powder. No. 127,546; Nov. 11; v. 268; p. 376.
- Weldon Roberts Rubber Co., Newark, N. J. Metal polishing or cleaning erasers. No. 127,123; Oct. 21; v. 267; p. 481.
- Weldona Company, Boston, Mass. Laxative. No. 124,172; Jan. 14; v. 258; p. 446.
- Weldona Company, Boston, Mass. Medicine for rheumatism. No. 124,173; Jan. 14; v. 258; p. 446.
- Wellman, Charles A., Ottumwa, Iowa. Clothes hamper or basket. No. 124,626; Feb. 25; v. 259; p. 775.
- Wells, Henry M., London, England. Oils. No. 128,272; Dec. 30; v. 269; p. 882.
- Wells-Lamont Manufacturing Company, Minneapolis, Minn. Leather and fabric gloves and mittens. No. 124,275; Jan. 28; v. 258; p. 811.
- Welsbach Company, Gloucester City, N. J. Gas mantles and lamps. No. 125,696; June 3; v. 263; p. 163.
- Welz & Zerweck, Inc., Brooklyn, N. Y. Non-intoxicating maltless cereal beverage. No. 124,354; Feb. 4; v. 259; p. 179.
- Werner, Herman, St. Louis, Mo. Vehicle-dumping devices. No. 124,804; Mar. 11; v. 260; p. 389.
- Wertheimer Brothers, New York, N. Y. Hair-ribbons. No. 124,174; Jan. 14; v. 258; p. 446.
- West, Augustus A., Philadelphia, Pa. Hair-nets. No. 125,771; June 10; v. 263; p. 328.
- West, Augustus A., Philadelphia, Pa. Shampoo. No. 125,856; June 17; v. 263; p. 479.
- West Coast Packing Co., Los Angeles, Calif. Canned fish, fruit, and vegetables. No. 126,370; Aug. 19; v. 265; p. 455.
- West Coast Soap Co., Oakland, Calif. Laundry soap. No. 127,206; Oct. 21; v. 267; p. 484.
- West & Dodge Company, Boston, Mass. Thread-gages. No. 127,547; Nov. 11; v. 268; p. 376.
- Westcott Chuck Company, Oneida, N. Y. Lathe and drill chucks. No. 126,500; Aug. 26; v. 265; p. 631.
- Westcott Chuck Company, Oneida, N. Y. Lathe-chucks. No. 126,587; Sept. 16; v. 266; p. 447.
- Westcott Chuck Company, Oneida, N. Y. Lathe-chucks. No. 126,804; Sept. 30; v. 266; p. 738.
- Westcott Chuck Company, Oneida, N. Y. Chucks for drills and lathes. No. 127,161; Oct. 21; v. 267; p. 482.
- Westcott Chuck Company, Oneida, N. Y. Chucks for drills and lathes. No. 127,255; Oct. 28; v. 267; p. 644.
- Westcott, Slade & Balcom Company, Providence, R. I. Varnish. No. 124,355; Feb. 4; v. 259; p. 179.
- Western Beverage Co., Seattle, Wash. Apple cider, fruit-juices, and extracts in general to be used for beverage purposes. No. 124,175; Jan. 14; v. 258; p. 446.
- Western Clock Co., Peru, Ill. Clocks and watches. No. 124,428; Feb. 11; v. 259; p. 381.
- Western Dry Goods Company, Seattle, Wash., and New York, N. Y. Men's socks. No. 124,276; Jan. 28; v. 258; p. 811.
- Western Electric Company, Incorporated, New York, N. Y. Bar and resin-core solders. No. 127,895; Dec. 9; v. 269; p. 390.
- Western Garment Company, Chicago, Ill. Lingerie and petticoats. No. 127,548; Nov. 11; v. 268; p. 376.
- Western Grocer Company, Marshalltown, Iowa. Ginger-ale, root-beer, &c. No. 126,805; Sept. 30; v. 266; p. 738.
- Western Grocer Company, Marshalltown, Iowa. Castor-oil, glycerin, borax, &c. No. 127,798; Dec. 2; v. 269; p. 187.
- Western Rope & Manufacturing Company, Tulsa, Okla. Steam, &c., engines and pumps. No. 126,616; Sept. 23; v. 266; p. 593.
- Western Tablet Company, St. Joseph, Mo. Certain named writing-tablets and type-writer paper. No. 124,912; Mar. 18; v. 260; p. 558.
- Western Vulcanizer Manufacturing Company, Chicago, Ill. Paste paint. No. 128,201; Dec. 23; v. 269; p. 701.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical insulators. No. 126,588; Sept. 16; v. 266; p. 447.
- Westmoreland Chemical and Color Company, The, Philadelphia, Pa. Medicinal ointment for certain named skin diseases. No. 124,627; Feb. 25; v. 259; p. 775.
- Wharton, Frank, Elyria, Ohio. Rubber heels for shoes. No. 125,549; May 20; v. 262; p. 478.
- Wheat Meal Co., Lemars, Iowa. Breakfast food made from rye-wheat. No. 125,008; Apr. 1; v. 261; p. 199.
- Wheatena Company, The, New York, N. Y., and Rahway, N. J. Cereal breakfast food. No. 125,182; Apr. 15; v. 261; p. 627.
- Wheat's Ice Cream Company, Buffalo, N. Y. Canned sweetened condensed milk. No. 126,110; July 22; v. 264; p. 700.
- Whitaker Paper Company, The, Cincinnati, Ohio. Paper. No. 126,501; Aug. 26; v. 265; p. 631.
- Whitall Tatum Company, New York, N. Y. Certain named pharmaceutical rubber goods. No. 124,176; Jan. 14; v. 258; p. 446.
- Whitall Tatum Company, New York, N. Y. Elastic nursing-nipples. No. 126,973; Oct. 14; v. 267; p. 337.
- Whitcomb, Georgiana M., New York, N. Y. Laxative. No. 126,806; Sept. 30; v. 266; p. 738.
- Whitcomb, Georgiana M., New York, N. Y. Medicinal preparation for epilepsy, convulsions, and spasms. No. 127,162; v. 267; p. 482.
- Whitcomb, Georgiana M., New York, N. Y. Medicinal treatment for epilepsy. No. 127,703; Nov. 18; v. 268; p. 561.
- White and Brother, Incorporated, Philadelphia, Pa. Non-ferrous metals. No. 127,163; Oct. 21; v. 267; p. 482.
- White House Milk Products Co., West End, Wis. Canned unsweetened evaporated milk. No. 124,494; Feb. 18; v. 259; p. 573.
- White, Madam Annie, Cincinnati, Ohio. Hair-tonics. No. 127,704; Nov. 18; v. 268; p. 561.
- White Motor Company, The, Cleveland, Ohio. Automobiles. No. 126,974; Oct. 14; v. 267; p. 337.
- White Mountain Freezer Company, The, Nashua, N. H. Ice-cream freezers. No. 127,164; Oct. 21; v. 267; p. 482.
- White Star Refining Co., Detroit, Mich. Petroleum products. No. 127,549; Nov. 11; v. 268; p. 376.
- Whiting-Plover Paper Company, Stevens Point, Wis. Printing-papers. No. 124,178; Jan. 14; v. 258; p. 446.
- Whitmore, William H., Cleveland, Ohio. Belt-dressing and belt-preserver and polishes for leather. No. 124,179; Jan. 14; v. 258; p. 446.
- Whitmore, William H., Cleveland, Ohio. Ointment for the treatment of rough or coarse skin, burns, &c. No. 126,111; July 22; v. 264; p. 700.
- Whitmore, William H., Cleveland, Ohio. Ointment for all skin affections, corns, piles, &c. No. 126,502; Aug. 26; v. 265; p. 631.
- Whitmore, William H., Cleveland, Ohio. Preparation for cleaning and restoring the luster to varnished surfaces. No. 128,202; Dec. 23; v. 269; p. 701.
- Whittemore Brothers, Corporation, Cambridge, Mass. Dressing for leather and articles made therefrom. Nos. 124,628-9; Feb. 25; v. 259; p. 775.
- Whittier Citrus Association, Whittier, Calif. Fresh citrus fruits. Nos. 126,807-8; Sept. 30; v. 266; pp. 738-9.
- Wichita Falls Motor Co., Wichita Falls, Tex. Tractors. No. 124,356; Feb. 4; v. 259; p. 179.
- Widen-Lord Tanning Company, Boston, Mass. Leathers. No. 124,913; Mar. 18; v. 260; p. 558.
- Widlar Co., Cleveland, Ohio. Coffee. No. 124,914; Mar. 18; v. 260; p. 558.
- Wieland, Ernest G., East New Market, Md. Salve for boils, cuts, wounds, burns, &c. No. 124,429; Feb. 11; v. 259; p. 381.
- Wiese-Rahn Mfg. Co., assignor to Wiese-Rahn Mfg. Co., Chicago, Ill. Cereal-beverage cooling and dispensing outfits. No. 124,357; Feb. 4; v. 259; p. 179.



## Alphabetical list of registrants of trade-marks—Continued.

- Wilcox & White Co., The, Meriden, Conn. Talking-machines, phonographs, records, and needles. No. 124,915; Mar. 18; v. 260; p. 558.
- Wilder Manufacturing Company, St. Louis, Mo. Talking-boards. No. 128,000; Dec. 16; v. 269; p. 544.
- Wilkins, Byron O., Jonesboro, Ark. Preparation for imparting flexibility to the hair. No. 124,630; Feb. 25; v. 259; p. 775.
- Willard Storage Battery Company, Cleveland, Ohio. Storage batteries and parts thereof. Nos. 125,772-3; June 10; v. 263; p. 328.
- William B. Tilghman Co., Salisbury, Md. Fertilizer. No. 125,590; May 27; v. 262; p. 644.
- William C. Johnson Candy Company, The, Cincinnati, Ohio. Chocolate candles. No. 124,974; Apr. 1; v. 261; p. 198.
- William Cail Bitmo Company, The, New York, N. Y. Ready-mixed paint and varnish. No. 126,245; Aug. 19; v. 265; p. 451.
- William Cluff Company, San Francisco, Calif. Certain named foods. No. 128,231; Dec. 30; v. 269; p. 881.
- William Etsweiler & Company, Philadelphia, Pa. Tanned-leather belting. No. 126,536; Sept. 16; v. 266; p. 445.
- William Hollins & Company Limited, London, England. Certain named women's garments. Nos. 125,446-7; May 20; v. 262; p. 475.
- William O. Fralley & Son, Lancaster, Pa. Tonic and digestive-system cleaner. No. 127,833; Dec. 9; v. 269; p. 388.
- William Penn Hotel Company, Pittsburgh, Pa. Cigars and cigarettes. No. 124,180; Jan. 14; v. 258; p. 446.
- William Schollhorn Company, The, New Haven, Conn. Pliers, nippers, wire-cutters, punches, &c. No. 127,553; Nov. 11; v. 268; p. 377.
- William Suckling & Sons, Birmingham, England. Certain named vehicles, parts, and accessories thereof. No. 124,478; Feb. 18; v. 259; p. 572.
- William T. Baker Inc., Jersey City, N. J. Sash-putties. No. 124,660; Mar. 11; v. 260; p. 385.
- William T. Baker, Inc., Jersey City, N. J. Sash-putties. Nos. 125,554-5; May 27; v. 262; p. 643.
- William T. Baker, Inc., Jersey City, N. J. Oil wall paints. No. 127,712; Dec. 2; v. 269; p. 185.
- William T. Mullikin Co., Inc., Philadelphia, Pa. Peanut-butter. No. 124,980; Apr. 1; v. 261; p. 198.
- Williams, Arthur A., Holliston, Mass. Men's and boys' leather boots and shoes. No. 127,301; Nov. 4; v. 268; p. 188.
- Williams Brush Co., Philadelphia, Pa. Tooth-brushes. No. 125,857; June 17; v. 263; p. 479.
- Williams Brush Co., Philadelphia, Pa. Tooth-brushes. No. 127,302; Nov. 4; v. 268; p. 188.
- Williams Chocolate Co., Scranton, Pa. Cough-drops. No. 126,975; Oct. 14; v. 267; p. 337.
- Williams Chocolate Co., Scranton, Pa. Candy. No. 127,799; Dec. 2; v. 269; p. 188.
- Williams, Daniel R., Pittsburgh, Pa. Medicinal eye treatment. No. 128,204; Dec. 23; v. 269; p. 701.
- Williams, Frank B., Dover, N. H. Side and cut lace-leather. No. 125,697; June 3; v. 263; p. 163.
- Williams, Frank B., Dover, N. H. Oak-tanned leather belting and cut lace-leather. No. 125,714; June 3; v. 263; p. 164.
- Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Certain named machinery and tools and parts thereof. No. 124,358; Feb. 4; v. 259; p. 179.
- Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Material-reducing machines, for crushing cement, raw materials, coal, &c. No. 127,554; Nov. 11; v. 268; p. 377.
- Williamson, James M., Pittsburgh, Pa. Pictorial correspondence-cards. No. 126,503; Aug. 26; v. 265; p. 631.
- Willis & Atwood, Chicago, Ill. Leather boots and shoes for men and women. No. 125,283; May 6; v. 262; p. 165.
- Willis Jason Kendricks Inc., Saratoga Springs, N. Y. Corks. No. 125,113; Apr. 8; v. 261; p. 408.
- Willmot Castle Company, Rochester, N. Y. Sterilizers adapted for laboratory and surgical work. No. 124,916; Mar. 18; v. 260; p. 558.
- Wilson & Co., Inc., Chicago, Ill. Fertilizers. No. 124,211; Jan. 21; v. 258; p. 641.
- Wilson & Co., Inc., Chicago, Ill. Oils and greases for burning, illuminating, and lubricating purposes. No. 124,430; Feb. 11; v. 259; p. 381.
- Wilson Company, Arcade, N. Y., and Mills, Mosquero, and Solano, N. Mex. Sandals, shoes, slippers. No. 127,555; Nov. 11; v. 268; p. 377.
- Wilson and Robert F. Holland, Connie H., Asheville, N. C. Preparation for the treatment of headache. No. 128,205; Dec. 23; v. 269; p. 701.
- Wilson, Franklin H., Dinube, Calif. Fresh fruits. No. 128,273; Dec. 30; v. 269; p. 882.
- Winkler, George, New York, N. Y. Tooth, hair, &c., brushes. No. 127,165; Oct. 21; v. 267; p. 483.
- Wineland, Benjamin C., Great Bend, Kans. Liniment for toothache, rheumatism, la grippe, pneumonia. No. 125,858; June 17; v. 263; p. 479.
- Winfield, John W., Wylam, Ala. Preparation for treatment of piles. No. 127,896; Dec. 9; v. 269; p. 390.
- Wingate Chemical Co. Limited, The, Montreal, Quebec, Canada. Local anesthetics. No. 125,715; June 3; v. 263; p. 164.
- Wingert, Martha S., Los Angeles, Calif. Dolls. No. 125,601; May 27; v. 262; p. 644.
- Winkler, Carl W., Chicago, Ill. Rubber heels for shoes. No. 125,318; May 6; v. 262; p. 166.
- Winsted Hardware Mfg. Co., The, Winsted, Conn. Certain named bath-room fixtures. No. 126,589; Sept. 16; v. 266; p. 447.
- Wire Wheel Corporation of America, Buffalo, N. Y. Vehicle road-wheels and parts thereof. No. 127,207; Oct. 21; v. 267; p. 484.
- Wire Wheel Corporation of America, Buffalo, N. Y. Vehicle road-wheels and parts thereof. No. 127,256; Oct. 28; v. 267; p. 644.
- Wireless Press Inc., New York, N. Y. Books, magazines, manuals, &c., printed monthly. No. 126,112; July 22; v. 264; p. 700.
- Wisconsin Butterine Co., Milwaukee, Wis. Oleomargarin. No. 125,376; May 13; v. 262; p. 310.
- Wisconsin Butterine Co., Milwaukee, Wis. Oleomargarin. No. 127,556; Nov. 11; v. 268; p. 377.
- Wisconsin Butterine Co., Milwaukee, Wis. Lard substitute. No. 127,557; Nov. 11; v. 268; p. 377.
- Wisconsin Textile By-Products Co., Sheboygan, Wis. Wiping-waste. No. 128,206; Dec. 23; v. 269; p. 701.
- Wise & Whitlock, Inc., New York, N. Y. Certain named clothing. No. 124,917; Mar. 18; v. 260; p. 558.
- Wiss, Albert, Peekskill, N. Y. Trading stamps or coupons. No. 126,113; July 22; v. 264; p. 700.
- Wittenberg-King Company, Portland, Oreg. Evaporated fruits and vegetables. No. 127,897; Dec. 9; v. 269; p. 390.
- Witwer Tate Grocery Co., Centralia, Ill. Canned tomatoes, peas, and corn. No. 125,114; Apr. 8; v. 261; p. 408.
- Wixon Spice Co., Chicago, Ill. Egg substitute. No. 124,918; Mar. 18; v. 260; p. 558.
- Wizard Foot Appliance Company, St. Louis, Mo. Certain named appliances for correcting foot deformities. No. 125,320; May 6; v. 262; p. 166.
- Wm. B. Threapleton's Sons, Philadelphia, Pa. Hosiery. No. 126,910; Oct. 7; v. 267; p. 179.
- Wm. Enders Manufacturing Company, Walden, N. Y. Refrigerators. No. 127,036; Oct. 21; v. 267; p. 478.
- Wm. Enders Manufacturing Company, Walden, N. Y. Paint, scrub, whitewash, &c., brushes. No. 127,037; Oct. 21; v. 267; p. 478.
- Wm. Enders Manufacturing Company, Walden, N. Y. Feet asphalt roofing. No. 127,607; Nov. 18; v. 268; p. 558.
- Wm. Enders Manufacturing Company, Walden, N. Y. Mule and horse collars. No. 127,735; Dec. 2; v. 269; p. 186.
- Wm. Enders Manufacturing Company, Walden, N. Y. Shotguns, rifles, gun-cases, &c. No. 127,736; Dec. 2; v. 269; p. 186.
- Wm. Filene's Sons Company, Boston, Mass. Certain named clothing. No. 124,527; Feb. 25; v. 259; p. 772.
- Wm. R. Warner & Company, Inc., New York, N. Y. Medicinal tonic remedial in convalescence. No. 126,104; July 22; v. 264; p. 700.
- Wm. T. Reynolds Co., Inc., Poughkeepsie, N. Y. Poultry and stock feeds. No. 127,294; Nov. 4; v. 268; p. 188.
- Wojcik, Stanley, Portland, Oreg. Medicine for rheumatism, catarrh, and gout. No. 125,552; May 20; v. 262; p. 478.
- Wolf, Edwin E., New York, N. Y. Blouses, shirt-waists, shirts, &c. No. 125,945; July 15; v. 264; p. 531.
- Wolf, Fred W., Chicago, Ill. Paper or periodical. No. 124,632; Feb. 25; v. 259; p. 775.
- Wolf, Jacob, New York, N. Y. Imitation pearls. No. 128,208; Dec. 23; v. 269; p. 701.
- Wolfe, Charles W., East Orange, N. J. Suits of outer wearing-apparel for men, women, and children. No. 127,558; Nov. 11; v. 268; p. 377.
- Wolfe, Charles W., East Orange, N. J. Suits, coats, blouses, and shirts of outer wearing-apparel. No. 128,207; Dec. 23; v. 269; p. 701.
- Wolverine Spice Company, Grand Rapids, Mich. Filling for pies, puddings, and deserts. No. 127,166; Oct. 21; v. 267; p. 483.
- Woman's National Magazine Co., Phoenix, Ariz., and Washington, D. C. Monthly magazine. No. 124,181; Jan. 14; v. 258; p. 446.
- Woman's National Magazine Co., Phoenix, Ariz., and Washington, D. C. Monthly magazine. No. 125,183; Apr. 15; v. 261; p. 627.
- Wonder Chemical Co., Sumner, Iowa. Hog remedy. No. 126,913; Oct. 7; v. 267; p. 180.
- Wonder Stone Co., Boston, Mass. Abrasive materials and tools. No. 126,504; Aug. 26; v. 265; p. 631.
- Wood, M. M., Kistler, W. Va. Hair-tonic. No. 125,551; May 20; v. 262; p. 478.
- Woodbury Shoe Company, Beverly, Mass. Rubber soles and heels. No. 127,559; Nov. 11; v. 268; p. 377.
- Woodrole Company, The, Oklahoma, Okla. Obstetrical packages. No. 125,602; May 27; v. 262; p. 644.
- World Film Corporation, New York, N. Y. Cinematographic films. No. 125,698; June 3; v. 263; p. 164.
- World Film Corporation, New York, N. Y. Cinematographic films. No. 126,226; July 29; v. 264; p. 862.



*Alphabetical list of registrants of trade-marks—Continued.*

- Wortendyke Manufacturing Co., Richmond, Va. Toilet-paper and paper towels. No. 125,184; Apr. 15; v. 261; p. 627.
- Wortendyke Manufacturing Company, Richmond, Va. Paper bags. No. 126,372; Aug. 19; v. 265; p. 455.
- Worthington Ball Company, The, Elyria, Ohio. Golf-balls. No. 127,168; Oct. 21; v. 267; p. 483.
- Worthington Ball Company, Elyria, Ohio. Golf-balls. No. 127,303; Nov. 4; v. 268; p. 188.
- Worthington & Raymond, Inc., New York, N. Y. Pliers, files, &c. No. 127,167; Oct. 21; v. 267; p. 483.
- Wright Company, Lamoni, Iowa. Medicinal product for treatment of diseases of fowls and swine. No. 127,551; Nov. 11; v. 268; p. 376.
- Wright, Macy, Philadelphia, Pa. Salted and unsalted nuts, candy. No. 124,182; Jan. 14; v. 258; p. 446.
- Wright, Vernon, Detroit, Mich. Chemical compound for removing or destroying soot. No. 126,227; July 29; v. 264; p. 862.
- Wyckoff, James L. R., North Woodbury, Conn. Shears and scissors. No. 125,263; Apr. 22; v. 261; p. 797.
- Wyckoff Knitting Company, The, Perry, N. Y. Men's and boys' balbriggan underwear. No. 125,115; Apr. 8; v. 261; p. 408.
- Yale Daily News, New Haven, Conn. Newspapers. No. 126,114; July 22; v. 264; p. 700.
- Yalowich Bros. Drug Co., Rochester, N. Y. Ointment for certain named ailments. No. 125,603; May 27; v. 262; p. 644.
- Yardley & Co., Limited, London, England. Perfumes. Nos. 124,183-4; Jan. 14; v. 258; p. 446.
- Yardley & Co., Limited, London, England. Perfumes. No. 124,807; Mar. 11; v. 260; p. 390.
- Yarnall-Waring Company, Philadelphia, Pa. Blow-off valves, pipe-joint clamps, &c. No. 126,809; Sept. 30; v. 266; p. 739.
- Yarnall-Waring Company, Philadelphia, Pa. Hardware and plumbing and steam-fitting supplies. No. 126,976; Oct. 14; v. 267; p. 337.
- Yarnall-Waring Company, Philadelphia, Pa. Recording-meters for liquids. No. 127,169; Oct. 21; v. 267; p. 483.
- Yarnall-Waring Company, Philadelphia, Pa. Recording-meters for liquids. No. 127,257; Oct. 28; v. 267; p. 644.
- Ye Olde Cheshire Cheese, Limited, London, England. Wines. No. 127,560; Nov. 11; v. 268; p. 377.
- Yeomans, Thomas, New York, N. Y. Combination hair-cutters and safety-razors. No. 125,543; May 20; v. 262; p. 478.
- York Mfg. Co., Saco, Me., and Boston, Mass. Gingham in the piece. No. 125,010; Apr. 1; v. 261; p. 199.
- Young Brothers, New York, N. Y. Men's hats. Nos. 126,115-16; July 22; v. 264; p. 700.
- Young, Edwin J., Wadsworth and Rittman, Ohio. Box-board containers for packaging rubber tires. No. 125,544; May 20; v. 262; p. 478.
- Young, Frank C., New Haven, Conn. Liniment for certain named diseases and ailments. No. 125,860; June 17; v. 263; p. 479.
- Youngstown Macaroni Co., Youngstown, Ohio. Canned fruits, vegetables, pork and beans. No. 124,066; Jan. 14; v. 258; p. 443.
- Youth Craft Company, Chicago, Ill. Certain named pharmaceutical preparations for toilet uses. No. 125,116; Apr. 8; v. 261; p. 408.
- Youth Craft Co., Chicago, Ill. Preparation for the relief of excessive perspiration. No. 126,117; July 22; v. 264; p. 700.
- Z. & S. Middy Co., New York, N. Y. Middy-blouses. No. 127,171; Oct. 21; v. 267; p. 483.
- Zadek Feldstein Co., Inc., New York, N. Y. Certain named toys. No. 126,373; Aug. 19; v. 265; p. 455.
- Zarparines, George, Sherman, Tex. Candy. No. 127,170; Oct. 21; v. 267; p. 483.
- Zarparines, George, Sherman, Tex. Candy. No. 127,207; Oct. 21; v. 267; p. 484.
- Zehnbaue, Charles W., Jersey City, N. J. Men's ties and cravats. No. 127,561; Nov. 11; v. 268; p. 377.
- Zelenko & Moskowitz, New York, N. Y. Cloaks, suits, dresses, skirts, outer waists. No. 125,117; Apr. 8; v. 261; p. 408.
- Zenite Metal Company, Indianapolis, Ind. Timers for internal-combustion-engine ignition systems. No. 126,374; Aug. 19; v. 265; p. 455.
- Zidell, William I., Los Angeles, Cal. Children's rompers and dresses. No. 124,633; Feb. 25; v. 259; p. 775.
- Zieve, Rimal, Minneapolis, Minn. Fruit and vegetable compound. No. 127,802; Dec. 2; v. 269; p. 188.
- Zimetbaum, Samuel, New York, N. Y. Chewing-gum. No. 125,011; Apr. 1; v. 261; p. 199.
- Zimmerman, William, Cedar Rapids, Iowa. Shampoo used in the treatment of the scalp and hair. No. 124,647; Mar. 4; v. 260; p. 197.
- Zinsmeister Co., The, Louisville, Ky. Overalls and work-shirts. No. 125,545; May 20; v. 262; p. 478.
- Zoes, Christ A., Chicago, Ill. Dressing for leather, shoes, and other leather articles. No. 125,377; May 13; v. 262; p. 810.



# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

- Alex Sheppard & Sons, Inc., Philadelphia, Pa. "Happy Thought." (For Pure Blended Coffee.) No. 21,202; Apr. 8; v. 261; p. 409.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Black Seeded Simpson." (For Lettuce-Seed.) No. 21,488; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Early Jersey Wakefield." (For Cabbage-Seed.) No. 21,489; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Big Boston." (For Lettuce-Seed.) No. 21,490; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Mammoth Red Rock." (For Cabbage-Seed.) No. 21,491; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Borecole." (For Kale-Seed.) No. 21,492; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Kentucky Wonder." (For Bean-Seed.) No. 21,493; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Burpee's Stringless." (For Bean-Seed.) No. 21,494; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Giant Pascal." (For Celery-Seed.) No. 21,495; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Improved Long Orange." (For Carrot-Seed.) No. 21,496; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Purple Top White Globe." (For Turnip-Seed.) No. 21,497; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "China Rose Winter." (For Radish-Seed.) No. 21,498; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Moss Curled." (For Endive-Seed.) No. 21,499; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Golden Self Blanching." (For Celery-Seed.) No. 21,500; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "White Plume." (For Celery-Seed.) No. 21,501; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Swiss Chard." (For Beet-Seed.) No. 21,502; Sept. 30; v. 266; p. 740.
- Alfred J. Brown Seed Co., Grand Rapids, Mich. "Ponderosa." (For Tomato-Seeds.) No. 21,503; Sept. 30; v. 266; p. 740.
- Alfred Putnam & Company, New York, N. Y. "Thurber Brand Asparagus." (For Asparagus.) No. 21,372; Aug. 5; v. 265; p. 143.
- Alfred Putnam & Company, New York, N. Y. "Windham Corn." (For Corn.) No. 21,373; Aug. 5; v. 265; p. 143.
- Alfred Putnam & Company, New York, N. Y. "Thurber's California Style Bartlett Pears." (For Pears.) No. 21,374; Aug. 5; v. 265; p. 143.
- Alfred Putnam & Company, New York, N. Y. "Extra Choice California Peaches Heavy Syrup." (For Peaches.) No. 21,375; Aug. 5; v. 265; p. 143.
- Ambs Brothers, Louisville, Ky. "Sage and Wildroots." (For a Hair-Tonic Preparation.) No. 21,376; Aug. 5; v. 265; p. 143.
- American Equipment Pants Company, Philadelphia, Pa. "American Equipment Pants Co. Unbreakable Seams. 'A New Pair if this one Fails.'" (For Men's Trousers.) No. 21,158; Feb. 25; v. 259; p. 776.
- American Pop Corn Company, Sioux City, Leeds, and Schaller, Iowa. "Jolly Time Pop Corn." (For Popcorn.) No. 21,222; Apr. 22; v. 261; p. 798.
- American Pop Corn Company, Sioux City, Leeds, and Schaller, Iowa. "Big Chief Pop Corn." (For Popcorn.) No. 21,223; Apr. 22; v. 261; p. 798.
- American Sea Green Slate Co., Granville, N. Y. "American-Vermont Sea Green Roofing Slate." (For Samples of Slate.) No. 21,144; Feb. 11; v. 259; p. 382.
- American Standard Food Association, Milwaukee, Wis. "Waukesha." (For Oleomargarin.) No. 21,179; Apr. 8; v. 261; p. 409.
- Anaheim Orange & Lemon Association, Anaheim, Calif. "Meritoria." (For Valencia's.) No. 21,377; Aug. 5; v. 265; p. 143.
- Anaheim Orange & Lemon Association, Anaheim, Calif. "Anaheim Gloriana." (For Extra Fancy Valencia's.) No. 21,378; Aug. 5; v. 265; p. 143.
- Anaheim Orange & Lemon Association, Anaheim, Calif. "Delicia." (For Oranges.) No. 21,379; Aug. 5; v. 265; p. 143.
- Anaheim Orange & Lemon Association, Anaheim, Calif. "Favorita." (For Oranges.) No. 21,380; Aug. 5; v. 265; p. 143.
- Anaheim Orange & Lemon Association, Anaheim, Calif. "Sonia." (For Valencia's.) No. 21,381; Aug. 5; v. 265; p. 143.
- Anglo-Californian Vineyards Ltd., Reedley, Cal. "Bluebird Brand." (For Fresh Grapes.) No. 21,111; Feb. 4; v. 259; p. 181.
- Anti-Pyorrhea Chemical Company, St. Louis, Mo. "Platite." (For Compositions for Fitting False Teeth.) No. 21,382; Aug. 5; v. 265; p. 143.
- Antidolor Manufacturing Co., The, Springville, N. Y. "Anti-Py-O." (For Dental Cream.) No. 21,588; Dec. 30; v. 269; p. 883.
- Arlington Cannery, Arlington, Calif. "Arlington." (For Canned Tomatoes.) No. 21,383; Aug. 5; v. 265; p. 143.
- Armour and Company, Chicago, Ill. "Sylvan Carnation Toilet Soap." (For Toilet Soap.) No. 21,280; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Sylvan Heliotrope Toilet Soap." (For Toilet Soap.) No. 21,281; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Natural Odor Sandalwood." (For Toilet Soap.) No. 21,282; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Natural Odor Heliotrope." (For Toilet Soap.) No. 21,283; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Sylvan Rose Toilet Soap." (For Toilet Soap.) No. 21,284; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Natural Odor Rose." (For Toilet Soap.) No. 21,285; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Natural Odor Carnation." (For Toilet Soap.) No. 21,286; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Sylvan Lilac Toilet Soap." (For Toilet Soap.) No. 21,287; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Natural Odor Lilac." (For Toilet Soap.) No. 21,288; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Sylvan Sandalwood Toilet Soap." (For Toilet Soap.) No. 21,289; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Natural Odor Violet." (For Violet Soap.) No. 21,290; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Sylvan Violet Toilet Soap." (For Toilet Soap.) No. 21,291; July 1; v. 264; p. 154.
- Armour and Company, Chicago, Ill. "Lata Blanca." (For a Preparation Consisting of Pork Sausage and Cereal Preserved in Lard.) No. 21,384; Aug. 5; v. 265; p. 143.
- Armstrong, Julian, Chicago, Ill. "Valu Gage Field Fencing, Number 9 Series." (For Woven-Wire Field-Fencing.) No. 21,168; Mar. 11; v. 260; p. 391.
- Armstrong, Julian, Chicago, Ill. "Valu Gage Field Fencing, Number 11 Series." (For Woven-Wire Field-Fencing.) No. 21,169; Mar. 11; v. 260; p. 391.
- Armstrong, Julian, Chicago, Ill. "Valu Gage Field Fencing, Number 12 Series." (For Woven-Wire Field-Fencing.) No. 21,170; Mar. 11; v. 260; p. 391.
- Armstrong, Julian, Chicago, Ill. "Valu Gage Field Fencing, Number 11 Series." (For Woven-Wire Field-Fencing.) No. 21,180; Apr. 8; v. 261; p. 409.
- Auerbach, Louis, Cleveland, Ohio. "Million \$ Hair Tonic." (For Hair-Tonic.) No. 21,385; Aug. 5; v. 265; p. 143.
- Auto Components Inc., Chicago, Ill. "Red Star Timer for Fords." (For Timers.) No. 21,181; Apr. 8; v. 261; p. 409.
- Baker, A. F., San Diego, Calif. "Gold Metal Panama Soap." (For Soap.) No. 21,589; Dec. 30; v. 269; p. 883.
- Baker, Henry A., Puyallup, Wash. "'Mountain View' Brand." (For Canned Red Raspberries.) No. 21,173; Mar. 18; v. 260; p. 559.
- Baker, J. Harve, Portales, N. Mex. "Baker's Foot Ease." (For Foot-Powder.) No. 21,293; July 1; v. 264; p. 154.
- Baker Packing Company, Chicago, Ill. "Delicia, 'The Name Tells.'" (For Corned Beef.) No. 21,386; Aug. 5; v. 265; p. 143.
- Bates, Herbert B., Canton, Ohio. "Maple Crest." (For Butter.) No. 21,235; May 20; v. 262; p. 479.



- Beach Leather Company, The, Coshocton, Ohio. "Beach's 'All Leather' Pocket-Books, 'Best for Your Money.'" (For Pocket-Books.) No. 21,236; May 20; v. 262; p. 479.
- Beamon, Jeffords & Beamon Co., Los Angeles, Calif. "Stay There." (For Hair-Tonic.) No. 21,224; Apr. 22; v. 261; p. 798.
- Becker, Smith & Page, Inc., Philadelphia, Pa. "Crex-O-Meal." (For Wall-Paper.) No. 21,115; Feb. 4; v. 259; p. 181.
- Bee Bee Confection Co., The, Dayton, Ohio. "Juicy Fruit." (For Non-Alcoholic Beverages.) No. 21,387; Aug. 5; v. 265; p. 143.
- Bell, Claude A., Lowell, Mass. "Harvard Bronchial Syrup." (For Bronchial Syrup.) No. 21,294; July 1; v. 264; p. 154.
- Bell, Claude A., Lowell, Mass. "Bell's Sarsaparilla." (For Sarsaparilla.) No. 21,295; July 1; v. 264; p. 154.
- Bell, Claude A., Lowell, Mass. "Bell's Extract of Spices." (For Extract of Spices.) No. 21,296; July 1; v. 264; p. 154.
- Bell, Claude A., Lowell, Mass. "Bell's Lung Balsam." (For Lung-Balsam.) No. 21,297; July 1; v. 264; p. 154.
- Bencoe Exporting & Importing Co., Inc., New York, N. Y. "Bencoe Brand Sweetened Condensed Milk." (For Canned Condensed Milk.) No. 21,209; Apr. 15; v. 261; p. 628.
- Benedict, J. F., Portsmouth, Ohio. "Spot Slide." (For Garment-Spotter.) No. 21,388; Aug. 5; v. 265; p. 143.
- Berriault, Joseph B., Seattle, Wash. "Berriaults Hair Bitters." (For a Hair-Tonic.) No. 21,518; Oct. 14; v. 267; p. 339.
- Betson Plastic Fire Brick Co., Rome, N. Y. "Betson's Pioneer Hi-Heat Cement For Laying Up High Grade Fire Brick." (For Betson's No. 3 Hi-Heat Cement.) No. 21,116; Feb. 4; v. 259; p. 181.
- Betsy Ross Candy Shops, Indianapolis, Ind. "Betsy Ross Candies." (For Candy.) No. 21,298; July 1; v. 264; p. 154.
- Bitrose Company, Milwaukee, Wis. "Bitrose Milkees." (For Candy.) No. 21,117; Feb. 4; v. 259; p. 181.
- Blousemakers, Inc., The, New York, N. Y. "Mirro-Crepe." (For Blouses.) No. 21,390; Aug. 5; v. 265; p. 143.
- Blousemakers, Inc., The, New York, N. Y. "Shado-Crepe." (For Blouses.) No. 21,391; Aug. 5; v. 265; p. 143.
- Boedeker & Co., Cincinnati, Ohio. "Boedeker's Superior Grape-Win." (For a Beverage.) No. 21,392; Aug. 5; v. 265; p. 143.
- Bokel, J. Anton, Baltimore, Md. "Cherry Pepsin Syrup." (For Beverage Purposes.) No. 21,505; Oct. 7; v. 267; p. 181.
- Bonner, Charles G., Fresno, Calif. "Holly." (For Raisins.) No. 21,351; July 8; v. 264; p. 351.
- Braude, Harry, Boston, Mass. "Taylor's Liquid Foot-Remedy." (For Taylor's Liquid Foot Remedy.) No. 21,159; Feb. 25; v. 259; p. 776.
- Brockton Rand Company, Brockton, Mass. "Barbour Grooved Endless Welting." (For Welting.) No. 21,300; July 1; v. 264; p. 154.
- Buckley Macaroni Company, Inc., Kensington, Conn. "International Brand." (For Macaroni.) No. 21,393; Aug. 5; v. 265; p. 143.
- Buhr, Pfaff & Co., Cincinnati, Ohio. "Sunset Chocolates." (For Chocolates.) No. 21,394; Aug. 5; v. 265; p. 143.
- Buhr, Pfaff & Co., Cincinnati, Ohio. "Virginia Chocolates." (For Chocolates.) No. 21,395; Aug. 5; v. 265; p. 143.
- Burger, Iwan, New York, N. Y. "Patria." (For Food Products.) No. 21,279; June 17; v. 263; p. 480.
- Burke, Edward W., Lynn, Mass. "Creme Vegetal." (For Shaving-Cream.) No. 21,584; Dec. 9; v. 269; p. 391.
- C. E. and B. M. De Croes, Indianapolis, Ind. "De Croes Hair Stimulant and Dandruff Remedy." (For a Hair-Tonic.) No. 21,307; July 1; v. 264; p. 154.
- C. F. Hickok Co., The, Sidney, Ohio. "Hickok's Chocolate Brittle Chips." (For Chocolate Brittle Chips.) No. 21,124; Feb. 4; v. 259; p. 181.
- C. F. Hickok Co., The, Sidney, Ohio. "Hickok's Chocolate Brittle." (For Chocolate Brittle.) No. 21,125; Feb. 4; v. 259; p. 181.
- C. F. Sauer Company, Richmond, Va. "Sauers F. F. V." (For Flavoring Extracts and Flavors.) No. 21,552; Oct. 14; v. 267; p. 339.
- California Washing Powder Co., Inc., The, San Diego, Calif. "California Tip-Top Washing Powder." (For Washing-Powder.) No. 21,556; Oct. 21; v. 267; p. 485.
- Cannard, B., Los Angeles, Calif. "Dr. Cannard's Futrelief Foot Lotion." (For a Foot-Lotion.) No. 21,352; July 8; v. 264; p. 351.
- Caravel Company, Inc., New York, N. Y. "Caravel Company, Inc." (For Chemicals and Dyestuffs.) No. 21,174; Mar. 18; v. 260; p. 559.
- Carlton Co., The, New York, N. Y. "Baby Bunting's Castile Soap." (For Castile Soap.) No. 21,237; May 20; v. 262; p. 479.
- Caroline Company, The. (See Carroll, Thomas L., assignor.)
- Carroll, Thomas L., Chicago, Ill., assignor, by mesne assignments, to The Carolene Company. "Carolene." (For a Compound of Refined Nut-Oils and Evaporated Skimmed Milk.) No. 21,353; July 8; v. 264; p. 351.
- Cee & Vee Products Co., Buffalo, N. Y. "Kant-Rust Spring Lubricant." (For Lubricators.) No. 21,396; Aug. 5; v. 265; p. 143.
- Celro-Kola Co., Portland, Oreg. "Mint-U-Lip." (For Syrup.) No. 21,354; July 8; v. 264; p. 361.
- Cereal Products Refining Company, San Francisco, Calif. "Cereal Malt Syrup." (For a Cereal Malt Syrup.) No. 21,590; Dec. 30; v. 269; p. 883.
- Charles F. Moyer, P. D., Slatington, Pa. "Men-Sal." (For a Preparation for Corns and Calli.) No. 21,538; Oct. 14; v. 267; p. 339.
- Charles N. Miller Company, Boston, Mass. "Mary James Dearos." (For Candy.) No. 21,397; Aug. 5; v. 265; p. 143.
- Charles The Fifth Cigar Co., New York, N. Y. "Charles The Fifth." (For Cigars.) No. 21,591; Dec. 30; v. 269; p. 883.
- Chas. Leutz & Co., Jefferson, Mo. "Famous Red Arrow No. 32." (For Cigars.) No. 21,600; Dec. 30; v. 269; p. 883.
- Chateau Bottling Co., New York, N. Y. "Chateau." (For Soft Drinks.) No. 21,301; July 1; v. 264; p. 154.
- Christian Moerlein Brewing Company, The, Cincinnati, Ohio. "Moer-lo." (For a Non-Intoxicating Cereal Beverage.) No. 21,302; July 1; v. 264; p. 154.
- Clay, James N., Amsterdam, N. Y. "J. N. C." (For Twine.) No. 21,118; Feb. 4; v. 259; p. 181.
- Coal Conservation Company, Boston, Mass. "3 C Coal Saver." (For a Substance for Treating Coal.) No. 21,573; Nov. 4; v. 268; p. 189.
- Cohen, Mann & Kahn, Los Angeles, Calif. "Liberty." (For Cantaloups.) No. 21,398; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Atlanta, Ga. "Florida Mellow Fruit Chewing Gum." (For Chewing-Gum.) No. 21,399; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Atlanta, Ga. "Florida Spearmint Chewing Gum." (For Chewing-Gum.) No. 21,400; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Newport, Ky. "White Lily Chewing Gum." (For Chewing-Gum.) No. 21,401; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Newport, Ky. "Spearmint Chewing Gum." (For Chewing-Gum.) No. 21,402; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Newport, Ky. "Pepper-Mint Chewing Gum." (For Chewing-gum.) No. 21,403; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Newport, Ky. "Kentucky Peppermint Chewing Gum." (For Chewing-Gum.) No. 21,404; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Newport, Ky. "Kentucky Spearmint Chewing Gum." (For Chewing-Gum.) No. 21,405; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Newport, Ky. "Kentucky Fruit Frappe Chewing Gum." (For Chewing-Gum.) No. 21,406; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Atlanta, Ga. "Florida Peppermint Chewing Gum." (For Chewing-Gum.) No. 21,407; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Newport, Ky. "Spearmint Chewing Gum." (For Chewing-Gum.) No. 21,408; Aug. 5; v. 265; p. 143.
- Colker, Abraham, Washington, D. C. "Michigan Spicy Fruit Chewing Gum." (For Wrappers and Boxes Containing Chewing-Gum.) No. 21,519; Oct. 14; v. 267; p. 333.
- Conover, Harvey, Chicago, Ill. "Mother Goose Bread." (For Bread.) No. 21,211; Apr. 15; v. 261; p. 628.
- Conrad, Chas. F., New York, N. Y. "Liberty Cigarette." (For Cigarettes.) No. 21,098; Jan. 28; v. 258; p. 812.
- Conrad, Chas. F., New York, N. Y. "Liberty Cigar." (For Cigars.) No. 21,119; Feb. 4; v. 259; p. 181.
- Cook & McKenzie, Monticello, Calif. "Quail." (For Fresh Pears.) No. 21,323; May 20; v. 262; p. 479.
- Cook, Sam R. "Bone Dry Gen-U-Wine (Genuine)." (For a Soft Drink.) No. 21,278; May 27; v. 262; p. 644.
- Corkran, Hill & Co. Inc., Baltimore, Md. "Orange Brand." (For Oleomargarin.) No. 21,504; Sept. 30; v. 266; p. 740.
- Crescent Broom Company, Inc., New Orleans, La. "Eagle and Crescent." (For Brooms and Mops.) No. 21,239; May 20; v. 262; p. 479.
- Crutchfield & Woolfolk, Pittsburgh, Pa. "Cactus Brand Cantaloups." (For Cantaloups.) No. 21,304; July 1; v. 264; p. 154.
- Crutchfield & Woolfolk, Pittsburgh, Pa. "Yucca Brand Pink Meat Cantaloups." (For Cantaloups.) No. 21,409; Aug. 5; v. 265; p. 143.
- Cumberland Macaroni Mfg Co., Cumberland, Md. "L'Aquila Alpina Brand." (For Semolina Macaroni.) No. 21,303; July 1; v. 264; p. 154.
- Curtiss Candy Co., Chicago, Ill. "Chocolate Fruit." (For Chocolate Candy.) No. 21,225; May 13; v. 262; p. 311.
- Curtiss Candy Co., Chicago, Ill. "Kandy Kake." (For Candy.) No. 21,226; May 13; v. 262; p. 311.



## Alphabetical list of registrants of labels—Continued.

- Curtiss Candy Co., Chicago, Ill. "Honey Comb Chip." (For Honey Comb Chip Candy.) No. 21,227; May 13; v. 262; p. 311.
- Curtiss Candy Co., Chicago, Ill. "Jack-O-Lantern." (For Chocolate Fruit Slice Candy.) No. 21,228; May 13; v. 262; p. 311.
- Curtiss Candy Co., Chicago, Ill. "Polar Bar." (For Candy-Bars.) No. 21,229; May 13; v. 262; p. 311.
- Curtiss Candy Co., Chicago, Ill. "Maple Nut Bar." (For Nut-Bar Candy.) No. 21,230; May 13; v. 262; p. 311.
- Curtiss Candy Co., Chicago, Ill. "Big Bite Chocolate." (For Chocolate Candy.) No. 21,231; May 13; v. 262; p. 311.
- Curtiss Candy Co., Chicago, Ill. "Marsh-O-Nut Dipp." (For Candy.) No. 21,232; May 13; v. 262; p. 311.
- Curtiss Candy Co., Chicago, Ill. "Curtiss Peanut Bar." (For Peanut Candy.) No. 21,233; May 13; v. 262; p. 311.
- Curtiss Candy Co., Chicago, Ill. "Jolly Jacks Peanut Bar." (For Chocolate Candy.) No. 21,234; May 13; v. 262; p. 311.
- Czalgoszewski, Joseph F., Chicago, Ill. "Liberty Bluing." (For Bluing.) No. 21,305; July 1; v. 264; p. 154.
- D. Auerbach & Sons, New York, N. Y. "Candy Headquarters." (For Candy.) No. 21,113; Feb. 4; v. 259; p. 181.
- D. Auerbach & Sons, New York, N. Y. "Auerbach Finest Lemon Drops." (For Candy.) No. 21,292; July 1; v. 264; p. 154.
- Davis & Geck, Inc., Brooklyn, N. Y. "Sterile Surgical Sutures." (For Sterile Surgical Sutures and Ligatures.) No. 21,306; July 1; v. 264; p. 154.
- Davis & Geck, Inc., Brooklyn, N. Y. "Trench Tubes." (For Trench-Tubes.) No. 21,410; Aug. 5; v. 265; p. 143.
- De Jesús, José, New York, N. Y. "De Preven." (For a Medicinal Preparation for Treatment of Malaria.) No. 21,186; Apr. 8; v. 261; p. 409.
- Dead Shot Chemical Company, Oklahoma, Okla. "Dead Shot Non-Poisonous Insecticide." (For a Powder for Killing and Destroying All Kinds of Insects.) No. 21,411; Aug. 5; v. 265; p. 143.
- Dead Shot Chemical Company, Oklahoma, Okla. "Dead Shot Rat Killer." (For a Powder for Killing and Destroying Rats.) No. 21,412; Aug. 5; v. 265; p. 144.
- Dead-Shot Chemical Company, Oklahoma, Okla. "Dead-Shot Non-Poisonous Insecticide." (For Insect-Powder.) No. 21,574; Nov. 4; v. 268; p. 189.
- Decatur Brewing Co., Decatur, Ill. "Blue Ribbon." (For Malt Extract.) No. 21,520; Oct. 14; v. 267; p. 339.
- Dechant, William H., Toledo, Ohio. "Champion." (For Hair-Tonic.) No. 21,308; July 1; v. 264; p. 154.
- Dexter, Eugene A., Springfield, Mass. "Dexter's Mother's Bread." (For Bread.) No. 21,413; Aug. 5; v. 265; p. 144.
- Dexter, Eugene A., Springfield, Mass. "Dexter's Mother's Bread." (For Bread.) No. 21,592; Dec. 30; v. 269; p. 883.
- Diffee, Sarah J., Meeker, Okla. "Sunshine." (For Soap Powders.) No. 21,521; Oct. 14; v. 267; p. 339.
- Donald Company, The, Grand Island, Nebr. "Rob Roy." (For Coffee.) No. 21,355; July 8; v. 264; p. 351.
- Donald Company, The, Grand Island, Nebr. "Rob Roy." (For Tea.) No. 21,414; Aug. 5; v. 265; p. 144.
- Dorothy Dodd Shoe Company, Boston, Mass. "Gold Medal." (For Boots and Shoes.) No. 21,356; July 8; v. 264; p. 351.
- Dr. Sweet Root Beer Company, The, Boston, Mass. "Dr. Sweet's Original Root Beer—Delicious, Wholesome—Refreshing—Satisfying." (For Root-Beer.) No. 21,135; Feb. 4; v. 259; p. 181.
- E. Popper & Co., Inc., New York, N. Y. "Popper's Ten." (For Cigars.) No. 21,106; Jan. 28; v. 258; p. 812.
- E. J. Brach & Sons, Chicago, Ill. "Fruit-Aids." (For Cartons for Hard Candy.) No. 21,145; Feb. 11; v. 259; p. 382.
- E. J. Brach & Sons, Chicago, Ill. "Orange-Aids." (For Cartons for Hard Candy.) No. 21,146; Feb. 11; v. 259; p. 382.
- E. J. Brach & Sons, Chicago, Ill. "Butter-Aids." (For Cartons for Hard Candy.) No. 21,147; Feb. 11; v. 259; p. 382.
- Earl Fruit Company of the Northwest, Spokane, Wash. "Snow Crest." (For Pears.) No. 21,522; Oct. 14; v. 267; p. 339.
- Earley, Alice W., Los Angeles, Calif. "Areal Hair Remover." (For a Hair-Remover.) No. 21,557; Oct. 21; v. 267; p. 485.
- Easton, Gilbert J., Newark, N. J. "Easton's Mayonnaise." (For Mayonnaise.) No. 21,182; Apr. 8; v. 261; p. 409.
- Edson Brothers, Philadelphia, Pa. "De Luxe." (For Oleomargarin.) No. 21,415; Aug. 5; v. 265; p. 144.
- Eisenstadt Mfg. Co., St. Louis, Mo. "Madonna." (For Wrist-Rosary.) No. 21,240; May 20; v. 262; p. 479.
- El Reno Wholesale Grocery Co., Oklahoma, Okla. "Over-The-Top." (For Coffee.) No. 21,309; July 1; v. 264; p. 154.
- Embourg Textile Co., Inc., New York, N. Y. "Towels That Keep The Whole World Dry." (For Towels.) No. 21,585; Dec. 9; v. 269; p. 391.
- Empire Bottling Works, El Paso, Tex. "Broncho The Drink With a Kick." (For a Non-Alcoholic Beverage.) No. 21,357; July 8; v. 264; p. 351.
- Etter, Charles E., Hartsville, Ohio. "Etter's Goltre Remedy." (For Goiter Remedy.) No. 21,241; May 20; v. 262; p. 479.
- Eye Brand Confectionery, Inc., Brooklyn, N. Y. "Lucy Lops." (For Candies.) No. 21,523; Oct. 14; v. 267; p. 339.
- Eye Brand Confectionery, Inc., Brooklyn, N. Y. "Eye Brand." (For Nut Chocolate Kisses.) No. 21,593; Dec. 30; v. 269; p. 883.
- F. B. Booth Co., San Francisco, Calif. "Comet." (For Canned Sardines.) No. 21,299; July 1; v. 264; p. 154.
- Falk Company, Pittsburgh, Pa. "Falk American Potato Flour." (For Potato-Flour.) No. 21,506; Oct. 7; v. 267; p. 181.
- Federal Snap Fastener Corporation, New York, N. Y. "Finery Fasteners." (For Snap-Fasteners.) No. 21,148; Feb. 11; v. 259; p. 382.
- Federal Snap Fastener Corporation, New York, N. Y. "Twinty Snaps, Two Parts with But a Single Snap." (For Snap-Fasteners.) No. 21,149; Feb. 11; v. 259; p. 382.
- Federal Snap Fastener Corporation, New York, N. Y. "Harmony Snap Fastener Dispers Dressing Discords." (For Snap-Fasteners.) No. 21,242; May 20; v. 262; p. 479.
- Fernald, Carl H., Chicago, Ill. "Electrox." (For a Silver-Cleaning Preparation.) No. 21,120; Feb. 4; v. 259; p. 181.
- Fingl, Anton W., Chicago, Ill. "Goose line." (For Medicinal Preparation.) No. 21,594; Dec. 30; v. 269; p. 883.
- Fischer, A. C., Chicago, Ill. "Servicised." (For Roofing and other Building Materials.) No. 21,244; May 20; v. 262; p. 479.
- Fitzpatrick Bros., Chicago, Ill. "Cecho Slovak Family Soap." (For Soap.) No. 21,183; Apr. 8; v. 261; p. 409.
- Fitzpatrick Bros., Chicago, Ill. "Economy." (For a Detergent Washing Compound.) No. 21,243; May 20; v. 262; p. 479.
- Florence Manufacturing Company, Northampton, Mass. "Pro-phy-lactic Penetrator Hair Brush." (For Hair-Brushes.) No. 21,416; Aug. 5; v. 265; p. 144.
- Food Products Co., The, Binghamton, N. Y. "Egg Cream." (For Egg Substitute.) No. 21,310; July 1; v. 264; p. 154.
- Franklin Baker Company, The, Philadelphia, Pa. "Baker's Coconut." (For Packaged Coconut.) No. 21,245; May 20; v. 262; p. 479.
- Franklin Clothing Mfg. Co., St. Louis, Mo. "Franklin Fashions." (For Men's and Boys' Outer Garments.) No. 21,184; Apr. 8; v. 261; p. 409.
- Franklin Products Company, Stapleton, N. Y. "Franklin's Original—Snow Flake, 'The Mystic Washing Tablet.'" (For "The Mystic Washing Tablet.") No. 21,175; Mar. 18; v. 260; p. 559.
- Freedman, Louis J., Baltimore, Md. "Victory Boys' Wash Suits." (For Boys' Wash-Suits.) No. 21,311; July 1; v. 264; p. 154.
- Frich & Mansell, New York, N. Y. "All-(efanem)-Wool." (For Sponges for Automobile-Washing.) No. 21,212; Apr. 15; v. 261; p. 628.
- Frisch, Emile, Chicago, Ill. "Bread Wrapper." (For Bread.) No. 21,246; May 20; v. 262; p. 479.
- G. Washington Coffee Refining Co., New York and Brooklyn, N. Y. "G Washington's Milkcoffee." (For a Combination of Coffee, Milk, and Sugar.) No. 21,167; Feb. 25; v. 259; p. 776.
- Gale-Evans, Company, Inc., Minneapolis, Minn. "Gale Cleanser." (For a Cleanser.) No. 21,575; Nov. 4; v. 268; p. 189.
- Gardner, Henry A., Washington, D. C. "Save The Surface." (For Paints and Varnishes.) No. 21,576; Nov. 4; v. 268; p. 189.
- Garland Co., The, Cleveland, Ohio. "Permanite." (For Glazing Compounds.) No. 21,312; July 1; v. 264; p. 154.
- Garm, Dr. Roy H., Beardstown, Ill. "Pepalac." (For Medicine.) No. 21,586; Dec. 9; v. 269; p. 391.
- General Baking Company, New York, N. Y. "Mr. Lowe's Special True Bread." (For Bread.) No. 21,150; Feb. 11; v. 259; p. 382.
- General Candy Co., Milwaukee, Wis. "Brunswick Chocolates." (For Chocolates.) No. 21,417; Aug. 5; v. 265; p. 144.
- General Fruit Syrup Co., Baltimore, Md. "Gen Co Brand." (For Crushed Fruits—Namely, Raspberry.) No. 21,424; Aug. 5; v. 265; p. 144.
- George Borgfeldt & Co., New York, N. Y. "Movie." (For Building-Blocks and Construction Toys.) No. 21,419; Aug. 5; v. 265; p. 144.
- George W. Blabon Company, The, Philadelphia, Pa. "Blabon Art Linoleums." (For Linoleums.) No. 21,114; Feb. 4; v. 259; p. 181.
- George W. Blabon Company, The, Philadelphia, Pa. "Blabon Art Linoleums." (For Linoleums.) No. 21,418; Aug. 5; v. 265; p. 144.



- Glenn, William B., New York, N. Y. "Par." (For Cigarettes.) No. 21,313; July 1; v. 264; p. 154.
- Goldberg, David N., Chicago, Ill. "Vanity Fair." (For a Non-Alcoholic Beverage.) No. 21,420; Aug. 5; v. 265; p. 144.
- Goldberg, David N., Chicago, Ill. "Orange Smack." (For Non-Intoxicating Beverage.) No. 21,524; Oct. 14; v. 267; p. 339.
- Golland, Morris, New York, N. Y. "Ford Overcoat." (For Men's Overcoats.) No. 21,425; Aug. 5; v. 265; p. 144.
- Gradiaz-Annis & Co., Inc., New York, N. Y. "Don Julian." (For Cigars.) No. 21,423; Aug. 5; v. 265; p. 144.
- Greensburg Brewing Company, Greensburg, Pa. "White Label." (For Non-Intoxicating Beverages.) No. 21,421; Aug. 5; v. 265; p. 144.
- Gress, Lloyd M., Bridgeport, Conn. "Fluno Prophylactics." (Prevention Better than Cure.) (For a Prophylactic.) No. 21,525; Oct. 14; v. 267; p. 339.
- Griffin, Madam M. L., West Palm Beach, Fla. "Indian Sage O Hair Grower." (For Indian Sage O Hair-Grower.) No. 21,248; May 20; v. 262; p. 479.
- Grivas, John B., Chicago, Ill. "Grivas Special Sauce." (For Sauce.) No. 21,422; Aug. 5; v. 265; p. 144.
- Guess Company, Vidalia, Ga. "Guess." (For a Soft Drink.) No. 21,314; July 1; v. 264; p. 154.
- Gurney, Edmund, New York, N. Y. "Perfect Sure-Fit Fastener." (For Snap-Buttons or Garment-Fasteners.) No. 21,426; Aug. 5; v. 265; p. 144.
- H. G. Prince & Co., Oakland, Calif. "Tommy Tucker." (For Canned Peaches.) No. 21,582; Nov. 4; v. 268; p. 189.
- H. W. Johns-Manville Company, New York, N. Y. "Johns-Manville Akousto-Lite Fabric Coating." (For Fabric Coating.) No. 21,577; Nov. 4; v. 268; p. 189.
- Halabi, Vladimir N., Brooklyn, N. Y. "Veratone." (For Elixir Veratone Compound.) No. 21,123; Feb. 4; v. 259; p. 181.
- Hammer & Co., San Francisco, Calif. "Eagle." (For Gasolene.) No. 21,427; Aug. 5; v. 265; p. 144.
- Hammer & Co., San Francisco, Calif. "Eagle." (For Kerosene.) No. 21,428; Aug. 5; v. 265; p. 144.
- Hammer & Co., San Francisco, Calif. "Eagle." (For Olive-Oil.) No. 21,429; Aug. 5; v. 265; p. 144.
- Hammer & Co., San Francisco, Calif. "Eagle." (For Salad-Oil.) No. 21,430; Aug. 5; v. 265; p. 144.
- Hammer & Co., San Francisco, Calif. "Eagle." (For Lubricating-Oil.) No. 21,558; Oct. 21; v. 267; p. 485.
- Hammer & Co., San Francisco, Calif. "Eagle." (For Supreme Quality Hops.) No. 21,559; Oct. 21; v. 267; p. 485.
- Harbor City Canning Co., Los Angeles, Calif. "Bonded." (For Canned Apricots.) No. 21,595; Dec. 30; v. 269; p. 883.
- Harbor City Canning Company, Los Angeles and Harbor City, Calif. "Surety." (For Canned Apricots.) No. 21,596; Dec. 30; v. 269; p. 883.
- Harter Candy Co., The, Toledo, Ohio. "Sweetheart Confections." (For Confections.) No. 21,507; Oct. 7; v. 267; p. 181.
- Hedges-Buck Company, Stockton, Calif. "Hedges Fancy Blend Coffee." (For Coffee.) No. 21,432; Aug. 12; v. 265; p. 303.
- Herp, Henry C., Louisville, Ky. "Shawnee Liver Pills." (For Liver-Pills.) No. 21,161; Feb. 25; v. 259; p. 776.
- Herrero Brothers, San Francisco, Cal. "La Bella Andaluza." (For Smoking-Tobacco.) No. 21,151; Feb. 11; v. 259; p. 382.
- Hertz & Williams, Santa Cruz, Cal. "X-Z-Ma-Kure." (For a Remedy for Eczema, Poison-Oak, and All Kindred Skin Diseases.) No. 21,126; Feb. 4; v. 259; p. 181.
- Herzog, M., New York, N. Y. "Jannetta." (For Hair-Nets.) No. 21,152; Feb. 11; v. 259; p. 382.
- Hinkley-Beach Canning Co., Burbank, Cal. "Burbank." (For Canned Tomatoes.) No. 21,099; Jan. 28; v. 258; p. 812.
- Hotel Grunewald Co., Ltd., The, New Orleans, La. "Café-Nola (Brulo)." (For a Spicy Drink.) No. 21,597; Dec. 30; v. 269; p. 883.
- Howard & Casey Co., Mount Vernon, Ill. "Scout." (For Coffee.) No. 21,431; Aug. 12; v. 265; p. 303.
- Howard, Robert F., Los Angeles and East San Pedro, Cal. "Parex." (For Canned Sardines.) No. 21,102; Jan. 28; v. 258; p. 812.
- Hoye, Stephen M., New York, N. Y. "Hoye's Liberty Tea and Sugar Tablet." (For "Mate" Tea and Sugar Tablets.) No. 21,213; Apr. 15; v. 261; p. 628.
- Hoye, Stephen M., New York, N. Y., assignor to Ka-Zu Beverage Co. Inc. "Victory Punch." (For Victory Punch Tablets.) No. 21,433; Aug. 12; v. 265; p. 303.
- Hudson County Tobacco Co., Jersey City, N. J. "84." (For Cigars and Tobacco.) No. 21,434; Aug. 12; v. 265; p. 303.
- Huff, Charles L., Philadelphia, Pa. "Mail Pure Tissue Toilet Paper." (For Toilet-Paper.) No. 21,526; Oct. 14; v. 267; p. 339.
- Huff, Charles L., Philadelphia, Pa. "New Era Crepe Toilet Paper." (For Toilet-Paper.) No. 21,527; Oct. 14; v. 267; p. 339.
- Huff, Charles L., Philadelphia, Pa. "Export Crepe Toilet Paper." (For Toilet-Paper.) No. 21,528; Oct. 14; v. 267; p. 339.
- Huff, Charles L., Philadelphia, Pa. "Marine Crepe Toilet Paper." (For Toilet-Paper.) No. 21,529; Oct. 14; v. 267; p. 339.
- Huff, Charles L., Philadelphia, Pa. "Aero Crepe Toilet Paper." (For Toilet-Paper.) No. 21,530; Oct. 14; v. 267; p. 339.
- Incarbone, Mario, New York, N. Y. "Bloom of Youth." (For a Facial Liquid Rouge.) No. 21,436; Aug. 12; v. 265; p. 303.
- Indian Head Products Corporation, Buffalo, N. Y. "Iroquois Indian Head." (For a Non-Intoxicating Beverage.) No. 21,437; Aug. 12; v. 265; p. 303.
- Iroquois Beverage Co., Buffalo, N. Y. "Iroquois Indian Head." (For a Non-Intoxicating Beverage.) No. 21,438; Aug. 12; v. 265; p. 303.
- Iroquois Brewing Company, Buffalo, N. Y. "Iroquois Indian Head." (For Non-Intoxicating Beverage.) No. 21,185; Apr. 8; v. 261; p. 409.
- J. J. Garvey Co., The, New Orleans, La. "Garvey's Celebrated 'Hot Stuff' Brand." (For Red-Pepper Sauce.) No. 21,160; Feb. 25; v. 259; p. 776.
- Jablonski, Pauline, St. Louis, Mo. "Nervona." (For a Compound for Nervous Disorders.) No. 21,598; Dec. 30; v. 269; p. 883.
- Jack Patch Mfg. Co., North Chicago, Ill. "Jack Patch." (For Rubber Repair Outfits or Kits.) No. 21,153; Feb. 11; v. 259; p. 382.
- Joe Lowe Co. Inc., New York, N. Y. "Ser-Vus." (For Bread.) No. 21,508; Oct. 7; v. 267; p. 181.
- Joe Lowe Co. Inc., New York, N. Y. "Taste Well." (For Cake.) No. 21,509; Oct. 7; v. 267; p. 181.
- Joe Lowe Co. Inc., New York, N. Y. "Ser-Vus." (For Cakes.) No. 21,531; Oct. 14; v. 267; p. 339.
- Joe Lowe Co. Inc., New York, N. Y. "Taste Well." (For Bread.) No. 21,532; Oct. 14; v. 267; p. 339.
- Johnson, Charles W., Springfield, Mass. "Photo Flowers." (For Folders Containing Photographs of Flowers.) No. 21,439; Aug. 12; v. 265; p. 303.
- Jones & Pettigrew, San Francisco, Calif. "Poppy Brand." (For Fresh Asparagus.) No. 21,315; July 1; v. 264; p. 154.
- K. Hovden Co., Monterey, Cal. "Old Capitol Brand." (For Canned California Sardines.) No. 21,100; Jan. 28; v. 258; p. 812.
- K. Hovden Co., Monterey and San Diego, Cal. "Hovden Brand." (For Canned California Sardines.) No. 21,101; Jan. 28; v. 258; p. 812.
- Ka-Zu Beverage Co. Inc. (See Hoye, Stephen M., assignor.)
- Kachel-Lenhart Company, Ephrata borough, Pa. "It Wears and Wears." (For Hosiery.) No. 21,316; July 1; v. 264; p. 154.
- Kalamazoo Stationery Co., Kalamazoo, Mich. "Fernwood." (For Writing-Tablets.) No. 21,162; Feb. 25; v. 259; p. 776.
- Keefe, Nellie T., New York, N. Y. "Pasco." (For Canned Pimientos.) No. 21,317; July 1; v. 264; p. 154.
- Kellogg, Butler, New York, N. Y. "Bankers Indelible Ink, Superior Safety Ink." (For Powdered Ink.) No. 21,163; Feb. 25; v. 259; p. 776.
- Kelly, W. H., St. Paul, Minn. "Hair-Zo." (For Hair-Tonic.) No. 21,440; Aug. 12; v. 265; p. 303.
- Klar, Adolph, New York, N. Y. "Hold-Tight." (For Hair-Wavers.) No. 21,441; Aug. 12; v. 265; p. 303.
- Kolb, George O., Hartford, Conn. "Kolb's Scotch Loaf." (For Bread.) No. 21,442; Aug. 12; v. 265; p. 303.
- Koop, Fred, Westmont, N. J. "Koop's Lightning." (For Hair-Renewer.) No. 21,318; July 1; v. 264; p. 154.
- La Habra Citrus Association, La Habra, Calif. "La Habra." (For Lemons.) No. 21,560; Oct. 21; v. 267; p. 485.
- La Habra Citrus Association, La Habra, Calif. "Reliable." (For Lemons.) No. 21,561; Oct. 21; v. 267; p. 485.
- La Sierra Heights Canning Company, Los Angeles, Calif. "Twin Buttes." (For Canned Tomatoes.) No. 21,319; July 1; v. 264; p. 154.
- La Sierra Heights Canning Co., Los Angeles, Calif. "La Liberta." (For Tomato Paste with Basilico.) No. 21,443; Aug. 12; v. 265; p. 303.
- Laporte, Ernest W., New Orleans, La. "Wilson Club." (For Ginger-Ale.) No. 21,164; Feb. 25; v. 259; p. 776.
- Lasersohn, Abraham J., St. Louis, Mo. "Absoral Ointment." (For Ointment.) No. 21,599; Dec. 30; v. 269; p. 883.
- Lawrence Airplane Model and Supply Company, Chicago, Ill. "Military Biplane." (For Toy Airplanes, Model Airplanes, and Scale Models of Airplanes.) No. 21,444; Aug. 12; v. 265; p. 303.
- Lawrence Airplane Model and Supply Company, Chicago, Ill. "Skylark." (For Toy Airplanes, Model Airplanes, and Scale-Models of Airplanes.) No. 21,510; Oct. 7; v. 267; p. 181.
- Leach, Edgar M., Columbus, Ohio. "Ke-O-Ka Nerve and Blood Remedy." (For a Nerve and Blood Remedy.) No. 21,451; Aug. 12; v. 265; p. 303.
- Leavitt, Michael L., Philadelphia, Pa. "Lev-I-Tone." (For Eye-Lotion.) No. 21,320; July 1; v. 264; p. 154.



## Alphabetical list of registrants of labels—Continued.

- Lefas, Stephen D., Washington, D. C. "Lefas Private Stock Ginger Ale." (For Ginger-Ale.) No. 21,187; Apr. 8; v. 261; p. 409.
- Levor, Victor, Attica, Ind. "No Protest." (For Cigars.) No. 21,358; July 8; v. 264; p. 351.
- Lion Brewing Company, Wilkes-Barre, Pa. "Buck-O." (For a Non-Intoxicating Cereal Beverage.) No. 21,321; July 1; v. 264; p. 155.
- Lipsit, Samuel, New York, N. Y. "London Boot." (For Boots and Shoes.) No. 21,601; Dec. 30; v. 269; p. 883.
- Little Falls Dairy Co., Inc., Little Falls, N. Y. "Dairy-men's League." (For Packages or Containers Containing Sweetened Condensed Milk.) No. 21,511; Oct. 7; v. 267; p. 181.
- Lorette Corset Co., Chicago, Ill. "May-O Belt." (For Corsets.) No. 21,247; May 20; v. 262; p. 479.
- Lortie, C. & H., Brooklyn, N. Y. "Lortie's Laundry Marvel The Wonder Washing Powder." (For a Washing Powder.) No. 21,445; Aug. 12; v. 265; p. 303.
- Lubric Oil Company, The, Cleveland, Ohio. "Koolmotor." (For Lubricating-Oil.) No. 21,446; Aug. 12; v. 265; p. 303.
- Lubric Oil Company, The, Cleveland, Ohio. "Supero." (For Lubricating-Oil.) No. 21,447; Aug. 12; v. 265; p. 303.
- Lubric Oil Company, The, Cleveland, Ohio. "White-Russ Oil." (For a Medicinal Oil.) No. 21,533; Oct. 14; v. 267; p. 339.
- Lydon Manufacturing Co., Chicago, Ill. "Lynamite Spark Plugs." (For Spark-Plugs.) No. 21,602; Dec. 30; v. 269; p. 883.
- Lyons Chemical Works, Chicago, Ill. "Tru-Blu." (For Bluing.) No. 21,322; July 1; v. 264; p. 155.
- MacDonald & Co., San Francisco, Calif. "Macdonald's East Indies Tea." (For Tea.) No. 21,448; Aug. 12; v. 265; p. 303.
- Maddas, Frank A., Jeannette, Pa. "Victor." (For Non-Intoxicating Beverage.) No. 21,449; Aug. 12; v. 265; p. 303.
- Magic Mfg. Co., Chicago, Ill. "Magic." (For Dye Soap Flakes.) No. 21,188; Apr. 8; v. 261; p. 409.
- Mandabach, Peter A., Chicago, Ill. "Soda Ale." (For Soda-Ale.) No. 21,512; Oct. 7; v. 267; p. 181.
- Mari, E. & O., Winfield Junction, N. Y. "La Perferita." (For Musical-Instrument Strings Made of Gut.) No. 21,435; Aug. 12; v. 265; p. 303.
- Masek, Louis J., Milwaukee, Wis. "Milwaukee Doctor." (For Non-Intoxicating Beverage.) No. 21,534; Oct. 14; v. 267; p. 339.
- Maspero, C., New York, N. Y. "Due Frati." (For Domestic Macaroni.) No. 21,171; Mar. 11; v. 260; p. 391.
- Massaro Macaroni Co., Fulton, N. Y. "Piave Brand Macaroni." (For Macaroni.) No. 21,450; Aug. 12; v. 265; p. 303.
- Major, Joseph, Detroit, Mich. "Joseph Major." (For a Preparation for Spanish Influenza, La Grippe, Lungs, and Blood.) No. 21,452; Aug. 12; v. 265; p. 303.
- McCabe, Frank A., Blackfoot, Mont. "League of Nations Puzzle." (For Mechanical Puzzles.) No. 21,189; Apr. 8; v. 261; p. 409.
- McLoughlin Bros., Incorporated, New York and Brooklyn, N. Y. "The Pretty Village." (For Toy Villages.) No. 21,323; July 1; v. 264; p. 155.
- McLoughlin Bros. Inc., New York and Brooklyn, N. Y. "Yale-Princeton Football Game." (For a Game.) No. 21,603; Dec. 30; v. 269; p. 883.
- McLoughlin Bros. Inc., New York and Brooklyn, N. Y. "Game of College Boat Race." (For a Game.) No. 21,604; Dec. 30; v. 269; p. 883.
- McLoughlin Bros. Inc., New York and Brooklyn, N. Y. "Home Base Ball Game." (For a Game.) No. 21,605; Dec. 30; v. 269; p. 883.
- Melin, Maans N., Rockford, Ill. "M N Peanut Fluff." (For Candy Confection.) No. 21,332; July 1; v. 264; p. 155.
- Melody, Arling B., Omaha, Nebr. "Piano Factory and Dealers Polish." (For Furniture-Polish.) No. 21,513; Oct. 7; v. 267; p. 181.
- Miller, Solomon S., Reading, Pa. "The Miller Sock." (For Men's Socks.) No. 21,190; Apr. 8; v. 261; p. 409.
- Millhauser, David, New York, N. Y. "Gets It." (For Chewing-Gum.) No. 21,535; Oct. 14; v. 267; p. 339.
- Mills, Harry, New York, N. Y. "Doriana." (For Cigars.) No. 21,324; July 1; v. 264; p. 155.
- Milwaukee Brewery of San Francisco, San Francisco, Calif. "Golden State." (For Apples.) No. 21,578; Nov. 4; v. 268; p. 189.
- Milwaukee Brewery of San Francisco, San Francisco, Calif. "Golden State." (For Coffee-Beer.) No. 21,579; Nov. 4; v. 268; p. 189.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Butter Creams." (For Candy.) No. 21,191; Apr. 8; v. 261; p. 409.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Extra Chocolates." (For Candy.) No. 21,192; Apr. 8; v. 261; p. 409.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolates Supreme." (For Candy.) No. 21,193; Apr. 8; v. 261; p. 409.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Tri-Eats." (For Candy.) No. 21,194; Apr. 8; v. 261; p. 409.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Chocolates." (For Candy.) No. 21,195; Apr. 8; v. 261; p. 409.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Belmont Package." (For Candy.) No. 21,196; Apr. 8; v. 261; p. 409.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Package Elect." (For Boxes Containing Candy.) No. 21,250; May 20; v. 262; p. 479.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Lace Design." (For Boxes Containing Candy.) No. 21,325; July 1; v. 264; p. 155.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Peacock Border." (For Candy.) No. 21,326; July 1; v. 264; p. 155.
- Milwaukee Paper Box Co., Milwaukee, Wis. "Fairlie Dream." (For Chocolate Candy.) No. 21,453; Aug. 12; v. 265; p. 303.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Hard Center Chocolates." (For Chocolate Candy.) No. 21,454; Aug. 12; v. 265; p. 303.
- Milwaukee, Paper Box Company, Milwaukee, Wis. "National Pride." (For Chocolate Candy.) No. 21,455; Aug. 12; v. 265; p. 303.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Talked of Package." (For Chocolate Candy.) No. 21,456; Aug. 12; v. 265; p. 303.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Brazil Nuts in Cream." (For Chocolate Candy.) No. 21,457; Aug. 12; v. 265; p. 303.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Colonial Chocolates." (For Chocolate Candy.) No. 21,458; Aug. 12; v. 265; p. 303.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Utopian." (For Chocolate Candy.) No. 21,536; Oct. 14; v. 267; p. 339.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Cherries.) No. 21,537; Oct. 14; v. 267; p. 339.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Tapestry Package." (For Chocolate Candy.) No. 21,562; Oct. 21; v. 267; p. 485.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Bitter Sweets." (For Candy.) No. 21,606; Dec. 30; v. 269; p. 883.
- Mint Products Company, Inc., New York, N. Y. "Lic-O-Rice Life Savers, The Candy Mint With the Hole." (For Candy Lozenges.) No. 21,127; Feb. 4; v. 259; p. 181.
- Mint Products Company, Inc., New York, N. Y. "Cough Drop Life Savers, The Candy Mint With The Hole, a Dainty Confection." (For Medicinal Candies.) No. 21,327; July 1; v. 264; p. 155.
- Moco Laboratories, Inc., Oklahoma, Okla. "Moco Monkey Grip." (For Patches for Automobile-Tires.) No. 21,328; July 1; v. 264; p. 155.
- Moneta Canning Company, Moneta, Calif. "Polly." (For Canned Tomatoes with Purée from Trimmings.) No. 21,359; July 8; v. 264; p. 351.
- Moneta Canning Company, Moneta, Calif. "Gold Beam." (For Canned Tomatoes.) No. 21,360; July 8; v. 264; p. 351.
- Money-Back Laboratories, Inc., Oklahoma, Okla. "Money Back." (For Tube, Casing and Tube Patches.) No. 21,251; May 20; v. 262; p. 479.
- Murphy, Charles E., Chillicothe, Mo. "Moon Shine Magic Cleaner." (For Cleaning Fluid.) No. 21,459; Aug. 12; v. 265; p. 303.
- Musher & Company, Incorporated, Washington, D. C. "Pompeian Tuna." (For Canned Tuna Fish.) No. 21,607; Dec. 30; v. 269; p. 883.
- N. Seligman Merchandise Co., Inc., New York, N. Y. "Milady." (For Human-Hair Nets.) No. 21,478; Aug. 12; v. 265; p. 304.
- N. Seligman Merchandise Co., Inc., New York, N. Y. "La Belle." (For Human-Hair Nets.) No. 21,544; Oct. 14; v. 267; p. 339.
- N. Seligman Merchandise Co., Inc., New York, N. Y. "Fifth Avenue Motor Net." (For Human-Hair Nets.) No. 21,545; Oct. 14; v. 267; p. 339.
- Naco Products Co., New York, N. Y. "Naco." (For a Preparation for Whitening or Bleaching Clothes and other Articles of Fabric, &c.) No. 21,460; Aug. 12; v. 265; p. 303.
- Narragansett Dairy Co. Ltd., Providence, R. I. "Nut-Butter Brand Nut Margarine." (For Margarin.) No. 21,330; July 1; v. 264; p. 155.
- Narragansett Dairy Co. Ltd., Providence, R. I. "Guernsey Brand Oleomargarine." (For Oleomargarine.) No. 21,331; July 1; v. 264; p. 155.
- Narton Remedy Corporation, Los Angeles, Cal. "Eczemox." (For a Treatment for All Diseases of the Skin and Scalp.) No. 21,142; Feb. 4; v. 259; p. 181.
- Narton Remedy Corporation, Los Angeles, Cal. "Pyrosan." (For a Treatment of the Mouth, Gums, and Membranes of the Nose and Throat.) No. 21,143; Feb. 4; v. 259; p. 181.



- National Cob Pipe Works, Union, Mo. "Missouri Briar." (For Smoking-Pipes.) No. 21,128; Feb. 4; v. 259; p. 181.
- National Paper Products Company, Carthage, N. Y., and San Francisco, Calif. "Tiger Toilet Tissue." (For Toilet-Paper.) No. 21,580; Nov. 4; v. 268; p. 189.
- National Pepsin Gum Co., San Francisco, Cal. "Mayberry." (For Gum.) No. 21,154; Feb. 11; v. 259; p. 382.
- National Sulfurn Soap Co., The, Denver, Colo. "Sulfurn Soap." (For Soap.) No. 21,329; July 1; v. 264; p. 155.
- Neptune Sea Food Co., San Diego, Calif. "Sapphire Brand." (For Canned Sardines.) No. 21,563; Oct. 21; v. 267; p. 485.
- Neptune Sea Food Co., San Diego, Calif. "St. Regis." (For Canned Sardines.) No. 21,564; Oct. 21; v. 267; p. 485.
- Neptune Sea Food Co., San Diego, Calif. "Luxury." (For Canned Sardines.) No. 21,565; Oct. 21; v. 267; p. 485.
- Neptune Sea Food Co., San Diego, Calif. "Louvre." (For Canned Sardines.) No. 21,566; Oct. 21; v. 267; p. 485.
- Neptune Sea Food Co., San Diego, Calif. "Cordova." (For Canned Sardines.) No. 21,581; Nov. 4; v. 268; p. 189.
- Nestle's Food Company, Inc., New York, N. Y. "Nestle's Evaporated Milk." (For Evaporated Milk.) No. 21,608; Dec. 30; v. 269; p. 883.
- Nestor Johnson Manufacturing Company, Chicago, Ill. "Nestor Johnson North Star Skates—Ladies' Racer." (For Ice-Skates.) No. 21,539; Oct. 14; v. 267; p. 339.
- Nestor Johnson Manufacturing Company, Chicago, Ill. "Nestor Johnson North Star Skates—Men's Racer." (For Ice-Skates.) No. 21,540; Oct. 14; v. 267; p. 339.
- Nestor Johnson Manufacturing Company, Chicago, Ill. "Nestor Johnson North Star Skates—Figure Skate." (For Ice-Skates.) No. 21,541; Oct. 14; v. 267; p. 339.
- Nestor Johnson Manufacturing Company, Chicago, Ill. "Nestor Johnson North Star Skates—Men's Hockey." (For Ice-Skates.) No. 21,542; Oct. 14; v. 267; p. 339.
- Nestor Johnson Manufacturing Company, Chicago, Ill. "Nestor Johnson North Star Skates—Ladies' Hockey." (For Ice-Skates.) No. 21,543; Oct. 14; v. 267; p. 339.
- Nevins, Thomas F., New York, N. Y., and Merritt, Fla. "Indian River Fruits, Nevins Merritt's Island Brand." (For Fruits.) No. 21,333; July 1; v. 264; p. 155.
- Nielsen & Kittle Canning Co. Ltd., Terminal, Calif. "Norseman." (For Canned Sardines.) No. 21,361; July 8; v. 264; p. 351.
- Non-Spill Sanitary Dairy Pail Company, St. Louis, Mo. "Non-Spill Sanitary Dairy Pail." (For Dairy-Pails.) No. 21,609; Dec. 30; v. 269; p. 883.
- North Ontario Packing Co., Los Angeles, Calif. "Glen Rosa Brand." (For Orange Marmalade.) No. 21,334; July 1; v. 264; p. 155.
- Northwestern Fisheries Co., Seattle, Wash. "Peerless." (For Canned Salmon.) No. 21,252; May 20; v. 262; p. 479.
- Northwestern Fisheries Co., Seattle, Wash. "Coat of Arms' Brand." (For Canned Salmon.) No. 21,253; May 20; v. 262; p. 479.
- Nut House Incorporated, The, Seattle, Wash. "Bar of Bars." (For Chocolate Candy.) No. 21,197; Apr. 8; v. 261; p. 409.
- Nut House Incorporated, The, Seattle, Wash. "The Chief Nut." (For Nut and Fruit Bars.) No. 21,254; May 20; v. 262; p. 479.
- Nut House Incorporated, The, Seattle, Wash. "Sum \$5,400,000 Quality." (For Nut and Fruit Bars.) No. 21,255; May 20; v. 262; p. 479.
- Oberlander, Carrie, San Francisco, Calif. "California Roseleaf Preserves." (For Rose-Leaf Preserves.) No. 21,546; Oct. 14; v. 267; p. 339.
- Oceana Canning Co., Shelby, Mich. "Shelby Brand." (For Canned Pork and Beans with Tomato Sauce.) No. 21,103; Jan. 28; v. 258; p. 812.
- Ohio Beverage Company, The, Columbus, Ohio. "Cold Seal." (For a Non-Intoxicating Beverage.) No. 21,256; May 20; v. 262; p. 479.
- Ohio Beverage Company, The, Columbus, Ohio. "Ohio Club." (For Ginger-Ale.) No. 21,461; Aug. 12; v. 265; p. 303.
- Orange City Mineral Spring Company, Orange City, Fla. "Orange City Water." (For Mineral Water.) No. 21,567; Oct. 21; v. 267; p. 485.
- Othine Laboratories, Buffalo, N. Y. "Othine-Double Strength." (For Treatment for Freckles.) No. 21,610; Dec. 30; v. 269; p. 883.
- Owl Supply Company, Boston, Mass. "Owl Clips." (For Paper-Clips.) No. 21,462; Aug. 12; v. 265; p. 303.
- Oxnard Citrus Ass'n, Hueneme, Calif. "Oxnard." (For Lemons.) No. 21,463; Aug. 12; v. 265; p. 303.
- Oxo Limited, Inc., New York, N. Y. "Oxo Beef Tea Cordial." (For Beef-Tea Cordial.) No. 21,611; Dec. 30; v. 269; p. 883.
- P. M. Frankel Company, The, Cleveland, Ohio. "Distinction Spring Fastener." (For Spring-Fasteners.) No. 21,121; Feb. 4; v. 259; p. 181.
- Paiewonsky, Isaac, St. Thomas, Virgin Islands, United States. "Double Distilled Bay Rum." (For Bay-Rum.) No. 21,104; Jan. 28; v. 258; p. 812.
- Pallister Bros., Ottumwa, Iowa. "The Ottumwa Cigar O. K." (For Cigars.) No. 21,257; May 20; v. 262; p. 479.
- Pan-America Supply Company, Inc., New York, N. Y. "Pasco." (For Greases.) No. 21,464; Aug. 12; v. 265; p. 303.
- Paper Specialty Co., The, Wausau, Wis. "Parasilk." (For Barber Head-Rest Paper.) No. 21,465; Aug. 12; v. 265; p. 303.
- Pasadena Orange Growers' Association, Pasadena, Calif. "Luscious." (For Oranges.) No. 21,469; Aug. 12; v. 265; p. 303.
- Patent Cereals Company, The, Geneva, N. Y. "Sunseal." (For Corn Cereals.) No. 21,129; Feb. 4; v. 259; p. 181.
- Penick & Ford, Ltd., New Orleans, La. "Penick & Ford's Brown Label Brer Rabbit Brand." (For Sugar-Cane Products and Corn-Syrup.) No. 21,198; Apr. 8; v. 261; p. 409.
- Penick & Ford, Ltd., New Orleans, La. "Penick & Ford's Gold Label Brer Rabbit Brand." (For Pure New Orleans Molasses.) No. 21,199; Apr. 8; v. 261; p. 409.
- Penick & Ford, Ltd., New Orleans, La. "Penick & Ford's Red Label Brer Rabbit Brand." (For Pure Country Sorghum.) No. 21,200; Apr. 8; v. 261; p. 409.
- Penick & Ford, Ltd., New Orleans, La. "Penick & Ford's Green Label Brer Rabbit Brand." (For Pure New Orleans Molasses.) No. 21,201; Apr. 8; v. 261; p. 409.
- Penick & Ford, Ltd., New Orleans, La. "Blue Label Penick & Ford's Brer Rabbit Brand." (For Pure Country-Made Ribbon-Cane Syrup.) No. 21,258; May 20; v. 262; p. 479.
- Pennsylvania Chocolate Company, Pittsburgh, Pa. "Chocolat Supérieur." (For Chocolate.) No. 21,335; July 1; v. 264; p. 155.
- Peerless Food Products Co., Wilmington, Del., and Chicago, Ill. "Peerless Brand Beef Tongues." (For Beef-Tongues.) No. 21,165; Feb. 25; v. 259; p. 776.
- Peppa Mina F., San Francisco, Calif. "La Ta'O." (For Hair Remedy.) No. 21,466; Aug. 12; v. 265; p. 303.
- Peppers, Thomas H., Los Angeles, Calif. "Blue Goose." (For Oranges.) No. 21,568; Oct. 21; v. 267; p. 485.
- Perfection Packing Co. Inc., New York, N. Y. "Mustard." (For Mustard.) No. 21,105; Jan. 28; v. 258; p. 812.
- Perfektone Corporation, The, Philadelphia, Pa. "Perfektone." (For Talking-Machines.) No. 21,336; July 1; v. 264; p. 155.
- Peter Hand Brewing Company, Chicago, Ill. "Malthop." (For a Non-Intoxicating Cereal Beverage.) No. 21,547; Oct. 14; v. 267; p. 339.
- Pickerill, J. M., St. Louis, Mo. "Bone Dry Brand." (For Weatherproof Clothing.) No. 21,337; July 1; v. 264; p. 155.
- Pillsbury Flour Mills Company, Minneapolis, Minn. "Pillsbury's Pancake Flour." (For Pancake-Flour.) No. 21,215; Apr. 15; v. 261; p. 628.
- Pioneer Paper Company, Los Angeles, Calif. "Polly-Ana." (For Bread.) No. 21,470; Aug. 12; v. 265; p. 303.
- Pioneer Paper Company, Los Angeles, Calif. "Guaranteed." (For Bread.) No. 21,471; Aug. 12; v. 265; p. 303.
- Pittsburgh Brewing Company, Pittsburgh, Pa. "Iron City Beverage." (For Non-Intoxicating Beverages.) No. 21,155; Feb. 11; v. 259; p. 382.
- Pittsburgh Brewing Company, Pittsburgh, Pa. "Tech Beverage." (For Non-Intoxicating Beverages.) No. 21,156; Feb. 11; v. 259; p. 382.
- Planters Nut & Chocolate Company, Wilkes-Barre, Pa. "Planters Pennant Peanuts." (For Peanuts.) Nos. 21,467-8; Aug. 12; v. 265; p. 303.
- Planters Nut & Chocolate Company, Wilkes-Barre, Pa. "Planters Pennant Brand Peanuts." (For Containers of Peanuts.) No. 21,548; Oct. 14; v. 267; p. 339.
- Pockman, Leonard H., San Francisco, Calif. "Bromo-Aspirin." (For Laxative Tablets.) No. 21,549; Oct. 14; v. 267; p. 339.
- Pucciani, Albert, Cleveland, Ohio. "City of Roma." (For Cigars.) No. 21,130; Feb. 4; v. 259; p. 181.
- Publ-Webb Co., Chicago, Ill. "Thomas J. Webb." (For Coffee.) No. 21,166; Feb. 25; v. 259; p. 776.
- Purisol Products Corporation. "Purisol." (For Soaps.) No. 21,259; May 20; v. 262; p. 479.
- Purity Packing Company, Chicago, Ill. "Purepack Brand." (For Containers Containing Sausage.) No. 21,612; Dec. 30; v. 269; p. 883.
- R. B. Biscuit Company, The, Cleveland, Ohio. "Oh-So-Good." (For Bread.) No. 21,097; Jan. 28; v. 258; p. 812.
- R. B. Biscuit Co., The, Cleveland, Ohio. "Xtragoood." (For Bread.) No. 21,210; Apr. 15; v. 261; p. 628.
- Ralo Toy Company, Worcester, Mass. "Railite-Stone Blocks." (For Toy Building-Blocks.) No. 21,338; July 1; v. 264; p. 155.
- Randall, J. W. H., Piedmont, W. Va., and New York, N. Y. "Pep." (For a Non-Alcoholic Beverage.) No. 21,363; July 8; v. 264; p. 351.



## Alphabetical list of registrants of labels—Continued.

- Red River Woolen Mills Co., Fergus Falls, Minn. "Warm Knit." (For Knit Underwear.) No. 21,157; Feb. 11; v. 259; p. 382.
- Redondo Packing Co., Redondo, Calif. "Redondo." (For Canned Sardines.) No. 21,364; July 8; v. 264; p. 351.
- Reimann, M., New York, N. Y. "Germosol." (For Antiseptic Germicide and Deodorant.) No. 21,260; May 20; v. 262; p. 479.
- Rex Paint Corporation, New York, N. Y. "Marine and Structural Paints." (For Paint.) No. 21,131; Feb. 4; v. 259; p. 181.
- Rieder & Freudenberger, Louisville, Ky. "Kozine Hair Tonic." (For a Hair-Tonic Preparation.) No. 21,365; July 8; v. 264; p. 351.
- Robertson Paper Company, Bellows Falls, Vt. "Mother Hubbard Bread." (For Bread.) No. 21,261; May 20; v. 262; p. 479.
- Robins, Max, Chicago, Ill. "Neo." (For Nasal Jelly.) No. 21,339; July 1; v. 264; p. 155.
- Rom-baw Chemical Co., Inc., Clinton, N. Y. "Rom-baw Polish The Big Idea." (For a Polish for Dressing Varnished Surfaces.) No. 21,262; May 20; v. 262; p. 479.
- Rooke, Bert G., Lindsay, Calif. "Sunshine 'Special.'" (For Oranges.) No. 21,472; Aug. 12; v. 265; p. 304.
- Rooke, Bert G., Lindsay, Calif. "Sunshine Special." (For Fresh Grapes.) No. 21,473; Aug. 12; v. 265; p. 304.
- Rosenthal, Maurice, San Francisco, Cal. "Pasaco." (For Tomato Sauce.) No. 21,132; Feb. 4; v. 259; p. 181.
- Roskano Chocolate Co., New York, N. Y. "Roskano Chocolates." (For Chocolates.) No. 21,550; Oct. 14; v. 267; p. 339.
- Ross Manufacturing Company, Kansas City, Mo. "Ross Quality is Economy." (For Tank-Bulbs.) No. 21,216; Apr. 15; v. 261; p. 628.
- Roth, Joseph S., Monongahela, Pa. "Tip Top." (For Ginger-Beer.) No. 21,366; July 8; v. 264; p. 351.
- Royal Worcester Corset Co., Worcester, Mass. "Serviceable Adjusto Corsets, Comfortable." (For Corsets.) No. 21,340; July 1; v. 264; p. 155.
- Royal Worcester Corset Co., Worcester, Mass. "Fashionable Royal Worcester Corsets, Graceful." (For Corsets.) No. 21,341; July 1; v. 264; p. 155.
- Rubin, Mayer, Hammond, Ind. "Old Taylor Borbon." (For a Non-Alcoholic Distilled Beverage.) No. 21,342; July 1; v. 264; p. 155.
- Rusconi, L., Wahtoke, Calif. "Native Son." (For Grapes.) No. 21,263; May 20; v. 262; p. 479.
- Rusconi, L., Wahtoke, Calif. "Our Pride." (For Grapes.) No. 21,264; May 20; v. 262; p. 479.
- Rusconi, L., Wahtoke, Calif. "William Tell." (For Grapes.) No. 21,265; May 20; v. 262; p. 479.
- Russell Jobbers' Mills, The, Oklahoma, Okla. "Rusdun." (For Bluing.) No. 21,367; July 8; v. 264; p. 351.
- Russian Candy Company, The, Chicago, Ill. "Russian Style Fruit Karamel." (For Candy.) Nos. 21,266-70; May 20; v. 262; p. 479.
- S. Glemby, Inc., New York, N. Y. "Lorraine." (For Hair-Nets.) No. 21,122; Feb. 4; v. 259; p. 181.
- S. Liebmann's Sons, Inc., Brooklyn, N. Y. "A Pure Soft Beverage." (For a Non-Intoxicating Beverage.) No. 21,249; May 20; v. 262; p. 479.
- Saadi, John, Allentown, Pa. "Tan-Sav." (For Preparations for Relief of Colds and Catarrh.) No. 21,343; July 1; v. 264; p. 155.
- Sackheim, Max, New York, N. Y. "Monogram No. 3." (For Cigars.) No. 21,474; Aug. 12; v. 265; p. 304.
- Salz Brothers, New York, N. Y. "Sta-Sharp." (For Pencils.) No. 21,614; Dec. 30; v. 269; p. 883.
- Samuel W. Peck & Co., New York, N. Y. "Sampeck" Triple-Service Suit." (For Men's, Young Men's, Boys', Children's, and Juveniles' Outer Suits.) No. 21,362; July 8; v. 264; p. 351.
- San Joaquin Fruit Co., Tustin, Calif. "President." (For Oranges.) No. 21,368; July 8; v. 264; p. 351.
- San Joaquin Fruit Co., Tustin, Calif. "Senator." (For Oranges.) No. 21,369; July 8; v. 264; p. 351.
- Santiago Orange Growers Association, Orange, Calif. "Everite Brand." (For Valencia Oranges.) No. 21,475; Aug. 12; v. 265; p. 304.
- Santiago Orange Growers Ass'n. "Epicure." (For Valencia Oranges.) No. 21,476; Aug. 12; v. 265; p. 304.
- Schlusselfberg, Abraham, New York, N. Y. "Baby's Delight Bath Robes." (For Bath-Robes.) No. 21,587; Dec. 9; v. 269; p. 391.
- Schweigart, William E., Seattle, Wash. "Golden Krust, the Loaf de Luxe." (For Bread.) No. 21,615; Dec. 30; v. 269; p. 883.
- See, Joseph E., New York, N. Y. "Pom-Ora." (For A Grade A Marmalade.) No. 21,217; Apr. 15; v. 261; p. 628.
- Seltzer, Theodore, Hoboken, N. J. "Baume Analgésique Bengué." (For a Medicinal Preparation.) No. 21,133; Feb. 4; v. 259; p. 181.
- Seney Shoe Company, Sioux City, Iowa. "Down Where The Seney Shoe Sign Shines." (For Shoes.) No. 21,134; Feb. 4; v. 259; p. 181.
- Shepard, Abraham D., Chicago, Ill. "Ox-Wa." (For Charged Table-Waters.) No. 21,482; Aug. 12; v. 265; p. 304.
- Sidney Rosenstein & Co. Inc., New York, N. Y. "Reversible, Detachable, Dubbel-Cuf a Life-Saver for Fine Shirts." (For Shirts.) No. 21,613; Dec. 30; v. 269; p. 883.
- Signode System, Inc., Chicago, Ill. "Signode System." (For Reinforcing-Seals.) No. 21,271; May 20; v. 262; p. 479.
- Smith-Faus Drug Co., Salt Lake City, Utah. "Pine-Oil-Rub." (For Natural Oil of Pine for Coughs and Colds.) No. 21,203; Apr. 8; v. 261; p. 409.
- Smith & Nessel Company, Inc., New York, N. Y. "Russian Maid." (For Wheat-Flour.) No. 21,272; May 20; v. 262; p. 479.
- Snovel, Harry H., Van Wert, Ohio. "Millionaire Harry." (For Cigars.) No. 21,273; May 20; v. 262; p. 479.
- So-Good Candy Manufacturing Co., Lexington, Ky. "Oh! So Good." (For Candy.) No. 21,583; Nov. 11; v. 268; p. 378.
- Standard Chemical Co., Emeryville, Calif. "Olene." (For Spraying Compounds for Citrus Trees.) No. 21,204; Apr. 8; v. 261; p. 409.
- Standard Chemical Co., Emeryville, Calif. "A No. 1 Antiseptic Cutting Compound." (For Chemical Compounds Prepared for Cooling Metal-Cutting Tools.) No. 21,218; Apr. 15; v. 261; p. 628.
- Star Crayon Manufacturing Company, Inc., New York, N. Y. "The Star's Palette Outfit." (For Children's Paint Sets.) No. 21,176; Mar. 18; v. 260; p. 559.
- Star Merchandise Co., New York, N. Y. "Flyweight." (For Dress-Shields.) No. 21,514; Oct. 7; v. 267; p. 181.
- Steel Packing Co., San Diego, Calif. "Steele Brand." (For Canned Sardines.) No. 21,477; Aug. 12; v. 265; p. 304.
- Steele Packing Co., San Diego, Calif. "Steele Brand." (For Canned Spinach.) No. 21,479; Aug. 12; v. 265; p. 304.
- Steele Packing Co., San Diego, Calif. "Kenilworth." (For Canned Sardines.) No. 21,480; Aug. 12; v. 265; p. 304.
- Stern, Paul J., Milwaukee, Wis. "It's Quality." (For Bread.) No. 21,344; July 1; v. 264; p. 155.
- Stewart, Wm. A., Chicago, Ill. "Drum Brand." (For Coffee.) No. 21,172; Mar. 11; v. 260; p. 391.
- Stuart Fish Products Co., Inc., Seattle, Wash. "Pacific." (For Canned Fish Balls.) No. 21,345; July 1; v. 264; p. 155.
- Sulphozin Co., Newark, N. J. "Sulphozin." (For a Face and Skin Lotion.) No. 21,214; Apr. 15; v. 261; p. 628.
- Sunkist Candy Co., Los Angeles, Calif. "Sunkist." (For Candy.) No. 21,481; Aug. 12; v. 265; p. 304.
- Sunset Canneries, Ripon, Calif. "Bear Cat." (For Canned Tomatoes.) No. 21,569; Oct. 21; v. 267; p. 485.
- Super Sales Company, Des Moines, Iowa. "Super." (For Rubber Patches.) No. 21,551; Oct. 14; v. 267; p. 339.
- Terris, John, Lebanon, Pa. "Terris." (For White Dye Bleach for Panamas and Straw Hats.) No. 21,346; July 1; v. 264; p. 155.
- Terwilliger, Alexander C., Titusville, Fla. "Wigwam." (For Oranges.) No. 21,136; Feb. 4; v. 259; p. 181.
- Thames Drug Company, Beaumont, Tex. "Lavisian." (For a Preparation for the Scalp.) No. 21,219; Apr. 15; v. 261; p. 628.
- Thames Drug Company, Beaumont, Tex. "Pawnee Ant Exterminator." (For an Insecticide.) No. 21,220; Apr. 15; v. 261; p. 628.
- Touraine Company, The, Boston, Mass. "Touraine." (For Candy.) No. 21,274; May 20; v. 262; p. 479.
- Touraine Company, The, Boston, Mass. "Touraine Chocolates Boston Made." (For Candy.) No. 21,275; May 20; v. 262; p. 479.
- Twin City Extract Company, Minneapolis, Minn. "Delico." (For Fruit-Juices.) No. 21,515; Oct. 7; v. 267; p. 181.
- Uhrly, Felix, Chicago, Ill. "De Luxe Shaving Lather." (For Shaving-Lather.) No. 21,137; Feb. 4; v. 259; p. 181.
- United States Rubber Company, New York, N. Y. "Usco Kold-Pak." (For Jar-Rubbers.) No. 21,370; July 8; v. 264; p. 351.
- V. L. Blahnik and Sons, Chicago, Ill. "Bronchitine." (For a Medicinal Compound—Namely, Bronchitine.) No. 21,389; Aug. 5; v. 265; p. 143.
- Vail Brothers, Philadelphia, Pa. "Lucia." (For Cocoa-Butter Preparation.) No. 21,107; Jan. 28; v. 258; p. 812.
- Valley View Ranch, Ontario, Calif. "Opitma." (For Fresh Citrus Fruits.) No. 21,205; Apr. 8; v. 261; p. 409.
- Vanomar Producers, Van Nuys, Cal. "Vanomar." (For Canned Peaches.) No. 21,108; Jan. 28; v. 258; p. 812.
- Vellner, Eugene, Philadelphia, Pa. "Vellner's Albinol." (For Soap.) No. 21,483; Aug. 12; v. 265; p. 304.
- Victor Brewing Company, The, Jeannette, Pa. "Victor." (For Beer.) No. 21,570; Oct. 21; v. 267; p. 485.
- Virginia Fruit Juice Company, Inc., Norfolk, Va. "A Pip-pin of a Drink." (For Pure Apple-Juice.) No. 21,347; July 1; v. 264; p. 155.
- Voegelé & Dinning Co., Inc., Lynchburg, Va. "Jelly Drops." (For Candies.) No. 21,553; Oct. 14; v. 267; p. 339.



*Alphabetical list of registrants of labels—Continued.*

- Voegele & Dinning Co. Inc., Lynchburg, Va. "Voegele's Pure Sugar Stick Candy." (For Candy.) No. 21,616; Dec. 30; v. 269; p. 883.
- W. F. Assau Canning Co., Baltimore, Md. "Fort McHenry." (For Canned Vegetables and Canned Fruits.) No. 21,112; Feb. 4; v. 259; p. 181.
- W. F. Young, Inc., Springfield, Mass. "Absorbine, Jr. The Antiseptic Liniment." (For Absorbine, Jr. Liniment.) No. 21,277; May 20; v. 262; p. 479.
- Walker, Nell S., Thomasville, Ga. "Walker's Devilment." (For Insecticide.) No. 21,138; Feb. 4; v. 259; p. 181.
- Wallie Dorr Company, New York, N. Y. "Pig-Me." (For Toy Furniture.) No. 21,348; July 1; v. 264; p. 155.
- Walters, Henry V., Oceanport, N. J. "Some." (For Bread.) No. 21,206; Apr. 8; v. 261; p. 409.
- Walters Mfg. Co., Chicago, Ill. "Washjoy." (For a Washing Compound.) No. 21,516; Oct. 7; v. 267; p. 181.
- Webster, Frank B., Los Angeles, Calif. "Duro-lac." (For a Polishing and Cleaning Compound for Automobiles, Furniture, and All Varnished or Enameled Surfaces Requiring a High Polish.) No. 21,484; Aug. 12; v. 265; p. 304.
- Weil Color and Chemical Company & Weil and Company, New York, N. Y. "Best Everyway Milk." (For Condensed Milk.) No. 21,349; July 1; v. 264; p. 155.
- Weisberg, Benjamin C., New York, N. Y. "The Confection of Good Taste." (For Butter-Scotch.) No. 21,571; Oct. 21; v. 267; p. 485.
- Welch Grape Juice Company, The, Westfield, N. Y. "Welch's Grapelade The National Spread." (For a Spread.) No. 21,221; Apr. 15; v. 261; p. 628.
- Werner, Solomon, Philadelphia, Pa. "Cherry Almond." (For Cherry Almond Flavor.) No. 21,177; Mar. 18; v. 260; p. 559.
- West, Augustus A., Philadelphia, Pa. "West Gold Seal Hair Net." (For Hair-Nets.) No. 21,109; Jan. 28; v. 258; p. 812.
- West, Augustus A., Philadelphia, Pa. "The Tourist Hair Net." (For Hair-Nets.) No. 21,110; Jan. 28; v. 258; p. 812.
- West, Augustus A., Philadelphia, Pa. "Beach & Motor Hair Net." (For Hair-Nets.) No. 21,139; Feb. 4; v. 259; p. 181.
- West Augustus A., Philadelphia, Pa. "Softex." (For a Shampoo.) No. 21,140; Feb. 4; v. 259; p. 181.
- Western Grocer Company, Oskaloosa, Iowa. "Jack Sprat Brand." (For Coffee.) No. 21,207; Apr. 8; v. 261; p. 409.
- Western Grocer Company, Oskaloosa, Iowa. "Jack Sprat Brand." (For Canned Corn.) No. 21,208; Apr. 8; v. 261; p. 409.
- Western Kentucky Tire Co., The, Hopkinsville, Ky. "Sure-Grip." (For a Rubber Patch.) No. 21,141; Feb. 4; v. 259; p. 181.
- Westmoreland Candy Co., Inc., Richmond, Va. "Westmoreland Dependable Confections." (For Confections.) No. 21,517; Oct. 7; v. 267; p. 181.
- Whittier Citrus Association, Whittier, Calif. "Whittier Brand." (For Oranges.) No. 21,485; Aug. 12; v. 265; p. 304.
- Widlar Co., The, Cleveland, Ohio. "C W Brand." (For Gunpowder Tea.) No. 21,554; Oct. 14; v. 267; p. 339.
- Widlar Co., The, Cleveland, Ohio. "C W Brand." (For Salad-Dressing.) No. 21,555; Oct. 14; v. 267; p. 339.
- Wildroot Chemical Company, Buffalo, N. Y. "Garden Gate." (For Toilet Water.) No. 21,276; May 20; v. 262; p. 479.
- William Cluff Co., San Francisco, Calif. "Yosemite." (For Canned Peaches.) No. 21,371; July 8; v. 264; p. 351.
- Williams, Tempia, Ford City, Pa. "Madam Tempia William's T. W. Hair Beautifier." (For a Preparation Which Beautifies and Improves the Hair and Aids its Growth.) No. 21,178; Apr. 1; v. 261; p. 200.
- Wilson, Charles A., New York, N. Y. "Wilson Sun-Beam Auto Polish." (For a Liquid to Polish Bodies of Automobiles, Musical Instruments, Furniture, and Fixtures.) No. 21,350; July 1; v. 264; p. 155.
- Wright, George C., Keene, N. H. "Rub-Knot." (For Powdered Washing Compound.) No. 21,486; Aug. 12; v. 265; p. 304.
- Yukon Mill & Grain Co., Yukon, Okla. "Yukon's Best." (For Pancake-Flour.) No. 21,487; Aug. 12; v. 265; p. 304.
- Zenith Products Company, Spring Lake, Mich. "Zenith American Daylight Fire Works, Zenith Products Co., Spring Lake, Mich., U. S. A." (For Fireworks.) No. 21,572; Oct. 21; v. 267; p. 485.



# ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

- A - C Manufacturing Co., Chicago, Ill. "Save Your Spokes—A Sure Cure for Loose Spokes in Auto, Buggy, and Wagon Wheels—Tighten Your Spokes Without Removing Your Rims or Tires—Any One Can Use—No Tools Necessary." (For Spoke Compound.) No. 5,135; Aug. 5; v. 265; p. 144.
- Affa Specialty Co., Worcester, Mass. "License Plate Holder." (For License-Plate Holders.) No. 5,089; May 20; v. 262; p. 480.
- American Chic Company, New York, N. Y. "Sen-Sen makes my cigar taste like a 25¢ Perfecto!" (For Sen-Sen Pellets.) No. 5,107; July 1; v. 264; p. 156.
- American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Expectorant White Pine Nature's Cough Remedy." (For an Expectorant.) Nos. 5,061-3; Feb. 25; v. 259; p. 776.
- American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Cold and Grippe Tablets." (For Cold and Grippe Tablets.) Nos. 5,108-10; July 1; v. 264; p. 156.
- American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Beef Iron and Wine." (For Beef, Iron, and Wine.) Nos. 5,111-13; July 1; v. 264; p. 156.
- Anglo-American Mill Company, Owensboro, Ky. "Let Us Place You Here." (For Flour-Mills.) No. 5,136; Aug. 5; v. 265; p. 144.
- B. V. D. Company, The, New York, N. Y. "The Dough-boy's Return." (For Athletic Underwear.) No. 5,090; May 20; v. 262; p. 480.
- B. V. D. Company, The, New York, N. Y. "The Canteen That 'Sure Comes Clean.'" (For Athletic Underwear.) No. 5,091; May 20; v. 262; p. 480.
- B. V. D. Company, The, New York, N. Y. "Get Wise, Dad, Wear B. V. D." (For Athletic Underwear.) No. 5,126; July 8; v. 264; p. 351.
- B. V. D. Company, The, New York, N. Y. "Yes, Sir! That Label Guarantees You B. V. D. Quality." (For Athletic Underwear.) No. 5,137; Aug. 5; v. 265; p. 144.
- B. V. D. Company, The, New York, N. Y. "It's Great Boys, To Climb Into B. V. D." (For Athletic Underwear.) No. 5,138; Aug. 5; v. 265; p. 144.
- B. V. D. Company, The, New York, N. Y. "Take It From Me, Insist On B. V. D." (For Athletic Underwear.) No. 5,139; Aug. 5; v. 265; p. 144.
- B. V. D. Company, The, New York, N. Y. "Yes, dear, I asked for B. V. D. and here's the label." (For Athletic Underwear.) No. 5,140; Aug. 5; v. 265; p. 144.
- "Babs" Manufacturing Corporation, Philadelphia, Pa. "The Walking Doll." (For Walking Dolls.) No. 5,182; Dec. 30; v. 269; p. 883.
- Beach Leather Company, The, Coshocton, Ohio. "Beach's 'All Leather' Pocket-Books, 'Best for Your Money.'" (For Pocket-Books.) No. 5,164; Oct. 14; v. 267; p. 340.
- Benedict, J. F., Portsmouth, Ohio. "Spot Slide." (For Garment-Spotter.) No. 5,106; May 20; v. 262; p. 480.
- Blankinship, John S., Lynchburg, Va. "History." (For Furniture.) No. 5,050; Apr. 8; v. 261; p. 409.
- Braender Rubber & Tire Co., Rutherford, N. J. "All Champions." (For Tires and Tubes.) No. 5,081; Apr. 8; v. 261; p. 409.
- Brockway, C. L., Seattle, Wash. "Saving Service, Satisfaction." (For Automobile-Tires.) No. 5,124; July 8; v. 264; p. 351.
- Bunte Brothers, Chicago, Ill. "Bunte The Quality Cocoa." (For Cocoa.) No. 5,125; July 8; v. 264; p. 351.
- Buob & Scheu, Cincinnati, Ohio. "Measurement Blank." (For Automobile-Tops.) No. 5,041; Jan. 28; v. 258; p. 812.
- Buob & Scheu, Cincinnati, Ohio. "Measurement Blank." (For Commercial Purposes for the Manufacture of Automobile-Tops.) No. 5,072; Mar. 25; v. 260; p. 730.
- Burgess, William J., Lynn, Mass. "Burgess' Perfection Coffee & Tea-Pot." (For Coffee and Tea Pots.) No. 5,052; Feb. 11; v. 259; p. 382.
- Burton Bros. & Co., New York, N. Y. "Burton's School Day Suiting." (For Cotton Piece Goods.) No. 5,046; Feb. 4; v. 259; p. 182.
- Detmer Woolen Co., New York, N. Y. "Come in, let us show you Detmer University Novelty Latest Suitings." (For Detmer Woolens.) Nos. 5,082-3; Apr. 15; v. 261; p. 628.
- California Paint Company, Oakland, Calif. "Pacific Coast Stacks." (For Stack-Paints.) No. 5,114; July 1; v. 264; p. 156.
- Carraine, Eugene, Philadelphia, Pa. "Jug-L-Ball." (For a Game.) No. 5,142; Aug. 5; v. 265; p. 144.
- Cheney, Talking Machine Company, Chicago, Ill. "Cheney." (For Phonographs.) No. 5,175; Nov. 4; v. 268; p. 189.
- Chicago Coal & Mining Company, Chicago, Ill. "Dixie Diamond Coal." (For Coal.) No. 5,092; May 20; v. 262; p. 480.
- Colgate & Co., Jersey City, N. J. "Colgate's Cleaning the Teeth Game." (For Ribbon Dental Cream.) No. 5,183; Dec. 30; v. 269; p. 883.
- Cream of Wheat Co., Minneapolis, Minn. "Welcome Home, Boys." (For Cream of Wheat Breakfast Food.) No. 5,143; Aug. 5; v. 265; p. 144.
- Cream of Wheat Co., Minneapolis, Minn. "Menu." (For Cream of Wheat Breakfast Food.) No. 5,144; Aug. 5; v. 265; p. 144.
- Cream of Wheat Co., Minneapolis, Minn. "Putting It Down In Black and White." (For Breakfast Food.) No. 5,176; Nov. 4; v. 268; p. 189.
- Creamette Company, The, Minneapolis, Minn. "Creamettes." (For Macaroni.) No. 5,177; Nov. 4; v. 268; p. 189.
- Dr. Swett Root Beer Company, The, Boston, Mass. "From Childhood to Old Age—Dr. Swett's Root Beer." (For Root-Beer.) No. 5,093; May 20; v. 262; p. 480.
- George W. Baker Shoe Company, Brooklyn, N. Y. "Quality without Extravagance—Style without Experiment." (For Footwear.) No. 5,141; Aug. 5; v. 265; p. 144.
- Girard, A. N., Los Angeles, Cal. "The Hoover Style Grocer." (For Packaged Groceries.) No. 5,047; Feb. 4; v. 259; p. 182.
- Gooch Milling & Elevator Co., Lincoln, Nebr. "Gooch's Best Flour." (For Bread.) No. 5,145; Aug. 5; v. 265; p. 144.
- Gooch Milling & Elevator Co., Lincoln, Nebr. "Gooch's Best Self Rising Pancake-Flour." (For Pancake-Flour.) No. 5,146; Aug. 5; v. 265; p. 144.
- Gossamer Rubber Company, The, Syracuse, N. Y. "Right from the word Go." (For Rubber Goods.) No. 5,166; Oct. 14; v. 267; p. 340.
- Green & Green Co., The, Dayton, Ohio. "Eatsome Edgemonts." (For Crackers.) No. 5,171; Oct. 21; v. 267; p. 485.
- Hall, L. W., Irwin and Mifflinburg, Pa. "Mentholyptine." (For Medicinal Preparations.) No. 5,149; Aug. 5; v. 265; p. 144.
- Indian Packing Company, Green Bay, Wis. "Council Meats, A Meat Market on Your Pantry Shelf." (For Canned Meat.) No. 5,094; May 20; v. 262; p. 480.
- Indian Packing Company, Green Bay, Wis. "Council Meats From the Wisconsin Country to You." (For Canned Meats.) No. 5,095; May 20; v. 262; p. 480.
- James S. Kirk & Company, Chicago, Ill. "Every Atom Cleanses." (For Kirk's American Family Soap.) No. 5,053; Feb. 11; v. 259; p. 382.
- James S. Kirk & Company, Chicago, Ill. "Every Mother Knows Why." (For Kirk's American Family Soap.) No. 5,054; Feb. 11; v. 259; p. 382.
- James S. Kirk & Company, Chicago, Ill. "When Household Expenses Worry." (For Kirk's American Family Soap.) No. 5,055; Feb. 11; v. 259; p. 382.
- James S. Kirk & Company, Chicago, Ill. "Any American Family Knows Why." (For Kirk's American Family Soap.) No. 5,056; Feb. 11; v. 259; p. 382.
- James S. Kirk & Company, Chicago, Ill. "Above All." (For Kirk's Flake Soap.) No. 5,096; May 20; v. 262; p. 480.
- James S. Kirk & Company, Chicago, Ill. "You'll Like It." (For Kirk's Jap Rose Soap.) No. 5,097; May 20; v. 262; p. 480.
- James S. Kirk & Company, Chicago, Ill. "Loved by Children." (For Kirk's Jap Rose Soap.) No. 5,098; May 20; v. 262; p. 480.
- James S. Kirk & Company, Chicago, Ill. "Why Buy New Blankets?" (For Kirk's Flake White Soap.) No. 5,099; May 20; v. 262; p. 480.
- James S. Kirk & Company, Chicago, Ill. "Just Like New—Again!" (For Kirk's Flake Soap.) No. 5,100; May 20; v. 262; p. 480.
- Johnson, Chase G., Sioux City, Iowa. "The Pickwick Service Stores." (For Self-Service Stores.) No. 5,115; July 1; v. 264; p. 156.
- Joint Coffee Trade Publicity Committee of the United States, New York, N. Y. "The Coffee House is Coming Back." (For Coffee.) No. 5,172; Oct. 21; v. 267; p. 485.
- Knickerbocker Watch Co., New York, N. Y. "Daynite." (For Watches.) No. 5,147; Aug. 5; v. 265; p. 144.
- Knickerbocker Watch Co., New York, N. Y. "Day-Night." (For Watches.) No. 5,148; Aug. 5; v. 265; p. 144.
- L. & L. Manufacturing Company, Newark, N. J. "Collapsible 'Slot-Lock' Wrench." (For Wrenches.) No. 5,057; Feb. 11; v. 259; p. 382.



- M. G. Seoville Sons Company, Ogden, Utah. "Mother Goose Brooms." (For Brooms.) No. 5,133; July 8; v. 264; p. 351.
- Mar-Ed National Auto Supply Co., The, Baltimore, Md. "Shu-Rain." (For Wind-Shields of Automobiles.) No. 5,101; May 20; v. 262; p. 480.
- Marshall Field and Company, Chicago, Ill. "Athena." (For Underwear.) No. 5,058; Feb. 11; v. 259; p. 382.
- McKinnie, Henry, Pittsburgh, Pa. "Have you Max-Well Known Round Stove With a Flue?" (For Gaseous, Liquid, and Solid Fuel Burning Stoves and Heaters, Not Electrical.) No. 5,116; July 1; v. 264; p. 156.
- Moore, Gales P. (See Rogers, Robert F., assignor.)
- Moxie Co., The, Boston, Mass. "Drink Moxie." (For Moxie.) Nos. 5,173-4; Oct. 21; v. 267; p. 485.
- Musher & Company, Incorporated, Washington, D. C. "Piedmont Peanut-Oil—The food oil with the nut flavor." (For Virgin Peanut Oil.) No. 5,167; Oct. 14; v. 267; p. 340.
- National Mills, Spartanburg, S. C. "Service Brand." (For Fabrics in the Piece.) No. 5,184; Dec. 30; v. 269; p. 883.
- New Departure Manufacturing Company, The, Bristol, Conn. "Ball Bearings." (For Ball-Bearings.) No. 5,102; May 20; v. 262; p. 480.
- Nicholas Power Co., Inc., New York, N. Y. "Projectionist Ray says." (For Motion-Picture-Projection Machines.) No. 5,048; Feb. 4; v. 259; p. 182.
- Nut House Incorporated, The, Seattle, Wash. "The Chief Nut." (For Nut and Fruit Bars.) No. 5,150; Aug. 12; v. 265; p. 304.
- Nut House Incorporated, The, Seattle, Wash. "Bar of Bars." (For Nut and Fruit Bars.) No. 5,151; Aug. 12; v. 265; p. 304.
- Ottaviano, Nicholas, Pittsburgh, Pa. "Over The Top Hair Tonic." (For Hair-Tonic.) No. 5,185; Dec. 30; v. 269; p. 883.
- Otto Eisenlohr & Bros., Incorporated, Philadelphia, Pa. "Stick to Cinco. It's Safe." (For Cinco Cigars.) No. 5,084; Apr. 15; v. 261; p. 628.
- Penryn Fruit Co., Penryn, Calif. "California Fruits." (For Fruit.) No. 5,103; May 20; v. 262; p. 480.
- Perfektone Corporation, The, Philadelphia, Pa. "Perfektone." (For Talking-Machines.) No. 5,117; July 1; v. 264; p. 156.
- Perlstien Co., Inc., The, Chicago, Ill. "Boys' Clothes." (For Boys' Clothes.) No. 5,181; Dec. 9; v. 269; p. 391.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Regular old 'He' Christmas hand-out!" (For Smoking-Tobacco.) No. 5,067; Feb. 25; v. 259; p. 776.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "A pound of P. A. That's the happy holiday hunch, all right!" (For Smoking-Tobacco.) No. 5,068; Feb. 25; v. 259; p. 776.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "You'll hand it out on a platter to Prince Albert, lavish-like." (For Smoking-Tobacco.) No. 5,069; Feb. 28; v. 259; p. 776.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Say, what a trick you'll turn for your tongue." (For Smoking-Tobacco.) No. 5,070; Mar. 11; v. 260; p. 391.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "You just get-put with a jimmy pipe brimful of Prince Albert." (For Smoking-Tobacco.) No. 5,071; Mar. 11; v. 260; p. 391.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "I'll say it is!" (For Smoking-Tobacco.) No. 5,127; July 8; v. 264; p. 351.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "P. A. is such a scuttle full of sunshine!" (For Smoking-Tobacco.) No. 5,128; July 8; v. 264; p. 351.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Tell it to your old jimmy pipe!" (For Smoking-Tobacco.) No. 5,129; July 8; v. 264; p. 351.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Scrub up your smokedecks and cut for a new pipe deal!" (For Smoking-Tobacco.) No. 5,130; July 8; v. 264; p. 351.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "When you nail the grand idea." (For Smoking-Tobacco.) No. 5,131; July 8; v. 264; p. 351.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Talk about indoor and outdoor sports." (For Smoking-Tobacco.) No. 5,132; July 8; v. 264; p. 351.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Rip, a couple of planks off your smoke platform when you." (For Smoking-Tobacco.) No. 5,178; Nov. 4; v. 268; p. 189.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "No use arguing about it, or making chin-music." (For Smoking-Tobacco.) No. 5,179; Nov. 4; v. 268; p. 189.
- R. J. Reynolds Tobacco Company, Winston-Salem, N. C. "Peace for jimmy pipe and." (For Smoking-Tobacco.) No. 5,180; Nov. 4; v. 268; p. 189.
- Reuter, Clifford S., New York, N. Y. "Black Cat." (For Furniture.) No. 5,152; Aug. 12; v. 265; p. 304.
- Rogers, Robert F., New York, N. Y., assignor, by mesne assignments, to G. P. Moore, Bristol, Conn. "Ball Bearings." (For Ball-Bearings.) No. 5,153; Aug. 12; v. 265; p. 304.
- Rubber & Celluloid Products Company, New York, N. Y. "Rubberset." (For Paint and Varnish Brushes.) No. 5,154; Aug. 12; v. 265; p. 304.
- Salz Bros., New York, N. Y. "Salbro." (For Fountain-Pens.) No. 5,168; Oct. 14; v. 267; p. 340.
- Salz Bros., New York, N. Y. "Salz Brothers." (For Fountain-Pens.) No. 5,169; Oct. 14; v. 267; p. 340.
- Sammies Rubber Co., Oklahoma, Okla. "Sammies Sure-Stick." (For Motorcycle-Tire Patches.) No. 5,073; Mar. 25; v. 260; p. 730.
- Samuel Stores, Inc., The, New York, N. Y. "The Thrift Family." (For Clothing.) No. 5,155; Aug. 12; v. 265; p. 304.
- Samuel Stores, Inc., The, New York, N. Y. "Tommy Thrift." (For Clothing.) No. 5,156; Aug. 12; v. 265; p. 304.
- Samuel Stores, Inc., The, New York, N. Y. "Vera Thrift." (For Clothing.) No. 5,157; Aug. 12; v. 265; p. 304.
- Samuel Stores, Inc., The, New York, N. Y. "Mr. Thrift." (For Clothing.) No. 5,158; Aug. 12; v. 265; p. 304.
- Samuel Stores, Inc., The, New York, N. Y. "Mrs. Thrift." (For Clothing.) No. 5,159; Aug. 12; v. 265; p. 304.
- Sanitax Brush Company, Chicago, Ill. "Sanitax Sammy Kit." (For Sanitax Sammy Kits.) No. 5,059; Feb. 11; v. 259; p. 382.
- Silverhorn, F. C., Chicago, Ill. "The Home Trinity." (For Electric Washing, Sweeper, and Ironing Machine.) No. 5,104; May 20; v. 262; p. 480.
- Stern, Paul J., Milwaukee, Wis. "Its Quality." (For Bread.) No. 5,118; July 1; v. 264; p. 156.
- Sunbeam Chemical Co., Chicago, Ill. "Make Every Day a Color Day." (For Dye-Soap.) No. 5,049; Feb. 4; v. 259; p. 182.
- Sunbeam Chemical Company, Chicago, Ill. "Make Old Portieres look like New." (For Dye-Soap.) No. 5,060; Feb. 11; v. 259; p. 382.
- Sunbeam Chemical Company, Chicago, Ill. "New Colors for Your Waists." (For Dye-Soap.) No. 5,119; July 1; v. 264; p. 156.
- Sunbeam Chemical Company, Chicago, Ill. "Fashionable Colors Instantly." (For Dye-Soap.) No. 5,120; July 1; v. 264; p. 156.
- Sunbeam Chemical Company, Chicago, Ill. "Don't Buy New Corsets." (For Dye-Soap.) No. 5,121; July 1; v. 264; p. 156.
- Sunbeam Chemical Company, Chicago, Ill. "Cleanses and Colors Instantly." (For Dye-Soap.) No. 5,122; July 1; v. 264; p. 156.
- Sunbeam Chemical Company, Chicago, Ill. "Dye It the Easiest Way." (For Dye-Soap.) No. 5,123; July 1; v. 264; p. 156.
- Sunbeam Chemical Company, Chicago, Ill. "The Charm of Youthful Colors." (For Dye-Soap.) No. 5,160; Aug. 12; v. 265; p. 304.
- Sunbeam Chemical Company, Chicago, Ill. "'Rit' Her Little Wardrobe." (For Dye-Soap.) No. 5,186; Dec. 30; v. 269; p. 883.
- Tasty Baking Company, Philadelphia, Pa. "Tastykake." (For Cake.) No. 5,085; Apr. 15; v. 261; p. 628.
- The Beckman Company, Cleveland, Ohio. "Construction Crew Blanket." (For Bed-Blankets.) No. 5,064; Feb. 25; v. 259; p. 776.
- The Dayton Steel Foundry Company, Dayton, Ohio. "Dayton Wheels—The Spokes Arch into the Rim with Broad Sweeping Curves." (For Wheels.) No. 5,065; Feb. 25; v. 259; p. 776.
- The Norton Laboratories, Portland, Me., and New York, N. Y. "Mg." (For Metallic Magnesium.) No. 5,066; Feb. 25; v. 259; p. 776.
- Thoms, C., San Francisco, Calif. "Thomas Awning Company." (For Awnings.) No. 5,134; July 8; v. 264; p. 351.
- Travelight Mfg. Co., Philadelphia, Pa. "Radium Lighted Dials." (For Watch and Clock Dials.) No. 5,105; May 20; v. 262; p. 480.
- Troy Underwear Co. Inc., Troy, N. Y. "Tuco Union Suits." (For Union-Suits.) No. 5,161; Aug. 12; v. 265; p. 304.
- Underwood Typewriter Company, New York, N. Y. "Discharged from Active Service." (For Type-Writing Machines.) No. 5,074; Mar. 25; v. 260; p. 730.
- Underwood Typewriter Company, New York, N. Y. "1919." (For Type-Writing Machines.) No. 5,075; Mar. 25; v. 260; p. 730.
- Underwood Typewriter Company, New York, N. Y. "From Service to Country." (For Type-Writing Machines.) No. 5,076; Mar. 25; v. 260; p. 730.
- Underwood Typewriter Company, New York, N. Y. "Peace." (For Type-Writing Machines.) No. 5,077; Mar. 25; v. 260; p. 730.
- Underwood Typewriter Company, New York, N. Y. "Approved." (For Type-Writing Machines.) No. 5,078; Mar. 25; v. 260; p. 730.
- Underwood Typewriter Company, New York, N. Y. "From War to Peace." (For Type-Writing Machines.) No. 5,079; Mar. 25; v. 260; p. 730.
- United Drug Company, Boston, Mass. "Why Do I Use Klezno." (For Tooth-Paste.) No. 5,050; Feb. 4; v. 259; p. 182.



*Alphabetical list of registrants of prints—Continued.*

- W. A. Sheaffer Pen Company, Fort Madison, Iowa; New York, N. Y.; Chicago, Ill.; Kansas City, Mo., and San Francisco, Calif. "Always Writes All Ways." (For Pencils and Fountain-Pens.) No. 5,162; Aug. 12; v. 265; p. 304.
- W. L. Douglas Shoe Co., Brockton and Boston, Mass.; Portland, Me.; New York and Buffalo, N. Y.; Denver, Colo., and Philadelphia, Pa. "W. L. Douglas Used to Lead the Old Plough Horse." (For Shoes.) No. 5,042; Jan. 28; v. 258; p. 812.
- W. L. Douglas Shoe Co., Brockton and Boston, Mass.; Portland, Me.; New York and Buffalo, N. Y.; Denver, Colo., and Philadelphia, Pa. "In 1866 W. L. Douglas Opened a Retail Shoe Store in Golden City, Colo." (For Shoes.) No. 5,043; Jan. 28; v. 258; p. 812.
- W. L. Douglas Shoe Co., Brockton and Boston, Mass.; Portland, Me.; New York and Buffalo, N. Y.; Denver, Colo., and Philadelphia, Pa. "Producing 48 Pairs of Shoes Per Day." (For Shoes.) No. 5,044; Jan. 28; v. 258; p. 812.
- W. L. Douglas Shoe Co., Brockton and Boston, Mass.; Portland, Me.; New York and Buffalo, N. Y.; Denver, Colo., and Philadelphia, Pa. "The World's Greatest Shoemaker." (For Shoes.) No. 5,045; Jan. 28; v. 258; p. 812.
- Ward Baking Company, New York, N. Y. "Fairy Sponge Chocolate Cream Cake." (For Cakes.) No. 5,170; Oct. 14; v. 267; p. 340.
- Whitlock Cordage Co., New York, N. Y. "Ropeconomy." (For Ropes and Cordage.) No. 5,163; Aug. 12; v. 265; p. 304.
- Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. "We Manufacture Over 257 Varieties." (For Crushers and Pulverizers of Limestone and Like Material and Reducing-Machines.) No. 5,051; Feb. 4; v. 259; p. 182.
- Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. "The Williams World Beater." (For Crushers and Pulverizers.) No. 5,086; Apr. 15; v. 261; p. 628.
- Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. "Fire Proof and Fool Proof Metal, Gravel and Sand Katcher." (For Catchers of Metal and Like Foreign Substances that May Enter with the Feed in Reducing-Mills.) No. 5,087; Apr. 15; v. 261; p. 628.
- Wills, Child H., Detroit, Mich. "Lafayette." (For Automobiles.) No. 5,165; Oct. 14; v. 267; p. 340.
- Wolf Advertising Co., New York, N. Y. "Ice Cream." (For Ice-Cream.) No. 5,088; Apr. 22; v. 261; p. 798.



## DISCLAIMERS.

- Curtis, Lewis E., Chicago, Ill.; disclaimer filed by assignee, Breckinridge Jones. Machine for expanding sheet metal. No. 796,402; disclaimer filed Dec. 8, 1919; v. 269; p. 399.
- Goodrum, Charles M., New York, N. Y.; disclaimer filed by patentee. Telephone-exchange system. No. 1,275,016; disclaimer filed May 10, 1919; v. 262; p. 319.
- Groh, Bernard C., Chicago, Ill.; disclaimer filed by patentee, the assignee, Automatic Electric Company, consenting. Automatic telephone system. No. 1,271,032; disclaimer filed Sept. 10, 1919; v. 266; p. 601.
- Jacobson, Edward B., Pittsfield, Mass.; disclaimer filed by assignee, J. & B. Manufacturing Company. Ignition-timer. No. 1,188,451; disclaimer filed Feb. 20, 1919; v. 259; p. 581.
- Jones, William, New York, N. Y.; disclaimer filed by patentee. Apparatus for the production of oxygen and hydrogen gases. No. 1,212,229; disclaimer filed Sept. 20, 1919; v. 267; p. 490.
- Juengst, Charles A., Croton Falls, N. Y.; disclaimer filed by patentee and assignee, George Juengst & Sons. Signature-conveying and wire-stitching machine. (Reissue.) No. 13,967; disclaimer filed March 6, 1919; v. 260; p. 211.
- Juengst, Charles A., Croton Falls, N. Y.; disclaimer filed by assignee, American Assembling Machine Company. Pamphlet-coverer. No. 1,244,861; disclaimer filed Apr. 8, 1919; v. 261; p. 633.
- Kennedy, David S., Brooklyn, N. Y.; disclaimer filed by patentee. Quad-block for slug-casting machines. No. 1,193,269; disclaimer filed Apr. 17, 1919; v. 261; p. 635.
- Overbury, Frederick C., Montclair, N. J.; disclaimer filed by patentee and assignee, The Flintkote Company. Making roofing elements. No. 1,154,334; disclaimer filed Nov. 22, 1919; v. 269; p. 192.
- Patterson, Samuel F., Baltimore, Md.; disclaimer filed by assignee, Rosemary Manufacturing Co. Power-loom. (Reissue.) No. 12,159; disclaimer filed Mar. 31, 1919; v. 261; p. 1.
- Perkins, Frank G., South Bend, Ind., deceased; Gertrude S. Perkins, executrix; disclaimer filed by assignee, Perkins Glue Company. Making glue. No. 1,020,656; disclaimer filed Feb. 6, 1919; v. 259; p. 187.
- Perkins, Frank G., deceased, South Bend, Ind.; Gertrude S. Perkins, executrix; disclaimer filed by assignee, Perkins Glue Company. Glue and making the same. (Reissue.) No. 13,436; disclaimer filed Feb. 6, 1919; v. 259; p. 187.
- Purple, George E., Chicago, Ill.; disclaimer filed by assignee, Flexible Steel Lacing Company. Belt-couplings. No. 938,511; disclaimer filed Dec. 15, 1919; v. 269; p. 551.
- Schoonmaker, Frederick W., Jr., Montclair, N. J.; disclaimer filed by assignee, Schoonmaker Laboratories, Inc. Nasal device. No. 1,143,731; disclaimer filed Nov. 3, 1919; v. 268; p. 568.
- State, Will C., Akron, Ohio; disclaimer filed by assignee, Frank A. Seiberling. Pneumatic-tire-shoe-manufacturing machine. No. 941,962; disclaimer filed Feb. 14, 1919; v. 259; p. 389.
- Weaver, Robert D., Detroit, Mich.; disclaimer filed by assignee, The Anderson Rolled Gear Company. Hot-rolling machine. No. 1,241,482; disclaimer filed Sept. 20, 1919; v. 266; p. 601.
- Weeks, Frank W., New York, N. Y.; disclaimer filed by the assignee, by mesne assignments, Animated Target Company, Inc. Cinematograph target apparatus. No. 1,197,567; disclaimer filed Aug. 7, 1919; v. 265; p. 311.
- Welch, Thomas C., Chicago, Ill.; disclaimer filed by assignees, James Rowe and American Assembling Machine Company. Automatic continuous book-trimming machine. No. 1,076,726; disclaimer filed Nov. 15, 1919; v. 269; p. 191.
- Wolfsberg, Richard, and S. C. Smith, Los Angeles, Calif.; disclaimer filed by assignee, Krantz Manufacturing Company, Inc. Circuit-breaker. No. 1,253,761; disclaimer filed Aug. 2, 1919; v. 265; p. 151.



# ALPHABETICAL LIST OF INVENTIONS

- Abdominal support I. Allison. No. 1,309,007; July 8; v. 264; p. 212.
- Abdominal supporter. E. M. Coyne. No. 1,316,771; Sept. 23; v. 266; p. 496.
- Abrading device. J. B. Gilbert. No. 1,298,689; Apr. 1; v. 261; p. 15.
- Abrading-disk. J. A. Hickey. No. 1,290,990; Jan. 14; v. 258; p. 259.
- Abrading-machine, Electrically-operated. N. G. Olson. No. 1,295,359; Feb. 25; v. 259; p. 643.
- Abrasive and making same. W. Strutt. No. 1,324,215; Dec. 9; v. 269; p. 231.
- Abrasive material and making same. N. C. Harrison. No. 1,314,061; Aug. 26; v. 265; p. 501.
- Abrasive tool. E. Kleinhample. No. 1,321,759; Nov. 11; v. 268; p. 329.
- Abrasive tool and making same. C. R. King. No. 1,325,504; Dec. 16; v. 269; p. 534.
- Abrasive wheel. H. C. Martin. No. 1,310,360; July 15; v. 264; p. 498.
- Abrasive wheel. H. R. Power. No. 1,310,291; July 15; v. 264; p. 486.
- Abrasive wheel. H. R. Power. No. 1,310,292; July 15; v. 264; p. 486.
- Abrasive wheel. J. H. Woodington and C. A. Young. No. 1,308,019; June 24; v. 263; p. 614.
- Abrasive wheel and making same, Lubricating. L. L. Katzenstein. No. 1,325,503; Dec. 16; v. 269; p. 534.
- Abrasives, Manufacture of artificial. A. T. Snodgrass. No. 1,314,835; Sept. 2; v. 266; p. 67.
- Absorbent. A. B. Lamb and C. R. Hoover. No. 1,321,061; Nov. 4; v. 268; p. 133.
- Absorption apparatus. H. Torrance. No. 1,311,627; July 29; v. 264; p. 797.
- Accelerations, Device for measuring. J. Carlier. No. 1,317,072; Sept. 23; v. 266; p. 551.
- Accelerator, Foot-controlled. T. Lind. No. 1,301,580; Apr. 22; v. 261; p. 732.
- Accelerator-pedal. J. A. Mahr. No. 1,320,561; Nov. 4; v. 268; p. 38.
- Accident-brake. E. S. Hardie. No. 1,291,496; Jan. 14; v. 258; p. 377.
- Accordion reed-box. Z. Burch. No. 1,311,752; July 29; v. 264; p. 821.
- Account-book. C. E. Singletary. No. 1,316,114; Sept. 16; v. 269; p. 323.
- Account-pad. E. S. Farrington. No. 1,299,316; Apr. 1; v. 261; p. 159.
- Account-register. A. N. Thomas. No. 1,325,965; Dec. 23; v. 269; p. 638.
- Account register, Credit-. H. A. Martin. No. 1,307,591; June 24; v. 263; p. 535.
- Accounts by banks, Means for facilitating the keeping of thrift. A. L. Johnston, Jr. No. 1,315,773; Sept. 9; v. 266; p. 245.
- Accounting and paying machine, Pay-roll. M. H. Mann. No. 1,311,174; July 29; v. 264; p. 713.
- Accounting-machine platen mechanism. A. H. Hawley. No. 1,295,307; Feb. 25; v. 259; p. 630.
- Accounting-machine, Ticket-issuing. F. Skerl. No. 1,290,381; Jan. 7; v. 258; p. 88.
- Accounting-machine, Ticket-issuing. F. Skerl. No. 1,302,600; May 6; v. 262; p. 22.
- Accounting-machine handle. A. H. Hawley. No. 1,311,394; July 29; v. 264; p. 754.
- Accounting-machines, Counter for. J. Powers. No. 1,312,807; Aug. 12; v. 265; p. 212.
- Accounting, Means and method for. C. H. Tallmadge. No. 1,319,914; Oct. 28; v. 267; p. 539.
- Accounting mechanism. C. H. Tallmadge. No. 1,301,795; Apr. 22; v. 261; p. 776.
- Accounting-sheet. R. R. King. No. 1,323,226; Nov. 25; v. 268; p. 707.
- Accumulator-cell. C. M. Angell. No. 1,319,940; Oct. 28; v. 267; p. 544.
- Accumulator safety device. R. H. Aldrich. No. 1,320,306; Oct. 28; v. 267; p. 612.
- Acetaldehyde, Manufacture of. E. Steinbuch and P. Schetelig. No. 1,319,365; Oct. 21; v. 267; p. 412.
- Acetaldehyde, Preparation of. G. O. Curme, Jr. No. 1,315,543; Sept. 9; v. 266; p. 205.
- Acetals, Manufacture of. A. T. King and F. A. Mason. No. 1,312,186; Aug. 5; v. 265; p. 63.
- Acetates from waste soda liquors, &c., Production of. V. Drewsen. No. 1,298,478; Mar. 25; v. 260; p. 674.
- Acetic aldehyde, Manufacture of. H. Dreyfus. No. 1,310,743; July 22; v. 264; p. 600.
- Acetic aldehyde, Manufacture of. H. Dreyfus. No. 1,310,984; July 22; v. 264; p. 644.
- Acetic anhydrid and acetaldehyde, Production of. J. Koetschet and M. Beudet. No. 1,298,356; Mar. 25; v. 260; p. 647.
- Acetic anhydrid and acetic aldehyde or acid, Production of. J. Koetschet and M. Beudet. No. 1,306,963; June 17; v. 263; p. 388.
- Acetic anhydrid, Concentrating. L. S. Finch. No. 1,311,158; July 29; v. 264; p. 710.
- Acetone and alcohol by bacteriological processes, Production of. C. Weizmann. No. 1,315,585; Sept. 9; v. 266; p. 213.
- Acetone, Making. H. A. Morton. No. 1,315,525; Sept. 9; v. 266; p. 202.
- Acetone, Production of. J. H. Northrop. No. 1,293,172; Feb. 4; v. 259; p. 46.
- Acetylene-burner. G. P. Washburn. No. 1,311,731; July 29; v. 264; p. 817.
- Acetylene from organic liquid, Electrochemical method and apparatus of producing synthetic. G. O. Curme, Jr. No. 1,315,540; Sept. 9; v. 266; p. 204.
- Acetylene-gas generator. H. F. Prillwitz. No. 1,319,966; Oct. 28; v. 267; p. 549.
- Acetylene generation, Treating sludge from. J. H. Cohn. No. 1,319,206; Oct. 21; v. 267; p. 882.
- Acetylene-generator. C. J. and G. J. Cleifton. No. 1,305,254; June 3; v. 263; p. 4.
- Acetylene-generator. L. Girodo. No. 1,313,810; Aug. 19; v. 265; p. 420.
- Acetylene-generator. A. F. Jenkins. No. 1,292,327; Jan. 21; v. 258; p. 610.
- Acetylene-generator. A. F. Jenkins. No. 1,304,686; May 27; v. 262; p. 518.
- Acetylene-generator. A. F. Jenkins. No. 1,317,706; Oct. 7; v. 267; p. 9.
- Acetylene-generator. F. A. Ruckman. No. 1,313,607; Aug. 19; v. 265; p. 382.
- Acid and apparatus for use in connection therewith, Concentrating nitric. F. C. Zeisberg. No. 1,292,948; Jan. 28; v. 258; p. 779.
- Acid and apparatus therefor, Concentrating nitric. J. D. Davis. No. 1,314,485; Aug. 26; v. 265; p. 582.
- Acid and compounds of the same, Method of and apparatus for producing phosphoric. F. S. Washburn. No. 1,314,229; Aug. 26; v. 265; p. 534.
- Acid and making same, Methyl-amino-isopropyl-benzene-sulfonic. C. E. Andrews. No. 1,314,927; Sept. 2; v. 266; p. 83.
- Acid and other liquids, Apparatus for fractional distillation of sulfuric. H. Jander. No. 1,321,210; Nov. 11; v. 268; p. 224.
- Acid and producing phenol, Recovering benzene monosulfonic. M. L. Hamlin. No. 1,309,683; July 15; v. 264; p. 376.
- Acid and salts thereof, Production of hydrofluoric. R. S. Sherwin. No. 1,301,325; Apr. 22; v. 261; p. 685.
- Acid and teroxid of nitrogen, Producing pure concentrated nitric. O. Jensen. No. 1,324,255; Dec. 9; v. 269; p. 239.
- Acid anhydrids and chlorids, Manufacture of organic. T. H. Durraans. No. 1,326,040; Dec. 23; v. 269; p. 652.
- Acid, Apparatus for and method of concentrating sulfuric. J. Patten. No. 1,294,827; Feb. 18; v. 259; p. 499.
- Acid, Apparatus for condensing and utilizing hydrofluoric. R. S. Sherwin. No. 1,294,546; Feb. 18; v. 259; p. 432.
- Acid, Chamber used in the manufacture of sulfuric. W. Mills and C. T. Packard. No. 1,312,741; Aug. 12; v. 265; p. 198.
- Acid, Chamber used in the manufacture of sulfuric. W. G. Mills and C. T. Packard. No. 1,312,742; Aug. 12; v. 265; p. 199.
- Acid-coke, Utilization of. G. L. Prichard. No. 1,290,345; Jan. 7; v. 258; p. 81.
- Acid, Concentration of sulfuric. A. Dryen. No. 1,323,847; Dec. 2; v. 269; p. 117.
- Acid, Concentration of sulfuric. F. Perrin. No. 1,301,598; Apr. 22; v. 261; p. 736.
- Acid, Contact process for making sulfuric. H. H. Meyers. No. 1,314,280; Aug. 26; v. 265; p. 544.
- Acid from acetaldehyde, Manufacture of acetic. H. Dreyfus. No. 1,308,173; July 1; v. 264; p. 31.
- Acid from crude sodium nitrate, Production of methyl borate and boric. R. P. Calvert and O. L. Thomas. No. 1,308,576; July 1; v. 264; p. 104.
- Acid from mixtures containing borates, Obtaining boric. R. P. Calvert and O. L. Thomas. No. 1,308,577; July 1; v. 264; p. 104.
- Acid from sludge, Process of producing hydrochloric. H. M. Lasher. No. 1,309,206; July 8; v. 264; p. 249.
- Acid gas and separating silicic acid therefrom, Apparatus for absorbing hydrofluosilicic. K. F. Stahl. No. 1,315,250; Sept. 9; v. 266; p. 152.
- Acid, Handling of nitroxyl sulfuric. O. Jensen. No. 1,319,586; Oct. 21; v. 267; p. 454.
- Acid, Isobutyl ester of oleic. E. Preiswerk. No. 1,318,461; Oct. 14; v. 267; p. 214.
- Acid, Making sulfuric. H. M. Weber. No. 1,291,306; Jan. 14; v. 258; p. 332.
- Acid, Manufacture of monochloroacetic. L. Simon and G. Chavanne. No. 1,304,108; May 20; v. 262; p. 368.



- Acid, Manufacture of naphthalene trisulfonic. L. A. Pratt and F. N. Brink. No. 1,311,090; July 22; v. 264; p. 664.
- Acid, Manufacture of sulfuric. E. D. Chaplin. No. 1,325,712; Dec. 23; v. 269; p. 591.
- Acid, Manufacture of synthetic carbolic. F. Cobellis. No. 1,301,909; Apr. 29; v. 261; p. 828.
- Acid, Manufacturing lactic. G. A. Richter. No. 1,305,623; June 3; v. 263; p. 76.
- Acid, Manufacturing oxalic. H. C. Reed. No. 1,310,713; July 22; v. 264; p. 594.
- Acid, Method and apparatus for concentrating sulfuric. A. B. Newman. No. 1,294,525; Feb. 18; v. 259; p. 428.
- Acid, Method of and apparatus for producing liquid hydrocyanic. W. G. Dingle. No. 1,304,745; May 27; v. 262; p. 529.
- Acid mine-water, Recovering by-products from. E. C. Auld and J. R. Campbell. No. 1,310,384; July 15; v. 264; p. 502.
- Acid mine-water, Treating. E. C. Auld and J. R. Campbell. No. 1,310,383; July 15; v. 264; p. 502.
- Acid, Oxidation of ammonia to nitric. A. Henwood. No. 1,309,622; July 15; v. 264; p. 364.
- Acid-phosphate apparatus. R. E. Forbis. No. 1,318,063; Oct. 7; v. 267; p. 77.
- Acid, Preparation of acetic. G. O. Curme, Jr. No. 1,315,546; Sept. 9; v. 266; p. 205.
- Acid, Preparing acetone from acetic. G. O. Curme, Jr. No. 1,315,544; Sept. 9; v. 266; p. 205.
- Acid, Producing anthranilic. R. S. Potter. No. 1,322,052; Nov. 18; v. 268; p. 433.
- Acid, Producing hydrofluoric. E. S. Fickes. No. 1,316,569; Sept. 23; v. 266; p. 458.
- Acid, Producing nitric. W. S. Landis. No. 1,292,814; Jan. 28; v. 258; p. 747.
- Acid, Production of maleic. J. M. Weiss and C. R. Downs. No. 1,318,632; Oct. 14; v. 267; p. 247.
- Acid, Purification of acetyl salicylic. H. Hibbert. No. 1,321,307; Nov. 11; v. 268; p. 243.
- Acid, Recovering. H. G. Stone. No. 1,314,765; Sept. 2; v. 266; p. 54.
- Acid, Recovering hydrocyanic. G. H. Buchanan. No. 1,317,755; Oct. 7; v. 267; p. 18.
- Acid starting from trichlorethylene, Preparation of monochloroacetic. A. Guyot. No. 1,322,898; Nov. 25; v. 268; p. 644.
- Acid steel, Making. W. R. Walker. No. 1,309,496; July 8; v. 264; p. 303.
- Acid, Synthetically producing tropic. E. Müller. No. 1,305,301; June 3; v. 263; p. 14.
- Acid-tank. W. J. Russell. No. 1,315,241; Sept. 9; v. 266; p. 150.
- Acid vapors, Condenser for nitric. A. Hough. No. 1,326,267; Dec. 30; v. 269; p. 732.
- Acids and other similar compounds of said acids, Alkamin esters of alkoxy-amino-benzoic. E. A. Wildman. No. 1,317,250; Sept. 30; v. 266; p. 621.
- Acids and other similar compounds of said acids, Alkamin esters of amino-toluic. E. A. Wildman. No. 1,317,251; Sept. 30; v. 266; p. 621.
- Acids containing an arsenoarylamine group, Aliphatic. K. J. Oechslein. No. 1,299,214; Apr. 1; v. 261; p. 136.
- Acids containing an arsenoarylamine group, Aliphatic. K. J. Oechslein. No. 1,299,215; Apr. 1; v. 261; p. 136.
- Acids for splitting, Using sludge sulfonic. R. E. Divine. No. 1,319,027; Oct. 14; v. 267; p. 323.
- Acids, Manufacture of. E. D. Chaplin. No. 1,325,711; Dec. 23; v. 269; p. 591.
- Acids, Manufacture of aromatic sulfonic. J. A. Ambler and H. D. Gibbs. No. 1,300,227; Apr. 8; v. 261; p. 391.
- Acids, Manufacture of benzene sulfonic. J. A. Ambler and H. D. Gibbs. No. 1,300,228; Apr. 8; v. 261; p. 391.
- Acids, Manufacture of cymene sulfonic. J. A. Ambler, H. A. Lubs, and H. D. Gibbs. No. 1,316,823; Sept. 23; v. 266; p. 505.
- Acids, Manufacture of easily-soluble compounds of the C. C-dialkylbarbituric. H. Kubil. No. 1,316,047; Sept. 16; v. 266; p. 311.
- Acids with 2-phenyl quinolin 4-carboxylic acid, Compounds of halogen. H. W. Rhodehamel. No. 1,306,439; June 10; v. 263; p. 259.
- Acoustic apparatus. E. E. Clement. No. 1,306,248; June 10; v. 263; p. 224.
- Acoustic apparatus, Electropneumatic. J. S. Hooghiemstra. No. 1,318,874; Oct. 14; v. 267; p. 293.
- Acoustic element. J. Mazer. No. 1,318,574; Oct. 14; v. 267; p. 236.
- Adapter. E. W. Davis. No. 1,294,333; Feb. 11; v. 259; p. 348.
- Adding and listing machine, Ten-key. O. D. Johantgen. No. 1,301,941; Apr. 29; v. 261; p. 834.
- Adding and subtracting machine. J. P. Harrison, Jr. No. 1,319,070; Oct. 21; v. 267; p. 355.
- Adding and subtracting machine. T. J. Wavrunek. No. 1,294,853; Feb. 18; v. 259; p. 565.
- Adding and type-writing machine. F. W. B. Schoradt. No. 1,313,230; Aug. 12; v. 265; p. 295.
- Adding device. R. Reinbold. No. 1,290,354; Jan. 7; v. 258; p. 82.
- Adding device, Mechanical. C. R. Martineau. No. 1,324,460; Dec. 9; v. 269; p. 279.
- Addressing-machine. C. A. Cheshire. No. 1,295,123; Feb. 25; v. 259; p. 589.
- Addressing-machine. C. A. Cheshire. No. 1,297,443; Mar. 18; v. 260; p. 428.
- Adding-machine. R. Herbst. No. 1,293,094; Feb. 4; v. 259; p. 28.
- Adding-machine. A. A. Horton. No. 1,308,787; July 8; v. 264; p. 171.
- Adding-machine. A. A. Horton. No. 1,323,475; Dec. 2; v. 269; p. 48.
- Adding-machine. A. A. Horton. No. 1,326,504; Dec. 30; v. 269; p. 776.
- Adding-machine. O. D. Johantgen. No. 1,306,112; June 10; v. 263; p. 196.
- Adding-machine. F. A. Niemann. No. 1,309,692; July 15; v. 264; p. 377.
- Adding-machine. A. Pentecost. No. 1,302,965; May 6; v. 262; p. 93.
- Adding-machine. H. C. Peters. No. 1,310,963; July 22; v. 264; p. 640.
- Adding-machine. W. P. Quentell. No. 1,318,799; Oct. 14; v. 267; p. 278.
- Adding-machine. F. C. Rinsche. No. 1,325,681; Dec. 23; v. 269; p. 586.
- Adding-machine. F. C. Rinsche. No. 1,325,803; Dec. 23; v. 269; p. 608.
- Adding-machine. F. W. B. Schoradt. No. 1,313,231; Aug. 12; v. 265; p. 295.
- Adding-machine. W. H. Smith. No. 1,325,212; Dec. 16; v. 269; p. 481.
- Adding-machine. W. W. Talbot. No. 1,298,599; Mar. 25; v. 260; p. 700.
- Adding-machine. J. G. Vincent. No. 1,323,505; Dec. 2; v. 269; p. 53.
- Adding-machine attachment. O. L. Reiser. No. 1,295,795; Feb. 25; v. 259; p. 744.
- Adding-machine attachment. J. L. Walker. No. 1,290,432; Jan. 7; v. 258; p. 100.
- Adding-machine-controlling device. W. P. Quentell. No. 1,318,798; Oct. 14; v. 267; p. 278.
- Adding-machine multiplying-key. J. H. Hopkins. No. 1,320,618; Nov. 4; v. 268; p. 49.
- Adding-machine, Positive and negative total. J. P. Harrison, Jr. No. 1,323,857; Dec. 2; v. 269; p. 119.
- Adding-machine time-switch. F. C. Rinsche. No. 1,310,965; July 22; v. 264; p. 641.
- Adding-machines, Automatic naught-stop for. W. W. Lasker. No. 1,309,898; July 15; v. 264; p. 415.
- Adding or calculating machine. D. S. McElroy. No. 1,308,548; July 1; v. 264; p. 98.
- Addressing and duplicating machine, Rotary. C. E. Bower. No. 1,317,683; Oct. 7; v. 267; p. 5.
- Addressing machine, Hand-. J. S. Duncan. No. 1,301,237; Apr. 22; v. 261; p. 667.
- Addressing-machines, Printing-device separator for. J. S. Duncan. No. 1,299,437; Apr. 8; v. 261; p. 215.
- Adhesive. W. M. Grosvenor. No. 1,311,964; Aug. 5; v. 265; p. 21.
- Adhesive and making same. J. Alexander. No. 1,300,097; Apr. 8; v. 261; p. 363.
- Adhesive and making same. J. S. Robeson. No. 1,292,068; Jan. 21; v. 258; p. 548.
- Adhesive and making same. J. B. B. Stryker. No. 1,299,809; Apr. 8; v. 261; p. 300.
- Adhesive and the like. J. Alexander. No. 1,300,096; Apr. 8; v. 261; p. 363.
- Adhesive material. A. E. Jury. No. 1,292,333; Jan. 21; v. 258; p. 612.
- Adhesive material, Making. C. H. Crowell. No. 1,300,250; Apr. 15; v. 261; p. 422.
- Adhesive, Moisture-proof. S. B. Field. No. 1,307,247; June 17; v. 263; p. 439.
- Adhesive surface and preparing same. C. E. Schoder. No. 1,297,406; Mar. 18; v. 260; p. 420.
- Adhesives, &c., Extraction from corncobs of material suitable for use as. K. P. Monroe. No. 1,317,380; Sept. 30; v. 266; p. 646.
- Adhesives or binders, Manufacture of. W. H. Dickerson. No. 1,290,118; Jan. 7; v. 258; p. 26.
- Adhesives, Production of. V. G. Bloede. No. 1,324,332; Dec. 9; v. 269; p. 253.
- Adjustable chair. G. Sombra. No. 1,324,013; Dec. 2; v. 269; p. 149.
- Adjustable chair and cot, Combined. C. C. Chittim. No. 1,306,102; June 10; v. 263; p. 194.
- Adjustable clamp. S. Cohn. No. 1,292,712; Jan. 28; v. 258; p. 724.
- Adjustable drill-jig. G. E. Swartz. No. 1,312,767; Aug. 12; v. 265; p. 204.
- Adjustable hanger. S. M. Hino. No. 1,307,669; June 24; v. 263; p. 549.
- Adjustable hanger. I. F. Shank. No. 1,311,779; July 29; v. 264; p. 825.
- Adjustable level-stand. D. Hatch. No. 1,308,630; July 1; v. 264; p. 114.
- Adjustable pattern. T. W. Spellman. No. 1,291,221; Jan. 14; v. 258; p. 312.
- Adjustable S-wrench. J. McCraith. No. 1,321,236; Nov. 11; v. 268; p. 229.



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- Adjustable seat. R. L. Leatherman and F. Pfrogner. No. 1,326,069; Dec. 23; v. 269; p. 658.  
 Adjustable stand. M. Tymczyna. No. 1,293,253; Feb. 4; v. 259; p. 64.  
 Adjustable stilt. P. E. Glafcke. No. 1,312,904; Aug. 12; v. 265; p. 230.  
 Adjustable table. J. F. Wilson. No. 1,319,445; Oct. 21; v. 267; p. 427.  
 Adjustable wrench, Automatically-. A. Sporup. No. 1,305,571; June 3; v. 263; p. 65.  
 Adjusting mechanism. C. W. Thomas. No. 1,300,047; Apr. 8; v. 261; p. 351.  
 Advertising apparatus. A. W. Linn. No. 1,298,977; Apr. 1; v. 261; p. 84.  
 Advertising attachment to wheel-rims. C. F. Dencklau. No. 1,309,464; July 8; v. 264; p. 297.  
 Advertising device. L. S. Barr and B. S. Simmons. No. 1,301,216; Apr. 22; v. 261; p. 663.  
 Advertising device. R. T. Bell. No. 1,306,739; June 17; v. 263; p. 347.  
 Advertising device. P. Campbell. No. 1,325,979; Dec. 23; v. 269; p. 641.  
 Advertising device. T. Dougherty. No. 1,317,561; Sept. 30; v. 266; p. 681.  
 Advertising device. J. Drexler and J. Hollo. No. 1,290,724; Jan. 7; v. 258; p. 172.  
 Advertising device. A. Eastman. No. 1,313,173; Aug. 12; v. 265; p. 284.  
 Advertising device. C. Garcillan. No. 1,303,650; May 13; v. 262; p. 246.  
 Advertising device. H. K. Harris. No. 1,313,816; Aug. 19; v. 265; p. 421.  
 Advertising device. H. K. Harris. No. 1,313,817; Aug. 19; v. 265; p. 421.  
 Advertising device. H. Huerta. No. 1,312,632; Aug. 12; v. 265; p. 178.  
 Advertising device. J. D. Noble. No. 1,321,662; Nov. 11; v. 268; p. 310.  
 Advertising device. R. Padilla. No. 1,313,110; Aug. 12; v. 265; p. 272.  
 Advertising device. C. Phelps. No. 1,320,270; Oct. 28; v. 267; p. 605.  
 Advertising device. H. Verran and A. R. Groetz. No. 1,321,863; Nov. 18; v. 268; p. 399.  
 Advertising device. A. F. Ward. No. 1,290,688; Jan. 7; v. 258; p. 163.  
 Advertising device. G. P. Wrigley. No. 1,298,621; Mar. 25; v. 260; p. 704.  
 Advertising device, Electrical. G. S. Peters. No. 1,293,187; Feb. 4; v. 259; p. 49.  
 Advertising devices and the like, Recording apparatus for. H. K. Harris. No. 1,291,863; Jan. 21; v. 258; p. 495.  
 Advertising-machine. A. J. Edwards. No. 1,326,396; Dec. 30; v. 269; p. 755.  
 Advertising-machine. P. G. Scott. No. 1,306,975; June 17; v. 263; p. 390.  
 Advertising medium, cash-voucher, and ticket, Combined. W. H. Albert. No. 1,317,536; Sept. 30; v. 266; p. 676.  
 Advertising or display device. J. Strandera. No. 1,313,351; Aug. 19; v. 265; p. 333.  
 Advertising or signaling apparatus. C. M. Tatossian. No. 1,301,620; Apr. 22; v. 261; p. 740.  
 Advertising projecting device. C. Erskine. No. 1,290,947; Jan. 14; v. 258; p. 251.  
 Aerating liquescent material and machine for the purpose. M. Hopkins and C. Brunkhurst. No. 1,308,904; July 8; v. 264; p. 192.  
 Aeration and emulsifying pulp for flotation, Device for. C. Taylor. No. 1,299,059; Apr. 1; v. 261; p. 102.  
 Aerial artillery. C. Davis. No. 1,311,791; July 29; v. 264; p. 828.  
 Aerial bomb. J. J. McIntyre. No. 1,312,998; Aug. 12; v. 265; p. 249.  
 Aerial bomb. F. L. Morgan. No. 1,322,495; Nov. 18; v. 268; p. 518.  
 Aerial bomb. B. A. Sigler. No. 1,312,005; Aug. 5; v. 265; p. 28.  
 Aerial bomb. M. Soloun. No. 1,312,212; Aug. 5; v. 265; p. 67.  
 Aerial bombs, Receptacle for incendiary. A. Chanard. No. 1,313,068; Aug. 12; v. 265; p. 263.  
 Aerial camera. F. A. Todd. No. 1,313,564; Aug. 19; v. 265; p. 374.  
 Aerial carrier. W. D. Sherman and F. W. Harris. No. 1,318,114; Oct. 7; v. 267; p. 86.  
 Aerial conveyer. R. S. Moore. No. 1,314,202; Aug. 26; v. 265; p. 528.  
 Aerial craft, Bomb-hopper for. E. S. Brower. No. 1,310,053; July 15; v. 264; p. 442.  
 Aerial explosive device. L. P. Barlow. No. 1,325,776; Dec. 23; v. 269; p. 603.  
 Aerial illuminating device. H. E. S. Holt. No. 1,312,499; Aug. 5; v. 265; p. 121.  
 Aerial machine. A. J. Fortescue. No. 1,290,831; Jan. 7; v. 258; p. 197.  
 Aerial machine. W. Pain. No. 1,309,152; July 8; v. 264; p. 240.  
 Aerial-machine fuel-feed system. L. Coatalen. No. 1,299,128; Apr. 1; v. 261; p. 117.  
 Aerial machines, Means for stabilizing and controlling the flight of. J. E. H. Guest. No. 1,311,389; July 29; v. 264; p. 753.  
 Aerial navigating-machines, Auxiliary power attachment for. J. F. Webb, Sr. No. 1,295,648; Feb. 25; v. 259; p. 710.  
 Aerial-navigation apparatus, Bracket-seat for passengers on. E. Letord. No. 1,303,076; May 6; v. 262; p. 113.  
 Aerial-navigation instrument. H. E. Wimperis. No. 1,315,065; Sept. 2; v. 266; p. 109.  
 Aerial-observation instrument. R. F. Power. No. 1,311,994; Aug. 5; v. 265; p. 26.  
 Aerial observation instrument. R. Fitz Power. No. 1,324,519; Dec. 9; v. 269; p. 290.  
 Aerial ropeway and the like. W. H. Watkins. No. 1,313,357; Aug. 19; v. 265; p. 334.  
 Aerial ropeways and the like, Tractor for. W. H. Watkins. No. 1,313,358; Aug. 19; v. 265; p. 335.  
 Aerial torpedo. G. Rossi. No. 1,307,928; June 24; v. 263; p. 597.  
 Aerial torpedo or mine. M. Wildrick. No. 1,311,785; July 29; v. 264; p. 826.  
 Aerial torpedoes, Launching device for. T. J. Kinser. No. 1,317,631; Sept. 30; v. 266; p. 694.  
 Aerial transporting system. L. Everding. No. 1,299,314; Apr. 1; v. 261; p. 159.  
 Aerial vessels, Antenna construction for. A. W. Schramm. No. 1,307,155; June 17; v. 263; p. 423.  
 Aerial weapon. M. C. Stearns. No. 1,309,156; July 8; v. 264; p. 240.  
 Aero-bomb. F. J. Chambers. No. 1,317,551; Sept. 30; v. 266; p. 679.  
 Aero-bombs, Illuminating. S. Wiley, Jr. No. 1,319,636; Oct. 21; v. 267; p. 464.  
 Aero-bombs, Time-fuse for. S. Wiley, Jr. No. 1,319,635; Oct. 21; v. 267; p. 464.  
 Aero-gradometer. R. Goddard. No. 1,300,602; Apr. 15; v. 261; p. 497.  
 Aero safety device. A. D. Austin. No. 1,296,736; Mar. 11; v. 260; p. 243.  
 Aerofoil construction. N. W. Dalton. No. 1,296,775; Mar. 11; v. 260; p. 252.  
 Aeronautical apparatus. H. W. Schmidt. No. 1,290,669; Jan. 7; v. 258; p. 159.  
 Aeronautical machine. J. R. Porter. No. 1,291,126; Jan. 14; v. 258; p. 291.  
 Aeroplane. P. Allinio. No. 1,292,415; Jan. 28; v. 258; p. 651.  
 Aeroplane. A. Ania. No. 1,312,300; Aug. 5; v. 265; p. 83.  
 Aeroplane. L. Atwood. No. 1,325,685; Dec. 23; v. 269; p. 586.  
 Aeroplane. O. W. Boyea. No. 1,299,111; Apr. 1; v. 261; p. 113.  
 Aeroplane. G. A. Brewer. No. 1,307,806; June 24; v. 263; p. 574.  
 Aeroplane. W. P. Butusov. No. 1,323,829; Dec. 2; v. 269; p. 114.  
 Aeroplane. L. Cammen. No. 1,294,234; Feb. 11; v. 259; p. 326.  
 Aeroplane. H. Campbell. No. 1,308,657; July 1; v. 264; p. 119.  
 Aeroplane. F. Caproni. No. 1,302,508; May 6; v. 262; p. 6.  
 Aeroplane. V. V. Carson. No. 1,300,927; Apr. 15; v. 261; p. 566.  
 Aeroplane. F. A. Cerrute. No. 1,310,389; July 15; v. 264; p. 503.  
 Aeroplane. L. Chauvière. No. 1,308,164; July 1; v. 264; p. 29.  
 Aeroplane. H. M. Chiron. No. 1,305,524; June 3; v. 263; p. 55.  
 Aeroplane. R. Christie. No. 1,295,272; Feb. 25; v. 259; p. 623.  
 Aeroplane. M. B. Cumber. No. 1,295,970; Mar. 4; v. 260; p. 35.  
 Aeroplane. M. E. Dare. No. 1,319,211; Oct. 21; v. 267; p. 383.  
 Aeroplane. L. B. Dorr. No. 1,303,544; May 13; v. 262; p. 228.  
 Aeroplane. W. S. Eaton. No. 1,290,136; Jan. 7; v. 258; p. 30.  
 Aeroplane. R. E. Gipple. No. 1,318,070; Oct. 7; v. 267; p. 78.  
 Aeroplane. L. Goldmerstein. No. 1,294,083; Feb. 11; v. 259; p. 289.  
 Aeroplane. C. Gray. No. 1,324,393; Dec. 9; v. 269; p. 266.  
 Aeroplane. L. M. M. Hall. No. 1,298,338; Mar. 25; v. 260; p. 643.  
 Aeroplane. R. Hanriot and F. Gratieux. No. 1,311,967; Aug. 5; v. 265; p. 21.  
 Aeroplane. R. Hanriot and F. Gratieux. No. 1,311,968; Aug. 5; v. 265; p. 22.  
 Aeroplane. W. C. Higley. No. 1,305,466; June 3; v. 263; p. 45.  
 Aeroplane. J. A. Horne. No. 1,300,969; Apr. 15; v. 261; p. 574.  
 Aeroplane. H. A. Johnson. No. 1,310,344; July 15; v. 264; p. 495.  
 Aeroplane. J. F. Jones. No. 1,290,836; Jan. 7; v. 258; p. 198.  
 Aeroplane. D. X. Kelly. No. 1,312,548; Aug. 12; v. 265; p. 161.



- Aeroplane. J. F. Kinney. No. 1,296,528; Mar. 4; v. 260; p. 159.
- Aeroplane. K. Kurose. No. 1,291,679; Jan. 14; v. 258; p. 420.
- Aeroplane. A. G. Leigh. No. 1,313,828; Aug. 19; v. 265; p. 423.
- Aeroplane. C. A. Lind. No. 1,304,187; May 20; v. 262; p. 383.
- Aeroplane. F. H. Luense. No. 1,320,772; Nov. 4; v. 268; p. 77.
- Aeroplane. L. Marschall. No. 1,291,989; Jan. 21; v. 258; p. 528.
- Aeroplane. C. Matthews and C. S. Hall. No. 1,307,826; June 24; v. 263; p. 578.
- Aeroplane. J. W. Millican. No. 1,290,841; Jan. 7; v. 258; p. 198.
- Aeroplane. B. E. Milmore. No. 1,295,398; Feb. 25; v. 259; p. 652.
- Aeroplane. C. C. Neiswander. No. 1,295,571; Feb. 25; v. 259; p. 693.
- Aeroplane. J. N. G. Nesbit. No. 1,298,773; Apr. 1; v. 261; p. 37.
- Aeroplane. D. Pecher. No. 1,296,551; Mar. 4; v. 260; p. 164.
- Aeroplane. L. S. Petchon. No. 1,311,576; July 29; v. 264; p. 788.
- Aeroplane. J. Porteous. No. 1,302,214; Apr. 29; v. 261; p. 884.
- Aeroplane. J. Richards. No. 1,325,377; Dec. 16; v. 269; p. 512.
- Aeroplane. N. Rippenbein. No. 1,309,961; July 15; v. 264; p. 427.
- Aeroplane. J. Sepniswicz. No. 1,322,632; Nov. 25; v. 268; p. 595.
- Aeroplane. M. Seymour. No. 1,326,535; Dec. 30; v. 269; p. 782.
- Aeroplane. D. W. Sharkey. No. 1,315,044; Sept. 2; v. 266; p. 105.
- Aeroplane. P. C. Shermer. No. 1,302,864; May 6; v. 262; p. 73.
- Aeroplane. C. A. Simmons. No. 1,308,997; July 8; v. 264; p. 210.
- Aeroplane. J. A. Simms. No. 1,297,264; Mar. 11; v. 260; p. 360.
- Aeroplane. S. S. Slotter. No. 1,302,235; Apr. 29; v. 261; p. 888.
- Aeroplane. T. B. Smith. No. 1,297,604; Mar. 18; v. 260; p. 462.
- Aeroplane. J. A. Spencer. No. 1,303,737; May 13; v. 262; p. 262.
- Aeroplane. G. J. Spohrer. No. 1,306,084; June 10; v. 263; p. 191.
- Aeroplane. G. C. St. Louis and C. Pearson. No. 1,326,220; Dec. 30; v. 269; p. 722.
- Aeroplane. C. E. and C. D. Stasey. No. 1,309,968; July 16; v. 264; p. 428.
- Aeroplane. F. S. Stirton. No. 1,297,032; Mar. 11; v. 260; p. 311.
- Aeroplane. W. P. Thompson. No. 1,301,196; Apr. 22; v. 261; p. 659.
- Aeroplane. C. Twining. No. 1,315,884; Sept. 9; v. 266; p. 267.
- Aeroplane. W. I. Twombly. No. 1,322,976; Nov. 25; v. 268; p. 659.
- Aeroplane. J. F. Webb, Sr. No. 1,295,649; Feb. 25; v. 259; p. 711.
- Aeroplane. J. F. Webb, Sr. No. 1,309,710; July 15; v. 264; p. 380.
- Aeroplane. C. L. Welsh. No. 1,296,578; Mar. 4; v. 260; p. 170.
- Aeroplane. M. Worbatch. No. 1,297,286; Mar. 11; v. 260; p. 366.
- Aeroplane. B. Zsarnay. No. 1,325,920; Dec. 23; v. 269; p. 630.
- Aeroplane and apparatus for launching and receiving same. F. W. Lancaster. No. 1,311,700; July 29; v. 264; p. 811.
- Aeroplane and gas-bag, Separable. J. N. Lewis. No. 1,306,348; June 10; v. 263; p. 243.
- Aeroplane and starting device. H. K. Lorentzen. No. 1,295,537; Feb. 25; v. 259; p. 685.
- Aeroplane and the like. H. F. Parker. No. 1,312,571; Aug. 12; v. 265; p. 166.
- Aeroplane and wing therefor. T. P. Brooke. No. 1,325,137; Dec. 16; v. 269; p. 467.
- Aeroplane-arresting apparatus. L. J. Le Mesurier. No. 1,315,320; Sept. 9; v. 266; p. 165.
- Aeroplane-body construction. A. K. Longren and F. Dove. No. 1,321,115; Nov. 11; v. 268; p. 206.
- Aeroplane body or cell. E. J. J. Salmson. No. 1,308,810; July 8; v. 264; p. 175.
- Aeroplane-brake. T. Sopwith. No. 1,293,228; Feb. 4; v. 259; p. 58.
- Aeroplane construction. O. T. Belcher. No. 1,311,205; July 29; v. 264; p. 719.
- Aeroplane construction. G. H. Curtiss. No. 1,295,084; Feb. 18; v. 259; p. 556.
- Aeroplane construction. H. Kleckler. No. 1,290,838; Jan. 7; v. 258; p. 198.
- Aeroplane construction. H. W. Rubinkam. No. 1,319,117; Oct. 21; v. 267; p. 364.
- Aeroplane control. E. G. La Voie. No. 1,303,568; May 13; v. 262; p. 232.
- Aeroplane control. R. F. Power. No. 1,296,848; Mar. 11; v. 260; p. 268.
- Aeroplane control. J. F. Verner. No. 1,304,420; May 20; v. 262; p. 429.
- Aeroplane-control bridge. H. Kleckler. No. 1,298,516; Mar. 25; v. 260; p. 683.
- Aeroplane. Controlling device for. C. R. Fairey. No. 1,313,681; Aug. 19; v. 265; p. 395.
- Aeroplane-controlling mechanism. W. H. Gettemy, Jr. No. 1,306,002; June 10; v. 263; p. 176.
- Aeroplane fabric and making same. W. G. Lindsay. No. 1,325,363; Dec. 16; v. 269; p. 509.
- Aeroplane-frame construction. E. H. Blazer. No. 1,302,293; Apr. 29; v. 261; p. 899.
- Aeroplane-fuselage. M. W. Perry. No. 1,299,858; Apr. 8; v. 261; p. 311.
- Aeroplane-fuselage. A. V. Roe. No. 1,323,103; Nov. 25; v. 268; p. 683.
- Aeroplane guiding and bomb-dropping appliance. E. E. Henderson. No. 1,294,907; Feb. 18; v. 259; p. 517.
- Aeroplane-gun. C. J. Cooke. No. 1,294,240; Feb. 11; v. 259; p. 327.
- Aeroplane-indicator. J. D. MacGillivray. No. 1,316,313; Sept. 16; v. 266; p. 361.
- Aeroplane-indicator. W. A. Walker. No. 1,291,299; Jan. 14; v. 258; p. 330.
- Aeroplane landing device. L. R. Accornero and A. Gaydou. No. 1,312,507; Aug. 12; v. 265; p. 153.
- Aeroplane landing-frame. E. J. J. Salmson. No. 1,310,716; July 22; v. 264; p. 595.
- Aeroplane landing-gear. L. S. Allen. No. 1,296,734; Mar. 11; v. 260; p. 243.
- Aeroplane landing-gear. P. G. Zimmermann. No. 1,298,625; Mar. 25; v. 260; p. 705.
- Aeroplane manufacture, Jig system for. G. Riffard. No. 1,303,596; May 13; v. 262; p. 237.
- Aeroplane-motors, Self-starter for. A. W. Backman. No. 1,307,231; June 17; v. 263; p. 436.
- Aeroplane or airship bomb-dropping apparatus. T. Yoshida. No. 1,290,858; Jan. 7; v. 258; p. 201.
- Aeroplane-parachute. C. Gray. No. 1,324,392; Dec. 9; v. 269; p. 365.
- Aeroplane parts, Connecting member for assembling and mounting. E. Letord. No. 1,315,561; Sept. 9; v. 266; p. 208.
- Aeroplane-propeller. C. A. Cutler. No. 1,301,108; Apr. 22; v. 261; p. 641.
- Aeroplane propeller and tractor. J. Ingells. No. 1,313,599; Aug. 19; v. 265; p. 380.
- Aeroplane-propelling device. N. L. Hyatt and H. Lloyd. No. 1,293,724; Apr. 1; v. 261; p. 24.
- Aeroplane-radiator. W. L. Gilmore and W. E. Valk, Jr. No. 1,296,790; Mar. 11; v. 260; p. 255.
- Aeroplane, Reconnoitering-. G. H. Curtiss. No. 1,323,842; Dec. 2; v. 269; p. 116.
- Aeroplane-rudder. C. A. Strom. No. 1,313,839; Aug. 19; v. 265; p. 425.
- Aeroplane safety device. J. Grabowiecki. No. 1,320,545; Nov. 4; v. 268; p. 36.
- Aeroplane safety device. F. P. Sargent. No. 1,314,220; Aug. 26; v. 265; p. 532.
- Aeroplane-securing member. C. F. Willard. No. 1,315,356; Sept. 9; v. 266; p. 172.
- Aeroplane-signal. E. G. Balch. No. 1,320,308; Oct. 28; v. 267; p. 612.
- Aeroplane-signal. L. S. Barr. No. 1,324,784; Dec. 16; v. 269; p. 402.
- Aeroplane. Speed scout-. G. H. Curtiss. No. 1,316,279; Sept. 16; v. 266; p. 354.
- Aeroplane-stabilizer. S. S. Benson. No. 1,293,312; Feb. 4; v. 259; p. 79.
- Aeroplane-stabilizer. S. O. Stewart. No. 1,314,027; Aug. 26; v. 265; p. 495.
- Aeroplane-stabilizer. T. J. Taplin, Jr. No. 1,315,647; Sept. 9; v. 266; p. 223.
- Aeroplane-stabilizer actuator. A. B. Thaw. No. 1,291,254; Jan. 14; v. 258; p. 320.
- Aeroplane stabilizing mechanism. F. Dove. No. 1,321,094; Nov. 11; v. 268; p. 202.
- Aeroplane stabilizing mechanism. A. K. Longren. No. 1,321,114; Nov. 11; v. 268; p. 206.
- Aeroplane steering mechanism. J. W. Miller. No. 1,290,280; Jan. 7; v. 258; p. 65.
- Aeroplane structural element. W. A. Gibbons. No. 1,290,832; Jan. 7; v. 258; p. 197.
- Aeroplane structure. A. S. Janin. No. 1,312,910; Aug. 12; v. 265; p. 232.
- Aeroplane structure, Self-stabilizing. M. R. Wolfard. No. 1,301,083; Apr. 15; v. 261; p. 602.
- Aeroplane structures, Arrangement for connecting wooden rods with metal bars in. M. N. Salvati. No. 1,325,805; Dec. 23; v. 269; p. 609.
- Aeroplane structures, Connecting-piece for attaching wires and uprights to bars in. M. N. Salvati. No. 1,325,804; Dec. 23; v. 269; p. 608.
- Aeroplane-strut. C. A. L. Roberts. No. 1,325,878; Dec. 16; v. 269; p. 512.
- Aeroplane tail-skid. H. Kleckler. No. 1,290,236; Jan. 7; v. 258; p. 54.



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- Aeroplane tail-skid. H. Kleckler. No. 1,294,477; Feb. 18; v. 259; p. 417.
- Aeroplane-wheel. J. A. Roussotte, *dit* Roussolte. No. 1,316,333; Sept. 16; v. 266; p. 365.
- Aeroplane-wheel bearing. T. Sloper. No. 1,313,646; Aug. 19; v. 265; p. 389.
- Aeroplane-wing. J. C. Davidson. No. 1,293,359; Feb. 4; v. 259; p. 90.
- Aeroplane-wing hinge. H. Kleckler. No. 1,306,764; June 17; v. 263; p. 351.
- Aeroplane-wing structure. W. G. Tarrant. No. 1,313,563; Aug. 19; v. 265; p. 373.
- Aeroplane-wing truss. G. H. Curtiss. No. 1,306,750; June 17; v. 263; p. 349.
- Aeroplane-wings, Construction of. W. Rosenheim and S. L. Archbutt. No. 1,322,348; Nov. 18; v. 268; p. 489.
- Aeroplane-wings, Flexible-rib frame for. G. and U. Antoni. No. 1,323,385; Dec. 2; v. 269; p. 31.
- Aeroplane-wings, &c., Transparent flexible material or sheet applicable for. T. J. Greeves. No. 1,323,979; Dec. 2; v. 269; p. 142.
- Aeroplanes, Air-speed indicator for. A. T. Baldwin and S. L. Christenson. No. 1,290,875; Jan. 14; v. 258; p. 232.
- Aeroplanes, Alighting and launching stage for. I. G. Burton. No. 1,291,668; Jan. 14; v. 258; p. 418.
- Aeroplanes and other aircraft, Propeller for use on. J. F. Surat. No. 1,310,330; July 15; v. 264; p. 493.
- Aeroplanes and other structures, Means to receive strut ends in. S. V. De Bolotoff. No. 1,297,331; Mar. 18; v. 260; p. 405.
- Aeroplanes and similar aircraft, Mounting for guns carried by. G. H. Challenger. No. 1,298,885; Apr. 1; v. 261; p. 62.
- Aeroplanes and similar aircraft, Mounting for guns carried by. T. S. Duncan. No. 1,298,916; Apr. 1; v. 261; p. 69.
- Aeroplanes and similar aircraft provided with guns, Bullet-deflector for the propellers of. G. H. Challenger. No. 1,298,886; Apr. 1; v. 261; p. 62.
- Aeroplanes, Automatic stabilizer for. A. L. Strout. No. 1,314,913; Sept. 2; v. 266; p. 81.
- Aeroplanes, Combination landing-gear for. G. H. Curtiss. No. 1,306,751; June 17; v. 263; p. 349.
- Aeroplanes, Controlling device for. C. R. Fairey. No. 1,313,680; Aug. 19; v. 265; p. 395.
- Aeroplanes, Controlling-gear for. E. Letord. No. 1,316,905; Sept. 23; v. 266; p. 520.
- Aeroplanes, Instrument for recording the paths of. G. J. N. Carpentier. No. 1,296,477; Mar. 4; v. 260; p. 147.
- Aeroplanes, Landing device for. M. Sikirica. No. 1,305,312; June 3; v. 263; p. 16.
- Aeroplanes, Life-preserving apparatus for. B. B. Leustig. No. 1,317,511; Sept. 30; v. 266; p. 671.
- Aeroplanes, Means for supporting radiators on. E. Letord. No. 1,313,195; Aug. 12; v. 265; p. 238.
- Aeroplanes, Mechanical pilot for. L. B. Sperry. No. 1,324,134; Dec. 9; v. 269; p. 216.
- Aeroplanes or similar aircraft, Landing skid for. W. G. Tarrant and W. H. Barling. No. 1,309,227; July 8; v. 264; p. 253.
- Aeroplanes, Poisonous-vapor generator for. G. H. Glover. No. 1,300,160; Apr. 8; v. 261; p. 376.
- Aeroplanes, Safety parachute attachment for. J. H. Hall. No. 1,303,474; May 13; v. 262; p. 215.
- Aeroplanes, Sighting device for. R. B. Head. No. 1,311,277; July 29; v. 264; p. 732.
- Aeroplanes, Stabilizing device for use on. C. J. Berthel. No. 1,309,452; July 8; v. 264; p. 295.
- Aeroplanes, Starting, stopping, and stabilizing appliance for. E. M. Blacksher. No. 1,311,377; July 29; v. 264; p. 751.
- Aeroplanes, torpedoes, and the like, Gyroscopic pendulum for. H. L. Tanner. No. 1,312,086; Aug. 5; v. 265; p. 44.
- Aeroplanes, Varnish for applying to fabrics of. D. M. Sutherland. No. 1,320,290; Oct. 28; v. 267; p. 609.
- Agitating-machine. S. C. Hills. No. 1,302,923; May 6; v. 262; p. 85.
- Agitator. C. H. Beach. No. 1,291,728; Jan. 21; v. 258; p. 462.
- Agitator. J. H. Cross. No. 1,294,775; Feb. 18; v. 259; p. 487.
- Agitator. D. E. Fishback. No. 1,318,654; Oct. 14; v. 267; p. 251.
- Agitator implement. A. B. Antisell. No. 1,305,432; June 3; v. 263; p. 38.
- Agricultural implement. W. R. Boone. No. 1,316,676; Sept. 23; v. 266; p. 478.
- Agricultural implement. D. S. Cook. No. 1,297,546; Mar. 18; v. 260; p. 449.
- Agricultural implement. H. S. Dickinson. No. 1,316,695; Sept. 23; v. 266; p. 482.
- Agricultural implement. E. J. Dougherty. No. 1,301,043; Apr. 15; v. 261; p. 591.
- Agricultural implement. E. J. Dougherty. No. 1,292,391; Jan. 21; v. 258; p. 625.
- Agricultural implement. O. C. Flower. No. 1,303,051; May 6; v. 262; p. 109.
- Agricultural implement. W. S. Graham. No. 1,290,174; Jan. 7; v. 258; p. 39.
- Agricultural implement. F. Kish. No. 1,295,525; Feb. 25; v. 259; p. 682.
- Agricultural implement. E. W. A. and P. W. Schuene-mann. No. 1,325,703; Dec. 23; v. 269; p. 590.
- Agricultural implement. M. J. Stelzer. No. 1,324,938; Dec. 16; v. 269; p. 430.
- Agricultural-implement lever. L. Willis and O. F. Woodworth. No. 1,290,454; Jan. 7; v. 258; p. 107.
- Agricultural implement, Power-driven. E. P. du Pont. No. 1,291,801; Jan. 21; v. 258; p. 480.
- Agricultural-implement wheel. C. K. Woodin, J. F. Kolczynski, and G. E. Karl. No. 1,325,770; Dec. 23; v. 269; p. 602.
- Agricultural implements, Harness for. W. P. Simpson. No. 1,313,921; Aug. 26; v. 265; p. 474.
- Agricultural machine. C. C. Craven. No. 1,302,636; May 6; v. 262; p. 29.
- Agricultural machine. F. P. Ginsbach. No. 1,296,648; Mar. 11; v. 260; p. 222.
- Agricultural machine. O. J. Johnson. No. 1,300,411; Apr. 15; v. 261; p. 456.
- Agricultural machine. J. Northcutt and M. Crawford. No. 1,326,773; Dec. 30; v. 269; p. 827.
- Agricultural machine. S. H. Tinsman. No. 1,317,739; Oct. 7; v. 267; p. 15.
- Agricultural machine. L. Wagner. No. 1,314,838; Sept. 2; v. 266; p. 68.
- Agricultural machine. R. H. White. No. 1,316,990; Sept. 23; v. 266; p. 536.
- Agricultural machine, Self-propelled. H. C. Waite. No. 1,295,242; Feb. 25; v. 259; p. 616.
- Agricultural tool. M. Wilbert. No. 1,291,327; Jan. 14; v. 258; p. 337.
- Agricultural-tool handle. E. D. Lowell. No. 1,290,261; Jan. 7; v. 258; p. 60.
- Agricultural tool, Motor-driven. J. A. Decker. No. 1,316,359; Sept. 16; v. 266; p. 369.
- Aiming apparatus, Illuminated. H. Paban. No. 1,304,702; May 27; v. 262; p. 521.
- Aiming devices, telemeters, and other applications, Support for. J. L. Routin. No. 1,312,000; Aug. 5; v. 265; p. 27.
- Aiming-rest. D. B. Shand. No. 1,324,934; Dec. 16; v. 269; p. 429.
- Air and gas mixing device. R. W. Wiederwax. No. 1,295,247; Feb. 25; v. 259; p. 617.
- Air and gas washers and the like, Nozzle-flushing mechanism for. W. H. Carrier. No. 1,312,721; Aug. 12; v. 265; p. 194.
- Air and gases, Separating aqueous and other vapors from. A. J. Paris, Jr. No. 1,320,167; Oct. 28; v. 267; p. 586.
- Air and hand power jack, Combination. L. R. Shadwick. No. 1,315,871; Sept. 9; v. 266; p. 264.
- Air and other fluid direct motor-driven compressor. M. Balleira. No. 1,295,256; Feb. 25; v. 259; p. 619.
- Air and pulverized-fuel control, Combined. W. O. Renkin. No. 1,308,368; July 1; v. 264; p. 66.
- Air, Apparatus for exhausting and compressing. D. Morgan. No. 1,308,603; July 1; v. 264; p. 109.
- Air, Apparatus for moistening. W. Millard. No. 1,322,597; Nov. 25; v. 268; p. 588.
- Air-blast plastering-machine. G. E. White. No. 1,305,574; June 3; v. 263; p. 65.
- Air-brake. F. S. Cravens. No. 1,306,526; June 10; v. 263; p. 275.
- Air-brake. E. F. Piers. No. 1,323,093; Nov. 25; v. 268; p. 681.
- Air-brake apparatus. S. G. Neal. No. 1,314,973; Sept. 2; v. 266; p. 92.
- Air-brake apparatus. S. G. Neal. No. 1,314,974; Sept. 2; v. 266; p. 92.
- Air-brake apparatus. S. G. Neal. No. 1,326,211; Dec. 30; v. 269; p. 721.
- Air-brake apparatus. Z. Riddle and N. F. Wilkins. No. 1,312,357; Aug. 5; v. 265; p. 95.
- Air-brake-controlling mechanism. T. W. Scott and H. V. Rudolph. No. 1,318,925; Oct. 14; v. 267; p. 302.
- Air-brake equipment, Automatic decelerating. G. Macloskie. No. 1,301,723; Apr. 22; v. 261; p. 761.
- Air-brake-hose coupling, Automatic. S. M. Dick. No. 1,295,282; Feb. 25; v. 259; p. 625.
- Air-brake mechanism. A. L. Goodknight. No. 1,322,783; Nov. 25; v. 268; p. 622.
- Air-brake signal. W. J. Greb. No. 1,325,288; Dec. 16; v. 269; p. 496.
- Air-break switch. C. G. Koppitz. No. 1,320,870; Nov. 4; v. 268; p. 96.
- Air-break switch, Overload. C. J. Koppitz. No. 1,316,901; Sept. 23; v. 266; p. 519.
- Air-brake system. G. Macloskie. No. 1,297,884; Mar. 18; v. 260; p. 522.
- Air-brake system. S. G. Neal. No. 1,314,975; Sept. 2; v. 266; p. 92.
- Air-brake system. E. G. Taylor. No. 1,295,235; Feb. 25; v. 259; p. 615.
- Air-brake systems, Track implement for. P. J. Clifford. No. 1,302,135; Apr. 29; v. 261; p. 870.
- Air brakes, Regulating device for the air-discharge in compressed. F. J. Chapal and A. L. E. Saillet. No. 1,309,612; July 15; v. 264; p. 362.
- Air-charging device. F. C. Dormont. No. 1,309,880; July 15; v. 264; p. 411.



- Air-circulating apparatus. A. Babendreer. No. 1,325,775; Dec. 23; v. 269; p. 603.
- Air-circulating device. N. J. Cavagnaro. No. 1,305,769; June 3; v. 263; p. 102.
- Air-cleaner. A. C. Bennett. No. 1,323,816; Dec. 2; v. 269; p. 111.
- Air-cleaning attachment for air-compressors. T. E. Taylor. No. 1,314,443; Aug. 26; v. 265; p. 575.
- Air-cleaning machine. T. B. Funk. No. 1,319,059; Oct. 21; v. 267; p. 353.
- Air-compressor. G. P. Bump. No. 1,294,869; Feb. 18; v. 259; p. 508.
- Air-compressor. H. M. Cake. No. 1,316,139; Sept. 16; v. 266; p. 328.
- Air-compressor. G. K. Davol. No. 1,310,944; July 22; v. 264; p. 637.
- Air-compressor. J. C. Fredricksen. No. 1,310,471; July 22; v. 264; p. 550.
- Air-compressor. O. E. Houser. No. 1,321,920; Nov. 18; v. 268; p. 409.
- Air-compressor. J. B. Kendall. No. 1,299,478; Apr. 8; v. 261; p. 224.
- Air-compressor. J. W. Lawhead. No. 1,295,529; Feb. 25; v. 295; p. 683.
- Air-compressor. G. Phillips. No. 1,314,360; Aug. 26; v. 265; p. 559.
- Air-compressor. D. O. Royster. No. 1,293,204; Feb. 4; v. 259; p. 52.
- Air-compressor. H. F. Stoke. No. 1,321,340; Nov. 11; v. 268; p. 249.
- Air-compressor. C. C. Yznaga. No. 1,304,439; May 20; v. 262; p. 433.
- Air-compressor and the like regulating device. C. Wainwright and F. J. Carney. No. 1,290,430; Jan. 7; v. 258; p. 100.
- Air-compressor, Rotary. A. Loken. No. 1,321,764; Nov. 11; v. 268; p. 329.
- Air-compressor, Rotary. J. Noguera and J. Doval. No. 1,320,792; Nov. 4; v. 268; p. 81.
- Air-compressors, Lubricator for. J. P. Kelly. No. 1,312,330; Aug. 5; v. 265; p. 88.
- Air-conditioning apparatus. A. F. Berry. No. 1,295,416; Feb. 25; v. 259; p. 656.
- Air-cooled engine. C. R. Baker. No. 1,317,750; Oct. 7; v. 267; p. 17.
- Air-cooled engine. R. B. Kuhn. No. 1,307,680; June 24; v. 263; p. 551.
- Air-cooled explosive-engine. B. Demont. No. 1,326,035; Dec. 23; v. 269; p. 651.
- Air-cooled systems for machinery, Apparatus for separating oil from air in. W. P. Kelly and D. C. Slattey. No. 1,303,207; May 6; v. 262; p. 139.
- Air, Cooling and drying. W. J. Baldwin. No. 1,292,562; Jan. 28; v. 258; p. 688.
- Air-cooling machine. S. and D. S. Camberos. No. 1,307,656; June 24; v. 263; p. 547.
- Air-coupling. C. R. Schrader. No. 1,326,293; Dec. 30; v. 269; p. 736.
- Air-currents, Motive-power means for utilizing energy of. W. J. Dickinson and A. H. Stark. No. 1,312,021; Aug. 5; v. 265; p. 32.
- Air, Device for chilling and drying. B. J. Du Bose. No. 1,300,705; Apr. 15; v. 261; p. 519.
- Air, Device for producing hot. J. Schlatter. No. 1,301,324; Apr. 22; v. 261; p. 685.
- Air diffuser and regulator. F. A. A. Barrs. No. 1,299,659; Apr. 8; v. 261; p. 266.
- Air-distributor. S. Heath. No. 1,310,991; July 22; v. 264; p. 646.
- Air-distribution system. E. A. Briner. No. 1,298,655; Apr. 1; v. 261; p. 8.
- Air-drier. B. Macfadden. No. 1,322,804; Nov. 25; v. 268; p. 626.
- Air-driven implement. A. C. Gressle and R. E. Asbury. No. 1,322,107; Nov. 18; v. 268; p. 443.
- Air-gage. B. W. Hurd. No. 1,291,901; Jan. 21; v. 258; p. 506.
- Air-gage, Automatic. G. L. Banks. No. 1,294,369; Feb. 18; v. 259; p. 391.
- Air heater and distributor. C. R. Mabee. No. 1,323,889; Dec. 2; v. 269; p. 125.
- Air-heater, Domestic. P. S. Lanchick. No. 1,300,625; Apr. 15; v. 261; p. 501.
- Air-heating apparatus. H. Baetz. No. 1,309,977; July 15; v. 264; p. 430.
- Air-heating apparatus. F. G. Saylor. No. 1,326,534; Dec. 30; v. 269; p. 782.
- Air-heating furnace. L. Lee. No. 1,319,654; Oct. 21; v. 267; p. 467.
- Air-hose parting-chain. M. F. McDonnell. No. 1,317,982; Oct. 7; v. 267; p. 61.
- Air-induction apparatus. P. E. and G. G. Heatherbell. No. 1,323,981; Dec. 2; v. 269; p. 142.
- Air-inlet device. A. A. Crusius. No. 1,313,584; Aug. 19; v. 265; p. 378.
- Air-inlet device. W. B. Robeson. No. 1,304,374; May 20; v. 262; p. 420.
- Air-inlet device, Auxiliary. W. R. Wilson. No. 1,306,987; June 17; v. 263; p. 392.
- Air-inlet device, Auxiliary. L. M. York. No. 1,303,529; May 13; v. 262; p. 225.
- Air-intake, Auxiliary. C. E. Ewers. No. 1,322,415; Nov. 18; v. 268; p. 502.
- Air-lift apparatus. E. M. Rogers. No. 1,319,797; Oct. 28; v. 267; p. 517.
- Air lifting-jack. A. Blomquist. No. 1,299,668; Apr. 8; v. 261; p. 268.
- Air-lines, Coupling for hose of. J. Gootee. No. 1,313,225; Aug. 12; v. 265; p. 294.
- Air, Method of and apparatus for producing blasts of heated. W. W. Kemp and W. H. Van Horn. No. 1,311,235; July 29; v. 264; p. 724.
- Air-mixer. C. A. Cline, Jr. No. 1,290,715; Jan. 7; v. 258; p. 170.
- Air-moistener. E. J. Bushey. No. 1,312,948; Aug. 12; v. 265; p. 239.
- Air-moistener. R. W. Hardie. No. 1,295,983; Mar. 4; v. 260; p. 37.
- Air-moistener and dust-collector. J. S. Nelson. No. 1,305,926; June 3; v. 263; p. 132.
- Air-motor. J. A. Albusu. No. 1,302,889; May 6; v. 262; p. 78.
- Air-motor. V. G. Hyatt, Jr. No. 1,294,910; Feb. 18; v. 259; p. 518.
- Air-motor. S. Tridico. No. 1,313,842; Aug. 19; v. 265; p. 425.
- Air one-man equipment, Straight-. J. M. Bosenbury. No. 1,297,437; Mar. 18; v. 260; p. 426.
- Air or gases and collecting same, Apparatus for separating dust or like matter from. G. Dod. No. 1,295,711; Feb. 25; v. 259; p. 725.
- Air or gases, Desiccation of. G. Claude. No. 1,323,014; Nov. 25; v. 268; p. 666.
- Air or other gases, Apparatus for treating. W. H. Yardley. No. 1,323,666; Dec. 2; v. 269; p. 83.
- Air power plant, Compressed-. H. P. J. Earnshaw. No. 1,292,731; Jan. 28; v. 258; p. 728.
- Air-pressure signal, Low-. D. D. Getman. No. 1,325,012; Dec. 16; v. 269; p. 443.
- Air-purifier. G. C. Fatscher. No. 1,316,883; Sept. 23; v. 266; p. 516.
- Air-refrigerating machine. J. Frankenberg. No. 1,295,724; Feb. 25; v. 259; p. 728.
- Air register and ventilators through which air passes, Constructive design of face-plates used for the purpose of covering openings in. C. B. Branson. No. 1,313,460; Aug. 19; v. 265; p. 354.
- Air-regulating attachment. O. Kiessig. No. 1,301,455; Apr. 22; v. 261; p. 709.
- Air-regulator. J. Ottli. No. 1,324,515; Dec. 9; v. 269; p. 290.
- Air-retainer, Split-rim. E. A. Bansbach. No. 1,322,866; Nov. 25; v. 268; p. 638.
- Air-separator, Vacuum. E. M. Davids and L. Lindsay. No. 1,309,879; July 15; v. 264; p. 411.
- Air starting apparatus, Compressed-. G. P. Bump. No. 1,294,870; Feb. 18; v. 259; p. 508.
- Air-supply device, Auxiliary. C. W. Jenkins. No. 1,294,340; Feb. 11; v. 259; p. 349.
- Air-supply device, Throttle-controlled auxiliary. E. G. Hodges. No. 1,293,437; Feb. 4; v. 259; p. 108.
- Air-supply moistener for internal-combustion engines. B. Macfadden. No. 1,309,254; July 8; v. 264; p. 258.
- Air to interiors, Supplying. A. R. Klein. No. 1,296,968; Mar. 11; v. 260; p. 297.
- Air transport system Semi-automatic compressed-. W. O. Renkin. No. 1,301,167; Apr. 22; v. 261; p. 653.
- Air, vapor, or gas superheater. F. O. Bynoe. No. 1,298,883; Apr. 1; v. 261; p. 61.
- Air ventilation system. S. W. Mead. No. 1,324,059; Dec. 9; v. 269; p. 201.
- Air washer and humidifier. R. A. Ilg. No. 1,309,737; July 15; v. 264; p. 385.
- Aircraft. P. Adams. No. 1,308,155; July 1; v. 264; p. 27.
- Aircraft. M. T. Brush. No. 1,293,688; Feb. 11; v. 259; p. 196.
- Aircraft. G. H. Challenger and H. A. Savage. No. 1,312,099; Aug. 5; v. 265; p. 47.
- Aircraft. C. G. Nelson. No. 1,313,791; Oct. 14; v. 267; p. 277.
- Aircraft. W. B. Stout. No. 1,325,054; Dec. 16; v. 269; p. 451.
- Aircraft. H. Wilson-Fox. No. 1,298,133; Mar. 25; v. 260; p. 601.
- Aircraft-anchor. E. H. Jungclas. No. 1,316,620; Sept. 23; v. 266; p. 468.
- Aircraft and other structures, Clamp for bracing wires or cables of. A. L. and R. Anderson. No. 1,301,634; Apr. 22; v. 261; p. 742.
- Aircraft, Apparatus for determining and correcting the course of. A. H. Pollen and H. F. Lanstad. No. 1,314,429; Aug. 26; v. 265; p. 573.
- Aircraft, Balanced alleron and pivoted control for. F. H. Page. No. 1,320,341; Oct. 28; v. 267; p. 618.
- Aircraft, Bomb-dropping sight for. A. H. Pollen and H. F. Lanstad. No. 1,314,428; Aug. 26; v. 265; p. 572.
- Aircraft construction, Strut, spar, or the like for use in. F. Sigrist. No. 1,303,507; May 13; v. 262; p. 221.
- Aircraft, Control device for. J. D. North. No. 1,318,171; Oct. 7; v. 267; p. 97.
- Aircraft, Detachable power unit for. F. H. Page. No. 1,317,591; Sept. 30; v. 266; p. 687.



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- Aircraft, Director apparatus for use on. H. E. Wimperis. No. 1,313,934; Aug. 26; v. 265; p. 477.
- Aircraft, Doping. P. R. Bradley. No. 1,309,454; July 8; v. 264; p. 295.
- Aircraft-driving mechanism. H. R. Ricardo. No. 1,306,125; June 10; v. 263; p. 199.
- Aircraft-engine. W. T. Reid. No. 1,318,410; Oct. 14; v. 267; p. 204.
- Aircraft, Engine fairing or casing for. J. D. North. No. 1,321,070; Nov. 4; v. 268; p. 134.
- Aircraft, Fireproofing. P. R. Bradley. No. 1,309,453; July 8; v. 264; p. 295.
- Aircraft, Fireproofing. P. R. Bradley. No. 1,321,708; Nov. 11; v. 268; p. 319.
- Aircraft-fuselage. W. T. Reid. No. 1,300,777; Apr. 15; v. 261; p. 534.
- Aircraft gas-bag fabric and manufacturing same. J. McKechnie. No. 1,301,955; Apr. 29; v. 261; p. 837.
- Aircraft-inclinometer. G. W. Berry. No. 1,312,303; Aug. 5; v. 265; p. 83.
- Aircraft, Inclinometer for use on. W. D. McCormack. No. 1,308,795; July 8; v. 264; p. 172.
- Aircraft, Lamination for distributing tension strains on spars of. F. H. Page. No. 1,320,342; Oct. 28; v. 267; p. 618.
- Aircraft, Landing-gear for. H. Kleckler. No. 1,306,765; June 17; v. 263; p. 352.
- Aircraft life-saving device. J. E. Stanger. No. 1,290,798; Jan. 7; v. 258; p. 189.
- Aircraft, Means for supporting and releasing tanks or reservoirs employed in connection with. L. Breguet. No. 1,322,160; Nov. 18; v. 268; p. 453.
- Aircraft, Mooring of lighter-than-air. J. McKechnie and B. N. Wallis. No. 1,309,533; July 8; v. 264; p. 310.
- Aircraft, Power unit for. F. H. Page. No. 1,319,414; Oct. 21; v. 267; p. 422.
- Aircraft-projectile. G. E. Lamberson. No. 1,309,530; July 8; v. 264; p. 309.
- Aircraft, Propeller-thrust register for. N. W. Dalton. No. 1,316,281; Sept. 16; v. 266; p. 355.
- Aircraft propelling and manipulating. P. J. Schelb. No. 1,325,702; Dec. 23; v. 269; p. 589.
- Aircraft running and alighting device. J. V. Martin. No. 1,306,768; June 17; v. 263; p. 352.
- Aircraft-spars, Attachment device for connection of tension-wires to. F. H. Page. No. 1,314,536; Sept. 2; v. 266; p. 11.
- Aircraft-stabilizer. D. McKinley. No. 1,302,688; May 6; v. 262; p. 39.
- Aircraft, Stabilizing and neutralizing device for. J. V. Martin. No. 1,302,947; May 6; v. 262; p. 89.
- Aircraft, Stream-line hollow spar or strut for. F. H. Page. No. 1,317,032; Sept. 23; v. 266; p. 544.
- Aircraft to render same invisible. Attachment for. W. D. McCormack. No. 1,297,882; Mar. 18; v. 260; p. 521.
- Aircraft, Union for attachment of struts or frames in. F. H. Page. No. 1,311,706; July 29; v. 264; p. 712.
- Aircraft-wings and the like, Light framed structure as. A. V. Roe. No. 1,301,747; Apr. 22; v. 261; p. 766.
- Aircrafts, Climb-indicator for. B. R. Shaw. No. 1,308,557; July 1; v. 264; p. 100.
- Aircrafts' tanks, Means for preventing the disastrous consequences of accidental ignition of gasoline of. N. Pogolski. No. 1,300,190; Apr. 8; v. 261; p. 383.
- Airplane. A. Aster. No. 1,290,481; Jan. 7; v. 258; p. 113.
- Airplane. F. J. Bauman. No. 1,307,720; June 24; v. 263; p. 558.
- Airplane. G. T. Buchanan. No. 1,299,117; Apr. 1; v. 261; p. 115.
- Airplane. L. B. Dorr. No. 1,312,686; Aug. 12; v. 265; p. 188.
- Airplane. A. E. Johnson. No. 1,311,076; July 22; v. 264; p. 662.
- Airplane. C. J. Lake. No. 1,307,133; June 17; v. 263; p. 419.
- Airplane. C. J. Lake. No. 1,307,134; June 17; v. 263; p. 419.
- Airplane. T. P. Leaman. No. 1,304,525; May 20; v. 262; p. 450.
- Airplane. J. J. Murray. No. 1,290,843; Jan. 7; v. 258; p. 199.
- Airplane. C. E. Stacy. No. 1,311,097; July 22; v. 264; p. 666.
- Airplane. O. H. Wisenand. No. 1,290,857; Jan. 7; v. 258; p. 201.
- Airplane fabrics, Lacquer for. W. F. Doerflinger. No. 1,315,216; Sept. 9; v. 266; p. 146.
- Airplane-fitting. J. W. Miller. No. 1,290,281; Jan. 7; v. 258; p. 65.
- Airplane floating hangar. M. C. Schweinert. No. 1,292,097; Jan. 21; v. 258; p. 555.
- Airplane, Folding-wing. G. H. Curtiss. No. 1,316,280; Sept. 16; v. 266; p. 354.
- Airplane-inclinometer. G. W. Farthing. No. 1,301,925; Apr. 29; v. 261; p. 831.
- Airplane landing and launching equipment. F. Smith. No. 1,306,860; June 17; v. 263; p. 369.
- Airplane landing-gear. G. H. Curtiss. No. 1,296,770; Mar. 11; v. 260; p. 251.
- Airplane landing-platform. T. J. Cahill. No. 1,326,020; Dec. 23; v. 269; p. 648.
- Airplane-launching means. E. Atkinson. No. 1,317,414; Sept. 30; v. 266; p. 652.
- Airplane-propeller. L. S. Barr. No. 1,300,552; Apr. 15; v. 261; p. 487.
- Airplane-propeller. O. W. Boyea. No. 1,317,125; Sept. 23; v. 266; p. 562.
- Airplane-propelling mechanism. F. J. Bauman. No. 1,307,721; June 24; v. 263; p. 559.
- Airplane-stabilizer. T. Yamada. No. 1,312,225; Aug. 5; v. 265; p. 70.
- Airplane-wing construction. N. W. Dalton. No. 1,310,942; July 22; v. 264; p. 637.
- Airplane-wings, Knockdown construction for. J. W. Rapp and J. Vanorio. No. 1,325,499; Dec. 16; v. 269; p. 534.
- Airplane wire-fastening. W. G. Mesner. No. 1,310,764; July 22; v. 264; p. 604.
- Airplanes and the like, Fitting for. G. N. Albree. No. 1,315,694; Sept. 9; v. 266; p. 231.
- Airplanes and the like, Fitting for. G. N. Albree. No. 1,315,695; Sept. 9; v. 266; p. 231.
- Airplanes, Stabilizer for. A. O. Hagen. No. 1,314,395; Aug. 26; v. 265; p. 566.
- Airship. J. G. Ambrose. No. 1,291,354; Jan. 14; v. 258; p. 343.
- Airship. J. W. Boughton. No. 1,304,654; May 27; v. 262; p. 512.
- Airship. A. J. Crowley. No. 1,321,722; Nov. 11; v. 268; p. 321.
- Airship. J. B. De Stefano. No. 1,303,174; May 6; v. 262; p. 133.
- Airship. S. A. Flower. No. 1,298,487; Mar. 25; v. 260; p. 676.
- Airship. H. Harden. No. 1,290,549; Jan. 7; v. 258; p. 129.
- Airship. O. J. Laisy. No. 1,311,237; July 29; v. 264; p. 724.
- Airship. J. W. Lippincott. No. 1,319,677; Oct. 21; v. 267; p. 471.
- Airship. L. Matlock. No. 1,298,754; Apr. 1; v. 261; p. 32.
- Airship. J. Neff, Sr. No. 1,298,082; Mar. 25; v. 260; p. 589.
- Airship. J. Paulauski. No. 1,307,414; June 24; v. 263; p. 503.
- Airship. J. Paulauski. No. 1,309,078; July 8; v. 264; p. 226.
- Airship. J. W. Rairden. No. 1,290,348; Jan. 7; v. 258; p. 81.
- Airship. W. Reiferscheid. No. 1,291,686; Jan. 14; v. 258; p. 421.
- Airship. G. C. St. Louis and C. Pearson. No. 1,290,847; Jan. 7; v. 258; p. 199.
- Airship. T. E. Wade. No. 1,303,999; May 20; v. 262; p. 349.
- Airship attachment. D. Smith. No. 1,303,976; May 20; v. 262; p. 345.
- Airship, Dirigible. C. D. Fahsel. No. 1,291,675; Jan. 14; v. 258; p. 420.
- Airship, Dirigible. S. I. Kehler. No. 1,320,867; Nov. 4; v. 268; p. 96.
- Airship, Dirigible. A. J. Liversedge. No. 1,300,746; Apr. 15; v. 261; p. 527.
- Airship, Heavier-than-air. G. C. Brown. No. 1,315,084; Sept. 2; v. 266; p. 112.
- Airship of rigid type. E. H. Mitchell. No. 1,314,349; Aug. 26; v. 265; p. 557.
- Airship of rigid type. E. H. Mitchell. No. 1,314,350; Aug. 26; v. 265; p. 557.
- Airship-station. C. Simanik. No. 1,320,579; Nov. 4; v. 268; p. 42.
- Airships, Aerostat structure of rigid. J. McKechnie and H. B. Pratt. No. 1,308,291; July 1; v. 264; p. 52.
- Airships, Ascending, descending, and driving means for dirigible. J. O. Huxford. No. 1,302,048; Apr. 29; v. 261; p. 854.
- Airships, balloons, &c., and manufacturing the same, Fabric for. J. McKechnie. No. 1,316,456; Sept. 16; v. 266; p. 388.
- Alarm: See—
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|-------------------------|--------------------------------|
| Automatic alarm.        | Heat and cold regulator alarm. |
| Automobile-alarm.       |                                |
| Automobile-theft alarm. | Highway-crossing alarm.        |
| Boiler-alarm.           | Low-pressure alarm.            |
| Burglar-alarm.          | Picture-strip-reel alarm.      |
| Door-alarm.             | Rain-alarm.                    |
| Engine-actuated alarm.  | Thermostatic alarm.            |
| Fire-alarm.             | Tire-alarm.                    |
| Heat-alarm.             | Water-flow alarm.              |
- Alarm. C. F. Bobo. No. 1,305,190; May 27; v. 262; p. 613.
- Alarm. B. H. M. Spargo. No. 1,311,424; July 29; v. 264; p. 760.
- Alarm and releasing attachment for windows. J. C. Liston. No. 1,306,702; June 17; v. 263; p. 340.
- Alarm device. W. E. Langenberg. No. 1,307,300; June 17; v. 263; p. 449.
- Alarm device. G. J. Lynch. No. 1,325,161; Dec. 16; v. 269; p. 472.
- Alarm-gage. C. M. Fisk. No. 1,319,146; Oct. 21; v. 267; p. 371.



- Alarm-lock. P. Tracz. No. 1,323,729; Dec. 2; v. 269; p. 95.
- Alarm-lock. W. Zadorozny. No. 1,321,872; Nov. 18; v. 268; p. 400.
- Alarm mechanism. J. M. Butcher. No. 1,301,783; Apr. 22; v. 261; p. 774.
- Alarm system, Auxiliary. C. E. Beach. No. 1,290,700; Jan. 7; v. 258; p. 166.
- Alarms, Circuit-closer for incubator-. M. T. Chapman and L. L. Lyons. No. 1,325,394; Dec. 16; v. 269; p. 515.
- Album leaf or leaves. F. M. Goodhue. No. 1,320,683; Nov. 4; v. 268; p. 60.
- Albumen including gluten, Manufacture of a colloidal solution neutral to the taste from casein and vegetable. M. Monhaupt. No. 1,326,210; Dec. 30; v. 269; p. 720.
- Alcohol and residue from beverage, Manufacture of ethyl. J. Schneible. No. 1,311,421; July 29; v. 264; p. 759.
- Alcohol from acetaldehyde, Manufacture of ethyl. T. Lichtenhahn. No. 1,311,824; July 29; v. 264; p. 834.
- Alcohol from alkyl formates, Producing methyl. J. A. Christiansen. No. 1,302,011; Apr. 29; v. 261; p. 847.
- Alcohol from baking bread, Apparatus for securing. J. Krizek. No. 1,314,082; Aug. 26; v. 265; p. 505.
- Alcohol from wood, Making ethyl. H. K. Moore. No. 1,323,540; Dec. 2; v. 269; p. 68.
- Alcohol, Obtaining. A. B. Foster. No. 1,320,043; Oct. 28; v. 267; p. 563.
- Alcohol, Obtaining cetyl. S. Axelrad and I. Hochstadter. No. 1,290,870; Jan. 14; v. 258; p. 231.
- Alcohol, Primarv. J. Altwegg. No. 1,315,619; Sept. 9; v. 266; p. 218.
- Alcohol reduced to beer, Preparation of. H. Heuser. No. 1,308,588; July 1; v. 264; p. 106.
- Alcoholic zein solution. C. E. Swett. No. 1,320,508; Nov. 4; v. 268; p. 28.
- Alfalfa, Artificially compelling the fecundation of. W. M. Williams. No. 1,306,209; June 10; v. 263; p. 214.
- Alimentary and other substances, Apparatus for drying. A. F. Spawm. No. 1,318,931; Oct. 14; v. 267; p. 304.
- Alimentary substance and product thereof, Producing an. E. E. Gridley. No. 1,304,679; May 27; v. 262; p. 517.
- Alignment indicator and straightener, Crank or cam shaft. W. S. Littell. No. 1,308,501; July 1; v. 264; p. 90.
- Alkali cyanid, Apparatus for the manufacture of. F. J. Metzger. No. 1,309,903; July 15; v. 264; p. 416.
- Alkali-earth-metal material. W. F. Bleecker and W. L. Morrison. No. 1,311,330; July 29; v. 264; p. 751.
- Alkali-earth metals, Apparatus for producing. W. F. Bleecker and W. L. Morrison. No. 1,311,379; July 29; v. 264; p. 751.
- Alkali-earth metals, Producing. W. F. Bleecker and W. L. Morrison. No. 1,311,378; July 29; v. 264; p. 751.
- Alkali-earth nitrates and hydrogen sulfid, Manufacture of. R. W. Davis, Jr. No. 1,321,013; Nov. 4; v. 268; p. 124.
- Alkali-metal-chlorid solutions, Purification of. C. N. Riiber. No. 1,308,509; July 1; v. 264; p. 91.
- Alkali-metal cyanid and separating same from alkali-metal hydroxid, Manufacturing. F. J. Metzger. No. 1,295,049; Feb. 18; v. 259; p. 548.
- Alkali-metal cyanids, Production of. C. B. Jacobs. No. 1,324,119; Dec. 9; v. 269; p. 213.
- Alkali-metal monochromates into bichromates, Transforming. G. N. Vis. No. 1,310,720; July 22; v. 264; p. 596.
- Alkali metal sulfonate having properties of detergent, Product and process of producing. R. E. Divine. No. 1,301,663; Apr. 22; v. 261; p. 748.
- Alkali metals from their chlorids, Producing. H. Freeman. No. 1,319,148; Oct. 21; v. 267; p. 372.
- Alkali used in pulp digestion, Recovering. D. S. McAfee. No. 1,308,184; July 1; v. 264; p. 33.
- Alkalis from silicates, Extracting. R. C. Hills. No. 1,321,632; Nov. 11; v. 268; p. 304.
- Alkaline permanganates, chlorates, and hydrogen. T. J. Brewster. No. 1,291,751; Jan. 21; v. 258; p. 467.
- Alkaloids and alkaloid salts, Extracting, purifying, or excluding. J. U. Lloyd. No. 1,300,747; Apr. 15; v. 261; p. 527.
- Alligator-wrench. B. F. McCraith. No. 1,304,584; May 27; v. 262; p. 499.
- Alligator-wrench, Adjustable. F. W. Rhines. No. 1,303,963; May 20; v. 262; p. 343.
- Alloy. F. M. Becket. No. 1,322,158; Nov. 18; v. 268; p. 453.
- Alloy. L. W. Chubb. No. 1,291,408; Jan. 14; v. 258; p. 357.
- Alloy. A. Cohn. No. 1,323,833; Dec. 2; v. 269; p. 115.
- Alloy. A. Cohn. No. 1,323,834; Dec. 2; v. 269; p. 115.
- Alloy. D. J. Hauss. No. 1,293,426; Feb. 4; v. 259; p. 105.
- Alloy. F. Milliken. No. 1,310,363; July 15; v. 264; p. 498.
- Alloy. F. Milliken. No. 1,314,417; Aug. 26; v. 265; p. 570.
- Alloy. W. J. Reardon. No. 1,305,166; May 27; v. 262; p. 607.
- Alloy. L. T. and E. A. Richardson. No. 1,317,592; Sept. 30; v. 266; p. 687.
- Alloy. H. G. C. Thofehrn. No. 1,310,309; July 15; v. 264; p. 489.
- Alloy. C. Van Amburgh. No. 1,300,058; Apr. 8; v. 261; p. 354.
- Alloy. L. F. Vogt. No. 1,304,224; May 20; v. 262; p. 390.
- Alloy, Aluminum. H. C. Kirk. No. 1,305,551; June 3; v. 263; p. 61.
- Alloy, Aluminum. A. O. Mason. No. 1,305,300; June 3; v. 263; p. 14.
- Alloy, Manufacture of molybdenum tungsten. F. G. Keyes. No. 1,308,907; July 8; v. 264; p. 193.
- Alloy, Metal. J. A. Weiger. No. 1,321,170; Nov. 11; v. 268; p. 216.
- Alloy, Rust-resisting ferrous. L. T. and E. A. Richardson. No. 1,317,593; Sept. 30; v. 266; p. 687.
- Alloy, Soldering. L. J. Gurevich and R. W. Woodward. No. 1,301,688; Apr. 22; v. 261; p. 754.
- Alloy, Steel. W. C. Honhorst. No. 1,313,894; Aug. 26; v. 265; p. 469.
- Alloy steel, Making. A. Kissock. No. 1,300,279; Apr. 15; v. 261; p. 429.
- Alloy steel, Stable-surface. P. A. E. Armstrong. No. 1,322,511; Nov. 25; v. 268; p. 572.
- Alloys, Making. H. G. C. Thofehrn. No. 1,310,310; July 15; v. 264; p. 489.
- Alloys, Making iron. J. R. Speer. No. 1,291,220; Jan. 14; v. 258; p. 312.
- Alloys, Manufacture of metal. W. L. Turner and H. A. Blackwell. No. 1,321,684; Nov. 11; v. 266; p. 314.
- Alloys, Manufacture of steel or ferro. W. L. Turner. No. 1,325,455; Dec. 16; v. 269; p. 525.
- Alloying-furnace. F. L. McGahan. No. 1,290,268; Jan. 7; v. 258; p. 62.
- Alternating-current motor. E. A. Binney. No. 1,321,590; Nov. 11; v. 268; p. 296.
- Alternating-current motor. H. W. Jeannin. No. 1,322,451; Nov. 18; v. 268; p. 509.
- Alternating movements into progressive rotary motion, Apparatus for the conversion of. A. A. Quick. No. 1,293,920; Feb. 11; v. 259; p. 250.
- Altimeter. E. N. Widen. No. 1,308,971; July 8; v. 264; p. 205.
- Alumina from clay, Extraction of. H. G. Wildman. No. 1,326,384; Dec. 30; v. 269; p. 753.
- Alumina, Preparing. F. Laist. F. F. Frick and R. S. Oliver. No. 1,300,417; Apr. 15; v. 261; p. 458.
- Alumina production. A. G. Betts. No. 1,300,110; Apr. 8; v. 261; p. 366.
- Alumina, Production of. R. H. McKee. No. 1,290,269; Jan. 7; v. 258; p. 62.
- Alumina, Recovering. C. G. Miner. No. 1,324,318; Dec. 9; v. 269; p. 251.
- Aluminum alloys, Manufacturing. A. Tedesco. No. 1,318,702; Oct. 14; v. 267; p. 260.
- Aluminum compounds, Producing. O. Ravner and V. M. Goldschmidt. No. 1,302,852; May 6; v. 262; p. 71.
- Aluminum sheets, Cutting and piling up thin. E. Drouilly. No. 1,296,934; Mar. 11; v. 260; p. 289.
- Aluminous material, Purifying. C. H. MacDowell and P. R. Hershman. No. 1,291,979; Jan. 21; v. 258; p. 526.
- Aluminous materials, Purifying. O. Hutchins. No. 1,310,342; July 15; v. 264; p. 495.
- Aluminum-castings, Repairing. S. D. Irwin. No. 1,309,033; July 8; v. 264; p. 218.
- Aluminum, Soldering. A. H. Alexandre. No. 1,301,633; Apr. 22; v. 261; p. 742.
- Alunite, Treating. R. Cross. No. 1,301,394; Apr. 22; v. 261; p. 699.
- Amalgam for dentists' use, Preparing. W. M. Muchow. No. 1,317,886; Oct. 27; v. 267; p. 43.
- Amalgamating-machine. W. B. Tucker. No. 1,300,054; Apr. 8; v. 261; p. 353.
- Amalgamator. J. A. Malone. No. 1,317,984; Oct. 7; v. 267; p. 62.
- Amalgamator, Rotary. J. Garside. No. 1,292,753; Jan. 28; v. 258; p. 733.
- Ambulance. C. C. Blackmore. No. 1,303,016; May 6; v. 262; p. 103.
- Ambulance and material-transportation vehicle. J. G. Carreira. No. 1,292,251; Jan. 21; v. 258; p. 592.
- Aminonaphthol substances, Ureids of substituted. B. Huymann, R. Kothe, and A. Ossenbeck. No. 1,308,071; July 1; v. 264; p. 12.
- Ammonia-and-air mixture, Forming. L. C. Jones. No. 1,307,739; June 24; v. 263; p. 562.
- Ammonia and ammonium compounds, Producing. G. C. Taylor and I. E. Knapp, Jr. No. 1,315,534; Sept. 9; v. 266; p. 203.
- Ammonia and apparatus therefor, Oxidizing. L. C. Jones and C. L. Parsons. No. 1,321,376; Nov. 11; v. 268; p. 256.
- Ammonia and tar recovery process. J. Becker. No. 1,307,533; June 24; v. 263; p. 525.
- Ammonia and tar recovery process. J. Van Ackeren. No. 1,307,571; June 24; v. 263; p. 532.
- Ammonia and tar recovery process. J. van Ackeren. No. 1,320,369; Nov. 4; v. 268; p. 3.
- Ammonia, Apparatus and process for the production of. J. J. Elbert. No. 1,313,884; Aug. 26; v. 265; p. 467.
- Ammonia-compressor. J. H. McCain. No. 1,308,288; July 1; v. 264; p. 52.
- Ammonia, Extracting. E. Piron. No. 1,324,979; Dec. 16; v. 269; p. 438.



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- Ammonia from alkali cyanid, Producing. C. F. Bierbauer and L. S. Finch. No. 1,295,262; Feb. 25; v. 259; p. 621.
- Ammonia from alkali ferrocyanid, Producing. L. S. Finch. No. 1,295,293; Feb. 25; v. 259; p. 628.
- Ammonia from atmospheric nitrogen, Making. E. W. Haslup. No. 1,310,479; July 22; v. 264; p. 551.
- Ammonia from producer-gas, Recovery of. A. H. Lynn and N. E. Rambush. No. 1,309,143; July 8; v. 264; p. 238.
- Ammonia, Hydrolyzing cyanid to. C. P. Hidden. No. 1,312,116; Aug. 5; v. 265; p. 50.
- Ammonia, Manufacture of anhydrous. A. Lowenstein. No. 1,322,251; Nov. 18; v. 268; p. 471.
- Ammonia, Manufacture of sulfate of. J. T. Sheard. No. 1,313,023; Aug. 12; v. 265; p. 254.
- Ammonia, Oxidation of. C. Toniolo. No. 1,318,936; Oct. 14; v. 267; p. 305.
- Ammonia, Oxidizing. A. Classen. No. 1,322,291; Nov. 18; v. 268; p. 478.
- Ammonia, Production and purification of. W. S. Landis. No. 1,296,820; Mar. 11; v. 260; p. 262.
- Ammonia, Production of. J. J. Elbert. No. 1,313,885; Aug. 26; v. 265; p. 467.
- Ammonia, Purifying. J. J. Elbert. No. 1,313,886; Aug. 26; v. 265; p. 467.
- Ammonia, Recovery of. R. O. E. Davis, and H. Bryan. No. 1,319,663; Oct. 21; v. 267; p. 469.
- Ammonia, Regulating the oxidation of. L. Rabinovitz. No. 1,304,707; May 27; v. 262; p. 522.
- Ammonia, Synthetic production of. H. C. Greenwood. No. 1,312,534; Aug. 12; v. 265; p. 158.
- Ammonia, Synthetic production of. F. J. Metzger. No. 1,313,314; Aug. 19; v. 265; p. 327.
- Ammonia, Synthetic production of. F. J. Metzger. No. 1,313,315; Aug. 19; v. 265; p. 327.
- Ammonia, Synthetic production of. F. J. Metzger. No. 1,313,316; Aug. 19; v. 265; p. 327.
- Ammonia, tar, and benzol recovery process. J. Becker. No. 1,307,534; June 24; v. 263; p. 525.
- Ammonium nitrate, Manufacture of. F. A. Freeth and H. E. Cockledge. No. 1,301,047; Apr. 15; v. 261; p. 592.
- Ammonium nitrate, Manufacture of. J. R. Partington and G. J. Jones. No. 1,306,924; June 17; v. 263; p. 381.
- Ammonium nitrate, Producing. W. S. Landis. No. 1,315,674; Sept. 9; v. 266; p. 227.
- Ammonium perchlorate, Manufacture of. E. Collett. No. 1,303,167; May 6; v. 262; p. 132.
- Ammonium sulfate, Apparatus and recovery of. J. Becker. No. 1,291,729; Jan. 21; v. 258; p. 462.
- Ammonium sulfate, Manufacture of. F. W. Sperr, Jr. No. 1,310,306; July 15; v. 264; p. 489.
- Ammonium sulfate, Method of and apparatus for producing. H. A. Carpenter. No. 1,322,757; Nov. 25; v. 268; p. 618.
- Ammonium sulfate, Method of and apparatus for producing. H. A. Carpenter. No. 1,322,758; Nov. 25; v. 268; p. 618.
- Ammonium sulfate, Production of. C. W. Bailey, H. S. Denny, and W. H. H. Norris. No. 1,325,605; Dec. 23; v. 269; p. 571.
- Ammonium-sulfate-recovery process. J. Becker. No. 1,291,730; Jan. 21; v. 258; p. 463.
- Ammunition-hoisting apparatus. A. T. Dawson and J. Horne. No. 1,302,527; May 6; v. 262; p. 9.
- Ammunition. Means for lubricating. J. T. Thompson. No. 1,305,027; May 27; v. 262; p. 581.
- Ammunition. Means for lubricating. J. T. Thompson. No. 1,305,028; May 27; v. 262; p. 581.
- Ammunition, Protecting device for. E. Martin. No. 1,314,199; Aug. 26; v. 265; p. 527.
- Ammunition-shell. J. De Case. No. 1,294,059; Feb. 11; v. 259; p. 284.
- Ampere-hour meter. C. A. Boddie. No. 1,303,242; May 13; v. 262; p. 174.
- Ampere-hour meter. C. A. Boddie. No. 1,303,243; May 13; v. 262; p. 174.
- Amplification of energies, System for successive. A. Nicolson. No. 1,303,579; May 13; v. 262; p. 233.
- Amplifying and correcting systems. R. C. Mathes. No. 1,311,283; July 29; v. 264; p. 733.
- Amplifying-gage. F. L. Walter. No. 1,290,434; Jan. 7; v. 258; p. 101.
- Amusement apparatus. E. S. Doughty. No. 1,302,642; May 6; v. 262; p. 30.
- Amusement apparatus. W. F. Mangels. No. 1,296,417; Mar. 4; v. 260; p. 135.
- Amusement apparatus. M. B. Williams. No. 1,320,664; Nov. 4; v. 268; p. 57.
- Amusement device. A. K. Bradley. No. 1,326,177; Dec. 30; v. 269; p. 714.
- Amusement device. S. P. Chapman. No. 1,319,643; Oct. 21; v. 267; p. 465.
- Amusement device. T. J. Chrul. No. 1,320,124; Oct. 28; v. 267; p. 578.
- Amusement device. J. A. Fisher. No. 1,295,145; Feb. 25; v. 259; p. 594.
- Amusement device. H. Honigman. No. 1,326,592; Dec. 30; v. 269; p. 793.
- Amusement device. J. Irsch. No. 1,312,988; Aug. 12; v. 265; p. 248.
- Amusement device. A. Kassis. No. 1,320,621; Nov. 4; v. 268; p. 49.
- Amusement device. W. E. Miller. No. 1,306,706; June 17; v. 263; p. 341.
- Amusement device. T. W. Prior and F. A. Church. No. 1,302,088; Apr. 29; v. 261; p. 861.
- Amusement device. W. Raster. No. 1,319,245; Oct. 21; v. 267; p. 389.
- Amusement device. C. P. Shore. No. 1,291,198; Jan. 14; v. 258; p. 307.
- Amusement device. J. Stanley. No. 1,290,392; Jan. 7; v. 258; p. 91.
- Amusement device. E. F. Stoeltzing. No. 1,315,431; Sept. 9; v. 266; p. 185.
- Amusement device. H. S. Thomas. No. 1,316,819; Sept. 23; v. 266; p. 505.
- Amusement device. J. Toney. No. 1,305,842; June 3; v. 263; p. 115.
- Amusement device. C. F. Zipf. No. 1,313,660; Aug. 19; v. 265; p. 391.
- Amusement riding device. A. Feltman. No. 1,293,393; Feb. 4; v. 259; p. 97.
- Amusement riding device. J. W. Michael. No. 1,301,476; Apr. 22; v. 261; p. 713.
- Amyl acetate and its homologues from chlor-hydrocarbons of the paraffin series, Manufacture of. G. G. Oberfell and H. T. Boyd. No. 1,302,583; May 6; v. 262; p. 19.
- Anchor. F. Baldt, Jr. No. 1,297,987; Mar. 25; v. 260; p. 570.
- Anchor. W. M. Bateman. No. 1,316,216; Sept. 16; v. 266; p. 343.
- Anchor. C. H. Boyles. No. 1,316,348; Sept. 16; v. 266; p. 367.
- Anchor. H. D. Deam. No. 1,325,693; Dec. 23; v. 269; p. 588.
- Anchor. T. P. Foster. No. 1,324,244; Dec. 9; v. 269; p. 237.
- Anchor. R. Player and W. Bayliss. No. 1,316,593; Sept. 23; v. 266; p. 463.
- Anchor. R. H. Reynolds. No. 1,319,419; Oct. 21; v. 267; p. 423.
- Anchor-bolt support. F. A. Keith. No. 1,323,067; Nov. 25; v. 268; p. 676.
- Anchor, Check-rod. W. F. Biermann. No. 1,306,045; June 10; v. 263; p. 174.
- Anchor, Expansion-. J. Kennedy. No. 1,320,622; Nov. 4; v. 268; p. 49.
- Anchor, Expansion-. J. Kennedy. No. 1,320,623; Nov. 4; v. 268; p. 50.
- Anchor, Expansive screw-. A. H. Waage. No. 1,302,609; May 6; v. 262; p. 24.
- Anchor for flashings. E. Biersach. No. 1,318,347; Oct. 14; v. 267; p. 191.
- Anchor for guy-rods. H. McGuckin. No. 1,312,918; Aug. 12; v. 265; p. 233.
- Anchor, grapple, and the like. C. C. Sherman and H. O. Mock. No. 1,295,076; Feb. 18; v. 259; p. 555.
- Anchor, Rail-. F. A. Poor. No. 1,318,107; Oct. 7; v. 267; p. 84.
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- Anchor, Safety-. G. F. Minnis. No. 1,319,890; Oct. 28; v. 267; p. 535.
- Anchor shank and shackle. W. M. Bateman. No. 1,321,356; Nov. 11; v. 268; p. 252.
- Anchor, Sheet-. L. V. W. Froger. No. 1,305,507; June 3; v. 263; p. 52.
- Anchor, Ship's. J. Taylor. No. 1,310,308; July 15; v. 264; p. 489.
- Anchor-strap. G. E. Seidel. No. 1,299,512; Apr. 8; v. 261; p. 232.
- Anchor, Wall-. N. K. Bowman. No. 1,311,038; July 22; v. 264; p. 655.
- Anchor, Wall-. I. B. Malaby. No. 1,293,844; Feb. 11; v. 259; p. 233.
- Anchors, Device for inserting fence-. J. T. Foulke. No. 1,311,335; July 29; v. 264; p. 743.
- Anchorage for towed bodies, Towing. C. D. Burney. No. 1,319,565; Oct. 21; v. 267; p. 450.
- Anchoring device. O. R. Carlson. No. 1,317,073; Sept. 23; v. 266; p. 551.
- Androns, radiator, and ventilator, Combined. J. A. Greene. No. 1,313,085; Aug. 12; v. 265; p. 267.
- Anesthetic apparatus. A. C. Clark. No. 1,302,133; Apr. 29; v. 261; p. 870.
- Anesthetic apparatus. J. A. Heidbrink. No. 1,309,686; July 15; v. 264; p. 376.
- Anesthetic dispenser. H. A. Clifford and J. W. Cobb. No. 1,318,266; Oct. 7; v. 267; p. 116.
- Anesthetic-machine. J. G. E. Hinkle. No. 1,312,117; Aug. 5; v. 265; p. 50.
- Anesthetics, Method and apparatus for administering. W. V. Goodfellow. No. 1,323,181; Nov. 25; v. 268; p. 698.
- Angle-adjusting mechanism. A. C. Roebuck. No. 1,293,553; Feb. 4; v. 259; p. 135.
- Angle-bar, Slot. E. B. Rice. No. 1,303,726; May 13; v. 262; p. 261.
- Angle-cutting machine. J. B. De Mars. No. 1,319,272; Oct. 21; v. 267; p. 394.



- Angle fixing and transposing device. A. J. Brock, Jr., and L. J. R. Holst. No. 1,304,017; May 20; v. 262; p. 352.
- Angle-gage. W. F. McDonald. No. 1,324,681; Dec. 9; v. 269; p. 321.
- Angle-gage, Depth. L. Lowenstein. No. 1,295,180; Feb. 25; v. 259; p. 602.
- Angle-guard. R. L. Wilcox. No. 1,305,328; June 3; v. 263; p. 19.
- Angle or corner brace. E. B. Young. No. 1,320,303; Oct. 28; v. 267; p. 611.
- Angle-plate, Adjustable. A. W. Nelson. No. 1,323,901; Dec. 2; v. 269; p. 128.
- Angler's tool. W. Ryerson. No. 1,322,826; Nov. 25; v. 268; p. 630.
- Angularity-indicator. W. C. Rieker. No. 1,305,935; June 3; v. 263; p. 134.
- Animal and fowl trap. J. H. Ogles. No. 1,315,391; Sept. 9; v. 266; p. 178.
- Animal-catcher. R. D. R. Holt. No. 1,297,468; Mar. 18; v. 260; p. 433.
- Animal-dosing device. W. M. Deming. No. 1,315,474; Sept. 9; v. 266; p. 193.
- Animal-drenching bit. R. L. McAlister. No. 1,311,409; July 29; v. 264; p. 757.
- Animal-marker. J. M. Wilson. No. 1,318,821; Oct. 14; v. 267; p. 282.
- Animal pens and stalls, Manger for. W. Loudon. No. 1,297,974; Mar. 18; v. 260; p. 541.
- Animal-releasing device. J. Christoffel. No. 1,294,400; Feb. 18; v. 259; p. 399.
- Animal-releasing device. J. Kiuru. No. 1,299,193; Apr. 1; v. 261; p. 132.
- Animal-releasing device. N. C. Simonsen. No. 1,295,622; Feb. 25; v. 259; p. 704.
- Animal-rubbing device. C. W. Sherman. No. 1,298,804; Apr. 1; v. 261; p. 44.
- Animal-shears. E. S. Bartlett, Sr. No. 1,301,089; Apr. 22; v. 261; p. 637.
- Animal tracks, Stamp for simulating. R. Leland. No. 1,314,276; Aug. 26; v. 265; p. 543.
- Animal-trap. S. D. Bales. No. 1,294,364; Feb. 11; v. 259; p. 354.
- Animal-trap. S. D. Bales. No. 1,312,943; Aug. 12; v. 265; p. 238.
- Animal-trap. J. Banash. No. 1,290,697; Jan. 7; v. 258; p. 165.
- Animal-trap. G. J. Blevins. No. 1,305,054; May 27; v. 262; p. 687.
- Animal-trap. A. M. Brown. No. 1,326,641; Dec. 30; v. 269; p. 801.
- Animal-trap. C. J. Carlson and A. W. Larson. No. 1,320,841; Nov. 4; v. 268; p. 91.
- Animal-trap. J. B. Corrigan. No. 1,308,277; July 1; v. 264; p. 49.
- Animal-trap. G. W. Curtis. No. 1,323,024; Nov. 25; v. 268; p. 668.
- Animal-trap. T. H. Donlon. No. 1,303,265; May 13; v. 262; p. 178.
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- Animal-trap. H. Downing. No. 1,317,866; Oct. 7; v. 267; p. 39.
- Animal-trap. J. R. and G. W. Elder. No. 1,307,963; June 24; v. 263; p. 604.
- Animal-trap. T. J. Ellison. No. 1,297,667; Mar. 18; v. 260; p. 475.
- Animal-trap. T. J. Ellison. No. 1,303,547; May 13; v. 262; p. 288.
- Animal-trap. E. M. Finney. No. 1,295,143; Feb. 25; v. 259; p. 594.
- Animal-trap. E. Gauthier. No. 1,296,282; Mar. 4; v. 260; p. 106.
- Animal-trap. G. W. Howe. No. 1,310,340; July 15; v. 264; p. 494.
- Animal-trap. A. Lokaj. No. 1,323,400; Dec. 2; v. 269; p. 33.
- Animal-trap. O. G. Meredith. No. 1,291,591; Jan. 14; v. 258; p. 399.
- Animal-trap. O. G. Meredith. No. 1,316,378; Sept. 16; v. 266; p. 373.
- Animal-trap. J. H. Ollier. No. 1,293,894; Feb. 11; v. 259; p. 244.
- Animal-trap. J. Sterbenz. No. 1,307,763; June 24; v. 263; p. 567.
- Animal-trap. C. A. Woolsey. No. 1,311,736; July 29; v. 264; p. 818.
- Animals, Rubbing device for. A. V. Rowe. No. 1,319,362; Oct. 21; v. 267; p. 411.
- Annealing and apparatus used therein. F. Twyman. No. 1,324,418; Dec. 9; v. 269; p. 271.
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- Annealing-furnace. J. J. Beeman. No. 1,305,991; June 10; v. 263; p. 174.
- Annealing-furnace. V. E. Lane. No. 1,292,617; Jan. 28; v. 258; p. 702.
- Annealing-furnace. M. U. Wikstrom. No. 1,319,741; Oct. 28; v. 267; p. 506.
- Annular articles, Forming. W. G. Christopherson. No. 1,322,760; Nov. 25; v. 268; p. 618.
- Annular bodies from the hardening liquid, Means for removing hardened. A. G. E. Hultgren. No. 1,308,077; July 1; v. 264; p. 13.
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- Anodes of solid manganese peroxid, Making. M. Huth. No. 1,296,188; Mar. 4; v. 260; p. 86.
- Anti-killing machine. E. and J. Graumann. No. 1,290,544; Jan. 7; v. 258; p. 128.
- Ant-trap. L. R. Alderman and A. G. Smith. No. 1,314,112; Aug. 26; v. 265; p. 511.
- Antennae, Propagating electric impulses in. O. G. H. E. Kehrhabn. No. 1,325,250; Dec. 16; v. 269; p. 488.
- Anthracene press-cake, Treatment of. C. E. Andrews. No. 1,324,717; Dec. 9; v. 269; p. 327.
- Anthracene, Production of. P. Leroux. No. 1,326,515; Dec. 30; v. 269; p. 778.
- Anthraquinon, Purification of crude. C. E. Andrews. No. 1,324,716; Dec. 9; v. 269; p. 327.
- Anthraquinone, Manufacture of. C. Conover. No. 1,303,168; May 6; v. 262; p. 132.
- Anthraquinone, Purifying commercial. H. F. Lewis and H. D. Gibbs. No. 1,293,610; Feb. 4; v. 259; p. 147.
- Anti-window-rattler. B. Keister. No. 1,294,915; Feb. 18; v. 259; p. 519.
- Anticlog tractor-wheel. M. C. French. No. 1,323,687; Dec. 2; v. 269; p. 87.
- Anticreeper. L. O. Henggi. No. 1,300,612; Apr. 15; v. 261; p. 498.
- Antifreezing-circulator. F. E. Comstock. No. 1,309,243; July 8; v. 264; p. 256.
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- Antifreezing solution. M. J. Reusz. No. 1,311,178; Oct. 21; v. 267; p. 377.
- Antifriction-bearings, Plumber-block for. E. H. W. Weibull. No. 1,304,832; May 27; v. 262; p. 545.
- Antifriction side bearing. E. W. Webb. No. 1,318,710; Oct. 14; v. 262; p. 261.
- Antifriction-wheel. F. Chevalier. No. 1,293,707; Feb. 11; v. 259; p. 200.
- Antigas-respirator. H. Romanoff. No. 1,298,404; Mar. 25; v. 260; p. 657.
- Antirattler and locking device for blinds. J. D. Campbell and W. H. Hoag. No. 1,324,641; Dec. 9; v. 269; p. 313.
- Antirattler for sashes. J. D. Campbell and W. H. Hoag. No. 1,324,642; Dec. 9; v. 269; p. 314.
- Antirattling device. W. B. Le Bourgeois. No. 1,314,001; Aug. 26; v. 265; p. 490.
- Antirecoil-spring, Compound. O. N. Beam. No. 1,295,954; Mar. 4; v. 260; p. 31.
- Antirocking device for rocking-chairs. T. Wright. No. 1,323,946; Dec. 2; v. 269; p. 136.
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- Antiskid attachments, Coupling for. W. H. Krug. No. 1,307,055; June 17; v. 263; p. 405.
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- Antiskid-chain. W. Schwartz. No. 1,315,866; Sept. 9; v. 266; p. 263.
- Antiskid-chain clasp. G. F. Severs. No. 1,299,864; Apr. 8; v. 261; p. 313.
- Antiskid-chain coupling. W. H. Krug. No. 1,302,470; Apr. 29; v. 261; p. 934.
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- Antiskid-chain holder. J. I. Randolph. No. 1,320,916; Nov. 4; v. 268; p. 105.
- Antiskid device. W. G. Cramer. No. 1,311,048; July 22; v. 264; p. 657.
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- Antiskid device. H. Heller. No. 1,312,729; Aug. 12; v. 265; p. 196.
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- Antiskid device for vehicle-wheels. I. W. Glazner. No. 1,311,554; July 29; v. 264; p. 784.
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- Antiskidding and traction device. J. Nelson. No. 1,294,523; Feb. 18; v. 259; p. 428.



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- Antiskidding brake. A. W. Tweeden. No. 1,323,934; Dec. 2; v. 269; p. 134.
- Antiskidding chain for wheels. J. F. Herman. No. 1,315,366; Sept. 9; v. 266; p. 173.
- Antiskidding device. F. Aufinger. No. 1,314,782; Sept. 2; v. 266; p. 57.
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- Antiskidding device. H. H. Hartung. No. 1,293,424; Feb. 4; v. 259; p. 105.
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- Antislipping device. R. H. Cotter. No. 1,293,349; Feb. 4; v. 259; p. 87.
- Antislipping device. G. Heitler. No. 1,319,074; Oct. 21; v. 267; p. 356.
- Antislipping device for tires. W. J. Edwards. No. 1,308,057; July 1; v. 264; p. 9.
- Antislipping ladder attachment. C. J. Brown. No. 1,304,018; May 20; v. 262; p. 352.
- Antisubluxation device. H. C. Buswell. No. 1,294,393; Feb. 18; v. 259; p. 396.
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- Antisubmarine device. T. Kusniercz. No. 1,299,962; Apr. 8; v. 261; p. 333.
- Antisubmarine device. H. Lemiszczak. No. 1,294,920; Feb. 18; v. 259; p. 520.
- Antisubmarine device. W. Pazaychuck and W. Patz. No. 1,302,206; Apr. 29; v. 261; p. 883.
- Antisubmarine device. M. Plerog. No. 1,299,775; Apr. 8; v. 261; p. 293.
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- Antivibrating means for self-laying tracks. W. Turnbull. No. 1,314,621; Sept. 2; v. 266; p. 28.
- Antivibration suspension device. F. A. Ross. No. 1,302,482; Apr. 29; v. 261; p. 937.
- Anvil and set-gage. Combined hand-. A. C. Carlisle. No. 1,299,297; Apr. 1; v. 261; p. 155.
- Anvil-knife. R. F. Lovejoy and G. D. Alexis. No. 1,298,526; Mar. 25; v. 260; p. 686.
- Anvil, Rotary. I. T. Branson. No. 1,324,492; Dec. 9; v. 269; p. 285.
- Anvil, Saw-straightening. T. Webb. No. 1,317,902; Oct. 7; v. 267; p. 46.
- Anvil swage attachment. A. L. Amos. No. 1,300,324; Apr. 15; v. 261; p. 438.
- Aperture-plate and film guide and tension device. M. L. Parret. No. 1,305,971; June 3; v. 263; p. 141.
- Apparel, Button for wearing-. A. S. Welply. No. 1,315,752; Sept. 9; v. 266; p. 241.
- Apparel, Life-saving. F. Zaccard and T. P. McDonough. No. 1,314,299; Aug. 26; v. 265; p. 547.
- Apparel, Wearing-. J. K. Griffith. No. 1,299,329; Apr. 1; v. 261; p. 162.
- Apparel, Wearing-. M. A. Wetzel. No. 1,302,108; Apr. 29; v. 261; p. 865.
- Applicator. F. E. Ringe. No. 1,319,115; Oct. 21; v. 267; p. 364.
- Applying and drying machine. Compound. N. Troyer. No. 1,308,208; July 1; v. 264; p. 37.
- Apron. E. L. Henderson. No. 1,323,859; Dec. 2; v. 269; p. 119.
- Apron, Sanitary. A. C. Davis. No. 1,311,759; July 29; v. 264; p. 822.
- Aquarium. W. Mack. No. 1,322,322; Nov. 18; v. 268; p. 484.
- Aquarium, Illuminated. N. Sato. No. 1,297,254; Mar. 11; v. 260; p. 358.
- Aquatic appliance. M. Katzmarek. No. 1,318,451; Oct. 14; v. 267; p. 212.
- Aquatic device. M. C. White. No. 1,315,267; Sept. 9; v. 266; p. 155.
- Arbor draw-press, Multiple-. H. A. Staples. No. 1,293,231; Feb. 4; v. 259; p. 59.
- Arbor-indicator. S. Picard. No. 1,297,729; Mar. 18; v. 260; p. 489.
- Arbor-press. E. E. Bartlett. No. 1,312,671; Aug. 12; v. 265; p. 185.
- Arbor-support. H. W. Jacobson. No. 1,304,684; May 27; v. 262; p. 518.
- Arbor-support. E. J. Lees. No. 1,296,821; Mar. 11; v. 260; p. 262.
- Arbors, &c., Means for centering rings on. B. D. Gray. No. 1,316,709; Sept. 23; v. 266; p. 485.
- Arc cutting and welding apparatus. Alternating-current metallic-. C. J. Holslag. No. 1,305,363; June 3; v. 263; p. 25.
- Arc device, Inclosed-. P. K. Devers, Jr. No. 1,310,067; July 15; v. 264; p. 445.
- Arc device, Inclosed-. J. A. Orange. No. 1,306,559; June 10; v. 263; p. 281.
- Arc-extinguisher. F. E. Ricketts. No. 1,308,257; July 1; v. 264; p. 46.
- Arc-extinguishing device. P. MacGahan. No. 1,308,249; July 1; v. 264; p. 44.
- Arc-extinguishing device. P. MacGahan. No. 1,308,365; July 1; v. 264; p. 65.
- Arc-extinguishing device. R. T. Pierce. No. 1,308,256; July 1; v. 264; p. 45.
- Arc-regulating system. H. Hollis. No. 1,298,715; Apr. 1; v. 261; p. 22.
- Arc-welding or allied work, Mask for use in. C. J. Holslag. No. 1,305,364; June 3; v. 263; p. 25.
- Arch and heel support. Pneumatic. B. Stewart. No. 1,313,924; Aug. 26; v. 265; p. 475.
- Arch construction, Hanging-. E. P. Stevens. No. 1,317,460; Sept. 30; v. 266; p. 661.
- Arch-form, Collapsible. G. A. Compton. No. 1,294,239; Feb. 11; v. 259; p. 327.
- Arch-form, Collapsible. G. A. Compton, A. B. Ness, W. H. Gausewitz, and G. A. Green. No. 1,306,172; June 10; v. 263; p. 207.
- Arch-support. S. H. Boone. No. 1,320,364; Oct. 28; v. 267; p. 622.
- Arch-support. B. Campbell. No. 1,325,076; Dec. 16; v. 269; p. 456.
- Arch-support. R. S. Carling. No. 1,325,830; Dec. 23; v. 269; p. 613.
- Arch-support. M. L. Cook. No. 1,318,972; Oct. 14; v. 267; p. 312.
- Arch-support. J. J. Keys. No. 1,317,021; Sept. 23; v. 266; p. 542.
- Arch-support. F. S. Lewis. No. 1,301,579; Apr. 22; v. 261; p. 732.
- Arch-support. A. Mayer. No. 1,311,240; July 29; v. 264; p. 725.
- Arch-support. G. H. Ricke. No. 1,299,615; Apr. 8; v. 261; p. 255.
- Arch-support. C. L. Skinner and P. A. Tucker. No. 1,297,922; Mar. 18; v. 260; p. 530.
- Arches, Means for extinguishing. E. O. Schweitzer and N. J. Conrad. No. 1,319,907; Oct. 28; v. 267; p. 538.
- Arch-support, Pneumatic. R. S. Carling. No. 1,316,423; Sept. 16; v. 266; p. 382.
- Arch-support, Resilient. C. E. Hilton. No. 1,316,156; Sept. 16; v. 266; p. 331.
- Arches, Method and apparatus for constructing. C. Brynoldt. No. 1,293,006; Feb. 4; v. 259; p. 8.
- Architectural finish, Composition for. C. P. Anderson. No. 1,290,035; Jan. 7; v. 258; p. 5.
- Arm and hand, Artificial. G. Haertel. No. 1,322,108; Nov. 18; v. 268; p. 443.
- Arm and hand, Artificial. J. T. Jensen. No. 1,303,905; May 20; v. 262; p. 332.
- Arm, Artificial. J. Krawczynski. No. 1,301,575; Apr. 22; v. 261; p. 731.
- Arm, Artificial. A. K. Petron. No. 1,299,505; Apr. 8; v. 261; p. 230.
- Arm-resting-holding means. F. F. Schwaller and T. M. Quinn. No. 1,300,883; Apr. 15; v. 261; p. 556.
- Arm, Shoulder-. T. C. Johnson. No. 1,323,065; Nov. 25; v. 268; p. 675.
- Armature. J. W. Pearson. No. 1,320,795; Nov. 4; v. 268; p. 82.
- Armature-winding. R. E. Hellmund. No. 1,298,705; Apr. 1; v. 261; p. 19.
- Armature-winding dynamo-electric machine. C. E. Wilson. No. 1,292,551; Jan. 28; v. 258; p. 685.
- Armature-winding machine. H. C. Mueller. No. 1,312,564; Aug. 12; v. 265; p. 164.
- Armatures, stators, &c., Filing slots in. W. Ransley. No. 1,322,615; Nov. 25; v. 268; p. 592.
- Armbands and the like, Clasp for. T. A. Schaffer. No. 1,300,198; Apr. 8; v. 261; p. 385.
- Armor. J. M. Perlman. No. 1,296,113; Mar. 4; v. 260; p. 68.
- Armor, Finger-. N. C. Fleming. No. 1,316,292; Sept. 16; v. 266; p. 357.
- Armor-plate, Machine for punching. F. A. Stevenson. No. 1,318,023; Oct. 7; v. 267; p. 69.
- Armor-plate mounting. J. Mileski. No. 1,303,355; May 13; v. 262; p. 193.
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- Armor, Soldier's. S. Suderlock. No. 1,294,191; Feb. 11; v. 259; p. 315.
- Armor, Soldier's. F. Wloszek. No. 1,298,618; Mar. 25; v. 260; p. 704.



- Armored inner tube. H. H. Schuster. No. 1,297,408; Mar. 18; v. 260; p. 420.
- Armored inner tube. H. N. Wayne. No. 1,297,278; Mar. 11; v. 260; p. 364.
- Armored war apparatus. P. C. Broadway. No. 1,303,764; May 13; v. 262; p. 268.
- Armored war-tank. F. W. Wagner. No. 1,292,170; Jan. 21; v. 258; p. 573.
- Armoring, Protective. A. D. Daigre. No. 1,324,234; Dec. 9; v. 269; p. 235.
- Armpit-shield. V. G. Miller. No. 1,291,073; Jan. 14; v. 258; p. 280.
- Aromatic bodies, Oxidation of. C. E. Andrews. No. 1,324,715; Dec. 9; v. 269; p. 327.
- Arsenious and selenious oxides, Apparatus for recovery of. H. Jander. No. 1,321,211; Nov. 11; v. 268; p. 224.
- Arsenical compound. W. A. Jacobs, W. H. Brown, M. Heidelberger, and L. Pearce. No. 1,315,127; Sept. 2; v. 266; p. 119.
- Arsenical medical product and producing same. J. M. White. No. 1,297,952; Mar. 18; v. 260; p. 537.
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- Article-holder. J. F. Ford. No. 1,309,125; July 8; v. 264; p. 235.
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- Articles from pulp, Manufacturing. W. H. Drake. No. 1,305,203; May 27; v. 262; p. 615.
- Articles of manufacture and making same. E. C. Borchers. No. 1,326,639; Dec. 30; v. 269; p. 801.
- Articulator and grinder, Mechanical. H. Mannon, H. M. Brown, and R. G. Perkins. No. 1,324,429; Dec. 9; v. 269; p. 273.
- Artificial dentures and occluding-forms for same, Making. O. E. Wall. No. 1,303,223; May 6; v. 262; p. 142.
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- Artillery fire on moving objects, Apparatus for directing. J. S. Wilson and W. E. Dalby. No. 1,322,154; Nov. 18; v. 268; p. 452.
- Artillery, Mobile mount for heavy. M. Wildrick. No. 1,311,786; July 29; v. 264; p. 827.
- Artillery-range for instructional purposes, Model. R. Fitz Power. No. 1,296,426; Mar. 4; v. 260; p. 137.
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- Asbestos cement. H. S. Ashenhurst. No. 1,317,853; Oct. 7; v. 267; p. 37.
- Ash-cart cover. S. Rochlis. No. 1,294,708; Feb. 18; v. 259; p. 470.
- Ash-conveyor system. J. A. Daviess. No. 1,293,360; Feb. 4; v. 259; p. 90.
- Ash-conveyor-system tank. T. K. Webster, Jr. No. 1,313,436; Aug. 19; v. 265; p. 349.
- Ash-conveying system. H. A. Poppenhusen and A. P. Strong. No. 1,311,296; July 29; v. 264; p. 735.
- Ash-conveying system. H. A. Poppenhusen. No. 1,314,699; Sept. 2; v. 266; p. 43.
- Ash-conveying system. H. A. Poppenhusen and A. P. Strong. No. 1,324,980; Dec. 16; v. 269; p. 438.
- Ash-conveying system. A. P. Strong. No. 1,301,194; Apr. 22; v. 261; p. 659.
- Ash-conveying system. A. P. Strong. No. 1,311,297; July 29; v. 264; p. 736.
- Ash-ejector. G. Purvis. No. 1,305,564; June 3; v. 263; p. 64.
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- Ash-pan. E. M. Gehrman. No. 1,318,548; Oct. 14; v. 267; p. 231.
- Ash-pan. J. Klucina. No. 1,308,245; July 1; v. 264; p. 44.
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- Ash receptacle and sifter. A. W. Bock. No. 1,321,971; Nov. 18; v. 268; p. 419.
- Ash-sifter. P. J. Brennan. No. 1,316,137; Sept. 16; v. 266; p. 327.
- Ash-sifter. S. Heath. No. 1,294,262; Feb. 11; v. 259; p. 331.
- Ash-sifter. L. B. Shader. No. 1,320,418; Nov. 4; v. 268; p. 12.
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- Ash-sifter and coal-bin, Combination. J. Bizet. No. 1,323,000; Nov. 25; v. 268; p. 663.
- Ash-sifter, Dustless. H. Sr., and H. A. Kemmerer, Jr. No. 1,318,289; Oct. 7; v. 267; p. 121.
- Ash-sifter, Portable. J. I. Ormsby. No. 1,314,424; Aug. 26; v. 265; p. 571.
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- Ash-sifting apparatus. C. M. Drinkwater. No. 1,290,525; Jan. 7; v. 258; p. 124.
- Ash-sifting apparatus. C. M. Drinkwater. No. 1,290,725; Jan. 7; v. 258; p. 173.
- Ash solutions, Apparatus for filtering black-. H. L. Dunkle. No. 1,320,324; Oct. 28; v. 267; p. 615.
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- Ashes, Collecting, sifting, and removing. J. F. Linton. No. 1,314,677; Sept. 2; v. 266; p. 39.
- Asparagus-handling machines, Feeder adapted for. D. Low and A. R. Thompson. No. 1,299,198; Apr. 1; v. 261; p. 133.
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- Asphalt-heater. W. G. Chausse. No. 1,295,694; Feb. 25; v. 259; p. 721.
- Asphaltic or similar mixtures, Machine for making. N. M. Rosendahl. No. 1,293,937; Feb. 11; v. 259; p. 254.
- Asphaltic plates and asphaltic articles of a similar nature, Manufacture of. H. Inoue. No. 1,304,483; May 20; v. 262; p. 441.
- Asphaltic waste products, Reclaiming. S. M. Ford. No. 1,290,954; Jan. 14; v. 258; p. 252.
- Assembling and pulling-over machine. A. Perri. No. 1,324,268; Dec. 9; v. 269; p. 241.
- Assembling-machine. F. R. Batchelder. No. 1,302,280; Apr. 29; v. 261; p. 897.
- Assembly-machine. O. M. Kelley. No. 1,320,238; Oct. 28; v. 267; p. 599.
- Assorting-machine. E. Danner. No. 1,309,086; July 8; v. 264; p. 227.
- Assorting materials, Method of and apparatus for. G. Goddu. No. 1,301,683; Apr. 22; v. 261; p. 753.
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- Atmospheres, Method and apparatus for the differential detection of combustible. T. M. and E. M. Chance. No. 1,298,890; Apr. 1; v. 261; p. 62.
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- Atomizer, Liquid-. D. J. Irish. No. 1,300,615; Apr. 15; v. 261; p. 499.
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- Attachment device. I. Scheinman. No. 1,293,944; Feb. 11; v. 259; p. 256.
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- Audiphone-transmitter, Portable. C. E. Williams. No. 1,311,430; July 29; v. 264; p. 761.
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- Auger. A. L. Warren. No. 1,293,265; Feb. 4; v. 259; p. 68.
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- Auto attachment. W. W. and S. I. Wendell. No. 1,302,112; Apr. 29; v. 261; p. 865.
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- Auto-engine-cylinder air cooling system. E. T. Wheeler. No. 1,300,073; Apr. 8; v. 261; p. 356.
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- Auto-power-transmission attachment. E. A. Basel. No. 1,316,529; Sept. 16; v. 266; p. 403.
- Auto-power-transmission attachment. E. A. Basel. No. 1,316,530; Sept. 16; v. 266; p. 403.
- Auto running-board carrier attachment. G. H. Phillips. No. 1,295,923; Mar. 4; v. 260; p. 23.
- Auto-shade. A. T. Langford. No. 1,298,739; Apr. 1; v. 261; p. 28.
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- Auto-top. S. T. Allen. No. 1,305,185; May 27; v. 262; p. 611.
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- Auto-turning device. G. Czippan. No. 1,301,659; Apr. 22; v. 261; p. 748.
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- Automatic gate. M. J. C. A. Maurer. No. 1,324,127; Dec. 9; v. 269; p. 214.
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- Automatic sprinkler. A. J. Loepsinger. No. 1,290,602; Jan. 7; v. 258; p. 142.
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- Automatic sprinkler system. A. J. Loepsinger. No. 1,305,912; June 3; v. 263; p. 129.
- Automatic switch. E. L. Burton. No. 1,301,100; Apr. 22; v. 261; p. 639.
- Automatic switch. O. E. Rasmussen. No. 1,324,847; Dec. 16; v. 269; p. 413.
- Automatic switch. J. N. Reynolds and J. F. Hearn. No. 1,309,304; July 8; v. 264; p. 267.
- Automatic switch. J. L. McQuarrie. No. 1,291,978; Jan. 21; v. 258; p. 526.
- Automatic switch. E. W. Whitley. No. 1,316,212; Sept. 16; v. 266; p. 342.
- Automatic turning-machine. F. H. Bancroft. No. 1,323,569; Dec. 2; v. 269; p. 65.
- Automatic wrench. H. F. Corey. No. 1,309,462; July 8; v. 264; p. 296.
- Automatically-propelled device. G. S. Stuart. No. 1,320,348; Oct. 28; v. 267; p. 619.
- Automaton. M. H. Shoenberg. No. 1,292,105; Jan. 21; v. 258; p. 557.
- Automaton articulated eyes. M. Gerberg. No. 1,290,967; Jan. 14; v. 258; p. 255.
- Automobile. R. S. Fend. No. 1,303,870; May 20; v. 262; p. 326.
- Automobile. R. S. Fend. No. 1,314,738; Sept. 2; v. 266; p. 50.
- Automobile. A. H. C. Gibson. No. 1,293,642; Feb. 4; v. 259; p. 155.
- Automobile. S. E. Harsh. No. 1,318,869; Oct. 14; v. 267; p. 292.
- Automobile. M. J. Huggins. No. 1,293,100; Feb. 4; v. 259; p. 30.
- Automobile. W. H. B. Johnson, T. E. Lind, and T. W. Clarke. No. 1,301,447; Apr. 22; v. 261; p. 708.
- Automobile. O. G. Luytles. No. 1,299,844; Apr. 8; v. 261; p. 308.
- Automobile. H. F. Manley. No. 1,303,350; May 13; v. 262; p. 192.
- Automobile-accelerator. R. W. Muir. No. 1,318,100; Oct. 7; v. 267; p. 83.
- Automobile air-brake. G. C. Higbee. No. 1,297,165; Mar. 11; v. 260; p. 340.
- Automobile air-locking means. J. A. Bowden. No. 1,294,328; Feb. 11; v. 259; p. 347.
- Automobile-alarm. W. J. Bailey. No. 1,318,127; Oct. 7; v. 267; p. 89.
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- Automobile-alarm. T. H. Smith. No. 1,311,019; July 22; v. 264; p. 651.
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- Automobile and engine lock attachment. W. A. Randle. No. 1,317,315; Sept. 30; v. 266; p. 633.
- Automobile and railway wheel. R. Kiszka. No. 1,293,118; Feb. 4; v. 259; p. 34.
- Automobile and the like adjustable gear-shift lever. G. A. E. Mellin. No. 1,301,475; Apr. 22; v. 261; p. 713.
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- Automobile attachment. G. W. Steinbauer. No. 1,309,491; July 8; v. 264; p. 302.
- Automobile attachment. M. C. Wertzler. No. 1,320,517; Nov. 4; v. 268; p. 30.
- Automobile-axle truss. J. L. Kelly. No. 1,299,732; Apr. 8; v. 261; p. 282.
- Automobile bar-bumper. F. Amato. No. 1,313,043; Aug. 12; v. 265; p. 258.
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- Automobile-bed structure. M. B. Fox. No. 1,322,100; Nov. 18; v. 268; p. 442.
- Automobile bodies, Screen for inclosed. W. B. Herbst. No. 1,312,542; Aug. 12; v. 265; p. 159.
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- Automobile-body construction. P. A. Schwab. No. 1,320,101; Oct. 28; v. 267; p. 574.
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- Automobile-engine humidifier. H. P. Roberts. No. 1,290,763; Jan. 7; v. 258; p. 185.
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- Automobile fuel-supply system. T. J. Fay. No. 1,325,318; Dec. 16; v. 269; p. 501.
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- Automobile-jack. F. R. Elizondo. No. 1,297,334; Mar. 18; v. 260; p. 406.
- Automobile-jack. J. W. Lawrie. No. 1,297,874; Mar. 18; v. 260; p. 519.
- Automobile-jack. C. H. Rose and A. Heinz. No. 1,307,600; June 24; v. 263; p. 537.
- Automobile-jack. H. B. Sherman. No. 1,322,360; Nov. 18; v. 268; p. 491.
- Automobile-jack. O. A. and E. F. Taege. No. 1,319,934; Oct. 28; v. 267; p. 543.
- Automobile jack and ambulance, Combined. A. C. Hopkins. No. 1,303,318; May 13; v. 262; p. 187.
- Automobile-jack, Automatic. W. Cramer. No. 1,290,916; Jan. 14; v. 258; p. 243.
- Automobile jack, lock, and antiskid. C. D. Vollmer and M. Laskowitz. No. 1,325,600; Dec. 23; v. 269; p. 570.
- Automobile-knuckle. J. J. Stensgard. No. 1,302,989; May 6; v. 262; p. 97.
- Automobile latch-releasing mechanism. W. J. Buechler. No. 1,323,741; Dec. 2; v. 269; p. 97.
- Automobile license-bracket. W. L. Almquist. No. 1,323,211; Nov. 25; v. 268; p. 704.
- Automobile license-tag. E. S. Shaw. No. 1,323,325; Dec. 2; v. 269; p. 19.
- Automobile-lift. A. A. Unruh. No. 1,325,968; Dec. 23; v. 269; p. 639.
- Automobile-lifter. P. Ide. No. 1,299,730; Apr. 8; v. 261; p. 282.
- Automobile-lifter. L. L. Kellogg. No. 1,291,546; Jan. 14; v. 258; p. 388.
- Automobile-lifting grapple. G. Wood and E. Reagan. No. 1,320,723; Nov. 4; v. 268; p. 68.
- Automobile lifting-jack. A. J. and L. Perkins. No. 1,322,941; Nov. 25; v. 268; p. 652.
- Automobile light and dimmer. M. Cox. No. 1,293,719; Feb. 11; v. 259; p. 203.
- Automobile light-circuit controller. A. A. Leupold. No. 1,291,944; Jan. 21; v. 258; p. 517.
- Automobile-light, Dirigible. J. H. Stout and L. C. Plater. No. 1,317,528; Sept. 30; v. 266; p. 674.
- Automobile-light-wiring connection. F. E. Mullin. No. 1,295,191; Feb. 25; v. 259; p. 604.
- Automobile-loading device. C. C. Smith. No. 1,297,923; Mar. 18; v. 260; p. 530.
- Automobile-lock. H. Auperl. No. 1,316,407; Sept. 16; v. 266; p. 378.



- Automobile-lock. W. H. Austin. No. 1,315,003; Sept. 2; v. 266; p. 97.
- Automobile-lock. J. A. Beil and F. J. Hoff. No. 1,294,754; Feb. 18; v. 259; p. 481.
- Automobile-lock. F. O. Boswell. No. 1,302,502; May 6; v. 262; p. 5.
- Automobile-lock. J. L. Day. No. 1,293,362; Feb. 4; v. 259; p. 90.
- Automobile-lock. J. M. and T. N. De Pue. No. 1,315,949; Sept. 16; v. 266; p. 293.
- Automobile-lock. N. S. Dreis. No. 1,312,435; Aug. 5; v. 265; p. 109.
- Automobile-lock. W. T. Estberg. No. 1,305,786; June 3; v. 263; p. 105.
- Automobile-lock. A. D. Fenno. No. 1,307,001; June 17; v. 263; p. 395.
- Automobile-lock. L. L. Gibson. No. 1,296,382; Mar. 4; v. 260; p. 128.
- Automobile-lock. C. V. Gustin. No. 1,318,991; Oct. 14; v. 267; p. 315.
- Automobile-lock. J. H. Hill. No. 1,314,329; Aug. 26; v. 265; p. 553.
- Automobile-lock. W. B. Hill. No. 1,293,095; Feb. 4; v. 259; p. 29.
- Automobile-lock. J. Junkunc. No. 1,326,404; Dec. 30; v. 269; p. 756.
- Automobile-lock. R. W. Kumler. No. 1,292,486; Jan. 28; v. 258; p. 669.
- Automobile-lock. C. A. Kurz. No. 1,301,576; Apr. 22; v. 261; p. 731.
- Automobile-lock. C. H. Leahan. No. 1,320,771; Nov. 4; v. 268; p. 77.
- Automobile-lock. J. H. McClure. No. 1,296,301; Mar. 4; v. 260; p. 110.
- Automobile-lock. A. M. McGiff and H. Chinsky. No. 1,324,457; Dec. 9; v. 269; p. 278.
- Automobile-lock. E. S. McKean. No. 1,296,987; Mar. 11; v. 260; p. 301.
- Automobile-lock. E. C. McKinnie. No. 1,326,149; Dec. 23; v. 269; p. 672.
- Automobile-lock. J. A. Olbon. No. 1,318,103; Oct. 7; v. 267; p. 84.
- Automobile-lock. B. E. Pickel. No. 1,318,913; Oct. 14; v. 267; p. 300.
- Automobile-lock. J. Podufaly. No. 1,308,298; July 1; v. 264; p. 53.
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- Automobile-lock. J. L. Poland. No. 1,305,563; June 3; v. 263; p. 64.
- Automobile-lock. R. C. Price. No. 1,312,204; Aug. 5; v. 265; p. 66.
- Automobile-lock. T. A. Reeder. No. 1,325,307; Dec. 16; v. 269; p. 500.
- Automobile-lock. C. D. Rousseau. No. 1,320,415; Nov. 4; v. 268; p. 11.
- Automobile-lock. L. M. Scott. No. 1,315,868; Sept. 9; v. 266; p. 263.
- Automobile-lock. J. Stanley. No. 1,295,810; Feb. 25; v. 259; p. 747.
- Automobile-lock. E. Stigleman. No. 1,293,236; Feb. 4; v. 259; p. 60.
- Automobile-lock. O. Tiedemann. No. 1,320,588; Nov. 4; v. 268; p. 43.
- Automobile-lock. D. Trembley. No. 1,325,178; Dec. 16; v. 269; p. 475.
- Automobile-lock. L. W. Welsh. No. 1,309,925; July 15; v. 264; p. 420.
- Automobile lock and burglar-alarm. J. E. Erickson. No. 1,324,499; Dec. 9; v. 269; p. 286.
- Automobile lock and signal. J. E. Marshall and T. J. Volz. No. 1,297,214; Mar. 11; v. 260; p. 250.
- Automobile, lock for shift-levers of. E. V. Noser. No. 1,313,412; Aug. 19; v. 265; p. 345.
- Automobile-locking device. F. Kimble. No. 1,300,735; Apr. 15; v. 261; p. 525.
- Automobile-locking device. E. F. O'Leary and A. E. Bloxson. No. 1,291,617; Jan. 14; v. 258; p. 405.
- Automobile luggage-carrier. C. Doughty. No. 1,312,524; Aug. 12; v. 265; p. 156.
- Automobile luggage-carrier. M. Meyer and P. W. Gessner. No. 1,304,502; May 20; v. 262; p. 445.
- Automobile machinery. J. Bijur. No. 1,316,998; Sept. 23; v. 266; p. 537.
- Automobile-mirror. G. H. Lutz. No. 1,324,456; Dec. 9; v. 269; p. 278.
- Automobile mirror-mount. H. W. Lester and A. M. Starr. No. 1,290,252; Jan. 7; v. 258; p. 58.
- Automobile, motor-truck, and similar vehicle radiator. C. F. and F. Sperry. No. 1,301,984; Apr. 29; v. 261; p. 842.
- Automobile mowing attachment. M. C. Rice. No. 1,295,925; Mar. 4; v. 260; p. 23.
- Automobile number-holder. J. A. Lawler. No. 1,300,743; Apr. 15; v. 261; p. 526.
- Automobile number-plate. G. E. Wack. No. 1,295,941; Mar. 4; v. 260; p. 27.
- Automobile offset for pedals. H. T. Norris. No. 1,302,837; May 6; v. 262; p. 68.
- Automobile one-man top. A. W. Curtis. No. 1,293,355; Feb. 4; v. 259; p. 89.
- Automobile-operated mechanism. C. E. Morris. No. 1,301,294; Apr. 22; v. 261; p. 679.
- Automobile or other vehicle signal device. H. Helfenbein. No. 1,298,205; Mar. 25; v. 260; p. 616.
- Automobile or tire theft alarm. D. T. and C. C. Keenan. No. 1,310,349; July 15; v. 264; p. 496.
- Automobile or truck wheel. H. E. and P. R. Simmons. No. 1,310,303; July 15; v. 264; p. 488.
- Automobile pedal attachment. F. C. Grant. No. 1,292,760; Jan. 28; v. 258; p. 735.
- Automobile-pedal attachment. F. C. Grant. No. 1,310,186; July 15; v. 264; p. 466.
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- Automobile pneumatic starter. T. Davis. No. 1,294,058; Feb. 11; v. 259; p. 284.
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- Automobile power plants. Protecting mechanism for steam-. A. Doble. No. 1,313,527; Aug. 19; v. 265; p. 367.
- Automobile pull-out. C. Gilbertson and K. W. Tanner. No. 1,293,754; Feb. 11; v. 259; p. 212.
- Automobile-puller. J. C. Caldwell and A. H. Adams. No. 1,290,077; Jan. 7; v. 258; p. 15.
- Automobile-puller. B. A. Rexford. No. 1,301,743; Apr. 22; v. 261; p. 765.
- Automobile-pusher. R. Ball. No. 1,322,397; Nov. 18; v. 268; p. 499.
- Automobile-rack, transportable adjustable. J. I. McFarland. No. 1,290,267; Jan. 7; v. 258; p. 62.
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- Automobile-radiator protector. W. Bartlet. No. 1,326,167; Dec. 30; v. 269; p. 712.
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- Automobile-radiator shield. H. A. Rishel. No. 1,298,094; Mar. 25; v. 260; p. 591.
- Automobile-radiator shield. H. A. Rishel. No. 1,298,095; Mar. 25; v. 260; p. 591.
- Automobile radiator-tank. W. Johnson and G. E. Schoff-stall. No. 1,301,446; Apr. 22; v. 261; p. 708.
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- Automobile-radiators, apparatus for repairing. W. Jerden. No. 1,321,310; Nov. 11; v. 268; p. 244.
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- Automobile-spring and connection therefor. D. W. Jones. No. 1,292,611; Jan. 28; v. 258; p. 700.
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- Automobile starting and lighting system. W. L. Bliss. No. 1,293,314; Feb. 4; v. 259; p. 79.
- Automobile starting-switch. B. D. Kunkle. No. 1,314,524; Sept. 2; v. 266; p. 9.
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- Automobile-steering-gear attachment. G. W. Mock. No. 1,290,634; Jan. 7; v. 258; p. 150.
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- Automobile steering-wheel. H. E. Sheller. No. 1,324,697; Dec. 9; v. 269; p. 324.
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- Automobile-steering-wheel lock. A. C. Allan. No. 1,298,853; Apr. 1; v. 261; p. 55.
- Automobile-steering-wheel lock. H. A. Husted. No. 1,324,823; Dec. 16; v. 269; p. 409.
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- Automobile switch-lock. J. H. Shaw. No. 1,303,825; May 13; v. 262; p. 279.
- Automobile system. A. Fuchs. No. 1,325,193; Dec. 16; v. 269; p. 478.
- Automobile table and robe-rail, Combined. J. R. Hardman. No. 1,302,542; May 6; v. 262; p. 12.
- Automobile-tabulator. W. H. Carmichael. No. 1,309,841; July 15; v. 264; p. 404.



- Automobile tail-end light. J. R. Green. No. 1,311,345; July 29; v. 264; p. 745.
- Automobile-theft alarm. E. G. Bader. No. 1,307,802; June 24; v. 263; p. 574.
- Automobile-theft alarm. H. A. Beall. No. 1,307,575; June 24; v. 263; p. 532.
- Automobile-theft alarm. W. H. Niemeyer. No. 1,301,493; Apr. 22; v. 261; p. 717.
- Automobile-theft-detector means. T. C. Gettell. No. 1,305,352; June 3; v. 263; p. 23.
- Automobile-theft preventer. St. G. Evans and E. B. Birkenbeuel. No. 1,300,150; Apr. 8; v. 261; p. 374.
- Automobile-theft signal. A. J. Silva. No. 1,307,933; June 24; v. 263; p. 598.
- Automobile-top. B. H. Alvey. No. 1,307,073; June 17; v. 263; p. 409.
- Automobile-top. H. W. De Ruiter. No. 1,301,402; Apr. 22; v. 261; p. 700.
- Automobile-top. H. G. Grosse. No. 1,294,447; Feb. 18; v. 259; p. 411.
- Automobile-top. A. D. Hedges. No. 1,321,913; Nov. 18; v. 268; p. 408.
- Automobile-top. A. D. Hedges. No. 1,321,914; Nov. 18; v. 268; p. 408.
- Automobile-top. S. Szemanski. No. 1,301,619; Apr. 22; v. 261; p. 739.
- Automobile-top. R. J. Talbot. No. 1,298,122; Mar. 25; v. 260; p. 598.
- Automobile-top. J. Vetter. No. 1,298,836; Apr. 1; v. 261; p. 51.
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- Automobile-top back curtain. O. R. Overmyer. No. 1,291,100; Jan. 14; v. 258; p. 286.
- Automobile-top, Folding. A. Audia. No. 1,301,894; Apr. 29; v. 261; p. 825.
- Automobile-top, Folding. L. Bresin. No. 1,294,038; Feb. 11; v. 259; p. 279.
- Automobile-top frame. J. Krauss. No. 1,294,811; Feb. 18; v. 259; p. 494.
- Automobile-top frame. J. Vetter. No. 1,310,264; July 15; v. 264; p. 481.
- Automobile-top lock. H. W. McMullin. No. 1,320,333; Oct. 28; v. 267; p. 617.
- Automobile-top-raising device. E. P. Porcher. No. 1,298,387; Mar. 25; v. 260; p. 653.
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- Automobile-tops, Means for operating. H. W. McMullin. No. 1,323,537; Dec. 2; v. 269; p. 59.
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- Automobile towage system. S. O. Edmonds. No. 1,296,781; Mar. 11; v. 260; p. 253.
- Automobile-trackway. C. L. Seyler. No. 1,326,109; Dec. 23; v. 269; p. 665.
- Automobile, Traction attachment for. J. Rutkus. No. 1,316,063; Sept. 16; v. 266; p. 314.
- Automobile traction device. C. Ahlswede. No. 1,317,673; Oct. 7; v. 267; p. 3.
- Automobile traction mechanism. F. H. Farmer. No. 1,305,452; June 3; v. 263; p. 42.
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- Automobile-turning device. J. Kolesar. No. 1,303,805; May 13; v. 262; p. 275.
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- Ax-bit, Removable. M. S. Stewart. No. 1,292,531; Jan. 28; v. 258; p. 680.
- Ax-handle guard. H. N. Tyson. No. 1,310,312; July 15; v. 264; p. 489.
- Axle. H. B. Fay. No. 1,318,856; Oct. 14; v. 267; p. 289.
- Axle. G. E. Thomas. No. 1,292,663; Jan. 28; v. 258; p. 712.
- Axle. T. Zimmerman. No. 1,321,874; Nov. 18; v. 268; p. 401.
- Axle-bearing. J. D. Cite. No. 1,290,511; Jan. 7; v. 258; p. 120.
- Axle-bearing. C. W. Starker. No. 1,300,507; Apr. 15; v. 261; p. 477.
- Axle-bending device. B. W. Decatur. No. 1,297,804; Mar. 18; v. 260; p. 505.
- Axle-bracing fixture. P. H. Seery. No. 1,322,063; Nov. 18; v. 268; p. 435.
- Axle-bracing fixture. P. H. Seery. No. 1,322,064; Nov. 18; v. 268; p. 435.
- Axle construction, Front-. A. P. Brush. (Reissue.) No. 1,475; Nov. 11; v. 268; p. 336.
- Axle, Drive-. E. E. Wemp. No. 1,292,185; Jan. 21; v. 258; p. 576.
- Axle, Driving-. M. Haupt. No. 1,316,232; Sept. 16; v. 266; p. 345.
- Axle-fastening. H. J. Heider. No. 1,292,771; Jan. 28; v. 258; p. 737.
- Axle, Flexible. C. I. Jackson. No. 1,309,944; July 15; v. 264; p. 424.
- Axle-housing construction. D. C. Goff. No. 1,302,151; Apr. 29; v. 261; p. 873.
- Axle housing, Rear-. J. G. Simpelaar. No. 1,295,221; Feb. 25; v. 259; p. 611.
- Axle-housings, Device for straightening bent or irregular. D. Camp. No. 1,314,945; Sept. 2; v. 266; p. 86.
- Axle, Internal-drive rear. F. H. Farmer. No. 1,305,454; June 3; v. 263; p. 43.
- Axle, Lubricating-. A. C. Atkin. No. 1,294,221; Feb. 11; v. 259; p. 323.
- Axle, Motor-vehicle. R. J. Burrows. No. 1,291,761; Jan. 21; v. 258; p. 471.
- Axle-straightening device. A. B. Tallman. No. 1,319,434; Oct. 21; v. 267; p. 425.
- Axle-stretching machine. S. F. Borkey. No. 1,299,292; Apr. 1; v. 261; p. 154.
- Axle, Vehicle-. T. R. McKnight. No. 1,306,115; June 10; v. 263; p. 197.
- Axles, Lateral-thrust bearing for railway-. J. L. Mohun and H. R. Stafford. No. 1,306,387; June 10; v. 263; p. 250.
- Azo dyestuffs dyeing on mordants and making same. C. Jagerspacher. No. 1,323,285; Dec. 2; v. 269; p. 12.
- Babbittin-mandrel. J. M. Mark. No. 1,299,981; Apr. 8; v. 261; p. 337.
- Baby and commode chair, Combination. O. D. Westcott. No. 1,325,270; Dec. 16; v. 269; p. 492.
- Baby-buggy. C. M. Farrer. No. 1,302,343; Apr. 29; v. 261; p. 909.
- Baby-carriage. F. Peterson and D. R. Collier. No. 1,297,006; Mar. 11; v. 260; p. 306.
- Baby carriage and sleigh, Convertible. S. Pearson. No. 1,302,426; Apr. 29; v. 261; p. 926.
- Baby-carriage spring-seat. G. A. Johnson. No. 1,326,737; Dec. 30; v. 269; p. 820.
- Baby-chair. L. Haussinger. No. 1,295,984; Mar. 4; v. 260; p. 37.
- Baby-comforter. M. Wilson. No. 1,298,616; Mar. 25; v. 260; p. 703.
- Baby-harness, Safety. S. L. Kennedy. No. 1,316,163; Sept. 16; v. 266; p. 332.
- Baby-walker. H. L. Cranford. No. 1,297,800; Mar. 18; v. 260; p. 504.
- Baby-walker. R. Noel, Sr. No. 1,294,300; Feb. 11; v. 259; p. 340.
- Baby walker and swing. A. Wesley. No. 1,302,743; May 6; v. 262; p. 49.
- Baby walking-chair. S. Daniel. No. 1,302,321; Apr. 29; v. 261; p. 905.
- Baby walking device. A. Oshana. No. 1,300,292; Apr. 15; v. 261; p. 431.
- Baby's safety-strap. A. M. Dunning. No. 1,326,716; Dec. 30; v. 269; p. 815.
- Back-rest. R. Claus. No. 1,322,292; Nov. 18; v. 268; p. 478.
- Back-rest. C. and W. Gerstenmaier. No. 1,309,725; July 15; v. 264; p. 383.
- Back-rest. E. G. Lindblom. No. 1,308,500; July 1; v. 264; p. 90.
- Back-rest, Adjustable. H. E. Butler. No. 1,297,088; Mar. 11; v. 260; p. 323.
- Back-rest and table, Combined. J. V. Grolle. No. 1,302,155; Apr. 29; v. 261; p. 873.
- Back-rest, Collapsible. H. R. Barrett. No. 1,312,774; Aug. 12; v. 265; p. 205.
- Back-stop. P. S. Medart. No. 1,309,806; July 15; v. 264; p. 398.
- Backfiring, Device for preventing. L. Kessler. No. 1,292,613; Jan. 28; v. 258; p. 701.
- Background-carrier. H. S. Klein. No. 1,299,481; Apr. 8; v. 261; p. 225.
- Backgrounds, Rendering objects less visible against. W. A. Mackay. No. 1,305,296; June 3; v. 263; p. 13.
- Bad or thin place detector. T. Carter. No. 1,325,350; Dec. 16; v. 269; p. 507.
- Badge-holder. C. M. Deason. No. 1,295,280; Feb. 25; v. 259; p. 625.
- Badge, Metallic. C. F. Gaunt. No. 1,323,977; Dec. 2; v. 269; p. 142.
- Baffle-retaining form. E. McLean. No. 1,319,528; Oct. 21; v. 267; p. 443.
- Bag: See—
- Aeroplane and gas-bag.
  - Carrying and drag bag.
  - Coal-bag.
  - Comfort-bag.
  - Feed-bag.
  - Game-carrying bag.
  - Garment-bag.
  - Hand-bag.
  - Hot-water bag.
  - Ice-bag.
  - Laundry-bag.
  - Leather bag.
  - Mold and fluid bag.
  - Nose-bag.
  - Paper bag.
  - Powder-bag.
  - School-bag.
  - Shipping-bag.
  - Sleeping-bag.
  - Tool-bag.
  - Vanity-bag.
- Bag. A. F. Dunae. No. 1,291,797; Jan. 21; v. 258; p. 479.
- Bag. B. G. Allinger. No. 1,324,533; Dec. 9; v. 269; p. 293.
- Bag. W. H. Deubener. No. 1,305,198; May 27; v. 262; p. 614.
- Bag. W. H. Deubener. No. 1,305,199; May 27; v. 262; p. 614.
- Bag and closure therefor. S. Rozene. No. 1,318,411; Oct. 14; v. 267; p. 204.
- Bag-closing machine. J. E. Miller. No. 1,321,232; Nov. 11; v. 268; p. 228.
- Bag-closure. P. E. Crews. No. 1,318,974; Oct. 14; v. 267; p. 312.
- Bag-fastener. B. F. Hubbell. No. 1,324,155; Dec. 9; v. 269; p. 219.
- Bag-fastener. C. E. Bradshaw. No. 1,324,188; Dec. 9; v. 269; p. 226.
- Bag-fastener. E. A. Mallory. No. 1,318,893; Oct. 14; v. 267; p. 297.
- Bag-fastener. J. W. Kaufmann. No. 1,301,452; Apr. 22; v. 261; p. 709.
- Bag-frame fastener. J. Hammesfahr. No. 1,293,418; Feb. 4; v. 259; p. 104.
- Bag-frame fastener. J. S. Isidor. No. 1,324,901; Dec. 16; v. 269; p. 423.
- Bag-frame lock. F. J. Lau. No. 1,324,162; Dec. 9; v. 269; p. 221.
- Bag-holder. A. J. Farnsworth and E. M. St. Claire. No. 1,307,439; June 24; v. 263; p. 508.
- Bag-holder. F. F. Suter. No. 1,290,405; Jan. 7; v. 258; p. 94.
- Bag-holder. W. Zavitz. No. 1,292,213; Jan. 21; v. 258; p. 583.
- Bag-holding means. N. E. Bunting. No. 1,294,764; Feb. 18; v. 259; p. 484.
- Bag-holder, Portable. J. W. White. No. 1,293,277; Feb. 4; v. 259; p. 70.
- Bag-holder. J. R. Hyer. No. 1,322,445; Nov. 18; v. 268; p. 508.
- Bag-locking device. J. M. Albedia. No. 1,295,834; Mar. 4; v. 260; p. 3.
- Bag-mouthpiece. J. T. H. Paterson. No. 1,320,646; Nov. 4; v. 268; p. 53.
- Bag or sack. C. McNeil. No. 1,291,974; Jan. 21; v. 258; p. 525.
- Bag or sack, Collapsible. H. P. Beers. No. 1,303,757; May 13; v. 262; p. 267.
- Bag-rack. A. A. Carlson. No. 1,313,257; Aug. 19; v. 265; p. 316.
- Bag removable tray, Traveler's-. I. Shrum. No. 1,291,201; Jan. 14; v. 258; p. 308.
- Bag-securing device. R. A. Teel. No. 1,318,933; Oct. 14; v. 267; p. 304.
- Bag-sewing apparatus, Filled-. D. S. Seymour. No. 1,303,121; May 6; v. 262; p. 123.
- Bag-support. G. W. Banister. No. 1,294,753; Feb. 18; v. 259; p. 481.



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- Bag-turning machine. L. C. Coulter. No. 1,301,393; Apr. 22; v. 261; p. 699.
- Bag-turning machine. M. Anderson. No. 1,320,961; Nov. 4; v. 268; p. 114.
- Bag-turning machine. P. J. Gagnon, Jr. No. 1,308,944; July 8; v. 264; p. 200.
- Bags, Appliance for applying and removing garment. W. A. Shields. No. 1,304,913; May 27; v. 262; p. 560.
- Bags, &c., Handle for. H. Sadlovsky. No. 1,306,778; June 17; v. 263; p. 354.
- Bail, Adjustable detachable. W. P. Bosserman. No. 1,294,610; Feb. 18; v. 259; p. 447.
- Bait and making same, Fish-. F. F. Noxon. No. 1,291,614; Jan. 14; v. 258; p. 405.
- Bait, Artificial. W. S. Ewert. No. 1,313,476; Aug. 19; v. 265; p. 357.
- Bait, Artificial. L. P. Mason. No. 1,293,500; Feb. 4; v. 259; p. 122.
- Bait, Artificial. H. L. Medley. No. 1,312,451; Aug. 5; v. 265; p. 113.
- Bait, Artificial. P. S. Olt. No. 1,292,865; Jan. 28; v. 258; p. 759.
- Bait, Artificial. H. S. Welles. No. 1,297,617; Mar. 18; v. 260; p. 464.
- Bait, Artificial. S. Sakaue. No. 1,296,701; Mar. 11; v. 260; p. 235.
- Bait, Artificial fish-. F. W. Dubrow. No. 1,314,052; Aug. 26; v. 265; p. 500.
- Bait, Artificial fish-. M. K. Gray. No. 1,299,703; Apr. 8; v. 261; p. 275.
- Bait, Artificial fish-. M. K. Gray. No. 1,314,868; Sept. 2; v. 266; p. 73.
- Bait, Artificial trolling. W. D. Patton. No. 1,317,890; Oct. 7; v. 267; p. 44.
- Bait-clip. S. L. Jeffords. No. 1,320,762; Nov. 4; v. 268; p. 76.
- Bait, Fish-. J. W. Dickens. No. 1,299,432; Apr. 8; v. 261; p. 213.
- Bait, Fish-. O. C. Tuttle. No. 1,302,102; Apr. 29; v. 261; p. 863.
- Bait, Fishing-. F. Ackerman. No. 1,326,821; Dec. 30; v. 269; p. 836.
- Bait, Fishing-. R. Ettershank. No. 1,303,467; May 13; v. 262; p. 213.
- Bait, Fishing-. J. S. Evans. No. 1,300,149; Apr. 8; v. 261; p. 374.
- Bait for traps, Artificial. A. Berg. No. 1,319,832; Oct. 28; v. 267; p. 524.
- Bait, Glass-. G. C. Debay. No. 1,308,278; July 1; v. 264; p. 50.
- Bait holder, Live-. G. Larson. No. 1,326,352; Dec. 30; v. 269; p. 747.
- Bait or lure, Artificial. H. S. Dills. No. 1,323,458; Dec. 2; v. 269; p. 44.
- Bake-pan. S. R. Castile. No. 1,309,062; July 8; v. 264; p. 223.
- Baker's furnace. E. Nelson. No. 1,292,017; Jan. 21; v. 258; p. 535.
- Baker's machinery. F. J. Wolff. No. 1,319,370; Oct. 21; v. 267; p. 413.
- Baker's-oven light. J. F. Hoenninger, Jr. No. 1,296,804; Mar. 11; v. 260; p. 258.
- Bakery steam-supply means. F. C. Kummerow. No. 1,293,477; Feb. 4; v. 259; p. 117.
- Baking and molding device. W. M. Roberts. No. 1,294,536; Feb. 18; v. 259; p. 430.
- Baking-iron. G. N. Smith. No. 1,292,658; Jan. 28; v. 258; p. 711.
- Baking-machine. D. Takahashi. No. 1,303,128; May 6; v. 262; p. 124.
- Baking compound. W. P. M. Grelick. No. 1,322,561; Nov. 25; v. 268; p. 581.
- Baking-pan. H. J. Haigh. No. 1,321,204; Nov. 11; v. 268; p. 223.
- Baking-pan. P. Carpenter. No. 1,304,740; May 27; v. 262; p. 528.
- Baking-pan. H. H. Davis. No. 1,307,962; June 24; v. 263; p. 604.
- Baking-pan. H. J. Haigh. No. 1,290,982; Jan. 14; v. 258; p. 258.
- Baking-pan. H. J. Haigh. No. 1,291,490; Jan. 14; v. 258; p. 376.
- Baking-pan. H. J. Haigh. No. 1,291,491; Jan. 14; v. 258; p. 376.
- Baking-pan. H. J. Haigh. No. 1,291,492; Jan. 14; v. 258; p. 376.
- Baking-pan. W. Neef. No. 1,296,423; Mar. 4; v. 260; p. 136.
- Baking-pan. J. G. Jackson. No. 1,302,661; May 6; v. 262; p. 34.
- Baking-pan. J. G. Jackson. No. 1,302,662; May 6; v. 262; p. 34.
- Baking-pan. J. G. Jackson. No. 1,302,663; May 6; v. 262; p. 34.
- Baking-pan. J. G. Jackson. No. 1,302,664; May 6; v. 262; p. 34.
- Baking-pan. H. E. Tripp. No. 1,308,821; July 8; v. 264; p. 177.
- Balance, Method of and apparatus for obtaining dynamic. N. W. Akimoff. No. 1,296,605; Mar. 11; v. 260; p. 213.
- Balancing appliance. N. W. Akimoff. No. 1,296,732; Mar. 11; v. 260; p. 242.
- Balancing appliance. N. W. Akimoff. No. 1,313,039; Aug. 12; v. 265; p. 257.
- Balancing appliance. C. E. Myers. No. 1,305,150; May 27; v. 262; p. 604.
- Balancing-machine. N. W. Akimoff. No. 1,296,610; Mar. 11; v. 260; p. 214.
- Balancing-machine, Dynamic. N. W. Akimoff. No. 1,296,606; Mar. 11; v. 260; p. 213.
- Balancing-machine, Dynamic. N. W. Akimoff. No. 1,296,607; Mar. 11; v. 260; p. 213.
- Balancing-machine, Dynamic. N. W. Akimoff. No. 1,296,608; Mar. 11; v. 260; p. 214.
- Balancing-machine, Static. N. W. Akimoff. No. 1,296,609; Mar. 11; v. 260; p. 214.
- Balance, Self-calculating. P. E. Perman. No. 1,321,845; Nov. 18; v. 268; p. 395.
- Balance with counter, Hydrostatic. X. Robert. No. 1,317,104; Sept. 23; v. 266; p. 558.
- Balancing device. W. M. Davidson. No. 1,314,575; Sept. 2; v. 266; p. 19.
- Balancing-stand. G. H. Ekstrom. No. 1,292,280; Jan. 21; v. 258; p. 599.
- Balances, Mechanical pan-extractor for. W. Heusser. No. 1,316,890; Sept. 23; v. 266; p. 517.
- Bale-band tightener. G. M. Williams. No. 1,324,090; Dec. 9; v. 269; p. 207.
- Bale-forming compress, Automatic. A. T. Dudley. No. 1,305,344; June 3; v. 263; p. 22.
- Bale-tie welder, Electrical. L. B. Wygant. No. 1,294,590; Feb. 18; v. 259; p. 443.
- Bale-tie welder, Electrical. L. B. Wygant. No. 1,309,168; July 8; v. 264; p. 243.
- Baler. H. H. Rodgers. No. 1,293,201; Feb. 4; v. 259; p. 52.
- Baler, Sack-. A. V. Rowe and G. W. Ericson. No. 1,301,504; Apr. 22; v. 261; p. 719.
- Bales, Apparatus for making cylindrical cotton-. J. A. Taft. No. 1,316,202; Sept. 16; v. 266; p. 340.
- Bales, Patch for cotton-. R. B. Louis. No. 1,290,605; Jan. 7; v. 258; p. 143.
- Baling. E. H. Angier. No. 1,311,367; July 29; v. 264; p. 749.
- Baling-press. H. C. Clay. No. 1,308,397; July 1; v. 264; p. 71.
- Baling-press. S. J. Coatney. No. 1,301,039; Apr. 15; v. 261; p. 591.
- Baling-press. J. Hubler. No. 1,315,960; Sept. 16; v. 266; p. 295.
- Baling-press. L. R. Lowther. No. 1,319,596; Oct. 21; v. 267; p. 456.
- Baling-press. E. T. Marsh. No. 1,296,830; Mar. 11; v. 260; p. 264.
- Baling-press. J. H. Pearson. No. 1,321,548; Nov. 11; v. 268; p. 288.
- Baling-press. H. I. Roberts. No. 1,318,110; Oct. 7; v. 267; p. 85.
- Baling-press. J. A. Sharp. No. 1,308,645; July 1; v. 264; p. 117.
- Baling-press. J. T. Smith. No. 1,302,723; May 6; v. 262; p. 46.
- Baling-press, Hand-operated. A. O. Harris. No. 1,321,036; Nov. 4; v. 268; p. 128.
- Baling tank or bucket. A. M. Nicholas. No. 1,309,652; July 15; v. 264; p. 370.
- Ball. *See*—
- Hand-ball. Playing-ball.
- Incendiary ball. Tea-ball.
- Ball-and-socket joint. A. T. Dawson and G. T. Buckham. No. 1,304,270; May 20; v. 262; p. 399.
- Ball-bearing caster. I. Weston. No. 1,311,477; July 29; v. 264; p. 770.
- Ball-bearing universal joint. J. L. Ware. No. 1,317,842; Oct. 7; v. 267; p. 35.
- Ball-cage for roller-bearings. C. S. Lockwood. No. 1,297,579; Mar. 18; v. 260; p. 456.
- Ball-cock. A. R. Gilmore. No. 1,320,132; Oct. 28; v. 267; p. 579.
- Ball-cock, known as float-valve. D. E. Gulick. No. 1,302,538; May 6; v. 262; p. 11.
- Ball game, Indoor-base. W. L. De Haven. No. 1,320,606; Nov. 4; v. 268; p. 46.
- Ball goal, Basket-. F. Albach. No. 1,308,831; July 8; v. 264; p. 179.
- Ball-mill. J. R. Ball. No. 1,307,951; June 24; v. 263; p. 602.
- Ball-mill, Centralized. M. J. Barnett. No. 1,316,670; Sept. 23; v. 266; p. 478.
- Ball or tube mill. N. L. Hall. No. 1,315,770; Sept. 9; v. 266; p. 245.
- Ball-rack. E. Hedenskoog. No. 1,324,116; Dec. 9; v. 269; p. 212.
- Ball-rack. W. W. Peck. No. 1,299,218; Apr. 1; v. 261; p. 136.
- Ballast, Making. H. G. Butler. No. 1,294,613; Feb. 18; v. 259; p. 448.
- Ballast, Means for spreading and distributing. W. E. Rahmer. No. 1,321,771; Nov. 11; v. 268; p. 331.
- Balloon. E. R. Calthrop. No. 1,302,007; Apr. 29; v. 261; p. 846.
- Balloon. R. G. Fernandez. No. 1,305,592; June 3; v. 263; p. 70.
- Balloon, airship, and other levitating bodies. P. T. Griffith. No. 1,290,979; Jan. 14; v. 258; p. 257.
- Balloon and like fabrics, Composition for impregnating and coating. J. H. Mandelberg. No. 1,302,065; Apr. 29; v. 261; p. 857.



- Balloon and the like fabrics, Impregnation of. J. H. Mandleberg. No. 1,302,064; Apr. 29; v. 261; p. 857.
- Balloon, Dirigible. J. J. Reynolds and A. H. Jenkins. No. 1,291,687; Jan. 14; v. 258; p. 422.
- Balloon equilibrium device. J. Decowski. No. 1,304,858; May 27; v. 262; p. 550.
- Balloon, Motor-propelled. J. Henba. No. 1,294,661; Feb. 18; v. 259; p. 460.
- Balloon-stay fastener. J. R. Gammeter and J. Bourguignon. No. 1,292,596; Jan. 28; v. 258; p. 696.
- Balloon, War-. G. Lotysiewicz. No. 1,299,744; Apr. 8; v. 261; p. 285.
- Balloons, Means for signaling from captive. H. W. Nichols. No. 1,296,687; Mar. 11; v. 260; p. 232.
- Ballot-counting apparatus. R. D. Tolman. No. 1,319,255; Oct. 21; v. 267; p. 391.
- Ballot-box. T. E. McNulty. No. 1,313,101; Aug. 12; v. 265; p. 270.
- Band and other rings and parts thereof. Casting device for making. A. Wendt. No. 1,323,938; Dec. 2; v. 269; p. 135.
- Band-brake. A. G. Ahlgren. No. 1,297,531; Mar. 18; v. 260; p. 446.
- Band-brake clamp. J. P. Bond. No. 1,316,266; Sept. 16; v. 266; p. 352.
- Band cleaner, Space-. W. H. Schuyler. No. 1,304,386; May 20; v. 262; p. 422.
- Band-cutter. W. R. Schwartz. No. 1,319,971; Oct. 28; v. 267; p. 550.
- Band, Infant's. E. L. Smith. No. 1,321,134; Nov. 11; v. 268; p. 209.
- Band-puller. H. Hood. No. 1,325,942; Dec. 23; v. 269; p. 634.
- Band sawing-machine. J. J. Meyers. No. 1,302,949; May 6; v. 262; p. 89.
- Band-securing device. A. L. Ward. No. 1,299,882; Apr. 8; v. 261; p. 316.
- Band, Transmission-. F. H. Blake. No. 1,319,560; Oct. 21; v. 267; p. 449.
- Bandage. A. H. Knutson. No. 1,301,708; Apr. 22; v. 261; p. 758.
- Band-wheel. C. S. Wright. No. 1,303,445; May 13; v. 262; p. 209.
- Bandage. A. J. Marshall. No. 1,315,319; Sept. 9; v. 266; p. 165.
- Bandage, Headache-. A. C. Morris. No. 1,324,975; Dec. 16; v. 269; p. 437.
- Bandage, Suspensory. A. R. Chisholm. No. 1,320,737; Nov. 4; v. 268; p. 71.
- Bandages, Rotary cutter for plaster-of-Paris. A. K. Moering. No. 1,316,252; Sept. 16; v. 266; p. 349.
- Bands, Producing endless elastic. A. and H. J. Turner. No. 1,312,770; Aug. 12; v. 265; p. 204.
- Banding-machine. H. Y. Armstrong. No. 1,308,322; July 1; v. 264; p. 57.
- Banjo. R. R. H. McGinnis. No. 1,314,823; Sept. 2; v. 266; p. 65.
- Banjo attachment. H. W. Weymann. No. 1,312,882; Aug. 12; v. 265; p. 226.
- Banjo-resonator. B. V. Kershner. No. 1,291,548; Jan. 14; v. 258; p. 388.
- Banjo-snare. L. Isham. No. 1,291,903; Jan. 21; v. 258; p. 506.
- Banjo and similar stringed instruments. W. P. Rettberg and W. L. Lange. No. 1,312,209; Aug. 5; v. 265; p. 67.
- Bank. F. Gregorovius. No. 1,325,197; Dec. 16; v. 269; p. 479.
- Bank. J. Komorous. No. 1,294,810; Feb. 18; v. 259; p. 494.
- Bank, Contact. C. L. Goodrum. No. 1,298,330; Mar. 25; v. 260; p. 642.
- Bank, Savings-. G. W. Race and F. O. Robertson. No. 1,295,061; Feb. 18; v. 259; p. 551.
- Bank, Small. I. J. Kusel. No. 1,295,768; Feb. 25; v. 259; p. 737.
- Bank-spud. S. R. W. M. Bager. No. 1,307,574; June 24; v. 263; p. 532.
- Bank-support. M. Farrar. No. 1,305,270; June 3; v. 263; p. 8.
- Bank, Terminal. O. F. Forsberg. No. 1,298,321; Mar. 25; v. 260; p. 640.
- Bank, Transparent. S. B. Shearer. No. 1,320,421; Nov. 4; v. 268; p. 12.
- Banking. J. Barker. No. 1,315,591; Sept. 9; v. 266; p. 213.
- Banks, Locking mechanism for pocket savings-. F. A. Smith. No. 1,297,025; Mar. 11; v. 260; p. 309.
- Banners, Non-furling device for. T. W. Power. No. 1,311,712; July 29; v. 264; p. 813.
- Bar: See—
- Automobile fender-bar. Lathe rest-bar.
- Boring-bar. Locking-bar.
- Bumper-bar. Locomotive draw-bar.
- Collar-bar. Metal bar.
- Connection-bar. Mower-cutter bar.
- Corner and division bar. Radius-bar.
- Curb-bar. Serving-bar.
- Draw-bar. Sickle-bar.
- Draft-bar. Sine-bar.
- Grate-bar. Stubbing-bar.
- Harrow draft-bar. Type-bar.
- Bar for store-front constructions, Corner and division. G. C. Hester. No. 1,311,398; July 29; v. 264; p. 755.
- Bars, Apparatus for applying skill to core-. W. Strobridge. No. 1,305,675; June 3; v. 263; p. 85.
- Bars, Fastening means for beater-roll. C. P. Folsom and L. E. Halteman. No. 1,309,402; July 8; v. 264; p. 285.
- Bars, Spacer for concrete-reinforcing. G. B. Schoenthaler. No. 1,324,360; Dec. 9; v. 269; p. 259.
- Bars, Spacer for reinforcing-. G. R. Schoenthaler. No. 1,324,359; Dec. 9; v. 269; p. 259.
- Barber-chair. W. F. Koken and G. G. Anderson. No. 1,302,672; May 6; v. 262; p. 36.
- Barber-chair. A. R. Pritchard. No. 1,309,694; July 15; v. 264; p. 378.
- Barber-chairs, Rest attachment for. D. W. Efaw. No. 1,322,551; Nov. 25; v. 268; p. 579.
- Barge. E. E. F. Leparmentier. No. 1,303,689; May 13; v. 262; p. 254.
- Barge, Compound. E. E. F. Leparmentier. No. 1,303,690; May 13; v. 262; p. 254.
- Barge or lighter, Dumping. A. C. Waters. No. 1,306,322; June 10; v. 263; p. 238.
- Bark remover, Willow-. G. Walter. No. 1,310,223; July 15; v. 264; p. 473.
- Bark-removing machine. C. M. Johnson and H. L. Crouse. No. 1,294,275; Feb. 11; v. 259; p. 334.
- Bark-rossing machine. J. W. Vanderveer and W. L. Lynch. No. 1,306,869; June 17; v. 263; p. 371.
- Bark-stripping machine. W. Waern. No. 1,301,198; Apr. 22; v. 261; p. 660.
- Bark-stripping-machine feeding device. W. Waern. No. 1,301,200; Apr. 22; v. 261; p. 660.
- Bark-stripping-machine speed-changing device. W. Waern. No. 1,301,199; Apr. 22; v. 261; p. 660.
- Barking apparatus. H. Guettler. No. 1,324,193; Dec. 9; v. 269; p. 227.
- Barking apparatus. W. J. Hussey. No. 1,312,633; Aug. 12; v. 265; p. 178.
- Barium hydroxid from barium sulfid. E. A. Barnes. No. 1,316,133; Sept. 16; v. 266; p. 326.
- Barium oxid, Producing. J. B. Pierce, Jr. No. 1,305,618; June 3; v. 263; p. 75.
- Barn-door lock. F. R. Henrichsen. No. 1,307,401; June 24; v. 263; p. 501.
- Barrel. C. O. Armstrong. No. 1,317,260; Sept. 30; v. 266; p. 623.
- Barrel. I. Z. Zelma. No. 1,292,216; Jan. 21; v. 258; p. 584.
- Barrel and method of making same, Welded steel. A. Kaarbo. No. 1,313,387; Aug. 19; v. 265; p. 340.
- Barrel-closure. R. G. Irely. No. 1,320,862; Nov. 4; v. 268; p. 95.
- Barrel, Collapsible. C. Knol. No. 1,321,317; Nov. 11; v. 268; p. 245.
- Barrel-emptying apparatus. F. W. Miller. No. 1,325,796; Dec. 23; v. 269; p. 607.
- Barrel-head. S. B. Cochrane. No. 1,310,857; July 22; v. 264; p. 621.
- Barrel hoisting and tilting device. F. A. Sebring. No. 1,311,094; July 22; v. 264; p. 665.
- Barrel-holder. H. C. Hanson. No. 1,323,185; Nov. 25; v. 268; p. 690.
- Barrel, keg, or the like. R. Rowntree. No. 1,309,779; July 15; v. 264; p. 393.
- Barrel-making machine. E. W. and C. J. Robinson. No. 1,300,025; Apr. 8; v. 261; p. 346.
- Barrel, Metal. H. C. Cochrane. No. 1,325,231; Dec. 16; v. 269; p. 485.
- Barrel, Metal. F. J. Parish. No. 1,326,087; Dec. 23; v. 269; p. 661.
- Barrel, Metallic. J. H. George. No. 1,324,445; Dec. 9; v. 269; p. 276.
- Barrel, Metallic. J. H. George. No. 1,324,446; Dec. 9; v. 269; p. 276.
- Barrel, Metallic. H. W. Avery. No. 1,303,532; May 13; v. 262; p. 225.
- Barrel, Metallic. H. W. Avery. No. 1,319,747; Oct. 28; v. 267; p. 507.
- Barrel or like container, Knockdown. B. F. Sinsheimer. No. 1,292,895; Jan. 28; v. 258; p. 767.
- Barrel, Plunger-. W. F. Cummins. No. 1,323,352; Dec. 2; v. 269; p. 24.
- Barrel-press. E. A. McGlathery. No. 1,310,357; July 15; v. 264; p. 497.
- Barrel-reamer. F. O. Hoagland. No. 1,323,278; Dec. 2; v. 269; p. 10.
- Barrel-straightening mechanism. F. O. Hoagland. No. 1,323,279; Dec. 2; v. 269; p. 10.
- Barrel-protecting ring. S. A. Bennett. No. 1,303,153; May 6; v. 262; p. 129.
- Barrel-rack. E. M. Sell. No. 1,313,340; Aug. 19; v. 265; p. 331.
- Barrel-rack. J. G. Zimlich. No. 1,312,150; Aug. 5; v. 265; p. 56.
- Barrel-shells and removing hoops therefrom, Machine for cutting ends of. E. F. Beugler. No. 1,294,758; Feb. 18; v. 259; p. 482.
- Barrel-tester. D. Domenico. No. 1,297,113; Mar. 11; v. 260; p. 329.
- Barrel, Tumbling. N. Ranschoff. No. 1,297,400; Mar. 18; v. 260; p. 419.



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- Barrels and the like containers, Machine for dumping. C. D. Galloway. No. 1,305,087; May 27; v. 262; p. 593.
- Barrels, boxes, and the like, Binding and heading band for. G. W. Swift, Jr. No. 1,307,765; June 24; v. 263; p. 567.
- Barrels, Lining turpentine-. J. G. Gotty. No. 1,323,528; Dec. 2; v. 269; p. 57.
- Barrels, Machine for removing hoops from. E. F. Beugler. No. 1,315,275; Sept. 9; v. 266; p. 157.
- Barrels, Machine for setting up wire-bound. E. W. and C. J. Robinson. No. 1,294,950; Feb. 18; v. 259; p. 527.
- Barrels, Rolling-support for. R. W. Vail. No. 1,309,667; July 15; v. 264; p. 373.
- Barrier-gate. O. W. Hansen. No. 1,296,658; Mar. 11; v. 260; p. 225.
- Barrette. A. Singer. No. 1,316,981; Sept. 23; v. 266; p. 534.
- Barrow and truck, Convertible. F. R. and M. E. Nies. No. 1,319,530; Oct. 21; v. 267; p. 443.
- Bars, Apparatus for forming plastic. E. A. Fries. No. 1,293,398; Feb. 4; v. 259; p. 98.
- Base-exchanging bodies, Making. G. Rudolf. No. 1,304,206; May 20; v. 262; p. 387.
- Base-support. N. G. Perry and C. E. Hulting. No. 1,321,666; Nov. 11; v. 268; p. 311.
- Base-support for uprights. R. C. Mahon. No. 1,319,481; Oct. 21; v. 267; p. 434.
- Basic oxychlorid of zirconium and making same. W. Rosenhain and E. H. Rodd. No. 1,307,882; June 24; v. 263; p. 588.
- Basic ferric sulfate and preparing same. J. MacKaye. No. 1,316,909; Sept. 23; v. 266; p. 521.
- Basic steel, Production of refined. W. R. Walker. No. 1,309,162; July 8; v. 264; p. 241.
- Basic zirconium sulfate. W. Rosenhain and E. H. Rodd. No. 1,307,883; June 24; v. 263; p. 588.
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- Basin-protector. C. L. Van Dunker. No. 1,297,613; Mar. 18; v. 260; p. 464.
- Basins, Apparatus for cleaning out sewer catch-. J. Nisbet. No. 1,316,851; Sept. 23; v. 266; p. 510.
- Basket. J. L. Barns. No. 1,306,941; June 17; v. 263; p. 384.
- Basket. J. F. East. No. 1,310,328; July 15; v. 264; p. 492.
- Basket. J. A. Greenlee and H. Wegwart. No. 1,294,093; Feb. 11; v. 259; p. 291.
- Basket. W. B. L. G., and C. E. O'Loughlin. No. 1,311,086; July 22; v. 264; p. 664.
- Basket. G. M. Walker. No. 1,308,824; July 8; v. 264; p. 177.
- Basket and package. H. E. Brock. No. 1,323,521; Dec. 2; v. 269; p. 56.
- Basket-closure. A. J. Thompson and H. R. Bumke. No. 1,309,079; July 8; v. 264; p. 226.
- Basket, Clothes-. J. L. Barnes. No. 1,303,231; May 13; v. 262; p. 172.
- Basket, Cooking-. G. Grover. No. 1,312,075; Aug. 5; v. 265; p. 42.
- Basket, Dish-holding. A. H. Insinger. No. 1,298,725; Apr. 1; v. 261; p. 24.
- Basket, Extension waste-. A. R. Pritchard. No. 1,312,575; Aug. 12; v. 265; p. 167.
- Basket, Fish-. A. C. Powell. No. 1,302,429; Apr. 29; v. 261; p. 926.
- Basket, Foldable. D. C. Woodworth. No. 1,315,067; Sept. 2; v. 266; p. 109.
- Basket, Folding clothes-. A. W. Morgan. No. 1,310,669; July 22; v. 264; p. 587.
- Basket-handle. I. E. Loewenberg. No. 1,310,356; July 15; v. 264; p. 497.
- Basket-making machine. W. F. Barnes. No. 1,301,355; Apr. 22; v. 261; p. 692.
- Basket reinforcement. J. J. Demuth. No. 1,305,074; May 27; v. 262; p. 590.
- Basket, Shipping-. J. A. Greenlee and H. Wegwart. No. 1,294,092; Feb. 11; v. 259; p. 291.
- Basket top binding-strips, Machine for forming fruit and berry. G. Klang. No. 1,292,802; Jan. 28; v. 258; p. 744.
- Baskets, bundles, &c., Carrier for. A. M. Yeakel. No. 1,298,144; Mar. 25; v. 260; p. 603.
- Baskets, Screen for centrifugal. E. Roberts. No. 1,300,486; Apr. 15; v. 261; p. 472.
- Basting pan, Self-. J. E. Parker. No. 1,292,031; Jan. 21; v. 258; p. 538.
- Bat Ball-. J. F. Folliard. No. 1,291,464; Jan. 14; v. 258; p. 370.
- Bat, Baseball-. T. Taylor, Jr. No. 1,325,813; Dec. 23; v. 269; p. 610.
- Bath attachments, Closure for shower-. H. B. Pitcher. No. 1,316,739; Sept. 23; v. 266; p. 491.
- Bath, Constant-temperature. E. H. Ruediger. No. 1,323,105; Nov. 25; v. 268; p. 683.
- Bath-paddle. F. Radel. No. 1,291,131; Jan. 14; v. 258; p. 292.
- Bath-room fixture. A. P. Cody. No. 1,312,613; Aug. 12; v. 265; p. 175.
- Bath stall, Shower-. L. F. Elsele. No. 1,318,329; Oct. 7; v. 267; p. 128.
- Bath stall, Shower-. W. J. Kohler. No. 1,317,795; Oct. 7; v. 267; p. 25.
- Bath-tub. J. W. McAuliffe. No. 1,293,829; Feb. 11; v. 259; p. 230.
- Bath-tub attachment. M. Eppler. No. 1,301,114; Apr. 22; v. 261; p. 642.
- Bath-tub attachment. J. C. Greenberg. No. 1,290,736; Jan. 7; v. 258; p. 175.
- Bath-tub attachment. R. C. Idone. No. 1,298,215; Mar. 25; v. 260; p. 618.
- Bath-tub attachment. M. Weinberger. No. 1,297,980; Mar. 18; v. 260; p. 543.
- Bath-tub, Foldable. E. Volters. No. 1,307,942; June 24; v. 263; p. 600.
- Bath-tub heater. G. H. Voorhees. No. 1,292,168; Jan. 21; v. 258; p. 573.
- Bath-tub plumbing-fixture. M. M. Berger. No. 1,290,702; Jan. 7; v. 258; p. 167.
- Bather's appliance. E. H. Barber. No. 1,325,607; Dec. 23; v. 269; p. 571.
- Bathing appliance, Infant's. L. R. Grannis. No. 1,296,075; Mar. 4; v. 260; p. 59.
- Bathing-chair. L. Fink. No. 1,292,593; Jan. 28; v. 258; p. 696.
- Bathing apparatus, Shower-. H. W. Patrick. No. 1,318,172; Oct. 7; v. 267; p. 98.
- Bathing or washing attachment for infants. R. C. Vanderhoof. No. 1,296,238; Mar. 4; v. 260; p. 96.
- Bathing-suit holder. J. D. Farkas. No. 1,318,652; Oct. 14; v. 267; p. 250.
- Bathing-suit or life-preserver. J. M. Combs. No. 1,314,185; Aug. 26; v. 265; p. 525.
- Bathtub. E. F. Schwartz. No. 1,315,643; Sept. 9; v. 266; p. 222.
- Bathtub and heater, Portable. R. J. Roberts. No. 1,315,987; Sept. 16; v. 266; p. 300.
- Bathtub-trap, Universal. W. Langdon. No. 1,317,797; Oct. 7; v. 267; p. 26.
- Batteries, Charging system for storage. C. I. Hall. No. 1,312,980; Aug. 12; v. 265; p. 246.
- Batteries, Connector and terminal for storage. H. C. Busch. No. 1,292,247; Jan. 21; v. 258; p. 592.
- Batteries, Connection for electric. F. J. Beaumont. No. 1,309,561; July 8; v. 264; p. 315.
- Batteries, Cooling, ventilating, and rendering innocuous storage. C. H. Bedell and G. E. Edgar. No. 1,313,512; Aug. 19; v. 265; p. 363.
- Batteries, Machine for making bobbins for electric. A. Kipniss and M. P. Neumann. No. 1,321,829; Nov. 18; v. 268; p. 392.
- Batteries, Machine for making bobbins for electric. A. Kipniss and M. P. Neumann. No. 1,321,830; Nov. 18; v. 268; p. 393.
- Batteries, Negative plate for lead storage. W. Morrison. No. 1,304,192; May 20; v. 262; p. 384.
- Batteries, Separator for secondary. J. O. Luthy. No. 1,305,657; June 3; v. 263; p. 81.
- Batteries, Separator for secondary. J. O. Luthy. No. 1,305,658; June 3; v. 263; p. 82.
- Batteries, Terminal for storage. J. L. R. Lorquet. No. 1,323,077; Nov. 25; v. 268; p. 678.
- Batteries, Tool for removing connectors from. F. S. Kay. No. 1,316,485; Sept. 16; v. 266; p. 393.
- Batteries in submarines, Arrangement of electric storage. C. Sacerdoti. No. 1,293,209; Feb. 4; v. 259; p. 54.
- Battery: See—  
     Dry battery. Galvanic battery.  
     Electric battery. Primary battery.  
     Electric storage battery. Storage battery.  
     Flash-light battery.
- Battery. C. M. Angell. No. 1,298,857; Apr. 1; v. 261; p. 55.
- Battery. R. J. Crowley. No. 1,306,214; June 10; v. 263; p. 215.
- Battery. F. Garaca. No. 1,316,836; Sept. 23; v. 266; p. 507.
- Battery. H. D. Morris. No. 1,291,596; Jan. 14; v. 258; p. 400.
- Battery-adaptor. M. H. Smith. No. 1,304,214; May 20; v. 262; p. 388.
- Battery and bulb-tester, Pocket flash-light. R. E. Cole. No. 1,315,816; Sept. 9; v. 266; p. 253.
- Battery and method of and apparatus for making same. G. P. McEntire. No. 1,297,201; Mar. 11; v. 260; p. 347.
- Battery arrangement. S. B. Hess. No. 1,306,147; June 10; v. 263; p. 202.
- Battery-box, Reinforced. H. S. Hayward, Jr. No. 1,311,558; July 29; v. 264; p. 785.
- Battery-cell. H. T. Hipwell. No. 1,303,558; May 13; v. 262; p. 230.
- Battery cell, Storage-. L. J. Perry. No. 1,325,653; Dec. 23; v. 269; p. 581.
- Battery-cell tray. J. F. Monahan. No. 1,304,588; May 27; v. 262; p. 500.
- Battery-charging equipment. E. T. Foote. No. 1,319,215; Oct. 21; v. 267; p. 384.



- Battery connection, Dry-. E. Armelin. No. 1,299,813; Apr. 8; v. 261; p. 301.
- Battery connection, Storage-. A. H. Luhrman. No. 1,312,038; Aug. 5; v. 265; p. 35.
- Battery construction, Storage-. W. P. Loudon. No. 1,323,479; Dec. 2; v. 269; p. 48.
- Battery construction, Storage-. W. P. Loudon. No. 1,324,426; Dec. 9; v. 269; p. 272.
- Battery-container. I. Fertmann and H. Koretzky. No. 1,316,567; Sept. 23; v. 266; p. 458.
- Battery-container. I. Fertmann and H. Koretzky. No. 1,316,568; Sept. 23; v. 266; p. 458.
- Battery-cover connection. C. M. Angell. No. 1,319,941; Oct. 28; v. 267; p. 544.
- Battery electrode and making same, Storage-. E. J. Rueb. No. 1,291,167; Jan. 14; v. 258; p. 300.
- Battery-electrodes, Machine for making. S. L. Casella. No. 1,291,400; Jan. 14; v. 258; p. 355.
- Battery elements, &c., Means for forming. S. Sokolow and S. Polinsky. No. 1,302,237; Apr. 29; v. 261; p. 889.
- Battery elements, &c., Means for forming. S. Sokolow and S. Polinsky. No. 1,302,722; May 6; v. 262; p. 45.
- Battery filler, Automatic storage-. O. P. Liebreich. No. 1,304,894; May 27; v. 262; p. 556.
- Battery-grid. F. A. Pocock. No. 1,323,720; Dec. 2; v. 269; p. 93.
- Battery grid, Storage-. E. Handler. No. 1,293,419; Feb. 4; v. 259; p. 104.
- Battery-grid-pasting apparatus. E. G. Clements. No. 1,303,030; May 6; v. 262; p. 105.
- Battery grids, Apparatus for pasting storage-. T. Spencer. No. 1,292,117; Jan. 21; v. 258; p. 560.
- Battery-holder. C. W. McKinley. No. 1,291,049; Jan. 14; v. 258; p. 274.
- Battery-jar mold. E. J. Kroeger. No. 1,296,092; Mar. 4; v. 260; p. 63.
- Battery jars, Machine for forming storage-. T. A. Willard. No. 1,304,627; Sept. 2; v. 266; p. 29.
- Battery-mud-extracting device. S. D. Irwin. No. 1,296,961; Mar. 11; v. 260; p. 295.
- Battery plate and building, Storage-. J. M. Peterson and A. O. Retrum. No. 1,295,365; Feb. 25; v. 259; p. 644.
- Battery plate and treating same, Storage-. R. N. Chamberlain. No. 1,304,852; May 27; v. 262; p. 549.
- Battery-plate. R. B. Hall. No. 1,325,015; Dec. 16; v. 269; p. 444.
- Battery-plate envelop. C. C. Carpenter. No. 1,325,710; Dec. 23; v. 269; p. 591.
- Battery plates, Process and apparatus for treating storage-. H. M. Martin. No. 1,310,871; July 22; v. 264; p. 624.
- Battery-seal. N. D. Sturges. No. 1,325,338; Dec. 16; v. 269; p. 505.
- Battery, Secondary or storage. L. H. Flanders. No. 1,305,084; May 27; v. 262; p. 592.
- Battery separator, Storage-. T. A. Willard. No. 1,295,660; Feb. 25; v. 259; p. 714.
- Battery separators, Apparatus for applying ribs to storage-. H. L. Boyer. No. 1,297,642; Mar. 18; v. 260; p. 469.
- Battery separators, Apparatus for forming storage-. H. L. Boyer. No. 1,297,644; Mar. 18; v. 260; p. 470.
- Battery separators, Applying ribs to storage-. H. L. Boyer. No. 1,297,643; Mar. 18; v. 260; p. 470.
- Battery separators, Forming storage-. H. L. Boyer. No. 1,297,645; Mar. 18; v. 260; p. 470.
- Battery-steamer. C. Plasket. No. 1,325,861; Dec. 23; v. 269; p. 619.
- Battery-supporting device. M. R. Hutchison and C. W. Norton. No. 1,313,384; Aug. 19; v. 265; p. 339.
- Battery-terminal. S. A. Duvall. No. 1,299,149; Apr. 1; v. 261; p. 121.
- Battery-terminal. J. O. Luthy. No. 1,300,431; Apr. 15; v. 261; p. 460.
- Battery tester, Flash-light-. R. M. Schoppert. No. 1,316,393; Sept. 16; v. 266; p. 376.
- Battery tester, Sight storage-. E. Camp. No. 1,308,223; July 1; v. 264; p. 40.
- Battery-tray. M. Melia. No. 1,290,487; Jan. 7; v. 258; p. 115.
- Battery-vent. C. M. Angell. No. 1,301,993; Apr. 29; v. 261; p. 844.
- Battery vent, Storage-. T. Spencer. No. 1,325,866; Dec. 23; v. 269; p. 620.
- Batting and method of and apparatus for making same. p. 239.
- Battleship, Submarine. A. W. Cronenberg. No. 1,324,880; Dec. 16; v. 269; p. 419.
- Battle-tracer. H. C. Ford. No. 1,293,747; Feb. 11; v. 259; p. 210.
- Bayonet. S. Seniwi. No. 1,301,753; Apr. 22; v. 261; p. 767.
- Bayonet, Automatic. F. A. Kozlowski. No. 1,314,672; Sept. 2; v. 266; p. 38.
- Bayonet and gun-socket therefor. J. Sokolowski. No. 1,317,051; Sept. 23; v. 266; p. 547.
- Bayonet and wire-cutter, Combined. M. Kaczmaryk. No. 1,297,571; Mar. 18; v. 260; p. 454.
- Bayonet and wire-cutter, Combined. W. Zadorozny. No. 1,316,664; Sept. 23; v. 266; p. 476.
- Bead-anchorage. C. G. Hoover. No. 1,320,617; Nov. 4; v. 268; p. 49.
- Bead cementing and reeling machine. G. McNeill. No. 1,296,990; Mar. 11; v. 260; p. 302.
- Bead construction, Corner-. N. E. Clark. No. 1,308,889; July 8; v. 264; p. 190.
- Bead, Corner-. N. E. Clark. No. 1,308,773; July 8; v. 264; p. 168.
- Bead-cutter. J. H. Bell. No. 1,318,527; Oct. 14; v. 267; p. 227.
- Bead device, Safety. H. W. Winkler. No. 1,315,753; Sept. 9; v. 266; p. 242.
- Bead-trimming machine. E. D. Putt. No. 1,325,578; Dec. 23; v. 269; p. 566.
- Bead-wrapping apparatus. G. McNeill. No. 1,296,991; Mar. 11; v. 260; p. 302.
- Beading and flanging machine. W. Cameron. No. 1,321,885; Nov. 18; v. 268; p. 402.
- Beading-tool. F. J. Howe. No. 1,301,940; Apr. 29; v. 261; p. 834.
- Beam head, Section-. R. Thornton. No. 1,297,751; Mar. 18; v. 260; p. 495.
- Beams, girders, &c., Structural unit in the form of. R. H. Rogers. No. 1,324,982; Dec. 16; v. 269; p. 438.
- Beams, Third-point support for brake-. W. F. Cremean. No. 1,309,187; July 8; v. 264; p. 245.
- Beam-hulling machine. J. T. Huston. No. 1,325,989; Dec. 23; v. 269; p. 642.
- Beam-sorting machine. H. Fogelsonger. No. 1,309,401; July 8; v. 264; p. 285.
- Beam-sorting machine. A. A. Martus. No. 1,298,988; Apr. 1; v. 261; p. 86.
- Beam-cleaning device. H. E. Woolner. No. 1,299,278; Apr. 1; v. 261; p. 151.
- Beam-cutter. H. S. Foutz. No. 1,301,829; Apr. 29; v. 261; p. 812.
- Beam grader, String-. W. E. Urschel. No. 1,295,642; Feb. 25; v. 259; p. 709.
- Beam-saver. E. R. Griffith. No. 1,294,898; Feb. 18; v. 259; p. 515.
- Beam-vine cutter. J. Fritsche. No. 1,309,885; July 15; v. 264; p. 412.
- Beam-vine forkers, Attachment for. J. E. Cottrell. No. 1,306,139; June 10; v. 263; p. 201.
- Beans, Device for use in cutting. O. J. Tubbs. No. 1,315,056; Sept. 2; v. 266; p. 107.
- Beans, Device for windrowing. J. Murphy. No. 1,304,797; May 27; v. 262; p. 539.
- Bearing. E. F. W. Alexanderson. No. 1,315,069; Sept. 2; v. 266; p. 109.
- Bearing. A. Blackman. No. 1,305,189; May 27; v. 262; p. 612.
- Bearing. T. Douglas. No. 1,301,664; Apr. 22; v. 261; p. 749.
- Bearing. F. Hamachek. No. 1,298,697; Apr. 1; v. 261; p. 18.
- Bearing. G. H. F. Holy. No. 1,314,518; Sept. 2; v. 266; p. 8.
- Bear-trap. A. K. Homme. No. 1,295,318; Feb. 25; v. 259; p. 633.
- Bearing. G. E. Kirk. No. 1,299,579; Apr. 8; v. 261; p. 247.
- Bearing. E. J. Kuettner. No. 1,299,357; Apr. 1; v. 261; p. 168.
- Bearing. W. S. Thomson. No. 1,307,029; June 17; v. 263; p. 401.
- Bearing, Adjustable. W. Arter. No. 1,306,397; June 10; v. 263; p. 251.
- Bearing, Adjustable. M. Martindale. No. 1,319,885; Oct. 28; v. 267; p. 534.
- Bearing, Adjustable ball-. A. Bernwall and A. Pulkka. No. 1,324,026; Dec. 9; v. 269; p. 195.
- Bearing, Adjustable roller side. J. R. Mitchell. No. 1,290,286; Jan. 7; v. 258; p. 66.
- Bearing, Adjustable socket-. S. P. Hull. No. 1,326,268; Dec. 30; v. 269; p. 732.
- Bearing and dynamometer, Thrust-. H. F. Schmidt. No. 1,298,630; Mar. 25; v. 260; p. 706.
- Bearing and oiling means therefor. R. H. Rice. No. 1,313,736; Aug. 19; v. 265; p. 406.
- Bearing and separator therefor, Antifriction-. F. G. Hughes. No. 1,299,474; Apr. 8; v. 261; p. 224.
- Bearing and shim therefor, Split-. W. E. Thompson. No. 1,294,848; Feb. 18; v. 259; p. 504.
- Bearing and support therefor, Yieldable. E. M. Cruthers. No. 1,306,951; June 17; v. 263; p. 386.
- Bearing and truck-aligning device, Combined side. J. F. O'Connor. No. 1,290,319; Jan. 7; v. 258; p. 74.
- Bearing, Annular ball-. O. A. J. R. Lippert-Bruenauer. No. 1,310,423; July 22; v. 264; p. 541.
- Bearing, Antifriction-. B. M. W. Hanson. No. 1,307,493; June 24; v. 263; p. 518.
- Bearing, Antifriction-. L. Langhaar. No. 1,310,756; July 22; v. 264; p. 603.
- Bearing, Antifriction-. J. de Martino. No. 1,326,034; Dec. 23; v. 269; p. 651.
- Bearing, Antifriction-. J. F. O'Connor. No. 1,290,329; Jan. 7; v. 258; p. 76.
- Bearing, Antifriction-. J. F. O'Connor. No. 1,308,100; July 1; v. 264; p. 17.
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- Bearing, Antifriction-. J. W. Schatz. No. 1,301,752; Apr. 22; v. 261; p. 767.
- Bearing, Antifriction-. J. W. Schatz. No. 1,324,756; Dec. 9; v. 269; p. 335.
- Bearing, Antifriction-. J. W. Simmons. No. 1,294,183; Feb. 11; v. 259; p. 313.
- Bearing, Antifriction-. A. A. Weigel. No. 1,320,722; Nov. 4; v. 268; p. 67.
- Bearing, Antifriction-. A. G. Welch and A. A. Weigel. No. 1,316,124; Sept. 16; v. 266; p. 325.
- Bearing, Antifriction-. M. A. Yeakley. No. 1,293,605; Feb. 4; v. 259; p. 146.
- Bearing, Antifriction side. T. H. Alfreds. No. 1,306,875; June 17; v. 263; p. 372.
- Bearing, Antifriction side. A. W. Calvin. No. 1,320,122; Oct. 28; v. 267; p. 577.
- Bearing applicable to gravity runways or other purposes, Roller-. P. G. Donald. No. 1,300,590; Apr. 15; v. 261; p. 494.
- Bearing-assembly. E. H. Sherbondy. No. 1,310,679; July 22; v. 264; p. 588.
- Bearing, Ball-. W. J. Bauroth. No. 1,301,217; Apr. 22; v. 261; p. 664.
- Bearing, Ball-. D. F. Graham. No. 1,296,650; Mar. 11; v. 260; p. 223.
- Bearing, Ball-. T. Hegelman. No. 1,301,843; Apr. 29; v. 261; p. 815.
- Bearing, Ball-. K. O. Leon. No. 1,305,131; May 27; v. 262; p. 601.
- Bearing, Ball-. F. S. Morton. No. 1,300,450; Apr. 15; v. 261; p. 465.
- Bearing, Ball-. J. Newmann. No. 1,303,712; May 13; v. 262; p. 258.
- Bearing, Ball-. J. E. Pruyne. No. 1,319,794; Oct. 28; v. 267; p. 516.
- Bearing, Ball-. J. A. Ohlsson. No. 1,311,769; July 29; v. 264; p. 824.
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- Bearing, Ball-. W. M. Rohn. No. 1,325,113; Dec. 16; v. 269; p. 403.
- Bearing, Ball-. H. E. Tidmarsh. No. 1,296,021; Mar. 4; v. 260; p. 46.
- Bearing, Ball-. S. G. Wingquist. No. 1,307,799; June 24; v. 263; p. 573.
- Bearing, Ball-. E. H. W. Weibull. No. 1,301,527; Apr. 22; v. 261; p. 723.
- Bearing, Composite roller-. C. S. Lockwood. No. 1,304,073; May 20; v. 262; p. 362.
- Bearing device. G. Diete. No. 1,291,438; Jan. 14; v. 258; p. 364.
- Bearing device, Scale. M. D. Varney. No. 1,302,884; May 6; v. 262; p. 77.
- Bearing, Dirt-proof. J. E. Hoy and R. P. Place. No. 1,314,748; Sept. 2; v. 266; p. 51.
- Bearing element. A. G. M. Michell. No. 1,315,735; Sept. 9; v. 266; p. 239.
- Bearing, Fiber. H. E. Hoover. No. 1,325,849; Dec. 23; v. 269; p. 617.
- Bearing for axles, Automobile-chassis and yieldable and shock-absorbing. L. D. Reed. No. 1,314,982; Sept. 2; v. 266; p. 93.
- Bearing for casting-machines. D. S. Lavaud. No. 1,302,641; May 6; v. 262; p. 30.
- Bearing for electric motors and generators. C. W. Parker. No. 1,317,818; Oct. 7; v. 267; p. 30.
- Bearing for heavy rolls. J. W. Thropp. No. 1,304,220; May 20; v. 262; p. 389.
- Bearing for pulleys and like shafts. F. Berardi. No. 1,320,972; Nov. 4; v. 268; p. 116.
- Bearing for shafts, Roller-. T. Hegelman. No. 1,319,866; Oct. 28; v. 267; p. 530.
- Bearing for spindles, Ball-. J. H. Mayes. No. 1,305,144; May 27; v. 262; p. 603.
- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,300,556; Apr. 15; v. 261; p. 488.
- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,300,557; Apr. 15; v. 261; p. 488.
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- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,300,560; Apr. 15; v. 261; p. 489.
- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,324,372; Dec. 9; v. 269; p. 261.
- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,324,373; Dec. 9; v. 269; p. 262.
- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,324,374; Dec. 9; v. 269; p. 262.
- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,324,375; Dec. 9; v. 269; p. 262.
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- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,324,377; Dec. 9; v. 269; p. 262.
- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,324,378; Dec. 9; v. 269; p. 263.
- Bearing, Floating. G. M. Bicknell and H. H. C. Weed. No. 1,324,379; Dec. 9; v. 269; p. 263.
- Bearing for centrifugal extractors. W. Bartholomew. No. 1,301,356; Apr. 22; v. 261; p. 692.
- Bearing for close-corner drills, Crank-. F. A. Jimerson. No. 1,293,792; Feb. 11; v. 259; p. 221.
- Bearing for ground-working disks. W. A. Van Brunt. No. 1,301,339; Apr. 22; v. 261; p. 688.
- Bearing for revolving shafts, Non-leaking. A. P. Dron and G. W. Wilson. No. 1,295,974; Mar. 4; v. 260; p. 35.
- Bearing for scales, Jewel-. D. Jankower. No. 1,290,564; Jan. 7; v. 258; p. 133.
- Bearing for stills, Shaft-. A. D. Smith. No. 1,295,223; Feb. 25; v. 259; p. 612.
- Bearing, Gravity self-centered roller-. G. A. Johnson. No. 1,317,792; Oct. 7; v. 267; p. 25.
- Bearing, Grooved and recessed ball-. M. Mossig. No. 1,301,295; Apr. 22; v. 261; p. 679.
- Bearing, Horizontal thrust-. A. Kingsbury. No. 1,290,234; Jan. 7; v. 258; p. 53.
- Bearing-housing. C. W. Starker. No. 1,317,233; Sept. 30; v. 266; p. 618.
- Bearing, Journal-. F. E. Buxton. No. 1,313,466; Aug. 19; v. 265; p. 355.
- Bearing, Lubricating-. L. E. Rigotard. No. 1,311,247; July 29; v. 264; p. 726.
- Bearing, Neck-. S. A. Eskilson. No. 1,310,794; July 22; v. 264; p. 610.
- Bearing-oiler. R. T. Cooke. No. 1,291,417; Jan. 14; v. 258; p. 359.
- Bearing, Petrol-engine. G. E. Bradshaw. No. 1,301,094; Apr. 22; v. 261; p. 638.
- Bearing, Petrol-engine. G. E. Bradshaw. No. 1,301,370; Apr. 22; v. 261; p. 694.
- Bearing, Pin-. W. Rietz. No. 1,300,485; Apr. 15; v. 216; p. 472.
- Bearing remover, Roller-. E. B. Cantrell and G. E. Miller. No. 1,310,155; July 15; v. 264; p. 461.
- Bearing, Rocker side. G. A. Johnson. No. 1,300,405; Apr. 15; v. 261; p. 455.
- Bearing, Rocker side. G. A. Johnson. No. 1,290,213; Jan. 7; v. 258; p. 48.
- Bearing, Rocker side. J. F. O'Connor. No. 1,308,640; July 1; v. 264; p. 116.
- Bearing, Roller-. G. E. Bradshaw. No. 1,324,638; Dec. 9; v. 269; p. 313.
- Bearing, Roller-. W. D. Burns. No. 1,303,767; May 13; v. 262; p. 269.
- Bearing, Roller-. G. W. Conrow. No. 1,301,389; Apr. 22; v. 261; p. 698.
- Bearing, Roller-. S. R. Coppins. No. 1,295,855; Mar. 4; v. 260; p. 8.
- Bearing, Roller-. F. W. Gurney. No. 1,325,635; Dec. 23; v. 269; p. 577.
- Bearing, Roller-. O. W. Hart. No. 1,290,552; Jan. 7; v. 258; p. 130.
- Bearing, Roller-. O. W. Hart. No. 1,300,385; Apr. 15; v. 261; p. 451.
- Bearing, Roller-. O. W. Hart. No. 1,300,386; Apr. 15; v. 261; p. 452.
- Bearing, Roller-. G. A. Johnson. No. 1,290,215; Jan. 7; v. 258; p. 48.
- Bearing, Roller-. L. W. Lyons and J. Wills. No. 1,296,827; Mar. 11; v. 260; p. 263.
- Bearing, Roller-. E. Meier. No. 1,302,825; May 6; v. 262; p. 65.
- Bearing, Roller-. E. P. Webster. No. 1,326,239; Dec. 30; v. 269; p. 726.
- Bearing, Roller-. F. G. Wilson. No. 1,312,936; Aug. 12; v. 265; p. 237.
- Bearing, Roller side. G. A. Johnson. No. 1,290,214; Jan. 7; v. 258; p. 48.
- Bearing, Roller side. G. A. Johnson. No. 1,290,218; Jan. 7; v. 258; p. 49.
- Bearing, Rocker side. J. F. O'Connor. No. 1,290,327; Jan. 7; v. 258; p. 76.
- Bearing, Roller side. J. F. O'Connor. No. 1,290,317; Jan. 7; v. 258; p. 74.
- Bearing, Roller side. J. F. O'Connor. No. 1,290,322; Jan. 7; v. 258; p. 75.
- Bearing, Roller side. J. F. O'Connor. No. 1,290,323; Jan. 7; v. 258; p. 75.
- Bearing, Roller side. J. F. O'Connor. No. 1,290,328; Jan. 7; v. 258; p. 76.
- Bearing, Roller side. A. Stucki. No. 1,297,928; Mar. 18; v. 260; p. 532.
- Bearing, Roller side. A. Stucki. No. 1,303,986; May 20; v. 262; p. 347.
- Bearing, Rotary meter-. C. P. Mayer. No. 1,305,824; June 3; v. 263; p. 112.
- Bearing, Self-adjusting ball-. E. Delmar. No. 1,308,522; July 1; v. 264; p. 94.
- Bearing, Self-aligning. G. W. Garman. No. 1,323,626; Dec. 2; v. 269; p. 75.
- Bearing, Self-aligning. M. D. Phelan. No. 1,321,142; Nov. 11; v. 268; p. 211.
- Bearing, Self-centered antifriction-. G. A. Johnson. No. 1,317,793; Oct. 7; v. 267; p. 25.
- Bearing, Self-centering roller-. G. A. Johnson. No. 1,317,791; Oct. 7; v. 267; p. 25.
- Bearing, Self-lubricating. G. O. Smalley. No. 1,299,799; Apr. 8; v. 261; p. 298.
- Bearing, Shaft-. D. J. H. Bacon. No. 1,325,553; Dec. 23; v. 269; p. 562.



- Bearing, Shaft-. F. Barnes. No. 1,297,779; Mar. 18; v. 260; p. 501.
- Bearing, Shaft-. W. C. Sole. No. 1,292,906; Jan. 28; v. 258; p. 769.
- Bearing, Shaft-hanger. H. R. Reynolds. No. 1,326,892; Dec. 30; v. 269; p. 849.
- Bearing, Shaft-. P. H. Keck. No. 1,320,065; Oct. 28; v. 267; p. 567.
- Bearing, Shaft and axle. A. Carlborg and G. Nyman. No. 1,321,417; Nov. 11; v. 268; p. 264.
- Bearing, Shaft-. J. B. True. No. 1,303,616; May 13; v. 262; p. 241.
- Bearing, Side. W. A. Bock. No. 1,290,059; Jan. 7; v. 258; p. 11.
- Bearing, Side. W. A. and R. G. Bock. No. 1,290,058; Jan. 7; v. 258; p. 10.
- Bearing, Side. J. R. Mitchell. No. 1,290,284; Jan. 7; v. 258; p. 66.
- Bearing, Side. W. E. Wine. No. 1,298,137; Mar. 25; v. 260; p. 602.
- Bearing-sleeves from sockets, Tool for driving. W. A. Bockius. No. 1,324,790; Dec. 16; v. 269; p. 403.
- Bearing, Step-. W. Dieter. No. 1,294,633; Feb. 18; v. 259; p. 453.
- Bearing, Spindle-. F. L. Cone. No. 1,319,923; Oct. 28; v. 267; p. 541.
- Bearing structure. W. R. Wilson. No. 1,299,277; Apr. 1; v. 261; p. 151.
- Bearing structure, Thrust-. A. Winton. No. 1,320,030; Oct. 28; v. 267; p. 561.
- Bearing-support. C. L. Vanderley. No. 1,323,662; Dec. 2; v. 269; p. 82.
- Bearing-surface. F. E. Sperry. No. 1,307,564; June 24; v. 263; p. 531.
- Bearing-surfaces, Means for forming. W. H. Bunting. No. 1,318,537; Oct. 14; v. 267; p. 228.
- Bearing-surfaces, Protecting. E. J. Keith. No. 1,318,766; Oct. 14; v. 267; p. 272.
- Bearing, Thrust-. L. H. Brinkman. No. 1,320,836; Nov. 4; v. 268; p. 90.
- Bearing, Thrust-. E. A. Jacobson. No. 1,323,769; Dec. 2; v. 269; p. 102.
- Bearing, Thrust-. A. Kingsbury. No. 1,293,471; Feb. 4; v. 259; p. 115.
- Bearing, Thrust-. M. Morris. No. 1,307,509; June 24; v. 263; p. 521.
- Bearing, Thrust-. O. P. Woodburn. No. 1,297,769; Mar. 18; v. 260; p. 498.
- Bearing, Thrust or collar. B. R. Wingfield. No. 1,325,459; Dec. 16; v. 269; p. 526.
- Bearing, Turbo-compressor. E. H. Sherbondy. No. 1,310,684; July 22; v. 264; p. 589.
- Bearing, Universally-adjustable roller side. J. F. O'Connor. No. 1,290,314; Jan. 7; v. 258; p. 73.
- Bearing, Wheel-. J. C. Lamb. No. 1,324,911; Dec. 16; v. 269; p. 425.
- Bearing, Waste-packed sleeve-. J. F. Trudeau. No. 1,315,507; Aug. 19; v. 265; p. 362.
- Bearing, Wheel-. B. F. Shaffer. No. 1,295,218; Feb. 25; v. 259; p. 611.
- Bearing with regulator-collar, Roller-. C. S. Lockwood. No. 1,324,833; Dec. 16; v. 269; p. 411.
- Bearing, Yieldable. O. A. Krenke. No. 1,298,059; Mar. 25; v. 260; p. 584.
- Bearing, Trolley-wheel. M. J. McGowan. No. 1,322,252; Nov. 18; v. 268; p. 471.
- Bearing units, Forming roller-. W. E. Bock. No. 1,320,373; Nov. 4; v. 268; p. 3.
- Bearings and making same, Cup for roller-. H. H. Timken. No. 1,326,224; Dec. 30; v. 269; p. 723.
- Bearings and making same, Cup for roller-. H. H. Timken. No. 1,326,225; Dec. 30; v. 269; p. 723.
- Bearings, Ball-cage for ball-. O. H. Bursell. No. 1,305,875; June 3; v. 263; p. 122.
- Bearings, Ball-retainer for ball-. R. W. Lindhé. No. 1,294,127; Feb. 11; v. 259; p. 300.
- Bearings, Ball-retainer for ball-. C. J. Westman. No. 1,321,687; Nov. 11; v. 268; p. 314.
- Bearings, Ball-retainer for double-row radial ball-. A. G. E. Hultgren and P. S. Rydbeck. No. 1,303,479; May 13; v. 262; p. 216.
- Bearings, Dust-shield for. C. J. Westman. No. 1,302,614; May 6; v. 262; p. 25.
- Bearings, Forming. L. Olsen. No. 1,302,584; May 6; v. 262; p. 19.
- Bearings, Gaging apparatus for ball and roller. L. Rouanet. No. 1,317,459; Sept. 30; v. 266; p. 661.
- Bearings, Lubrication of thrust-. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,296,211; Mar. 4; v. 260; p. 91.
- Bearings, Machine for grooving and finishing jewel-. F. H. Chapman. No. 1,307,577; June 24; v. 263; p. 533.
- Bearings, Making conical cups for roller-. M. T. Lothrop. No. 1,326,205; Dec. 30; v. 269; p. 720.
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- Bearings, Making lined. W. Klocke. No. 1,302,564; May 6; v. 262; p. 16.
- Bearings, Manufacturing antifriction-. J. W. Schatz. No. 1,301,323; Apr. 22; v. 261; p. 685.
- Bearings, Molding device for. E. L. Page. No. 1,321,122; Nov. 11; v. 268; p. 207.
- Bearings, Repair device for loom-sword. W. M. Patterson. No. 1,324,516; Dec. 9; v. 269; p. 290.
- Bearings, Retainer for roller thrust-. E. E. Arnold. No. 1,324,769; Dec. 9; v. 269; p. 337.
- Bearings, Shield for roll-. A. Cook. No. 1,315,094; Sept. 2; v. 266; p. 114.
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- Beater or mixer. J. O. Swigert. No. 1,292,141; Jan. 21; v. 258; p. 567.
- Beater-roll. A. J. Allison. No. 1,318,949; Oct. 14; v. 267; p. 308.
- Beater-roll. A. J. Allison. No. 1,318,950; Oct. 14; v. 267; p. 308.
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- Beating and aerating process and apparatus. E. C. Becht. No. 1,309,175; July 8; v. 264; p. 243.
- Beating-engine. C. E. Beecher and J. Symons. No. 1,324,223; Dec. 9; v. 269; p. 233.
- Beating-engine. J. T. Murphy and E. J. Raney. No. 1,310,628; July 22; v. 264; p. 579.
- Beating-machine, Roll. C. P. Folsom. No. 1,297,972; Mar. 18; v. 260; p. 541.
- Beating-machine, Sanitary. R. Olleo. (Reissue.) No. 14,594; Feb. 18; v. 259; p. 559.
- Beauty-mark. L. C. Essig. No. 1,300,592; Apr. 15; v. 261; p. 495.
- Bed. T. E. Bock. No. 1,304,650; May 27; v. 262; p. 511.
- Bed. L. Borbauer. No. 1,323,229; Nov. 25; v. 268; p. 708.
- Bed. F. J. Boyd. No. 1,298,873; Apr. 1; v. 261; p. 59.
- Bed. A. E. Gosso. No. 1,325,320; Dec. 16; v. 269; p. 502.
- Bed. K. A. Mowat. No. 1,325,488; Dec. 16; v. 269; p. 532.
- Bed. A. A. Richardson. No. 1,301,973; Apr. 29; v. 261; p. 840.
- Bed, Adjustable. M. Novick. No. 1,306,614; June 10; v. 263; p. 291.
- Bed and seat, Combined. J. D. Bell. No. 1,308,030; July 1; v. 264; p. 4.
- Bed attachment. M. H. P. Droste. No. 1,291,794; Jan. 21; v. 258; p. 478.
- Bed attachment. W. H. Young. No. 1,318,429; Oct. 14; v. 267; p. 208.
- Bed attachment, Invalid-. E. B. Augustine. No. 1,292,675; Jan. 28; v. 258; p. 715.
- Bed, Auto-. H. Bennett. No. 1,321,703; Nov. 11; v. 268; p. 317.
- Bed, Automobile-. C. K. Aldrich. No. 1,291,704; Jan. 21; v. 258; p. 456.
- Bed, Automobile-. H. E. Rottmer. No. 1,292,076; Jan. 21; v. 258; p. 550.
- Bed-bottom. B. H. Jones. No. 1,317,299; Sept. 30; v. 266; p. 630.
- Bed-bottom. J. M. McClain. No. 1,321,119; Nov. 11; v. 268; p. 207.
- Bed-bottom and manufacture of the same, Spring. J. P. Leggett. No. 1,313,902; Aug. 26; v. 265; p. 470.
- Bed-bottom, Fabric. J. Cipolla. No. 1,317,000; Sept. 23; v. 266; p. 538.
- Bed, Camp-. J. H. Brewer. No. 1,305,440; June 3; v. 263; p. 40.
- Bed, Chair-. G. A. Fair. No. 1,325,630; Dec. 23; v. 269; p. 576.
- Bed, Closet-. N. Sinclair. No. 1,303,509; May 13; v. 262; p. 221.
- Bed, Collapsible. D. Balyk. No. 1,301,215; Apr. 22; v. 261; p. 663.
- Bed, Collapsible. P. Wronowski. No. 1,324,576; Dec. 9; v. 269; p. 301.
- Bed, Collapsible and foldable pneumatic. G. B. Price. No. 1,323,610; Dec. 2; v. 269; p. 72.
- Bed, Collapsible knockdown. H. J. Schulte. No. 1,319,658; Oct. 21; v. 267; p. 468.
- Bed, Collapsible spring cot-. J. W. Richards. No. 1,302,434; Apr. 29; v. 261; p. 927.
- Bed, Convertible. C. Buellbach. No. 1,318,434; Oct. 14; v. 267; p. 209.
- Bed, Couch-. J. A. Dewey. No. 1,302,774; May 6; v. 262; p. 55.
- Bed-covering and the like. P. G. Semple. No. 1,291,191; Jan. 14; v. 258; p. 306.
- Bed, Davenport-. C. B. Hall. No. 1,303,473; May 13; v. 262; p. 214.
- Bed, Davenport-. F. B. Wersel, Jr. No. 1,314,109; Aug. 26; v. 265; p. 511.
- Bed, Detachable disappearing. L. A. Brown. No. 1,290,893; Jan. 14; v. 258; p. 237.
- Bed, Disappearing. R. W. and G. W. Bostwick. No. 1,300,694; Apr. 15; v. 261; p. 516.
- Bed, Disappearing. R. W. and G. W. Bostwick. No. 1,300,695; Apr. 15; v. 261; p. 516.
- Bed, Disappearing. G. W. Teasdale. No. 1,293,978; Feb. 11; v. 259; p. 264.
- Bed, Disappearing. G. W. Teasdale. No. 1,313,760; Aug. 19; v. 265; p. 410.
- Bed, Divan-. H. F. Sowle. No. 1,295,935; Mar. 4; v. 260; p. 26.



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- Bed, Folding. E. C. Brown. No. 1,319,459; Oct. 21; v. 267; p. 430.
- Bed, Folding. G. Fischrupp. No. 1,306,756; June 17; v. 263; p. 350.
- Bed, Folding. B. F. Fowler. No. 1,303,875; May 20; v. 262; p. 326.
- Bed, Folding. C. T. Madsen. No. 1,291,054; Jan. 14; v. 258; p. 275.
- Bed, Folding. F. F. Simpson. No. 1,311,719; July 29; v. 264; p. 814.
- Bed, Folding. F. L. H. Sims. No. 1,326,295; Dec. 30; v. 269; p. 736.
- Bed, Folding. F. A. Uptegrove. No. 1,325,218; Dec. 16; v. 269; p. 482.
- Bed, Folding. G. M. Wissman. No. 1,305,857; June 3; v. 263; p. 118.
- Bed, Folding couch. B. Welss. No. 1,300,069; Apr. 8; v. 261; p. 356.
- Bed for lathes and grinding and like machines. G. W. and A. McWilliam. No. 1,293,148; Feb. 4; v. 259; p. 40.
- Bed, Forcing. W. D. Insko. No. 1,297,853; Mar. 18; v. 260; p. 515.
- Bed-frame construction. J. F. Banta. No. 1,321,183; Nov. 11; v. 268; p. 219.
- Bed-frame, Foldable. G. L. Harpham. No. 1,307,399; June 24; v. 263; p. 501.
- Bed-guard. L. L. Haas. No. 1,295,483; Feb. 25; v. 259; p. 671.
- Bed, Hospital-. D. C. Travis. No. 1,297,043; Mar. 11; v. 260; p. 313.
- Bed, Invalid-. G. Arrigoni. No. 1,296,451; Mar. 4; v. 260; p. 142.
- Bed, Invalid-. F. D. Barnes. No. 1,290,877; Jan. 14; v. 258; p. 233.
- Bed, Invalid-. W. H. Fitz Gerald. No. 1,300,364; Apr. 15; v. 261; p. 447.
- Bed, Invalid-. T. L. Foust. No. 1,291,822; Jan. 21; v. 258; p. 485.
- Bed, Invalid-. T. L. Foust. No. 1,317,694; Oct. 7; v. 267; p. 7.
- Bed, Invalid-. J. J. Henderson. No. 1,307,668; June 24; v. 263; p. 549.
- Bed-motion. E. F. Dudley. No. 1,316,146; Sept. 16; v. 266; p. 329.
- Bed or cot. F. H. Van Volkenburg. No. 1,304,419; May 20; v. 262; p. 429.
- Bed or seat, Spring. E. W. Pettersson. No. 1,312,870; Aug. 12; v. 265; p. 224.
- Bed or seat spring structure. A. Oldfield. No. 1,322,263; Nov. 18; v. 268; p. 473.
- Bed-pan. M. K. Ena. No. 1,297,813; Mar. 18; v. 260; p. 507.
- Bed, Portable folding. R. H. McCune. No. 1,303,487; May 13; v. 262; p. 217.
- Bed-rail fastener. W. P. Seng and D. F. Dyke. No. 1,316,113; Sept. 16; v. 266; p. 323.
- Bed, Sanitary folding. T. O. Armfield. No. 1,297,308; Mar. 18; v. 260; p. 401.
- Bed-seat. I. Jaklich. No. 1,305,368; June 3; v. 263; p. 26.
- Bed, Ship-. A. Ryckoff. No. 1,301,174; Apr. 22; v. 261; p. 655.
- Bed, Sofa-. H. D. Bartlett. No. 1,295,840; Mar. 4; v. 260; p. 5.
- Bed, Sofa-. H. D. Bartlett. No. 1,296,612; Mar. 11; v. 260; p. 215.
- Bed, Sofa-. J. A. Dewey. No. 1,321,606; Nov. 11; v. 268; p. 299.
- Bed, Sofa-. H. Hartung. No. 1,301,936; Apr. 29; v. 261; p. 833.
- Bed, Sofa-. C. Hultgren. No. 1,293,784; Feb. 11; v. 259; p. 219.
- Bed, Sofa-. W. L. Murphy. No. 1,305,662; June 3; v. 263; p. 82.
- Bed, Sofa-. H. M. Svebilus. No. 1,303,613; May 13; v. 262; p. 240.
- Bed-spring. L. H. Ershler and M. Hendler. No. 1,321,814; Nov. 18; v. 268; p. 389.
- Bed-spring. A. J. Kreuzkamp. No. 1,297,697; Mar. 18; v. 260; p. 482.
- Bed-spring. P. W. Kreuzkamp. No. 1,297,698; Mar. 18; v. 260; p. 482.
- Bed, Sofa-. L. C. Westphal. No. 1,299,885; Apr. 8; v. 261; p. 317.
- Bed-spring. C. D. Karr. No. 1,291,912; Jan. 21; v. 258; p. 508.
- Bed spring-counterbalance. Wall-. N. B. Douglass. No. 1,295,449; Feb. 25; v. 259; p. 664.
- Bed-spring fabric. H. O. Ersin. No. 1,294,070; Feb. 11; v. 259; p. 286.
- Bed-spring fabric. G. B. Smith. No. 1,300,664; Apr. 15; v. 261; p. 509.
- Bed-spring frame. C. R. Barker. No. 1,325,312; Dec. 16; v. 269; p. 500.
- Bed-spring hanger. J. F. Linn. No. 1,299,362; Apr. 1; v. 261; p. 169.
- Bed structure, Davenport-. H. and N. M. Freedman. No. 1,296,278; Mar. 4; v. 260; p. 105.
- Bed-supported table. W. B. Bonnifield. No. 1,308,034; July 1; v. 264; p. 5.
- Bed-table. J. Diou. No. 1,293,631; Feb. 4; v. 259; p. 153.
- Bed-table. F. J. Lewis. No. 1,301,953; Apr. 29; v. 261; p. 836.
- Bed, Telescopic. M. Stefanski. No. 1,315,170; Sept. 2; v. 266; p. 127.
- Bed-tray and dressing-table. C. Davis and C. E. Harding. No. 1,298,672; Apr. 1; v. 261; p. 11.
- Bed-warming device, Electric. J. O. Kinosita. No. 1,326,133; Dec. 23; v. 269; p. 669.
- Bed, Window-. E. J. Henry. No. 1,300,266; Apr. 15; v. 261; p. 425.
- Beds, and lounge, arm, and garden chairs, Flexible and elastic device for. J. J. P. Vigroux. No. 1,295,393; Feb. 25; v. 259; p. 651.
- Beds and the like, Means for holding covers on. J. S. Eddy. No. 1,297,551; Mar. 18; v. 260; p. 450.
- Beds, Corner-post fastener for. M. B. Okun. No. 1,310,166; July 15; v. 264; p. 463.
- Beds, Mosquito-foil for. R. H. Vance. No. 1,303,619; May 13; v. 262; p. 241.
- Beds, Patient-handling apparatus for. T. L. Foust. No. 1,312,439; Aug. 5; v. 265; p. 110.
- Bedclothes-holder. B. S. Zipin and H. Singer. No. 1,309,976; July 15; v. 264; p. 430.
- Bedclothes-retainer. H. Garner. No. 1,301,553; Apr. 22; v. 261; p. 728.
- Bedside-table. W. J. Sculthrop. No. 1,312,274; Aug. 5; v. 265; p. 78.
- Bedstead. W. A. Feckley. No. 1,301,240; Apr. 22; v. 261; p. 668.
- Bedstead. E. Hammett. No. 1,291,855; Jan. 21; v. 258; p. 493.
- Bedstead. W. J. S. Herbert. No. 1,308,674; July 1; v. 264; p. 122.
- Bedstead. A. G. Kopacki. No. 1,301,274; Apr. 22; v. 261; p. 675.
- Bedstead. J. L. Moore. No. 1,318,222; Oct. 7; v. 267; p. 108.
- Bedstead and attachment. D. C. Brownell. No. 1,311,211; July 29; v. 264; p. 720.
- Bedstead attachment. C. R. Ehoff. No. 1,292,951; Jan. 28; v. 258; p. 780.
- Bedstead attachment. C. L. French. No. 1,322,421; Nov. 18; v. 268; p. 503.
- Bedstead corner-lock. J. T. Seng. No. 1,315,341; Sept. 9; v. 266; p. 169.
- Bedstead, Extensible sectional. W. L. Durden. No. 1,319,576; Oct. 21; v. 267; p. 452.
- Bedstead-fastener. W. H. Beadle. No. 1,320,969; Nov. 4; v. 268; p. 115.
- Bedstead-joint. E. C. Adolph. No. 1,318,823; Oct. 14; v. 267; p. 283.
- Bedstead, Rigid. L. A. Brown. No. 1,316,764; Sept. 23; v. 266; p. 495.
- Bedstead, settee, and the like. T. Hilton. No. 1,312,443; Aug. 5; v. 265; p. 111.
- Bedsteads, Invalid-lifting appliance for. P. Nelson. No. 1,303,368; May 13; v. 262; p. 196.
- Be-shipping box. E. J. Atchley. No. 1,311,741; July 29; v. 264; p. 819.
- Beef-fattening table. D. E. Dufresne and W. Adamson. No. 1,314,579; Sept. 2; v. 266; p. 20.
- Beehive. W. E. Crease. No. 1,321,600; Nov. 11; v. 268; p. 298.
- Beehive-frame. W. E. Crease. No. 1,321,601; Nov. 11; v. 268; p. 298.
- Beer and other fermented beverages, Manufacture of extracts of. H. Heuser. No. 1,290,191; Jan. 7; v. 258; p. 43.
- Beer, Brewing. H. Heuser. No. 1,302,549; May 6; v. 262; p. 13.
- Beer, Making. B. F. Schirmer. No. 1,297,013; Mar. 11; v. 260; p. 307.
- Beer, Manufacture of alcohol-reduced. H. Heuser. No. 1,302,551; May 6; v. 262; p. 14.
- Beet, &c., cultivator. C. E. White. No. 1,324,187; Dec. 9; v. 269; p. 226.
- Beet and grain dump rack, Combination. F. A. Morton. No. 1,315,386; Sept. 9; v. 266; p. 177.
- Beet-cultivator. R. Sera. No. 1,303,602; May 13; v. 262; p. 238.
- Beet digging and topping machine. E. Duke. No. 1,306,586; June 10; v. 263; p. 286.
- Bell-holder. P. G. Pappas. No. 1,324,263; Dec. 9; v. 269; p. 240.
- Beet-pulling machine. C. Esping. No. 1,309,617; July 15; v. 264; p. 363.
- Beet-pulling machine. C. Esping. No. 1,323,683; Dec. 2; v. 269; p. 86.
- Beet-puller. O. Hermann. No. 1,298,708; Apr. 1; v. 261; p. 20.
- Beet-topper. J. Elles. No. 1,297,666; Mar. 18; v. 260; p. 475.
- Beet-topper. M. A. Green. No. 1,321,637; Nov. 11; v. 268; p. 324.
- Beet-topper. G. H. Smith. No. 1,301,328; Apr. 22; v. 261; p. 686.
- Bench foldable-seat attachment. A. H. Holm. No. 1,293,778; Feb. 11; v. 259; p. 218.
- Benzaldehyde, Manufacture of. A. I. Appelbaum. No. 1,302,273; Apr. 29; v. 261; p. 895.
- Benzoylation of organic amido compounds. F. Reverdin. No. 1,296,602; Mar. 4; v. 260; p. 176.



- Berry-picker. E. C. Brewer. No. 1,300,566; Apr. 15; v. 261; p. 490.
- Beverage, Non-intoxicating. P. C. Soyey. No. 1,291,219; Jan. 14; v. 258; p. 312.
- Beverage-shaker. H. Pick. No. 1,300,867; Apr. 15; v. 261; p. 553.
- Beverages, Dispensing device for carbonated. C. M. Earl. No. 1,297,333; Mar. 18; v. 260; p. 405.
- Beverages, Manufacture of liquid-condensed yeast-treated extracts from. H. Heuser. No. 1,290,192; Jan. 7; v. 258; p. 43.
- Bezel. G. Wood. No. 1,291,336; Jan. 14; v. 258; p. 339.
- Bicycle-coupling. J. A. Carswell. No. 1,300,343; Apr. 15; v. 261; p. 442.
- Bicycle-frame. W. Johnston. No. 1,298,958; Apr. 1; v. 261; p. 78.
- Bicycle-grip. E. J. A. Sommer. No. 1,295,627; Feb. 25; v. 259; p. 705.
- Bicycle-lock, Combination. S. Moffer. No. 1,291,076; Jan. 14; v. 258; p. 281.
- Bicycle-saddle. A. P. van Leuven. No. 1,290,426; Jan. 7; v. 258; p. 99.
- Bicycle side car. W. Simons. No. 1,302,476; Apr. 29; v. 261; p. 935.
- Bill or letter sheet. W. B. Fenn. No. 1,296,059; Mar. 4; v. 260; p. 56.
- Billets, Handling and rolling. C. W. Hawthorne. No. 1,292,462; Jan. 28; v. 258; p. 662.
- Billiard-cue. A. Greenfield. No. 1,296,285; Mar. 4; v. 260; p. 107.
- Billiard-cue chalk. J. Moeschl. No. 1,294,139; Feb. 11; v. 259; p. 303.
- Binder attachment, Grain-. H. Laqua. No. 1,301,717; Apr. 22; v. 261; p. 760.
- Binder, Brush-. C. Waters. No. 1,292,546; Jan. 28; v. 258; p. 684.
- Binder, Loose-leaf. F. E. Cardy. No. 1,290,907; Jan. 14; v. 258; p. 241.
- Binder, Loose-leaf. W. H. Edwards. No. 1,291,449; Jan. 14; v. 258; p. 366.
- Binder, Loose-leaf. W. H. Edwards. No. 1,299,694; Apr. 8; v. 261; p. 273.
- Beet-topper. O. Walther. No. 1,310,849; July 22; v. 264; p. 620.
- Beet topping and harvesting machine. R. Sera. No. 1,314,155; Aug. 26; v. 265; p. 519.
- Beet-topping device. M. A. Smith. No. 1,308,921; July 8; v. 264; p. 196.
- Beet-topping machine. T. M. Daniels. No. 1,306,673; June 10; v. 263; p. 302.
- Beet-topping machine. G. H. Smith. No. 1,301,329; Apr. 22; v. 261; p. 686.
- Beet-topping machine. G. H. Smith. No. 1,301,330; Apr. 22; v. 261; p. 686.
- Beets and beet-tailings, Trash-separator for. C. R. Grey. No. 1,296,383; Mar. 4; v. 260; p. 128.
- Beets, Receiving apparatus for sugar-. H. P. Robbins. No. 1,307,458; June 24; v. 263; p. 512.
- Bell-actuating means. B. K. Kirk. No. 1,300,737; Apr. 15; v. 261; p. 525.
- Bell and buzzer, Combined. W. J. Klein. No. 1,293,120; Feb. 4; v. 259; p. 34.
- Bell attachment. F. W. Lapiens. No. 1,294,122; Feb. 11; v. 259; p. 299.
- Bell, Electric. C. H. Buhl. No. 1,303,459; May 13; v. 262; p. 212.
- Bell, Electric. C. J. Schwarze. No. 1,292,523; Jan. 28; v. 258; p. 678.
- Bell-hoist. F. Hymans. No. 1,309,632; July 15; v. 264; p. 366.
- Bell mechanism, Water-tight electric-. P. C. and C. F. Butte. No. 1,290,901; Jan. 14; v. 258; p. 239.
- Bell-muffler. J. T. Berthelote. No. 1,295,261; Feb. 25; v. 259; p. 621.
- Bell-ringing apparatus. E. G. Shaffroth. No. 1,304,912; May 27; v. 262; p. 560.
- Bell, Variably pitched and actuated. P. E. Chapman and R. H. Robinson. No. 1,312,610; Aug. 12; v. 265; p. 174.
- Bells and the like, Selecting device for electric. W. E. Muntz. No. 1,294,691; Feb. 18; v. 259; p. 467.
- Belt. G. E. Carr. No. 1,303,027; May 6; v. 262; p. 104.
- Belt. E. L. Couch. No. 1,313,266; Aug. 19; v. 265; p. 318.
- Belt. W. M. Greene. No. 1,324,043; Dec. 9; v. 269; p. 198.
- Belt. F. Gilardini. No. 1,309,066; July 8; v. 264; p. 224.
- Belt. N. D. Hawkins, Jr. No. 1,297,158; Mar. 11; v. 260; p. 338.
- Belt. V. Kasmauski. No. 1,319,650; Oct. 21; v. 267; p. 467.
- Belt. W. A. Smith. No. 1,317,993; Oct. 7; v. 267; p. 63.
- Belt. A. A. Somerville. No. 1,322,067; Nov. 18; v. 268; p. 436.
- Belt. A. T. Van Alstyn. No. 1,320,811; Nov. 4; v. 268; p. 85.
- Belt and belting material. L. Heimann. No. 1,319,337; Oct. 21; v. 267; p. 406.
- Belt and fastening means therefor. E. L. Fhipps. No. 1,293,907; Feb. 11; v. 259; p. 247.
- Belt and band. L. H. Gilmer. No. 1,326,656; Dec. 30; v. 269; p. 804.
- Belt, Athletic. L. Hosea. No. 1,312,400; Aug. 5; v. 265; p. 102.
- Belt carriers, Tension device for endless-. J. Johnson. No. 1,290,222; Jan. 7; v. 258; p. 50.
- Belt-catch. S. B. Girdler. No. 1,303,652; May 13; v. 262; p. 247.
- Belt, Chain driving-. J. E. Dukelow. No. 1,313,171; Aug. 12; v. 265; p. 283.
- Belt, Continuous-cord. G. W. Lea. No. 1,321,110; Nov. 11; v. 268; p. 205.
- Belt conveyor. W. K. Page. No. 1,313,111; Aug. 12; v. 265; p. 272.
- Belt conveyor. W. L. Scott. No. 1,325,704; Dec. 23; v. 269; p. 590.
- Belt-cutter. E. L. Richard. No. 1,320,923; Nov. 4; v. 268; p. 106.
- Belt, Drive-. W. S. Smith and S. M. Crider. No. 1,313,028; Aug. 12; v. 265; p. 255.
- Belt drive, Conveyor-. C. Piez. No. 1,319,109; Oct. 21; v. 267; p. 362.
- Belt, Driving-. J. H. Saris. No. 1,312,580; Aug. 12; v. 265; p. 168.
- Belt, Driving-. H. Varden. No. 1,321,686; Nov. 11; v. 268; p. 314.
- Belt-driving connection. C. K. Salisbury. No. 1,301,507; Apr. 22; v. 261; p. 719.
- Belt-driving mechanism. J. W. Cryer and N. Mangnall. No. 1,291,426; Jan. 14; v. 258; p. 361.
- Belt, Endless. W. C. Coryell. No. 1,309,245; July 8; v. 264; p. 256.
- Belt, Fan-. N. J. Portlance. No. 1,321,330; Nov. 11; v. 268; p. 247.
- Belt-fastener. R. McNicol. No. 1,300,437; Apr. 15; v. 261; p. 462.
- Belt-fastener. C. E. Schweisgood. No. 1,313,642; Aug. 19; v. 265; p. 388.
- Belt-guide. A. R. Craddock. No. 1,313,267; Aug. 19; v. 265; p. 318.
- Belt guide and shifter. G. M. Friebe. No. 1,309,474; July 8; v. 264; p. 298.
- Belt-guide and suspender-support. J. Frye. No. 1,317,570; Sept. 30; v. 266; p. 683.
- Belt-hinge fastener and pin. J. Millar. No. 1,300,632; Apr. 15; v. 261; p. 503.
- Belt-hook. J. M. Harmony. No. 1,313,818; Aug. 19; v. 265; p. 421.
- Belt-loop and button, Combination. J. H. Otto. No. 1,315,856; Sept. 9; v. 266; p. 261.
- Belt-making machine. D. M. Wright. No. 1,297,770; Mar. 18; v. 260; p. 499.
- Belt mechanism, Tractor-. A. J. Peterson. No. 1,325,858; Dec. 23; v. 269; p. 619.
- Belt or girdle. I. L. Kane. No. 1,303,562; May 13; v. 262; p. 231.
- Belt or the like construction. A. Reznicek. No. 1,320,413; Nov. 4; v. 268; p. 11.
- Belt, Power-. J. L. Case. No. 1,300,345; Apr. 15; v. 261; p. 442.
- Belt-replacing device. J. Cohn. No. 1,318,727; Oct. 14; v. 267; p. 265.
- Belt, Self-adjusting. E. J. and J. R. Richardson. (Re-issue.) No. 14,627; Apr. 1; v. 261; p. 181.
- Belt-shifter. D. M. Brannon. No. 1,297,787; Mar. 18; v. 260; p. 502.
- Belt-shifter. F. G. Kleckler. No. 1,293,472; Feb. 4; v. 259; p. 115.
- Belt-shifter. C. E. Liebenberg. No. 1,301,464; Apr. 22; v. 261; p. 711.
- Belt-shifter, Automatic. N. E. Larson. No. 1,319,014; Oct. 14; v. 267; p. 320.
- Belt-shifting device. F. W. Siren. No. 1,311,095; July 22; v. 264; p. 665.
- Belt-shifting mechanism. T. W. Antis. No. 1,313,155; Aug. 12; v. 265; p. 281.
- Belt-shifting mechanism. W. L. Schellenbach. No. 1,310,214; July 15; v. 264; p. 472.
- Belt-shipper. O. L. Owen. No. 1,303,952; May 20; v. 262; p. 341.
- Belt-splitting device. J. A. Yabres. No. 1,307,290; June 17; v. 263; p. 448.
- Belt-stretcher. G. H. Wright. No. 1,324,575; Dec. 9; v. 269; p. 301.
- Belt stretcher and clamp. C. W. Reed. No. 1,299,227; Apr. 1; v. 261; p. 138.
- Belt-support. H. M. Chaney. No. 1,299,680; Apr. 8; v. 261; p. 270.
- Belt-support. J. Parkhill. No. 1,321,843; Nov. 18; v. 268; p. 395.
- Belt, Swimming and life-preserving. F. J. Nekarda. No. 1,315,190; Sept. 2; v. 266; p. 131.
- Belt-tightener. H. Grob. No. 1,319,066; Oct. 21; v. 267; p. 355.
- Belt-tightener. J. N. Heald and A. M. Drake. No. 1,301,937; Apr. 29; v. 261; p. 833.
- Belt-tightener. J. A. Heaney. No. 1,320,044; Oct. 28; v. 267; p. 563.
- Belt-tightener. H. E. Waltz. No. 1,293,264; Feb. 4; v. 259; p. 67.
- Belt-tightener. G. A. Yeaton. No. 1,301,026; Apr. 15; v. 261; p. 588.



## Alphabetical list of inventions—Continued.

- Belt, Traction-. A. D. Cole. No. 1,319,207; Oct. 21; v. 267; p. 382.
- Belt, Traction-. J. E. Gross. No. 1,305,280; June 3; v. 263; p. 10.
- Belt, Traction-. D. Nelson and H. C. Steele. No. 1,292,854; Jan. 28; v. 258; p. 756.
- Belt transmission, Slack take-up for. R. Rosner. No. 1,326,532; Dec. 30; v. 269; p. 782.
- Belt-trimming machine. F. D. Wilks. No. 1,316,751; Sept. 23; v. 266; p. 493.
- Belts and the like, Apparatus for measuring and simultaneously marking the measurements on machine. P. L. V. Schulstad. No. 1,309,306; July 8; v. 264; p. 268.
- Belts, Making endless. W. C. Coryell. No. 1,309,244; July 8; v. 264; p. 256.
- Belts, Means for connecting the ends of. G. W. Webb. No. 1,306,507; June 10; v. 263; p. 272.
- Belts, &c., Power-driven clutch for. F. S. Haynes. No. 1,323,362; Dec. 2; v. 269; p. 26.
- Belts, suspenders, &c., Clasp for. T. P. Wallace. No. 1,317,186; Sept. 30; v. 266; p. 609.
- Belts, Treating woven textile. L. Petersen-Hvild. No. 1,310,867; July 22; v. 264; p. 623.
- Belts, Unit for track-. E. H. Savage. No. 1,317,896; Oct. 7; v. 267; p. 45.
- Belting. J. Barton. No. 1,326,565; Dec. 30; v. 269; p. 788.
- Belting, Skirt-. M. L. Basch. No. 1,293,302; Feb. 4; v. 259; p. 77.
- Belting. H. H. Haman and W. E. Schmidt. No. 1,325,788; Dec. 23; v. 269; p. 605.
- Bench: *See*—
- |                          |                     |
|--------------------------|---------------------|
| Folding table and bench. | Repair-bench.       |
| Greenhouse-bench.        | Tube-drawing bench. |
| Piano-bench.             | Work-bench.         |
- Bench-clamp. F. R. Moore. No. 1,290,637; Jan. 7; v. 258; p. 151.
- Bench-drill. E. W. Clark. No. 1,322,543; Nov. 25; v. 268; p. 578.
- Bending and forming machine. C. J. Barry. No. 1,305,990; June 10; v. 263; p. 174.
- Bending apparatus, Tube-. T. and S. Kelly. No. 1,309,250; July 8; v. 264; p. 257.
- Bending-machine. E. J. Guental and T. B. Jenkins. No. 1,303,657; May 13; v. 262; p. 248.
- Bending-machine. J. L. Kershaw. No. 1,304,326; May 20; v. 262; p. 410.
- Bending-machine. H. F. F. Sedgwick. No. 1,306,126; June 10; v. 263; p. 199.
- Bending machine, Tube-. L. H. Brinkman. No. 1,309,238; July 8; v. 264; p. 255.
- Benzol and the like, Process and apparatus for the treatment of. M. W. Blyth and T. V. Miles. No. 1,305,870; June 3; v. 263; p. 121.
- Benzaldehyde, Production of. J. M. Weiss and C. R. Downs. No. 1,321,959; Nov. 18; v. 268; p. 416.
- Benzene, Catalytic oxidation of. J. M. Weiss and C. R. Downs. No. 1,318,633; Oct. 14; v. 267; p. 247.
- Benzene, 1-Methyl-2-amino-4-isopropyl-5-nitro. C. E. Andrews. No. 1,314,923; Sept. 2; v. 266; p. 83.
- Berry-picking device. O. Bodlak. No. 1,316,265; Sept. 16; v. 266; p. 352.
- Beverage. C. V. Browne. No. 1,310,277; July 15; v. 264; p. 483.
- Beverage-container. J. J. Edmundson. No. 1,318,547; Oct. 14; v. 267; p. 230.
- Beverage extract, Solid soluble. J. K. Lippen. No. 1,326,751; Dec. 30; v. 269; p. 825.
- Beverage-mixing device. F. Chodak. No. 1,325,190; Dec. 16; v. 269; p. 477.
- Beverage-mixing device. W. A. Hughs and J. P. Pantages. No. 1,318,152; Oct. 7; v. 267; p. 93.
- Beverages, Apparatus for making carbonated. H. Heuser. No. 1,308,587; July 1; v. 264; p. 106.
- Beverages, Manufacture of. J. Schneible. No. 1,311,251; July 29; v. 264; p. 727.
- Beverages, Manufacture of alcohol-reduced. H. Heuser. No. 1,302,552; May 6; v. 262; p. 14.
- Beverages, Manufacture of non-intoxicating hopped. H. Heuser. No. 1,302,550; May 6; v. 262; p. 13.
- Bicycle. P. H. Bublitz. No. 1,304,450; May 20; v. 262; p. 435.
- Bicycle and lamp. A. C. Cambridge. No. 1,315,088; Sept. 2; v. 266; p. 113.
- Bicycle hand-grip. J. A. Kennedy. No. 1,303,803; May 13; v. 262; p. 275.
- Bicycle, Motor-. T. Christensen. No. 1,308,022; July 1; v. 264; p. 3.
- Bicycle-race apparatus. A. Doglione. No. 1,315,098; Sept. 2; v. 266; p. 114.
- Bicycle-rim. A. C. Bailey. No. 1,311,434; July 29; v. 264; p. 762.
- Bicycle-seat cover. K. Sawasaki. No. 1,322,959; Nov. 25; v. 268; p. 655.
- Bicycles, Driving-gear casing for. S. C. Raybon. No. 1,325,206; Dec. 16; v. 269; p. 480.
- Bicycles, Explosive-engine attachment for. E. S. Caleno. No. 1,317,154; Sept. 30; v. 266; p. 604.
- Bicycles, Manufacturing front forks for. G. S. Lewis. No. 1,322,250; Nov. 18; v. 268; p. 471.
- Bicycles, Side-car attachment to motor-. J. Goulding. No. 1,303,791; May 13; v. 262; p. 273.
- Bicycles, Stretcher-carrier for. M. Rosenthal. No. 1,316,332; Sept. 16; v. 266; p. 364.
- Bill-fold. M. Freund. No. 1,310,010; July 15; v. 264; p. 435.
- Bill-holder. E. J. McKey. No. 1,326,602; Dec. 30; v. 269; p. 795.
- Billiard and pool table. T. R. Treiber and F. P. Grode. No. 1,317,768; Oct. 7; v. 267; p. 21.
- Billiard-cue. H. H. Weber, Jr. No. 1,316,548; Sept. 16; v. 266; p. 407.
- Billiard-cue-tip holder. G. Palladino. No. 1,311,707; July 29; v. 264; p. 812.
- Billiard-player, Mechanical. C. Engleman. No. 1,308,405; July 1; v. 264; p. 73.
- Billiard-table cushion-rail. E. H. Acland. No. 1,323,516; Dec. 2; v. 269; p. 55.
- Bin: *See*—
- |           |             |
|-----------|-------------|
| Coal-bin. | Potato-bin. |
| Feed-bin. |             |
- Bin. R. H. Dierkes. No. 1,317,274; Sept. 30; v. 266; p. 626.
- Bin. E. J. Walker. No. 1,318,306; Oct. 7; v. 267; p. 124.
- Binder. F. H. Crump. No. 1,303,540; May 13; v. 262; p. 227.
- Binder. R. Hanna. No. 1,326,192; Dec. 30; v. 269; p. 717.
- Binder. C. H. Kors. No. 1,314,338; Aug. 26; v. 265; p. 554.
- Binder and lining holder. L. Feigelman. No. 1,317,566; Sept. 30; v. 266; p. 682.
- Binder and making same, Clay-. H. L. Kohler. No. 1,312,853; Aug. 12; v. 265; p. 221.
- Binder device. G. P. Wigginton. No. 1,317,249; Sept. 30; v. 266; p. 621.
- Binder, Lasting-. C. F. Pym. No. 1,306,121; June 10; v. 263; p. 198.
- Binder, Loose-leaf. C. R. Hadley. No. 1,301,085; Apr. 15; v. 261; p. 602.
- Binder, Loose-leaf. W. F. Krohmer. No. 1,293,807; Feb. 11; v. 259; p. 225.
- Binder, Loose-leaf. W. S. Proudft, W. H. Edwards, and A. F. Winters. No. 1,292,046; Jan. 21; v. 258; p. 542.
- Binder, Loose-leaf. C. E. Skelton. No. 1,316,198; Sept. 16; v. 266; p. 339.
- Binder, Loose-leaf. E. E. Strawn. No. 1,292,915; Jan. 28; v. 258; p. 771.
- Binder, Staple-. J. W. Hawkins. No. 1,309,731; July 15; v. 264; p. 384.
- Binder-twine tension. G. Hammer. No. 1,290,984; Jan. 14; v. 258; p. 258.
- Binders, Device for nailing tins on. M. B. Wible. No. 1,296,146; Mar. 4; v. 260; p. 76.
- Binders, Knife attachment for kicker-arms of. A. J. Eberly. No. 1,302,644; May 6; v. 262; p. 31.
- Binders, Knotter-head for. O. S. Johnson. No. 1,316,578; Sept. 23; v. 266; p. 460.
- Binders, Machine for placing lasting-. C. F. Pym. No. 1,306,120; June 10; v. 263; p. 198.
- Binders, Means for joining metal package-. S. C. Cary. No. 1,301,102; Apr. 22; v. 261; p. 640.
- Binders, Portable stalk-guard for. J. L. Burns. No. 1,291,760; Jan. 21; v. 258; p. 470.
- Binding agent. C. Ellis. No. 1,311,216; July 29; v. 264; p. 721.
- Binding and adhesive substance, tanning agent, and the like. C. Ellis. No. 1,311,219; July 29; v. 264; p. 721.
- Binding and tying machine. C. E. Evans. No. 1,324,039; Dec. 9; v. 269; p. 198.
- Binding and tying packages, Machine for. A. J. Coon. No. 1,326,030; Dec. 23; v. 269; p. 650.
- Binding and weighting system for belt-drives. C. G. Osteman. No. 1,325,954; Dec. 23; v. 269; p. 636.
- Binding-holder. R. Bass. No. 1,291,368; Jan. 14; v. 258; p. 346.
- Binding-spreader. E. F. Kowalski. No. 1,324,197; Dec. 9; v. 269; p. 228.
- Binding-strip for seat-covers. B. Lewis. No. 1,314,408; Aug. 26; v. 265; p. 568.
- Binding-terminal. R. B. Benjamin. No. 1,321,880; Nov. 18; v. 268; p. 402.
- Bindings, Machine for wiping out. J. R. McIntire. No. 1,322,591; Nov. 25; v. 268; p. 587.
- Binoocular. J. Mihalyi. No. 1,290,279; Jan. 7; v. 258; p. 64.
- Bird decoy-holder, Dead-. H. A. Anderson. No. 1,299,896; Apr. 8; v. 261; p. 319.
- Bird-trap. W. E. Walker. No. 1,310,266; July 15; v. 264; p. 481.
- Biscuit-cutter. S. S. Patton. No. 1,297,900; Mar. 18; v. 260; p. 525.
- Biscuit-cutter. J. C. Smith. No. 1,299,802; Apr. 8; v. 261; p. 299.
- Biscuit cutting and embossing machine. T. L. Green. No. 1,292,311; Jan. 21; v. 258; p. 606.
- Biscuit-cutting machine. T. L. Green. No. 1,291,844; Jan. 21; v. 258; p. 491.
- Bismuth, Production of. E. R. Darling. No. 1,318,335; Oct. 7; v. 267; p. 129.



- Bit: *See*—  
 Animal drenching-bit.  
 Ax-bit.  
 Cross-roller bit.  
 Drill-bit.  
 Bit. G. P. Butler. No. 1,321,007; Nov. 4; v. 268; p. 123.  
 Bit. E. T. McPherson. No. 1,299,490; Apr. 8; v. 261; p. 227.  
 Bit. W. Say. No. 1,308,609; July 1; v. 264; p. 110.  
 Bit attachment. F. Swales. No. 1,291,243; Jan. 14; v. 258; p. 318.  
 Bits, Attachment for grinding thread-tool. A. H. Lenz. No. 1,304,070; May 20; v. 262; p. 362.  
 Bituminized fabric. H. Abraham. No. 1,311,941; Aug. 5; v. 265; p. 17.  
 Bituminous composition. R. Illemann. No. 1,296,083; Mar. 4; v. 260; p. 61.  
 Bituminous composition and making same. L. Kirschbraun. No. 1,302,810; May 6; v. 262; p. 62.  
 Bituminous distributor. A. Fricker. No. 1,297,136; Mar. 11; v. 260; p. 333.  
 Bituminous distributor. A. Fricker. (Reissue.) No. 14,668; June 17; v. 263; p. 455.  
 Bituminous distributors, Discharge mechanism for. A. Fricker. No. 1,325,513; Dec. 23; v. 269; p. 554.  
 Bituminous lining for surfaces exposed to corrosive action. H. Wiederhold. No. 1,305,678; June 3; v. 263; p. 85.  
 Bituminous shales, Apparatus for distilling. T. Robinson. No. 1,317,318; Sept. 30; v. 266; p. 634.  
 Blackboard. T. Mellor. No. 1,318,681; Oct. 14; v. 267; p. 256.  
 Blackboards, Parallel-ruler for. H. T. Marston. No. 1,323,081; Nov. 25; v. 268; p. 678.  
 Blacking container and applicator. H. L. Gregg. No. 1,321,738; Nov. 11; v. 268; p. 324.  
 Blacking container and dauber, Combined. W. O. Albig. No. 1,303,531; May 13; v. 262; p. 225.  
 Blacking kit, Portable. C. S. Reid. No. 1,293,925; Feb. 11; v. 259; p. 251.  
 Blacking-machine. F. M. Furber. No. 1,290,165; Jan. 7; v. 258; p. 36.  
 Blacking-machine. F. M. Furber. No. 1,311,161; July 29; v. 264; p. 711.  
 Blacking, tooth-paste, &c., Receptacle for. H. J. Brashler. No. 1,296,473; Mar. 4; v. 260; p. 146.  
 Blackleading-machine. R. R. Myers. No. 1,296,839; Mar. 11; v. 260; p. 266.  
 Blade. W. B. Flanders. No. 1,290,533; Jan. 7; v. 258; p. 126.  
 Blade-bracing and locating same. C. E. Search. No. 1,309,816; July 15; v. 264; p. 399.  
 Blade, Forage. J. T. Adams. No. 1,323,237; Dec. 2; v. 269; p. 3.  
 Blade-forming apparatus. J. Fredette. No. 1,322,005; Nov. 18; v. 268; p. 424.  
 Blade-straightening machine, Automatic. C. H. Roth. No. 1,291,658; Jan. 14; v. 258; p. 415.  
 Blades, Machine for setting turbine. G. Sullivan. No. 1,319,732; Oct. 28; v. 267; p. 504.  
 Blanching-machine. C. E. Steere. No. 1,290,396; Jan. 7; v. 258; p. 91.  
 Blank-cutting machine, Counter. L. J. Jacquemin. No. 1,315,367; Sept. 9; v. 266; p. 173.  
 Blank-feeding device. M. J. Milmo and F. B. Redington. No. 1,291,074; Jan. 14; v. 258; p. 280.  
 Blank-feeding mechanism. G. Hedstrom. No. 1,325,720; Dec. 23; v. 269; p. 593.  
 Blank-feeding mechanism. E. W. Leshner. No. 1,295,773; Feb. 25; v. 259; p. 739.  
 Blank-feeding mechanism. A. Novick. No. 1,296,690; Mar. 11; v. 260; p. 232.  
 Blank for forming ornamental objects. T. D. Anagnostopoulos. No. 1,326,162; Dec. 30; v. 269; p. 711.  
 Blank form. C. C. Abel. No. 1,299,531; Apr. 8; v. 261; p. 236.  
 Blank-forming mechanism. A. Novick. No. 1,303,371; May 13; v. 262; p. 196.  
 Blank, Mail-order-house order. J. I. Lubin. No. 1,318,163; Oct. 7; v. 267; p. 96.  
 Blank with index-keys, Combination acceptance, order, and plural check. L. W. Wood. No. 1,299,647; Apr. 8; v. 261; p. 263.  
 Blanks, Die for trimming. R. L. Wilcox. No. 1,294,990; Feb. 18; v. 259; p. 535.  
 Blanks, Die for trimming. R. L. Wilcox and T. Nolan. No. 1,294,991; Feb. 18; v. 259; p. 536.  
 Blanks, Machine for operating on irregularly-shaped. E. E. Lane. No. 1,300,627; Apr. 15; v. 261; p. 502.  
 Blanks, Machine for trimming. R. L. Wilcox and C. O. Petitjean. No. 1,294,993; Feb. 18; v. 259; p. 536.  
 Blanks, Method and die for trimming. R. L. Wilcox. No. 1,294,987; Feb. 18; v. 259; p. 535.  
 Blanks, Method and die for trimming. R. L. Wilcox. No. 1,294,988; Feb. 18; v. 259; p. 535.  
 Blanks, Method and die for trimming. R. L. Wilcox. No. 1,294,989; Feb. 18; v. 259; p. 535.  
 Blanking-press. W. Skrzynecki. No. 1,298,806; Apr. 1; v. 261; p. 44.  
 Blast apparatus, Erosive. F. G. Gasche. No. 1,317,363; Sept. 30; v. 266; p. 642.  
 Blast-furnace. C. H. Bingham. No. 1,303,155; May 6; v. 262; p. 129.  
 Blast-furnace. J. Kennedy. No. 1,303,914; May 20; v. 262; p. 333.  
 Blast-furnace. F. O. Miller. No. 1,298,761; Apr. 1; v. 261; p. 34.  
 Blast-furnace-charging apparatus. J. Kennedy. No. 1,291,019; Jan. 14; v. 258; p. 266.  
 Blast-furnace practice. H. B. Weaver and J. Gayley. No. 1,292,937; Jan. 28; v. 258; p. 776.  
 Blast-furnace top. E. G. Rust. No. 1,307,884; June 24; v. 263; p. 588.  
 Blast-furnaces, Heat-recuperating process and apparatus for. J. P. Dovel. No. 1,316,086; Sept. 16; v. 266; p. 318.  
 Blasting-cap charge. C. M. Stine. No. 1,309,552; July 8; v. 264; p. 314.  
 Bleaching. J. F. King. No. 1,321,644; Nov. 11; v. 268; p. 306.  
 Bleaching. G. Ornstein. No. 1,298,552; Mar. 25; v. 260; p. 690.  
 Bleaching. G. Ornstein. No. 1,298,553; Mar. 25; v. 260; p. 690.  
 Bleaching. G. Ornstein. No. 1,298,554; Mar. 25; v. 260; p. 690.  
 Bleaching apparatus. A. G. Hinzke. No. 1,303,315; May 13; v. 262; p. 186.  
 Bleaching composition. J. F. King. No. 1,321,643; Nov. 11; v. 268; p. 306.  
 Bleaching, Keir. G. B. Flood. No. 1,290,156; Jan. 7; v. 258; p. 35.  
 Blind and ventilator, Window. E. F. Bolte. No. 1,307,479; June 24; v. 263; p. 516.  
 Block: *See*—  
 Building-block. Lintel-block.  
 Butcher's block. Locking-block.  
 Camera-supporting block. Matrix-block.  
 Cap-cover block. Meat-block.  
 Capstan and sheave block. Musical block.  
 Corner-block. Paving block.  
 Concrete block. Sandpaper-block.  
 Culvert-block. Sewer-block.  
 Flooring-block. Structural block.  
 Forging-block. Toy block.  
 Head-block. Toy building-block.  
 Heel-block. V-block.  
 Interbearing-block. Wall-block.  
 Keel-block. Wooden paving-block.  
 Block and wall construction, Hollow. A. S. Leeper. No. 1,290,589; Jan. 7; v. 258; p. 138.  
 Block for heating walls and the like. A. Roberts. No. 1,295,796; Feb. 25; v. 259; p. 744.  
 Block-making machine. G. W. Kramer. No. 1,296,090; Mar. 4; v. 260; p. 62.  
 Block-press. W. H. Shortell. No. 1,291,659; Jan. 14; v. 258; p. 416.  
 Block-signal system, Absolute permissive. S. N. Wight. No. 1,294,736; Feb. 18; v. 259; p. 477.  
 Block-signal systems, Locomotive equipment for. G. W. Gerlach. No. 1,303,192; May 6; v. 262; p. 136.  
 Block-signal system, Automatic. W. S. Levin. No. 1,305,382; June 3; v. 263; p. 29.  
 Block-signal system, Automatic. W. S. Levin. No. 1,305,383; June 3; v. 263; p. 29.  
 Block-signal systems, Track-operated device for automatic. W. S. Levin. No. 1,305,384; June 3; v. 263; p. 29.  
 Block-signaling system, Absolute permissive. S. N. Wight. No. 1,322,665; Nov. 25; v. 268; p. 601.  
 Blocks, Apparatus for renewing chopping. A. J. Oliva and A. Scaglione. No. 1,321,240; Nov. 11; v. 268; p. 230.  
 Blocks, Machine for molding composition. E. H. Pipe. No. 1,300,645; Apr. 15; v. 261; p. 505.  
 Blocks, Manufacture of carbon. T. W. S. Hutchins. No. 1,304,053; May 20; v. 262; p. 359.  
 Blocks, Mold for manufacturing plastic. C. J. Perkins. No. 1,315,984; Sept. 16; v. 266; p. 300.  
 Blocks, Preserving roller. M. Mitchell. No. 1,315,607; Sept. 9; v. 266; p. 216.  
 Bloomerettes. J. M. Slaterry. No. 1,326,536; Dec. 30; v. 269; p. 783.  
 Blotter. S. Aoki. No. 1,320,596; Nov. 4; v. 268; p. 45.  
 Blotter. S. Hudack. No. 1,303,902; May 20; v. 262; p. 322.  
 Blotter. J. J. Sullivan. No. 1,308,688; July 1; v. 264; p. 125.  
 Blotter and ruler. O. Kling. No. 1,294,478; Feb. 18; v. 259; p. 418.  
 Blotter-holder. W. M. Rhoads. No. 1,299,614; Apr. 8; v. 261; p. 255.  
 Blotter, Wrist. H. W. Cardwell. No. 1,293,652; Feb. 4; v. 259; p. 158.  
 Blouse, Nursing. S. M. Elowsky. No. 1,290,142; Jan. 7; v. 258; p. 31.  
 Blouse. L. Schwartz and H. Zaslowsky. No. 1,316,598; Sept. 23; v. 266; p. 463.  
 Blow-off device, Automatic. F. R. Dexter. No. 1,294,061; Feb. 11; v. 259; p. 284.  
 Blow-torches and the like, Shield for. W. P. Rudkin. No. 1,302,438; Apr. 29; v. 261; p. 928.  
 Blow-out patch. L. P. Clark. No. 1,310,156; July 15; v. 264; p. 461.  
 Blower Fan. F. H. C. Coppus. No. 1,308,982; July 8; v. 264; p. 207.



## Alphabetical list of inventions—Continued.

- Blower, Fire-tube-boiler. E. C. Hafer. No. 1,301,255; Apr. 22; v. 261; p. 671.
- Blower, Glass-. E. O. Whitley and E. L. Knowlton. No. 1,309,166; July 8; v. 264; p. 242.
- Blower or pump, Rotary. O. Siemen and W. Siecke. No. 1,322,363; Nov. 18; v. 268; p. 492.
- Blower, Rotary. J. T. Needham. No. 1,315,233; Sept. 9; v. 266; p. 149.
- Blower, Rotary. J. T. Needham. No. 1,315,234; Sept. 9; v. 266; p. 149.
- Blowpipe. G. F. Naab and H. Prell. No. 1,317,038; Sept. 30; v. 266; p. 696.
- Blowpipe. R. F. Russell. No. 1,310,106; July 15; v. 264; p. 452.
- Blowpipe. G. L. Walker. No. 1,310,099; July 15; v. 264; p. 451.
- Blowpipe. G. L. Walker. No. 1,310,102; July 15; v. 264; p. 451.
- Blowpipes. Y. Tamaki. No. 1,314,914; Sept. 2; v. 266; p. 81.
- Blowpipe. G. H. Zouck. No. 1,299,530; Apr. 8; v. 261; p. 236.
- Blowpipe. G. H. Zouck. No. 1,310,100; July 15; v. 264; p. 451.
- Blowpipe. G. H. Zouck. No. 1,310,104; July 15; v. 264; p. 451.
- Blowpipe. G. H. Zouck. No. 1,310,105; July 15; v. 264; p. 452.
- Blowpipe. G. H. Zouck. No. 1,310,107; July 15; v. 264; p. 452.
- Blowpipe-burner. J. Harris. No. 1,311,815; July 29; v. 264; p. 832.
- Blowpipe, Cutting-. G. L. Walker. No. 1,310,103; July 15; v. 264; p. 451.
- Blowpipe, Cutting-. G. H. Zouck. No. 1,310,101; July 15; v. 264; p. 451.
- Blowpipe, Oxyacetylene-. O. T. Anderson. No. 1,299,535; Apr. 8; v. 261; p. 237.
- Board: See—
- |                          |                          |
|--------------------------|--------------------------|
| Bread-board.             | Plaster-board.           |
| Bulletin and sign board. | Ruling-board.            |
| Cement-fiber board.      | Score-board.             |
| Composite board.         | Shoveling-board.         |
| Controller-board.        | Sign and bulletin board. |
| Cutting-board.           | Sketch-board.            |
| Drawing-board.           | Surf-board.              |
| Drawing or sketch board. | Switchboard.             |
| Game-board.              | Table and ironing-board. |
| Golfer's number-board.   | Teeter-board.            |
| Instrument-board.        | Tracker-board.           |
| Ironing-board.           | Washboard.               |
| Panel-board.             | Weather-board.           |
| Piano sounding-board.    | White leather-board.     |
- Board-joining machines, Shifting mechanism for. G. H. Dickerson and D. Hamilton. No. 1,318,851; Oct. 14; v. 267; p. 288.
- Board, Machine for making corrugated. M. L. Twomley. No. 1,313,844; Aug. 19; v. 265; p. 426.
- Board, Machine for making plaster-. J. Schumacher. No. 1,308,723; July 1; v. 264; p. 131.
- Board or frame, Advertising. E. Mastalia. No. 1,304,080; May 20; v. 262; p. 364.
- Boards, Machine for perforating insulite. J. K. Shaw. No. 1,306,283; June 10; v. 263; p. 231.
- Boat: See—
- Lifeboat.
- Boat. C. T. C. F. Greiner and L. Jacobson. No. 1,293,758; Feb. 11; v. 259; p. 213.
- Boat. F. O. Mittag. No. 1,295,784; Feb. 25; v. 259; p. 742.
- Boat and canoe. H. L. Haskell. No. 1,298,042; Mar. 25; v. 260; p. 581.
- Boat. A. L. P. Talbot. No. 1,301,523; Apr. 22; v. 261; p. 722.
- Boat. F. O. Mittag. No. 1,307,873; June 24; v. 263; p. 587.
- Boat. P. Jasinski. No. 1,311,350; July 29; v. 264; p. 746.
- Boat. W. E. Clough. No. 1,325,275; Dec. 16; v. 269; p. 493.
- Boat-bailing means. J. Good. No. 1,304,961; May 27; v. 262; p. 569.
- Boat, Collapsible. A. E. Ford. No. 1,303,550; May 13; v. 262; p. 228.
- Boat, Collapsible. A. McNeil. No. 1,303,700; May 13; v. 262; p. 256.
- Boat construction. E. K. Failor. No. 1,304,865; May 27; v. 262; p. 551.
- Boat construction, Seamless metallic. J. Dimes. No. 1,303,046; May 6; v. 262; p. 108.
- Boat construction. A. E. Cook. No. 1,316,357; Sept. 16; v. 266; p. 369.
- Boat-cooker. H. Horikawa, K. Shibata, and T. Hiro. No. 1,292,782; Jan. 28; v. 258; p. 740.
- Boat-davit. J. R. Irwin. No. 1,304,984; May 27; v. 262; p. 573.
- Boat-davit. W. J. Wilkinson and B. Hedstrom. No. 1,303,750; May 13; v. 262; p. 265.
- Boat davits, Attachment for life-. T. H. Marten. No. 1,319,352; Oct. 21; v. 267; p. 409.
- Boat-detection apparatus, Submarine-. G. E. Elia. No. 1,321,998; Nov. 18; v. 268; p. 423.
- Boat, Flying-. T. P. Brooke. No. 1,313,252; Aug. 19; v. 265; p. 315.
- Boat, Flying-. G. H. Curtiss and W. L. Gilmore. No. 1,294,415; Feb. 18; v. 259; p. 402.
- Boat-hull. W. O. Campbell. No. 1,295,117; Feb. 25; v. 259; p. 588.
- Boat hull, Flying-. G. H. Curtiss and W. L. Gilmore. No. 1,294,414; Feb. 18; v. 259; p. 402.
- Boat-hull. L. Bazaine. No. 1,296,155; Mar. 4; v. 260; p. 79.
- Boat hull, Flying-. C. G. MacGregor. No. 1,316,908; Sept. 23; v. 266; p. 521.
- Boat-hulls, Means for killing vegetable and animal life on. M. V. Wilson. No. 1,319,550; Oct. 21; v. 267; p. 447.
- Boat, Hydroplane-. S. L. Lebbly. No. 1,312,036; Aug. 5; v. 265; p. 35.
- Boat, Hydroplane-. D. E. Bigelow. No. 1,316,762; Sept. 23; v. 266; p. 494.
- Boat, Knockdown foldable. A. Pinter. No. 1,314,899; Sept. 2; v. 266; p. 79.
- Boat launching and lowering gear. R. Beaton. No. 1,305,643; June 3; v. 263; p. 79.
- Boat-launching apparatus. J. L. Hyland. No. 1,304,310; May 20; v. 262; p. 408.
- Boat-launching apparatus. C. Peters. No. 1,310,962; July 22; v. 264; p. 640.
- Boat-launching apparatus. F. Worth. No. 1,315,895; Sept. 9; v. 266; p. 269.
- Boat-launching carriage. H. B. Hills. No. 1,311,446; July 29; v. 264; p. 764.
- Boat-launching device. W. W. H. Snell. No. 1,295,626; Feb. 25; v. 259; p. 705.
- Boat-launching tackle or gear, Ship's-. W. Bulman, F. W. Smith, and W. Jones. No. 1,313,789; Aug. 19; v. 265; p. 416.
- Boat, Life-. J. E. Allen. No. 1,299,282; Apr. 1; v. 261; p. 152.
- Boat, Life-. F. A. Graham. No. 1,302,362; Apr. 29; v. 261; p. 913.
- Boat, Life-. H. V. Hartz. No. 1,295,893; Mar. 4; v. 260; p. 17.
- Boat, Life-. S. Katko. No. 1,299,476; Apr. 8; v. 261; p. 224.
- Boat, Life-. J. Koziol. No. 1,296,668; Mar. 11; v. 260; p. 227.
- Boat, Life-. J. S. Whitaker. No. 1,300,906; Apr. 15; v. 261; p. 562.
- Boat, Life-saving. A. Bielawski. No. 1,295,681; Feb. 25; v. 259; p. 718.
- Boat, Life-saving. J. Lehosky. No. 1,298,360; Mar. 25; v. 260; p. 647.
- Boat, Life-saving. A. N. Nelsen. No. 1,321,541; Nov. 11; v. 268; p. 287.
- Boat, Life-saving. A. Zisk. No. 1,298,147; Mar. 25; v. 260; p. 603.
- Boat-lowering gear. G. Torrie. No. 1,306,645; June 10; v. 263; p. 297.
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- Boat, Motor-. G. Neuberger and L. Kramer. No. 1,293,167; Feb. 4; v. 259; p. 45.
- Boat, Multiple-propeller. W. M. Simpson. No. 1,303,508; May 13; v. 262; p. 221.
- Boat, Non-sinkable life-. J. D. Bernstein. No. 1,295,843; Mar. 4; v. 260; p. 5.
- Boat or vessel. S. Golden. No. 1,305,896; June 3; v. 263; p. 126.
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- Boat-propeller. J. Henderson. No. 1,295,315; Feb. 25; v. 259; p. 632.
- Boat-propelling device. J. Larson. No. 1,320,697; Nov. 4; v. 268; p. 63.
- Boat-propelling means. A. Nase. No. 1,302,951; May 6; v. 262; p. 90.
- Boat-propelling mechanism. P. Carnegis. No. 1,318,844; Oct. 14; v. 267; p. 287.
- Boat-propelling mechanism. W. F. Ullrich. No. 1,320,511; Nov. 4; v. 268; p. 29.
- Boat-releasing hook. Life-. I. Corser. No. 1,301,392; Apr. 22; v. 261; p. 698.
- Boat-releasing device. P. J. Clancy. No. 1,314,947; Sept. 2; v. 266; p. 86.
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- Boat, Self-propelling. B. F. Jackson. No. 1,304,318; May 20; v. 262; p. 408.
- Boat, Submarine. J. W. Anderson. No. 1,291,355; Jan. 14; v. 258; p. 343.
- Boat, Submarine. S. Lake. No. 1,308,738; July 1; v. 264; p. 134.
- Boat, Submarine. C. Regenbogen and H. Techel. No. 1,305,238; May 27; v. 262; p. 621.
- Boat, Submarine. L. Y. Spear. No. 1,315,533; Sept. 9; v. 266; p. 203.
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- Boat, Surf. A. A. Allen. No. 1,323,732; Dec. 2; v. 269; p. 95.
- Boat, Torpedo. G. E. Elia. No. 1,312,391; Aug. 5; v. 265; p. 100.
- Boat, Unsinkable life. B. Goldman. No. 1,305,354; June 3; v. 263; p. 23.
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- Boats, Apparatus for destroying submarine. G. E. Elia. No. 1,309,120; July 8; v. 264; p. 234.
- Boats, Apparatus for detecting and indicating the presence of submarine. G. E. Elia. No. 1,293,740; Feb. 11; v. 259; p. 208.
- Boats, Apparatus for detecting and indicating the presence of submarine. G. E. Elia. No. 1,308,003; June 24; v. 263; p. 611.
- Boats, Apparatus for detecting and indicating the presence of submarine. G. E. Elia. No. 1,310,563; July 22; v. 264; p. 567.
- Boats, Apparatus for detecting and indicating the presence of submarine. G. E. Elia. No. 1,320,610; Nov. 4; v. 268; p. 47.
- Boats, Apparatus for detecting and indicating the presence of submarine. G. E. Elia. No. 1,326,156; Dec. 23; v. 269; p. 673.
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- Boats, Engaging and disengaging gear for ships. J. F. O'Brien. No. 1,298,777; Apr. 1; v. 261; p. 38.
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- Boats, Spray-shield for submarine. H. E. Grieshaber. No. 1,314,059; Aug. 26; v. 265; p. 501.
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- Bobbin control. L. Lefkowitz. No. 1,302,936; May 6; v. 262; p. 87.
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- Bobbin-stripper. B. A. Peterson. No. 1,300,004; Apr. 8; v. 261; p. 342.
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- Bobbin-winding attachment. J. D. Karle. No. 1,290,225; Jan. 7; v. 258; p. 51.
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- Egg-boiler. Scotch marine boiler.
- Electric boiler. Sectional boiler.
- Electrically-heated boiler. Smokeless boiler.
- Fire-tube boiler. Spiral boiler.
- Fuel-boiler. Steam-boiler.
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- Insulated boiler. Washboiler.
- Locomotive-boiler. Water-tube boiler.
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- Boiler. G. E. and J. L. Jacobson. No. 1,326,198; Dec. 30; v. 269; p. 718.
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- Boiler. C. B. Thompson. No. 1,326,621; Dec. 30; v. 269; p. 798.
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- Boiler and furnace grate. W. M. Kingsbury and M. L. Foote. No. 1,316,725; Sept. 23; v. 266; p. 488.
- Boiler circulating device. H. Vick. No. 1,292,932; Jan. 28; v. 258; p. 775.
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- Boiler-furnace. T. J. Robinson. No. 1,306,628; June 10; v. 263; p. 294.
- Boiler-furnace, Coal-fired. G. Wilkinson. No. 1,296,247; Mar. 4; v. 260; p. 98.
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- Boiler stay-bolt. E. I. Dodds and C. Hyland. No. 1,298,305; Mar. 25; v. 260; p. 638.
- Boiler stay-bolt. J. R. Flannery and E. I. Dodds. No. 1,298,318; Mar. 25; v. 260; p. 640.
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- Boiler stay-bolt. H. A. Lacerda. No. 1,304,890; May 27; v. 262; p. 555.
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 Boilers, Superheater construction for. J. H. Hinman. No. 1,304,480; May 20; v. 262; p. 441.  
 Boilers, Superheater for marine, fire, or smoke tube. J. Eggers. No. 1,296,055; Mar. 4; v. 260; p. 54.  
 Boilers, Tube-cleaner for. J. Kissick, Jr., and C. De Ved. No. 1,318,294; Oct. 7; v. 267; p. 121.  
 Boilers, Water-column for. A. N. Miller and D. W. Frackelton. No. 1,322,598; Nov. 25; v. 268; p. 588.  
 Bolt-breaking and cotton-separating machine. J. E. Mitchell. No. 1,322,927; Nov. 25; v. 268; p. 649.  
 Bolt-weevil catcher. O. Van Riper. No. 1,309,556; July 8; v. 264; p. 314.  
 Bolt-weevil destroyer. J. F. Cook. No. 1,323,016; Nov. 25; v. 268; p. 667.  
 Bolt-weevil destroyer. J. W. Ray. No. 1,305,493; June 3; v. 263; p. 50.  
 Bolt-weevil, Insecticide or compound for destroying cotton. J. M. Myrick. No. 1,313,724; Aug. 19; v. 265; p. 404.  
 Bolt-weevils, Machine for exterminating. I. Tubbs. No. 1,303,132; May 6; v. 262; p. 125.  
 Bolster, Equalizing. G. B. Carlson. No. 1,290,081; Jan. 7; v. 258; p. 16.  
 Bolt: See  
     Boiler stay-bolt. Nut-lock bolt.  
     Chain-bolt. Rifle-bolt.  
     Door-bolt. Spring-bolt.  
     Expansion-bolt. Stay-bolt.  
     Key-bolt. Toggle-bolt.  
     Lock-bolt.  
 Bolt. L. Grgec. No. 1,301,558; Apr. 22; v. 261; p. 728.  
 Bolt. W. Hackett. No. 1,310,909; July 22; v. 264; p. 631.  
 Bolt. J. H. Warner. No. 1,291,303; Jan. 14; v. 258; p. 331.  
 Bolt. F. A. Wooster and F. L. Knox. No. 1,292,556; Jan. 28; v. 258; p. 686.  
 Bolt-anchor. J. Karitzky. No. 1,295,328; Feb. 25; v. 259; p. 636.  
 Bolt-anchor. F. Karitzky. No. 1,326,663; Dec. 30; v. 269; p. 806.  
 Bolt-anchor. J. Kennedy. No. 1,304,886; May 27; v. 262; p. 555.  
 Bolt-anchor. J. E. Ogden. No. 1,305,001; May 27; v. 262; p. 576.  
 Bolt-anchor. H. W. Pleister. No. 1,291,119; Jan. 14; v. 258; p. 290.  
 Bolt and nut cutter. W. B. Carolus. No. 1,296,265; Mar. 4; v. 260; p. 102.  
 Bolt and nut lock. W. D. Lee. No. 1,306,600; June 10; v. 263; p. 288.  
 Bolt-cutter. W. G. Braley. No. 1,297,075; Mar. 11; v. 260; p. 320.  
 Bolt-dogging means. H. G. Voight. No. 1,311,304; July 29; v. 264; p. 737.  
 Bolt-extractor. T. A. Christian. No. 1,299,915; Apr. 8; v. 261; p. 323.  
 Bolt-lock, Permutation. P. Kish. No. 1,325,641; Dec. 23; v. 269; p. 578.  
 Bolt-locking device. H. Kohlmyer. No. 1,304,575; May 27; v. 262; p. 497.  
 Bolt-loosening device, Anti. A. C. Miller. No. 1,291,070; Jan. 14; v. 258; p. 279.  
 Bolt-operated locking device. G. C. Jensen. No. 1,296,398; Mar. 4; v. 260; p. 131.  
 Bolt-puller. V. H. Fitzgerald. No. 1,305,083; May 27; v. 262; p. 592.  
 Bolt, Self-locking. J. F. Hammrich. No. 1,321,033; Nov. 4; v. 268; p. 127.  
 Bolts and nuts, Machine for tightening. R. Yamane. No. 1,326,817; Dec. 30; v. 269; p. 835.  
 Bolts and the like, Detent for panic. A. A. Page. No. 1,306,560; June 10; v. 263; p. 281.  
 Bolts and the like, Safety-guard for. W. Gries. No. 1,303,293; May 13; v. 262; p. 182.  
 Bolts, Machine for drilling holes in. F. K. Landgraf. No. 1,317,711; Oct. 7; v. 267; p. 10.  
 Bolts, rivets, or the like, Manufacture of headed. F. H. Griffiths. No. 1,308,629; July 1; v. 264; p. 114.  
 Bolting-reel. J. J. Trefz. No. 1,302,456; Apr. 29; v. 261; p. 932.  
 Bolting-up device. W. T. Hogan. No. 1,303,665; May 13; v. 262; p. 250.  
 Bolting-up jack. W. F. Young. No. 1,305,680; June 3; v. 263; p. 85.  
 Boltless clamp. L. B. Knapsenberger. No. 1,320,556; Nov. 4; v. 268; p. 38.  
 Bomb. C. L. Archer. No. 1,321,699; Nov. 11; v. 268; p. 317.  
 Bomb. A. A. Bull. No. 1,301,098; Apr. 22; v. 261; p. 639.  
 Bomb. J. Graumann. No. 1,326,258; Dec. 30; v. 269; p. 730.  
 Bomb. R. Jiardina. No. 1,323,221; Nov. 25; v. 268; p. 706.  
 Bomb. C. F. Kemm. No. 1,313,300; Aug. 19; v. 265; p. 324.  
 Bomb. J. Kovall. No. 1,295,176; Feb. 25; v. 259; p. 601.  
 Bomb. C. J. Moses. No. 1,294,937; Feb. 18; v. 259; p. 524.  
 Bomb. T. Myskow. No. 1,291,683; Jan. 14; v. 258; p. 421.  
 Bomb. T. K. North. No. 1,298,377; Mar. 25; v. 260; p. 651.  
 Bomb. G. Sublecki. No. 1,292,408; Jan. 21; v. 258; p. 628.  
 Bomb. G. E. Williams. No. 1,300,537; Apr. 15; v. 261; p. 483.  
 Bomb, Aerial. L. P. Barlow. No. 1,318,954; Oct. 14; v. 267; p. 308.  
 Bomb, Aerial. J. Piróg. No. 1,293,542; Feb. 4; v. 259; p. 132.  
 Bomb, Aerial. H. H. Placey. No. 1,294,156; Feb. 11; v. 259; p. 306.  
 Bomb, Aerial. P. L. Settle. No. 1,318,926; Oct. 14; v. 267; p. 303.  
 Bomb, Aeroplane. J. Hill. No. 1,302,554; May 6; v. 262; p. 14.  
 Bomb and discharging means therefor. L. P. Barlow. No. 1,318,955; Oct. 14; v. 267; p. 309.  
 Bomb, Bending. R. V. Morse. No. 1,325,486; Dec. 16; v. 269; p. 531.  
 Bomb-catapult. A. Rouen. No. 1,295,069; Feb. 18; v. 259; p. 553.  
 Bomb, Contact. L. P. Barlow. No. 1,318,956; Oct. 14; v. 267; p. 309.  
 Bomb-dropper. H. Limanowski. No. 1,295,534; Feb. 25; v. 259; p. 684.  
 Bomb-dropping machine. P. M. Hussey and C. E. Irvine. No. 1,305,214; May 27; v. 262; p. 617.  
 Bomb-dropping machine. B. Killman. No. 1,312,911; Aug. 12; v. 265; p. 232.  
 Bomb, Electric. J. Sutkay. No. 1,321,259; Nov. 11; v. 268; p. 234.  
 Bomb for aerial work, Explosive. J. Rapp. No. 1,291,685; Jan. 14; v. 258; p. 421.  
 Bomb, Incendiary. M. C. Stearns. No. 1,305,751; June 3; v. 263; p. 98.



- Bomb, Mortar-. F. L. Nichols. No. 1,309,743; July 15; v. 264; p. 387.
- Bomb or shell. J. Martena. No. 1,314,413; Aug. 26; v. 265; p. 569.
- Bomb or torpedo. L. P. Barlow. No. 1,317,608; Sept. 30; v. 266; p. 690.
- Bomb, Submarine. J. H. Downs. No. 1,290,125; Jan. 7; v. 258; p. 27.
- Bomb-thrower. F. L. Nichols. No. 1,318,905; Oct. 14; v. 267; p. 273.
- Bomb-thrower. S. Sokol. No. 1,319,310; Oct. 21; v. 267; p. 401.
- Bomb, Trench-. T. E. Murray, Jr. No. 1,295,569; Feb. 25; v. 259; p. 692.
- Bomb, Waterproof drop-. L. P. Barlow. No. 1,317,612; Sept. 30; v. 266; p. 691.
- Bombs, &c., Booster construction for explosive. L. P. Barlow. No. 1,317,611; Sept. 30; v. 266; p. 691.
- Bombs, Flight-control means for. G. T. Phillips, Jr. No. 1,324,433; Dec. 9; v. 269; p. 273.
- Bombs, Mold for dummy aerial. E. V. Eskesen. No. 1,296,639; Mar. 11; v. 260; p. 220.
- Bombs or projectiles, Apparatus for casting. J. N. Chadwick. No. 1,298,176; Mar. 25; v. 260; p. 610.
- Bombs, Receptacle for incendiary aerial. A. Chanard. No. 1,306,747; June 17; v. 263; p. 348.
- Bone-clamp-. R. E. Klett. No. 1,302,176; Apr. 29; v. 261; p. 877.
- Bonnet, Vacuum-. J. H. Boyd. No. 1,298,446; Mar. 25; v. 260; p. 667.
- Book. H. C. Dwelle. No. 1,312,022; Aug. 5; v. 265; p. 32.
- Book, Account-. D. R. Jones, Jr. No. 1,316,899; Sept. 23; v. 266; p. 519.
- Book, Account deposit-. C. J. Harding. No. 1,294,657; Feb. 18; v. 259; p. 459.
- Book and arm rest, Adjustable. E. E. Jenkins. No. 1,318,564; Oct. 14; v. 267; p. 234.
- Book, Bank deposit-. O. V. Smith. No. 1,308,532; July 1; v. 264; p. 95.
- Book, Cash-. E. W. Swank. No. 1,297,417; Mar. 18; v. 260; p. 422.
- Book, Check-. W. B. Palmer. No. 1,307,143; June 17; v. 263; p. 421.
- Book, Check-. H. Smith. No. 1,307,708; June 24; v. 263; p. 556.
- Book, Cook-. A. M. Clark. No. 1,309,594; July 8; v. 264; p. 322.
- Book-cover, Adjustable. A. T. Walraven. No. 1,308,461; July 1; v. 264; p. 82.
- Book-cover protector. A. H. McClatchy. No. 1,311,983; Aug. 5; v. 265; p. 25.
- Book-cover protector. A. T. Walraven. No. 1,325,127; Dec. 16; v. 269; p. 466.
- Book-covers and the like, Rack for. A. C. Wessmann. No. 1,297,619; Mar. 18; v. 260; p. 465.
- Book-covers, Former for shaping the backs of. J. R. Reynolds. No. 1,323,319; Dec. 2; v. 269; p. 18.
- Book-covers, &c., Stamping. W. Willmott. No. 1,320,950; Nov. 4; v. 268; p. 112.
- Book-covering machine. T. S. Etheridge. No. 1,297,131; Mar. 11; v. 260; p. 332.
- Book, Deposit-. F. R. White. No. 1,309,869; July 15; v. 264; p. 409.
- Book, Double-indexed. G. R. Gillette. No. 1,290,171; Jan. 7; v. 258; p. 38.
- Book, Fanfolded. W. F. Wilmot. No. 1,311,733; July 29; v. 264; p. 817.
- Book-gathering machines, Positioning means for. C. A. Cheshire. No. 1,290,510; Jan. 7; v. 258; p. 120.
- Book-holder. T. W. Gerould. No. 1,326,720; Dec. 30; v. 269; p. 816.
- Book-holder and line-guide. C. L. Dahlberg. No. 1,317,004; Sept. 23; v. 266; p. 538.
- Book-joint. F. Reuter. No. 1,292,880; Jan. 28; v. 258; p. 764.
- Book-leaf-turning thumb-hold. R. Muessel. No. 1,301,486; Apr. 22; v. 261; p. 715.
- Book, Loose-leaf. R. G. Whitlock. No. 1,291,320; Jan. 14; v. 258; p. 335.
- Book, Loose-leaf. R. G. Whitlock. No. 1,299,276; Apr. 1; v. 261; p. 150.
- Book, Loose-leaf. R. G. Whitlock. No. 1,300,206; Apr. 8; v. 261; p. 387.
- Book, Manifolding-. A. M. Bovier. No. 1,293,011; Feb. 4; v. 259; p. 10.
- Book, Manifolding sales-. E. K. Bottle. No. 1,294,385; Feb. 18; v. 259; p. 395.
- Book, Manifolding sales-. E. K. Bottle. No. 1,295,104; Feb. 25; v. 259; p. 585.
- Book, Manifolding sales-. E. K. Bottle. No. 1,295,105; Feb. 25; v. 259; p. 585.
- Book, Manifolding sales-. E. K. Bottle. No. 1,295,264; Feb. 25; v. 259; p. 621.
- Book, Manifolding sales-. E. K. Bottle. No. 1,324,333; Dec. 9; v. 269; p. 253.
- Book, Manifolding sales-. E. Z. Lewis. No. 1,322,702; Nov. 25; v. 268; p. 607.
- Book, Manifolding sales-. A. A. Yerkes. No. 1,291,339; Jan. 14; v. 258; p. 339.
- Book, Manifolding sales-. A. A. Yerkes. No. 1,291,340; Jan. 14; v. 258; p. 340.
- Book-posting device. E. Varley. No. 1,304,223; May 20; v. 262; p. 390.
- Book-rack. R. B. Cass. No. 1,317,550; Sept. 30; v. 266; p. 679.
- Book, Record-. G. S. White. No. 1,322,275; Nov. 18; v. 268; p. 475.
- Book-rest. L. C. Eisenhart and W. A. Lewis. No. 1,323,586; Dec. 2; v. 269; p. 68.
- Book-rest. F. A. Schlanger. No. 1,297,015; Mar. 11; v. 260; p. 307.
- Book, Stamp and advertising. M. A. Fritz. No. 1,292,750; Jan. 28; v. 258; p. 732.
- Book-stitching-machine conveyer. M. Christensen. No. 1,297,322; Mar. 18; v. 260; p. 403.
- Book-stitching machines, Conveyer for. M. Christensen. No. 1,296,047; Mar. 4; v. 260; p. 53.
- Book, Subscription-. H. F. Rawll. No. 1,298,629; Mar. 25; v. 260; p. 705.
- Book-support. C. U. Widmer. No. 1,305,853; June 3; v. 263; p. 118.
- Book-trimming machines, Book-pad adjuster for automatic. J. Rowe. (Reissue.) No. 14,616; Mar. 18; v. 260; p. 545.
- Book, Triplicate sales-. S. T. Dalton. No. 1,314,509; Sept. 2; v. 266; p. 6.
- Books, Case-holder for. A. Engel. No. 1,304,668; May 27; v. 262; p. 514.
- Books, Fire and dust proof cover for record-. W. C. Akans. No. 1,293,659; Feb. 11; v. 259; p. 190.
- Books, &c., Rest for. W. A. De Long, Jr. No. 1,320,322; Oct. 28; v. 267; p. 615.
- Books, tablets, &c., Backing-machine for. L. J. Frohn. No. 1,304,760; May 27; v. 262; p. 532.
- Bookbinder. J. J. Ralek. No. 1,301,320; Apr. 22; v. 261; p. 684.
- Bookbinder, Loose-leaf. H. T. Adams. No. 1,313,240; Aug. 19; v. 265; p. 313.
- Bookbinding. W. P. Pitt. No. 1,299,776; Apr. 8; v. 261; p. 293.
- Bookbinding. A. C. Wassmann. No. 1,290,442; Jan. 7; v. 258; p. 103.
- Bookcase. U. G. Lee. No. 1,307,261; June 17; v. 263; p. 442.
- Bookkeeping entry-sheet. C. B. Redway. No. 1,292,878; Jan. 28; v. 258; p. 763.
- Bookkeeping-form. J. Spiegel. No. 1,291,223; Jan. 14; v. 258; p. 313.
- Bookkeeping-machines, Combination form and sheet for. J. C. Green. No. 1,324,665; Dec. 9; v. 269; p. 318.
- Booklet-cover. G. L. Goetz. No. 1,306,691; June 17; v. 263; p. 338.
- Bookmark. M. J. Kissell. No. 1,322,796; Nov. 25; v. 268; p. 625.
- Room. W. Travell. No. 1,305,631; June 3; v. 263; p. 77.
- Boom, Loading-. S. Nord and A. Anderson. No. 1,313,108; Aug. 12; v. 265; p. 271.
- Boot. H. J. Flannery. No. 1,312,781; Aug. 12; v. 265; p. 207.
- Boot and shoe rack. J. W. Blais and G. Lecourt. No. 1,304,847; May 27; v. 262; p. 548.
- Boot-jack hook. A. J. La Boissiere, C. F. Hanson, and H. D. Chalker. No. 1,293,318; Feb. 4; v. 259; p. 81.
- Boot-leg form. A. Schoshusen. No. 1,313,505; Aug. 19; v. 265; p. 362.
- Boot or shoe last. H. W. Bastian. No. 1,325,608; Dec. 23; v. 269; p. 572.
- Boot, Repair-. R. C. Bigham. No. 1,303,154; May 6; v. 262; p. 129.
- Boot-robe. M. E. Krotzer. No. 1,302,179; Apr. 29; v. 261; p. 878.
- Boot-stripping device. J. J. Kramer and H. Smerling. No. 1,299,399; Apr. 1; v. 261; p. 178.
- Boots and shoes, Machine for use in manufacturing stiffeners for. J. H. Ordway. No. 1,312,567; Aug. 12; v. 265; p. 165.
- Boots and shoes, Method of and apparatus for lasting. W. A. Stubbs. No. 1,326,112; Dec. 23; v. 269; p. 665.
- Boots and shoes, Motor-driven machine for the manufacture of. F. J. Spencer and W. J. Kelly. No. 1,308,305; July 1; v. 264; p. 55.
- Boots and shoes, Sole for use in the manufacture of. S. W. Winslow, Jr. No. 1,296,894; Mar. 11; v. 260; p. 280.
- Boots and shoes, Welt for. W. B. Arnold. No. 1,307,174; June 17; v. 263; p. 426.
- Boots, shoes, and the like, Making. W. Jansen, J. Hzn. No. 1,303,065; May 6; v. 262; p. 111.
- Bootjack. H. F. Stone. No. 1,296,565; Mar. 4; v. 260; p. 167.
- Booth, Ticket-seller's. A. Fellheimer. No. 1,308,702; July 1; v. 264; p. 127.
- Border for show-cards, maps, almanacs, and the like, Suspension-. J. Vas Dias. No. 1,309,319; July 8; v. 264; p. 271.
- Border-mitering jig, Printer's-. M. J. E. Rotsaert. No. 1,313,606; Aug. 19; v. 265; p. 382.
- Bore-holes and like narrow channels, Method and means for ascertaining condition of. R. Roesler. No. 1,293,202; Feb. 4; v. 259; p. 52.
- Bore-sighting device. C. C. Sheppard. No. 1,295,075; Feb. 18; v. 259; p. 555.



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- Boring and cutting tool. H. C. McKinley. No. 1,298,071; Mar. 25; v. 260; p. 587.
- Boring-bar. J. M. Bird. No. 1,291,736; Jan. 21; v. 258; p. 464.
- Boring-bar holder, Reversible. E. F. G. Gibbs. No. 1,308,282; July 1; v. 264; p. 50.
- Boring-bar holder, Tool-post. E. F. G. Gibbs. No. 1,308,281; July 1; v. 264; p. 50.
- Boring-drill, Rotary. R. E. Carmichael. No. 1,295,969; Mar. 4; v. 260; p. 34.
- Boring-drill, Rotary. H. R. Hughes. No. 1,316,094; Sept. 16; v. 266; p. 320.
- Boring-drill, Rotary. H. R. Hughes. No. 1,322,696; Nov. 25; v. 268; p. 606.
- Boring-drill, Rotary. H. R. Hughes. No. 1,325,944; Dec. 23; v. 269; p. 634.
- Boring-drill, Rotary. G. A. Humason. No. 1,326,509; Dec. 30; v. 269; p. 777.
- Boring,drilling, milling, and tapping machine, Horizontal. W. F. McCarty. No. 1,302,395; Apr. 29; v. 261; p. 919.
- Boring-machine. P. Bosch. No. 1,314,181; Aug. 26; v. 265; p. 524.
- Boring-machine. W. M. Hoffman. No. 1,316,236; Sept. 16; v. 266; p. 346.
- Boring-machine. F. Silbernagel. No. 1,300,663; Apr. 15; v. 261; p. 509.
- Boring-machine. H. S. Stronach. No. 1,311,626; July 29; v. 264; p. 797.
- Boring-machine. L. I. Yeomans. No. 1,309,389; July 8; v. 264; p. 283.
- Boring-machine. L. G. Zesbaugh, C. E. Larson, O. W. Thomas, and S. Fryckberg. No. 1,322,213; Nov. 18; v. 268; p. 463.
- Boring machine, Earth-. W. A. Meyers. No. 1,315,565; Sept. 9; v. 266; p. 209.
- Boring machine, Post-hole-. D. E. Payne. No. 1,294,154; Feb. 11; v. 259; p. 306.
- Boring-machine, Precision. B. M. W. Hanson. No. 1,323,267; Dec. 2; v. 269; p. 8.
- Boring-mill. A. C. Wais. No. 1,296,885; Mar. 11; v. 260; p. 277.
- Boring or drilling purposes, Jig device for. H. A. Dudgeon. No. 1,300,828; Apr. 15; v. 261; p. 545.
- Boring or reaming tool. W. E. Kelly. No. 1,306,185; June 10; v. 263; p. 210.
- Boring-tool. H. Anschütz-Kaempfe. No. 1,313,367; Aug. 19; v. 265; p. 336.
- Boring-tool. H. W. Dedman. No. 1,313,371; Aug. 19; v. 265; p. 337.
- Boring-tool. E. Gairing. No. 1,298,196; Mar. 25; v. 260; p. 614.
- Boring-tool. E. Kromer. No. 1,303,071; May 6; v. 262; p. 112.
- Boring-tool. C. H. Schmidgall. No. 1,297,740; Mar. 18; v. 260; p. 492.
- Boring tools, Mechanism for operating earth-. N. H. Smith. No. 1,299,803; Apr. 8; v. 261; p. 299.
- Boric acid and sodium borate, Making. H. Blumenberg, Jr. No. 1,295,958; Mar. 4; v. 260; p. 32.
- Bosom-press. C. L. Braley. No. 1,309,562; July 8; v. 264; p. 315.
- Bottle. L. Dowler. No. 1,321,016; Nov. 4; v. 268; p. 124.
- Bottle. C. G. Hilgenberg. No. 1,296,288; Mar. 4; v. 260; p. 107.
- Bottle. S. S. Staples. No. 1,304,114; May 20; v. 262; p. 370.
- Bottle. T. E. Suffolk. No. 1,301,762; Apr. 22; v. 261; p. 769.
- Bottle. D. Unruh. No. 1,295,240; Feb. 25; v. 259; p. 616.
- Bottle, Absorption-. H. L. Fisher. No. 1,313,626; Aug. 19; v. 265; p. 386.
- Bottle and carrier for same, Milk-. A. E. Bell. No. 1,294,029; Feb. 11; v. 259; p. 277.
- Bottle and jar rack, Collapsible. F. S. Spohr. No. 1,326,003; Dec. 23; v. 269; p. 645.
- Bottle and the like, Milk-. C. Y. Clawson. No. 1,291,412; Jan. 14; v. 258; p. 358.
- Bottle, Antirefillable. H. T. Blum. No. 1,314,460; Aug. 26; v. 265; p. 578.
- Bottle, Antirefillable. A. W. Longaker. No. 1,310,999; July 22; v. 264; p. 647.
- Bottle attachment. W. H. Wilkerson, Jr. No. 1,314,294; Aug. 26; v. 265; p. 546.
- Bottle, Automatic spraying-. L. K. Mobley. No. 1,298,543; Mar. 25; v. 260; p. 689.
- Bottle-cap. A. L. Foreman. No. 1,314,318; Aug. 26; v. 265; p. 551.
- Bottle-cap. W. G. Nicholls. No. 1,304,193; May 20; v. 262; p. 384.
- Bottle-cap. L. Skala. No. 1,290,859; Jan. 7; v. 258; p. 202.
- Bottle-cap. H. L. Watkins. No. 1,304,002; May 20; v. 262; p. 350.
- Bottle-cap and the like. J. Popp. No. 1,290,655; Jan. 7; v. 258; p. 155.
- Bottle-cap-making machine, Milk-. P. R. Simmons. No. 1,297,023; Mar. 11; v. 260; p. 309.
- Bottle cap, Milk-. W. H. Underwood. No. 1,315,802; Sept. 9; v. 266; p. 251.
- Bottle cap, Mucilage-. G. W. Earnest. No. 1,303,179; May 6; v. 262; p. 136.
- Bottle-cap protector, Milk-. H. Dixon and A. Thiele. No. 1,294,883; Feb. 18; v. 259; p. 512.
- Bottle-cap remover. B. F. Fowler. No. 1,326,490; Dec. 30; v. 269; p. 773.
- Bottle-cap remover. A. E. Steinhauser. No. 1,293,969; Feb. 11; v. 259; p. 262.
- Bottle-cap remover and alarm. C. F. Scarborough. No. 1,307,519; June 24; v. 263; p. 523.
- Bottle-cap remover, Milk-. J. F. Einfeldt. No. 1,290,944; Jan. 14; v. 258; p. 250.
- Bottle-caps, Remover or opener for. C. J. Kryzanowsky. No. 1,324,830; Dec. 16; v. 269; p. 410.
- Bottle caps, Tool for removing and replacing milk-. A. F. Demory. No. 1,299,690; Apr. 8; v. 261; p. 273.
- Bottle capping and sealing machine. T. J. Levey. No. 1,302,683; May 6; v. 262; p. 38.
- Bottle-capping apparatus. J. C. Miller. No. 1,300,754; Apr. 15; v. 261; p. 529.
- Bottle-capping device. H. Wennersten. No. 1,294,006; Feb. 11; v. 259; p. 272.
- Bottle-capping machine. F. C. Applegate. No. 1,316,996; Sept. 23; v. 266; p. 537.
- Bottle-capping machine. T. S. Bell. No. 1,307,843; June 24; v. 263; p. 581.
- Bottle-capping machine. J. Brenzinger. No. 1,290,706; Jan. 7; v. 258; p. 168.
- Bottle-capping machine. A. A. Carper. No. 1,299,820; Apr. 8; v. 261; p. 302.
- Bottle-capping machine. J. C. Kappelhoff. No. 1,296,810; Mar. 11; v. 260; p. 259.
- Bottle-capping machine. C. W. Kendall. No. 1,299,355; Apr. 1; v. 261; p. 167.
- Bottle-capping machine. C. J. Lawson. No. 1,304,578; May 27; v. 262; p. 498.
- Bottle-capping machine. P. C. Lieber. No. 1,303,340; May 13; v. 262; p. 191.
- Bottle-capping machine. E. Nordstrom. No. 1,303,580; May 13; v. 262; p. 233.
- Bottle-capping machine. E. Nordstrom. No. 1,303,581; May 13; v. 262; p. 234.
- Bottle-capping machine. E. A. Oliver. No. 1,310,960; July 22; v. 264; p. 640.
- Bottle-capping-machine retainer. P. C. Lieber. No. 1,290,256; Jan. 7; v. 258; p. 59.
- Bottle-capping machines, Crown-feeder for. S. Kaye. No. 1,304,323; May 20; v. 262; p. 409.
- Bottle-capping machines, Feeding device for. E. A. Hey. No. 1,311,892; Aug. 5; v. 265; p. 8.
- Bottle-carrier. H. L. Vaughan. No. 1,307,067; June 17; v. 263; p. 408.
- Bottle carrier, Milk-. A. K. Sutherland. No. 1,308,742; July 1; v. 264; p. 135.
- Bottle-case. E. P. Lindahl. No. 1,315,371; Sept. 9; v. 266; p. 174.
- Bottle-cleaner. G. Luptak. No. 1,303,085; May 6; v. 262; p. 115.
- Bottle-cleaning apparatus. O. Eick. No. 1,292,278; Jan. 21; v. 258; p. 599.
- Bottle-cleaning apparatus. J. R. Gruetter. No. 1,313,814; Aug. 19; v. 265; p. 420.
- Bottle-closure. G. G. Davis. No. 1,294,057; Feb. 11; v. 259; p. 283.
- Bottle-closure. F. Hackmann. No. 1,319,067; Oct. 21; v. 267; p. 355.
- Bottle-closure. E. Johnson. No. 1,312,544; Aug. 12; v. 265; p. 160.
- Bottle-closure. E. W. Kaiser. No. 1,324,354; Dec. 9; v. 269; p. 258.
- Bottle-closure. W. T. Peterson. No. 1,313,503; Aug. 19; v. 265; p. 362.
- Bottle-closure. W. S. Searles. No. 1,325,586; Dec. 23; v. 269; p. 568.
- Bottle, Collapsible milk-. A. H. Cooper. No. 1,317,687; Oct. 7; v. 267; p. 5.
- Bottle container, Milk-. J. J. Hannon. No. 1,311,966; Aug. 5; v. 265; p. 21.
- Bottle-corking machine. A. I. Risser. No. 1,306,502; June 10; v. 263; p. 271.
- Bottle-crate. W. W. Birnstock. No. 1,324,580; Dec. 9; v. 269; p. 302.
- Bottle-crate. A. L. Foreman. No. 1,290,157; Jan. 7; v. 258; p. 35.
- Bottle-crate. A. L. Foreman. No. 1,314,317; Aug. 26; v. 265; p. 551.
- Bottle-crate. B. Tartakovsky. No. 1,290,681; Jan. 7; v. 258; p. 162.
- Bottle, Cream-. M. Hamel. No. 1,300,607; Apr. 15; v. 261; p. 498.
- Bottle-crowning machine. H. J. Chilton. No. 1,324,645; Dec. 9; v. 269; p. 314.
- Bottle-crowning-machine-scraper attachment. J. Becker. No. 1,292,997; Feb. 4; v. 259; p. 6.
- Bottle dispenser. Cooled-. L. H. Goodwin. No. 1,293,410; Feb. 4; v. 259; p. 101.
- Bottle, Dispensing-. A. F. Kammer. No. 1,316,723; Sept. 23; v. 266; p. 487.
- Bottle, Dispensing-. L. A. Maiden. (Reissue.) No. 14,688; July 15; v. 264; p. 507.
- Bottle-emptying apparatus. H. Bayer. No. 1,292,994; Feb. 4; v. 259; p. 5.



- Bottle-feeding mechanism. A. Calleson. No. 1,309,935; July 15; v. 264; p. 422.
- Bottle-filler. J. Ortedahl. No. 1,308,101; July 1; v. 264; p. 17.
- Bottle filling and capping machine. T. L. Valerius. No. 1,290,424; Jan. 7; v. 258; p. 98.
- Bottle filling and corking machine. L. Daum. No. 1,307,898; June 24; v. 263; p. 591.
- Bottle filling and sealing machine. A. Calleson. (Re-issue.) No. 14,657; June 10; v. 263; p. 303.
- Bottle-filling device. J. H. Godfrey. No. 1,306,890; June 17; v. 263; p. 375.
- Bottle-filling device. S. R. King. No. 1,325,991; Dec. 23; v. 269; p. 643.
- Bottle-filling machine, Self-siphoning. W. P. Carter. No. 1,324,644; Dec. 9; v. 269; p. 314.
- Bottle-filling machines, Automatic clamping mechanism for. J. E. and A. A. Henes and A. Nelson. No. 1,321,916; Nov. 18; v. 268; p. 408.
- Bottle guard, Poison-. F. Scott. No. 1,301,510; Apr. 22; v. 261; p. 720.
- Bottle-guide for filling-machines. V. P. McVoy. No. 1,315,140; Sept. 2; v. 266; p. 121.
- Bottle handle, Milk-. C. Dutcher. No. 1,315,481; Sept. 9; v. 266; p. 194.
- Bottle handling and testing mechanism. E. E. Winkley. No. 1,316,549; Sept. 16; v. 266; p. 407.
- Bottle-handling apparatus. J. C. Miller. No. 1,296,547; Mar. 4; v. 260; p. 163.
- Bottle-holder. W. J. Phillips. No. 1,325,859; Dec. 23; v. 269; p. 619.
- Bottle-holder. C. W. Tocknell. No. 1,301,886; Apr. 29; v. 261; p. 823.
- Bottle holder, Milk-. P. D'Angelillo. No. 1,296,369; Mar. 4; v. 260; p. 125.
- Bottle holder, Milk-. C. L. Cartre. No. 1,295,120; Feb. 25; v. 259; p. 588.
- Bottle holder, Milk-. F. Evans. No. 1,324,444; Dec. 9; v. 269; p. 276.
- Bottle holder, Milk-. J. A. R. Phipps. No. 1,298,559; Mar. 25; v. 260; p. 691.
- Bottle holder, Nursing-. A. Barlow. No. 1,315,621; Sept. 9; v. 266; p. 218.
- Bottle holder, Nursing-. F. J. Friedmann and M. J. Lifshitz. No. 1,302,354; Apr. 29; v. 261; p. 911.
- Bottle holder, Nursing-. C. T. Neil. No. 1,292,631; Jan. 28; v. 258; p. 705.
- Bottle holder, Nursing-. B. N. Treadwell, W. D. Osborn, and S. E. Newman. No. 1,322,656; Nov. 25; v. 268; p. 599.
- Bottle holder, Twin-. M. C. Travis. No. 1,314,379; Aug. 26; v. 265; p. 563.
- Bottle, Hot-water. C. F. Schuh. No. 1,301,509; Apr. 22; v. 261; p. 720.
- Bottle, Hot-water. G. M. Scott. No. 1,313,021; Aug. 12; v. 265; p. 254.
- Bottle, Ink-. A. Z. Cholewski and S. Majewski. No. 1,295,695; Feb. 25; v. 259; p. 721.
- Bottle, jar, and other receptacle closure. A. and H. Ingram. No. 1,292,473; Jan. 28; v. 258; p. 665.
- Bottle-labeling machine. E. Ermold. No. 1,304,319; May 20; v. 262; p. 409.
- Bottle-labeling machine. G. E. Reiners. No. 1,304,373; May 20; v. 262; p. 419.
- Bottle-making machine. H. M. Brown. No. 1,292,243; Jan. 21; v. 258; p. 591.
- Bottle, Non-refillable. P. Alo. No. 1,321,411; Nov. 11; v. 268; p. 263.
- Bottle, Non-refillable. W. J. Beisel. No. 1,324,786; Dec. 16; v. 269; p. 403.
- Bottle, Non-refillable. E. Bradshaw. No. 1,315,942; Sept. 16; v. 266; p. 292.
- Bottle, Non-refillable. R. G. Castillo. No. 1,306,947; June 17; v. 263; p. 385.
- Bottle, Non-refillable. S. Christensen. No. 1,309,394; July 8; v. 264; p. 284.
- Bottle, Non-refillable. W. D. Croaker. No. 1,305,775; June 3; v. 263; p. 103.
- Bottle, Non-refillable. H. W. Cyrus. No. 1,315,287; Sept. 9; v. 266; p. 159.
- Bottle, Non-refillable. D. Ferzacca. No. 1,300,713; Apr. 15; v. 261; p. 520.
- Bottle, Non-refillable. F. Gudger. No. 1,300,165; Apr. 8; v. 261; p. 377.
- Bottle, Non-refillable. S. Kariya. No. 1,293,464; Feb. 4; v. 259; p. 113.
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- Bottle, Non-refillable. J. F. Morrow. No. 1,310,366; July 15; v. 264; p. 499.
- Bottle, Non-refillable. M. G. O'Neill and F. Farrell. No. 1,320,904; Nov. 4; v. 268; p. 103.
- Bottle, Non-refillable. H. G. Polk. No. 1,324,321; Dec. 9; v. 269; p. 251.
- Bottle, Non-refillable. G. A. Porter. No. 1,313,910; Aug. 26; v. 265; p. 472.
- Bottle, Nursing-. A. C. Eggers. No. 1,303,546; May 13; v. 262; p. 228.
- Bottle-opener. H. J. Davis. No. 1,293,361; Feb. 4; v. 259; p. 90.
- Bottle-opener. R. E. Sard. No. 1,314,905; Sept. 2; v. 266; p. 80.
- Bottle or jar closure device. H. Moore. No. 1,300,222; Apr. 8; v. 261; p. 390.
- Bottle or other vessel capsuling or sealing machine. A. A. Rosengren. No. 1,295,928; Mar. 4; v. 260; p. 24.
- Bottle-receiving receptacle. A. Roger. No. 1,322,057; Nov. 18; v. 268; p. 434.
- Bottle receptacle, Milk-. W. H. Arbogast. No. 1,305,865; June 3; v. 263; p. 120.
- Bottle receptacle, Milk-. H. C. Dorn. No. 1,316,286; Sept. 16; v. 266; p. 356.
- Bottle safe, Milk-. D. J. Shaw. No. 1,325,453; Dec. 16; v. 269; p. 525.
- Bottle safe, Milk-. R. B. Wagoner. No. 1,324,531; Dec. 9; v. 269; p. 293.
- Bottle-seal. L. Arnheim. No. 1,294,220; Feb. 11; v. 259; p. 322.
- Bottle-sealing machine. A. Calleson. No. 1,294,396; Feb. 18; v. 259; p. 397.
- Bottle-sealing machine. A. Calleson. No. 1,299,551; Apr. 8; v. 261; p. 240.
- Bottle-soaking machine. J. A. Johnson. No. 1,294,469; Feb. 18; v. 259; p. 416.
- Bottle-stopper. L. G. Abbott. (Reissue.) No. 14,630; Apr. 8; v. 261; p. 393.
- Bottle-stopper. R. G. Bars. No. 1,314,848; Sept. 2; v. 266; p. 69.
- Bottle-stopper. W. B. Langan. No. 1,324,256; Dec. 9; v. 269; p. 239.
- Bottle-stopper. J. Patronell. No. 1,316,322; Sept. 16; v. 266; p. 362.
- Bottle-stopper. N. J. Watt. No. 1,324,485; Dec. 9; v. 269; p. 284.
- Bottle-stopper. T. W. V. Webb. No. 1,296,444; Mar. 4; v. 260; p. 141.
- Bottle-stopper. A. H. Wirz. No. 1,308,972; July 8; v. 264; p. 205.
- Bottle-stopper. G. Wolfermann. No. 1,324,869; Dec. 16; v. 269; p. 417.
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- Bottle-stopper fastener. C. F. Thatcher. No. 1,292,919; Jan. 28; v. 258; p. 772.
- Bottle stopper, Milk-. W. F. Schacht. No. 1,320,277; Oct. 28; v. 267; p. 606.
- Bottle-stoppers and other articles, Machine for grinding or truing. L. N. Bruner. No. 1,301,377; Apr. 22; v. 261; p. 696.
- Bottle-stoppers, Manufacture of tops for. C. M. Hyatt. No. 1,322,792; Nov. 25; v. 268; p. 624.
- Bottle-support. W. J. Phillips. No. 1,325,860; Dec. 23; v. 269; p. 619.
- Bottle supporter, Nursing-. M. Klenetzky. No. 1,304,066; May 20; v. 262; p. 361.
- Bottle-suspending hook. E. S. Kearn. No. 1,304,064; May 20; v. 262; p. 361.
- Bottle-tap. C. H. Nickell. No. 1,324,206; Dec. 9; v. 269; p. 230.
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- Bottle-washer. C. H. Loew and J. R. Gruetter. No. 1,313,706; Aug. 19; v. 265; p. 400.
- Bottle-washer. H. C. Martinelli. No. 1,323,604; Dec. 2; v. 269; p. 71.
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- Bottle-washing machine. G. J. Meyer. No. 1,310,128; July 15; v. 264; p. 456.
- Bottle-washing machines, Temperature-controller for. G. J. Meyer. No. 1,297,299; Mar. 11; v. 260; p. 369.
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- Bottles, Air and germ proof cover for sealing. W. E. Stedman. No. 1,299,389; Apr. 1; v. 261; p. 176.
- Bottles and holders therefor, Nipple for nursing. A. Pfrommer. No. 1,318,911; Oct. 14; v. 267; p. 300.
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- Bottles and other articles, Machine for grinding glass. L. N. Bruner. No. 1,301,376; Apr. 22; v. 261; p. 696.
- Bottles and the like, Manufacturing water-. R. Griffith. No. 1,317,442; Sept. 30; v. 266; p. 658.
- Bottles, Apparatus for accurately reading milk test-. G. E. Willmarth. No. 1,315,446; Sept. 9; v. 266; p. 188.
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- Bottles, Cover-placing machine for. E. and T. G. Linderme. No. 1,294,495; Feb. 18; v. 259; p. 421.
- Bottles, Device for rinsing and sterilizing milk-. J. L. Shay. No. 1,320,420; Nov. 4; v. 268; p. 12.
- Bottles, Dropping-stopper for medicine-. V. B. Henry. No. 1,313,987; Aug. 26; v. 265; p. 488.
- Bottles, &c., for liquids, Device for preventing the fraudulent refilling of. J. H. Baldwin. No. 1,324,577; Dec. 9; v. 269; p. 301.
- Bottles, Indicator for medicine-. C. R. Carlson. No. 1,317,660; Sept. 30; v. 266; p. 700.



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- Bottles, Machine for securing metallic caps to. W. Buzatt. No. 1,319,845; Oct. 28; v. 267; p. 526.
- Bottles, Making. M. Niven. No. 1,318,170; Oct. 7; v. 267; p. 97.
- Bottles, Manufacture of paper. E. T. Greenfield and J. G. V. Lang. No. 1,310,117; July 15; v. 264; p. 454.
- Bottles, Mouthpiece for feeding. F. Graham-Yooll. No. 1,306,303; June 10; v. 263; p. 234.
- Bottles or the like, Stopper for water-. H. P. Kraft. No. 1,301,711; Apr. 22; v. 261; p. 758.
- Bottles, Paper cap for milk-. A. R. Munro. No. 130,710; May 13; v. 262; p. 258.
- Bottles, Pour-out for. W. D. Deppermann. No. 1,310,405; July 15; v. 264; p. 506.
- Bottles, Self-locking retainer for milk-. F. N. Bechoff and M. M. Samuels. No. 1,302,125; Apr. 29; v. 261; p. 868.
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- Box-holder. G. E. Tarnow. No. 1,313,137; Aug. 12; v. 265; p. 277.
- Box or tassel making and forming attachment or device. J. and W. Weismantel. No. 1,307,069; June 17; v. 263; p. 408.
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- Bowl-hanger, Design for a. T. Dahl. (Reissue.) No. 14,735; Oct. 14; v. 267; p. 324.
- Bowl, Stock-watering. F. H. Bogda. No. 1,310,320; July 15; v. 264; p. 491.
- Bowl, Water-. W. Loudon. No. 1,296,586; Mar. 4; v. 260; p. 172.
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- Bowling-alley. W. J. Barnett. No. 1,295,413; Feb. 25; v. 259; p. 655.
- Bowling-alley. A. F. Butler. No. 1,302,897; May 6; v. 262; p. 80.
- Bowling-alley. H. Loewenbach. No. 1,293,487; Feb. 4; v. 259; p. 119.
- Bowling-alley pin-setter. L. H. Broome. No. 1,290,063; Jan. 7; v. 258; p. 12.
- Bowling-alley surfacer. J. Martin. No. 1,308,762; July 8; v. 264; p. 167.
- Bowling-alleys, Surfacing-machine for. C. C. Bultman. No. 1,319,041; Oct. 21; v. 267; p. 350.
- Bowling-alleys, Surfacing-machine for. L. Engel. No. 1,303,643; May 13; v. 262; p. 245.
- Bowling apparatus. H. Fritsch. No. 1,322,892; Nov. 25; v. 268; p. 643.
- Bowling-game apparatus. G. G. and F. V. Bulfinch. No. 1,321,593; Nov. 11; v. 268; p. 297.
- Bowling-pin setting device. J. C. Backus. No. 1,319,035; Oct. 21; v. 267; p. 349.
- Bowling-pin-setting device. J. F. Cumming. No. 1,291,427; Jan. 14; v. 258; p. 361.
- Box: See—
- Accordion reed-box.
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- Carrying and dumping box.
- Cash-box.
- Casket-holding burial-box.
- Casting-box.
- Cheese-box.
- Cigar-box.
- Cigarette and match box.
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- Collapsible box.
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- Control-box.
- Cooling or cooking box.
- Core-box.
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- Delivery-box.
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- Flexible-connection box.
- Floor-box.
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- Folding box.
- Folding package-box.
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- Glazier-box.
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- Heat-box.
- Hen's nest-box.
- Hermetically-sealed box.
- Horn and sound-box.
- Ice-box.
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- Journal-box.
- Junction-box.
- Knockdown box.
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- Locomotive axle-box.
- Locomotive driving-box.
- Locomotive fire-box.
- Mail-box.
- Match-box.
- Metal packing-box.
- Meter-box.
- Milk and letter box.
- Milk and mail box.
- Miter-box.
- Molding-box.
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- Photographic dark box.
- Plant-box.
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- Box. O. M. Babcock. No. 1,320,363; Oct. 28; v. 267; p. 622.
- Box. S. Bachmann. No. 1,297,636; Mar. 18; v. 260; p. 468.
- Box. A. P. Beaupré. No. 1,317,752; Oct. 7; v. 267; p. 17.
- Box. L. Blinder. No. 1,315,593; Sept. 9; v. 266; p. 214.
- Box. E. J. Cady. No. 1,302,507; May 6; v. 262; p. 6.
- Box. W. H. Joslin. No. 1,291,540; Jan. 14; v. 258; p. 387.
- Box. N. O. Kenniker. No. 1,325,493; Dec. 16; v. 269; p. 533.
- Box. H. Koren and D. A. Clark. No. 1,318,771; Oct. 14; v. 267; p. 723.
- Box. H. Koren and D. A. Clark. No. 1,318,772; Oct. 14; v. 267; p. 273.
- Box. C. H. Kors. (Reissue.) No. 14,732; Oct. 7; v. 267; p. 131.
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- Box. H. W. Still. No. 1,300,671; Apr. 15; v. 261; p. 511.
- Box. E. Wells. No. 1,309,499; July 8; v. 264; p. 303.
- Box. J. W. Wisterman. No. 1,311,149; July 22; v. 264; p. 675.
- Box and making same. G. C. Babcock. No. 1,326,708; Dec. 30; v. 269; p. 814.
- Box and method of manufacture, Pasteboard. A. J. Evers. No. 1,308,058; July 1; v. 264; p. 9.
- Box and table, Portable combined provision-. P. J. and M. E. Ackels. No. 1,301,351; Apr. 22; v. 261; p. 691.
- Box-assembling apparatus. A. E. Durland. No. 1,315,915; Sept. 9; v. 266; p. 273.
- Box-assembling machine. L. J. Nelson. No. 1,297,392; Mar. 18; v. 260; p. 417.
- Box-blank-guiding device. E. Craig. No. 1,323,966; Dec. 2; v. 269; p. 140.
- Box-blank machine. S. F. Bauwens. (Reissue.) No. 14,670; June 24; v. 263; p. 615.
- Box-blank machine. J. H. Greenstreet. No. 1,291,482; Jan. 14; v. 258; p. 374.
- Box-blank machine. J. H. Greenstreet. No. 1,325,719; Dec. 23; v. 269; p. 593.
- Box-blanks, Machine for making. J. J. Miller. No. 1,295,187; Feb. 25; v. 259; p. 603.
- Box-blanks, Machine for making. H. L. Staley. No. 1,292,119; Jan. 21; v. 258; p. 561.
- Box-bodies, Machine for forming. S. Abbott. No. 1,323,143; Nov. 25; v. 268; p. 690.
- Box, case, and the like, Collapsible. W. Neuts. No. 1,308,678; July 1; v. 264; p. 123.
- Box-closure. F. G. Burgess. No. 1,325,349; Dec. 16; v. 269; p. 507.
- Box construction. J. C. Melson. No. 1,318,682; Oct. 14; v. 267; p. 256.
- Box-covering machine. E. M. Hawkins. No. 1,302,546; May 6; v. 262; p. 13.
- Box-covering machine and the like. C. B. Pearsall. No. 1,302,587; May 6; v. 262; p. 20.
- Box-covering-machine box-shell-feeding means. E. G. Rider. No. 1,295,602; Feb. 25; v. 259; p. 700.
- Box-end-stapling machine. O. C. Thompson. No. 1,295,237; Feb. 25; v. 259; p. 615.
- Box ends, Retaining and locking device for. G. Roesch. No. 1,324,981; Dec. 16; v. 269; p. 438.
- Box-fastener. W. S. Duvall. No. 1,319,517; Oct. 21; v. 267; p. 441.
- Box-fastener. N. O. Kenniker. No. 1,290,230; Jan. 7; v. 258; p. 52.
- Box fastener and opener, Combined. T. M. Terwilliger, Jr. No. 1,323,335; Dec. 2; v. 269; p. 21.
- Box-filling machine. J. C. Donnelly. No. 1,326,187; Dec. 30; v. 269; p. 716.
- Box-filling machine. M. Paridon. No. 1,300,762; Apr. 15; v. 261; p. 531.
- Box-filling machine. M. Paridon. No. 1,300,763; Apr. 15; v. 261; p. 531.
- Box-front. C. L. Whitmore. No. 1,299,645; Apr. 8; v. 261; p. 262.
- Box-handling apparatus. F. Stebler and G. J. Kuehn. No. 1,290,675; Jan. 7; v. 258; p. 160.
- Box-holder. G. F. Scott. No. 1,319,363; Oct. 21; v. 267; p. 411.
- Stop-valve box.
- Stuffing-box.
- Suit-box.
- Switch-box.
- Switch or outlet box.
- Terminal box.
- Ticket-box.
- Toilet-box.
- Tool-box.
- Toy pounding-box.
- Trunk shoe-box.
- Veneer berry-box.
- Vanity-box.
- Vent-box.
- Whetstone-box.
- Window flower-box.
- Wire-bound box.



- Box-holding clamp. A. N. Weidenbach. No. 1,299,640; Apr. 8; v. 261; p. 261.
- Box lock, Switch and coil. D. T. Griffith. No. 1,307,253; June 17; v. 263; p. 440.
- Box-locking mechanism. E. C. Declercq. No. 1,324,341; Dec. 9; v. 269; p. 255.
- Box-machine. J. H. Greenstreet. No. 1,325,718; Dec. 23; v. 269; p. 592.
- Box-magazine. T. C. Johnson and F. L. Humiston. No. 1,323,063; Nov. 25; v. 268; p. 675.
- Box-magazines, Device for loading. T. C. Johnson and F. F. Burton. No. 1,295,038; Feb. 18; v. 259; p. 546.
- Box-magazines from cartons, Portable device for. T. C. Johnson and F. F. Burton. No. 1,295,039; Feb. 18; v. 259; p. 546.
- Box making and covering machine. L. C. Palmer. No. 1,320,492; Nov. 4; v. 268; p. 25.
- Box-making machine. R. C. Neff. No. 1,305,398; June 3; v. 263; p. 32.
- Box-making machine. L. J. Nelson. No. 1,297,391; Mar. 18; v. 260; p. 417.
- Box-making machine. L. C. Palmer. No. 1,312,570; Aug. 12; v. 265; p. 166.
- Box-making machine. J. P. Wright and C. A. Carlson. No. 1,293,288; Feb. 4; v. 259; p. 73.
- Box-making-machine electric counter. H. S. Labombarde. No. 1,298,518; Mar. 25; v. 260; p. 684.
- Box-nailing bench. P. N. McGlothlen. No. 1,303,488; May 13; v. 262; p. 217.
- Box-opener. D. H. Grazier. No. 1,291,841; Jan. 21; v. 258; p. 490.
- Box opener, Stuffing. W. R. Ray. No. 1,326,095; Dec. 23; v. 269; p. 662.
- Box or container, Compound. H. Hirshbein. No. 1,318,999; Oct. 14; v. 267; p. 317.
- Box or carton. H. R. Calef. No. 1,304,020; May 20; v. 262; p. 353.
- Box or crate. C. Marcinkiewicz. No. 1,297,885; Mar. 18; v. 260; p. 522.
- Box or crate, Folding closed-corner. A. M. Wight. No. 1,295,403; Feb. 25; v. 259; p. 653.
- Box or crate frame. A. P. Cochrane. No. 1,326,646; Dec. 30; v. 269; p. 803.
- Box or similar receptacle, Work-. S. E. O'Bryan. No. 1,323,405; Dec. 2; v. 269; p. 34.
- Box-partition-assembling machine. W. J. McMillan. No. 1,311,609; July 29; v. 264; p. 794.
- Box-press. D. Parker. No. 1,293,181; Feb. 4; v. 259; p. 48.
- Box-seal. E. J. Brooks. (Reissue.) No. 14,649; May 20; v. 262; p. 450.
- Box seal-lock. J. G. Enström. No. 1,324,111; Dec. 9; v. 269; p. 211.
- Box-sealing machine. C. P. Strite. No. 1,290,676; Jan. 7; v. 258; p. 161.
- Box-shook machine. W. H. Peace. No. 1,296,424; Mar. 4; v. 260; p. 136.
- Box-spanner, Double-jointed or universal-jointed. E. H. Evans. No. 1,300,148; Apr. 8; v. 261; p. 374.
- Box-spring. S. Gainer. No. 1,296,068; Mar. 4; v. 260; p. 58.
- Box-strap. P. J. Forbes. No. 1,320,220; Oct. 28; v. 267; p. 595.
- Box-strapping device. J. J. Wilson. No. 1,297,283; Mar. 11; v. 260; p. 365.
- Box-stuff-trimming mechanism. G. A. Smith. No. 1,314,834; Sept. 2; v. 266; p. 67.
- Box-top stapler. E. Craig. No. 1,325,780; Dec. 23; v. 269; p. 604.
- Box-topping machine. E. G. Staude. No. 1,314,988; Sept. 2; v. 266; p. 95.
- Box-topping machines, Continuous feed device for. C. F. Schutte. No. 1,323,496; Dec. 2; v. 269; p. 51.
- Box-wrapper for packages. C. Schneider. No. 1,292,891; Jan. 28; v. 258; p. 766.
- Boxes, Adjustable cover for. L. H. Frank. No. 1,326,333; Dec. 30; v. 269; p. 743.
- Boxes and the like, Opening mechanism for hermetic. T. Stokke and A. Larsen. No. 1,314,162; Aug. 26; v. 265; p. 520.
- Boxes, Coin-container for mail. A. D. Koss. No. 1,315,133; Sept. 2; v. 266; p. 120.
- Boxes, Corner-joint for. P. C. Schroeder. No. 1,322,208; Nov. 18; v. 268; p. 461.
- Boxes in rows, Apparatus for assembling. M. Paridon. No. 1,300,761; Apr. 15; v. 261; p. 530.
- Boxes, Loom attachment for outlet-. M. B. Levin. No. 1,310,758; July 22; v. 264; p. 603.
- Boxes, Machine for making round. T. J. Clarke and A. Ily. No. 1,300,211; Apr. 8; v. 261; p. 388.
- Boxes of carton-blanks, Apparatus for manufacturing. S. Feldman. No. 1,294,076; Feb. 11; v. 259; p. 288.
- Boxes, Self-lubricating device for journal-. F. C. Buell. No. 1,308,887; July 8; v. 264; p. 189.
- Boxes, tins, or cans for preserves or for other vessels, Hermetic sealing device for. A. A. Rosengren. No. 1,296,560; Mar. 4; v. 260; p. 166.
- Boxing and net-weighting materials, Apparatus for. C. F. Felming. No. 1,310,747; July 22; v. 264; p. 601.
- Brace: See—
- Angle or corner brace.
- Automobile-brace.
- Car-door brace.
- Door-brace.
- Drill-brace.
- Flexible brace.
- Furniture-brace.
- Leaf-spring brace.
- Pulley-supporting brace.
- Radius-rod brace.
- Rail-brace.
- Saw-brace.
- Shoulder and body brace.
- Speed-brace.
- Stringed-instrument brace.
- Suspender and brace.
- Tool-handle brace.
- Vehicle-footboard brace.
- Wagon-brace.
- Bracelet. A. Eklund. No. 1,310,859; July 22; v. 264; p. 622.
- Bracelet. C. G. King. No. 1,303,220; May 6; v. 262; p. 142.
- Bracelet. W. H. Pruefer. No. 1,304,706; May 27; v. 262; p. 522.
- Bracelet. N. Roodman. No. 1,309,657; July 15; v. 264; p. 371.
- Bracelet-catch. C. R. Tost. No. 1,292,924; Jan. 28; v. 258; p. 773.
- Bracelet end hook. S. A. Johnson. No. 1,315,226; Sept. 9; v. 266; p. 148.
- Bracelet-link. A. Hadley. No. 1,292,763; Jan. 28; v. 258; p. 735.
- Bracelets, Catch for. C. R. Tost. No. 1,316,869; Sept. 23; v. 266; p. 513.
- Bracelets or the like, Slack-absorber for. A. Simon. No. 1,313,645; Aug. 19; v. 265; p. 389.
- Bracket: See—
- Automobile-bumper bracket.
- Automobile license-bracket.
- Brake-lever bracket.
- Bumper-bracket.
- Bumper-supporting bracket.
- Car-door bracket.
- Corner-bracket.
- Counter-bracket.
- Curtain-bracket.
- Curtain and shade bracket.
- Curtain and shade holding bracket.
- Curtain and window-shade bracket.
- Curtain-rod bracket.
- Curtain-supporting bracket.
- Drawing-board bracket.
- Electric-light bracket.
- Fire-extinguisher bracket.
- Flag-bracket.
- Hanging bracket.
- Insulator-bracket.
- Junction-bracket.
- Lamp-bracket.
- Pump-supporting bracket.
- Reinforcing and repair bracket.
- Roof-bracket.
- Scaffold-bracket.
- Shade-bracket.
- Shade and curtain bracket.
- Shade or curtain bracket.
- Shade-roller bracket.
- Shingling-bracket.
- Shade-supporting bracket.
- Stair-tread bracket.
- Storm-sash bracket.
- Uncoupling-rod bracket.
- Wall-radiator bracket.
- Wheel-bracket.
- Window-shade bracket.
- Window-shade and curtain bracket.
- Bracket. R. J. Burrows. No. 1,314,502; Sept. 2; v. 266; p. 5.
- Bracket. S. F. Hilgenfeld. No. 1,320,329; Oct. 28; v. 267; p. 616.
- Bracket. W. J. Hinze and C. D. and S. B. Katterheirich. No. 1,326,731; Dec. 30; v. 269; p. 819.
- Bracket. H. Moller. No. 1,305,922; June 3; v. 263; p. 131.
- Bracket. R. T. Newton. No. 1,315,789; Sept. 9; v. 266; p. 248.
- Bracket. R. B. Older. No. 1,307,413; June 24; v. 263; p. 503.
- Bracket. W. W. Russell. No. 1,299,234; Apr. 1; v. 261; p. 140.
- Bracket. P. Whimster. No. 1,317,903; Oct. 7; v. 267; p. 46.
- Bracket and the like invisible support. T. Tschudin. No. 1,297,609; Mar. 18; v. 260; p. 463.
- Bracket and the like invisible support. T. Tschudin. No. 1,297,610; Mar. 18; v. 260; p. 463.
- Bracket-back, Design for a. T. Dahl. (Reissue.) No. 14,737; Oct. 14; v. 267; p. 324.
- Bracket bed-table. W. W. Markwood. No. 1,295,182; Feb. 25; v. 259; p. 602.
- Bracket construction. L. R. Adsit. No. 1,324,713; Dec. 9; v. 269; p. 327.
- Bracket-table. R. C. Angell. No. 1,324,370; Dec. 9; v. 269; p. 261.
- Bracket-table, Folding. F. Nelson and C. Espersen. No. 1,326,683; Dec. 30; v. 269; p. 809.
- Braid, Machine for forming tatting. H. H. West. No. 1,313,439; Aug. 19; v. 265; p. 350.
- Braiding-machine. E. Diebold. No. 1,296,271; Mar. 4; v. 260; p. 104.
- Braiding-machine. H. Janssen. No. 1,325,946; Dec. 23; v. 269; p. 634.
- Braiding-machine. L. F. Lamplough. No. 1,295,178; Feb. 25; v. 259; p. 601.
- Braiding-machine. H. C. Lewis. No. 1,322,590; Nov. 25; v. 268; p. 587.
- Braiding-machine. A. Petersen. No. 1,305,490; June 3; v. 263; p. 49.
- Braiding-machine. C. E. Troxel. No. 1,295,639; Feb. 25; v. 259; p. 708.
- Braiding-machine carrier. F. Mossberg. No. 1,295,565; Feb. 25; v. 259; p. 692.
- Braiding-machines, Guide-plate for the bobbins of. E. Walther. No. 1,315,265; Sept. 9; v. 266; p. 155.



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- Braiding-machines, Spool-carrier for. T. L. Eberly. No. 1,325,933; Dec. 23; v. 269; p. 632.  
 Brake: *See*—  
   Accident-brake. Gun-brake.  
   Aeroplane-brake. Hand-brake.  
   Air-brake. Hub-brake.  
   Antiskidding brake. Internal-expanding brake.  
   Auto electric brake. Internal expansion-brake.  
   Automatic brake. Locomotive-brake.  
   Automobile-brake. Machine-brake.  
   Automobile air-brake. Magnetic brake.  
   Automobile wheel-brake. Pneumatic brake.  
   Band-brake. Rail-brake.  
   Brick-press brake. Railway-brake.  
   Car-brake. Railway hand-brake.  
   Car hand-brake. Sled-brake.  
   Coaster-brake. Steering-wheel brake.  
   Drum-brake. Talking-machine brake.  
   Dynamometer-brake. Tractor-brake.  
   Electrofluid-pressure brake. Trailer-brake.  
   Electropneumatic brake. Truck-brake.  
   Emergency-brake. Vehicle-brake.  
   Fluid-pressure brake. Vehicle air-brake.  
   Friction-brake. Vehicle emergency-brake.  
   Governor-brake. Wagon-brake.  
 Brake. J. T. Auger. No. 1,320,669; Nov. 4; v. 268; p. 58.  
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 Brake-beam fulcrums, Forming. A. H. Peycke. No. 1,302,702; May 6; v. 262; p. 42.  
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 Brake mechanism for differentials. C. W. Taylor. No. 1,324,861; Dec. 16; v. 269; p. 416.  
 Brake-operating mechanism. J. D. Compton. No. 1,307,484; June 24; v. 263; p. 517.  
 Brake-operating mechanism. C. C. Crewson. No. 1,306,803; June 17; v. 263; p. 358.  
 Brake-operating mechanism. B. E. House. No. 1,304,315; May 20; v. 262; p. 408.  
 Brake-operating mechanism. H. Josephson. No. 1,317,503; Sept. 30; v. 266; p. 669.  
 Brake-operating mechanism. C. W. McKinley. No. 1,310,801; July 22; v. 264; p. 611.



- Brake-operating mechanism. E. B. Mead. No. 1,301,290; Apr. 22; v. 261; p. 678.
- Brake-operating mechanism. J. F. O'Connor. No. 1,300,466; Apr. 15; v. 261; p. 468.
- Brake-pedal. J. H. Pifer. No. 1,300,768; Apr. 15; v. 261; p. 532.
- Brake-release spring. C. D. Young. No. 1,322,215; Nov. 18; v. 268; p. 464.
- Brake-releasing means. A. H. Peycke. No. 1,310,033; July 15; v. 264; p. 439.
- Brake-rigging release device. T. L. Burton. No. 1,319,043; Oct. 21; v. 267; p. 351.
- Brake-rigging release device. W. V. Turner. No. 1,307,165; June 17; v. 263; p. 424.
- Brake-rod jaw. S. H. Campbell. No. 1,312,680; Aug. 12; v. 265; p. 187.
- Brake-rod safety bracket-hanger. Locomotive. F. J. Robillard. No. 1,310,295; July 15; v. 264; p. 486.
- Brake safety means. J. Horrigan. No. 1,303,064; May 6; v. 262; p. 111.
- Brake-shoe. J. Cook. No. 1,311,320; July 29; v. 264; p. 740.
- Brake-shoe. F. T. Dickinson. No. 1,308,402; July 1; v. 264; p. 72.
- Brake-shoe. M. R. De France. No. 1,303,172; May 6; v. 262; p. 132.
- Brake-shoe. M. R. De France. No. 1,303,173; May 6; v. 262; p. 133.
- Brake-shoe. H. Jones. No. 1,313,540; Aug. 19; v. 265; p. 369.
- Brake-shoe. J. A. McCann. No. 1,324,603; Dec. 9; v. 269; p. 306.
- Brake-shoe and making same. G. T. Bond. No. 1,292,423; Jan. 28; v. 258; p. 653.
- Brake-shoe. Antirattler. J. Cook. No. 1,290,098; Jan. 7; v. 258; p. 21.
- Brake-shoe hanger device. T. L. Burton. No. 1,296,917; Mar. 11; v. 260; p. 235.
- Brake-shoe-key lock. W. F. Cremean and W. E. Wine. No. 1,309,186; July 8; v. 264; p. 245.
- Brake-shoe-key lock. A. W. Hawkins. No. 1,304,044; May 20; v. 262; p. 357.
- Brake-shoes. Apparatus for casting. M. J. Walsh. No. 1,315,805; Sept. 9; v. 266; p. 251.
- Brake-shoes. Casting strap-back. M. J. Walsh. No. 1,315,804; Sept. 9; v. 266; p. 251.
- Brake-shoes. Method and device for the manufacture of. M. R. De France. No. 1,321,897; Nov. 18; v. 268; p. 405.
- Brake-staff. C. F. Kuehne and R. P. Donaher. No. 1,308,363; July 1; v. 264; p. 65.
- Brake supporting and releasing arrangement. A. H. Peycke. No. 1,315,401; Sept. 9; v. 266; p. 179.
- Brake-supporting arrangement. A. H. Peycke. No. 1,323,314; Dec. 2; v. 269; p. 17.
- Brake-supporting means. A. H. Peycke. No. 1,315,395; Sept. 9; v. 266; p. 178.
- Brake-supporting means. A. H. Peycke. No. 1,323,313; Dec. 2; v. 269; p. 17.
- Brake-supporting mechanism. O. R. Mitchell. No. 1,302,575; May 6; v. 262; p. 18.
- Brake-supporting mechanism. A. H. Peycke. No. 1,310,032; July 15; v. 264; p. 439.
- Brake-supporting mechanism. A. H. Peycke and L. L. Whitney. No. 1,322,047; Nov. 18; v. 268; p. 433.
- Brake system. W. V. Turner. No. 1,316,204; Sept. 16; v. 266; p. 340.
- Brake system. Fluid-pressure. J. A. Hicks. No. 1,306,665; June 10; v. 263; p. 301.
- Brake systems. Air-pressure governor for air. J. W. De Schamps. No. 1,304,162; May 20; v. 262; p. 378.
- Brake-valve device. W. V. Turner. No. 1,294,977; Feb. 18; v. 259; p. 532.
- Brakes and clutches. Friction-lining for. H. Corey. No. 1,324,648; Dec. 9; v. 269; p. 315.
- Brakes, clutches, and the like. Operating device for. C. B. King, B. Jacoby, and C. S. Johnson. No. 1,319,008; Oct. 14; v. 267; p. 318.
- Brakes, clutches, &c. Means for operating and controlling. C. S. Johnson. No. 1,298,956; Apr. 1; v. 261; p. 78.
- Brakes, &c. Device for band-. E. J. Armstrong. No. 1,315,452; Sept. 9; v. 266; p. 189.
- Brakes. Means for supporting. A. H. Peycke. No. 1,315,397; Sept. 9; v. 266; p. 179.
- Brakes. Supporting and leveling device for clasp-. A. H. Peycke. No. 1,322,048; Nov. 18; v. 268; p. 433.
- Brakes. Supporting means for. A. H. Peycke. No. 1,315,396; Sept. 9; v. 266; p. 179.
- Braking, drive-clutch, and motor-starting mechanism. Combined. J. A. Taylor. No. 1,301,018; Apr. 15; v. 261; p. 585.
- Braking means. H. A. Boyde. No. 1,320,981; Nov. 4; v. 268; p. 117.
- Braking mechanism. M. P. Holmes. No. 1,303,219; May 6; v. 262; p. 141.
- Braking mechanism. H. G. Saal. No. 1,293,939; Feb. 11; v. 259; p. 255.
- Braking system. Regenerative. W. V. Turner and T. H. Thomas. No. 1,322,844; Nov. 25; v. 268; p. 634.
- Branding-machine. D. R. Campbell. No. 1,300,342; Apr. 15; v. 261; p. 442.
- Brass from foundry-ash and the like. Recovery of. C. H. White. No. 1,309,165; July 8; v. 264; p. 242.
- Brass wind instruments. Drain-cup for. J. C. Steinbrueck. No. 1,298,595; Mar. 25; v. 260; p. 699.
- Brassière. I. S. Jerome. No. 1,306,595; June 10; v. 263; p. 287.
- Brassière. W. Kops. No. 1,294,116; Feb. 11; v. 259; p. 297.
- Brassière. B. E. Leavitt. No. 1,294,492; Feb. 18; v. 259; p. 420.
- Brassière. E. H. Lowman. No. 1,290,608; Jan. 7; v. 258; p. 143.
- Brassière and dress-shield. H. M. Burr. No. 1,295,427; Feb. 25; v. 259; p. 659.
- Brassière for nursing mothers. I. C. Epp. No. 1,300,212; Apr. 8; v. 261; p. 388.
- Brazier. Folding. J. Courbon. No. 1,312,307; Aug. 5; v. 265; p. 84.
- Bread-baking shell. A. P. Pfeil. (Reissue.) No. 14,761; Nov. 25; v. 268; p. 709.
- Bread-board. L. Ehrke. No. 1,315,101; Sept. 2; v. 266; p. 115.
- Bread-board. G. J. Kling. No. 1,313,900; Aug. 26; v. 265; p. 470.
- Bread-board. E. B. Merrill. No. 1,297,712; Mar. 18; v. 260; p. 485.
- Bread-conveyer mechanism. F. G. Bird. No. 1,321,784; Nov. 11; v. 268; p. 333.
- Bread-cutter. E. Johnson. No. 1,307,552; June 24; v. 263; p. 529.
- Bread-cutting device. J. Stasse. No. 1,316,518; Sept. 16; v. 266; p. 400.
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- Bread-labeling device. O. C. Bueldt. No. 1,306,745; June 17; v. 263; p. 348.
- Bread-loaf. Presliced. J. D. Rafert. No. 1,319,899; Oct. 28; v. 267; p. 536.
- Bread-loaves. Machine for making presliced. J. D. Rafert. No. 1,309,419; July 8; v. 264; p. 289.
- Bread. Machine for cooling. D. K. Allison. No. 1,312,294; Aug. 5; v. 265; p. 82.
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- Bread. Manufacture of concentrated. C. A. Heudebert. No. 1,293,772; Feb. 11; v. 259; p. 216.
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- Bread-mixer. I. Raskin. No. 1,325,205; Dec. 16; v. 269; p. 480.
- Bread-rack. W. L. Baker. No. 1,322,173; Nov. 18; v. 268; p. 456.
- Bread-raiser. M. E. Harris. No. 1,296,387; Mar. 4; v. 260; p. 129.
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- Breather-tube and cap therefor. J. B. Fisher. No. 1,298,922; Apr. 1; v. 261; p. 70.
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- Breach-block-operating device. J. Hyde. No. 1,291,677; Jan. 14; v. 258; p. 420.
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- Breach mechanism. D. F. Asbury. No. 1,310,045; July 15; v. 264; p. 441.
- Breach mechanism. Counterbalance for swinging. D. F. Asbury. No. 1,326,629; Dec. 30; v. 269; p. 800.
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- Brick, Building. J. J. Whitacre. No. 1,323,514; Dec. 2; v. 269; p. 55.
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- Brick-cleaning machine. N. T. Fuller. No. 1,309,405; July 8; v. 264; p. 286.
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- Brick kiln and drier, Continuous. H. Webster and W. V. Kincaid. No. 1,304,831; May 27; v. 262; p. 545.
- Brick-machine. A. Malinovsky. No. 1,310,953; July 22; v. 264; p. 638.
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- Brick-mason's joint raker and smoother. F. H. Ackerson. No. 1,292,558; Jan. 28; v. 258; p. 687.
- Brick, Medicated salt. I. N. Glover. No. 1,314,076; Aug. 26; v. 265; p. 504.
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- Brick or tile apparatus. C. M. Groves. No. 1,296,793; Mar. 11; v. 260; p. 256.
- Brick-press brake. C. W. Wilkinson. No. 1,302,113; Apr. 29; v. 261; p. 865.
- Brick-surfaced pavement, Apparatus for forming. J. F. Keenan. No. 1,291,544; Jan. 14; v. 258; p. 388.
- Brick-veneering machine. J. Eldridge. No. 1,315,916; Sept. 9; v. 266; p. 273.
- Brick wall and building of same. M. Eriksson. No. 1,317,782; Oct. 7; v. 267; p. 23.
- Bricks, Apparatus for making. H. W. B. Graham. No. 1,301,685; Apr. 22; v. 261; p. 754.
- Bricks, Composition of matter for manufacturing building. L. Halper. No. 1,317,288; Sept. 30; v. 266; p. 629.
- Bricks or building-blocks, Machine for molding perforated. J. E. Kiefer. No. 1,300,734; Apr. 15; v. 261; p. 525.
- Brickmaking-machine. I. C. Frey. No. 1,301,048; Apr. 15; v. 261; p. 592.
- Brickmaking-machine. D. F. Shope. No. 1,306,977; June 17; v. 263; p. 390.
- Brickwork, concrete, &c., Metal reinforcement for. W. Sharp. No. 1,304,315; May 27; v. 262; p. 542.
- Bridge. G. H. Day. No. 1,307,118; June 17; v. 263; p. 417.
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- Bridge, Bascule. T. E. Brown. No. 1,302,302; Apr. 29; v. 261; p. 901.
- Bridge, Bascule. S. Moreell. No. 1,311,284; July 29; v. 264; p. 733.
- Bridge for vehicles, Portable. E. S. Austen. No. 1,324,291; Dec. 9; v. 269; p. 246.
- Bridge rail-clamp, Traveling. R. E. Brown. No. 1,297,083; Mar. 11; v. 260; p. 322.
- Bridge, Street-crossing escalator. O. F. Wegener. No. 1,292,938; Jan. 28; v. 258; p. 777.
- Bridge-type phase-splitters, Protective means for. M. Hartenheim. No. 1,293,767; Feb. 11; v. 259; p. 215.
- Bridle. W. T. Hopson. No. 1,296,806; Mar. 11; v. 260; p. 259.
- Bridle attachment. T. L. Steele. No. 1,322,367; Nov. 18; v. 268; p. 493.
- Bridle attachment. Bitless. G. D. Janikas. No. 1,293,454; Feb. 4; v. 259; p. 112.
- Bridle, Bitless. P. R. Aas. No. 1,315,357; Sept. 9; v. 266; p. 172.
- Brief bag or case. H. J. Guenther. No. 1,322,785; Nov. 25; v. 268; p. 623.
- Brilliant. S. Heller. No. 1,291,506; Jan. 14; v. 258; p. 379.
- Brinell hardness-testing machine. E. H. Fisher. No. 1,320,748; Nov. 4; v. 268; p. 73.
- Briquet and making same. C. Ellis. No. 1,311,222; July 29; v. 264; p. 721.
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- Briquet and manufacturing same. C. E. Hite. No. 1,290,922; Jan. 14; v. 258; p. 260.
- Briquet-machine. G. Komarek. No. 1,295,764; Feb. 25; v. 259; p. 737.
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- Briquet-machine feeder. G. Komarek. No. 1,292,483; Jan. 28; v. 258; p. 668.
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- Briquets, Means for drying. B. Baker. No. 1,324,758; Dec. 9; v. 269; p. 335.
- Briquets or other molded articles, Making. C. Ellis. (Reissue). No. 14,653; May 27; v. 262; p. 622.
- Briquetting. F. A. Jordan. No. 1,304,186; May 20; v. 262; p. 383.
- Briquetting apparatus. F. A. Jordan. No. 1,304,185; May 20; v. 262; p. 383.
- Briquetting-machine. W. D. Alexander. No. 1,291,705; Jan. 21; v. 258; p. 456.
- Briquetting-press. C. Korte. No. 1,293,124; Feb. 4; v. 259; p. 35.
- Briquetting-press. W. Schumacher. No. 1,322,960; Nov. 25; v. 268; p. 655.
- Bristle-handling machine. J. Morrison, Jr. No. 1,319,104; Oct. 21; v. 267; p. 362.
- Broach. J. Oakley. No. 1,293,887; Feb. 11; v. 259; p. 243.
- Broaching articles. A. F. Donaldson. No. 1,318,488; Oct. 14; v. 267; p. 219.
- Broaching bushings. W. H. Bunting. No. 1,318,538; Oct. 14; v. 267; p. 229.
- Broaching bushings, Means for. A. F. Donaldson. No. 1,318,489; Oct. 14; v. 267; p. 220.
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- Broaching-machine. A. F. Donaldson. No. 1,318,487; Oct. 14; v. 267; p. 219.
- Broaching-machine. R. R. Lapointe and B. F. Levy. No. 1,296,535; Mar. 4; v. 260; p. 161.
- Broaching-machine attachment for splitting piston-rings. M. J. Acton. No. 1,291,700; Jan. 21; v. 258; p. 455.
- Broaching-machine, Inner and outer. A. F. Donaldson. No. 1,318,486; Oct. 14; v. 267; p. 219.
- Broiler. L. Durgarian. No. 1,324,544; Dec. 9; v. 269; p. 295.
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- Bromen-recovering. C. E. Murrell. No. 1,292,016; Jan. 21; v. 258; p. 535.
- Bromin from brine, Extracting. H. H. Dow. No. 1,323,173; Nov. 25; v. 268; p. 696.
- Bronze, Molybdenum. S. Shigeta. No. 1,319,537; Oct. 21; v. 267; p. 445.
- Brooches and the like, Safety-catch for. G. H. Barsantee. No. 1,315,273; Sept. 9; v. 266; p. 156.
- Brooches and the like, Safety-catch for. G. W. Dover. No. 1,292,272; Jan. 21; v. 258; p. 597.
- Brooches, &c., Safety-catch for. G. W. Dover and W. H. Hughes. No. 1,304,666; May 27; v. 262; p. 514.
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- Brooder. R. S. Kasson. No. 1,310,348; July 15; v. 264; p. 495.
- Brooder. C. Kohl. No. 1,303,804; May 13; v. 262; p. 275.
- Brooder. H. Mann. No. 1,308,717; July 1; v. 264; p. 130.
- Brooder. E. Maurer. No. 1,295,346; Feb. 25; v. 259; p. 640.
- Brooder. M. Tateoka. No. 1,320,586; Nov. 4; v. 268; p. 43.
- Brooder, Chicken. R. R. Murray. No. 1,302,411; Apr. 29; v. 261; p. 923.
- Brooder, Colony. F. E. Bowers. No. 1,304,446; May 20; v. 262; p. 434.
- Brooder, Pig. J. T. McGrath. No. 1,317,516; Sept. 30; v. 266; p. 672.
- Brooder, Poultry. M. A. Ankele. No. 1,308,470; July 1; v. 264; p. 84.
- Broom. J. F. Melton. No. 1,291,065; Jan. 14; v. 258; p. 278.
- Broom. C. Dal Poggetto. No. 1,300,770; Apr. 15; v. 261; p. 533.
- Broom. C. P. Reid. No. 1,313,206; Aug. 12; v. 265; p. 290.
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- Broom and mop holder. J. R. Strickland. No. 1,292,136; Jan. 21; v. 258; p. 565.
- Broom, attachment. J. C. Dahl. No. 1,311,953; Aug. 5; v. 265; p. 19.
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- Broom-frame. G. H. Sears. No. 1,296,861; Mar. 11; v. 260; p. 272.
- Broom-hanger. J. A. Orman. No. 1,305,486; June 3; v. 263; p. 48.
- Broom-head. S. G. Wilson. No. 1,294,739; Feb. 18; v. 259; p. 477.
- Broom-holder. C. E. Butcher. No. 1,318,539; Oct. 14; v. 267; p. 229.



- Broom-holder. H. H. Holmes. No. 1,299,575; Apr. 8; v. 261; p. 246.
- Broom-holder. F. H. Horton. No. 1,297,351; Mar. 18; v. 260; p. 409.
- Broom-holder. H. Showalter. No. 1,299,796; Apr. 8; v. 261; p. 298.
- Broom-making machine. H. J. Edlund. No. 1,292,733; Jan. 28; v. 258; p. 728.
- Broom-manufacturing machine. S. B. McHenry. No. 1,306,307; June 10; v. 263; p. 235.
- Broom-moistener. A. De Parade. No. 1,322,766; Nov. 25; v. 268; p. 620.
- Broom or brush. Rotary. L. J. Remmele. No. 1,309,695; July 15; v. 264; p. 378.
- Broom-press. C. H. Howland-Shearman. No. 1,324,153; Dec. 9; v. 269; p. 219.
- Broom-protector. P. Petersen. No. 1,305,157; May 27; v. 262; p. 606.
- Broom-rack. V. A. Butler. No. 1,319,844; Oct. 28; v. 267; p. 52.
- Brooms. Adjustable handle for. J. H. Jacobs. No. 1,301,564; Apr. 22; v. 261; p. 729.
- Brooms. Fountain attachment for. H. L. Kirsch. No. 1,325,200; Dec. 16; v. 269; p. 479.
- Brush. E. Anheuser. No. 1,324,487; Dec. 9; v. 269; p. 284.
- Brush. T. F. Barry. No. 1,314,939; Sept. 2; v. 266; p. 85.
- Brush. P. C. Caffrey. No. 1,313,515; Aug. 19; v. 265; p. 364.
- Brush. C. A. Garvey. No. 1,297,675; Mar. 18; v. 260; p. 476.
- Brush. I. Good. No. 1,322,166; Nov. 18; v. 268; p. 454.
- Brush. H. A. Hayden. No. 1,313,185; Aug. 12; v. 265; p. 286.
- Brush. J. F. McDonnell. No. 1,317,303; Sept. 30; v. 266; p. 631.
- Brush. S. B. McHenry. No. 1,306,308; June 10; v. 263; p. 235.
- Brush. R. P. Miller and C. J. Bremser. No. 1,305,733; June 3; v. 263; p. 95.
- Brush. S. D. Purdy. No. 1,300,012; Apr. 8; v. 261; p. 343.
- Brush. M. Rosenberg. No. 1,303,500; May 13; v. 262; p. 219.
- Brush. S. E. Rutter. No. 1,292,887; Jan. 28; v. 258; p. 765.
- Brush. B. Seaboldt. No. 1,309,599; July 8; v. 264; p. 323.
- Brush. J. G. Stanecky. No. 1,307,837; June 24; v. 263; p. 580.
- Brush. J. S. Stanley. No. 1,322,641; Nov. 25; v. 268; p. 596.
- Brush. B. Stensrud. No. 1,314,441; Aug. 26; v. 265; p. 575.
- Brush. L. B. Strang and C. C. Pollock. No. 1,297,272; Mar. 11; v. 260; p. 362.
- Brush. R. Swisky. No. 1,316,856; Sept. 23; v. 266; p. 511.
- Brush. M. Veeck. No. 1,296,719; Mar. 11; v. 260; p. 239.
- Brush. D. H. Walker. No. 1,309,495; July 8; v. 264; p. 302.
- Brush, Air-. J. Berg. No. 1,299,290; Apr. 1; v. 261; p. 153.
- Brush, Air-. E. B. Brewster. No. 1,316,937; Sept. 23; v. 266; p. 526.
- Brush, Air-. R. E. Holton. No. 1,292,318; Jan. 21; v. 258; p. 608.
- Brush and powder holder, Combined tooth-. R. Ross. No. 1,324,173; Dec. 9; v. 269; p. 223.
- Brush and similar apparatus, Air-. H. E. Stürcke. No. 1,294,190; Feb. 11; v. 259; p. 314.
- Brush and tooth-paste holder, Tooth-. G. W. Rhodes. No. 1,310,089; July 15; v. 264; p. 449.
- Brush attachment for collapsible tubes. R. Muller. No. 1,319,669; Oct. 21; v. 267; p. 470.
- Brush attachment, Shaving-. E. L. Hutchinson. No. 1,295,899; Mar. 4; v. 260; p. 18.
- Brush, Bottle-washer. H. Grass. No. 1,306,478; June 10; v. 263; p. 267.
- Brush, Bottle-washer. C. K. Volckening. No. 1,320,513; Nov. 4; v. 268; p. 29.
- Brush, Collapsible shaving-. B. E. J. Schwartz. No. 1,300,884; Apr. 15; v. 261; p. 556.
- Brush, Combination whitewash-. Z. Vargha. No. 1,293,257; Feb. 4; v. 259; p. 65.
- Brush, Commutator-. C. B. Berst. No. 1,300,239; Apr. 15; v. 261; p. 420.
- Brush-cutter and stump-remover. H. A. Peterson. No. 1,295,364; Feb. 25; v. 259; p. 644.
- Brush, Expansion-. P. Myres. No. 1,303,365; May 13; v. 262; p. 195.
- Brush-filling machines, Table for. L. B. Terhune. No. 1,310,457; July 22; v. 264; p. 547.
- Brush, Flexible wire. D. J. Schneider. No. 1,294,180; Feb. 11; v. 259; p. 312.
- Brush, Folding tooth-. A. H. Hendrickson. No. 1,304,769; May 27; v. 262; p. 533.
- Brush, Folding tooth-. A. Wolf. No. 1,307,530; June 24; v. 263; p. 525.
- Brush, Fountain-. C. F. Drury. No. 1,317,437; Sept. 30; v. 266; p. 657.
- Brush, Fountain-. C. A. Fisher. No. 1,292,288; Jan. 21; v. 258; p. 600.
- Brush, Fountain-. F. A. Fopiano. No. 1,293,071; Feb. 4; v. 259; p. 23.
- Brush, Fountain-. C. A. Garvey. No. 1,305,709; June 3; v. 263; p. 91.
- Brush, Fountain-. C. A. Garvey. No. 1,318,066; Oct. 7; v. 267; p. 77.
- Brush, Fountain-. N. Kato. No. 1,294,914; Feb. 18; v. 259; p. 519.
- Brush, Fountain-. R. W. MacCorkell. No. 1,309,900; July 15; v. 264; p. 415.
- Brush, Fountain-. T. Piechowicz. No. 1,310,290; July 15; v. 264; p. 485.
- Brush, Fountain blacking-. J. P. Van Dyke. No. 1,294,205; Feb. 11; v. 259; p. 318.
- Brush, Fountain shaving-. A. W. Graham. No. 1,322,1907; Nov. 18; v. 268; p. 407.
- Brush, Fountain shaving-. R. N. Robbins. No. 1,300,651; Apr. 15; v. 261; p. 506.
- Brush, Fountain tooth-. J. H. Ekmekjian. No. 1,322,413; Nov. 18; v. 268; p. 502.
- Brush, Fountain tooth-. J. Hartman and L. Joy. No. 1,314,646; Sept. 2; v. 266; p. 33.
- Brush-grip, Adjustable. O. D. Marble. No. 1,294,135; Feb. 11; v. 259; p. 302.
- Brush-guard. V. Pastore. No. 1,297,233; Mar. 11; v. 260; p. 354.
- Brush-handle attachment. C. W. Wagner. No. 1,311,581; July 29; v. 264; p. 789.
- Brush-hanger. G. A. Hilton. No. 1,308,074; July 1; v. 264; p. 13.
- Brush-holder. E. L. Clark. No. 1,293,038; Feb. 4; v. 259; p. 15.
- Brush-holder. J. S. Dean. No. 1,295,860; Mar. 4; v. 260; p. 10.
- Brush-holder. W. T. Fry. No. 1,292,980; Jan. 28; v. 258; p. 787.
- Brush-holder. S. C. McKeown. No. 1,311,904; Aug. 5; v. 265; p. 10.
- Brush-holder. S. C. McKeown. No. 1,323,888; Dec. 2; v. 269; p. 125.
- Brush-holder. C. W. Starker. No. 1,292,660; Jan. 28; v. 258; p. 711.
- Brush-holder. G. W. West. No. 1,296,245; Mar. 4; v. 260; p. 98.
- Brush-holder. C. L. Yearwood. No. 1,323,996; Dec. 2; v. 269; p. 146.
- Brush-holder and conductor-terminal. W. Brown. No. 1,314,182; Aug. 26; v. 265; p. 524.
- Brush holder and sterilizer, Tooth-. D. M. Wilcox. No. 1,304,639; May 27; v. 262; p. 509.
- Brush holder and sterilizer, Tooth-. A. G. Tillman. No. 1,306,933; June 17; v. 263; p. 383.
- Brush holder and tumbler-support, Combined tooth-. F. E. J. Young. No. 1,318,428; Oct. 14; v. 267; p. 208.
- Brush-holder, Electric. D. B. Flower. No. 1,310,147; Oct. 21; v. 267; p. 372.
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- Brush holder, Tooth-. F. O. Ackers. No. 1,291,349; Jan. 14; v. 258; p. 342.
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- Brush-holding device. L. W. Turnbull. No. 1,312,769; Aug. 12; v. 265; p. 204.
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- Brush-making machine. C. Jobst. No. 1,303,907; May 20; v. 262; p. 332.
- Brush-making machinery. S. G. Roseman. No. 1,321,394; Nov. 11; v. 268; p. 260.
- Brush, Nail-. A. R. Davidson. No. 1,309,510; July 8; v. 264; p. 305.
- Brush-puller. W. D. Vaughan. No. 1,300,897; Apr. 15; v. 261; p. 560.
- Brush-rake. J. Blair. No. 1,313,057; Aug. 12; v. 265; p. 261.
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- Brush, Rotary. W. F. Concannon and F. E. Kiefer. No. 1,304,543; May 27; v. 262; p. 492.
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- Brush, Rotary tooth-. S. Kaneye. No. 1,325,498; Dec. 16; v. 269; p. 533.
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- Brush, Shaving. G. H. Riefelin. No. 1,320,092; Oct. 28; v. 267; p. 572.
- Brush, Shaving. F. W. Wallace. No. 1,297,944; Mar. 18; v. 260; p. 535.
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- Brush, Timer. E. L. Miller. No. 1,296,420; Mar. 4; v. 260; p. 136.
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- Brush, Tooth. S. Alexander. No. 1,318,522; Oct. 14; v. 267; p. 226.
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- Buckle, Hoisting. J. F. Hickey. No. 1,314,328; Aug. 26; v. 265; p. 553.
- Buckle, Hoisting. C. J. Rudstrom and B. F. Downing. No. 1,291,166; Jan. 14; v. 258; p. 300.
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- Buckle, Milk. T. W. Barton and W. W. Waldo. No. 1,318,526; Oct. 14; v. 267; p. 226.
- Buckle, Milk. J. H. Kirkpatrick. No. 1,325,852; Dec. 23; v. 269; p. 618.
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- Buckle, Bale-tie. J. E. Morrison. No. 1,314,970; Sept. 2; v. 266; p. 91.
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- Buckle, Rein. W. O. Backlund. No. 1,299,285; Apr. 1; v. 261; p. 152.
- Buckle-retainer. F. E. Buck. No. 1,323,008; Nov. 25; v. 268; p. 665.
- Buckle-support. W. J. Fleming. No. 1,326,153; Dec. 23; v. 269; p. 673.
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- Budding-clasp. V. Tollis. No. 1,316,467; Sept. 16; v. 266; p. 390.
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- Buffer and paper-former, Shoe-heel-breast. H. G. Bendix and H. Forth. No. 1,326,836; Dec. 30; v. 269; p. 839.
- Buffer, Channel-bar. G. A. Lyon. No. 1,325,739; Dec. 23; v. 269; p. 596.
- Buffer device. A. E. Norris. No. 1,323,608; Dec. 2; v. 269; p. 72.
- Buffet and dining-table, Combined. R. E. Orne. No. 1,297,489; Mar. 18; v. 260; p. 437.
- Buffing-gear, Platform. A. C. Davidson. No. 1,312,167; Aug. 5; v. 265; p. 59.
- Buffing-machine. F. Bolter. No. 1,324,224; Dec. 9; v. 269; p. 233.
- Buffing-machine attachment. M. Horan. No. 1,295,031; Feb. 18; v. 259; p. 544.
- Buffing mechanism. J. F. O'Connor. No. 1,303,378; May 13; v. 262; p. 197.



- Buffing or polishing wheel. A. Levett. No. 1,298,522; Mar. 25; v. 260; p. 685.
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- Building. T. V. Buckwalter. No. 1,303,253; May 13; v. 262; p. 176.
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- Building and fitment of same for the application of finishes to surfaces. H. L. Hall and C. A. Sharp. No. 1,313,376; Aug. 19; v. 265; p. 338.
- Building apparatus. Mica-. L. T. Frederick. No. 1,300,370; Apr. 15; v. 261; p. 448.
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- Building-block. W. W. Griffin. No. 1,297,151; Mar. 11; v. 260; p. 337.
- Building-block. K. E. W. Jagdmann. No. 1,306,962; June 17; v. 263; p. 388.
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- Building-block. G. M. Simon. No. 1,291,205; Jan. 14; v. 258; p. 309.
- Building-block. A. A. Smiley. No. 1,306,781; June 17; v. 263; p. 355.
- Building-block construction. A. Pintersker. No. 1,322,827; Nov. 25; v. 268; p. 630.
- Building-block for hollow-wall constructions. J. B. Paulson. No. 1,300,765; Apr. 15; v. 261; p. 532.
- Building-block mold. F. O. Hellstrom. No. 1,312,631; Aug. 12; v. 265; p. 178.
- Building-block, Ventilated. H. R. Straight. No. 1,322,646; Nov. 25; v. 268; p. 597.
- Building-blocks and mechanical bond therefor. W. C. Muhlhausen. No. 1,295,919; Mar. 4; v. 260; p. 22.
- Building-blocks. Child's. M. L. Greenstreet. No. 1,294,446; Feb. 18; v. 259; p. 411.
- Building-blocks, Form for. E. H. Pipe. No. 1,314,018; Aug. 26; v. 265; p. 493.
- Building-blocks, Producing. J. H. Fritzinger. No. 1,293,076; Feb. 4; v. 259; p. 24.
- Building-clip. J. R. Spear and J. M. Beattie. No. 1,308,265; July 1; v. 264; p. 47.
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- Building construction. M. B. Armstrong. No. 1,307,333; June 24; v. 263; p. 489.
- Building construction. R. P. Keasbey. No. 1,296,527; Mar. 4; v. 260; p. 159.
- Building construction. J. O. Madison. No. 1,317,519; Sept. 30; v. 266; p. 673.
- Building construction. W. D. Mann. No. 1,318,330; Oct. 7; v. 267; p. 128.
- Building construction. W. Wait. No. 1,296,574; Mar. 4; v. 260; p. 169.
- Building-construction anchor or tie. F. M. Ellis. No. 1,301,668; Apr. 22; v. 261; p. 749.
- Building construction. Formwork-hanger for concrete. S. R. Berkowitz. No. 1,314,491; Aug. 26; v. 265; p. 584.
- Building construction. Insulated-. C. J. Merrill. No. 1,300,443; Apr. 15; v. 261; p. 463.
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- Building fluid-bags. W. F. Ferris. No. 1,297,295; Mar. 11; v. 260; p. 368.
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- Building-slab. E. Jensen. No. 1,296,525; Mar. 4; v. 260; p. 159.
- Building structure. E. L. Benedict. No. 1,311,486; July 29; v. 264; p. 771.
- Building structure. J. J. Fox. No. 1,321,728; Nov. 11; v. 268; p. 323.
- Building structure and plaster-board-anchorage means. C. G. Shuman. No. 1,308,199; July 1; v. 264; p. 35.
- Building structure. Metallic. J. W. Jones. No. 1,311,820; July 29; v. 264; p. 833.
- Building structure. Metallic. L. H. Whittredge. No. 1,296,028; Mar. 4; v. 260; p. 48.
- Building structure. Metallic. L. H. Whittredge. No. 1,298,129; Mar. 25; v. 260; p. 599.
- Building structure. Ventilated. H. R. Straight. No. 1,316,982; Sept. 23; v. 266; p. 534.
- Building unit. H. K. Hess. No. 1,291,879; Jan. 21; v. 258; p. 499.
- Building-wall. A. Lyth. No. 1,293,491; Feb. 4; v. 259; p. 120.
- Buildings. Bonding construction for. J. F. Thompson. No. 1,304,219; May 20; v. 262; p. 389.
- Buildings. Corner for. J. K. Shaw. No. 1,313,420; Aug. 19; v. 265; p. 346.
- Buildings. Molding apparatus for. J. Galan. No. 1,313,630; Aug. 19; v. 265; p. 386.
- Buildings. Side wall and corner for. J. K. Shaw. No. 1,313,421; Aug. 19; v. 265; p. 346.
- Bulkhead. E. E. Sands. No. 1,298,101; Mar. 25; v. 260; p. 593.
- Bulkhead-doors, sluice-gates, &c.. Means for automatically operating. C. Towl and D. J. Smith. No. 1,323,424; Dec. 2; v. 269; p. 38.
- Bulkheads in ships, barges, pontoons, and the like, Constructing. L. E. Smith and H. R. Cameron. No. 1,294,962; Feb. 18; v. 259; p. 529.
- Bull-ring. C. D. Broderick. No. 1,290,062; Jan. 7; v. 258; p. 12.
- Bull-wheel cleaner. W. A. D'Egilibert and B. Garland. No. 1,321,988; Nov. 18; v. 268; p. 421.
- Bullet. S. Mackiewicz. No. 1,293,653; Feb. 4; v. 259; p. 158.
- Bullet-casting machine. T. B. Stephenson. No. 1,319,673; Oct. 21; v. 267; p. 471.
- Bullet-casting machine. T. B. Stephenson. No. 1,319,674; Oct. 21; v. 267; p. 471.
- Bullet-firing alarm-lock. C. Bohachik. No. 1,296,747; Mar. 11; v. 260; p. 246.
- Bullet, Incendiary. L. W. Rockwell. No. 1,300,195; Apr. 8; v. 261; p. 384.
- Bullets, especially shrapnel, Making. C. J. Ellsworth. No. 1,309,938; July 15; v. 264; p. 422.
- Bullets, &c., Machine for casting. T. B. Stephenson. No. 1,319,672; Oct. 21; v. 267; p. 470.
- Bullets, Making armor-piercing. D. L. Fries and H. F. Phillips. No. 1,318,860; Oct. 14; v. 267; p. 290.
- Bulletin and sign board. F. H. Loveless. No. 1,306,491; June 10; v. 263; p. 269.
- Bulletin box, Safety-. J. B. Douglas. No. 1,325,008; Dec. 16; v. 269; p. 442.
- Bumper. H. Barnett. No. 1,302,279; Apr. 29; v. 261; p. 897.
- Bumper. A. L. Evans. No. 1,325,467; Dec. 16; v. 269; p. 528.
- Bumper. W. R. Green. No. 1,311,557; July 29; v. 264; p. 785.
- Bumper. C. C. Helman and C. E. Beard. No. 1,290,187; Jan. 7; v. 258; p. 42.
- Bumper. J. H. Sager. No. 1,296,855; Mar. 11; v. 260; p. 270.
- Bumper. A. M. Sonnichsen. No. 1,315,428; Sept. 9; v. 266; p. 184.
- Bumper, Automatic. V. Breuer and P. Leschnik. No. 1,325,924; Dec. 23; v. 269; p. 631.
- Bumper-bar. F. A. Wasson. No. 1,317,112; Sept. 23; v. 266; p. 559.
- Bumper-bracket. L. P. Halladay. No. 1,316,030; Sept. 16; v. 266; p. 308.
- Bumper bracket and clamp. J. Berg. No. 1,294,381; Feb. 18; v. 259; p. 393.
- Bumper, Caterpillar-. G. W. Anderson. No. 1,319,260; Oct. 21; v. 267; p. 392.
- Bumper, step, and dash, Combined. C. A. Ward. (Re-issue.) No. 14,758; Nov. 18; v. 268; p. 521.
- Bumper-supporting bracket. A. J. H. Kuhsiek. No. 1,322,121; Nov. 18; v. 268; p. 446.
- Bundle binding and tying machine. C. E. Evans. No. 1,324,239; Dec. 9; v. 269; p. 236.
- Bundle binding, and tying machine. C. E. Evans. No. 1,324,238; Dec. 9; v. 269; p. 235.
- Bundle device. W. Brammer. No. 1,307,182; June 17; v. 263; p. 427.
- Bundle or sheaf loader. R. J. Finkle. No. 1,315,713; Sept. 9; v. 266; p. 234.
- Bundle-tying machine, Hand. H. S. Terry. No. 1,316,002; Sept. 16; v. 266; p. 303.
- Bundle-tying machines, Needle-release for. A. H. Saxton and J. J. Bachmayer. No. 1,322,628; Nov. 25; v. 268; p. 594.
- Bundling. E. C. Danner. No. 1,321,092; Nov. 11; v. 268; p. 202.
- Bundling and tying machine, Automatic. J. M. Leaver, Jr. No. 1,295,531; Feb. 25; v. 259; p. 683.
- Bundling-machine. E. Hatch. No. 1,300,166; Apr. 8; v. 261; p. 378.
- Bundling-press. H. Abele. No. 1,306,571; June 10; v. 263; p. 282.
- Bunk. B. E. Paul. No. 1,291,629; Jan. 13; v. 258; p. 408.
- Bunsen burner. G. Helps. No. 1,320,004; Oct. 28; v. 267; p. 556.
- Bunsen burner. F. W. Magee. No. 1,294,504; Feb. 18; v. 259; p. 423.
- Buoy. W. A. Corley. No. 1,295,008; Feb. 18; v. 259; p. 539.
- Buoy, Bell-. W. B. Anderson. No. 1,299,101; Apr. 1; v. 261; p. 111.
- Buoy-lamp. F. R. Dyke. No. 1,313,172; Aug. 12; v. 265; p. 283.
- Buoy, Life-. T. Imaizumi. No. 1,305,606; June 3; v. 263; p. 73.
- Buoy, Lifting-. J. P. Burton. No. 1,299,121; Apr. 1; v. 261; p. 115.
- Buoy, Locating-. M. Shafer. No. 1,295,805; Feb. 25; v. 259; p. 746.
- Buoy, Mooring-. G. B. Dame. No. 1,320,604; Nov. 4; v. 268; p. 46.
- Buoy, Wreck-indicating. W. Slawski. No. 1,294,549; Feb. 18; v. 259; p. 433.
- Bur-removing mechanism. I. W. Atchison and F. M. Steimer. No. 1,296,154; Mar. 4; v. 260; p. 79.
- Burette. F. Hiesegell. No. 1,314,265; Aug. 26; v. 265; p. 541.



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- Burglar-alarm. S. Brook. No. 1,294,867; Feb. 18; v. 259; p. 508.
- Burglar-alarm. F. A. Brunel. No. 1,296,262; Mar. 4; v. 260; p. 101.
- Burglar-alarm. C. De Stefano. No. 1,294,242; Feb. 11; v. 259; p. 327.
- Burglar-alarm. I. Jasculca. No. 1,311,233; July 29; v. 264; p. 723.
- Burglar-alarm. J. King and S. Schermann. No. 1,309,529; July 8; v. 264; p. 309.
- Burglar-alarm. W. Tierney. No. 1,306,789; June 17; v. 263; p. 356.
- Burglar-alarm and lock. A. Matha and J. F. Lesko. No. 1,314,086; Aug. 26; v. 265; p. 506.
- Burglar-alarm and lock. C. J. Stroke. No. 1,299,808; Apr. 8; v. 261; p. 300.
- Burglar-alarm device. R. W. Vail. No. 1,291,283; Jan. 14; v. 258; p. 327.
- Burglar-alarm, Electric. S. B. Hess. No. 1,320,857; Nov. 4; v. 268; p. 94.
- Burglar-alarm lock. S. B. Rodgers. No. 1,325,112; Dec. 16; v. 269; p. 463.
- Burglar-alarm lock and door-bell. L. F. Lohrens. No. 1,296,982; Mar. 11; v. 260; p. 300.
- Burglar-alarm, Portable. J. M. Butcher. No. 1,310,941; July 22; v. 264; p. 636.
- Burglar-alarm system. S. B. Hess. No. 1,298,710; Apr. 1; v. 261; p. 21.
- Burglar-alarm system and apparatus therefor. T. H. Nelson. No. 1,290,644; Jan. 7; v. 258; p. 152.
- Burglar-trap. W. Leon. No. 1,300,981; Apr. 15; v. 261; p. 577.
- Burial-casket handle. M. F. Davoran. No. 1,325,781; Dec. 23; v. 269; p. 604.
- Burial-overbox. J. Gery. No. 1,310,987; July 22; v. 264; p. 645.
- Burial-vault closure. T. E. Lutz. No. 1,303,087; May 6; v. 262; p. 115.
- Burling or examining machine. M. Poetzsch. No. 1,313,012; Aug. 12; v. 265; p. 252.
- Burner: See—
- Acetylene-burner. Hydrocarbon-fuel burner.
- Blowpipe-burner. Kerosene-burner.
- Bunsen burner. Kerosene-vapor burner.
- Church-lamp oil-burner. Lamp-burner.
- Clinker-burner. Liquid-fuel burner.
- Coal-oil burner. Oil-burner.
- Combination-burner. Oil and gas burner.
- Downdraft-burner. Oil-furnace burner.
- Fluid-fuel burner. Oil vaporizer and burner.
- Fuel-burner. Pilot-burner.
- Fuel-oil burner. Primary or pilot burner.
- Gas-burner. Rubbish-burner.
- Gas-furnace burner. Stump-burner.
- Horizontal oil-burner. Valve and oil-burner.
- Hydrocarbon-burner. Vapor-burner.
- Burner. E. Cahow. No. 1,290,904; Jan. 14; v. 258; p. 240.
- Burner. C. F. Beck. No. 1,321,358; Nov. 11; v. 268; p. 253.
- Burner. C. W. Davis. No. 1,290,107; Jan. 7; v. 258; p. 23.
- Burner. W. F. Day. No. 1,310,066; July 15; v. 264; p. 445.
- Burner. A. E. Eager. No. 1,316,777; Sept. 23; v. 266; p. 497.
- Burner. J. Foerst. No. 1,321,816; Nov. 18; v. 268; p. 390.
- Burner. M. Gross. No. 1,315,302; Sept. 9; v. 266; p. 162.
- Burner. G. H. Irving and B. F. Durphy. No. 1,315,188; Sept. 2; v. 266; p. 130.
- Burner. P. D. Johnson. No. 1,300,171; Apr. 8; v. 261; p. 379.
- Burner. T. W. Muckle. No. 1,302,950; May 6; v. 262; p. 89.
- Burner. J. Rohr and F. Kurzrock. No. 1,303,597; May 13; v. 262; p. 237.
- Burner. I. M. Sharp. No. 1,307,320; June 17; v. 263; p. 453.
- Burner. A. L. Upton and S. N. Immer. No. 1,322,376; Nov. 18; v. 268; p. 495.
- Burner. F. H. Warner. No. 1,297,048; Mar. 11; v. 260; p. 314.
- Burner and stove construction. W. F. Dewey. No. 1,312,108; Aug. 5; v. 265; p. 48.
- Burner-cap. R. L. Brown and J. A. Carter. No. 1,293,686; Feb. 11; v. 259; p. 196.
- Burner construction. L. R. and W. W. Churchill. No. 1,295,124; Feb. 25; v. 259; p. 590.
- Burner or heater. A. M. Preiss. No. 1,293,194; Feb. 4; v. 259; p. 51.
- Burner-stand. J. M. Hothersall. No. 1,310,830; July 22; v. 264; p. 617.
- Burner-tip. W. P. Hill. No. 1,304,045; May 20; v. 262; p. 357.
- Burners, Air and gas mixer for gas. N. L. and A. V. Turner. No. 1,305,632; June 3; v. 263; p. 78.
- Burners, Distributor for vapor. W. G. Chausse. No. 1,321,981; Nov. 18; v. 268; p. 420.
- Burners, Holder for oil. P. H. Hamilton. No. 1,324,816; Dec. 16; v. 269; p. 408.
- Burning a vaporous or gaseous fuel, Device for. M. M. Gillam. No. 1,311,443; July 29; v. 264; p. 763.
- Burning explosive gaseous mixtures, Apparatus for. C. E. Lucke. No. 1,313,196; Aug. 12; v. 265; p. 288.
- Burning out invested models. T. W. Maves. No. 1,291,588; Jan. 14; v. 258; p. 398.
- Burnishing-machine. T. Lund. No. 1,303,931; May 20; v. 262; p. 337.
- Burnishing-machine. L. J. Van Guelpen. No. 1,300,059; Apr. 8; v. 261; p. 354.
- Rush or bearing. E. E. A. Sorel. No. 1,300,501; Apr. 15; v. 261; p. 476.
- Bush-puller. L. Klinglesmith. No. 1,321,316; Nov. 11; v. 268; p. 245.
- Bushing. R. H. Royce. No. 1,298,100; Mar. 25; v. 260; p. 593.
- Bushing, Adjustable. D. O. Barrett. No. 1,292,678; Jan. 28; v. 258; p. 716.
- Bushing and pivot, Combined. M. Mohr. No. 1,317,808; Oct. 7; v. 267; p. 28.
- Bushing-blank and making bushings. W. J. Gibbons. No. 1,297,142; Mar. 11; v. 260; p. 334.
- Bushing, Centrifugal-extractor. W. Bartholomew. No. 1,316,076; Sept. 16; v. 266; p. 316.
- Bushing, Expansion. H. Belding. No. 1,304,250; May 20; v. 262; p. 395.
- Bushing for bearings and making same. E. E. Waite. No. 1,309,668; July 15; v. 264; p. 373.
- Bushing, Lead. J. Wilkinson. No. 1,304,230; May 20; v. 262; p. 391.
- Bushing, Oil-filled lead. J. J. Frank. No. 1,304,469; May 20; v. 262; p. 439.
- Bushing-puller. F. X. Atzberger. No. 1,310,270; July 15; v. 264; p. 482.
- Bushing-remover. E. B. Jacobson. No. 1,322,497; Nov. 18; v. 268; p. 518.
- Bushing-remover. R. Simon, J. A. Gauthier, and F. J. Hauser. No. 1,304,109; May 20; v. 262; p. 369.
- Bushings, Apparatus for forming. W. Klocke. No. 1,290,578; Jan. 7; v. 258; p. 136.
- Bushings, Method and apparatus for lining. O. F. Russler. No. 1,321,478; Nov. 11; v. 268; p. 275.
- Bust-support. N. Boland-Pierce. No. 1,316,675; Sept. 23; v. 266; p. 478.
- Butane and propane, Recovery of. J. B. Garner and H. P. Cooper. No. 1,307,353; June 24; v. 263; p. 492.
- Butchering and scalding table. Hog. J. Johnson. No. 1,315,023; Sept. 2; v. 266; p. 101.
- Butcher's block. F. J. Schmitt. No. 1,323,915; Dec. 2; v. 269; p. 130.
- Butt. S. W. Parsons and P. F. King. No. 1,311,243; July 29; v. 264; p. 725.
- Butter-cutter. H. O. J. and H. Boos. No. 1,325,869; Dec. 23; v. 269; p. 621.
- Butter-dispensing apparatus. N. Kavvas and W. K. Zweeres. No. 1,312,547; Aug. 12; v. 265; p. 160.
- Butter-fat gage. E. R. Robinson. No. 1,312,358; Aug. 5; v. 265; p. 94.
- Butter patties, Machine for forming. A. F. Nye. No. 1,322,042; Nov. 18; v. 268; p. 431.
- Butter-patty-forming machine. S. A. Thomas. No. 1,320,293; Oct. 28; v. 267; p. 609.
- Button. L. A. Angle and J. P. Sager. No. 1,303,228; May 13; v. 262; p. 171.
- Button. A. H. Golden. No. 1,297,345; Mar. 18; v. 260; p. 408.
- Button. A. G. Johnson. No. 1,308,079; July 1; v. 264; p. 14.
- Button. A. J. Lobar. No. 1,292,338; Jan. 21; v. 258; p. 613.
- Button. H. C. Mummert. No. 1,306,922; June 17; v. 263; p. 381.
- Button. C. M. Neiss. No. 1,315,390; Sept. 9; v. 266; p. 178.
- Button. R. Seligman. No. 1,319,908; Oct. 28; v. 267; p. 538.
- Button. E. Shantz. No. 1,322,963; Nov. 25; v. 268; p. 656.
- Button. R. R. Siebert. No. 1,318,235; Oct. 7; v. 267; p. 111.
- Button. C. E. Stone. No. 1,292,914; Jan. 28; v. 258; p. 771.
- Button. P. J. Whelan. No. 1,320,592; Nov. 4; v. 268; p. 44.
- Button. F. R. White. No. 1,324,085; Dec. 9; v. 269; p. 207.
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- Button. M. Wiener. No. 1,323,942; Dec. 2; v. 269; p. 135.
- Button-anchor for wearing-apparel. E. W. Flohr. No. 1,316,886; Sept. 23; v. 266; p. 516.
- Button and belt-loop, Combined. C. Osten. No. 1,313,640; Aug. 19; v. 265; p. 388.
- Button and making, Emblematic. E. T. Massey. No. 1,307,870; June 24; v. 263; p. 586.



- Button and necktie-fastener, Collar-. T. Schwartz. No. 1,290,368; Jan. 7; v. 258; p. 85.
- Button and necktie-holder, Combined collar-. O. N. Kelly. No. 1,293,113; Feb. 4; v. 259; p. 33.
- Button and pin therefor. W. H. Phelps. No. 1,310,804; July 22; v. 264; p. 612.
- Button-attaching machine. B. T. Leveque. No. 1,290,253; Jan. 7; v. 258; p. 58.
- Button-attaching machines, Feeding mechanism for. W. E. Elliott. No. 1,313,942; Aug. 26; v. 265; p. 478.
- Button blanks, Making pearl-. H. H. Knott, C. J. Jungbluth, and E. B. Hammer. No. 1,315,673; Sept. 9; v. 266; p. 227.
- Button, Circuit-controlling. W. A. Frederick. No. 1,307,856; June 24; v. 263; p. 584.
- Button, Clasp-. J. A. Bystrom. No. 1,293,327; Feb. 4; v. 259; p. 82.
- Button-clasp. H. J. Stuart. No. 1,290,679; Jan. 7; v. 258; p. 161.
- Button-clasp. H. J. Stuart. No. 1,302,449; Apr. 29; v. 261; p. 931.
- Button, Collar-. J. W. Barger. No. 1,315,902; Sept. 9; v. 266; p. 270.
- Button, Collar-. C. O. Bloomquist. No. 1,317,068; Sept. 23; v. 266; p. 551.
- Button, Collar-. F. Cadder. No. 1,308,696; July 1; v. 264; p. 126.
- Button, Collar-. M. Karabin and J. Skociokh. No. 1,306,850; June 17; v. 263; p. 367.
- Button, Collar-. W. J. Kramb. No. 1,313,996; Aug. 26; v. 265; p. 489.
- Button, Collar-. C. M. Neiss. No. 1,294,144; Feb. 11; v. 259; p. 304.
- Button, Collar-. H. E. Rissinger. No. 1,307,271; June 17; v. 263; p. 444.
- Button, Collar-. J. B. Rock. No. 1,291,158; Jan. 14; v. 258; p. 299.
- Button, Collar-. R. V. Sampson. No. 1,305,938; June 3; v. 263; p. 135.
- Button, Collar-. D. L. Seif. No. 1,293,948; Feb. 11; v. 259; p. 257.
- Button, Collar-. F. O. Vontobel. No. 1,314,837; Sept. 2; v. 266; p. 68.
- Button, Collar-. P. R. Werner. No. 1,296,888; Mar. 11; v. 260; p. 278.
- Button, Combination-. A. M. Turkeltaub. No. 1,306,451; June 10; v. 263; p. 261.
- Button-covering. H. H. Straus. No. 1,302,875; May 6; v. 262; p. 76.
- Button, Cuff-. C. J. Britt. No. 1,295,109; Feb. 25; v. 259; p. 586.
- Button, Cuff-. T. Kochenkoff. No. 1,323,699; Dec. 2; v. 269; p. 89.
- Button, Cuff-. L. E. Ladd. No. 1,297,366; Mar. 18; v. 260; p. 411.
- Button, Cuff-. J. Musil. No. 1,317,722; Oct. 7; v. 267; p. 12.
- Button, Cuff-. M. C. Stearns. No. 1,319,253; Oct. 21; v. 267; p. 391.
- Butter-cutter. R. A. Simpson. No. 1,302,983; May 6; v. 262; p. 96.
- Button, Detachable. G. M. Charles. No. 1,326,323; Dec. 30; v. 269; p. 741.
- Button, Detachable shirt-. L. H. Davis. No. 1,305,072; May 27; v. 262; p. 590.
- Button device. R. Antieau. No. 1,322,219; Nov. 18; v. 268; p. 465.
- Button dispenser, Collar-. J. J. Hoffmann. No. 1,290,197; Jan. 7; v. 258; p. 44.
- Butter-dispensing machine. T. Tripolitis. No. 1,303,131; May 6; v. 262; p. 125.
- Button-fastener. W. B. Carruthers. No. 1,297,321; Mar. 18; v. 260; p. 403.
- Button-fastener. C. J. Dahlgren. No. 1,290,919; Jan. 14; v. 258; p. 244.
- Button-fastener. L. H. Davis. No. 1,291,432; Jan. 14; v. 258; p. 362.
- Button-fastener. L. C. Heller. No. 1,301,435; Apr. 22; v. 261; p. 706.
- Button-fastening. I. B. Johnson. No. 1,323,365; Dec. 2; v. 269; p. 27.
- Button-fastening machine. G. W. Perkins. No. 1,297,726; Mar. 18; v. 260; p. 488.
- Button, Flexible-shank tack-. F. E. Stanley. No. 1,292,913; Jan. 28; v. 258; p. 771.
- Button-form. B. M. Geen. No. 1,305,275; June 3; v. 263; p. 9.
- Button, Garment-. S. W. Cushman. No. 1,298,016; Mar. 25; v. 260; p. 576.
- Button, Garment-. S. W. Cushman. No. 1,325,003; Dec. 16; v. 269; p. 442.
- Button-machine. O. W. Soderstrom and W. Fuhrmann. No. 1,305,570; June 3; v. 263; p. 65.
- Button-making machine. F. G. Neuberth. No. 1,299,763; Apr. 8; v. 261; p. 290.
- Button notch, Collar-. A. Snyder. No. 1,290,672; Jan. 7; v. 258; p. 160.
- Button, Push-. L. P. Hynes. No. 1,316,158; Sept. 16; v. 266; p. 331.
- Button, Removable. A. J. Jacoby. No. 1,318,082; Oct. 7; v. 267; p. 80.
- Button-remover. J. W. Baldwin. No. 1,291,364; Jan. 14; v. 258; p. 345.
- Button-remover. J. W. Baldwin and J. D. Freeman. No. 1,294,600; Feb. 18; v. 259; p. 445.
- Button, Separable. C. J. Callahan and G. H. Roberts. No. 1,321,596; Nov. 11; v. 268; p. 297.
- Button, Separable. A. J. Lobar. No. 1,302,390; Apr. 29; v. 261; p. 918.
- Button, Separable cuff link-. C. D. Lyons. No. 1,314,599; Sept. 2; v. 266; p. 24.
- Button, Shoe-. W. F. Devine. No. 1,292,588; Jan. 28; v. 258; p. 695.
- Button-turning machines, Backing and extracting tool for. H. Hastings. No. 1,321,910; Nov. 18; v. 268; p. 407.
- Buttons, Finishing-machine for emblematic. E. T. Massey. No. 1,325,526; Dec. 23; v. 269; p. 557.
- Buttons, Machine for making celluloid. O. Cohn. No. 1,296,767; Mar. 11; v. 260; p. 251.
- Buttons, Machine for use in assorting. H. G. Reustle and W. W. Cannon. No. 1,303,594; May 13; v. 262; p. 236.
- Buttons, Mounting for control-. J. V. Whitbeck. No. 1,299,644; Apr. 8; v. 261; p. 262.
- Buttons or blanks, Treating pearl. C. B. Davis. No. 1,312,723; Aug. 12; v. 265; p. 195.
- Buttons, Process and apparatus for making. S. Skolnick. No. 1,318,700; Oct. 14; v. 267; p. 260.
- Buttons to fabrics, Means for securing. W. L. Barron. No. 1,316,012; Sept. 16; v. 266; p. 305.
- Buttoner, Shoe and glove. H. B. Laughlin. No. 1,291,563; Jan. 14; v. 258; p. 392.
- Buttonhole-gage. M. E. Walter. No. 1,300,900; Apr. 15; v. 261; p. 560.
- Buttonhole-machine loader. H. C. Miller. No. 1,300,446; Apr. 15; v. 261; p. 464.
- Buttonhole-strip. L. Morinsky. No. 1,323,541; Dec. 2; v. 269; p. 60.
- Buttonholes, Machine for cutting. S. S. Amdursky and S. Rubinfeld. No. 1,316,215; Sept. 16; v. 266; p. 342.
- Buzzer. J. A. Wotton. No. 1,292,207; Jan. 21; v. 258; p. 582.
- Buzzer apparatus for producing whistle-simulating sounds. W. C. Roe. No. 1,303,117; May 6; v. 262; p. 122.
- Cab-signal and train-control system. M. H. Loughridge. No. 1,299,595; Apr. 8; v. 261; p. 251.
- Cab signal system. R. J. Hewett. No. 1,295,896; Mar. 4; v. 260; p. 18.
- Cabinet. N. Drugociu. No. 1,295,137; Feb. 25; v. 259; p. 592.
- Cabinet. F. X. Krabach. No. 1,294,118; Feb. 11; v. 259; p. 298.
- Cabinet. D. Stewart. No. 1,295,232; Feb. 25; v. 259; p. 614.
- Cabinet. C. T. Stukenberg. No. 1,316,118; Sept. 16; v. 266; p. 324.
- Cabinet, Adding-machine. J. M. Myers. No. 1,308,441; July 1; v. 264; p. 79.
- Cabinet and automobile-repair trundle-platform, Combined. F. A. Mueller. No. 1,297,224; Mar. 11; v. 260; p. 352.
- Cabinet and refrigerator, Combined kitchen-. T. J. Polk. No. 1,295,005; Mar. 4; v. 260; p. 42.
- Cabinet and screen, Chiropodist's. K. E. Fuller. No. 1,301,248; Apr. 22; v. 261; p. 669.
- Cabinet and sink, Combined kitchen. F. Lavan. No. 1,296,670; Mar. 11; v. 260; p. 228.
- Cabinet, Bath-. I. M. Bean. No. 1,301,029; Apr. 15; v. 261; p. 588.
- Cabinet boards, Counterbalancing device for wall-. E. L. Gillespie. No. 1,300,950; Apr. 15; v. 261; p. 570.
- Cabinet, Box-. B. L. Hines and M. G. Johnson. No. 1,293,434; Feb. 4; v. 259; p. 107.
- Cabinet, Bread-raising. A. O. Burkhardt. No. 1,325,506; Dec. 23; v. 269; p. 553.
- Cabinet, Camping-. S. B. Twiss. No. 1,326,809; Dec. 30; v. 269; p. 834.
- Cabinet, Combination drawing-. E. M. Wilson. No. 1,322,385; Nov. 18; v. 268; p. 496.
- Cabinet, Commodity-. J. H. Boye. No. 1,294,761; Feb. 18; v. 259; p. 483.
- Cabinet cover, Gramophone-. F. Myers. No. 1,326,771; Dec. 30; v. 269; p. 826.
- Cabinet-cover-supporting device. L. K. Scotford. No. 1,324,435; Dec. 9; v. 269; p. 274.
- Cabinet, Culinary. M. C. and D. Powell. No. 1,316,254; Sept. 16; v. 266; p. 350.
- Cabinet, Disappearing towel-. R. B. Cahill. No. 1,312,385; Aug. 5; v. 265; p. 99.
- Cabinet, Dispensing-. A. F. Stormer. No. 1,322,072; Nov. 18; v. 268; p. 437.
- Cabinet-drawer and supporting-guide therefor. G. L. Probst. No. 1,318,919; Oct. 14; v. 267; p. 301.
- Cabinet, Filing-. W. W. Dismukes. No. 1,303,778; May 13; v. 262; p. 270.
- Cabinet, Fire-resisting. E. H. Schriefer. No. 1,294,838; Feb. 18; v. 259; p. 501.
- Cabinet, Flash-light. F. E. Cooper. No. 1,308,334; July 1; v. 264; p. 60.
- Cabinet for pan-closets, Automatic closure and disinfecting seat-. G. E. Kinch. No. 1,296,666; Mar. 11; v. 260; p. 227.



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- Cabinet for phonographic disk records, Storage. J. F. Culverwell. No. 1,311,322; July 29; v. 264; p. 741.
- Cabinet for sound-reproducing machines. B. Rubin. No. 1,315,989; Sept. 16; v. 266; p. 301.
- Cabinet for stores and shops. A. B. Cough. No. 1,291,420; Jan. 14; v. 258; p. 360.
- Cabinet for typograph-matrices and the like. C. Horix. No. 1,306,257; June 10; v. 263; p. 226.
- Cabinet, Grocery-. C. R. Mason and E. W. Trigg. No. 1,301,864; Apr. 29; v. 261; p. 819.
- Cabinet, Heat-resisting. R. H. Dick and P. W. Wigginton. No. 1,325,624; Dec. 23; v. 269; p. 575.
- Cabinet, Ice-cream. C. Nelson. No. 1,321,120; Nov. 11; v. 268; p. 207.
- Cabinet, Ironing-. A. Jenkins. No. 1,298,216; Mar. 25; v. 260; p. 619.
- Cabinet, Kitchen-. H. W. Bertram. No. 1,305,248; June 3; v. 263; p. 4.
- Cabinet, Kitchen-. C. W. Grubbs. No. 1,291,486; Jan. 14; v. 258; p. 375.
- Cabinet, Kitchen-. B. F. Little. No. 1,316,489; Sept. 16; v. 266; p. 394.
- Cabinet, Kitchen-. W. F. McLaughlin. No. 1,303,697; May 13; v. 262; p. 255.
- Cabinet, Mail-. W. W. Long. No. 1,316,586; Sept. 23; v. 266; p. 461.
- Cabinet, Medicine-. H. G. Albrecht. No. 1,307,949; June 24; v. 263; p. 601.
- Cabinet, Metallic kitchen-. C. A. Bernhard. No. 1,296,908; Mar. 11; v. 260; p. 283.
- Cabinet, Music-sheet. W. A. McCord. No. 1,294,685; Feb. 18; v. 259; p. 465.
- Cabinet, Phonograph-. N. Steiner. No. 1,323,331; Dec. 2; v. 269; p. 20.
- Cabinet, Phonograph-. F. L. Young. No. 1,297,977; Mar. 18; v. 260; p. 542.
- Cabinet, Phonograph-disk-record. A. H. Haag. No. 1,323,050; Nov. 25; v. 268; p. 673.
- Cabinet, Phonograph-disk-record-holding. W. M. Ward. No. 1,310,814; July 22; v. 264; p. 614.
- Cabinet, Phonograph-record. J. F. Biggs. No. 1,325,617; Dec. 23; v. 269; p. 673.
- Cabinet, Phonograph-record. A. E. Chernack. No. 1,321,010; Nov. 4; v. 268; p. 123.
- Cabinet, Phonographic-disk-record. A. H. Haag. No. 1,323,219; Nov. 25; v. 268; p. 706.
- Cabinet, Phonographic-disk-record. C. D. McVay. No. 1,302,943; May 6; v. 262; p. 88.
- Cabinet, Record-. M. J. Duffy. No. 1,322,681; Nov. 25; v. 268; p. 604.
- Cabinet, Record-. J. A. and M. R. Sanford. No. 1,303,731; May 13; v. 262; p. 261.
- Cabinet, Record-. G. M. Schaff. No. 1,302,719; May 6; v. 262; p. 45.
- Cabinet, Record-. E. S. Votey. No. 1,314,481; Aug. 26; v. 265; p. 582.
- Cabinet, Roller-towel. F. O. Hendrick. No. 1,297,688; Mar. 18; v. 260; p. 480.
- Cabinet, Safety cash-. J. M. Gale. No. 1,307,581; June 24; v. 263; p. 534.
- Cabinet, Sanitary closet-. G. D. McIlvoy. No. 1,312,192; Aug. 5; v. 265; p. 64.
- Cabinet, Sanitary razor-strop. J. R. Johnson. No. 1,297,568; Mar. 18; v. 260; p. 454.
- Cabinet, Sectional. E. Stuck. No. 1,308,647; July 1; v. 264; p. 117.
- Cabinet, Sewing-. J. C. Byers. No. 1,302,305; Apr. 29; v. 261; p. 902.
- Cabinet, Sheet-metal sectional. W. O. Gottwals. No. 1,294,087; Feb. 11; v. 259; p. 290.
- Cabinet, Shoe-polishing. W. F. Hirschman. No. 1,320,392; Nov. 4; v. 268; p. 7.
- Cabinet, Spectacle-. C. G. Herrick. (Reissue.) No. 1,459,2; Feb. 18; v. 259; p. 559.
- Cabinet, Spool-holding. B. H. Berry. No. 1,323,241; Dec. 2; v. 269; p. 3.
- Cabinet-lid support, Automatic. F. L. Casper. No. 1,310,647; July 22; v. 264; p. 583.
- Cabinet, Talking-machine. C. J. Bousfield. No. 1,291,741; Jan. 21; v. 258; p. 465.
- Cabinet, Talking-machine. M. Davis. No. 1,290,720; Jan. 7; v. 258; p. 172.
- Cabinet, Telephone-. W. J. Phillips. No. 1,299,506; Apr. 8; v. 261; p. 230.
- Cabinet, Ticket-. O. B. Arntzen. No. 1,306,796; June 17; v. 263; p. 357.
- Cabinet, Towel-. W. W. Bagley. No. 1,305,048; May 27; v. 262; p. 586.
- Cabinet, Towel-. A. A. Olson. No. 1,295,578; Feb. 25; v. 259; p. 694.
- Cabinet, Towel-. O. Schwimmer. No. 1,291,188; Jan. 14; v. 258; p. 305.
- Cabinet, Towel-. H. Solomon. No. 1,299,630; Apr. 8; v. 261; p. 259.
- Cabinet, Train-order. P. S. McCroskey. No. 1,291,046; Jan. 14; v. 258; p. 273.
- Cabinet, Type-writer. W. R. C. Rowan. No. 1,300,780; Apr. 15; v. 261; p. 535.
- Cabinet, Unit metal transfer-. P. H. Yawman. No. 1,292,946; Jan. 28; v. 258; p. 779.
- Cabinets, Automatic mechanism for raising the covers of music-. W. C. Desmond. No. 1,314,950; Sept. 2; v. 266; p. 87.
- Cabinets, furniture, &c., Base for filing-. R. G. Bullock and G. Anderson. No. 1,310,322; July 15; v. 264; p. 491.
- Cabinets, Table-top for kitchen-. H. J. Ritter. No. 1,320,177; Oct. 28; v. 267; p. 587.
- Cable and wire clamp. G. E. Rohmer. No. 1,308,869; July 8; v. 264; p. 186.
- Cable attachment. C. J. Kienzle. No. 1,315,969; Sept. 16; v. 266; p. 297.
- Cable-clamp. J. Kelley. No. 1,298,052; Mar. 25; v. 260; p. 583.
- Cable-clamp. F. H. Lippincott. No. 1,318,501; Oct. 14; v. 267; p. 222.
- Cable-clamping device. W. T. Goddard. No. 1,305,713; June 3; v. 263; p. 91.
- Cable-climbing device for miners. C. H. Morgan. No. 1,311,084; July 22; v. 264; p. 663.
- Cable-clip. F. H. Strom. No. 1,298,118; Mar. 25; v. 260; p. 597.
- Cable-connector. J. F. Conrad. No. 1,316,688; Sept. 23; v. 266; p. 481.
- Cable conveyor. C. G. Dellenbach. No. 1,321,811; Nov. 18; v. 268; p. 389.
- Cable-coupling. W. S. Eaton. No. 1,293,383; Feb. 4; v. 259; p. 95.
- Cable-coupling. A. N. Sammarone. No. 1,312,455; Aug. 5; v. 265; p. 113.
- Cable-gripping mechanism for overhead conveyer systems. E. Hanak. No. 1,297,681; Mar. 18; v. 260; p. 478.
- Cable-guide. H. Ewoldt. No. 1,308,667; July 1; v. 264; p. 121.
- Cable-guide roller. A. Steinmasel. No. 1,321,568; Nov. 11; v. 268; p. 292.
- Cable-hanger. J. Blackburn. No. 1,308,978; July 8; v. 264; p. 206.
- Cable-hanger. J. Blackburn. No. 1,308,979; July 8; v. 264; p. 207.
- Cable-hanger. C. B. Hughes. No. 1,315,225; Sept. 9; v. 266; p. 147.
- Cable-hanger. D. F. Trachte. No. 1,308,969; July 8; v. 264; p. 204.
- Cable-hanger distributor, Automatic. W. Nick. No. 1,299,233; Apr. 1; v. 261; p. 136.
- Cable-head. J. W. Dickson. No. 1,305,591; June 3; v. 263; p. 70.
- Cable-ling compressor. C. W. Hinnershitz. No. 1,321,208; Nov. 11; v. 268; p. 224.
- Cable-socket. H. M. Lamb. No. 1,297,187; Mar. 11; v. 260; p. 344.
- Cable-splice. N. K. Bowman. No. 1,304,534; May 27; v. 262; p. 490.
- Cable-splices, Junction-box for. H. G. Freeman. No. 1,300,213; Apr. 8; v. 261; p. 388.
- Cable-support. D. A. Tripp. No. 1,296,571; Mar. 4; v. 260; p. 169.
- Cable suspension. H. J. Peele. No. 1,301,496; Apr. 22; v. 261; p. 717.
- Cables, Binding-post for electric. E. B. Nowosielski. No. 1,305,153; May 27; v. 262; p. 605.
- Cables, chains, and the like, Cutting device for. G. E. Watt. No. 1,313,435; Aug. 19; v. 265; p. 349.
- Cables for silos and the like, Saddle for anchoring. F. J. Van Cott. No. 1,311,141; July 22; v. 264; p. 674.
- Cables, Manufacture of electric. C. J. Beaver and E. A. Claremont. No. 1,298,644; Apr. 1; v. 261; p. 5.
- Cables of trapezoidal sections, Machine for the manufacture of. V. Le Carpentier. No. 1,318,888; Oct. 14; v. 267; p. 296.
- Cables or wires, Process and means for connecting. R. A. Bousson. No. 1,318,961; Oct. 14; v. 267; p. 310.
- Cables, stay-wires, &c., Stream-line shield for. R. H. Upton. No. 1,324,014; Dec. 2; v. 269; p. 149.
- Cables, Suspension device for equalizing the strain on elevator-. J. E. Evans. No. 1,323,357; Dec. 2; v. 269; p. 25.
- Cables, wires, and the like upon aircraft, Device for attachment of. T. Sopwith. No. 1,299,049; Apr. 1; v. 261; p. 100.
- Cableway apparatus, Track-layer for. J. R. Slattery and T. S. Miller. No. 1,325,336; Dec. 16; v. 269; p. 505.
- Cableway-carriage. W. M. Venable. No. 1,322,074; Nov. 18; v. 268; p. 437.
- Cableway, Combination traveling-crane. W. van den Heuvel. No. 1,325,818; Dec. 23; v. 269; p. 611.
- Cadre or juggler's frame. S. N. Stewart. No. 1,299,056; Apr. 1; v. 261; p. 101.
- Cafeteria-chairs, Cruet attachment for. G. F. Corby. No. 1,301,913; Apr. 29; v. 261; p. 829.
- Cage. M. F. Williams. No. 1,322,210; Nov. 18; v. 268; p. 463.
- Cage, Ball or roller bearing. L. Rouanet. No. 1,320,096; Oct. 28; v. 267; p. 573.
- Cage-fastening. E. B. Campbell. No. 1,290,906; Jan. 14; v. 258; p. 240.
- Cage, Portable jail-. J. K. Barcroft. No. 1,320,826; Nov. 4; v. 268; p. 88.
- Cage, Roller-bearing. T. V. Buckwalter. No. 1,295,112; Feb. 25; v. 259; p. 587.
- Cage with locking space-bars. C. S. Lockwood. No. 1,318,092; Oct. 7; v. 267; p. 82.
- Caisson. Concrete substructure. J. Spelman. No. 1,294,556; Feb. 18; v. 259; p. 435.



- Cake-hanger. T. L. Green. No. 1,304,309; May 20; v. 262; p. 407.
- Cake, Impression-. J. H. Downie. No. 1,303,545; May 13; v. 262; p. 228.
- Cake-stand, Turning. W. H. Dambruch. No. 1,297,802; Mar. 18; v. 260; p. 505.
- Cakes, Automatic machine for making. E. R. Knott. No. 1,326,067; Dec. 23; v. 269; p. 657.
- Calamine, Paste. J. H. Wood. No. 1,308,136; July 1; v. 264; p. 24.
- Calcing alunite. H. F. Chappell. No. 1,317,686; Oct. 7; v. 267; p. 5.
- Calcing or treating granular material. C. D. McCourt. No. 1,291,965; Jan. 21; v. 258; p. 523.
- Calcium carbid, Manufacture of. F. M. Becket. No. 1,292,386; Jan. 21; v. 258; p. 624.
- Calcium carbid, Manufacture of. F. M. Becket. No. 1,292,387; Jan. 21; v. 258; p. 624.
- Calcium carbid, Manufacture of. F. M. Becket. No. 1,310,465; July 22; v. 264; p. 549.
- Calcium cyanamid, Apparatus for making. G. E. Cox. No. 1,317,756; Oct. 7; v. 267; p. 18.
- Calcium cyanamid, Process and apparatus for making. G. E. Cox. No. 1,292,715; Jan. 28; v. 258; p. 725.
- Calcium or other metal nitrocarbid, Making. J. H. Reid. No. 1,297,246; Mar. 11; v. 260; p. 357.
- Calculating and money-paying machine. M. H. Mann and A. H. Hawley. No. 1,298,751; Apr. 1; v. 261; p. 31.
- Calculating device. C. T. Osterberg. No. 1,310,961; July 22; v. 264; p. 640.
- Calculating device. O. M. Kile. No. 1,304,781; May 27; v. 262; p. 536.
- Calculating-machine. W. O. J. Andersson. No. 1,309,872; July 15; v. 264; p. 410.
- Calculating-machine. W. O. J. Andersson. No. 1,310,852; July 22; v. 264; p. 621.
- Calculating-machine. C. Birth. No. 1,318,641; Oct. 14; v. 267; p. 248.
- Calculating-machine. A. Bontempi. No. 1,302,501; May 6; v. 262; p. 5.
- Calculating-machine. S. E. Carlin. No. 1,311,041; July 22; v. 264; p. 655.
- Calculating-machine. S. E. Carlin. No. 1,312,018; Aug. 5; v. 265; p. 31.
- Calculating-machine. S. E. Carlin. No. 1,313,517; Aug. 19; v. 265; p. 364.
- Calculating-machine. H. E. Goldberg. No. 1,298,198; Mar. 25; v. 260; p. 615.
- Calculating-machine. H. Kuentzler. No. 1,305,124; May 27; v. 262; p. 599.
- Calculating-machine. G. H. Lyle. No. 1,324,561; Dec. 9; v. 269; p. 298.
- Calculating-machine. O. Malcher. No. 1,318,395; Oct. 14; v. 267; p. 201.
- Calculating-machine. O. Malcher. No. 1,318,396; Oct. 14; v. 267; p. 202.
- Calculating-machine. O. Malcher. No. 1,308,397; Oct. 14; v. 267; p. 202.
- Calculating-machine. J. F. Mays. No. 1,301,073; Apr. 15; v. 261; p. 599.
- Calculating-machine. J. F. Mays. No. 1,309,535; July 8; v. 264; p. 310.
- Calculating-machine. A. S. Milinowski. No. 1,310,204; July 15; v. 264; p. 470.
- Calculating-machine. J. R. Monroe. No. 1,306,606; June 10; v. 263; p. 289.
- Calculating-machine. A. Pentecost. No. 1,296,693; Mar. 11; v. 260; p. 233.
- Calculating-machine. G. L. Plumley. No. 1,323,548; Dec. 2; v. 269; p. 62.
- Calculating-machine. A. F. Poole. No. 1,294,157; Feb. 11; v. 259; p. 307.
- Calculating-machine. A. F. Poole. No. 1,296,119; Mar. 4; v. 260; p. 69.
- Calculating-machine. A. F. Poole. No. 1,301,318; Apr. 22; v. 261; p. 684.
- Calculating machine. A. F. Poole. No. 1,311,710; July 29; v. 264; p. 812.
- Calculating-machine. A. F. Poole. No. 1,314,094; Aug. 26; v. 265; p. 507.
- Calculating-machine. A. F. Poole. No. 1,318,587; Oct. 14; v. 267; p. 238.
- Calculating-machine. W. P. Quentell. No. 1,293,544; Feb. 4; v. 259; p. 132.
- Calculating-machine. R. von Reppert. No. 1,302,250; Apr. 29; v. 261; p. 891.
- Calculating-machine. M. Schuppe. No. 1,308,117; July 1; v. 264; p. 20.
- Calculating-machine. M. Schuppe. No. 1,323,381; Dec. 2; v. 269; p. 30.
- Calculating-machine. O. Thieme. No. 1,292,537; Jan. 28; v. 258; p. 681.
- Calculating-machine. O. Thieme. No. 1,293,981; Feb. 11; v. 259; p. 265.
- Calculating-machine. O. Thieme. No. 1,317,604; Sept. 30; v. 266; p. 689.
- Calculating-machine. O. Thieme. No. 1,321,260; Nov. 11; v. 268; p. 234.
- Calculating-machine. J. H. Trimble and C. F. Fink. No. 1,326,428; Dec. 30; v. 269; p. 761.
- Calculating-machine. J. A. V. Turck. No. 1,316,523; Sept. 16; v. 266; p. 401.
- Calculating machine. J. C. Wahl. No. 1,311,729; July 29; v. 264; p. 816.
- Calculating-machine. J. C. Wahl. No. 1,311,730; July 29; v. 264; p. 817.
- Calculating-machine. J. C. Wahl. No. 1,314,105; Aug. 26; v. 265; p. 510.
- Calculating-machine. C. Wales. No. 1,303,214; May 6; v. 262; p. 140.
- Calculating-machine. J. C. Wahl. No. 1,317,466; Sept. 30; v. 266; p. 663.
- Calculating-machine. J. C. Wahl. No. 1,323,206; Nov. 25; v. 268; p. 703.
- Calculating-machine. J. C. Wahl. No. 1,325,819; Dec. 23; v. 269; p. 611.
- Calculating-machine. E. C. Walter. No. 1,325,969; Dec. 23; v. 269; p. 639.
- Calculating-machine actuating mechanism. J. F. Mays. No. 1,323,894; Dec. 2; v. 269; p. 126.
- Calculating-machine, Algebraic-total. H. E. Goldberg. No. 1,296,073; Mar. 4; v. 260; p. 59.
- Calculating-machine attachment. C. F. Hozier. No. 1,291,525; Jan. 14; v. 258; p. 383.
- Calculating-machine label-holder. J. E. Straub. No. 1,292,134; Jan. 21; v. 258; p. 565.
- Calculating-machine locking attachment. O. Thieme. No. 1,294,725; Feb. 18; v. 259; p. 474.
- Calculating-machine quotient-registering mechanism. J. F. Mays. No. 1,297,711; Mar. 18; v. 260; p. 485.
- Calculating-machines, Automatic item-counter for. J. C. Wahl. No. 1,317,467; Sept. 30; v. 266; p. 663.
- Calculating-machines, Overthrow-check for. J. F. Mays. No. 1,315,144; Sept. 2; v. 266; p. 122.
- Calculating-machines, Revolution-counting mechanism for. K. V. Rudin. No. 1,308,510; July 1; v. 264; p. 91.
- Calculating-machines, Step-by-step mechanism in. K. V. Rudin. No. 1,312,002; Aug. 5; v. 265; p. 28.
- Calculator. V. A. Mayer. No. 1,312,797; Aug. 12; v. 265; p. 210.
- Calculator. A. Rechnitzer. No. 1,292,513; Jan. 28; v. 258; p. 675.
- Calculator, Angle. W. N. Reazor, Jr. No. 1,302,590; May 6; v. 262; p. 20.
- Calculator-keyboard-locking means. W. Fuhrmann and E. M. Squarey. No. 1,296,379; Mar. 4; v. 260; p. 127.
- Calculator, Mechanical. T. A. McCarthy. No. 1,302,941; May 6; v. 262; p. 87.
- Calculator special keys, Cross-lock for. W. Fuhrmann and E. M. Squarey. No. 1,293,750; Feb. 11; v. 259; p. 211.
- Calculators. Signal printing means for. W. Fuhrmann. No. 1,313,177; Aug. 12; v. 265; p. 284.
- Caldrons, Method of and apparatus for handling. F. G. Wheeler. No. 1,318,634; Oct. 14; v. 267; p. 247.
- Calendar. A. Aborn. No. 1,321,498; Nov. 11; v. 268; p. 279.
- Calendar. E. G. Anthony. No. 1,324,330; Dec. 9; v. 269; p. 253.
- Calendar. C. B. Cook. No. 1,310,905; July 22; v. 264; p. 630.
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- Camera. J. M. Wade. No. 1,295,395; Feb. 25; v. 259; p. 651.
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- Camera and projector, Combined motion-picture. V. M. Harris. No. 1,291,865; Jan. 21; v. 258; p. 495.
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- Camera attachment. M. L. Dumarest and C. D. Fischer. No. 1,326,038; Dec. 23; v. 269; p. 652.
- Camera attachment. W. Evers. No. 1,294,433; Feb. 18; v. 259; p. 408.
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- Cameras, White-dissolve mechanism for motion-picture. J. E. Leonard. No. 1,298,521; Mar. 25; v. 260; p. 684.
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- Camphor, Production of synthetic. R. L. Andreau. No. 1,326,248; Dec. 30; v. 269; p. 728.
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|-------------------|-----------------------|
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| Garbage-can.      | Paint-dispensing can. |
| Gasolene-can.     | Safety-can.           |
| Jacketed can.     | Syrup-can.            |
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- Can-bodies, Apparatus for forming and flanging. J. A. Gray. No. 1,315,114; Sept. 2; v. 266; p. 117.
- Can-bodies, Apparatus for re-forming. J. A. Gray. No. 1,306,810; June 17; v. 263; p. 360.
- Can-bodies, Machine for soldering seams of. J. Heine, Jr. No. 1,318,871; Oct. 14; v. 267; p. 292.
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- Can-body-flanging machine. F. Rudolphi. No. 1,318,412; Oct. 14; v. 267; p. 204.
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- Can-brushing machine. C. T. Small. No. 1,312,589; Aug. 12; v. 265; p. 170.
- Can cleaning and turning device. F. Pilley. No. 1,299,927; Apr. 8; v. 261; p. 326.
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- Can-closure. E. F. Hulbert. No. 1,319,081; Oct. 21; v. 267; p. 357.
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- Can-cooking machine. J. S. Baker. No. 1,315,073; Sept. 2; v. 266; p. 110.
- Can-cover. C. A. Christ. No. 1,316,767; Sept. 23; v. 266; p. 495.
- Can-cover-applying mechanism. L. W. Lombard. No. 1,296,537; Mar. 4; v. 260; p. 161.
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- Can cover, Sardine or other. A. H. Roysen. No. 1,302,297; Apr. 29; v. 261; p. 900.
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- Can-end lining and marking machine. W. H. Stabler and E. E. Caldwell. No. 1,318,416; Oct. 14; v. 267; p. 205.
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- Can-end-sorting apparatus. J. A. Gray. No. 1,308,063; July 1; v. 264; p. 10.
- Can ends, Apparatus for applying ring-liners to. A. Johnson. No. 1,299,188; Apr. 1; v. 261; p. 131.
- Can ends, Apparatus for feeding, sorting, and distributing. J. H. Murch. No. 1,310,837; July 22; v. 264; p. 618.
- Can ends, Gasket-lining. I. D. Thornburgh. No. 1,318,935; Oct. 14; v. 267; p. 304.
- Can ends, Machine for removing. R. M. Huddleston. No. 1,319,394; Oct. 21; v. 267; p. 417.
- Can-feeding device. R. O. Wilson and A. D. Sumner. No. 1,301,348; Apr. 22; v. 261; p. 690.
- Can filler, Milk-. C. R. Osteen. No. 1,318,581; Oct. 14; v. 267; p. 237.
- Can-filling machine. J. C. Porter. No. 1,315,403; Sept. 9; v. 266; p. 180.
- Can-filling machine. E. L. Price. No. 1,290,656; Jan. 7; v. 258; p. 155.
- Can forming and heading machine. E. D. Anderson. No. 1,315,000; Sept. 2; v. 266; p. 97.
- Can-handling mechanism. F. H. Biggs. No. 1,290,055; Jan. 7; v. 258; p. 10.
- Can-heading-machine cover-feed. J. Brenzinger. No. 1,292,695; Jan. 28; v. 258; p. 720.
- Can-heading machines, Assembling and feeding device for. J. Brenzinger. No. 1,306,744; June 17; v. 263; p. 348.
- Can-heading tool. J. Graves. No. 1,324,447; Dec. 9; v. 269; p. 276.
- Can-holder. H. M. Cheek. No. 1,307,482; June 24; v. 263; p. 516.
- Can, Ice-cream. G. A. Wilson. No. 1,303,751; May 13; v. 262; p. 263.
- Can-making machine. A. Lokan. No. 1,317,929; Oct. 7; v. 267; p. 51.
- Can-opener. M. M. Bet. No. 1,307,892; June 24; v. 263; p. 590.
- Can-opener. P. Cheselka. No. 1,297,797; Mar. 18; v. 260; p. 504.
- Can-opener. H. H. Crawford. No. 1,323,019; Nov. 25; v. 268; p. 667.
- Can-opener. L. M. Ferguson. No. 1,311,334; July 29; v. 264; p. 743.
- Can-opener. J. F. Franke. No. 1,323,852; Dec. 2; v. 269; p. 118.
- Can-opener. E. E. Hardy. No. 1,291,860; Jan. 21; v. 258; p. 494.
- Can-opener. F. Hibner. No. 1,301,128; Apr. 22; v. 261; p. 645.
- Can-opener. H. E. Hoke. No. 1,317,134; Sept. 23; v. 266; p. 563.
- Can-opener. M. Lev, Jr. No. 1,307,301; June 17; v. 263; p. 449.
- Can-opener. C. A. Lefevre. No. 1,324,455; Dec. 9; v. 269; p. 278.
- Can-opener. B. F. Lung. No. 1,319,597; Oct. 21; v. 267; p. 456.
- Can-opener. E. E. Perrier. No. 1,305,929; June 3; v. 263; p. 133.
- Can-opener. C. Sonnemann. No. 1,309,224; July 8; v. 264; p. 252.
- Can-opener. J. P. Sweeney. No. 1,314,226; Aug. 26; v. 265; p. 533.
- Can-opener. H. W. Wiley. No. 1,311,028; July 22; v. 264; p. 653.
- Can-opener. W. L. Wilson. No. 1,309,508; July 8; v. 264; p. 304.
- Can opener and closure. C. C. Redmond. No. 1,316,508; Sept. 16; v. 266; p. 398.
- Can opener and closure. J. A. Whitaker. No. 1,319,981; Oct. 28; v. 267; p. 551.
- Can opener and sealer. C. E. Jordan. No. 1,295,902; Mar. 4; v. 260; p. 19.
- Can opener and sealer. R. G. Thompson. No. 1,307,940; June 24; v. 263; p. 599.
- Can-opener, Mechanical. J. Anderson and F. Bergandorf. No. 1,326,707; Dec. 30; v. 269; p. 814.
- Can-opening-machine holder. C. Campbell and A. H. Ford. No. 1,296,621; Mar. 11; v. 260; p. 217.
- Can perforator and cover. M. D. Coffman. No. 1,295,004; Feb. 18; v. 259; p. 538.
- Can-pouring spout. J. Carmichael. No. 1,299,913; Apr. 8; v. 261; p. 323.
- Can-punch. P. Mullane. No. 1,295,353; Feb. 25; v. 259; p. 641.
- Can-puncturer. A. L. Schwartzberg. No. 1,315,339; Sept. 9; v. 266; p. 168.
- Can receiving and piercing device. N. C. and C. S. Brown. No. 1,295,425; Feb. 25; v. 259; p. 658.
- Can receptacle and opener. J. D. Lauerman. No. 1,307,908; June 24; v. 263; p. 593.
- Can-sealing composition. A. Gilbert and C. E. Vander Hoof. No. 1,323,752; Dec. 2; v. 269; p. 99.
- Can-seaming machine. F. W. J. H., and C. B. Burpee. No. 1,293,694; Feb. 11; v. 259; p. 198.
- Can-server. C. Vall. No. 1,311,669; July 29; v. 264; p. 805.
- Can-server. C. Vall. No. 1,316,122; Sept. 16; v. 266; p. 324.
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- Can-topping machine. P. W. Fleischer. No. 1,320,749; Nov. 4; v. 268; p. 73.
- Can-washing apparatus. W. A. Erickson. No. 1,303,186; May 6; v. 262; p. 135.
- Can-washing machine. J. F. Perkins. No. 1,316,641; Sept. 23; v. 266; p. 471.
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- Cans, Apparatus for and method of filling. W. H. Manns. No. 1,303,093; May 6; v. 262; p. 117.
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- Cans, Machine for double-seaming. E. R. Lowerree and G. F. Jackson. No. 1,320,700; Nov. 4; v. 268; p. 63.
- Cans, Machine for opening and refinishing. M. G. Clymer and A. E. Ritchey. No. 1,317,001; Sept. 23; v. 266; p. 538.
- Cans, Machine for seaming heads or ends on. P. Kruse. No. 1,313,998; Aug. 26; v. 265; p. 489.
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- Canning and drying apparatus. J. A. Little and C. P. Blum. No. 1,301,286; Apr. 22; v. 261; p. 678.
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- Car-coupling, Transition. W. McConway, Jr. and W. Kelso. No. 1,309,293; July 8; v. 264; p. 265.
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- Car, Cycle-. K. Hino. No. 1,306,483; June 10; v. 263; p. 267.
- Car-door. H. D. Ehle. No. 1,299,312; Apr. 1; v. 261; p. 158.
- Car-door. M. J. Flannery. No. 1,325,240; Dec. 16; v. 269; p. 487.
- Car-door. R. W. Monk. No. 1,298,764; Apr. 1; v. 261; p. 35.
- Car-door. W. Sleeper. No. 1,305,018; May 27; v. 262; p. 580.
- Car-door. V. B. Sturtsman. No. 1,291,240; Jan. 14; v. 258; p. 317.
- Car-door. C. C. Thorpe. No. 1,316,203; Sept. 16; v. 266; p. 340.
- Car door, Box-. A. E. Derbyshire. No. 1,300,130; Apr. 8; v. 261; p. 370.
- Car-door brace. A. E. Stark. No. 1,297,269; Mar. 11; v. 260; p. 362.
- Car-door bracket. F. Mathews. No. 1,322,037; Nov. 18; v. 268; p. 430.
- Car-door connection. G. E. Thackray. No. 1,322,653; Nov. 25; v. 268; p. 599.
- Car-door construction. R. B. Irwin. No. 1,297,854; Mar. 18; v. 260; p. 515.
- Car-door construction. L. G. Miller and E. C. Long. No. 1,319,786; Oct. 28; v. 267; p. 515.
- Car-door-control mechanism, Railway-. D. Hindahl. No. 1,308,422; July 1; v. 264; p. 76.
- Car-door-controlling device. C. P. Cass. No. 1,317,549; Sept. 30; v. 266; p. 678.
- Car-door-controlling device. W. V. Turner. No. 1,297,519; Mar. 18; v. 260; p. 444.
- Car-door fastener. F. Mathews. No. 1,322,499; Nov. 18; v. 268; p. 518.
- Car-door fastener. D. S. Williams. No. 1,294,009; Feb. 11; v. 259; p. 272.
- Car-door fastening. W. B. Gregg. No. 1,308,779; July 8; v. 264; p. 169.
- Car door, Freight-. K. R. Koskinen. No. 1,308,955; July 8; v. 264; p. 202.
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- Car door, Grain-. R. C. Leitch. No. 1,308,791; July 8; v. 264; p. 171.
- Car door, Grain-. W. H. Toomer. No. 1,317,336; Sept. 30; v. 266; p. 637.
- Car door, Grain-. B. Van Strait. No. 1,320,297; Oct. 28; v. 267; p. 610.
- Car-door hanger, Freight-. R. H. De Berry. No. 1,292,440; Jan. 28; v. 258; p. 658.
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- Car-door lock. R. T. Roberts. No. 1,294,949; Feb. 18; v. 259; p. 526.
- Car-door motor. W. V. Turner. No. 1,326,228; Dec. 30; v. 269; p. 724.
- Car-door-operating device. W. and R. G. Bock. No. 1,299,420; Apr. 8; v. 261; p. 211.
- Car-door-operating device, Dump-. C. H. Clark. No. 1,294,051; Feb. 11; v. 259; p. 282.
- Car-door-operating mechanism. W. M. Cady. No. 1,292,430; Jan. 28; v. 258; p. 655.
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- Car-door safety device. A. K. Winter. No. 1,300,319; Apr. 15; v. 261; p. 437.
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- Car-door seal. C. J. Dresser. No. 1,311,500; July 29; v. 264; p. 774.
- Car-door, Sheet-metal. A. S. Barrows. No. 1,315,537; Sept. 9; v. 266; p. 204.
- Car door, Sheet-metal freight-. P. M. Elliott. No. 1,300,143; Apr. 8; v. 261; p. 373.
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- Car doors, Mechanism for operating freight-. H. F. Jerolaman. No. 1,312,180; Aug. 5; v. 265; p. 62.
- Car doors, Operating mechanism for hopper-. E. F. Vansteenberg. No. 1,292,163; Jan. 21; v. 258; p. 572.
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- Car-ventilator. C. L. Harrison. No. 1,308,737; July 1; v. 264; p. 134.
- Car-ventilator. E. V. Hill. No. 1,312,177; Aug. 5; v. 265; p. 61.
- Car ventilator, Freight-. W. E. Wine. No. 1,298,136; Mar. 25; v. 260; p. 601.
- Car-vestibule-diaphragm face-plates, Buffer-spring for. W. P. Murphy. No. 1,303,364; May 13; v. 262; p. 195.
- Car, War-. A. Calisi. No. 1,307,238; June 17; v. 263; p. 438.
- Car-washing apparatus, Railway-. G. A. Roberts. No. 1,298,096; Mar. 25; v. 260; p. 591.
- Car-wheel. W. W. Fuller. No. 1,319,275; Oct. 21; v. 267; p. 395.
- Car wheel and axle, Differential. A. W. Dowe. No. 1,316,087; Sept. 16; v. 266; p. 318.
- Car-wheel-attaching device, Mine-. J. H. Rutherford. No. 1,308,996; July 8; v. 264; p. 210.
- Car-wheel-bearing retainer. F. Helmick. No. 1,325,153; Dec. 16; v. 269; p. 470.
- Car-wheel construction. J. S. Woodcock. No. 1,310,227; July 15; v. 264; p. 474.
- Car-wheel journal. H. Yeager. No. 1,299,528; Apr. 8; v. 261; p. 235.
- Car wheel, Mining-. A. B. Day. No. 1,326,255; Dec. 30; v. 269; p. 729.
- Car wheel, Mining-. A. B. Day. No. 1,326,649; Dec. 30; v. 269; p. 803.
- Car-wheels, Apparatus for finishing. C. L. Taylor. No. 1,302,880; May 6; v. 262; p. 77.
- Car-wheels, &c., Method of and apparatus or mill for rolling or forming. L. F. Dieter. No. 1,319,142; Oct. 21; v. 267; p. 369.
- Car-wheels, &c., Method of and apparatus or mill for rolling or forming dish. L. F. Dieter. No. 1,319,143; Oct. 21; v. 267; p. 370.
- Car-wheels, &c., Method of and means for rolling or forming. L. F. Dieter. No. 1,319,141; Oct. 21; v. 267; p. 369.
- Car wheels, Rim for motor-. R. L. Morgan. No. 1,304,494; May 27; v. 262; p. 538.
- Car wind-shield, Motor-. L. Kelcher. No. 1,292,797; Jan. 28; v. 258; p. 743.
- Car-window cleaner, Street-. D. C. Scott. No. 1,301,609; Apr. 22; v. 261; p. 738.
- Cars, Adjustable instrument-board for motor-. C. Carson. No. 1,325,140; Dec. 16; v. 269; p. 468.
- Cars, Air-brake system for motor-. W. H. Utterbaugh. No. 1,322,377; Nov. 18; v. 268; p. 495.
- Cars, Air-pipe coupling for railway-. R. L. Johnson. No. 1,294,913; Feb. 18; v. 259; p. 518.
- Cars and elsewhere, Controlling device for use on motor-. R. H. Rogers and P. O. Dorer. No. 1,317,172; Sept. 30; v. 266; p. 608.
- Cars and means therefor, Shipping railway motor-. K. J. Eklund. No. 1,325,009; Dec. 16; v. 269; p. 443.
- Cars and other vehicles, Shock-absorber for motor-. M. Derihon. No. 1,290,115; Jan. 7; v. 258; p. 25.
- Cars and other vehicles, Shock-absorber for motor-. M. Derihon. No. 1,290,116; Jan. 7; v. 258; p. 25.
- Cars and the like, Ball-bearing journal-box for railway-. J. H. Banninger. No. 1,314,496; Sept. 2; v. 266; p. 3.
- Cars and the like, Gage for wheels of motor-. C. H. Pym and E. J. Witcombe. No. 1,298,090; Mar. 25; v. 260; p. 590.
- Cars and the like, Vacuum unloader for railway-. F. Girtanner. No. 1,301,427; Apr. 22; v. 261; p. 704.
- Cars, Apparatus for distributing. E. P. Haines. No. 1,324,113; Dec. 9; v. 269; p. 212.
- Cars, Band-anchor for tank-. F. M. Stevenson. No. 1,319,632; Oct. 21; v. 267; p. 463.
- Cars, Bonnet for motor-. G. B. Houston and J. A. Helman. No. 1,299,944; Apr. 8; v. 261; p. 329.
- Cars, Braking device for railway-. S. Zaskey. No. 1,317,409; Sept. 30; v. 266; p. 651.
- Cars, Buffer-plate for passenger-. J. R. Mitchell. No. 1,311,988; Aug. 5; v. 265; p. 25.
- Cars, Buffering-gear for railway-. W. F. Richards and D. C. Davis. No. 1,323,787; Dec. 2; v. 269; p. 106.
- Cars, Condenser for motor-driven railway section-. G. Wilson. No. 1,306,986; June 17; v. 263; p. 392.
- Cars, Direction-indicator for motor-. C. A. Ott. No. 1,306,118; June 10; v. 263; p. 197.
- Cars, Direction-indicator for motor-. W. H. Todd. No. 1,317,740; Oct. 7; v. 267; p. 15.
- Cars, Draft-arm for railway-. H. L. Ingersoll. No. 1,318,448; Oct. 14; v. 267; p. 212.
- Cars, Draft-arm for railway-. C. C. Kinsman. No. 1,300,847; Apr. 15; v. 261; p. 549.
- Cars, Draft attachment for railway-. B. W. Kadel, J. A. Pilcher, R. H. Persinger, and H. W. Reynolds. No. 1,325,156; Dec. 16; v. 269; p. 471.
- Cars, Draft-rigging for railway-. W. M. Dwyer. No. 1,309,021; July 8; v. 264; p. 216.
- Cars, Draft-rigging for railway-. E. Gerge, Jr. No. 1,301,681; Apr. 22; v. 261; p. 752.
- Cars, Draft-rigging for railway-. J. Kelso. No. 1,306,429; June 10; v. 263; p. 257.
- Cars, Drain-cleaner for refrigerator-. E. C. Sterling. No. 1,297,414; Mar. 18; v. 260; p. 422.
- Cars, Electric generator for lighting motor-. H. C. H. Smyth. No. 1,323,111; Nov. 25; v. 268; p. 684.
- Cars, End reinforcement for box-. G. S. Goodwin. (Re-issue.) No. 14,588; Feb. 4; v. 259; p. 158.
- Cars, End structure for gondola. W. P. Murphy. No. 1,299,991; Apr. 8; v. 261; p. 339.
- Cars, Entrance and exit control and signal mechanism for street-. F. Steffens. No. 1,306,786; June 17; v. 263; p. 355.
- Cars, Folding seat for side. L. F. Whitacre. No. 1,325,130; Dec. 16; v. 269; p. 466.
- Cars, Frame for the bodies and wheels of side. G. E. Rigby. No. 1,315,332; Sept. 9; v. 266; p. 167.
- Cars, Friction draft-gear for railway-. J. S. Naery. No. 1,303,943; May 20; v. 262; p. 339.



- Cars, Friction-gear for railway-. G. A. Johnson. No. 1,301,944; Apr. 29; v. 261; p. 834.
- Cars, Grain-door for. V. W. Miller. No. 1,303,832; May 13; v. 262; p. 281.
- Cars, Hot-box detector for railway-. S. H. Fether. No. 1,296,499; Mar. 4; v. 260; p. 152.
- Cars, Insulation for refrigerator-. J. R. Mitchell. No. 1,314,090; Aug. 26; v. 265; p. 507.
- Cars, Kerosene-vaporizer for motor-. L. Werts. No. 1,314,447; Aug. 26; v. 265; p. 576.
- Cars, Locking means for draft-sills of railway-. A. M. Lowry. No. 1,320,073; Oct. 28; v. 267; p. 569.
- Cars, Machine for loading and double-decking cotton-bales in freight-. E. L. Barnes. No. 1,316,410; Sept. 16; v. 266; p. 379.
- Cars, Marker-bracket for railway-. J. Steele. No. 1,317,995; Oct. 7; v. 267; p. 64.
- Cars, Means for attaching reserve wheels and tires to motor-. C. P. Schou. No. 1,321,247; Nov. 11; v. 268; p. 231.
- Cars, Mirror-support for use in. M. Holdsworth. No. 1,311,278; July 29; v. 264; p. 732.
- Cars or vehicles along railways, Apparatus for controlling the passage of. F. H. Nicholson. No. 1,317,808; Sept. 30; v. 266; p. 632.
- Cars, Passenger's side platform for. H. J. Palmer. No. 1,297,002; Mar. 11; v. 260; p. 305.
- Cars, Power-transmitting mechanism for railway and other. S. D. Rogers. No. 1,293,934; Feb. 11; v. 259; p. 253.
- Cars, Rein-operated means for motor-. H. B. Johnson. No. 1,300,619; Apr. 15; v. 261; p. 500.
- Cars, Rein-operative control means for motor-. H. B. Johnson. No. 1,300,618; Apr. 15; v. 261; p. 500.
- Cars, Reinforced sheet-steel end wall for railway-. V. E. Sisson. No. 1,324,569; Dec. 9; v. 269; p. 300.
- Cars, Releasing-wrench for coal-. H. M. Pfister. No. 1,304,090; May 20; v. 262; p. 305.
- Cars, Repair-hanger for motor-. H. C. Steinmetz. No. 1,316,200; Sept. 16; v. 266; p. 339.
- Cars, Roller-bearing for railway. C. I. Lott. No. 1,326,754; Dec. 30; v. 269; p. 823.
- Cars, Roof for box-. L. C. Jordan. No. 1,298,220; Mar. 25; v. 260; p. 619.
- Cars, Running-board for box-. J. R. Schrader. No. 1,300,199; Apr. 8; v. 261; p. 385.
- Cars, Safety-stop for mine-. J. Klansnic. No. 1,297,575; Mar. 18; v. 260; p. 455.
- Cars, Sheet-metal end structures for railway-. W. P. Murphy. No. 1,304,999; May 27; v. 262; p. 576.
- Cars, Sheet-metal end structure for railway-. W. P. Murphy. No. 1,313,106; Aug. 12; v. 265; p. 271.
- Cars, Sheet-metal end-wall construction for railway-. V. E. Sisson. No. 1,299,251; Apr. 1; v. 261; p. 145.
- Cars, Side bearing for. F. L. Barber and E. W. Webb. No. 1,310,556; July 22; v. 264; p. 565.
- Cars, Side bearing for. E. W. Webb. No. 1,319,441; Oct. 21; v. 267; p. 426.
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- Cars, Steam-radiator for traction-railway. F. F. Coggin and R. P. Whitcher. No. 1,307,849; June 24; v. 263; p. 583.
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- Cars, System of heat generation and distribution for railway-. H. H. Vaughn. No. 1,311,783; July 29; v. 264; p. 826.
- Cars, Tilting platform for side-dumping. A. Pettit. No. 1,313,416; Aug. 19; v. 265; p. 345.
- Cars, Tire-carrier for motor-. A. R. Brokenshire. No. 1,312,829; Aug. 12; v. 265; p. 216.
- Cars, Unloading grain-. T. D. Budd. No. 1,320,377; Nov. 4; v. 268; p. 4.
- Cars, Ventilating system for. C. A. Moore. No. 1,308,188; July 1; v. 264; p. 33.
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- Carbid-holder. A. F. Jenkins. No. 1,304,685; May 27; v. 262; p. 518.
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- Carbid, Preparation of crude materials for manufacture of calcium. F. L. Slocum. No. 1,319,426; Oct. 21; v. 267; p. 424.
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- Carbon article, Baked. A. T. Hinckley. No. 1,307,738; June 24; v. 263; p. 562.
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- Carbon-black, Manufacturing. D. F. Zimmers, E. N. Jessop, W. J. Koenig, and J. B. Garner. No. 1,307,430; June 24; v. 263; p. 506.
- Carbon-cleaner, Combination. O. J. Price. No. 1,299,609; Apr. 8; v. 261; p. 254.
- Carbon dioxide from gaseous mixtures, Absorption of. J. C. H. Kramers. No. 1,290,244; Jan. 7; v. 258; p. 56.
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- Carbon electric resistor, Tubular zigzag. J. Thomson. No. 1,318,031; Oct. 7; v. 267; p. 70.
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- Carbon electric resistor, Zigzag. J. Thomson. No. 1,318,029; Oct. 7; v. 267; p. 70.
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- Carbon element and making same. T. W. Byrne. No. 1,316,765; Sept. 23; v. 266; p. 495.
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- Carbonaceous material and making same. A. T. Hinckley. No. 1,317,498; Sept. 30; v. 266; p. 668.
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- Carbonator. A. L. Koenig. No. 1,291,554; Jan. 14; v. 258; p. 389.
- Carboniferous material, Utilization of low-grade. R. W. Lesley. No. 1,323,294; Dec. 2; v. 269; p. 130.
- Carbonizing compound and making same. C. P. Mebane. No. 1,310,918; July 22; v. 264; p. 632.
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- Carbureter. R. H. Baker and E. W. Mason. No. 1,292,229; Jan. 21; v. 258; p. 588.
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- Carbureter. F. H. and F. O. Ball. (Reissue.) No. 14,780; Dec. 30; v. 269; p. 850.
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- Carburetor. A. D. Chandler. No. 1,290,508; Jan. 7; v. 258; p. 119.
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- Carburetor. E. Feroldi. No. 1,322,554; Nov. 25; v. 268; p. 580.
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- Carbureter air-inlet. A. A. Sebastian and D. R. Capes. No. 1,303,972; May 20; v. 262; p. 344.
- Carbureter-air-supply compensator. L. Wilhelm. No. 1,292,194; Jan. 21; v. 258; p. 579.
- Carbureter attachment. E. Currie. No. 1,297,662; Mar. 18; v. 260; p. 473.
- Carbureter attachment. H. Fredriksson. No. 1,302,534; May 6; v. 262; p. 11.
- Carbureter, Automatic-adjusting. J. H. Seek. No. 1,296,705; Mar. 11; v. 260; p. 236.
- Carbureter control mechanism. E. O. Sather. No. 1,307,704; June 24; v. 263; p. 556.
- Carbureter device. H. F. Ong. No. 1,311,088; July 22; v. 264; p. 664.
- Carbureter for explosion-engines. E. Feroldi. No. 1,307,396; June 24; v. 263; p. 500.
- Carbureter for explosion-engines. E. Feroldi. No. 1,314,313; Aug. 26; v. 265; p. 550.
- Carbureter for facilitating the starting of internal-combustion engines, Supplementary. W. J. Boughton. No. 1,298,445; Mar. 25; v. 260; p. 667.
- Carbureter for gasoline-engines. E. Knauss. No. 1,304,988; May 27; v. 262; p. 574.
- Carbureter for internal-combustion engines. H. Binks. No. 1,309,178; July 8; v. 264; p. 244.
- Carbureter for internal-combustion engines. J. Bouteille. No. 1,303,761; May 13; v. 262; p. 267.
- Carbureter for internal-combustion engines. J. T. Jennings. No. 1,299,952; Apr. 8; v. 261; p. 331.
- Carbureter-governing device. P. S. Tice. No. 1,321,261; Nov. 11; v. 268; p. 234.
- Carbureter-heater. C. Line. No. 1,321,462; Nov. 11; v. 268; p. 273.
- Carbureter-heating apparatus. W. Jay. No. 1,291,532; Jan. 14; v. 258; p. 385.
- Carbureter, Multifluid multijet. C. L. Rayfield. No. 1,310,805; July 22; v. 264; p. 612.
- Carbureter-nozzle. J. Piat. No. 1,310,964; July 22; v. 264; p. 641.
- Carbureter-support. W. G. Smith. No. 1,311,020; July 22; v. 264; p. 651.
- Carbureter-valve. F. A. Howard. No. 1,315,727; Sept. 9; v. 266; p. 237.
- Carbureter, Vaporizing. C. P. Byrnes. No. 1,302,762; May 6; v. 262; p. 53.
- Carbureters, Air-controlling attachment for. W. A. Gibson. No. 1,323,044; Nov. 25; v. 268; p. 671.
- Carbureters, Air-controlling device for. A. C. Fontaine. No. 1,313,478; Aug. 19; v. 265; p. 357.
- Carbureters, Air-valve for. J. L. Fritz. No. 1,305,272; June 3; v. 263; p. 8.
- Carbureters for burning heavy oils, Exhaust and intake manifold for. E. M. Bruner and E. J. Otto. No. 1,296,313; Mar. 4; v. 260; p. 113.
- Carbureters, Fuel-feeding device for. P. P. Gilles. No. 1,317,919; Oct. 7; v. 267; p. 49.
- Carbureters, Gasoline-feed system for. R. A. Leavell. No. 1,310,915; July 22; v. 264; p. 632.
- Carbureters, Heating appliance for. E. H. O'Brien. No. 1,308,860; July 8; v. 264; p. 184.
- Carbureters, Hydrocarbon-heater for. F. Winchell. No. 1,308,135; July 1; v. 264; p. 24.
- Carbureters, Hydrocarbon-preheater for. G. E. Ross. No. 1,305,170; May 27; v. 262; p. 608.
- Carbureters, Oil-feed control for. C. L. Stokes. No. 1,312,814; Aug. 12; v. 265; p. 213.
- Carbureters, Safety appliance for. J. L. Poland. No. 1,314,900; Sept. 2; v. 266; p. 79.
- Carbureting apparatus. R. Beernink. No. 1,312,228; Aug. 5; v. 265; p. 70.
- Carbureting apparatus. G. W. Christoph. No. 1,314,046; Aug. 26; v. 265; p. 498.
- Carbureting apparatus. H. Hellweg. No. 1,314,872; Sept. 2; v. 266; p. 74.



- Carbureting apparatus for internal-combustion engines. J. E. Sykora. No. 1,296,711; Mar. 11; v. 260; p. 237.
- Carbureting mixtures. H. M. Reichenbach. No. 1,292,053; Jan. 21; v. 258; p. 544.
- Carburizing. H. Rodman. No. 1,292,652; Jan. 28; v. 258; p. 710.
- Carburizing material and producing the same. G. W. Pressell. No. 1,292,044; Jan. 21; v. 258; p. 542.
- Carcass-cleaning machine. J. W. Kohlhepp. No. 1,323,636; Dec. 2; v. 269; p. 77.
- Carcass-cleaning machine, Side-discharge. J. W. Kohlhepp; No. 1,323,638; Dec. 2; v. 269; p. 77.
- Carcass dehairing and cleaning machine. A. E. Ozouf. No. 1,322,607; Nov. 25; v. 268; p. 590.
- Carcass-dehairing machine. R. W. Ridgway. No. 1,322,821; Nov. 25; v. 268; p. 629.
- Carcass-dehairing machine, Multiple-drum. J. W. Kohlhepp. No. 1,323,637; Dec. 2; v. 269; p. 77.
- Carcass-scraping drum, Flexible. J. W. Kohlhepp. No. 1,323,639; Dec. 2; v. 269; p. 78.
- Carcass-splitting machine. H. E. Conger and C. W. Waller. No. 1,313,579; Aug. 19; v. 265; p. 377.
- Card and label holder. J. P. Kern. No. 1,325,476; Dec. 16; v. 269; p. 529.
- Card and type-writing on the bottom margin, Index. J. H. Rand. No. 1,317,644; Sept. 30; v. 266; p. 697.
- Card, Animal-. C. A. Healey. No. 1,290,554; Jan. 7; v. 258; p. 130.
- Card-case. A. B. Creek. No. 1,308,336; July 1; v. 264; p. 60.
- Card-case. W. C. Cutler. No. 1,296,484; Mar. 4; v. 260; p. 149.
- Card-clothing foundation. H. Midgley. No. 1,293,504; Feb. 4; v. 259; p. 123.
- Card-controlled mechanism, Punched-. J. E. Wright. No. 1,299,090; Apr. 1; v. 261; p. 109.
- Card-displaying device. J. E. Birdsall. No. 1,322,175; Nov. 18; v. 268; p. 456.
- Card-filing system. J. R. Hendry. No. 1,296,956; Mar. 11; v. 260; p. 294.
- Card, Folding mailing-. R. B. Herter. No. 1,311,397; July 29; v. 264; p. 755.
- Card, Food-order. D. Woronzoff. No. 1,296,149; Mar. 4; v. 260; p. 77.
- Card-holder. L. W. Hill. No. 1,296,390; Mar. 4; v. 260; p. 130.
- Card-holder for garment-hangers. W. J. Landry. No. 1,321,926; Nov. 18; v. 268; p. 410.
- Card-holder, Universal. F. Haskel. No. 1,303,661; May 13; v. 262; p. 249.
- Card-holding attachment for pencils. A. B. Scott. No. 1,297,017; Mar. 11; v. 260; p. 307.
- Card-index, Telephone. F. J. Kristofek. No. 1,316,544; Sept. 16; v. 266; p. 406.
- Card, Novelty. C. E. Howell. No. 1,304,773; May 27; v. 262; p. 534.
- Card or sheet, Record. W. B. Templeton. No. 1,305,318; June 3; v. 263; p. 17.
- Card protector, Workman's-. H. H. Newsom. No. 1,291,608; Jan. 14; v. 258; p. 403.
- Card-punching device, Jacquard-. J. A. Grundy. No. 1,318,662; Oct. 14; v. 267; p. 252.
- Card-rack. W. W. Adler. No. 1,315,899; Sept. 9; v. 266; p. 269.
- Card-rack. R. P. Gaston. No. 1,309,194; July 8; v. 264; p. 247.
- Card, Rebate. R. T. Frost. No. 1,302,150; Apr. 29; v. 261; p. 873.
- Card record, Time-. H. A. Rich. No. 1,294,535; Feb. 18; v. 259; p. 430.
- Card-scorer. A. G. E. Lowman. No. 1,299,489; Apr. 8; v. 261; p. 227.
- Card-sorter, Rotary. W. W. Lasker. No. 1,298,971; Apr. 1; v. 261; p. 82.
- Card-table, Folding. E. T. Burrowes. No. 1,304,540; May 27; v. 262; p. 491.
- Cards and the like, Holder for menu-. M. Metzger. No. 1,310,202; July 15; v. 264; p. 469.
- Cards. Arithmetical practising-. W. P. Joyce. No. 1,323,986; Dec. 2; v. 269; p. 144.
- Cards, Duplex recording-. R. B. Nisbet, Jr. No. 1,303,106; May 6; v. 262; p. 119.
- Cards, Feeding. J. Powers. No. 1,310,434; July 22; v. 264; p. 543.
- Cards, Game-. H. W. Wells. No. 1,292,184; Jan. 21; v. 258; p. 576.
- Cards, Holder and tray for playing-. E. S. D. Salambo. No. 1,320,798; Nov. 4; v. 268; p. 83.
- Cards, Machine for applying samples to. M. H. Clark. No. 1,304,943; May 27; v. 262; p. 565.
- Cards, Machine for handling address-. L. B. Pierson. No. 1,325,576; Dec. 23; v. 269; p. 566.
- Cards, Means for cleaning. L. W. Penney. No. 1,307,452; June 24; v. 263; p. 511.
- Cards, Playing-. G. Knoos, Jr. No. 1,314,522; Sept. 2; v. 266; p. 9.
- Cards, Playing-. J. B. McIntire. No. 1,320,899; Nov. 4; v. 268; p. 102.
- Cards, Playing-. A. Rosenfeld. No. 1,322,954; Nov. 25; v. 268; p. 655.
- Cards, Playing-. B. C. Schuchard. No. 1,322,204; Nov. 18; v. 268; p. 462.
- Cards, Playing-. A. M. Stouffer and W. Ehrler. No. 1,305,949; June 3; v. 263; p. 37.
- Cards, Reinforcement for the edges of. G. B. Hecklinger. No. 1,325,470; Dec. 16; v. 269; p. 528.
- Cardboard box. J. Fitzsimmons. No. 1,321,727; Nov. 11; v. 268; p. 822.
- Cardboard, Machine for creasing. J. H. Stortz. No. 1,307,065; June 17; v. 263; p. 407.
- Carding. S. Juan. No. 1,303,833; May 13; v. 262; p. 281.
- Carding-engine. F. E. Banfield, Jr., L. W. Penney, and A. D. Colby. No. 1,290,876; Jan. 14; v. 258; p. 252.
- Carding-engine. D. Grosjean. No. 1,314,586; Sept. 2; v. 266; p. 21.
- Carding-engine. G. W. A., and R. Hargreaves. No. 1,310,827; July 22; v. 264; p. 616.
- Carding-engine. L. W. Penney. No. 1,307,415; June 24; v. 263; p. 503.
- Carding-engines, Apparatus for stripping. J. W. Cook, T. E. Leigh, and J. Jowett. No. 1,303,538; May 13; v. 262; p. 226.
- Carding-engines, Stripping apparatus for. J. W. Cook, T. E. Leigh, J. Jowett, and N. Cook. No. 1,302,012; Apr. 29; v. 261; p. 847.
- Carding-machine. L. Atherton and O. Meek. No. 1,299,105; Apr. 1; v. 261; p. 112.
- Carding-machine. G. M. Whiffin. No. 1,302,109; Apr. 29; v. 261; p. 865.
- Carding-machine feeder. T. Temple. No. 1,297,607; Mar. 18; v. 260; p. 462.
- Carding-machine, Traveling-flat. C. C. Lamb. No. 1,297,367; Mar. 18; v. 260; p. 412.
- Carding-machines by a vacuum, Apparatus for stripping. P. Kestner. No. 1,293,798; Feb. 11; v. 259; p. 223.
- Carding-machines, Collecting mechanism for. W. E. Cook. No. 1,312,953; Aug. 12; v. 265; p. 240.
- Cargo in bulk from barges or vessels and delivery thereof, Discharge of. A. Musker. No. 1,292,852; Jan. 28; v. 258; p. 756.
- Cargo-sling. I. Heffron. No. 1,314,397; Aug. 26; v. 265; p. 566.
- Carline. J. A. Costello. No. 1,299,916; Apr. 8; v. 261; p. 323.
- Carline. J. A. Costello. No. 1,314,573; Sept. 2; v. 266; p. 19.
- Carline. L. A. Hoerr. No. 1,322,694; Nov. 25; v. 268; p. 606.
- Carline, Metal. C. D. Bonsall and F. W. Wolff. No. 1,315,756; Sept. 9; v. 266; p. 242.
- Carline, Metal. C. D. Bonsall and F. W. Wolff. No. 1,315,757; Sept. 9; v. 266; p. 242.
- Carousal. F. Gadecki. No. 1,318,986; Oct. 14; v. 267; p. 314.
- Carousal. J. Piluszcak. No. 1,325,374; Dec. 16; v. 269; p. 511.
- Carpenter's implement. E. A. Smith. No. 1,312,006; Aug. 5; v. 265; p. 28.
- Carpenter's knife. A. Weinbacher. No. 1,323,937; Dec. 2; v. 269; p. 134.
- Carpenter's tool. J. M. Fiori. No. 1,293,394; Feb. 4; v. 259; p. 98.
- Carpenter's tool. J. E. McDermott. No. 1,294,289; Feb. 11; v. 259; p. 337.
- Carpet and rug beater. C. J. Green. No. 1,294,090; Feb. 11; v. 259; p. 291.
- Carpet-beating rack. K. Grater. No. 1,301,430; Apr. 22; v. 261; p. 705.
- Carpet-cleaner. A. Zdanczewicz. No. 1,300,323; Apr. 15; v. 261; p. 438.
- Carpet-cleaner, Suction. F. S. Chase. No. 1,294,875; Feb. 18; v. 259; p. 510.
- Carpet-cleaning machine. A. J. Weis. No. 1,294,005; Feb. 11; v. 259; p. 272.
- Carpet-fastener. J. Vornhulz. No. 1,315,060; Sept. 2; v. 266; p. 108.
- Carpet fastener, Stair-. J. H. Boye. No. 1,299,546; Apr. 8; v. 261; p. 239.
- Carpet fastener, Stair-. C. Gray. No. 1,300,214; Apr. 8; v. 261; p. 388.
- Carpet-sweeper. H. L. Boyle. No. 1,319,836; Oct. 28; v. 267; p. 524.
- Carpet-top. J. Breyer. No. 1,291,752; Jan. 21; v. 258; p. 467.
- Carriage, Baby-. A. L. Lucas. No. 1,303,930; May 20; v. 262; p. 336.
- Carriage, Baby-. W. A. Rainville. No. 1,318,592; Oct. 14; v. 267; p. 239.
- Carriage, Baby-. G. S. Shaw. No. 1,301,514; Apr. 22; v. 261; p. 721.
- Carriage, Dumping-. F. Noethlich. No. 1,301,962; Apr. 29; v. 261; p. 838.
- Carriage for stackers, Automatic. E. E. Simms and G. W. Johnson. No. 1,319,629; Oct. 21; v. 267; p. 462.
- Carriage or perambulator, Baby-. J. Garami. No. 1,313,683; Aug. 19; v. 265; p. 395.
- Carriage-return mechanism. O. Thleme. No. 1,294,726; Feb. 18; v. 259; p. 474.
- Carriage runner, Automatic baby-. J. Jackson. No. 1,317,083; Sept. 23; v. 266; p. 553.
- Carriage seat, Baby-. P. Silvarman. No. 1,302,444; Apr. 29; v. 261; p. 930.



## Alphabetical list of inventions—Continued.

- Carriage-top, Folding. A. W. Curtis. No. 1,312,836; Aug. 12; v. 265; p. 216.
- Carriages, Attachment for baby-. J. Panzner and J. Pekar. No. 1,301,593; Apr. 22; v. 261; p. 735.
- Carriages, Runner attachment for baby-. R. H. Spaulding. No. 1,307,275; June 17; v. 263; p. 444.
- Carriages, Seat-rail attachment for top-. O. N. Robards. No. 1,302,223; Apr. 29; v. 261; p. 886.
- Carrier. *See—*
- |   |                               |
|---|-------------------------------|
| Aerial carrier.                         | Mailing money-carrier.        |
| Article-carrier.                        | Order-carrier.                |
| Auto-carrier.                           | Overhead carrier.             |
| Automobile-carrier.                     | Package-carrier.              |
| Automobile collapsible baggage-carrier. | Phonograph-record carrier.    |
| Automobile luggage-carrier.             | Photo-film carrier.           |
| Background-carrier.                     | Pie-carrier.                  |
| Bottle-carrier.                         | Pocketed carrier.             |
| Braiding-machine carrier.               | Portable carrier.             |
| Brake-band carrier.                     | Shipyard aerial fall-carrier. |
| Brick-carrier.                          | Shock and sheaf carrier.      |
| Cartridge-carrier.                      | Tire-carrier.                 |
| Cash-carrier.                           | Tire or rim carrier.          |
| Draw-bar carrier.                       | Toilet-article carrier.       |
| Drawer-carrier.                         | Tool-carrier.                 |
| Egg-carrier.                            | Trace-carrier.                |
| Elevated carrier.                       | Trace-end carrier.            |
| Folding carrier.                        | Tray-carrier.                 |
| Hay-carrier.                            | Treasure-carrier.             |
| Invalid-carrier.                        | Vehicle-carrier.              |
| Lamp-carrier.                           | Watch-carrier.                |
| Latch-key carrier.                      | Wheel-carrier.                |
| Litter-carrier.                         | Wheel and tire carrier.       |
| Luggage-carrier.                        | Woven carrier.                |
- Carrier. N. Bulat. No. 1,296,619; Mar. 11; v. 260; p. 216.
- Carrier. J. Krauz. No. 1,308,759; July 8; v. 264; p. 166.
- Carrier. J. Strand. No. 1,311,668; July 29; v. 264; p. 805.
- Carrier. F. A. Swinger. No. 1,324,854; Dec. 16; v. 269; p. 414.
- Carrier-boom. W. Mitchell. No. 1,314,010; Aug. 26; v. 265; p. 492.
- Carrier-distributor. J. G. Maclaren. No. 1,323,608; Dec. 2; v. 269; p. 91.
- Carrier equipment, Pocketed-. F. R. Batchelder. No. 1,326,015; Dec. 23; v. 269; p. 647.
- Carrier equipment, Pocketed-. F. R. Batchelder. No. 1,326,016; Dec. 23; v. 269; p. 647.
- Carrier-machine. L. W. Bleier. No. 1,306,328; June 10; v. 263; p. 239.
- Carrier or transport, Submergible cargo. J. T. Reid. No. 1,312,356; Aug. 5; v. 265; p. 93.
- Carrier, Order-. J. Lamont. No. 1,314,965; Sept. 2; v. 266; p. 90.
- Carrvill, Dinner-. C. Taylor. No. 1,291,248; Jan. 14; v. 258; p. 319.
- Carrying and drag bag. A. W. Smith. No. 1,308,263; July 1; v. 264; p. 47.
- Carrying and dumping box. F. Summers. No. 1,320,350; Oct. 28; v. 267; p. 620.
- Carrying-bag handle. F. L. Johnson. No. 1,306,149; June 10; v. 263; p. 203.
- Carrying-chair, Foldable. J. Janczyk. No. 1,302,927; May 6; v. 262; p. 85.
- Cart. D. A. Dunsenbery. No. 1,293,058; Feb. 4; v. 259; p. 21.
- Cart. E. C. Messersmith. No. 1,319,235; Oct. 21; v. 267; p. 387.
- Cart and loader. J. Wesley. No. 1,292,670; Jan. 28; v. 258; p. 714.
- Cart, Convertible. F. J. Hofer. No. 1,305,106; May 27; v. 262; p. 596.
- Cart, Harrow-. A. T. Minty. No. 1,306,352; June 10; v. 263; p. 243.
- Carts, Constructing. D. A. Dunsenbery. No. 1,301,410; Apr. 22; v. 261; p. 701.
- Carton. F. B. Davidson. No. 1,311,325; July 29; v. 264; p. 741.
- Carton. J. H. Elder. No. 1,315,102; Sept. 2; v. 266; p. 115.
- Carton. J. H. Elder. No. 1,315,103; Sept. 2; v. 266; p. 115.
- Carton. H. Furste. No. 1,305,707; June 3; v. 263; p. 90.
- Carton. J. D. Macdonald. No. 1,299,849; Apr. 8; v. 261; p. 309.
- Carton. W. G. Mennen. No. 1,293,502; Feb. 4; v. 259; p. 123.
- Carton. H. L. Smith. No. 1,290,386; Jan. 7; v. 258; p. 89.
- Carton. J. W. Woolwine. No. 1,303,138; May 6; v. 262; p. 126.
- Carton and blank therefor. R. A. Taylor. No. 1,312,710; Aug. 12; v. 265; p. 193.
- Carton and display device. J. B. Singer and A. B. Levy. No. 1,294,312; Feb. 11; v. 259; p. 343.
- Carton, Celled. F. C. Maegly. No. 1,313,948; Aug. 26; v. 265; p. 480.
- Carton, Combined coat and trousers. R. A. Romeo. No. 1,320,576; Nov. 4; v. 268; p. 41.
- Carton-filling machine. F. M. Peters and W. H. Hungerford. No. 1,295,197; Feb. 25; v. 259; p. 606.
- Carton, One-piece automatic folding. J. C. Pridham. No. 1,307,638; June 24; v. 263; p. 544.
- Carton, Sealable strainer-. R. E. Reardon. No. 1,315,413; Sept. 9; v. 266; p. 181.
- Carton, Shipping-. E. B. Warren. No. 1,318,628; Oct. 14; v. 267; p. 246.
- Carton-stapling machine. E. Craig. No. 1,323,965; Dec. 2; v. 269; p. 140.
- Carton, Trousers-. D. A. Romeo. No. 1,320,575; Nov. 4; v. 268; p. 41.
- Cartons, Machine for and method of sealing waxed. F. W. Sutherland. No. 1,316,120; Sept. 16; v. 266; p. 324.
- Cartons, Machine for forming corrugated. J. M. Andrews. No. 1,314,115; Aug. 26; v. 265; p. 512.
- Cartons, Machine for making, charging, and sealing. J. Fossel. No. 1,306,422; June 10; v. 263; p. 256.
- Cartons, Machine for setting up. L. M. Crockett. No. 1,311,321; July 29; v. 264; p. 740.
- Cartons, Work-holder for the sealing of. A. E. Rideout. No. 1,310,580; July 22; v. 264; p. 570.
- Cartoons, Means for producing animated. G. J. Teague. No. 1,292,149; Jan. 21; v. 258; p. 568.
- Cartridge-belt, Woven. W. Achtmeyer. No. 1,306,243; June 10; v. 263; p. 223.
- Cartridge-carrier. J. M. Browning. No. 1,301,810; Apr. 29; v. 261; p. 809.
- Cartridge-case. H. M. Smith and W. W. Stanley. No. 1,219,185; Oct. 21; v. 267; p. 378.
- Cartridge-cases, Making. J. W. Offutt, J. J. Dunn, and J. H. Nicholson. No. 1,296,842; Mar. 11; v. 260; p. 267.
- Cartridge-clip. F. Mossberg. No. 1,292,629; Jan. 28; v. 258; p. 705.
- Cartridge-clips, Method and means for producing. A. S. Kux. No. 1,295,769; Feb. 25; v. 259; p. 738.
- Cartridge, Explosive. M. H. Roberts. No. 1,298,097; Mar. 25; v. 260; p. 592.
- Cartridge-feed mechanism for automatic guns. R. Redpath. No. 1,312,048; Aug. 5; v. 265; p. 37.
- Cartridge-feeding device. B. B. Mulvey. No. 1,314,013; Aug. 26; v. 265; p. 492.
- Cartridge for mining purposes, Safety-. E. Lemaire. No. 1,310,666; July 22; v. 264; p. 586.
- Cartridge-loading machine. C. B. Swasey. No. 1,325,339; Dec. 16; v. 269; p. 505.
- Cartridge-lubricator. J. T. Thompson. No. 1,322,271; Nov. 18; v. 268; p. 475.
- Cartridge-magazine evacuator. C. A. Nelson. No. 1,290,844; Jan. 7; v. 258; p. 199.
- Cartridge-press. C. Dimech. No. 1,318,649; Oct. 14; v. 267; p. 250.
- Cartridge-receiving receptacle. A. Fernandez. No. 1,304,468; May 20; v. 262; p. 439.
- Cartridge-shell. W. C. Nelson. No. 1,292,359; Jan. 21; v. 258; p. 618.
- Cartridge, Tea-. B. Hirschhorn. No. 1,310,796; July 22; v. 264; p. 611.
- Cartridges, Method and apparatus for developing film-. E. H. Farmer. No. 1,291,453; Jan. 14; v. 258; p. 367.
- Cartridges, Paper backing for film-. F. S. Tyrrell. No. 1,300,056; Apr. 8; v. 261; p. 353.
- Case. *See—*
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| Bookcase.                  | Funnel-case.            |
| Bottle-case.               | Gear-case.              |
| Card-case.                 | Leather bag or case.    |
| Cartridge-case.            | Letter-case.            |
| Cell-case.                 | Mail-routing case.      |
| Cigarette-case.            | Mailing-case.           |
| Cigarette and cigar case.  | Packing-case.           |
| Clock-case.                | Paper sample-case.      |
| Collapsible case.          | Pocket-case.            |
| Comb-case.                 | Pocket memo-case.       |
| Desk-case.                 | Refrigerator show-case. |
| Display-case.              | Shipping-case.          |
| Display refrigerator-case. | Show-case.              |
| Draftsman's case.          | Sleeping-case.          |
| Egg-case.                  | Smoker's case.          |
| Egg and fruit case.        | Spectacle-case.         |
| Everglass-case.            | Ticket-case.            |
| Filing-case.               | Vanity-case.            |
| Filing-appliance case.     | Universal-joint case.   |
- Case. A. W. Wadsworth. No. 1,321,867; Nov. 18; v. 268; p. 400.
- Case and carrier for commercial salesmen, Demonstrating. E. Beecher. No. 1,311,586; July 29; v. 264; p. 790.
- Case-clamp. O. C. Wysong. No. 1,311,632; July 29; v. 264; p. 798.
- Case-fastener. J. W. Kaufmann. No. 1,325,440; Dec. 16; v. 269; p. 523.
- Case-hardening composition. C. P. Mebane. No. 1,312,339; Aug. 5; v. 265; p. 90.
- Case-hardening material. W. S. Harley. No. 1,308,239; July 1; v. 264; p. 43.
- Case-hardening material. H. Rodman. No. 1,317,728; Oct. 7; v. 267; p. 13.
- Case-shift mechanism. J. A. Hagerstrom. No. 1,304,041; May 20; v. 262; p. 357.
- Cases, cupboards, and the like, Sliding door for. J. Stow and H. B. Cross. No. 1,303,984; May 20; v. 262; p. 347.



- Casement. A. H. Carrier. No. 1,302,765; May 6; v. 262; p. 53.
- Casement-adjuster. T. Finlayson. No. 1,326,042; Dec. 23; v. 269; p. 652.
- Casement-adjuster. H. G. Voight. No. 1,326,623; Dec. 30; v. 269; p. 799.
- Casing. G. G. Floyd. No. 1,304,866; May 27; v. 262; p. 551.
- Casing for control apparatus. K. A. Simmon and L. G. Riley. No. 1,308,119; July 1; v. 264; p. 21.
- Casing-head. F. Kinzbach. No. 1,326,272; Dec. 30; v. 269; p. 732.
- Casing, Inclosing. A. A. Bowser. No. 1,306,743; June 17; v. 263; p. 347.
- Casing. Interchangeable transmitter. F. Gottschalk. No. 1,300,721; Apr. 15; v. 261; p. 522.
- Casing-jack. J. H. Watson. No. 1,301,769; Apr. 22; v. 261; p. 770.
- Casing structure. A. B. Mueller. No. 1,317,634; Sept. 30; v. 266; p. 695.
- Caseln for the production of artificial hornlike masses, Manufacture of. A. Bartels. No. 1,320,666; Nov. 4; v. 268; p. 57.
- Cash-box. R. C. Pratt. No. 1,316,971; Sept. 23; v. 266; p. 532.
- Cash-carrier. G. A. Amsden. No. 1,303,811; May 13; v. 262; p. 226.
- Cash-control apparatus. S. F. Ritter. No. 1,306,973; June 17; v. 263; p. 390.
- Cash-recording device. W. L. Deming. No. 1,299,689; Apr. 8; v. 261; p. 272.
- Cash-register. T. Carroll. No. 1,302,509; May 6; v. 262; p. 6.
- Cash-register. F. L. Fuller. No. 1,301,678; Apr. 22; v. 261; p. 752.
- Cash-register. M. M. Goldberg. No. 1,325,195; Dec. 16; v. 269; p. 478.
- Cash-register. H. A. Martin. No. 1,323,303; Dec. 2; v. 269; p. 15.
- Cash-register. J. L. Morris and A. W. Larimore. No. 1,292,354; Jan. 21; v. 258; p. 617.
- Cash-register light. E. R. Ribble. No. 1,294,167; Feb. 11; v. 259; p. 309.
- Cash-registers, Attachment for. R. N. White, Jr. No. 1,306,240; June 10; v. 263; p. 222.
- Cash-registers, Perforating mechanism for. T. Carroll and J. C. Lockyer. No. 1,320,673; Nov. 4; v. 268; p. 58.
- Casket. J. E. Finnegan and P. J. McCarthy. No. 1,310,860; July 22; v. 264; p. 622.
- Casket and grave-vault, Combined. J. W. Freeman. No. 1,298,688; Apr. 1; v. 261; p. 15.
- Casket-box handle. H. W. Hodgetts. No. 1,319,839; Oct. 21; v. 267; p. 407.
- Casket, Burial. C. H. Stamm. No. 1,300,667; Apr. 15; v. 261; p. 510.
- Casket-carrying harness. J. W. De Camp. No. 1,292,268; Jan. 21; v. 258; p. 596.
- Casket, Davenport. W. C. Watkins. No. 1,321,579; Nov. 11; v. 268; p. 294.
- Casket-handle. J. P. Foley. No. 1,312,171; Aug. 5; v. 265; p. 60.
- Casket-handle. E. R. Sargent. No. 1,301,176; Apr. 22; v. 261; p. 655.
- Casket-handle. E. R. Sargent. No. 1,311,291; July 29; v. 264; p. 734.
- Casket-handle. E. R. Sargent. No. 1,311,292; July 29; v. 264; p. 734.
- Casket handle, Burial. T. A. Watts. No. 1,326,382; Dec. 30; v. 269; p. 752.
- Casket-holding burial-box, Knockdown. F. S. Bintliff. No. 1,290,057; Jan. 7; v. 258; p. 10.
- Casket, Metallic. C. V. Lucius. No. 1,326,873; Dec. 30; v. 269; p. 846.
- Casks and other vessels, Tapping. A. Schmid. No. 1,317,731; Oct. 7; v. 267; p. 13.
- Casserole-holder. J. M. Dillmeier. No. 1,305,201; May 27; v. 262; p. 615.
- Cast-iron articles to other bodies and product, Fitting. W. A. Knapp. No. 1,307,979; June 24; v. 263; p. 607.
- Cast-iron, Manufacture of gray. W. B. Hamilton. No. 1,296,384; Mar. 4; v. 260; p. 129.
- Castellated nuts, Making. F. O. Jaques, Jr. No. 1,311,449; July 29; v. 264; p. 764.
- Caster. A. B. Diss. No. 1,304,748; May 27; v. 262; p. 530.
- Caster. A. B. Diss. No. 1,324,146; Dec. 9; v. 269; p. 218.
- Caster. J. A. Jones. No. 1,304,061; May 20; v. 262; p. 361.
- Caster. E. C. Joseph. No. 1,305,547; June 3; v. 263; p. 60.
- Caster. E. T. Malloy. No. 1,310,029; July 15; v. 264; p. 438.
- Caster. K. Naruszewicz. No. 1,312,863; Aug. 12; v. 265; p. 223.
- Caster. J. S. and E. W. Young and J. L. Schecher. No. 1,301,777; Apr. 22; v. 261; p. 773.
- Caster, Furniture. J. Gibson. No. 1,305,276; June 3; v. 263; p. 9.
- Caster, Furniture. S. Laskowski. No. 1,301,139; Apr. 22; v. 261; p. 648.
- Caster, Insect-proof. D. B. Diss. No. 1,325,316; Dec. 16; v. 269; p. 501.
- Caster, Roller-bearing. J. C. Logan. No. 1,316,622; Sept. 23; v. 266; p. 468.
- Caster, Sliding. C. Jagar. No. 1,294,273; Feb. 11; v. 259; p. 334.
- Caster, Swivel. J. L. Chesnutt. No. 1,296,764; Mar. 11; v. 260; p. 250.
- Caster, Table. I. Jaklich. No. 1,293,788; Feb. 11; v. 259; p. 220.
- Caster-table. E. W. Mickaelson. No. 1,322,808; Nov. 25; v. 268; p. 627.
- Caster-wheel. C. W. Millet. No. 1,310,287; July 15; v. 264; p. 485.
- Casters, Insect-guard for. J. T. Tarvin. No. 1,306,930; June 17; v. 263; p. 382.
- Casting apparatus. J. H. Bamberg and H. H. Doehler. No. 1,301,895; Apr. 29; v. 261; p. 825.
- Casting apparatus. T. Broadbent. No. 1,291,390; Jan. 14; v. 258; p. 352.
- Casting apparatus. A. G. Gutmueller. No. 1,300,723; Apr. 15; v. 261; p. 522.
- Casting apparatus. C. W. Hazelett. No. 1,318,379; Oct. 14; v. 267; p. 198.
- Casting apparatus. C. W. Hazelett. No. 1,318,380; Oct. 14; v. 267; p. 199.
- Casting apparatus. J. Kralund and M. Stern. No. 1,292,484; Jan. 28; v. 258; p. 668.
- Casting apparatus. J. Kralund, C. Duckworth and M. Stern. No. 1,300,739; Apr. 15; v. 261; p. 525.
- Casting apparatus. S. McFarland. No. 1,290,614; Jan. 7; v. 258; p. 144.
- Casting apparatus. C. Pack and L. F. Nock. No. 1,308,862; July 8; v. 264; p. 185.
- Casting apparatus. T. C. Penn. No. 1,318,404; Oct. 14; v. 267; p. 203.
- Casting apparatus, Centrifugal. T. A. Dicks. No. 1,314,512; Sept. 2; v. 266; p. 7.
- Casting apparatus, Centrifugal-pressure. G. M. Hollenback. No. 1,310,865; July 22; v. 264; p. 623.
- Casting apparatus, Gate-former for. J. Kralund. No. 1,321,457; Nov. 11; v. 268; p. 272.
- Casting apparatus, Metal. J. C. Cromwell. No. 1,312,164; Aug. 5; v. 265; p. 59.
- Casting apparatus, Metal. H. Talla. No. 1,302,450; Apr. 29; v. 261; p. 931.
- Casting apparatus, Metal. E. L. Wolff. No. 1,294,742; Feb. 18; v. 259; p. 478.
- Casting, Art of. J. K. Griffith. No. 1,313,593; Aug. 19; v. 265; p. 379.
- Casting battery-grids, Mold for. N. D. Sturges. No. 1,317,333; Sept. 30; v. 266; p. 637.
- Casting-box, Centrifugal. G. C. Clark. No. 1,300,123; Apr. 8; v. 261; p. 369.
- Casting cementitious material, Apparatus for. G. Atterbury. No. 1,293,662; Feb. 11; v. 259; p. 190.
- Casting, Centrifugal. D. S. de Lavaud. No. 1,293,049; Feb. 4; v. 259; p. 18.
- Casting, Centrifugal. D. S. de Lavaud. No. 1,320,744; Nov. 4; v. 268; p. 72.
- Casting chain-links, Apparatus for. W. P. Cunningham. No. 1,312,955; Aug. 12; v. 265; p. 240.
- Casting chains. W. Lewis. No. 1,307,136; June 17; v. 263; p. 419.
- Casting device. W. Luxmore. No. 1,313,602; Aug. 19; v. 265; p. 381.
- Casting gold inlays, Apparatus for. A. A. Lawry. No. 1,290,250; Jan. 7; v. 258; p. 57.
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- Casting high-fusing metals, Apparatus for. C. Laing. No. 1,307,299; June 17; v. 263; p. 449.
- Casting high-speed tools, Alloy for steel for. M. S. Clawson. No. 1,315,468; Sept. 9; v. 266; p. 192.
- Casting ingots. R. A. Hadfield. No. 1,310,072; July 15; v. 264; p. 446.
- Casting-machine. E. H. Acton, F. E. Dickle, and T. Pratt. No. 1,316,471; Sept. 16; v. 266; p. 391.
- Casting-machine. J. Burkhardt. No. 1,308,926; July 8; v. 264; p. 197.
- Casting-machine. W. G. E. Harvey. No. 1,320,228; Oct. 28; v. 267; p. 597.
- Casting-machine. M. O. Held. No. 1,318,558; Oct. 14; v. 267; p. 233.
- Casting-machine. F. W. Stokes. No. 1,302,448; Apr. 29; v. 261; p. 931.
- Casting-machine. F. W. Stokes. No. 1,304,118; May 20; v. 262; p. 370.
- Casting-machine. F. W. Stokes. No. 1,309,823; July 15; v. 264; p. 401.
- Casting-machine. J. S. Thompson and J. Bast. No. 1,294,572; Feb. 18; v. 259; p. 439.
- Casting-machine, Centrifugal. P. L. Gill. No. 1,324,660; Dec. 9; v. 269; p. 317.
- Casting-machine, Centrifugal. F. H. Wolever. No. 1,317,120; Sept. 23; v. 266; p. 561.
- Casting-machine, Continuous. G. Mellen. No. 1,321,165; Nov. 11; v. 268; p. 309.
- Casting machine, Metal. L. Mandelstamm. No. 1,309,534; July 8; v. 264; p. 310.
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- Casting machine, Ring and like. W. A. Oubridge. No. 1,325,039; Dec. 16; v. 269; p. 448.
- Casting machine, Slug-. W. S. Coe. No. 1,304,660; May 27; v. 262; p. 513.
- Casting machine, Slug-. J. S. Thompson. No. 1,290,805; Jan. 7; v. 258; p. 190.
- Casting machine, Vertical. F. H. Wolever. No. 1,316,992; Sept. 23; v. 266; p. 536.
- Casting machines, Changing apparatus for centrifugal. J. B. Ladd. No. 1,307,823; June 24; v. 263; p. 577.
- Casting machines, Matrix-holder for type-. F. H. Pierpont. No. 1,307,698; June 24; v. 263; p. 555.
- Casting molten metal. A. R. Earnshaw. No. 1,323,583; Dec. 2; v. 269; p. 68.
- Casting patterns and match-plates. H. W. Pleister. No. 1,291,120; Jan. 14; v. 258; p. 290.
- Casting process. C. Pack. No. 1,302,958; May 6; v. 262; p. 91.
- Casting process. C. Pack. No. 1,321,470; Nov. 11; v. 268; p. 274.
- Casting reinforced-concrete vessels, Apparatus for. H. Alfson. No. 1,301,892; Apr. 29; v. 261; p. 824.
- Casting, Reproducing destructible objects by. R. J. Davidson. No. 1,325,004; Dec. 16; v. 269; p. 442.
- Casting-separating machine. M. B. Murray. No. 1,297,486; Mar. 18; v. 260; p. 436.
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- Casting steel ingots, Apparatus for. F. J. Droegge. No. 1,299,148; Apr. 1; v. 261; p. 121.
- Casting, Stop-. W. A. Geiger. No. 1,314,188; Aug. 26; v. 265; p. 525.
- Casting, Stop-. J. F. O'Connor. No. 1,290,308; Jan. 7; v. 258; p. 71.
- Casting, Stop-. J. F. O'Connor. No. 1,293,890; Feb. 11; v. 259; p. 244.
- Castings and its product, Producing solid. J. B. Walker. No. 1,294,209; Feb. 11; v. 259; p. 319.
- Castings and making same. J. H. Bamberg. No. 1,296,589; Mar. 4; v. 260; p. 173.
- Castings and making the same, Core and mold for metal. J. J. Fahey. No. 1,315,293; Sept. 9; v. 266; p. 160.
- Castings and their products, Producing composite. W. C. Norcross. No. 1,316,635; Sept. 23; v. 266; p. 470.
- Castings, Composition for mending fissures in. W. F. Singer. No. 1,291,207; Jan. 14; v. 258; p. 309.
- Castings, Forming and pricking sand molds for. A. E. Archer. No. 1,300,103; Apr. 8; v. 261; p. 364.
- Castings, Forming cores for hollow. A. W. Finlayson. No. 1,303,785; May 13; v. 262; p. 272.
- Castings, Making. A. B. Norton. No. 1,296,595; Mar. 4; v. 260; p. 174.
- Castings, Pouring-head and skim-gate for. W. J. Alford. No. 1,324,021; Dec. 9; v. 269; p. 195.
- Castings, Straightening metallic. B. Weber. No. 1,294,732; Feb. 18; v. 259; p. 476.
- Catalogue. W. D. Gregory. No. 1,319,386; Oct. 21; v. 267; p. 416.
- Catalysis. C. Ellis. No. 1,300,144; Apr. 8; v. 261; p. 373.
- Catalysis, Regulating. B. E. Eldred and G. Mersereau. No. 1,308,777; July 8; v. 264; p. 169.
- Catalyst. H. K. Moore. No. 1,326,767; Dec. 30; v. 269; p. 825.
- Catalysts for hydrogenation, Electrically preparing. C. Ellis. No. 1,299,565; Apr. 8; v. 261; p. 244.
- Catalytic material and the saturation of fatty acids or their glycerids with hydrogen, Production of. H. J. Morrison. No. 1,299,004; Apr. 1; v. 261; p. 89.
- Catalyzer. A. Henwood. No. 1,309,623; July 15; v. 264; p. 364.
- Catalyzer and making, Nickel-formate. C. Ellis. No. 1,296,496; Mar. 4; v. 260; p. 151.
- Catalyzer for oxidizing reactions. C. Ellis. No. 1,314,952; Sept. 2; v. 266; p. 87.
- Catalyzer, Production of nickel. W. P. Schuck. No. 1,305,173; May 27; v. 262; p. 609.
- Catalyzers containing nickel and its compounds for the hydrogenation of fatty bodies, &c., Regenerating. G. N. Vis. No. 1,306,871; June 17; v. 263; p. 371.
- Catalyzing agents of particular efficiency, Manufacture of. E. Granichsteden. No. 1,314,642; Sept. 2; v. 266; p. 32.
- Catalyzing material. E. Weintraub. No. 1,299,641; Apr. 8; v. 261; p. 261.
- Catamenial appliance. E. Steele. No. 1,300,510; Apr. 15; v. 261; p. 478.
- Catamenial bandage. A. T. Van Alstyn. (Reissue.) No. 14,722; Sept. 9; v. 266; p. 277.
- Catch. F. Burns. No. 1,300,570; Apr. 15; v. 261; p. 491.
- Catch. J. Q. Leavitt. No. 1,321,927; Nov. 18; v. 268; p. 410.
- Catch. F. D. Lewis. No. 1,290,254; Jan. 7; v. 258; p. 58.
- Catch-basins, Cleaning apparatus for. P. J. Healey. No. 1,325,638; Dec. 23; v. 269; p. 577.
- Catch-basins, Portable apparatus for cleaning out. G. W. Otterson. No. 1,295,056; Feb. 18; v. 259; p. 550.
- Catch, Brooch safety-. C. J. Kraft. No. 1,296,405; Mar. 4; v. 260; p. 133.
- Catch for jewelry, Safety-. T. F. Murphy. No. 1,300,856; Apr. 15; v. 261; p. 550.
- Catch for pins, brooches, and the like, Safety-. C. L. Parker. No. 1,313,010; Aug. 12; v. 265; p. 252.
- Catch, Mechanical. F. O. Liming. No. 1,291,033; Jan. 14; v. 258; p. 269.
- Catch, Safety-. C. A. Gooney. No. 1,321,621; Nov. 11; v. 268; p. 302.
- Catching and packing mechanism. L. C. Steele. No. 1,305,501; June 3; v. 263; p. 51.
- Caterpillar-catcher. J. A. Manseau. No. 1,311,001; July 22; v. 264; p. 647.
- Caterpillar-wheel. J. M. Schutz. No. 1,319,120; Oct. 21; v. 267; p. 364.
- Cathode device, Incandescent. W. D. Coolidge. No. 1,326,029; Dec. 23; v. 269; p. 650.
- Cathode-rays, Method and means for the utilization of the thermic effect of. A. Sinding-Larsen. No. 1,326,794; Dec. 30; v. 269; p. 831.
- Cattle-aligning device. A. V. Rowe. No. 1,301,503; Apr. 22; v. 261; p. 719.
- Cattle-guard. T. M. Fisher. No. 1,320,217; Oct. 28; v. 267; p. 595.
- Cattle-guard. C. F. Hatley. No. 1,294,659; Feb. 18; v. 259; p. 459.
- Cattle-guard. C. F. Hatley. No. 1,299,462; Apr. 8; v. 261; p. 221.
- Cattle-guard. W. A. Land. No. 1,305,907; June 3; v. 263; p. 128.
- Cattle-guard. L. McConnell. No. 1,312,793; Aug. 12; v. 265; p. 209.
- Cattle-guard. F. H. McLean, J. Seline, and B. J. Reddeck. No. 1,298,527; Mar. 25; v. 260; p. 686.
- Cattle-guard. S. I. Smith. No. 1,314,910; Sept. 2; v. 266; p. 80.
- Cattle-guard. E. H. Underwood. No. 1,326,622; Dec. 30; v. 269; p. 798.
- Cattle-stanchion. E. R. Teske. No. 1,320,943; Nov. 4; v. 268; p. 110.
- Caustic material in subdivided form. R. P. Perry. No. 1,312,201; Aug. 5; v. 265; p. 66.
- Causticized ligneous acetate material and making same. V. Drewsen. No. 1,298,480; Mar. 25; v. 260; p. 674.
- Causticized organic material and making same. N. Statham. No. 1,298,594; Mar. 25; v. 260; p. 699.
- Ceiling-setting apparatus, Ornamental-. J. M. Grier. No. 1,314,325; Aug. 26; v. 265; p. 552.
- Celery-trencher. C. P. Wallick. No. 1,316,987; Sept. 23; v. 266; p. 535.
- Cell-case. H. T. Cherry and J. R. Carter. No. 1,326,184; Dec. 30; v. 269; p. 715.
- Cell-case. H. T. Cherry and J. R. Carter. No. 1,326,185; Dec. 30; v. 269; p. 716.
- Cell-case machine. A. W. D. Weis and J. Starman. No. 1,290,816; Jan. 7; v. 258; p. 193.
- Cell-case machine. A. W. D. Weis and J. Starman. No. 1,296,887; Mar. 11; v. 260; p. 278.
- Cell, Dry. A. W. Schorger. No. 1,316,597; Sept. 23; v. 266; p. 463.
- Cell-plate. T. Majima. No. 1,307,407; June 24; v. 263; p. 502.
- Cell, Reserve dry. A. Landau. No. 1,317,139; Sept. 23; v. 266; p. 564.
- Cells, Manufacture of dry. C. F. Burgess. No. 1,305,250; June 3; v. 263; p. 4.
- Cells, Manufacture of dry. C. F. Burgess. No. 1,305,251; June 3; v. 263; p. 4.
- Cells, Manufacture of dry. C. F. Burgess. No. 1,305,252; June 3; v. 263; p. 4.
- Celluloid and the like, Machine for shaping and polishing articles of. W. Gurry. No. 1,310,071; July 15; v. 264; p. 446.
- Celluloid article of manufacture and producing same. H. Segall. No. 1,322,631; Nov. 25; v. 268; p. 595.
- Celluloid, Manufacture of non-inflammable. H. Dreyfus. No. 1,315,480; Sept. 9; v. 266; p. 194.
- Celluloid, Manufacture of unflammable. H. Dreyfus. No. 1,325,931; Dec. 23; v. 269; p. 632.
- Cellulose-acetate composition. J. M. Kessler. No. 1,303,563; May 13; v. 262; p. 231.
- Cellulose compound, Non-inflammable. W. G. Lindsay. No. 1,319,229; Oct. 21; v. 267; p. 386.
- Cellulose-digesters, Circulating apparatus for. A. G. Westad and E. L. Hägg. No. 1,309,267; July 8; v. 264; p. 260.
- Cellulose, Dissolving. Z. Ostenberg. No. 1,315,393; Sept. 9; v. 266; p. 178.
- Cellulose-ester composition. H. T. Clarke. No. 1,309,980; July 15; v. 264; p. 430.
- Cellulose-ester dope or varnish. J. N. Goldsmith. No. 1,298,199; Mar. 25; v. 260; p. 615.
- Cellulose esters with over twenty per cent. of bound fatty acid, Making. A. Polotsky. No. 1,296,847; Mar. 11; v. 260; p. 268.
- Cellulose formations, Producing. P. Minck. No. 1,317,306; Sept. 30; v. 266; p. 632.
- Cellulose, Making. B. Loomis. No. 1,311,980; Aug. 5; v. 265; p. 24.
- Cellulose, Manufacture of. V. P. Edwardes. No. 1,310,694; July 22; v. 264; p. 591.
- Cellulose, Manufacture of. E. Morterud. No. 1,299,597; Apr. 8; v. 261; p. 251.
- Cellulose-nitrate composition. H. T. Clarke. No. 1,309,981; July 15; v. 264; p. 430.



- Cellulose solvent. G. Mersereau. No. 1,308,803; July 8; v. 264; p. 174.
- Cellulose, Treating. R. H. Clayton, J. Huebner, and H. E. Williams. No. 1,301,652; Apr. 22; v. 261; p. 746.
- Cement. H. B. Booth. No. 1,321,085; Nov. 11; v. 268; p. 200.
- Cement and concrete work, Reinforcing element for. F. G. Jordan. No. 1,294,278; Feb. 11; v. 259; p. 335.
- Cement and resulting product, Treating Portland. H. Blumenberg, Jr. No. 1,296,467; Mar. 4; v. 260; p. 145.
- Cement and soluble potassium compounds, Obtaining. C. Ellis. (Reissue.) No. 14,773; Dec. 23; v. 269; p. 674.
- Cement, Apparatus for manufacture of Portland. R. W. Lesley. No. 1,323,293; Dec. 2; v. 269; p. 13.
- Cement-brick machine. H. K. Browning. No. 1,294,042; Feb. 11; v. 259; p. 280.
- Cement-catching receptacle. G. E. Palmer. No. 1,300,000; Apr. 8; v. 261; p. 341.
- Cement composition. A. A. Bennett. No. 1,310,520; July 22; v. 264; p. 559.
- Cement composition. C. M. King. No. 1,323,597; Dec. 2; v. 269; p. 70.
- Cement composition, Machine for rolling asbestos. R. V. Mattison, Jr. No. 1,321,384; Nov. 11; v. 268; p. 258.
- Cement - fiber board, Making. J. E. Lappen. No. 1,297,480. Mar. 18; v. 260; p. 435.
- Cement-kiln-dust leaching process. E. Anderson. No. 1,298,154; Mar. 25; v. 260; p. 605.
- Cement-kiln dust, Utilization of. R. J. Nestell. No. 1,307,920; June 24; v. 263; p. 595.
- Cement-kiln gases and the recovery of dust therefrom, Process and apparatus for cooling. L. Stevens. No. 1,315,254; Sept. 9; v. 266; p. 153.
- Cement, Making. H. D. Baylor. No. 1,323,952; Dec. 2; v. 269; p. 137.
- Cement, Making. H. D. Baylor. No. 1,323,953; Dec. 2; v. 269; p. 137.
- Cement-making process. W. M. A. Johnson. No. 1,297,297; Mar. 11; v. 260; p. 368.
- Cement, Manufacture of Keene's. J. C. Best. No. 1,304,148; May 20; v. 262; p. 376.
- Cement, Manufacture of Portland. C. Pontoppidan. No. 1,320,172; Oct. 28; v. 267; p. 587.
- Cement, Manufacture of quick-setting Keene's. W. Hoskins. No. 1,300,269; Apr. 15; v. 261; p. 426.
- Cement, Method of and apparatus for testing. W. G. Skinner. No. 1,309,702; July 15; v. 264; p. 379.
- Cement-pipe machine. J. H. Carr. No. 1,292,250; Jan. 21; v. 258; p. 592.
- Cement sheets, Mechanism for applying dry color to asbestos-. R. V. Mattison, Jr. No. 1,326,362; Dec. 30; v. 269; p. 749.
- Cement, Toxic. H. Blumenberg, Jr. No. 1,296,468; Mar. 4; v. 260; p. 145.
- Cement with other ingredients, Method of and apparatus for mixing. N. C. Johnson. No. 1,318,282; Oct. 7; v. 267; p. 119.
- Cementing. A. S. Funk. No. 1,316,295; Sept. 16; v. 266; p. 357.
- Cementing apparatus. J. W. Cosgrove. No. 1,325,623; Dec. 23; v. 269; p. 574.
- Cementing device. M. A. Replogle. No. 1,316,805; Sept. 23; v. 266; p. 502.
- Cementing-machine. J. W. Cosgrove. No. 1,315,947; Sept. 16; v. 266; p. 293.
- Cementing-machine. J. W. Cosgrove. No. 1,318,480; Oct. 14; v. 267; p. 218.
- Cementing-machine. S. Galarie, H. Milkewitz, and L. Galarie. No. 1,318,661; Oct. 14; v. 267; p. 252.
- Cementing-machine. I. L. Keith. No. 1,311,605; July 29; v. 264; p. 793.
- Cementing-machine. H. G. McMurray. No. 1,293,147; Feb. 4; v. 259; p. 40.
- Cementing-machine. H. Milkewitz, L. Galarie, and S. Galarie. No. 1,318,683; Oct. 14; v. 267; p. 256.
- Cementitious composition and preparing same. C. Cattlett. No. 1,308,932; July 8; v. 264; p. 198.
- Cementitious products, Mixing apparatus for making. L. M. Reed. No. 1,317,942; Oct. 7; v. 267; p. 53.
- Center-indicator. J. H. Boisvert. No. 1,295,103; Feb. 25; v. 259; p. 585.
- Centering. W. M. Belt and H. C. Smith. No. 1,314,040; Aug. 26; v. 265; p. 497.
- Centering device. R. S. Hammond. No. 1,323,266; Dec. 2; v. 269; p. 8.
- Centering-gage. R. L. Carter. No. 1,302,131; Apr. 29; v. 261; p. 869.
- Centering mechanism. A. Lindner. No. 1,315,711; Sept. 9; v. 266; p. 234.
- Centrifugal amalgamator. S. G. Musser. No. 1,317,986; Oct. 7; v. 267; p. 62.
- Centrifugal apparatus and shaping plastic material. R. P. Perry. No. 1,293,535; Feb. 4; v. 259; p. 130.
- Centrifugal concentrator. C. Schifferle. No. 1,322,139; Nov. 18; v. 268; p. 449.
- Centrifugal die-casting machine. L. Olsen. No. 1,302,838; May 6; v. 262; p. 68.
- Centrifugal drying-machine. T. A. Bryson. No. 1,311,871; Aug. 5; v. 265; p. 4.
- Centrifugal extractor. F. M. Watkins. No. 1,325,064; Dec. 16; v. 269; p. 453.
- Centrifugal-extractor detachable cover. R. M. Smith. No. 1,299,866; Apr. 8; v. 261; p. 313.
- Centrifugal governor. J. E. Englesson. No. 1,313,175; Aug. 12; v. 265; p. 284.
- Centrifugal machine. T. A. Bryson. No. 1,298,451; Mar. 25; v. 260; p. 668.
- Centrifugal machine. A. H. Gibson. No. 1,319,150; Oct. 21; v. 267; p. 372.
- Centrifugal machine. G. D. Grosner. No. 1,302,031; Apr. 29; v. 261; p. 851.
- Centrifugal machine. E. D. Mackintosh. No. 1,321,766; Nov. 11; v. 268; p. 330.
- Centrifugal machine. E. D. Mackintosh. No. 1,321,767; Nov. 11; v. 268; p. 330.
- Centrifugal machine. L. Rasch. No. 1,304,905; May 27; v. 262; p. 559.
- Centrifugal machine. R. A. Sturgeon. No. 1,304,621; May 27; v. 262; p. 506.
- Centrifugal-machine attachment. J. N. S. Williams. No. 1,304,840; May 27; v. 262; p. 547.
- Centrifugal-machine bearing. L. Griscom. No. 1,305,796; June 3; v. 263; p. 107.
- Centrifugal-machine discharger. E. D. Mackintosh. No. 1,326,411; Dec. 30; v. 269; p. 758.
- Centrifugal machines, Lining for. E. D. Mackintosh. No. 1,313,227; Aug. 12; v. 265; p. 294.
- Centrifugal mixers, Mixing-cup for. C. E. Laing. No. 1,322,492; Nov. 18; v. 268; p. 517.
- Centrifugal process and device. K. B. Howell. No. 1,294,909; Feb. 18; v. 259; p. 517.
- Centrifugal separator. G. M. Bacon. No. 1,321,353; Nov. 11; v. 268; p. 252.
- Centrifugal separator. E. A. Baylis. No. 1,308,271; July 1; v. 264; p. 48.
- Centrifugal separator. W. S. Estep. No. 1,307,000; June 17; v. 263; p. 395.
- Centrifugal separator. P. T. Sharples. No. 1,320,419; Nov. 4; v. 268; p. 12.
- Centrifugal-separator bowl-shell. S. H. Hall. No. 1,290,983; Jan. 14; v. 258; p. 258.
- Centrifugal separator, Continuous. L. M. Mulet. No. 1,309,651; July 15; v. 264; p. 369.
- Centrifugal separators, Automatic control for. G. M. Bacon. No. 1,321,354; Nov. 11; v. 268; p. 252.
- Centrifugal separators, Lubricating means for. M. Leitch. No. 1,305,813; June 3; v. 263; p. 110.
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- Ceramic and similar material, Method of and apparatus for treating. J. T. Underwood. No. 1,298,125; Mar. 28; v. 260; p. 599.
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- Cereal-roaster. S. I. Bean and R. M. Bizzell. No. 1,302,124; Apr. 29; v. 261; p. 868.
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- Certificate, Commercial. N. R. Jesup. No. 1,311,698; July 29; v. 264; p. 810.
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- Certificates, pictures, &c., Exhibiting device for. W. M. Hedrick and E. G. Ervin. No. 1,323,982; Dec. 2; v. 269; p. 143.
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- Chains, Attaching device for non-skid. B. F. Knobloch. No. 1,290,579; Jan. 7; v. 258; p. 136.
- Chains, Cross-link fastener for non-skid. C. H. Widstrand. No. 1,300,078; Apr. 8; v. 261; p. 358.
- Chains, Device for taking up slack in sprocket-. D. D. Zanes. No. 1,308,570; July 1; v. 264; p. 103.
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- Chains, Spoke-clamp for non-skid. R. T. Torkelson. No. 1,304,122; May 20; v. 262; p. 371.
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- Adjustable chair. Opera-chair.
- Baby-chair. Operator's chair.
- Baby and commode chair. Orthopedic chair.
- Baby walking-chair. Rail-chair.
- Barber-chair. Rail-joint chair.
- Bathing-chair. Reclining-chair.
- Canopy-chair. Rocking-chair.
- Collapsible chair. Rolling-chair.
- Combination-chair. School-chair.
- Convertible chair. Self-leveling chair.
- Folding chair. Shoe-shining chair.
- High chair. Swiveled and tilting chair.
- Industrial chair. Table-chair.
- Invalid-chair. Theater-chair.
- Invalid's chair. Walking-chair.
- Multiform chair. Wheel-chair.
- Nursery-chair.
- Chair, W. E. Andrew. No. 1,297,431; Mar. 18; v. 260; p. 425.
- Chair. E. Berninghaus. No. 1,307,108; June 17; v. 263; p. 415.
- Chair. A. B. Bostwick. No. 1,312,720; Aug. 12; v. 265; p. 348.
- Chair. F. Brown. No. 1,320,838; Nov. 4; v. 268; p. 90.
- Chair. G. F. Cluff, Jr. No. 1,291,413; Jan. 14; v. 258; p. 358.
- Chair. A. Givner. No. 1,301,429; Apr. 22; v. 261; p. 705.
- Chair. P. W. Hirsch. No. 1,324,503; Dec. 9; v. 269; p. 287.
- Chair. G. M. Kim. No. 1,300,622; Apr. 15; v. 261; p. 501.
- Chair. W. I. Kirk. No. 1,291,551; Jan. 14; v. 258; p. 389.
- Chair. L. P. Koerner. No. 1,326,275; Dec. 30; v. 269; p. 733.
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- Chair. J. V. Palmer. No. 1,301,001; Apr. 15; v. 261; p. 581.
- Chair. W. S. Parker. No. 1,293,530; Feb. 4; v. 259; p. 129.
- Chair. W. J. Parsons. No. 1,314,830; Sept. 2; v. 266; p. 67.
- Chair. L. H. Peavy. No. 1,318,403; Oct. 14; v. 267; p. 203.
- Chair. C. A. Robinson. No. 1,291,150; Jan. 14; v. 258; p. 297.
- Chair. C. J. Ulmann. No. 1,303,994; May 20; v. 262; p. 194.
- Chair. A. Wanner, Jr. No. 1,324,186; Dec. 9; v. 269; p. 225.
- Chair. A. Wiley. No. 1,325,548; Dec. 23; v. 269; p. 561.
- Chair and bed, Combination. E. Hansen. No. 1,297,683; Mar. 18; v. 260; p. 479.
- Chair and desk attachment. T. E. McNulty. No. 1,291,975; Jan. 21; v. 258; p. 525.
- Chair and desk or table, Combined. A. H. Thompson. No. 1,293,246; Feb. 4; v. 259; p. 63.
- Chair and fan, Combined. E. Cattinari. No. 1,302,010; Apr. 29; v. 261; p. 847.
- Chair and hammock, Combined. J. Ross. No. 1,317,106; Sept. 23; v. 266; p. 558.
- Chair and ironing-board, Combined. R. Schmidt. No. 1,307,420; June 24; v. 263; p. 504.
- Chair and play-table, Child's combined rotary. S. J. Pocock. No. 1,313,330; Aug. 19; v. 265; p. 329.
- Chair-arm structure. E. Berninghaus. No. 1,326,165; Dec. 30; v. 269; p. 712.
- Chair attachment. C. E. Kanode. No. 1,317,580; Sept. 30; v. 266; p. 685.
- Chair attachment for tables. G. C. Lancaster. No. 1,303,921; May 20; v. 262; p. 335.
- Chair-base. T. W. Foote. No. 1,303,646; May 13; v. 262; p. 246.
- Chair, Combination-. F. Karschitz. No. 1,305,221; May 27; v. 262; p. 618.
- Chair construction. C. I. Lattig. No. 1,295,043; Feb. 18; v. 259; p. 547.
- Chair-cover. L. E. Dwyer. No. 1,304,753; May 27; v. 262; p. 530.
- Chair-iron. H. W. Bolens. No. 1,297,436; Mar. 18; v. 260; p. 426.
- Chair-iron. W. Loeffler. No. 1,316,621; Sept. 16; v. 266; p. 468.
- Chair-iron. A. White. No. 1,305,042; May 27; v. 262; p. 585.
- Chair-irons, Sheet-metal hub for. O. Elton. No. 1,316,089; Sept. 16; v. 266; p. 319.
- Chair-leg, Multiform. C. E. Barnes. No. 1,297,059; Mar. 11; v. 260; p. 317.
- Chair or seat, Folding. E. P. Elzey. No. 1,325,359; Dec. 16; v. 269; p. 508.
- Chair-recliner, Adjustable. D. Brandfon. No. 1,309,012; July 8; v. 264; p. 213.
- Chair-seat. J. Goldstein. No. 1,302,536; May 6; v. 262; p. 11.
- Chair, swing, stool, and cradle, Convertible. H. F. Krieger. No. 1,301,713; Apr. 22; v. 261; p. 759.
- Chairs, Attachment for barber-. J. Baron and H. Greenwood. No. 1,306,211; June 10; v. 263; p. 215.
- Chairs, couches, or the like. A. Glenister. No. 1,301,836; Apr. 29; v. 261; p. 813.
- Chairs, Footrest for rocking-. J. Melnick. No. 1,314,089; Aug. 26; v. 265; p. 507.
- Chairs, Trousers-stretching attachment to. O. B. Hellstrom. No. 1,308,755; July 8; v. 264; p. 165.
- Chalk-line container. C. M. Propst. No. 1,324,171; Dec. 9; v. 269; p. 223.
- Chalk-line reel. F. S. Young. No. 1,297,959; Mar. 18; v. 260; p. 538.
- Chandelier apparatus. C. E. Jones. No. 1,290,569; Jan. 7; v. 258; p. 134.
- Change-making apparatus. E. P. Parker. No. 1,302,961; May 6; v. 262; p. 92.
- Change-making machine. E. G. Johanson. No. 1,318,762; Oct. 14; v. 267; p. 271.
- Change-making machine. R. J. Regan. No. 1,293,548; Feb. 4; v. 259; p. 133.
- Change-speed and reversing mechanism, Control device for. G. Roesch. No. 1,302,593; May 6; v. 262; p. 21.



- Change-speed device. W. Dorion. No. 1,318,733; Oct. 14; v. 267; p. 266.
- Change-speed device. C. A. Hurtig and G. R. Taylor. No. 1,304,052; May 20; v. 262; p. 359.
- Change-speed gearing, Automatic. S. A. Ellett. No. 1,320,460; Nov. 4; v. 268; p. 19.
- Change web-roll mechanism. S. G. Goss. No. 1,301,122; Apr. 22; v. 261; p. 644.
- Channel-closing machine. J. B. Hadaway. No. 1,295,891; Mar. 4; v. 260; p. 16.
- Channel-furnace. E. E. Brand. No. 1,291,748; Jan. 21; v. 258; p. 466.
- Channeling-machine. H. H. Mercer. No. 1,304,524; May 20; v. 262; p. 450.
- Channeling machine, Stone-. G. D. Hunter. No. 1,313,821; Aug. 19; v. 265; p. 422.
- Chaplet. P. L. Geer. No. 1,304,959; May 27; v. 262; p. 568.
- Chaplet. D. C. Mulvihill. No. 1,325,749; Dec. 23; v. 269; p. 598.
- Charcoal-burner. W. M. Baxter. (Reissue.) No. 1,464,8; May 20; v. 262; p. 450.
- Charcoal, Pyre for the manufacture of. G. Beccari. No. 1,319,688; Oct. 28; v. 267; p. 496.
- Charge-firing pin. J. N. Swanson. No. 1,290,680; Jan. 7; v. 258; p. 162.
- Charge for containers intended to be exploded and forming said charge, Bursting. C. L. Reese. No. 1,309,588; July 8; v. 264; p. 321.
- Charge for containers intended to be exploded and forming said charges, Bursting. C. A. Woodbury. No. 1,309,558; July 8; v. 264; p. 315.
- Charge for containers intended to be exploded and forming said charges, Bursting. C. A. Woodbury. No. 1,312,464; Aug. 6; v. 265; p. 115.
- Charge-mixing device. F. C. Evans. No. 1,298,315; Mar. 25; v. 260; p. 639.
- Charge-preheater. T. R. Billings. No. 1,301,999; Apr. 29; v. 261; p. 845.
- Charging ingots in ovens, Apparatus for. E. Fuchs. No. 1,290,163; Jan. 7; v. 258; p. 36.
- Chart, Color-. A. S. Allen. No. 1,322,473; Nov. 18; v. 268; p. 513.
- Chart, Distance-. F. W. Bacon. No. 1,300,808; Apr. 15; v. 261; p. 541.
- Chart, Educational. J. E. McDade. No. 1,323,779; Dec. 2; v. 269; p. 104.
- Chart for naprapathic treatments. O. Smith. No. 1,290,388; Jan. 7; v. 258; p. 89.
- Chart for stringed instruments, Finger-positioning. C. D. Raff. No. 1,300,193; Apr. 8; v. 261; p. 384.
- Chart for teaching. C. H. Prager. No. 1,300,871; Apr. 15; v. 261; p. 554.
- Chart, Fraction-. A. E. Leslie. No. 1,292,816; Jan. 28; v. 258; p. 748.
- Chart, Genealogical. H. S. Davis. No. 1,297,663; Mar. 18; v. 260; p. 474.
- Chart, Indicative. H. G. Riemann. No. 1,293,928; Feb. 11; v. 259; p. 252.
- Chart, Musical educational. S. Siegel. No. 1,309,915; July 15; v. 264; p. 418.
- Chart, Parcel-post. T. West. No. 1,326,240; Dec. 30; v. 269; p. 726.
- Chart, Rhythm-. P. M. Barker. No. 1,319,919; Oct. 28; v. 267; p. 540.
- Chart, Valency-. W. C. Cooper. No. 1,308,167; July 1; v. 264; p. 29.
- Charts, maps, and plans, Indicating apparatus for. J. H. A. Morichard. No. 1,309,259; July 8; v. 264; p. 259.
- Chase. W. Young. No. 1,296,898; Mar. 11; v. 260; p. 280.
- Chassis construction. W. Krafve. No. 1,306,822; June 17; v. 263; p. 362.
- Chassis, Landing-. F. M. Green. No. 1,298,038; Mar. 25; v. 260; p. 580.
- Check. E. E. Schmidt. No. 1,316,651; Sept. 23; v. 266; p. 473.
- Check. J. Whitaker. No. 1,303,434; May 13; v. 262; p. 207.
- Check and holder therefor, Hat-. R. C. Leitch. No. 1,308,792; July 8; v. 264; p. 172.
- Check and the like. J. B. Moody. No. 1,291,077; Jan. 14; v. 258; p. 281.
- Check-book. T. J. Donnell. No. 1,305,781; June 3; v. 263; p. 104.
- Check, check-book holder, and cutter, Combined. J. F. Shoemaker. No. 1,305,941; June 3; v. 263; p. 135.
- Check-cutter and check-book holder. J. F. Shoemaker. No. 1,304,209; May 20; v. 262; p. 387.
- Check-cutter, Marginal. E. Trimble. No. 1,305,417; June 3; v. 263; p. 35.
- Check, Discount-savings. C. W. Boll. No. 1,300,693; Apr. 15; v. 261; p. 516.
- Check for vehicles, Vibration-. S. L. C. Coleman. No. 1,299,131; Apr. 1; v. 261; p. 117.
- Check-holder. W. S. Larcom. No. 1,309,327; July 8; v. 264; p. 272.
- Check-holder for tool-rooms. H. W. Obenauer. No. 1,305,739; June 3; v. 263; p. 96.
- Check holding and notching device. J. S. Arcus. (Reissue.) No. 1,458,4; Jan. 14; v. 258; p. 424.
- Check-issuing machine. W. L. Sullivan. No. 1,293,974; Feb. 11; v. 259; p. 263.
- Check-line attachment. H. W. Campbell. No. 1,315,703; Sept. 9; v. 266; p. 233.
- Check-line coupling. P. F. Somers. No. 1,303,735; May 13; v. 262; p. 262.
- Check machine for use in food service, Double-. E. D. Pratt. No. 1,318,918; Oct. 14; v. 267; p. 301.
- Check, Multiform train auditing-. H. H. Barsby and W. High. No. 1,320,112; Oct. 28; v. 267; p. 576.
- Check or coin control apparatus. C. C. Shigley. No. 1,310,549; July 22; v. 264; p. 564.
- Check-perforator. C. P. Spees. No. 1,303,124; May 6; v. 262; p. 123.
- Check, Pick-stick. J. W. Herbert and J. A. Andrewa. No. 1,322,789; Nov. 25; v. 268; p. 624.
- Check, Picker-. S. G. Webster. No. 1,325,065; Dec. 16; v. 269; p. 453.
- Check, Postal. C. M. Sain. No. 1,311,014; July 22; v. 264; p. 650.
- Check-printing machine. C. G. Tiefel and B. A. Weaver. No. 1,290,409; Jan. 7; v. 258; p. 95.
- Check-protector. R. W. Branson. No. 1,298,874; Apr. 1; v. 261; p. 59.
- Check-protector. L. W. Parker. No. 1,310,370; July 15; v. 264; p. 500.
- Check-protector. J. von Brethorst and F. W. Priestley. No. 1,316,414; Sept. 16; v. 266; p. 380.
- Check, Recoil-. J. W. Watson. No. 1,308,130; July 1; v. 264; p. 23.
- Check, Recoil-. J. W. Watson. No. 1,311,629; July 29; v. 264; p. 797.
- Check-register and expense-control book, Combined. F. R. Fuller. No. 1,325,248; Dec. 16; v. 269; p. 487.
- Check, Traveler's. J. F. McQueeney. No. 1,307,560; June 24; v. 263; p. 530.
- Checks and the like, Machine for protecting. C. H. Hasbrouck. No. 1,296,511; Mar. 4; v. 260; p. 155.
- Checks and the like, Machine for protecting. C. H. Hasbrouck. No. 1,301,127; Apr. 22; v. 261; p. 645.
- Checks and the like, Machine for protecting. C. H. Hasbrouck. No. 1,302,655; May 6; v. 262; p. 33.
- Checks or tickets, Holder for conductors. A. B. Fitch. No. 1,321,815; Nov. 18; v. 268; p. 390.
- Checking and recording the time of workmen and others. A. Dunhill. No. 1,294,248; Feb. 11; v. 259; p. 329.
- Checkwriter. B. O. Fanslow. No. 1,308,941; July 8; v. 264; p. 199.
- Checkwriter. C. G. Tiefel. No. 1,307,566; June 24; v. 263; p. 531.
- Checkwriter. C. G. Tiefel. No. 1,307,567; June 24; v. 263; p. 531.
- Checkwriter. C. G. Tiefel and A. C. La May. No. 1,293,986; Feb. 11; v. 259; p. 266.
- Checkwriter. L. Todd. No. 1,308,648; July 1; v. 264; p. 117.
- Checkwriter. L. M. Todd and C. G. Tiefel. No. 1,293,988; Feb. 11; v. 259; p. 267.
- Checkwriters, Computing mechanism for. G. F. Maisch. No. 1,311,526; July 29; v. 264; p. 779.
- Checkwriting machine. G. A. Errington. No. 1,348,149; July 1; v. 264; p. 26.
- Checkwriting machine. C. H. Sampson. No. 1,309,371; July 8; v. 264; p. 280.
- Checkwriting machine. C. G. Tiefel. No. 1,302,244; Apr. 29; v. 261; p. 890.
- Checkwriter. L. M. Todd, C. G. Tiefel, and A. C. La May. No. 1,299,521; Apr. 8; v. 261; p. 233.
- Checkwriter. G. M. Willis. No. 1,321,848; Nov. 11; v. 268; p. 251.
- Cheese and improved product produced by such process, Sterilizing. J. L. Kraft. (Reissue.) No. 1,477; Dec. 23; v. 269; p. 674.
- Cheese-box. D. S. Crosby. No. 1,308,893; July 8; v. 264; p. 190.
- Cheese-box. J. H. Wheeler. No. 1,312,772; Aug. 12; v. 265; p. 205.
- Cheese-curd mill. C. Junker. No. 1,309,525; July 8; v. 264; p. 308.
- Cheese-hoop. M. H. Reineking. No. 1,305,410; June 3; v. 263; p. 34.
- Cheese, Treating. J. L. Kraft. No. 1,323,869; Dec. 2; v. 269; p. 121.
- Chemical apparatus. E. Hart. No. 1,293,423; Feb. 4; v. 259; p. 105.
- Chemical changes by oscillatory discharge, Production of. E. F. Northrup. No. 1,297,393; Mar. 18; v. 260; p. 418.
- Chemical extinguishing apparatus, Emergency shut-off device for. J. R. Hamilton. No. 1,298,203; Mar. 25; v. 260; p. 615.
- Chemical heat-producing means. W. Elborne. No. 1,312,840; Aug. 12; v. 265; p. 218.
- Chemical processes by electrolysis, Device for carrying out. V. Gerber. No. 1,301,832; Apr. 29; v. 261; p. 812.
- Chemical reactions by means of magnetically-spread-out electric arcs, Method and apparatus for carrying out. A. V. Lipinski. No. 1,290,600; Jan. 7; v. 258; p. 141.
- Cherry-seeder. C. J. Schiemer. No. 1,318,081; Oct. 7; v. 267; p. 99.



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- Cherry-stoner. M. A. Rollman. No. 1,318,180; Oct. 7; v. 267; p. 99.
- Chest: See—  
Ice-chest.
- Chicken-coop, Folding. H. Lytle. No. 1,306,267; June 10; v. 263; p. 228.
- Child's play-table. E. G. Thomas. No. 1,309,343; July 8; v. 264; p. 274.
- Child's seat. D. B. Johnson. No. 1,297,177; Mar. 11; v. 260; p. 342.
- Chill-plate. A. M. Gray. No. 1,322,897; Nov. 25; v. 268; p. 643.
- Chimney-cleaner and safety device. C. Michels, Sr. No. 1,320,887; Nov. 4; v. 268; p. 100.
- Chimney, Incinerating. R. E. Oberst. No. 1,321,239; Nov. 11; v. 268; p. 230.
- Chimney-pot, flue-top, and the like. G. Lister. No. 1,312,996; Aug. 12; v. 265; p. 249.
- Chimney-sweep, Automatic. R. L. Hinman. No. 1,305,543; June 3; v. 263; p. 59.
- Chimney-sweeper. C. Campbell and J. A. Cameron. No. 1,297,090; Mar. 11; v. 260; p. 324.
- Chip-removing mechanism. A. Novick. No. 1,290,301; Jan. 7; v. 258; p. 70.
- Chipper and making same. R. B. Gilchrist. No. 1,305,711; June 3; v. 263; p. 91.
- Chiropractic table. L. T. Marshall. No. 1,301,071; Apr. 15; v. 261; p. 599.
- Chisel. P. Jurich. No. 1,321,272; Nov. 11; v. 268; p. 236.
- Chlorates by an electrolytic process, Apparatus for manufacturing. T. Ojwa. No. 1,297,395; Mar. 18; v. 260; p. 418.
- Chlorhydrins from olefins, Producing. K. P. McElroy. No. 1,315,229; Sept. 9; v. 266; p. 148.
- Chlorhydrins, Making. K. P. McElroy. No. 1,295,339; Feb. 25; v. 259; p. 63.
- Chlorid and the like, Making magnesium. E. O. Barstow. No. 1,305,641; June 3; v. 263; p. 79.
- Chlorid and the like, Making magnesium. E. O. Barstow. No. 1,305,642; June 3; v. 263; p. 79.
- Chlorid, Manufacture of aluminum. G. H. King and G. I. Roberts. No. 1,308,080; July 1; v. 264; p. 14.
- Chlorid, Manufacturing aluminum. J. R. Mardick. No. 1,325,203; Dec. 16; v. 269; p. 480.
- Chlorid, Producing aluminum. L. Burgess. No. 1,321,281; Nov. 11; v. 268; p. 238.
- Chlorids, Producing chlorin and sulfates from. F. Bergius. No. 1,326,634; Dec. 30; v. 269; p. 801.
- Chlorin and other gases, Process for compressing. L. L. Bianchini. No. 1,313,160; Aug. 12; v. 265; p. 281.
- Chlorin, Manufacture of. H. H. Meyers. No. 1,311,175; July 29; v. 264; p. 713.
- Chlorin, Producing. R. Datta. No. 1,310,943; July 22; v. 264; p. 637.
- Chlorinated derivatives of the N-dihydro-1,2,2',1'-anthraquinonazin, Manufacture of. A. Grob and J. Würger. No. 1,317,160; Sept. 30; v. 266; p. 605.
- Chlorinated products, Making. J. M. Moness. No. 1,308,763; July 8; v. 264; p. 167.
- Chlorination, Apparatus and process involved in. K. Brown. No. 1,294,230; Feb. 11; v. 259; p. 325.
- Chlorination, Continuous two-phase. H. T. Boyd. No. 1,293,012; Feb. 4; v. 259; p. 10.
- Chloroform, Manufacturing. H. H. Dow and W. O. Quayle. No. 1,311,329; July 29; v. 264; p. 742.
- Chock. H. W. Young. No. 1,291,341; Jan. 14; v. 258; p. 340.
- Chocolate-coating machine. A. L. Bausman. No. 1,323,948; Dec. 2; v. 269; p. 137.
- Chocolate-coating machine and the like. A. Pagliuca. No. 1,302,205; Apr. 29; v. 261; p. 883.
- Chocolate-heating apparatus. J. G. Rote. No. 1,304,101; May 20; v. 262; p. 367.
- Chocolate-refiners, Roll for. A. L. Bausman. No. 1,321,801; Nov. 18; v. 268; p. 387.
- Choke-removing appliance. O. G. Beck. No. 1,293,306; Feb. 4; v. 259; p. 78.
- Chopper: See—  
Cotton-chopper. Plant-chopper.
- Chopper, Cotton-. W. T. Goodman. No. 1,294,259; Feb. 11; v. 259; p. 330.
- Chopper-head, Rotatable. H. G. Dewey. No. 1,302,015; Apr. 29; v. 261; p. 848.
- Christmas-tree decoration. M. N. Armstrong. No. 1,302,754; May 6; v. 262; p. 51.
- Christmas trees, Illuminating means for. E. H. Moseman. No. 1,303,103; May 6; v. 262; p. 119.
- Chronometers and watches, Compensating balance-spring for. C. E. Guillaume. No. 1,313,291; Aug. 19; v. 265; p. 322.
- Chronoscope, Galvanometer-. P. E. Klopateg. No. 1,323,477; Dec. 2; v. 269; p. 48.
- Chuck. E. W. Bemis. No. 1,320,118; Oct. 28; v. 267; p. 576.
- Chuck. A. E. Church. No. 1,314,126; Aug. 26; v. 265; p. 514.
- Chuck. A. E. Church. No. 1,315,467; Sept. 9; v. 266; p. 192.
- Chuck. F. Cobey. No. 1,304,658; May 27; v. 262; p. 513.
- Chuck. F. Cobey. No. 1,304,659; May 27; v. 262; p. 513.
- Chuck. F. Cobey. No. 1,310,409; July 22; v. 264; p. 539.
- Chuck. J. C. Dufresne. No. 1,305,257; June 3; v. 263; p. 5.
- Chuck. H. F. Foster. No. 1,292,747; Jan. 28; v. 258; p. 731.
- Chuck. A. Haltman. No. 1,321,739; Nov. 11; v. 268; p. 324.
- Chuck. A. J. Lavoie. No. 1,295,994; Mar. 4; v. 260; p. 39.
- Chuck. E. J. McClellan. No. 1,305,138; May 27; v. 262; p. 602.
- Chuck. R. F. Runge and S. Clifford. No. 1,320,361; Oct. 23; v. 267; p. 622.
- Chuck. E. E. Russell. No. 1,295,798; Feb. 25; v. 259; p. 745.
- Chuck, Collet-. H. C. Woglom. No. 1,302,619; May 6; v. 262; p. 28.
- Chuck, Countersink drill-. H. H. Cooper. No. 1,294,054; Feb. 11; v. 259; p. 283.
- Chuck, Drill-. E. Flicek. No. 1,326,654; Dec. 30; v. 269; p. 804.
- Chuck, Drill-. R. Knebel. No. 1,318,090; Oct. 7; v. 267; p. 81.
- Chuck, Gear-holding. A. B. Bolender. No. 1,290,885; Jan. 14; v. 258; p. 235.
- Chuck, Lathe-. F. C. Smart. No. 1,325,915; Dec. 23; v. 269; p. 629.
- Chuck, Lens-. J. H. Cossman. No. 1,296,050; Mar. 4; v. 260; p. 53.
- Chuck, Floating tool-. C. H. Allen. No. 1,322,474; Nov. 18; v. 268; p. 513.
- Chuck lifting and supporting device, Lathe-. H. Noffke. No. 1,316,634; Sept. 23; v. 266; p. 470.
- Chuck, Magnetic. W. Arter. No. 1,290,808; Jan. 14; v. 258; p. 230.
- Chuck, Magnetic. W. Arter. No. 1,312,092; Aug. 5; v. 265; p. 45.
- Chuck, Power-driven. C. O. Dominy. No. 1,309,355; July 8; v. 264; p. 277.
- Chuck, Reverse-jaw expansion-. W. H. Peck. No. 1,311,665; July 29; v. 264; p. 804.
- Chuck, Sandpaper-holder for. C. H. Pollock. No. 1,319,417; Oct. 21; v. 267; p. 422.
- Chuck, Square-hole drill-. C. F. Hathaway. No. 1,299,938; Apr. 8; v. 261; p. 328.
- Chuck, Tap-. J. C. Dufresne. No. 1,315,100; Sept. 2; v. 266; p. 115.
- Chuck, Tap and die. J. Velk. No. 1,290,427; Jan. 7; v. 258; p. 99.
- Chuck, Universal. J. E. Baines. No. 1,295,412; Feb. 25; v. 259; p. 655.
- Chucks, Fixture for magnetic. S. Karasick. No. 1,312,546; Aug. 12; v. 265; p. 160.
- Chucks, Fixture for use with magnetic. S. Karasick. No. 1,301,135; Apr. 22; v. 261; p. 647.
- Church-lamp oil-burner. D. P. Lopez. No. 1,311,569; July 29; v. 264; p. 787.
- Churn. F. Bee. No. 1,301,536; Apr. 22; v. 261; p. 724.
- Churn. H. J. Favorite. No. 1,306,177; June 10; v. 263; p. 208.
- Churn. W. Fletcher. No. 1,315,920; Sept. 9; v. 266; p. 274.
- Churn. E. L. Lomax. No. 1,320,881; Nov. 4; v. 268; p. 98.
- Churn. C. J. Zelvis. No. 1,296,899; Mar. 11; v. 260; p. 281.
- Churn and butter-worker, Combined. R. B. Disbrow. No. 1,322,675; Nov. 25; v. 268; p. 602.
- Churn-dash. W. W. Pyle. No. 1,292,643; Jan. 28; v. 258; p. 707.
- Churn-dasher. F. P. Bridges and L. L. Pritchett. No. 1,306,797; June 17; v. 263; p. 357.
- Churn-dasher. A. E. F. Holden. No. 1,296,663; Mar. 11; v. 260; p. 226.
- Churn-recoil stop. F. Chadima. No. 1,290,084; Jan. 7; v. 258; p. 17.
- Churn, Vibrating. J. E. Yount. No. 1,305,860; June 3; v. 263; p. 119.
- Churn, wash, &c., agitator. W. Kenley. No. 1,290,231; Jan. 7; v. 258; p. 53.
- Churns, Safety-guard for factory-. S. J. Van Kuren. No. 1,321,575; Nov. 11; v. 268; p. 293.
- Chute and entrance, Log. W. H. Sawyer. No. 1,290,668; Jan. 7; v. 258; p. 159.
- Chute, Car-unloading. J. N. Heltzel. No. 1,308,950; July 8; v. 264; p. 201.
- Chute, Coal-. F. E. Grosvold. No. 1,312,498; Aug. 5; v. 265; p. 121.
- Chute, Coal-. C. Schock. No. 1,311,622; July 29; v. 264; p. 796.
- Chute, Coal-mining. A. Malinowsky. No. 1,306,704; June 17; v. 263; p. 341.
- Chute construction, Adjustable. C. D. Heyer. No. 1,307,199; June 17; v. 263; p. 430.
- Chute for proportioning and forwarding materials. S. V. Joyce. No. 1,313,852; Aug. 19; v. 265; p. 428.
- Chute, Live-stock. G. W. Krahmer. No. 1,297,696; Mar. 18; v. 260; p. 482.
- Chute or conveyer, Fruit. S. G. Hull. No. 1,297,353; Mar. 18; v. 260; p. 409.



- Chute, Spiral. C. H. Lister. No. 1,312,995; Aug. 12; v. 265; p. 249.
- Chute-spring. W. G. Glaefcke. No. 1,316,441; Sept. 16; v. 266; p. 385.
- Chutes, Controlling-gate for unloading-. F. E. Arndt. No. 1,322,512; Nov. 25; v. 268; p. 572.
- Cigar and cigarette holder. A. P. Dourous. No. 1,290,524; Jan. 7; v. 258; p. 123.
- Cigar and cigarette holder. W. B. McCully. No. 1,294,815; Feb. 18; v. 259; p. 495.
- Cigar and cigarette holder and stub-ejector. E. F. Steele. No. 1,313,132; Aug. 12; v. 265; p. 276.
- Cigar-banding machine. I. A. Hardy. No. 1,292,409; Jan. 21; v. 258; p. 628.
- Cigar-box. O. W. Harms. No. 1,310,949; July 22; v. 264; p. 638.
- Cigar-box. E. A. Kline. No. 1,310,835; July 22; v. 264; p. 618.
- Cigar-box. H. J. Nagle. No. 1,319,788; Oct. 28; v. 267; p. 515.
- Cigar-box holder and lid-clamp. W. H. Witt. No. 1,320,434; Nov. 4; v. 268; p. 15.
- Cigar-box-lid holder. O. Carlson. No. 1,295,119; Feb. 25; v. 259; p. 588.
- Cigar-bunch-making machine. W. T. Green. No. 1,302,153; Apr. 29; v. 261; p. 873.
- Cigar-bunching machine. B. Liberman. No. 1,316,371; Sept. 16; v. 266; p. 372.
- Cigar-bunching machine. J. J. McCauley. No. 1,302,396; Apr. 29; v. 261; p. 920.
- Cigar-bunching machine. J. S. Winget. No. 1,296,724; Mar. 11; v. 260; p. 240.
- Cigar-bunching machine. J. S. Winget. No. 1,321,692; Nov. 11; v. 268; p. 315.
- Cigar-cap. S. M. J. Jacobs. No. 1,294,107; Feb. 11; v. 259; p. 295.
- Cigar-container. L. L. Campbell. No. 1,317,349; Sept. 30; v. 266; p. 640.
- Cigar-cutter. M. Henriot. No. 1,294,358; Feb. 11; v. 259; p. 353.
- Cigar-cutter. H. Kollmar. No. 1,294,479; Feb. 18; v. 259; p. 418.
- Cigar-cutter and match-dispenser. J. Nazarian. No. 1,292,853; Jan. 28; v. 258; p. 756.
- Cigar-cutter and match-server, Combination. P. J. Mandzuk. No. 1,293,153; Feb. 4; v. 259; p. 41.
- Cigar-cutters, Safety attachment for. E. W. Carroll. No. 1,313,467; Aug. 19; v. 265; p. 355.
- Cigar-cutting machine. M. C. Boesch. No. 1,321,591; Nov. 11; v. 268; p. 296.
- Cigar-holder. A. Geszty. No. 1,295,977; Mar. 4; v. 260; p. 36.
- Cigar-holder. E. W. Rittase. No. 1,308,113; July 1; v. 264; p. 20.
- Cigar-holder. J. N. Wells. No. 1,295,652; Feb. 25; v. 259; p. 712.
- Cigar-holder and ash-receptacle. F. A. Fuller. No. 1,312,530; Aug. 12; v. 265; p. 157.
- Cigar holder and protector. B. Davis. No. 1,320,037; Oct. 28; v. 267; p. 562.
- Cigar-lighter. D. V. Eichin. No. 1,296,056; Mar. 4; v. 260; p. 55.
- Cigar-lighter. J. Griunas. No. 1,294,795; Feb. 18; v. 259; p. 491.
- Cigar-lighter. C. F. Larsen. No. 1,325,894; Dec. 23; v. 269; p. 625.
- Cigar-lighter and ignition system. R. W. Sencenbaugh. No. 1,326,215; Dec. 30; v. 269; p. 722.
- Cigar-making machine. A. J. Colwell. No. 1,303,855; May 20; v. 262; p. 323.
- Cigar-marking machine. A. A. Grothé. No. 1,302,790; May 6; v. 262; p. 58.
- Cigar-vending machine. D. Allen. No. 1,297,775; Mar. 18; v. 260; p. 500.
- Cigar with self-contained holder. J. W. McAuliffe. No. 1,312,490; Aug. 5; v. 265; p. 120.
- Cigar-wrapper cutter and rolling table. B. Liberman. No. 1,318,776; Oct. 14; v. 267; p. 274.
- Cigars in boxes, Adjustable retainer for. L. C. Davidson. No. 1,304,266; May 20; v. 262; p. 398.
- Cigars, Means for bunching. B. Liberman. No. 1,318,777; Oct. 14; v. 267; p. 274.
- Cigars, Mouthpiece for. A. Cascia. No. 1,315,209; Sept. 9; v. 266; p. 145.
- Cigarette and cigar case. F. S. Russell. No. 1,290,663; Jan. 7; v. 258; p. 158.
- Cigarette and cigar case. F. S. Russell. No. 1,317,223; Sept. 30; v. 266; p. 616.
- Cigarette and cigar holder. G. E. Salmon and C. J. Volkman. No. 1,319,622; Oct. 21; v. 267; p. 461.
- Cigarette and cigar holders, Ejector for. J. A. Youngs. No. 1,314,456; Aug. 26; v. 265; p. 577.
- Cigarette and match box, Combined. A. Gilbert. No. 1,297,831; Mar. 18; v. 260; p. 510.
- Cigarette-case. K. E. Bemis. No. 1,323,442; Dec. 2; v. 269; p. 41.
- Cigarette-case. P. P. Corwin. No. 1,293,347; Feb. 4; v. 259; p. 87.
- Cigarette-case. J. Denmark. No. 1,305,699; June 3; v. 263; p. 89.
- Cigarette-case. A. S. Domeniconi. No. 1,310,652; July 22; v. 264; p. 584.
- Cigarette-case. G. L. Fischer. No. 1,299,162; Apr. 1; v. 261; p. 124.
- Cigarette-case. H. D. Hough. No. 1,301,698; Apr. 22; v. 261; p. 756.
- Cigarette-case. S. H. Johnson. No. 1,321,453; Nov. 11; v. 268; p. 271.
- Cigarette-case. A. H. Metcalf. No. 1,322,807; Nov. 25; v. 268; p. 627.
- Cigarette-case. T. B. Rice. No. 1,293,197; Feb. 4; v. 259; p. 51.
- Cigarette-case. F. Roth. No. 1,320,926; Nov. 4; v. 268; p. 107.
- Cigarette-case. C. Thomae. No. 1,325,594; Dec. 23; v. 269; p. 569.
- Cigarette-case, Trick. J. Erdey. No. 1,293,062; Feb. 4; v. 259; p. 21.
- Cigarette-container. O. L. Bard. No. 1,324,578; Dec. 9; v. 269; p. 301.
- Cigarette-holder. T. Fox. No. 1,290,960; Jan. 14; v. 258; p. 253.
- Cigarette-holder. T. Raje. No. 1,319,358; Oct. 21; v. 267; p. 410.
- Cigarette-holder. D. S. Tinnin. No. 1,309,707; July 15; v. 264; p. 379.
- Cigarette holder and shield. W. H. Parker and J. N. Thompson. No. 1,293,529; Feb. 4; v. 259; p. 129.
- Cigarette-machine, Continuous. N. Du Brul. No. 1,312,525; Aug. 12; v. 265; p. 156.
- Cigarette-machines, Band for shaping the string of tobacco in endwise-moving-filler. G. M. Wehner. No. 1,324,864; Dec. 16; v. 269; p. 417.
- Cigarette-machines, Cut-off mechanism for. S. I. Prescott. No. 1,310,631; July 22; v. 264; p. 580.
- Cigarette-maker. L. Friedberg. No. 1,307,003; June 17; v. 263; p. 395.
- Cigarette-maker. C. E. Hopkins. No. 1,315,838; Sept. 9; v. 266; p. 258.
- Cigarette-maker. C. G. Southmayd. No. 1,299,050; Apr. 1; v. 261; p. 100.
- Cigarette-maker and tobacco-container. F. E. White. No. 1,300,311; Apr. 15; v. 261; p. 435.
- Cigarette making and forming device. H. J. Mondor. No. 1,296,548; Mar. 4; v. 260; p. 164.
- Cigarette-making device. A. Poli. No. 1,304,598; May 27; v. 262; p. 501.
- Cigarette-making machine. J. G. Chalmers. No. 1,316,830; Sept. 23; v. 266; p. 506.
- Cigarette-package. B. G. Whitfield. No. 1,294,584; Feb. 18; v. 259; p. 441.
- Cigarette-packet forming and filling machine. A. Godfrey. No. 1,298,328; Mar. 25; v. 260; p. 642.
- Cigarette-packing apparatus. S. Feldman. No. 1,295,722; Feb. 25; v. 259; p. 727.
- Cigarette-tipping machine. E. D. Smith. No. 1,305,313; June 3; v. 263; p. 16.
- Cinematograph. L. S. Stiles. No. 1,308,875; July 8; v. 264; p. 187.
- Cinematograph and like apparatus. H. A. Rogers. No. 1,294,172; Feb. 11; v. 259; p. 310.
- Cinematograph-machine. M. E. Myers and M. A. J. Harper. No. 1,302,579; May 6; v. 262; p. 18.
- Cinematograph-machine. M. E. Myers and M. A. J. Harper. No. 1,307,984; June 24; v. 263; p. 608.
- Cinematograph positive films, Apparatus for exposing. C. M. Hepworth. No. 1,310,337; July 15; v. 264; p. 494.
- Cinematographic apparatus. M. Figour. No. 1,325,283; Dec. 16; v. 269; p. 495.
- Cinematographic apparatus. L. Janot. No. 1,317,502; Sept. 30; v. 266; p. 669.
- Cinematographic bands and means therefor, Production of color. F. Twyman and H. Workman. No. 1,312,088; Aug. 5; v. 265; p. 44.
- Cinematographic-film-coloring machine. M. Handschlegl. No. 1,295,028; Feb. 18; v. 259; p. 543.
- Cinematographic films and apparatus therefor, Producing colored. L. F. Douglass. No. 1,325,280; Dec. 16; v. 269; p. 494.
- Cinematographic films, Apparatus for perforating. A. S. Howell. No. 1,291,524; Jan. 14; v. 258; p. 383.
- Cinematographic films, Machine for developing and fixing. J. Marette. No. 1,325,748; Dec. 23; v. 269; p. 597.
- Cinematographic projections and other similar projections, Screen for. J. Chanteux. No. 1,315,708; Sept. 9; v. 266; p. 233.
- Cinematographic projector. H. B. Thompson. No. 1,324,481; Dec. 9; v. 269; p. 283.
- Cinematographic target. G. H. Drasser, Jr. No. 1,311,383; July 29; v. 264; p. 752.
- Cinematography. L. F. Douglass. No. 1,313,587; Aug. 19; v. 265; p. 378.
- Cinematography. W. B. Wescott. No. 1,309,673; July 15; v. 264; p. 374.
- Cinematography apparatus. N. H. Losey. No. 1,291,954; Jan. 21; v. 258; p. 520.
- Cipher apparatus. L. Nicoletti. No. 1,311,457; July 29; v. 264; p. 766.
- Ciphering and deciphering mechanism. R. D. Parker. No. 1,320,908; Nov. 4; v. 268; p. 104.
- Circle-cutter. J. W. Perkins and D. W. Roberts. No. 1,316,642; Sept. 23; v. 266; p. 472.



*Alphabetical list of inventions—Continued.*

- Circuit-breaker. W. A. Corley. No. 1,295,007; Feb. 18; v. 259; p. 539.
- Circuit-breaker. G. O. O. Davies. No. 1,310,562; July 22; v. 264; p. 567.
- Circuit-breaker. J. E. Evans. No. 1,293,388; Feb. 4; v. 259; p. 96.
- Circuit-breaker. C. L. G. Fortescue. No. 1,300,367; Apr. 15; v. 261; p. 447.
- Circuit-breaker. G. W. Gerlach. No. 1,297,343; Mar. 18; v. 260; p. 407.
- Circuit-breaker. J. Küntziger, H. Chauvin, and F. Fontaine. No. 1,298,736; Apr. 1; v. 261; p. 27.
- Circuit-breaker. W. H. McClelland, Jr. No. 1,314,883; Sept. 2; v. 266; p. 76.
- Circuit-breaker. W. S. Mitchell. No. 1,323,897; Dec. 2; v. 269; p. 127.
- Circuit-breaker. W. H. Ratcliff. No. 1,305,165; May 27; v. 262; p. 607.
- Circuit-breaker. J. P. Rumburg. No. 1,325,959; Dec. 23; v. 269; p. 637.
- Circuit-breaker. D. M. Schiffert. No. 1,312,136; Aug. 5; v. 265; p. 54.
- Circuit-breaker. A. Simon. No. 1,315,426; Sept. 9; v. 266; p. 184.
- Circuit-breaker. J. R. Spurrier. No. 1,312,282; Aug. 5; v. 265; p. 79.
- Circuit-breaker. L. J. Werner. No. 1,304,837; May 27; v. 262; p. 546.
- Circuit-breaker and switch. G. A. Burnham. No. 1,293,691; Feb. 11; v. 259; p. 197.
- Circuit-breaker for ignition apparatus. A. G. Karkau. No. 1,294,471; Feb. 18; v. 259; p. 416.
- Circuit breaker, Magneto-. W. S. Harley. No. 1,319,332; Oct. 21; v. 267; p. 406.
- Circuit breaker, Magneto-. W. S. Harley. No. 1,325,016; Dec. 16; v. 269; p. 444.
- Circuit-breaker mechanism, Automatically-reclosing. E. C. Raney. No. 1,302,851; May 6; v. 262; p. 71.
- Circuit-breaker or cut-out. R. Ancotti and P. C. Martone. No. 1,310,111; July 15; v. 264; p. 453.
- Circuit breaker, Primary-ignition-. J. G. Knapp. No. 1,294,678; Feb. 18; v. 259; p. 464.
- Circuit-breaker relay. W. Kaisling. No. 1,324,452; Dec. 9; v. 269; p. 278.
- Circuit-breaker, Time-controlled. S. E. Wright. No. 1,297,529; Mar. 18; v. 260; p. 446.
- Circuit-closer. W. Donohue. No. 1,311,214; July 29; v. 264; p. 721.
- Circuit-closer. F. E. Edwards. No. 1,309,881; July 15; v. 264; p. 411.
- Circuit-closer. C. B. Harlow. No. 1,308,711; July 1; v. 264; p. 129.
- Circuit-closer. G. E. Hull. No. 1,298,950; Apr. 1; v. 261; p. 77.
- Circuit-closer. R. E. McKee. No. 1,324,915; Dec. 16; v. 269; p. 426.
- Circuit-closer. E. F. Piers. No. 1,323,094; Nov. 25; v. 268; p. 681.
- Circuit-closer. R. A. Wesolek. No. 1,307,286; June 17; v. 263; p. 447.
- Circuit-closer, Drip-pan. F. W. Saltzman. No. 1,324,522; Dec. 9; v. 269; p. 291.
- Circuit closer, Electric-. E. M. McGrath. No. 1,295,777; Feb. 25; v. 259; p. 740.
- Circuit-closer for alarm-circuits. A. J. Parissl. No. 1,292,030; Jan. 21; v. 258; p. 538.
- Circuit-closer for electric signaling devices. W. K. Buckles. No. 1,318,478; Oct. 14; v. 267; p. 217.
- Circuit-closer, Lock-operated. H. Gottesman. No. 1,307,628; June 24; v. 263; p. 542.
- Circuit-closer operator. W. D. Eaton. No. 1,311,763; July 29; v. 264; p. 822.
- Circuit-closer, Thermal. J. C. Baker. No. 1,311,204; July 29; v. 264; p. 719.
- Circuit-closer, Thermal. T. L. Corbitt. No. 1,312,835; Aug. 12; v. 265; p. 217.
- Circuit-closer, Thermo. F. S. Denison. No. 1,290,928; Jan. 14; v. 258; p. 246.
- Circuit-closer, Thermostatic. M. F. Arias. No. 1,290,866; Jan. 14; v. 258; p. 230.
- Circuit-closer, Thermostatic. A. M. D. Greaves. No. 1,291,842; Jan. 21; v. 258; p. 490.
- Circuit-closing contact, Electrical. F. Kuhn and J. A. Hand. No. 1,291,933; Jan. 21; v. 258; p. 515.
- Circuit-connector. C. Brammang. No. 1,323,821; Dec. 2; v. 269; p. 112.
- Circuit-connector. H. A. Douglas. No. 1,308,172; July 1; v. 264; p. 31.
- Circuit-continuing device. H. A. Douglas. No. 1,299,147; Apr. 1; v. 261; p. 120.
- Circuit-controller. J. P. Coleman. No. 1,321,809; Nov. 18; v. 268; p. 388.
- Circuit-controller. C. T. Evans. No. 1,305,268; June 3; v. 263; p. 8.
- Circuit-controller. E. A. Halbleib and F. H. Branner. No. 1,322,431; Nov. 18; v. 268; p. 505.
- Circuit-controller. A. J. Horton. No. 1,292,605; Jan. 28; v. 258; p. 699.
- Circuit-controller. C. J. Klein. No. 1,321,645; Nov. 11; v. 268; p. 306.
- Circuit-controller. R. H. Manson. No. 1,295,912; Mar. 4; v. 260; p. 21.
- Circuit-controller. R. H. Manson. No. 1,295,914; Mar. 4; v. 260; p. 21.
- Circuit-controller. G. R. Radley. No. 1,300,484; Apr. 15; v. 261; p. 472.
- Circuit-controller. W. C. Reed. No. 1,318,178; Oct. 7; v. 267; p. 99.
- Circuit-controller. P. H. Zimmer. No. 1,296,729; Mar. 11; v. 260; p. 241.
- Circuit-controller, Rail-contact. J. E. Clough, W. H. Stilwell, and A. R. Fugina. No. 1,312,101; Aug. 5; v. 265; p. 47.
- Circuit-controllers, Time element for. G. A. Burnham. No. 1,313,877; Aug. 26; v. 265; p. 466.
- Circuit-controlling apparatus. K. L. Curtis. No. 1,294,411; Feb. 18; v. 259; p. 402.
- Circuit-controlling apparatus. W. C. Reed. No. 1,290,658; Jan. 7; v. 258; p. 156.
- Circuit-controlling device. R. S. Shaw. No. 1,306,638; June 10; v. 263; p. 296.
- Circuit-controlling means. C. P. Banzhof. No. 1,324,371; Dec. 9; v. 269; p. 261.
- Circuit-controlling mechanism. E. C. Raney. No. 1,312,454; Aug. 5; v. 265; p. 113.
- Circuit-controlling switch. R. M. de Vignier and B. Freile. No. 1,295,709; Feb. 25; v. 259; p. 725.
- Circuit. Distortion-correcting. J. R. Carson. No. 1,315,539; Sept. 9; v. 266; p. 204.
- Circuit, Double resonant. C. L. Fortescue. (Reissue.) No. 14,774; Dec. 23; v. 269; p. 674.
- Circuit for artificial lines, Relay-selecting. C. S. Demarest. No. 1,308,664; July 1; v. 264; p. 120.
- Circuit for pole-changers. C. J. Erickson. No. 1,299,155; Apr. 1; v. 261; p. 123.
- Circuit-interrupter. J. F. Cavanagh. No. 1,313,856; Aug. 19; v. 265; p. 428.
- Circuit-interrupter. J. O. Langguth. No. 1,313,092; Aug. 12; v. 265; p. 268.
- Circuit-interrupter. H. G. MacDonald. No. 1,293,842; Feb. 11; v. 259; p. 233.
- Circuit-interrupter. J. N. Mahoney. No. 1,305,142; May 27; v. 262; p. 603.
- Circuit-interrupter. J. N. Mahoney. No. 1,323,300; Dec. 2; v. 269; p. 15.
- Circuit-interrupter. J. N. Mahoney. No. 1,326,359; Dec. 30; v. 269; p. 748.
- Circuit-interrupter. J. N. Mahoney and H. G. MacDonald. No. 1,318,784; Oct. 14; v. 267; p. 275.
- Circuit-interrupter. J. Slepian. No. 1,323,327; Dec. 2; v. 269; p. 20.
- Circuit-interrupter. J. F. Tritle. No. 1,323,798; Dec. 2; v. 269; p. 108.
- Circuit-interrupter. J. F. Tritle. No. 1,323,799; Dec. 2; v. 269; p. 108.
- Circuit-interrupter. A. M. Wilderberg. No. 1,290,449; Jan. 7; v. 258; p. 105.
- Circuit-interrupting device. C. T. Allcutt. No. 1,323,238; Dec. 2; v. 269; p. 3.
- Circuit-interrupting device. R. D. Evans. No. 1,314,581; Sept. 2; v. 266; p. 20.
- Circuit-interrupting system. L. W. Chubb. No. 1,320,125; Oct. 28; v. 267; p. 578.
- Circuit maker and breaker. F. Lowenstein and J. Broich. No. 1,291,039; Jan. 14; v. 258; p. 270.
- Circuit system, Non-grounded or metallic line. R. H. Burfeind. No. 1,299,119; Apr. 1; v. 261; p. 115.
- Circuits, Automatic test and ringing. H. D. Currier. No. 1,311,156; July 29; v. 264; p. 710.
- Circuits, Coupling for electric train-line. T. R. Brown. No. 1,292,428; Jan. 28; v. 258; p. 655.
- Circuits, Fuse control for multiphase. C. Gilliett. No. 1,309,027; July 8; v. 264; p. 217.
- Circuits, Fuse for electric. H. M. Cogan. No. 1,308,042; July 1; v. 264; p. 7.
- Circuits, Means for preventing voltage fluctuation on distribution-. J. D. Ball. No. 1,313,050; Aug. 12; v. 265; p. 260.
- Circuits, Protective device for electric. G. H. Whittingham and W. T. Holmes. No. 1,294,213; Feb. 11; v. 259; p. 320.
- Circuits, Testing apparatus for four-wire repeater-. J. F. Toomey. No. 1,295,816; Feb. 25; v. 259; p. 749.
- Circuits, Through ringing repeater. C. S. Demarest. No. 1,321,723; Nov. 11; v. 268; p. 322.
- Circular-saw table. O. J. Gehrke. No. 1,304,872; May 27; v. 262; p. 552.
- Circulating system. N. M. La Porte. No. 1,310,025; July 15; v. 264; p. 437.
- Circulation, Method of and apparatus for obtaining increased. R. A. Fessenden. No. 1,318,740; Oct. 14; v. 267; p. 267.
- Circulator. J. P. Cluley. No. 1,310,324; July 15; v. 264; p. 491.
- Circulator. N. M. La Porte. No. 1,292,489; Jan. 28; v. 258; p. 669.
- Cistern. G. M. Lear. No. 1,312,738; Aug. 12; v. 265; p. 198.
- Cistern, Flushing-. G. D. Fort. No. 1,321,613; Nov. 11; v. 268; p. 301.



## Clamp: See—

Adjustable clamp.  
 Automobile-hood clamp.  
 Automobile steering-clamp.  
 Band-brake clamp.  
 Bench-clamp.  
 Bottless clamp.  
 Bone-clamp.  
 Box-holding clamp.  
 Bridge rail-clamp.  
 Button-clamp.  
 Cable-clamp.  
 Cable and wire clamp.  
 Cam-clamp.  
 Case-clamp.  
 Closure-clamp.  
 Cloth-clamp.  
 Column-clamp.  
 Column-mold clamp.  
 Conduit and cable clamp.  
 Drill-rod clamp.  
 Fabric-clamp.  
 Fencepost-clamp.  
 Folding clamp.  
 Foundry-flask clamp.  
 Glue-clamp.  
 Grinding-wheel clamp.  
 Guard-rail clamp.  
 Hose-clamp.  
 Interlocking clamp.  
 Lamp and cord-adjusting clamp.  
 Lamp-supporting clamp.  
 Lever-locking clamp.  
 Needle-clamp.  
 Nut-clamp.  
 Pipe-clamp.  
 Planking-clamp.  
 Clamp. J. D. Bennett. No. 1,322,520; Nov. 25; v. 268; p. 573.  
 Clamp. R. B. Chute, Jr. No. 1,299,822; Apr. 8; v. 261; p. 303.  
 Clamp. W. P. Cunningham. No. 1,313,268; Aug. 19; v. 265; p. 318.  
 Clamp. C. L. Gipson. No. 1,305,353; June 3; v. 263; p. 23.  
 Clamp. J. E. Hodges. No. 1,291,519; Jan. 14; v. 258; p. 381.  
 Clamp. C. Irwin. No. 1,301,702; Apr. 22; v. 261; p. 757.  
 Clamp. J. Kennedy. No. 1,304,065; May 20; v. 262; p. 361.  
 Clamp. N. G. Perry and C. E. Hulting. No. 1,305,156; May 27; v. 262; p. 606.  
 Clamp. F. Petranich. No. 1,300,482; Apr. 15; v. 261; p. 471.  
 Clamp. R. J. Reeder. No. 1,319,900; Oct. 28; v. 267; p. 537.  
 Clamp. W. A. Salter. No. 1,306,858; June 17; v. 263; p. 368.  
 Clamp. F. L. H. Sims. No. 1,320,425; Nov. 4; v. 268; p. 13.  
 Clamp. F. J. Van Cott. No. 1,296,883; Mar. 11; v. 260; p. 277.  
 Clamp. T. W. Waters. No. 1,320,590; Nov. 4; v. 268; p. 44.  
 Clamp and holder, Hood. P. B. Hopfgarten. No. 1,314,595; Sept. 2; v. 266; p. 23.  
 Clamp and thimble, Combined. J. L. Votaw and M. J. La Vanway. No. 1,322,849; Nov. 25; v. 268; p. 634.  
 Clamp-applier. J. Zeller. No. 1,319,746; Oct. 28; v. 267; p. 507.  
 Clamp, binding-post, or the like. C. D. Filkins. No. 1,297,133; Mar. 11; v. 260; p. 333.  
 Clamp, Derrail-. A. Beam. No. 1,294,602; Feb. 18; v. 259; p. 446.  
 Clamp for conveying structures, Rail-. A. E. Norris. No. 1,308,859; July 8; v. 264; p. 184.  
 Clamp for feed-cutter sharpeners. C. A. Holm. No. 1,309,984; July 15; v. 264; p. 431.  
 Clamp for sheets. G. Sherman. No. 1,312,926; Aug. 12; v. 265; p. 235.  
 Clamp for surveyors' band-chains. K. C. Schmidt and H. G. Lykken. No. 1,307,707; June 24; v. 263; p. 556.  
 Clamp for various objects, Supporting-. N. D. Parker. No. 1,311,089; July 22; v. 264; p. 664.  
 Clamp-machine. J. L. Taylor. No. 1,320,808; Nov. 4; v. 268; p. 84.  
 Clamp-machines, Squaring attachment for. J. L. Taylor. No. 1,321,572; Nov. 11; v. 268; p. 293.  
 Clamp or dog, Lifting. A. G. Strathern. No. 1,326,802; Dec. 30; v. 269; p. 833.  
 Clamping-check. E. Bonham. No. 1,320,116; Oct. 28; v. 267; p. 576.  
 Clamping device. H. F. Krantz. No. 1,302,674; May 6; v. 262; p. 36.  
 Clamping device. T. E. O'Neil. No. 1,293,524; Feb. 4; v. 259; p. 128.  
 Clamping device. N. J. A. Wahlberg. No. 1,303,424; May 13; v. 262; p. 208.  
 Clamping device, Adjustable. M. H. Damerell. No. 1,321,895; Nov. 18; v. 268; p. 404.

Post-clamp.  
 Powder-bag clamp.  
 Rail-clamp.  
 Railway-tie and rail-clamp.  
 Rerailer-clamp.  
 Rigging-clamp.  
 Robe-holder clamp.  
 Roofing-clamp.  
 Rope-clamp.  
 Rope or cable clamp.  
 Rubber-dam clamp.  
 Saw-clamp.  
 Screw-clamp.  
 Sewing-machine needle-clamp.  
 Shingle-clamp.  
 Splicing and seizing clamp.  
 Spring-clamp.  
 Spring-supporting clamp.  
 Supporting-clamp.  
 Tire-clamp.  
 Tire-chain clamp.  
 Tire-rim clamp.  
 Tool-maker's clamp.  
 Trolley-pole clamp.  
 Trolley-wire clamp.  
 Tube-clamp.  
 Tympan-clamp.  
 Welding-clamp.  
 Window-washer's guard-clamp.  
 Wire-fence clamp.  
 Wire-line clamp.  
 Wire or cable clamp.  
 Wire-rope clamp.  
 Work-clamp.  
 Work-holding clamp.

Clamping device or jig. V. Soultanian. No. 1,318,814; Oct. 14; v. 267; p. 281.  
 Clamping-dog. C. R. Townsend and J. G. Skinner. No. 1,326,807; Dec. 30; v. 269; p. 834.  
 Clamping mechanism. W. P. Bovard. No. 1,296,470; Mar. 4; v. 260; p. 145.  
 Clamping mechanism. W. T. Sears. No. 1,296,862; Mar. 11; v. 260; p. 272.  
 Clamping-tool, Awning-fixture. J. E. Osborne. No. 1,321,663; Nov. 11; v. 268; p. 310.  
 Clarifier and separator, Combination. H. J. Young. No. 1,294,017; Feb. 11; v. 259; p. 274.  
 Clarinet. P. Sciarra. No. 1,319,625; Oct. 21; v. 267; p. 461.  
 Clamp: See—  
 Antiskid-chain clamp.  
 Belt-clamp.  
 Budding-clamp.  
 Button-clamp.  
 Collar-clamp.  
 Corset-clamp.  
 Clamp. K. W. Giddens. No. 1,309,323; July 8; v. 264; p. 271.  
 Clamp. F. J. Madell. No. 1,291,052; Jan. 14; v. 258; p. 274.  
 Clamp. A. G. Planchenault. No. 1,308,446; July 1; v. 264; p. 80.  
 Clamp. K. Stajanovitz. No. 1,324,570; Dec. 9; v. 269; p. 300.  
 Clamp-fastener. K. Ibusuki. No. 1,324,053; Dec. 9; v. 269; p. 200.  
 Clamps, Machine for fixing. A. Blumenthal and J. Blumenthal. No. 1,308,327; July 1; v. 264; p. 58.  
 Classifier. A. L. Blomfield. No. 1,292,237; Jan. 21; v. 258; p. 590.  
 Classifier. W. H. Donald. No. 1,298,310; Mar. 25; v. 260; p. 638.  
 Classifier. E. F. McCool. No. 1,310,917; July 22; v. 264; p. 632.  
 Classifier, Mechanical. F. E. Marcy. No. 1,316,911; Sept. 23; v. 268; p. 521.  
 Clay cutting and mixing machine. H. R. Straight. No. 1,301,017; Apr. 15; v. 261; p. 585.  
 Clay, Treatment of. W. Feldenheimer. No. 1,324,958; Dec. 16; v. 269; p. 434.  
 Clay-working. J. J. F. Brand. No. 1,296,472; Mar. 4; v. 260; p. 146.  
 Clays and earths, Treatment of. F. Langford. No. 1,308,429; July 1; v. 264; p. 77.

## Cleaner: See—

Air-cleaner.  
 Boiler skimmer or cleaner.  
 Boiler-tube cleaner.  
 Bottle-cleaner.  
 Broom-corn cleaner.  
 Bull-wheel cleaner.  
 Car-shield cleaner.  
 Car-window cleaner.  
 Carbon-cleaner.  
 Carpet-cleaner.  
 Comb-cleaner.  
 Cotton-cleaner.  
 Cuspidor-cleaner.  
 Dental-plate cleaner.  
 Dish-cleaner.  
 Drain-pipe cleaner.  
 Excavator-bucket cleaner.  
 Flue-cleaner.  
 Fruit-cleaner.  
 Fruit-jar and bottle cleaner.  
 Furnace-flue cleaner.  
 Gage-glass cleaner.  
 Garnetting-machine cleaner.  
 Gasolene-engine-cylinder cleaner.  
 Golf-ball cleaner.  
 Grain-cleaner.  
 Grain and seed cleaner.  
 Intestine-cleaner.  
 Lens-cleaner.  
 Nostril-cleaner.  
 Pen-cleaner.  
 Pipe-cleaner.  
 Pneumatic cleaner.  
 Rake-cleaner.  
 Receptacle-cleaner.  
 Record-cleaner.  
 Shoe-cleaner.  
 Soot-cleaner.  
 Spark-plug cleaner.  
 Spittoon-cleaner.  
 Steam-boiler cleaner.  
 Stovepipe-cleaner.  
 Suction-cleaner.  
 Tobacco-cleaner.  
 Tube-cleaner.  
 Type-writer type-cleaner.  
 Vacuum-cleaner.  
 Waste-pipe cleaner.  
 Wind-shield cleaner.  
 Window-cleaner.  
 Yarn-cleaner.  
 Cleaning and beading tool, Combined. S. R. Haselhurst. No. 1,323,052; Nov. 25; v. 268; p. 673.  
 Cleaning and polishing composition. A. G. Hopkins. No. 1,319,475; Oct. 21; v. 267; p. 433.  
 Cleaning and polishing composition. C. P. Robinson. No. 1,307,149; June 17; v. 263; p. 422.  
 Cleaning and polishing composition. C. Wallace. No. 1,314,482; Aug. 26; v. 265; p. 582.  
 Cleaning and polishing composition for wood or metal. G. Magnuson. No. 1,317,171; Sept. 30; v. 266; p. 606.  
 Cleaning and washing machine, Dry-. A. B. Miller. No. 1,313,497; Aug. 19; v. 265; p. 361.  
 Cleaning apparatus. G. W. Meyers. No. 1,297,384; Mar. 18; vol. 260; p. 416.  
 Cleaning apparatus, Dry-. A. Traube. No. 1,291,266; Jan. 14; v. 258; p. 323.  
 Cleaning compound. L. C. Gorius and F. B. Hays. No. 1,322,009; Nov. 18; v. 268; p. 425.  
 Cleaning contact-points. C. A. Pfanstiehl. No. 1,304,803; May 27; v. 262; p. 540.  
 Cleaning cooking utensils and other articles, Contrivance for. E. M. Goldsmith. No. 1,304,176; May 20; v. 262; p. 381.  
 Cleaning device. E. H. Harry. No. 1,299,181; Apr. 1; v. 261; p. 129.



## Alphabetical list of inventions—Continued.

- Cleaning device. A. E. Hobbs. No. 1,303,201; May 6; v. 262; p. 138.
- Cleaning device. G. L. Lamb. No. 1,305,470; June 3; v. 263; p. 45.
- Cleaning device. J. C. Matthews. No. 1,320,260; Oct. 28; v. 267; p. 604.
- Cleaning device. E. A. Teepell. No. 1,303,414; May 13; v. 262; p. 204.
- Cleaning device, Rake-. H. F. Brockman. No. 1,305,874; June 3; v. 263; p. 122.
- Cleaning device, Suction. F. C. Helmich. No. 1,303,059; May 6; v. 262; p. 110.
- Cleaning implement. D. Gamble. No. 1,308,491; July 1; v. 264; p. 88.
- Cleaning implement. H. A. Hayden. No. 1,313,184; Aug. 12; v. 265; p. 286.
- Cleaning implement. H. A. Hayden. No. 1,315,121; Sept. 2; v. 266; p. 118.
- Cleaning machine or apparatus. B. E. Taylor. No. 1,309,785; July 15; v. 264; p. 394.
- Cleaning machine, Rug and carpet. L. Hollman. No. 1,308,785; July 8; v. 264; p. 170.
- Cleaning machine, Street-. T. Wendorf. No. 1,307,568; June 24; v. 263; p. 531.
- Cleaning machines, Alarm for tin-. U. U. Ulam. No. 1,313,766; Aug. 19; v. 265; p. 412.
- Cleaning machines, Brush-adjusting means for. F. W. Collier. No. 1,313,261; Aug. 19; v. 265; p. 317.
- Cleaning preparation. A. W. Tomashot. No. 1,316,090; Sept. 16; v. 266; p. 319.
- Cleaning-tank. C. W. Spicer. No. 1,292,407; Jan. 21; v. 258; p. 628.
- Cleaning utensils, Device for holding. T. Bussler. No. 1,320,311; Oct. 28; v. 267; p. 613.
- Cleansing apparatus for vertically-arranged smoke-tubes, Steam. J. Bore and A. Skogland. No. 1,310,733; July 22; v. 264; p. 598.
- Cleansing apparatus, Receptacle-. J. M. Rude. No. 1,308,195; July 1; v. 264; p. 35.
- Cleat, Deck-. H. W. Young. No. 1,299,529; Apr. 8; v. 261; p. 236.
- Cleat, Pivot-. W. D. Smith. No. 1,304,616; May 27; v. 262; p. 505.
- Clevis. C. E. Merkel. No. 1,313,311; Aug. 19; v. 265; p. 326.
- Clevis. E. W. St. Onge. No. 1,319,730; Oct. 28; v. 267; p. 504.
- Clevis. N. Pearson. No. 1,299,018; Apr. 1; v. 261; p. 92.
- Clevis. J. T. Woolfolk. No. 1,316,933; Sept. 23; v. 266; p. 525.
- Clevis-locking device. J. Keogh. No. 1,292,801; Jan. 28; v. 258; p. 744.
- Clicking-machine block-planer. E. B. Goldsmith. No. 1,318,492; Oct. 14; v. 267; p. 220.
- Climbing device. B. F. Wells. No. 1,307,468; June 24; v. 263; p. 514.
- Clinker-burner. J. Cook. No. 1,308,936; July 8; v. 264; p. 198.
- Clinker-clamp and flue-cleaner. M. Roth. No. 1,321,246; Nov. 11; v. 268; p. 231.
- Clinker-moving device. D. F. Merriman. No. 1,326,209; Dec. 30; v. 269; p. 720.
- Clip: See—
- |                       |                      |
|-----------------------|----------------------|
| Automobile-hood clip. | Pen-clip.            |
| Bait-clip.            | Pen and pencil clip. |
| Building-clip.        | Pen or pencil clip.  |
| Cable-clip.           | Pencil-clip.         |
| Cartridge-clip.       | Release-spring clip. |
| Collar-clip.          | Revolver-clip.       |
| Concrete-clip.        | Roof-clip.           |
| Display-clip.         | Roofing-clip.        |
| Film-clip.            | Safety-clip.         |
| Fountain-pen clip.    | Spoon-clip.          |
| Fuse-clip.            | Spoon-holding clip.  |
| Fuselage-clip.        | Spring-clip.         |
| Nail-clip.            | Wire-bending clip.   |
| Paper-clip.           |                      |
- Clip. C. J. Gadd. No. 1,304,554; May 27; v. 262; p. 493.
- Clip. J. O. Morris. No. 1,322,461; Nov. 18; v. 268; p. 511.
- Clip. W. C. Rust. No. 1,316,189; Sept. 16; v. 266; p. 337.
- Clip for railway detector-bars, Adjustable rail-. C. Volz. No. 1,310,098; July 15; v. 264; p. 450.
- Clip-passer. J. W. Plencner. No. 1,297,007; Mar. 11; v. 260; p. 306.
- Clipper, Hair-. F. W. Krause. No. 1,301,712; Apr. 22; v. 261; p. 759.
- Clipper-shears. G. A. La Fontaine. No. 1,303,072; May 6; v. 262; p. 112.
- Clipping-machine. F. E. Kauffmann. No. 1,307,361; June 24; v. 263; p. 494.
- Clock. G. Kish. No. 1,298,353; Mar. 25; v. 260; p. 646.
- Clock. A. G. Lundquist. No. 1,320,400; Nov. 4; v. 268; p. 8.
- Clock, Alarm-. G. Kern. No. 1,300,278; Apr. 15; v. 261; p. 423.
- Clock, Alarm-. J. P. Metz. No. 1,323,781; Dec. 2; v. 269; p. 105.
- Clock and the like electric winding mechanism. E. Pons. No. 1,301,499; Apr. 22; v. 261; p. 718.
- Clock, Automobile-. W. E. Porter. No. 1,292,043; Jan. 21; v. 258; p. 541.
- Clock, Calendar-. G. Fricano. No. 1,300,372; Apr. 15; v. 261; p. 449.
- Clock-case. C. B. Hale. No. 1,308,947; July 8; v. 264; p. 200.
- Clock, Chime-. T. C. Adams and A. M. Roach. No. 1,322,216; Nov. 18; v. 268; p. 464.
- Clock, Chime-. J. B. Phillips. No. 1,302,845; May 6; v. 262; p. 70.
- Clock, Chime-. W. E. Porter. No. 1,300,771; Apr. 15; v. 261; p. 533.
- Clock, Chime-. F. Wehinger. No. 1,300,309; Apr. 15; v. 261; p. 435.
- Clock, Chime-. F. Wehinger. No. 1,304,924; May 27; v. 262; p. 562.
- Clock-chimes, Hammer-arrest for. W. J. Herschede and C. Cohan. No. 1,323,390; Dec. 2; v. 269; p. 32.
- Clock, Electric. H. Abe. No. 1,325,823; Dec. 23; v. 269; p. 612.
- Clock, Electric. G. Blumberg and G. A. Butkus. No. 1,312,946; Aug. 12; v. 265; p. 239.
- Clock, Electric. U. L. Collins. No. 1,296,048; Mar. 4; v. 260; p. 53.
- Clock, Electric. A. F. Poole. No. 1,325,862; Dec. 23; v. 269; p. 619.
- Clock-face-mounting means. C. Cohan. No. 1,319,044; Oct. 21; v. 267; p. 351.
- Clock for controlling mechanical devices. F. Wehinger. No. 1,299,077; Apr. 1; v. 261; p. 106.
- Clock-frame. E. H. Allen. No. 1,320,520; Nov. 4; v. 268; p. 30.
- Clock-holder, Automobile. F. Kees and S. M. Colburn. No. 1,307,053; June 17; v. 263; p. 405.
- Clock, Photographic. F. M. Gil. No. 1,305,596; June 3; v. 263; p. 71.
- Clock, Production-. J. F. Malcolm. No. 1,324,916; Dec. 16; v. 269; p. 426.
- Clock, Reminder-. A. W. South. No. 1,296,438; Mar. 4; v. 260; p. 139.
- Clock, Secondary. A. L. Sohm. No. 1,302,603; May 6; v. 262; p. 23.
- Clock, Secondary. A. L. Sohm. No. 1,302,604; May 6; v. 262; p. 23.
- Clock, Secondary. A. L. Sohm. No. 1,302,605; May 6; v. 262; p. 23.
- Clock, Secondary, electric. F. F. Landis. No. 1,313,304; Aug. 19; v. 265; p. 325.
- Clock, Stereoscopic advertising-. G. Willens. No. 1,292,196; Jan. 21; v. 258; p. 579.
- Clock, Synchronizing-. J. W. Bryce. No. 1,310,783; July 22; v. 264; p. 608.
- Clock-synchronizing device. J. W. Bryce. No. 1,310,789; July 22; v. 264; p. 609.
- Clock system. A. F. Poole. No. 1,310,375; July 15; v. 264; p. 501.
- Clock system, Synchronizing. J. W. Bryce. No. 1,310,779; July 22; v. 264; p. 607.
- Clock system, Synchronizing. J. W. Bryce. No. 1,310,782; July 22; v. 264; p. 608.
- Clock system, Synchronizing. J. W. Bryce. No. 1,310,784; July 22; v. 264; p. 608.
- Clock system, Synchronizing. J. W. Bryce. No. 1,310,785; July 22; v. 264; p. 609.
- Clock system, Synchronizing. J. W. Bryce. No. 1,310,786; July 22; v. 264; p. 609.
- Clock system, Synchronizing. J. W. Bryce. No. 1,310,787; July 22; v. 264; p. 609.
- Clock system, Synchronizing. J. W. Bryce. No. 1,310,788; July 22; v. 264; p. 609.
- Clock system, Synchronizing. C. E. Larrabee. No. 1,313,305; Aug. 19; v. 265; p. 325.
- Clock system, Synchronous. J. W. Bryce. No. 1,310,781; July 22; v. 264; p. 608.
- Clock transmission mechanism. A. L. Hahl. No. 1,300,262; Apr. 15; v. 261; p. 425.
- Clock, Watchman's. F. Hardinge. No. 1,322,564; Nov. 25; v. 268; p. 582.
- Clock winding mechanism. J. H. Boyle. No. 1,300,113; Apr. 8; v. 261; p. 366.
- Clock winding mechanism. J. W. Bryce. No. 1,299,116; Apr. 1; v. 261; p. 114.
- Clocks, Automatic synchronizing mechanism for chime-. C. Cohan. No. 1,292,581; Jan. 28; v. 258; p. 693.
- Clocks, Chord-striking mechanism for chime-. C. Cohan. No. 1,319,045; Oct. 21; v. 267; p. 351.
- Clocks, Quick-detachable mainspring-mounting for. J. Nocerino. No. 1,325,854; Dec. 23; v. 269; p. 618.
- Clocks, Spring-motor for. A. L. Hahl. No. 1,321,821; Nov. 18; v. 268; p. 391.
- Clocks, Synchronizing. J. W. Bryce. No. 1,310,780; July 22; v. 264; p. 607.
- Clod-crusher. F. A. Dennis. No. 1,291,780; Jan. 21; v. 258; p. 475.
- Closet: See—
- |                  |               |
|------------------|---------------|
| Dry closet.      | Water-closet. |
| Sanitary closet. |               |
- Closet. A. McGary. No. 1,290,615; Jan. 7; v. 258; p. 145.
- Closet. A. McGary. No. 1,293,141; Feb. 4; v. 259; p. 39.



- Closet. J. H. Pope and C. D. Griswold. No. 1,291,125; Jan. 14; v. 258; p. 291.
- Closet-bowls, Fluid-conduit in. H. T. Cronk. No. 1,308,581; July 1; v. 264; p. 105.
- Closet-hange. E. R. Lumsden. No. 1,291,041; Jan. 14; v. 258; p. 271.
- Closet flush-tank. Water-. E. L. Delany. No. 1,320,452; Nov. 4; v. 268; p. 18.
- Closet-flushing apparatus, Water-. J. F. Doyle, Jr. No. 1,292,444; Jan. 28; v. 258; p. 659.
- Closet hanging device. W. L. Ninow. No. 1,325,036; Dec. 16; v. 269; p. 448.
- Closet-seat. W. H. D. Banck. No. 1,293,666; Feb. 11; v. 259; p. 191.
- Closet-seat. R. C. Lussier. No. 1,290,611; Jan. 7; v. 258; p. 144.
- Closet-seat and making same. I. S. Franklin. No. 1,315,488; Sept. 9; v. 266; p. 195.
- Closet-seat guard. W. S. Young. No. 1,301,779; Apr. 22; v. 261; p. 773.
- Closet-seats, Automatic shutter for sanitary. G. M. Kinch. No. 1,303,564; May 13; v. 262; p. 231.
- Closet-trap, Destructible. H. T. Cronk. No. 1,308,582; July 1; v. 264; p. 105.
- Closing device. E. L. Gifford. No. 1,304,471; May 20; v. 262; p. 439.
- Closure. A. P. Anderson. No. 1,299,651; Apr. 8; v. 261; p. 263.
- Closure adjusting and securing device. F. E. Carlisle. No. 1,304,454; May 20; v. 262; p. 436.
- Closure attachment. W. A. McIntyre. No. 1,324,682; Dec. 9; v. 269; p. 321.
- Closure-clamp. J. Reid. No. 1,320,175; Oct. 28; v. 267; p. 587.
- Closure-disk, Attached-handle. H. L. Compton. No. 1,313,674; Aug. 19; v. 265; p. 394.
- Closure for hollow bodies. A. Rydquist. No. 1,297,403; Mar. 18; v. 260; p. 420.
- Closures for bottles, &c., and stoppers, Combined extractor for. R. J. Maloney. No. 1,296,545; Mar. 4; v. 260; p. 163.
- Cloth-clamp. H. O. Wiegand. No. 1,307,606; June 24; v. 263; p. 538.
- Cloth cropping or shearing machine. T. Canby. (Re-issue.) No. 1,4642; May 6; v. 262; p. 142.
- Cloth-cutter. C. E. Clark. No. 1,309,317; July 8; v. 264; p. 270.
- Cloth-cutting machine. W. J. Marshall. No. 1,307,561; June 24; v. 263; p. 530.
- Cloth-cutting machine. A. Rubin. (Reissue.) No. 1,4634; May 27; v. 262; p. 622.
- Cloth-cutting machine. M. Zawistowski. No. 1,319,707; Oct. 28; v. 267; p. 500.
- Cloth-cutting machine. M. Zawistowski. No. 1,319,809; Oct. 28; v. 267; p. 519.
- Cloth-cutting-machine appliance. H. E. Garrison. No. 1,293,751; Feb. 11; v. 259; p. 211.
- Cloth-cutting-machine knife-drive. H. Maimin and W. J. Marshall. No. 1,292,625; Jan. 28; v. 258; p. 704.
- Cloth-cutting-machine knives, Sharpening apparatus for. H. Maimin and W. J. Marshall. No. 1,303,936; May 20; v. 262; p. 338.
- Cloth-cutting-machine stripper-foot. H. Maimin. No. 1,290,272; Jan. 7; v. 258; p. 63.
- Cloth-drilling machine. L. J. Fox. No. 1,308,898; July 8; v. 264; p. 191.
- Cloth dyeing, bleaching, and like machine. R. Jackson. No. 1,319,648; Oct. 21; v. 267; p. 466.
- Cloth-folding machine. E. H. Marble. No. 1,311,080; July 22; v. 264; p. 662.
- Cloth from cloth-bolts, Machine for facilitating the unrolling of. N. Rubenstein. No. 1,300,655; Apr. 15; v. 261; p. 507.
- Cloth guiding and feeding apparatus. S. Birch. No. 1,297,064; Mar. 11; v. 260; p. 318.
- Cloth-guiding device. H. Roberts. No. 1,326,531; Dec. 30; v. 269; p. 782.
- Cloth-guiding device for textile-machines. G. Barton. No. 1,312,153; Aug. 5; v. 265; p. 57.
- Cloth-holder. J. A. Forrest. No. 1,324,656; Dec. 9; v. 269; p. 316.
- Cloth-holding device. F. A. Schoenl. No. 1,297,016; Mar. 11; v. 260; p. 307.
- Cloth-laying machine. A. L. Cutter. No. 1,316,692; Sept. 23; v. 266; p. 481.
- Cloth-laying machine. J. W. Wunsch. No. 1,325,224; Dec. 16; v. 269; p. 484.
- Cloth-marking machine. E. A. Rochon. No. 1,315,159; Sept. 2; v. 266; p. 125.
- Cloth-measuring machine. L. L. Scott. No. 1,303,971; May 20; v. 262; p. 344.
- Cloth-meter. H. L. Brown and C. C. Wheeler. No. 1,295,423; Feb. 25; v. 259; p. 658.
- Cloth or fabric, Machine for tearing. J. D. Frier. No. 1,318,859; Oct. 14; v. 267; p. 290.
- Cloth-piling machine. J. J. Lyth. No. 1,321,834; Nov. 18; v. 268; p. 393.
- Cloth-piling machines, Catching device for. C. C. Schneider. No. 1,308,766; July 8; v. 264; p. 167.
- Cloth pressing and folding machine. F. W. Bailer. No. 1,315,453; Sept. 9; v. 266; p. 189.
- Cloth-reel, Collapsible. F. T. Bailey. No. 1,307,175; June 17; v. 263; p. 426.
- Cloth renapping and refinishing machine. E. J. Dunklee. No. 1,304,281; May 20; v. 262; p. 401.
- Cloth-roller. W. A. Rotholz. No. 1,290,361; Jan. 7; v. 258; p. 83.
- Cloth-stretching machines, Tenter-clips for. T. Alexander. No. 1,326,160; Dec. 30; v. 269; p. 711.
- Clothes-fastener. R. J. Sullivan. No. 1,293,572; Feb. 4; v. 259; p. 139.
- Clothes follower or presser. A. L. Mull. No. 1,302,069; Apr. 29; v. 261; p. 858.
- Clothes-hanger. A. B. Blaustein. No. 1,318,257; Oct. 7; v. 267; p. 115.
- Clothes-hanger. C. Fasel and W. W. Garland. No. 1,325,839; Dec. 23; v. 269; p. 615.
- Clothes-hanger. J. Krebs. No. 1,318,290; Oct. 7; v. 267; p. 121.
- Clothes-hanger. J. Nagrabski. No. 1,308,605; July 1; v. 264; p. 109.
- Clothes-hanger. R. V. Reynolds. No. 1,301,500; Apr. 22; v. 261; p. 718.
- Clothes-hanger. J. A. Shoemaker. No. 1,293,953; Feb. 11; v. 259; p. 258.
- Clothes-hanger and ironing-board, Combination. F. Gardner. No. 1,311,766; July 29; v. 264; p. 823.
- Clothes-hanger, Foldable portable. F. L. Krohe. No. 1,322,585; Nov. 25; v. 268; p. 586.
- Clothes-hanger for doors. A. Rothery. No. 1,301,607; Apr. 22; v. 261; p. 737.
- Clothes-hanging device. J. W. Johnshoy. No. 1,298,954; Apr. 1; v. 261; p. 78.
- Clothes-line attachment. P. J. Cunningham and A. R. Hammond. No. 1,302,771; May 6; v. 262; p. 55.
- Clothes-line fastener. E. A. Bennett. No. 1,297,782; Mar. 18; v. 260; p. 501.
- Clothes-line, Folding. C. K. Dresser. No. 1,293,055; Feb. 4; v. 259; p. 20.
- Clothes-line holder. M. Lopan. No. 1,292,339; Jan. 21; v. 258; p. 613.
- Clothes-line, Pulley. L. J. Cartisser. No. 1,294,617; Feb. 18; v. 259; p. 449.
- Clothes-line reel and tightener. F. M. Giddings. No. 1,324,112; Dec. 9; v. 269; p. 211.
- Clothes-line stretcher. C. Johnson. No. 1,305,116; May 27; v. 262; p. 598.
- Clothes-line support. J. B. Hill. No. 1,301,263; Apr. 22; v. 261; p. 672.
- Clothes-line support. F. F. Miller. No. 1,303,491; May 13; v. 262; p. 218.
- Clothes-pegs, Apparatus for making. A. A. Howes. No. 1,300,614; Apr. 15; v. 261; p. 499.
- Clothes-pin. I. J. Atkins. No. 1,293,661; Feb. 11; v. 259; p. 190.
- Clothes-pin. I. B. Cleveland. No. 1,298,460; Mar. 25; v. 260; p. 670.
- Clothes-pin. L. E. Mertens. No. 1,306,073; June 10; v. 263; p. 189.
- Clothes-pin. W. C. Neal. No. 1,296,841; Mar. 11; v. 260; p. 267.
- Clothes-pin. J. G. Strader. No. 1,301,191; Apr. 22; v. 261; p. 658.
- Clothes-pin. B. Wright. No. 1,297,527; Mar. 18; v. 260; p. 445.
- Clothes-pin-making machine. N. M. Mims. No. 1,305,921; June 3; v. 263; p. 131.
- Clothes-pin, Metal. E. J. Baumel. No. 1,298,643; Apr. 1; v. 261; p. 5.
- Clothes pin or clamp. P. Townley. No. 1,322,655; Nov. 25; v. 268; p. 599.
- Clothes-pressing apparatus. A. E. Snow. No. 1,309,589; July 8; v. 264; p. 321.
- Clothes-pressing-machine drying attachment. T. D. Palmer. No. 1,319,108; Oct. 21; v. 267; p. 362.
- Clothes-prop, Telescoping. G. S. Hanks. No. 1,310,336; July 15; v. 264; p. 494.
- Clothes-rack. G. I. Laxman and H. T. Burkey. No. 1,313,827; Aug. 19; v. 265; p. 423.
- Clothes-rack. C. H. Walling. No. 1,308,564; July 1; v. 264; p. 102.
- Clothes-rack. M. Winzeler. No. 1,318,250; Oct. 7; v. 267; p. 114.
- Clothes-rack, Folding. J. T. Humphrey. No. 1,326,059; Dec. 23; v. 269; p. 656.
- Clothes-receptacle. C. R. Normandy. No. 1,316,919; Sept. 23; v. 266; p. 522.
- Clothes-retainer. G. H. Wheary. No. 1,316,872; Sept. 23; v. 266; p. 514.
- Clothes-retainer, Folding. B. U. Roach. No. 1,314,608; Sept. 2; v. 266; p. 25.
- Clothes-washers, Wringer mechanism for. F. J. Couch and J. F. Wallace. No. 1,325,234; Dec. 16; v. 269; p. 486.
- Clothes-washing machines, Brush attachment for. G. J. Dysinger and M. M. Harris. No. 1,318,984; Oct. 14; v. 267; p. 314.
- Clothes-wringer. J. D. A. Johnson. No. 1,320,061; Oct. 28; v. 267; p. 566.
- Clothes-wringer. G. A. Paddock. No. 1,295,580; Feb. 25; v. 259; p. 695.
- Clothes-wringer attachment. F. B. Smith. No. 1,307,217; June 17; v. 263; p. 433.



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- Clothes-wringers, Pressure-release for. J. F. Hemenway. No. 1,322,437; Nov. 18; v. 268; p. 506.
- Clothes-wringers, Reverse power-actuated release for. E. B. Stocking. No. 1,322,369; Nov. 18; v. 268; p. 493.
- Clothesline-pole. C. E. Langley. No. 1,321,761; Nov. 11; v. 268; p. 329.
- Clothespin. H. M. Bryan. No. 1,318,261; Oct. 7; v. 267; p. 115.
- Clothespin. C. M. Conlee. No. 1,321,598; Nov. 11; v. 268; p. 298.
- Clothespin. W. Hagelstein. No. 1,326,497; Dec. 30; v. 269; p. 774.
- Clothespin. T. Lazar, Sr. No. 1,324,423; Dec. 9; v. 269; p. 272.
- Clothespin. J. T. Smith. No. 1,324,077; Dec. 9; v. 269; p. 205.
- Clothespin. W. H. Witt. No. 1,314,998; Sept. 2; v. 266; p. 96.
- Clothing-rack. E. M. Siegel and I. O'Connell. No. 1,322,835; Nov. 25; v. 268; p. 632.
- Cluster-setting. A. Suderov. No. 1,317,237; Sept. 30; v. 266; p. 619.
- Clutch. F. E. Aurand. No. 1,306,513; June 10; v. 263; p. 273.
- Clutch. E. H. Carroll. No. 1,290,713; Jan. 7; v. 258; p. 170.
- Clutch. J. M. Chadwick. No. 1,322,539; Nov. 25; v. 268; p. 577.
- Clutch. P. A. Combs. No. 1,300,819; Apr. 15; v. 261; p. 543.
- Clutch. I. H. Dexter. No. 1,321,607; Nov. 11; v. 268; p. 300.
- Clutch. H. N. Edens. No. 1,316,432; Sept. 16; v. 266; p. 383.
- Clutch. F. R. Ferguson. No. 1,300,831; Apr. 15; v. 261; p. 546.
- Clutch. E. S. Fairbanks. No. 1,319,465; Oct. 21; v. 267; p. 431.
- Clutch. F. H. Gerdeman. No. 1,324,501; Dec. 9; v. 269; p. 287.
- Clutch. L. R. Gindrat. No. 1,314,260; Aug. 26; v. 265; p. 540.
- Clutch. R. D. Higginbotham. No. 1,300,965; Apr. 15; v. 261; p. 574.
- Clutch. F. R. Jaeger. No. 1,300,398; Apr. 15; v. 261; p. 454.
- Clutch. F. Jaszpowiak. No. 1,322,793; Nov. 25; v. 268; p. 624.
- Clutch. H. G. and R. I. Knapp. No. 1,326,066; Dec. 23; v. 269; p. 657.
- Clutch. O. Kylin. No. 1,309,761; July 15; v. 264; p. 390.
- Clutch. W. H. Lindsay. No. 1,298,975; Apr. 1; v. 261; p. 83.
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- Clutch. C. Nielsen. No. 1,317,811; Oct. 7; v. 267; p. 28.
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- Clutch. J. C. Ollard. No. 1,306,230; June 10; v. 263; p. 219.
- Clutch. P. Pirro. No. 1,324,466; Dec. 9; v. 269; p. 280.
- Clutch. A. E. Robinson and A. M. Sosa. No. 1,293,552; Feb. 4; v. 259; p. 134.
- Clutch. G. L. Rock. No. 1,315,578; Sept. 9; v. 266; p. 211.
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- Clutch. E. D. Woods. No. 1,301,530; Apr. 22; v. 261; p. 723.
- Clutch and actuating mechanism. E. A. Salter. No. 1,322,351; Nov. 18; v. 268; p. 489.
- Clutch and brake linings, Fastener for. A. P. Olson. No. 1,296,843; Mar. 11; v. 260; p. 267.
- Clutch and locking device. C. B. King, C. S. Johnson, and B. Jacoby. No. 1,298,056; Mar. 25; v. 260; p. 583.
- Clutch and other device actuator. H. L. Litchfield and C. E. Shiplet. No. 1,294,496; Feb. 18; v. 259; p. 421.
- Clutch and traction equalizer, Hydraulic. W. S. Weston. No. 1,306,872; June 17; v. 263; p. 371.
- Clutch control. C. Bryan. No. 1,312,384; Aug. 5; v. 265; p. 99.
- Clutch-control mechanism, Transmission and automatic. C. L. Brown. No. 1,299,293; Apr. 1; v. 261; p. 154.
- Clutch control, Transmission. S. L. Mowery. No. 1,296,837; Mar. 11; v. 260; p. 265.
- Clutch-controller. J. S. Manton. No. 1,310,199; July 15; v. 264; p. 469.
- Clutch-controlling method and apparatus, Magnetic. K. E. Peller. No. 1,297,236; Mar. 11; v. 260; p. 355.
- Clutch-coupling for transmission of power by shafting. F. H. Alexander. No. 1,322,172; Nov. 18; v. 268; p. 455.
- Clutch, Differential releasing. G. D. Bailey. No. 1,313,247; Aug. 19; v. 265; p. 314.
- Clutch drive, Friction-. K. Scheiner. No. 1,310,967; July 22; v. 264; p. 641.
- Clutch, Electrically-controlled. W. Langdon-Davies. No. 1,303,484; May 13; v. 262; p. 216.
- Clutch, Electrically-controlled. W. Langdon-Davies. No. 1,305,612; June 3; v. 263; p. 74.
- Clutch, Electromagnetic. B. E. Fernow, Jr. No. 1,325,011; Dec. 16; v. 269; p. 443.
- Clutch, Electromagnetic. A. Soames and W. L. Davies. No. 1,306,784; June 17; v. 263; p. 355.
- Clutch, Fluid-pressure. B. E. Vincent. No. 1,300,898; Apr. 15; v. 261; p. 560.
- Clutch, Friction-. J. Bowen. No. 1,309,996; July 15; v. 264; p. 433.
- Clutch, Friction-. R. Bridge and E. Bradshaw. No. 1,312,776; Aug. 12; v. 265; p. 206.
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- Clutch mechanism. H. H. Newsom. No. 1,310,629; July 22; v. 264; p. 579.
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- Clutch-pedal levers, Auxiliary lever for operating and locking. M. L. Sherman. No. 1,310,302; July 15; v. 264; p. 487.
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- Clutch-pedal lock. H. W. Sanders. No. 1,317,396; Sept. 30; v. 266; p. 649.
- Clutch-pedal-shifting means. J. W. Moore. No. 1,323,403; Dec. 2; v. 269; p. 34.
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- Coal and other materials, Portable screening apparatus for. C. M. Morton and C. H. Steavenson. No. 1,315,385; Sept. 9; v. 266; p. 177.
- Coal and the like cargo in bulk from barges and the delivery thereof, Discharge of. A. Musker. No. 1,309,585; July 8; v. 264; p. 320.
- Coal and the like, Cleaning. H. R. Conklin. No. 1,290,516; Jan. 7; v. 258; p. 121.
- Coal, Apparatus for burning powdered. A. J. Grindle. No. 1,315,719; Sept. 9; v. 266; p. 236.
- Coal, &c., Apparatus for cleaning. H. R. Conklin. No. 1,290,515; Jan. 7; v. 258; p. 121.
- Coal, Apparatus for handling. R. M. Bickley. No. 1,324,491; Dec. 9; v. 269; p. 285.
- Coal, Apparatus for loading. E. C. Morgan. No. 1,304,084; May 20; v. 262; p. 364.
- Coal, Apparatus for the distillation of. A. Pinet and A. Debout. No. 1,312,352; Aug. 5; v. 265; p. 92.
- Coal-auger nut, Sectional. J. H. Mason. No. 1,297,215; Mar. 11; v. 260; p. 350.
- Coal-bag. H. Josephson. No. 1,291,539; Jan. 14; v. 258; p. 387.
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- Coal-distillation products. Recovery of. H. H. Dow. No. 1,317,359; Sept. 30; v. 266; p. 642.
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- Coal-loading machines. Gathering mechanism for. J. F. Joy. No. 1,300,620; Apr. 15; v. 261; p. 500.
- Coal. Method of and apparatus for handling and storing. W. L. Hart. No. 1,319,704; Oct. 28; v. 267; p. 499.
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- Coasting-register. W. Arthur. No. 1,319,454; Oct. 21; v. 267; p. 429.
- Coasting-wheel. J. A. Rudisill. No. 1,297,252; Mar. 11; v. 260; p. 358.
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- Coat and shirt. Combined. J. A. Paulson. No. 1,317,724; Oct. 7; v. 267; p. 12.
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- Coating fabrics. Machine for. D. D. Frothingham and R. U. Sawyer. No. 1,316,784; Sept. 23; v. 266; p. 498.
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- Codes, Apparatus and method for formulating and translating. J. Powers. No. 1,315,406; Sept. 9; v. 266; p. 180.
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- Commutator manufacture. H. P. Janke. No. 1,325,325; Dec. 16; v. 269; p. 503.
- Commutator, Rectifying. H. A. Froom. No. 1,294,894; Feb. 18; v. 259; p. 514.
- Commutator-segments, Making. A. E. Doman. No. 1,314,051; Aug. 26; v. 265; p. 499.
- Commutator-slotting machine. F. E. Aurand. No. 1,303,011; May 6; v. 262; p. 102.
- Commutator-terminals and mounting same. H. H. Phillips. No. 1,297,903; Mar. 18; v. 260; p. 526.
- Commutator-wiper. K. H. Poyas. No. 1,293,193; Feb. 4; v. 259; p. 50.
- Compacting apparatus. J. C. Pelton. No. 1,306,620; June 10; v. 263; p. 292.
- Compartment-tank. C. A. Xardell. No. 1,310,516; July 22; v. 264; p. 558.
- Compass-corrector. J. E. Beattie. No. 1,308,692; July 1; v. 264; p. 125.
- Compass for automobiles. C. D. McConnell. No. 1,317,086; Sept. 23; v. 266; p. 554.
- Compass, Gyro. J. Perry and S. G. Brown. No. 1,291,695; Jan. 14; v. 258; p. 423.
- Compass, Gyroscopic. G. A. Rossiter. No. 1,308,683; July 1; v. 264; p. 124.
- Compass, Gyroscopic. G. A. Rossiter. No. 1,311,716; July 29; v. 264; p. 814.
- Compass, Gyroscopic. H. L. Tanner. No. 1,309,591; July 8; v. 264; p. 321.
- Compass, Gyroscopic. H. L. Tanner and H. H. Thompson. No. 1,309,592; July 8; v. 264; p. 321.
- Compass, Magnetic. A. V. F. Marion. No. 1,304,789; May 27; v. 262; p. 537.
- Compass, Magnetic. S. G. Starling and A. J. Hughes. No. 1,307,935; June 24; v. 263; p. 598.
- Compass, Mariner's. J. W. T. Olan. No. 1,307,637; June 24; v. 263; p. 543.
- Compasses. C. M. Finstad. No. 1,296,377; Mar. 4; v. 260; p. 127.
- Compasses. M. Martin. No. 1,294,294; Feb. 11; v. 259; p. 338.
- Compasses. F. B. Sheppard. No. 1,298,585; Mar. 25; v. 260; p. 697.
- Compasses, Dampening device for gyroscopic. J. E. Beattie. No. 1,308,693; July 1; v. 264; p. 126.
- Compasses, Drafting. J. Baca. No. 1,326,318; Dec. 30; v. 269; p. 741.
- Compasses, Repeater system for gyro-. E. A. Sperry. No. 1,296,440; Mar. 4; v. 260; p. 139.
- Composing-machine measuring mechanism. J. S. Bancroft. No. 1,300,237; Apr. 15; v. 261; p. 420.
- Composite article. W. H. Kempton. No. 1,309,758; July 15; v. 264; p. 389.
- Composite articles, Manufacturing. W. H. Kempton. No. 1,309,757; July 15; v. 264; p. 389.
- Composite board. H. H. Robertson. No. 1,292,067; Jan. 21; v. 258; p. 548.
- Composite board. J. P. Wright. No. 1,303,753; May 13; v. 262; p. 266.
- Composite gummed fabric. C. H. and G. H. Crowell. No. 1,323,022; Nov. 25; v. 268; p. 668.
- Composite product. L. T. Frederick. No. 1,318,742; Oct. 14; v. 267; p. 267.
- Composite product. L. T. Frederick. No. 1,318,743; Oct. 14; v. 267; p. 268.
- Composite ringing apparatus. H. S. Osborne. No. 1,313,413; Aug. 19; v. 265; p. 345.
- Composite stick. R. B. Coleman. No. 1,310,004; July 15; v. 264; p. 434.
- Composite tool. J. A. Gagnon. No. 1,302,357; Apr. 29; v. 261; p. 912.
- Composition. J. H. Cannon and J. M. Fream. No. 1,316,422; Sept. 16; v. 266; p. 382.
- Composition and making same, Molded. J. P. A. McCoy. No. 1,299,847; Apr. 8; v. 261; p. 309.
- Composition covering of structural shapes, Reinforcement for. D. H. Hayden. No. 1,300,835; Apr. 15; v. 261; p. 546.
- Composition of matter. T. Wakefield. No. 1,293,585; Feb. 4; v. 259; p. 142.
- Compound fabric. J. N. Briones. No. 1,306,518; June 10; v. 263; p. 274.
- Compound meter. C. G. de Laval and R. Heimbecker. No. 1,319,380; Oct. 21; v. 267; p. 415.
- Compound press. J. M. Pearson. No. 1,297,901; Mar. 18; v. 260; p. 528.
- Compound-turbine control mechanism. J. A. Davies. No. 1,302,639; May 6; v. 262; p. 30.
- Compressing and packing machine. C. E. McManus. No. 1,298,749; Apr. 1; v. 261; p. 30.
- Compressing-engine. S. Lippert. No. 1,324,056; Dec. 9; v. 269; p. 201.
- Compressing-tank, Automatic. J. W. Ginter. No. 1,323,854; Dec. 2; v. 269; p. 118.
- Compression-band. E. E. Bardsley. No. 1,322,082; Nov. 18; v. 268; p. 438.
- Compression inner tube. N. C. Doss. No. 1,295,011; Feb. 18; v. 259; p. 540.
- Compression-strip. E. V. Tower. No. 1,307,711; June 24; v. 263; p. 557.
- Compression-lock. G. C. Jensen. No. 1,294,669; Feb. 18; v. 259; p. 462.
- Compression-relieving mechanism. W. S. Harley. No. 1,301,256; Apr. 22; v. 261; p. 671.
- Compression rotary engine. E. G. Johanson. No. 1,316,957; Sept. 23; v. 266; p. 529.
- Compressor. T. H. Alfreds. No. 1,322,277; Nov. 18; v. 268; p. 476.
- Compressor. G. B. Ax. No. 1,306,680; June 17; v. 263; p. 337.
- Compressor. G. F. Maisch. No. 1,291,983; Jan. 21; v. 258; p. 527.
- Compressor. R. Rolkerr. No. 1,295,068; Feb. 18; v. 259; p. 553.
- Compressor. F. W. Wolf. No. 1,295,947; Mar. 4; v. 260; p. 29.
- Compressor. F. W. Wolf. No. 1,295,948; Mar. 4; v. 260; p. 29.
- Compressor and motor-starter. M. C. White. No. 1,323,939; Dec. 2; v. 269; p. 135.
- Compressor, Centrifugal. G. Flügel. No. 1,326,043; Dec. 23; v. 269; p. 653.
- Compressor, Centrifugal. L. C. Loewenstein. No. 1,325,255; Dec. 16; v. 269; p. 489.
- Compressor-controlling means. H. T. Herr. No. 1,291,875; Jan. 21; v. 258; p. 498.
- Compressor mechanism. G. Engelbrekt. No. 1,319,213; Oct. 21; v. 267; p. 383.
- Compressor, Motor-driven. L. L. Tatum. No. 1,315,433; Sept. 9; v. 266; p. 185.
- Compressor, Rotary. C. Hoerl. No. 1,291,520; Jan. 14; v. 258; p. 382.



- Compressor, Rotary. I. C. Jennings. No. 1,297,692; Mar. 18; v. 260; p. 481.
- Compressor service, Intake-unloader for. C. Wainright. No. 1,324,705; Dec. 9; v. 269; p. 325.
- Compressor system. L. K. Snell and F. Johnson. No. 1,324,079; Dec. 9; v. 269; p. 205.
- Compressor-unloader. H. V. Haight. No. 1,291,854; Jan. 21; v. 258; p. 493.
- Compressor-unloader. H. V. Haight. (Reissue.) No. 1,4662; June 10; v. 263; p. 303.
- Compressors and pumps, Shaft for rotary. B. Graemiger. No. 1,324,664; Dec. 9; v. 269; p. 317.
- Compressors. Cooling and flow-equalizing manifold for. M. Balloira. No. 1,319,831; Oct. 28; v. 267; p. 524.
- Computer. K. Horine. No. 1,306,379; June 10; v. 263; p. 248.
- Computing and recording machine. G. J. Barrett. No. 1,326,564; Dec. 30; v. 269; p. 788.
- Computing apparatus. G. V. Prasca. No. 1,315,576; Sept. 9; v. 266; p. 211.
- Computing attachment, Traveling. E. C. Walter. No. 1,295,396; Feb. 25; v. 259; p. 651.
- Computing-machine. J. H. Barr. No. 1,311,373; July 29; v. 264; p. 750.
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- Computing-machine. P. Fassa. No. 1,293,392; Feb. 4; v. 259; p. 97.
- Computing-machine. I. L. Lanier. No. 1,292,487; Jan. 28; v. 258; p. 669.
- Computing-machine. A. A. Moths. No. 1,322,329; Nov. 18; v. 268; p. 485.
- Computing-machine. W. Wright. No. 1,294,745; Feb. 18; v. 259; p. 479.
- Computing machine, Interest. S. P. Thompson. No. 1,311,100; July 22; v. 264; p. 666.
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- Computing-machines, Operating attachment for. S. B. Wilson. No. 1,314,844; Sept. 2; v. 266; p. 69.
- Computing-machines, Quotient mechanism for. J. F. Mays. No. 1,309,536; July 8; v. 264; p. 310.
- Computing-machines, Register mechanism for. O. D. Johantgen. No. 1,301,943; Apr. 29; v. 261; p. 834.
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- Concentrating solutions. P. Westin. No. 1,315,889; Sept. 9; v. 266; p. 268.
- Concentrating-table. A. E. Fish. No. 1,319,383; Oct. 21; v. 267; p. 415.
- Concentrating-table. C. C. Hebbard. No. 1,324,250; Dec. 9; v. 269; p. 238.
- Concentrating vision, Mechanical device for. D. E. Compere. No. 1,313,262; Aug. 19; v. 265; p. 317.
- Concentration of vinegar and acetic acid, Apparatus for. E. Klein. No. 1,291,025; Jan. 14; v. 258; p. 267.
- Concentrator. A. Baring-Gould. No. 1,296,737; Mar. 11; v. 260; p. 245.
- Concentrator and amalgamator. E. B. Bennett. No. 1,292,654; Jan. 28; v. 258; p. 718.
- Concrete. A. Marks. No. 1,309,296; July 8; v. 264; p. 266.
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- Concrete and other material, Machine for mixing and placing. W. G. Wilson. No. 1,290,459; Jan. 7; v. 258; p. 108.
- Concrete and similar cementitious materials, Mixing. H. P. Brown. No. 1,297,080; Mar. 11; v. 260; p. 321.
- Concrete and the like wall-blocks, Machinery employed in the manufacture of. C. J. Mannell and R. Rose. No. 1,310,359; July 15; v. 264; p. 498.
- Concrete, Apparatus for forming blocks of. J. T. Wismer. No. 1,307,993; June 24; v. 263; p. 610.
- Concrete, Apparatus for mixing and delivering. J. A. Gasteiger. No. 1,324,960; Dec. 16; v. 269; p. 434.
- Concrete block. T. T. Stuverud. No. 1,319,731; Oct. 28; v. 267; p. 504.
- Concrete-block construction. W. C. Parmley. No. 1,293,898; Feb. 11; v. 259; p. 245.
- Concrete-block machine. T. A. Sperry and C. R. Umbenbower. No. 1,307,796; June 24; v. 263; p. 573.
- Concrete-block structure, Reinforced. G. A. Zika. No. 1,322,390; Nov. 18; v. 268; p. 497.
- Concrete boats, Means for and method of building. C. O. Morris. No. 1,311,612; July 29; v. 264; p. 795.
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- Concrete building. S. B. Moore. No. 1,305,230; May 27; v. 262; p. 620.
- Concrete building-blocks, Mold-machine for. L. Bracco. No. 1,308,838; July 8; v. 264; p. 180.
- Concrete building construction. R. B. Hartman. No. 1,295,311; Feb. 25; v. 259; p. 632.
- Concrete building construction, Form for. A. J. Ortseifen. No. 1,325,261; Dec. 16; v. 269; p. 491.
- Concrete building constructions, Reinforcing member of. L. M. Perrott. No. 1,318,405; Oct. 14; v. 267; p. 203.
- Concrete building-slab. J. Bellingham. No. 1,294,224; Feb. 11; v. 259; p. 323.
- Concrete buildings, Constructing. W. H. Halverson, F. Wilcock, and H. Treichel. No. 1,326,400; Dec. 30; v. 269; p. 756.
- Concrete ceiling and making same, Plastered. M. Y. Seaton and J. S. Harris. No. 1,300,493; Apr. 15; v. 261; p. 474.
- Concrete cellars, vaults, basements, &c., Drainage system for. C. Y. McLeod. No. 1,320,256; Oct. 28; v. 267; p. 603.
- Concrete-clip. S. B. Masten. No. 1,304,586; May 27; v. 262; p. 499.
- Concrete-column mold. R. B. Hartman. No. 1,295,310; Feb. 25; v. 259; p. 631.
- Concrete columns, Mold for. C. L. Meyer and R. O. MacMonagle. No. 1,313,005; Aug. 12; v. 265; p. 251.
- Concrete-conduit-construction form. C. D. McArthur. No. 1,291,042; Jan. 14; v. 258; p. 272.
- Concrete conduit, Reinforced. J. B. Blaw. No. 1,310,597; July 22; v. 264; p. 573.
- Concrete conduit, Sectional. G. D. Case. No. 1,320,313; Oct. 28; v. 267; p. 613.
- Concrete conduits, Machine for forming. L. H. Houck. No. 1,302,370; Apr. 29; v. 261; p. 914.
- Concrete construction. E. F. Allbright. No. 1,307,031; June 17; v. 263; p. 401.
- Concrete construction. T. Aten. No. 1,307,432; June 24; v. 263; p. 507.
- Concrete construction. E. Steude. No. 1,316,812; Sept. 23; v. 266; p. 503.
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- Concrete construction, Arch-mold for. S. R. McKay. No. 1,293,838; Feb. 11; v. 259; p. 232.
- Concrete construction, Centering apparatus for. C. O. Ellert. No. 1,317,564; Sept. 30; v. 266; p. 682.
- Concrete construction, Floatable. J. S. Williams. No. 1,310,461; July 22; v. 264; p. 548.
- Concrete construction, Form for. J. H. Cresmer. No. 1,323,020; Nov. 25; v. 268; p. 667.
- Concrete construction, Interlocking reinforcing-bar for. M. C. Harris. No. 1,301,259; Apr. 22; v. 261; p. 671.
- Concrete-construction mold. R. T. Wales. No. 1,308,269; July 1; v. 264; p. 48.
- Concrete-construction mold. R. T. Wales. No. 1,312,462; Aug. 5; v. 265; p. 115.
- Concrete construction, Reinforced. R. C. Gautier. No. 1,318,861; Oct. 14; v. 267; p. 290.
- Concrete construction, Reinforcing-bar for. W. Goldie. No. 1,315,661; Sept. 9; v. 266; p. 225.
- Concrete construction, Spacer and tie in continuous strip for. C. A. Hanson. No. 1,293,421; Feb. 4; v. 259; p. 104.
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- Concrete construction, Support for metallic reinforces in. D. W. Brooks. No. 1,321,786; Nov. 11; v. 268; p. 333.
- Concrete construction-work, Clip for reinforcing-bars for. K. D. Stewart. No. 1,306,129; June 10; v. 263; p. 199.
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- Concrete distribution, Boom-skip gravity plant for. W. H. Insley and A. C. Rasmussen. No. 1,324,900; Dec. 16; v. 269; p. 423.
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- Concrete fireproofing structural steel, System or method of. F. P. Kafka. No. 1,306,701; June 17; v. 263; p. 340.
- Concrete floor construction. R. B. Hartman. No. 1,318,995; Oct. 14; v. 267; p. 316.
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- Concrete floors and walls, Apparatus for constructing. W. L. Church. No. 1,293,036; Feb. 4; v. 259; p. 15.



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- Concrete floors, decks, such as decks of ships, deck-floors for bridges, and the like. Construction of reinforced-. E. O. Williams. No. 1,310,515; July 22; v. 264; p. 558.
- Concrete floors. Erecting ribbed. A. J. Widmer. No. 1,291,324; Jan. 14; v. 258; p. 336.
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- Concrete-form. H. O. Davidson. No. 1,319,048; Oct. 21; v. 267; p. 352.
- Concrete-form. H. O. Davidson and O. Hillman. No. 1,324,881; Dec. 16; v. 269; p. 419.
- Concrete-form. J. W. Heltzel. No. 1,309,068; July 8; v. 264; p. 224.
- Concrete-form. S. R. McKay. No. 1,299,200; Apr. 1; v. 261; p. 193.
- Concrete-form. S. R. McKay. No. 1,300,435; Apr. 15; v. 261; p. 461.
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- Concrete girder. Reinforced-. J. E. Heber. No. 1,318,870; Oct. 14; v. 267; p. 292.
- Concrete-hull-construction form. C. Z. Hubbell. No. 1,299,728; Apr. 8; v. 261; p. 282.
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- Concrete. Inserts for. H. N. Cain. No. 1,314,854; Sept. 2; v. 266; p. 70.
- Concrete-joist form. H. L. Wells. No. 1,301,770; Apr. 22; v. 261; p. 771.
- Concrete. Making. E. L. Zukoski. No. 1,316,071; Sept. 16; v. 266; p. 315.
- Concrete. Making porous. E. Walter. No. 1,313,931; Aug. 26; v. 265; p. 476.
- Concrete-metal reinforcement. J. H. Walker. No. 1,291,298; Jan. 14; v. 258; p. 330.
- Concrete. Method of and apparatus for mixing. H. P. Brown. No. 1,297,081; Mar. 11; v. 260; p. 322.
- Concrete. Method of and apparatus for mixing. R. G. Randall. No. 1,312,207; Aug. 5; v. 265; p. 67.
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- Concrete-mixer. W. Amende, L. F. Kuhnhehn, and J. T. Henry. No. 1,323,434; Dec. 2; v. 269; p. 40.
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- Concrete-mixer. E. Brown. No. 1,314,124; Aug. 26; v. 265; p. 513.
- Concrete-mixer. E. P. Leach. No. 1,324,257; Dec. 9; v. 269; p. 239.
- Concrete-mixer. C. T. Madsen. No. 1,291,981; Jan. 21; v. 258; p. 526.
- Concrete-mixer. E. Whalley. No. 1,322,854; Nov. 25; v. 268; p. 636.
- Concrete mixer and conveyor. D. C. Basolo and I. K. Shero. No. 1,307,803; June 24; v. 263; p. 574.
- Concrete-mixer-charging device. H. O. Stamp. No. 1,298,114; Mar. 25; v. 260; p. 596.
- Concrete-mixer. Hand. R. L. Miller. No. 1,293,506; Feb. 4; v. 259; p. 124.
- Concrete-mixer loader. H. O. Stamp. No. 1,290,797; Jan. 7; v. 258; p. 189.
- Concrete-mixer. Rotary. E. H. Lichtenberg. No. 1,298,743; Apr. 1; v. 261; p. 29.
- Concrete-mixers. Discharge-spout for. L. H. Draeger. No. 1,308,148; July 1; v. 264; p. 26.
- Concrete-mixers. Drum for. G. Jaeger. No. 1,322,575; Nov. 25; v. 268; p. 584.
- Concrete mixing and delivering apparatus. C. R. Weaver. No. 1,300,671; July 15; v. 264; p. 373.
- Concrete-mixing machine. F. D. Chapman. No. 1,322,289; Nov. 18; v. 268; p. 478.
- Concrete-mixing machine. R. M. Craig. No. 1,321,890; Nov. 18; v. 268; p. 403.
- Concrete-mold. A. S. Greene. No. 1,324,811; Dec. 16; v. 269; p. 407.
- Concrete-mold. H. G. Larzelere. No. 1,313,393; Aug. 19; v. 265; p. 341.
- Concrete-molds. Means for raising. F. R. McQueen. No. 1,297,883; Mar. 18; v. 260; p. 521.
- Concrete-molding apparatus. J. W. Caughy. No. 1,294,874; Feb. 18; v. 259; p. 510.
- Concrete-molding machine. J. T. Wisner. No. 1,323,345; Dec. 2; v. 269; p. 23.
- Concrete or equivalent material. Building made of blocks of. H. J. Fogg. No. 1,312,968; Aug. 12; v. 265; p. 243.
- Concrete or like building-block and making same. T. Sutcliffe. No. 1,316,521; Sept. 16; v. 266; p. 401.
- Concrete or other types of pavement. Device for and method of installing joint-filling material in. J. Avery. No. 1,313,873; Aug. 26; v. 265; p. 465.
- Concrete pavements. Laying. T. H. Johnson. No. 1,314,810; Sept. 2; v. 266; p. 63.
- Concrete-paving machine. D. Elder. No. 1,296,495; Mar. 4; v. 260; p. 151.
- Concrete piles. Means for forming. M. Miller. No. 1,296,995; Mar. 11; v. 260; p. 303.
- Concrete pipe. G. C. Bartram. No. 1,292,992; Feb. 4; v. 259; p. 5.
- Concrete pipe. J. Hickson. No. 1,302,553; May 8; v. 262; p. 14.
- Concrete-pipe machine. J. H. Carr. No. 1,309,878; July 15; v. 264; p. 411.
- Concrete pipe. Metal-reinforced. J. C. Poling. No. 1,325,678; Dec. 23; v. 269; p. 585.
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- Concrete poles from their molds. Method and apparatus for removing. C. F. Massey. No. 1,315,733; Sept. 9; v. 266; p. 238.
- Concrete post. E. F. Dille. No. 1,296,053; Mar. 4; v. 260; p. 54.
- Concrete-post mold. L. A. and B. A. Granger. No. 1,323,689; Dec. 2; v. 269; p. 87.
- Concrete-post mold. W. G. Henkle. No. 1,298,341; Mar. 25; v. 260; p. 644.
- Concrete posts and the like. Mold for reinforced-. H. A. Landwehr. No. 1,299,739; Apr. 8; v. 261; p. 284.
- Concrete posts or the like. Forming reinforced-. H. A. Landwehr. No. 1,299,842; Apr. 8; v. 261; p. 308.
- Concrete rail for motor-driven vehicles with rubber tires. L. D. Rivero. No. 1,322,621; Nov. 25; v. 268; p. 593.
- Concrete railway-tie. Reinforced-. H. B. W. T. and G. Wiebler. No. 1,322,985; Nov. 25; v. 268; p. 660.
- Concrete-reinforcements. Bar support and spacer for. H. H. Lampert. No. 1,296,296; Mar. 4; v. 260; p. 109.
- Concrete-reinforcements. Holding-clip for. C. Weber. No. 1,311,932; Aug. 5; v. 265; p. 15.
- Concrete-reinforcing element. G. C. Royse. No. 1,317,824; Oct. 7; v. 267; p. 31.
- Concrete reservoir. Reinforced-. W. Mueser. No. 1,301,154; Apr. 22; v. 261; p. 651.
- Concrete-road-laying machine. O. Lance. No. 1,303,566; May 13; v. 262; p. 231.
- Concrete. Sandless. C. H. Light. No. 1,309,038; July 8; v. 264; p. 219.
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- Concrete ships and tankers. Piping system for. E. L. Heidenrich. No. 1,302,547; May 6; v. 262; p. 13.
- Concrete-silo-construction form. B. Riggs. No. 1,301,364; Apr. 22; v. 261; p. 693.
- Concrete silo-chute. B. L. Carpenter. No. 1,321,797; Nov. 11; v. 268; p. 335.
- Concrete slabs. Apparatus for making. C. R. Burkhardt. No. 1,291,637; Jan. 14; v. 258; p. 410.
- Concrete structure. W. H. Coggan. No. 1,325,079; Dec. 16; v. 269; p. 456.
- Concrete structure and constructing the same. C. Weber. No. 1,307,224; June 17; v. 263; p. 435.
- Concrete-structure mold or form. E. Merrick. No. 1,301,959; Apr. 29; v. 261; p. 837.
- Concrete structures. Apparatus for the production of. T. A. Edison. No. 1,326,854; Dec. 30; v. 269; p. 842.
- Concrete structures. Dome for. E. C. Marqua. No. 1,305,299; June 3; v. 263; p. 13.
- Concrete structures. Form for. S. J. Harry and W. E. Kelly. No. 1,298,941; Apr. 1; v. 261; p. 75.
- Concrete structures. Form for. A. J. Penote. No. 1,316,462; Sept. 16; v. 266; p. 389.
- Concrete structures. Metallic reinforcement for. F. M. Barton. No. 1,293,301; Feb. 4; v. 259; p. 77.
- Concrete structures. Method and apparatus for providing. M. Hirschthal. No. 1,301,561; Apr. 22; v. 261; p. 729.
- Concrete structures. Molding apparatus for forming. T. L. Wolfe. No. 1,292,203; Jan. 21; v. 258; p. 581.
- Concrete structures. Reinforcing means for. W. Goldie. No. 1,312,908; Aug. 12; v. 265; p. 231.
- Concrete structures. Removable form for. A. A. Zakharoff. No. 1,316,610; Sept. 23; v. 266; p. 466.
- Concrete tank or reservoir. Reinforced-. W. Mueser. No. 1,301,155; Apr. 22; v. 261; p. 651.
- Concrete tie. Reinforced-. J. Nelson. No. 1,318,904; Oct. 14; v. 267; p. 299.
- Concrete tiles. Mold for the manufacture of. H. J. Bradt. No. 1,312,827; Aug. 12; v. 265; p. 216.
- Concrete trusses. Form for. O. B. Young. No. 1,314,725; Sept. 2; v. 266; p. 48.
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- Concrete-wall-constructing apparatus. C. Brynoldt. No. 1,298,450; Mar. 25; v. 260; p. 668.
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- Concrete wall construction and forming same. F. E. Walters. No. 1,325,063; Dec. 16; v. 269; p. 453.
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- Concrete-wall-mold device. J. M. Thompson. No. 1,291,257; Jan. 14; v. 258; p. 321.
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- Concrete walls, Forming. W. D. Burgin. No. 1,305,687; June 3; v. 263; p. 87.
- Concrete window or door frames and trims, Mold for. R. S. Cade. No. 1,326,251; Dec. 30; v. 269; p. 729.
- Concrete without the use of false work or mold, Flooring in armored. A. Haller. No. 1,304,964; May 27; v. 262; p. 569.
- Concrete work and structures produced therefrom, Form for. F. L. Norton. No. 1,321,938; Nov. 18; v. 268; p. 413.
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- Concrete-work fastener. J. S. Birch. No. 1,311,036; July 22; v. 264; p. 654.
- Concrete work, Reinforcing-bar for. I. R. H. Cormack. No. 1,299,407; Apr. 1; v. 261; p. 180.
- Concrete work, Separable core for. E. N. Goodlett and J. B. Goodwin. No. 1,290,972; Jan. 14; v. 258; p. 256.
- Condenser. J. J. Bajda. No. 1,317,262; Sept. 30; v. 266; p. 623.
- Condenser. R. N. Ehrhart. No. 1,312,898; Aug. 12; v. 265; p. 229.
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- Condenser distributing-trough. G. M. Kleucker. No. 1,291,926; Jan. 21; v. 258; p. 513.
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- Condensers, Making electrical. W. C. Brinton, Jr. No. 1,307,341; June 24; v. 263; p. 490.
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- Cone-holder. J. De Rake. No. 1,305,164; May 27; v. 262; p. 607.
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- Cone-tube. H. L. Tiffany. No. 1,321,861; Nov. 18; v. 268; p. 398.
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- Container-jack. J. E. F. M., and J. W. Shull. No. 1,295,377; Feb. 25; v. 259; p. 646.
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- Container, Mucilage or the like. R. F. Williams. No. 1,309,501; July 8; v. 264; p. 303.
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- Conveying system. F. L. Stuart. No. 1,325,055; Dec. 16; v. 269; p. 451.
- Conveying system. Ash. H. A. Poppenhusen. No. 1,305,491; June 3; v. 263; p. 49.
- Cooker. A. M. Demuth. No. 1,308,485; July 1; v. 264; p. 87.
- Cooker. A. M. Demuth. No. 1,323,028; Nov. 25; v. 268; p. 669.
- Cooker. H. B. Dutton. No. 1,323,525; Dec. 2; v. 269; p. 57.
- Cooker. N. H. Fooks. No. 1,318,985; Oct. 14; v. 267; p. 314.
- Cooker. A. Johnson. No. 1,302,170; Apr. 29; v. 261; p. 876.
- Cooker. A. Johnson. No. 1,302,171; Apr. 29; v. 261; p. 876.
- Cooker. I. F. Newhall. No. 1,309,444; July 8; v. 264; p. 293.
- Cooker and service device. Combined. P. E. Speaks. No. 1,300,504; Apr. 15; v. 261; p. 476.
- Cooker and water-heater. Combination. E. M. Mouser. No. 1,318,686; Oct. 14; v. 267; p. 257.
- Cooker, Automatic. C. F. Ford. No. 1,310,495; July 22; v. 264; p. 554.
- Cooker, Automatic electric. T. A. Cutting. No. 1,326,443; Dec. 30; v. 269; p. 764.
- Cooker, Fireless. M. R. and O. P. Hall. No. 1,298,202; Mar. 25; v. 260; p. 615.
- Cooker, Fireless. C. F. Hansen. No. 1,320,002; Oct. 28; v. 267; p. 555.
- Cooker for seed-meats. H. T. Fryant and W. R. Crout. No. 1,309,595; July 8; v. 264; p. 322.
- Cooker, steam. W. C. Ferris. No. 1,311,957; Aug. 5; v. 265; p. 20.
- Cooker, Steam. E. T. Meakin and F. E. Booth. No. 1,307,508; June 24; v. 263; p. 521.
- Cooker, Stirring. G. A. Lambert. No. 1,303,333; May 13; v. 262; p. 189.
- Cooking apparatus. B. W. Allis. No. 1,318,308; Oct. 7; v. 267; p. 124.
- Cooking apparatus. J. S. Baker. No. 1,315,074; Sept. 2; v. 266; p. 110.
- Cooking apparatus. J. S. Baker. No. 1,315,075; Sept. 2; v. 266; p. 110.
- Cooking apparatus. J. S. Baker. No. 1,315,076; Sept. 2; v. 266; p. 110.
- Cooking apparatus. A. P. Colias. No. 1,312,833; Aug. 12; v. 265; p. 217.
- Cooking apparatus. Submersible. F. Cammans. No. 1,317,071; Sept. 23; v. 266; p. 551.
- Cooking kit, Box. B. B. Gilbert. No. 1,302,911; May 6; v. 262; p. 83.
- Cooking utensil. O. R. Berger. No. 1,323,817; Dec. 2; v. 269; p. 111.
- Cooking utensil. R. J. Bogue. No. 1,307,078; June 17; v. 263; p. 410.
- Cooking utensil. W. E. Browning. No. 1,304,448; May 20; v. 262; p. 434.
- Cooking utensil. A. H. Brunner. No. 1,316,827; Sept. 23; v. 266; p. 506.
- Cooking utensil. J. E. Hettinger. No. 1,323,473; Dec. 2; v. 269; p. 47.
- Cooking utensil. J. McFarland. No. 1,305,818; June 3; v. 263; p. 111.
- Cooking utensil. H. S. Murray. No. 1,318,790; Oct. 14; v. 267; p. 276.
- Cooking utensil. M. M. O'Donnell. No. 1,310,208; July 15; v. 264; p. 471.
- Cooking utensil. S. H. Petro. No. 1,304,508; May 20; v. 262; p. 446.
- Cooking utensil. H. Schlesinger. No. 1,326,214; Dec. 30; v. 269; p. 721.
- Cooking utensil. C. V. Tiers. No. 1,299,267; Apr. 1; v. 261; p. 148.
- Cooking utensil. D. P. Varner. No. 1,297,938; Mar. 18; v. 260; p. 534.
- Cooking-utensil attachment. L. Held. No. 1,290,186; Jan. 7; v. 258; p. 42.
- Cooking utensil. Enameled or granite ware. J. A. Caldwell. No. 1,308,622; July 1; v. 264; p. 112.
- Cooking utensil. Fireless. P. H. Russell. No. 1,310,635; July 22; v. 264; p. 580.
- Cooking-utensil handle. J. C. Logan. No. 1,316,623; Sept. 23; v. 266; p. 468.
- Cooking utensils. Smoke-hood for. A. J. Grenon. No. 1,308,412; July 1; v. 264; p. 74.
- Cooking vessel. J. Orawiec. No. 1,294,942; Feb. 18; v. 259; p. 525.
- Cooking vessel. Sanitary. O. M. Olsen. No. 1,291,620; Jan. 14; v. 258; p. 406.
- Cooler. See—  
     Cream-cooler. Vegetable-cooler.  
     Liquid-cooler. Water-cooler.
- Cooler. T. M. Chapman. No. 1,290,085; Jan. 7; v. 258; p. 17.
- Cooler. D. L. Evans and F. A. Phillippi. No. 1,313,624; Aug. 19; v. 265; p. 385.
- Cooling and conveying mechanism. W. J. Todhunter. No. 1,298,828; Apr. 1; v. 261; p. 49.
- Cooling and oxidation apparatus. I. Hechenbleikner. No. 1,311,395; July 29; v. 264; p. 754.
- Cooling and ventilating method. C. S. Ashley. No. 1,297,633; Mar. 18; v. 260; p. 468.
- Cooling apparatus. Dry. R. E. Davis. No. 1,293,721; Feb. 11; v. 259; p. 204.
- Cooling-fan. G. L. McCain. No. 1,292,830; Jan. 28; v. 258; p. 751.
- Cooling or cooking box. A. Boerner. No. 1,295,417; Feb. 25; v. 259; p. 656.
- Cooling-radiator and correlating same with motors. H. N. Searles. No. 1,293,946; Feb. 11; v. 259; p. 257.
- Cooling system. W. W. Muir. No. 1,311,528; July 29; v. 264; p. 780.
- Cooling system. W. W. Muir. No. 1,311,529; July 29; v. 264; p. 780.
- Cooling system. C. R. Sutton. No. 1,301,794; Apr. 22; v. 261; p. 776.
- Cooling utensil. S. Möller. No. 1,311,990; Aug. 5; v. 265; p. 26.
- Cooling, ventilating, heating, humidifying, and purifying appliances. B. Macfadden. No. 1,309,953; July 15; v. 264; p. 425.
- Coop. C. D. Hixson. No. 1,313,691; Aug. 19; v. 265; p. 397.
- Coop. P. J. Speicher. No. 1,303,736; May 13; v. 262; p. 262.
- Coop, Chicken. J. E. Shoemaker. No. 1,294,960; Feb. 18; v. 259; p. 529.
- Coop, Collapsible. S. R. Stutler. No. 1,298,598; Mar. 25; v. 260; p. 699.
- Coop, Folding chicken or poultry. J. M. Upton. No. 1,306,132; June 10; v. 263; p. 200.
- Cop-holder. C. A. Brink. No. 1,317,545; Sept. 30; v. 266; p. 678.
- Copper and its alloys from attack by atmospheres or liquids. Protecting. G. Bengough and O. F. Hudson. No. 1,319,508; Oct. 21; v. 267; p. 439.
- Copper-cadmium alloy. Making. W. C. Smith. No. 1,307,642; June 24; v. 263; p. 544.
- Copper compound of substantive orthooxyazo dyestuff and making same. E. Anderwert, H. Fritzsche, and H. Schobel. No. 1,292,385; Jan. 21; v. 258; p. 624.
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- Copper from ore. Extracting. R. S. Edwards. No. 1,319,858; Oct. 28; v. 267; p. 529.
- Copper from ores, &c., Extracting. N. Evans. No. 1,296,670; Mar. 18; v. 260; p. 476.
- Copper, Hardening. F. H. Ruth. No. 1,326,693; Dec. 30; v. 269; p. 811.
- Copper ores by lixiviation with an SO<sub>2</sub> solution. N. C. Christensen. No. 1,316,351; Sept. 16; v. 266; p. 368.
- Copper ores by sulfatization and flotation. Treating. N. C. Christensen. No. 1,316,352; Sept. 16; v. 266; p. 368.
- Copper ores, Leaching. J. J. Nelson. No. 1,326,463; Dec. 30; v. 269; p. 768.
- Copy and book holder. H. Safford. No. 1,319,535; Oct. 21; v. 267; p. 444.
- Copy-holder. A. O. Brown. No. 1,321,592; Nov. 11; v. 268; p. 297.
- Copy-holder. C. R. Drake and T. H. Bishop. No. 1,290,933; Jan. 14; v. 258; p. 247.
- Copy-holder. E. T. Gibson. No. 1,308,010; June 24; v. 263; p. 613.
- Copy-holder. E. Graham. No. 1,313,812; Aug. 19; v. 265; p. 420.
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- Copy-liner. G. P. Doherty. No. 1,309,937; July 15; v. 264; p. 422.
- Copying-machine cutting device. G. D. Buck. No. 1,301,379; Apr. 22; v. 261; p. 696.
- Copying machine, Multiple. J. J. Flanagan. No. 1,317,486; Sept. 30; v. 266; p. 666.
- Cord-fastener lock. G. C. Burton. No. 1,311,040; July 22; v. 264; p. 655.
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- Cordage-tip. A. Slagenhauf. No. 1,326,143; Dec. 23; v. 269; p. 671.
- Core-bar puller. T. P. Anthony. No. 1,304,142; May 20; v. 262; p. 374.
- Core-barrel. G. A. Humason and W. L. Childs. No. 1,318,493; Oct. 14; v. 267; p. 220.
- Core-box. W. K. Levering. No. 1,301,578; Apr. 22; v. 261; p. 732.
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- Core, Collapsible. F. H. Grove, E. M. McCurry, and G. R. Bilger. No. 1,325,670; Dec. 23; v. 269; p. 583.
- Core, Collapsible. R. M. Webb. No. 1,307,283; June 17; v. 263; p. 446.
- Core-drill. F. Miller. No. 1,297,889; Mar. 18; v. 260; p. 523.
- Core-drills. Feeding means for. C. C. Hansen. No. 1,317,875; Oct. 7; v. 267; p. 41.
- Core for balls of yarn, &c. A. H. Schloerb. No. 1,294,178; Feb. 11; v. 259; p. 312.
- Core for electrical apparatus. I. H. Sclater. No. 1,310,299; July 15; v. 265; p. 487.
- Core for molds, Collapsible. C. F. Buente. No. 1,312,157; Aug. 5; v. 265; p. 57.
- Core-loss tester. G. A. Kelsall. No. 1,296,813; Mar. 11; v. 260; p. 260.
- Core-machine. H. B. Swan. No. 1,311,425; July 29; v. 264; p. 760.
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- Core-oven doors, Safety device for. F. A. Coleman and L. O. Ambrose. No. 1,314,572; Sept. 2; v. 266; p. 19.
- Core-pulling machine. F. L. A. Stindt. No. 1,320,289; Oct. 28; v. 267; p. 609.
- Core-rack. H. M. Lane. No. 1,298,359; Mar. 25; v. 260; p. 647.
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- Core structure, Collapsible. L. D. Bower and S. B. Elder. No. 1,299,542; Apr. 8; v. 261; p. 238.
- Core-tamping machines, Foot-operated ejecting mechanism for. J. Graves. No. 1,319,863; Oct. 28; v. 267; p. 530.
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- Cores or the like, Apparatus for use in making. R. C. Pattison. No. 1,305,667; June 3; v. 263; p. 83.
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- Cork-blocking machines, Ejecting mechanism for. E. Alberti. No. 1,291,703; Jan. 21; v. 258; p. 456.
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- Corn drier, Seed-. A. F. Carton. No. 1,293,333; Feb. 4; v. 259; p. 83.
- Corn-drier. J. A. Scharf. No. 1,319,422; Oct. 21; v. 267; p. 423.
- Corn-elevator. J. H. Gilman. (Reissue.) No. 14,705; Aug. 12; v. 265; p. 298.
- Corn for storage, Method and apparatus for preparing. J. Getz and M. Shives. No. 1,307,046; June 17; v. 263; p. 404.
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- Corn header, Kadr-. R. R. Bowers. No. 1,321,805; Nov. 18; v. 268; p. 388.
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- Corn-busking implement. G. W. Ray. No. 1,296,120; Mar. 4; v. 260; p. 70.
- Corn-busking machine. F. A. Fishbaugh. No. 1,315,714; Sept. 9; v. 266; p. 235.
- Corn-busking machine. S. E. and W. W. Morral. No. 1,314,353; Aug. 26; v. 265; p. 558.
- Corn-busking machine. W. Smolley. No. 1,317,736; Oct. 7; v. 267; p. 14.
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- Corn rack, Seed-. W. Lane. No. 1,310,486; July 22; v. 264; p. 552.
- Corn-sheller. T. Brown. No. 1,323,522; Dec. 2; v. 269; p. 56.
- Corn-sheller. J. H. and A. E. Gilman. No. 1,322,303; Nov. 18; v. 268; p. 480.
- Corn snapper, husker, and sifter, Combined. J. J. Lange and A. W. Evers. No. 1,291,938; Jan. 21; v. 258; p. 516.
- Corn stringer and hanger, Seed-. A. A. Mitchell. No. 1,292,007; Jan. 21; v. 258; p. 533.
- Corn tester, Seed-. A. Knutson. No. 1,293,803; Feb. 11; v. 259; p. 224.
- Corn-turner. R. E. Brune. No. 1,318,963; Oct. 14; v. 267; p. 310.
- Corn-turning and edge-creasing machine, Garment. A. M. Zimmermann. No. 1,313,777; Aug. 19; v. 265; p. 414.
- Cornstalk-turner. W. A. Hunnicutt. No. 1,297,173; Mar. 11; v. 260; p. 341.
- Corner and division bar. G. C. Hester. No. 1,307,972; June 24; v. 263; p. 605.
- Corner and division bar. G. C. Hester. No. 1,307,973; June 24; v. 263; p. 606.
- Corner-block, Hollow. F. Heath. No. 1,294,905; Feb. 18; v. 259; p. 516.
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- Corner-bracket. J. A. Conterio. No. 1,325,143; Dec. 16; v. 269; p. 468.
- Corner-cleaning implement. R. E. Severance. No. 1,319,493; Oct. 21; v. 267; p. 437.
- Corner-fastening. G. W. Sessions. No. 1,322,962; Nov. 25; v. 268; p. 656.
- Corner, Mounting. L. S. Riley. No. 1,326,139; Dec. 23; v. 269; p. 670.
- Corner-piece. A. P. Cochrane. No. 1,320,205; Oct. 28; v. 267; p. 593.
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- Coronet and other brass instrument attachment. C. J. Magin. No. 1,301,147; Apr. 22; v. 261; p. 649.
- Cornets and similar instruments, Mouthpiece for. B. Christiano. No. 1,305,691; June 3; v. 263; p. 87.
- Cornice, Adjustable. W. Goodrow. No. 1,304,678; May 27; v. 262; p. 516.
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- Corpus luteum, Manufacture of menses-increasing substance from. L. Seitz and H. Wintz. No. 1,318,698; Oct. 14; v. 267; p. 259.
- Corrector, Hallux-. C. M. Stuck. No. 1,291,236; Jan. 14; v. 258; p. 316.
- Corrosion-resisting conduit-pipe. C. A. Rose and G. Monrath. No. 1,310,715; July 22; v. 264; p. 595.
- Corrugated fastener. S. C. Cary and H. H. Brand. No. 1,295,268; Feb. 25; v. 259; p. 622.
- Corrugated-paper tube. G. H. Bartlett. No. 1,319,455; Oct. 21; v. 267; p. 429.
- Corrugator. F. W. Fisher and J. C. Olsen. No. 1,314,315; Aug. 26; v. 265; p. 550.
- Corrugator. C. L. Roberts. No. 1,324,210; Dec. 9; v. 269; p. 230.
- Corset. J. E. Heilner. No. 1,293,427; Feb. 4; v. 259; p. 105.
- Corset. G. Heilner. No. 1,311,444; July 29; v. 264; p. 763.
- Corset. G. Heilner. No. 1,317,623; Sept. 30; v. 266; p. 693.
- Corset. J. L. Holt. No. 1,322,018; Nov. 18; v. 268; p. 427.
- Corset. D. C. Kellogg and F. Rockett. No. 1,315,967; Sept. 16; v. 266; p. 297.
- Corset. A. J. Lecoutre. No. 1,304,891; May 27; v. 262; p. 556.
- Corset. E. Sonntag. No. 1,303,512; May 13; v. 262; p. 321.
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- Corset, Apparel-. D. Kops. No. 1,317,508; Sept. 30; v. 266; p. 670.
- Corset, Apparel-. D. Kops. No. 1,318,156; Oct. 7; v. 267; p. 94.
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- Corset-bone protector. E. M. Chandler. No. 1,326,322; Dec. 30; v. 269; p. 741.
- Corset, Brassière. M. R. L. Strocker. No. 1,312,459; Aug. 5; v. 265; p. 114.
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- Corset-clasps, Slotted member for. H. A. Keller. No. 1,319,289; Oct. 21; v. 267; p. 397.
- Corset-closure. E. B. Cady. No. 1,295,690; Feb. 25; v. 259; p. 720.
- Corset-cover. B. L. Kaplan. No. 1,299,957; Apr. 8; v. 261; p. 332.
- Corset-cover and brassière, Combination. D. E. Donaldson. No. 1,317,621; Sept. 30; v. 266; p. 693.
- Corset-fastener. G. C. Green. No. 1,307,667; June 24; v. 263; p. 548.
- Corset, Front-lace. J. Lernowitz. No. 1,292,491; Jan. 28; v. 258; p. 670.
- Corset, Laccress. J. H. Mitchell. No. 1,294,138; Feb. 11; v. 259; p. 303.
- Cost-recording appliance. C. E. Devers. No. 1,312,684; Aug. 12; v. 265; p. 187.
- Corset-spring. C. E. Fitzpatrick. No. 1,317,622; Sept. 30; v. 266; p. 693.
- Corset-stay. A. Shorrock. No. 1,297,742; Mar. 18; v. 260; p. 492.
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- Corsets, Hip-brassière attachment for. F. C. Morse. No. 1,319,604; Oct. 21; v. 267; p. 458.
- Costumer and wardrobe, Combined. A. H. Haney. No. 1,323,469; Dec. 2; v. 269; p. 46.
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- Cot. J. W. Winzeler. No. 1,316,662; Sept. 23; v. 266; p. 476.
- Cot and bench, Combination. A. A. Almen. No. 1,312,299; Aug. 5; v. 265; p. 83.
- Cot, Collapsible. E. M. Key. No. 1,300,621; Apr. 15; v. 261; p. 500.
- Cot, Collapsible. I. S. Purcell. No. 1,300,872; Apr. 15; v. 261; p. 554.
- Cot, Collapsible or folding. J. M. Line. No. 1,317,141; Sept. 23; v. 266; p. 565.
- Cot, Folding. J. Luppino. No. 1,294,925; Feb. 18; v. 259; p. 521.
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- Cot, Separable. I. S. Purcell. No. 1,323,201; Nov. 25; v. 268; p. 702.
- Cot, surgical stretcher, and military knapsack, Combined field. A. Luria. No. 1,305,388; June 3; v. 263; p. 30.
- Cotter-pin. C. F. Heinkel. No. 1,300,609; Apr. 15; v. 261; p. 498.
- Cotter-pin extractor. W. E. Aylor and M. A. McGuff. No. 1,319,829; Oct. 28; v. 267; p. 523.
- Cotter-pin puller. G. A. Berg. No. 1,302,287; Apr. 29; v. 261; p. 898.
- Cotter-pin puller. H. H. Norris. No. 1,321,140; Nov. 11; v. 268; p. 211.
- Cotter-pin remover. J. D. Biscayart. No. 1,297,785; Mar. 18; v. 260; p. 502.
- Cotter-pin, Self-locking. L. C. Wilson. No. 1,308,018; June 24; v. 263; p. 614.
- Cotton and other fibrous materials, Machine for opening, scrutching, and similarly treating. J. L. Rushton. No. 1,310,545; July 22; v. 264; p. 563.
- Cotton-bolls, Maturing. F. D. Maisch. No. 1,317,983; Oct. 7; v. 267; p. 62.
- Cotton-chopper. J. R. Davidson. No. 1,314,307; Aug. 26; v. 265; p. 549.
- Cotton-chopper. H. G. Dewey. No. 1,300,133; Apr. 8; v. 261; p. 370.
- Cotton-chopper. R. L. Ingram. No. 1,325,566; Dec. 23; v. 269; p. 564.
- Cotton-chopper. H. T. Janes. No. 1,303,798; May 13; v. 262; p. 274.
- Cotton-chopper. R. Parham. No. 1,322,133; Nov. 18; v. 268; p. 448.
- Cotton chopper and cultivator, Combined. W. R. Maxville. No. 1,316,316; Sept. 16; v. 266; p. 361.
- Cotton chopping and thinning device. B. Nichols. No. 1,319,412; Oct. 21; v. 267; p. 421.
- Cotton-chopping machine. J. O. Thornhill. No. 1,305,840; June 3; v. 263; p. 115.
- Cotton-cleaner. M. Cabrera. No. 1,303,026; May 6; v. 262; p. 104.
- Cotton-cleaner. R. S. Munger. No. 1,311,907; Aug. 5; v. 265; p. 11.
- Cotton-cleaner. W. C. Reeves. No. 1,311,180; July 29; v. 264; p. 714.
- Cotton-cleaner. V. H. Talton. No. 1,292,918; Jan. 28; v. 258; p. 772.
- Cotton cleaning and extracting machine. E. J. Blackmon. No. 1,320,527; Nov. 4; v. 268; p. 32.
- Cotton-cleaning machine. A. Bruno and C. H. Stone. No. 1,303,160; May 6; v. 262; p. 130.
- Cotton-combers, Top-feed-roll holder for. F. L. Crockett. No. 1,292,717; Jan. 28; v. 258; p. 725.
- Cotton-compressor attachment. H. B. Irvin and P. M. Bonneau. No. 1,293,452; Feb. 4; v. 259; p. 111.
- Cotton-delinter. E. H. Young. No. 1,319,199; Oct. 21; v. 267; p. 381.
- Cotton-distributor. J. W. Davis. No. 1,316,282; Sept. 16; v. 266; p. 355.
- Cotton-gin. W. W. Conway. No. 1,325,485; Dec. 16; v. 269; p. 522.
- Cotton-gin condenser. M. J. Crocker. No. 1,320,379; Nov. 4; v. 268; p. 4.
- Cotton-gins, Mote-board for. J. L. Wooldridge. No. 1,308,651; July 1; v. 264; p. 118.
- Cotton-lint condenser and hue. C. W. Wicker. No. 1,312,291; Aug. 5; v. 265; p. 81.
- Cotton-picker. F. W. Hulse. No. 1,324,549; Dec. 9; v. 269; p. 296.
- Cotton-picker. C. F. Johnsen. No. 1,295,323; Feb. 25; v. 259; p. 634.
- Cotton-picker. F. E. Johnson. No. 1,300,276; Apr. 15; v. 261; p. 428.
- Cotton-picker. S. D. McEachern. No. 1,297,376; Mar. 18; v. 260; p. 414.
- Cotton-picker. A. A. Ross. No. 1,314,096; Aug. 26; v. 265; p. 508.
- Cotton-picker. A. J. Thrower. No. 1,312,010; Aug. 5; v. 265; p. 29.
- Cotton-picker sack. J. W. Watkins. No. 1,317,532; Sept. 30; v. 266; p. 675.
- Cotton-pickers, Weighing-stand for. P. J. Summers. No. 1,310,638; July 22; v. 264; p. 581.
- Cotton-picking device. J. H. C. Boig. No. 1,305,960; June 3; v. 263; p. 139.
- Cotton picking, ginning, condensing, and compressing machine, Portable combined. M. W. Silverthorne. No. 1,314,437; Aug. 26; v. 265; p. 574.
- Cotton-picking machine. J. B. Neil. No. 1,323,089; Nov. 25; v. 268; p. 680.
- Cotton-picking machines, Journal-bearing mechanism for picking-fingers in. B. C. Calderwood. No. 1,313,255; Aug. 19; v. 265; p. 316.
- Cotton-picking machines, Sack attachment for. B. E. Chaney. No. 1,321,715; Nov. 11; v. 268; p. 320.
- Cotton-picking sack. J. W. Watkins. No. 1,300,065; Apr. 8; v. 261; p. 355.
- Cotton-reel holder, Lock-down multiple. S. Price and S. Davis. No. 1,292,511; Jan. 28; v. 258; p. 675.
- Cotton-sack hanger. W. Hamrick. No. 1,310,947; July 22; v. 264; p. 637.
- Cotton-seed, Apparatus for treating. D. L. Adelsperger. No. 1,326,888; Dec. 30; v. 269; p. 848.
- Cotton-seed for milling, Preparation of. W. E. McCaw. No. 1,293,830; Feb. 11; v. 259; p. 230.
- Cotton-seed for separating meats from hulls, Treating. E. H. Ault. No. 1,306,991; June 17; v. 263; p. 393.
- Cotton-seed-hull fiber, Purifying. F. W. Stockton. No. 1,295,078; Feb. 18; v. 259; p. 555.
- Cotton-seed linter. F. E. Voorhies. No. 1,308,823; July 8; v. 264; p. 177.
- Cotton-seed, Treating. H. A. Fee and G. H. Aeveaenes. No. 1,304,670; May 27; v. 262; p. 515.
- Cotton separator and cleaner, Boll-. O. G. Simmons. No. 1,310,304; July 15; v. 264; p. 488.
- Cotton-topper and boll-weevil catcher. A. Marquis and W. Sprott. No. 1,325,406; Dec. 16; v. 269; p. 517.
- Cotton-trampers, Attachment for steam. W. E. Smith. No. 1,297,027; Mar. 11; v. 260; p. 310.
- Cotton-treating machine. J. L. Cassel. No. 1,291,763; Jan. 21; v. 258; p. 471.
- Couch-leg fastener. N. F. Spencer. No. 1,325,917; Dec. 23; v. 269; p. 629.
- Couch or divan. M. Lipps. No. 1,304,579; May 27; v. 262; p. 498.
- Counter. A. Bradley. No. 1,321,707; Nov. 11; v. 268; p. 318.
- Counter. C. E. Larrabee. No. 1,299,197; Apr. 1; v. 261; p. 132.
- Counter. M. J. Milmo. No. 1,315,738; Sept. 9; v. 266; p. 239.
- Counter and stacker, Automatic. F. Pfohl. No. 1,318,910; Oct. 14; v. 267; p. 300.
- Counter and stacker for transfers, tickets, and the like. R. E. Kimball. No. 1,317,979; Oct. 7; v. 267; p. 61.
- Counter attachment. W. E. Hosh. No. 1,312,693; Aug. 12; v. 265; p. 189.
- Counter-bracket. E. J. Walker, Jr. No. 1,295,647; Feb. 25; v. 259; p. 710.
- Counter, Change-. W. N. Dovener. No. 1,317,358; Sept. 30; v. 266; p. 642.
- Counter display case and cabinet. J. H. Hahn. No. 1,313,865; Aug. 19; v. 265; p. 430.
- Counter-shaft. F. Hardinge. No. 1,311,969; Aug. 5; v. 265; p. 22.
- Counter, Store-. J. A. Gustus. No. 1,320,138; Oct. 28; v. 267; p. 580.
- Counterbalance. C. G. Almquist. No. 1,312,665; Aug. 12; v. 265; p. 184.
- Counterbalancing-hook. B. C. Frazier. No. 1,313,807; Aug. 19; v. 265; p. 419.
- Counterbore. J. A. Germonprez. No. 1,294,257; Feb. 11; v. 259; p. 330.



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- Counterbore. C. D. Nethercutt. No. 1,299,856; Apr. 8; v. 261; p. 311.
- Counterbore. F. N. Simmonds. No. 1,308,304; July 1; v. 264; p. 55.
- Counterpoising mechanism. C. A. Henry. No. 1,309,198; July 8; v. 264; p. 247.
- Countersinking-machine. G. V. Curtis. No. 1,307,897; June 24; v. 263; p. 591.
- Counting-machines. Resetting mechanism for. C. F. Thompson. No. 1,312,008; Aug. 5; v. 265; p. 29.
- Counting or numbering device. T. Keefer. No. 1,323,290; Dec. 2; v. 269; p. 13.
- Coupling: *See*—
- Air-coupling.
  - Air-brake-hose coupling.
  - Automatic coupling.
  - Automobile-trailer coupling.
  - Bicycle-coupling.
  - Boiler-coupling.
  - Cable-coupling.
  - Cam-lever coupling.
  - Car-coupling.
  - Car and electric coupling.
  - Car and pipe coupling.
  - Chain-coupling.
  - Check-line coupling.
  - Conduit flexible coupling.
  - Differential coupling.
  - Elbow-coupling.
  - Fixture-coupling.
  - Flexible coupling.
  - Flexible pipe-coupling.
  - Flexible shaft-coupling.
  - Fluid-pressure coupling.
  - Grip-chain coupling.
  - Hose-coupling.
  - Hose-pipe coupling.
  - Impulse starting-coupling.
  - Inflating-coupling.
  - Leg-coupling.
  - Lightning-rod coupling.
  - Magneto-coupling.
  - Mining-car coupling.
  - Pipe-coupling.
  - Pump-coupling.
  - Release-coupling.
  - Release draft-coupling.
  - Reversible coupling.
  - Rod-coupling.
  - Rod or pipe coupling.
  - Rotary coupling.
  - Scythe-coupling.
  - Shaft-coupling.
  - Spark-advancing coupling.
  - Stovepipe-coupling.
  - Tractor-coupling.
  - Train-hose coupling.
  - Train-line coupling.
  - Train-pipe coupling.
  - Trolley-wire coupling.
  - Truck-coupling.
  - Tube-coupling.
  - Universal coupling.
  - Vehicle-coupling.
  - Wagon-coupling.
  - Wagon trailer-coupling.
- Coupling. F. Antonietti. No. 1,303,448; May 13; v. 262; p. 210.
- Coupling. G. D. Bailey and G. T. Rayfield. No. 1,316,011; Sept. 16; v. 266; p. 305.
- Coupling. C. W. Baker and F. F. Rorabeck. No. 1,325,826; Dec. 23; v. 269; p. 612.
- Coupling. C. H. Clark. No. 1,310,002; July 15; v. 264; p. 434.
- Coupling. J. Hirshstein. No. 1,304,979; May 27; v. 262; p. 572.
- Coupling. J. Hirshstein. No. 1,304,980; May 27; v. 262; p. 572.
- Coupling. R. E. L. Janney. No. 1,325,518; Dec. 23; v. 269; p. 555.
- Coupling. A. W. Judy. No. 1,302,806; May 6; v. 262; p. 61.
- Coupling. E. P. Kinne. No. 1,323,291; Dec. 2; v. 269; p. 13.
- Coupling. G. V. Lebew. No. 1,290,590; Jan. 7; v. 258; p. 139.
- Coupling. H. F. Leissner. No. 1,315,848; Sept. 9; v. 266; p. 260.
- Coupling. A. Novick. No. 1,325,902; Dec. 23; v. 269; p. 627.
- Coupling. O. F. Persson. No. 1,298,536; Mar. 25; v. 260; p. 691.
- Coupling. F. K. Pierce. No. 1,301,737; Apr. 22; v. 261; p. 764.
- Coupling. F. Stokes. No. 1,307,160; June 17; v. 263; p. 424.
- Coupling. T. White. No. 1,307,227; June 17; v. 263; p. 435.
- Coupling. L. Wolffgram. No. 1,300,541; Apr. 15; v. 261; p. 485.
- Coupling. H. W. Woodward. No. 1,307,427; June 24; v. 263; p. 506.
- Coupling-centering apparatus. C. D. Young. No. 1,322,744; Nov. 25; v. 268; p. 615.
- Coupling device. W. J. Brown. No. 1,295,686; Feb. 25; v. 259; p. 719.
- Coupling device. W. Scott. No. 1,312,584; Aug. 12; v. 265; p. 169.
- Coupling device. J. L. Villaamil. No. 1,306,934; June 17; v. 263; p. 383.
- Coupling ends on drill-tube sections. Forming. P. Boyd and A. M. Saunders. No. 1,325,073; Dec. 16; v. 269; p. 455.
- Coupling for drain-pipes of steam-heated drying-cylinders. O. W. Dodge. No. 1,310,391; July 15; v. 264; p. 504.
- Coupling for eccentric-shafts. Elastic. F. Billon. No. 1,316,673; Sept. 23; v. 266; p. 478.
- Coupling for gravity-carriers. Reversible. W. C. Kellogg. (Reissue.) No. 14,763; Dec. 2; v. 269; p. 150.
- Coupling mechanism. W. Barber. No. 1,324,777; Dec. 16; v. 269; p. 401.
- Coupling mechanism. T. E. Geiger. No. 1,321,519; Nov. 11; v. 268; p. 283.
- Coupling mechanism. P. Hansmann. No. 1,298,699; Apr. 1; v. 261; p. 18.
- Coupling-release rigging. C. W. Nicholas. No. 1,322,934; Nov. 25; v. 268; p. 650.
- Coupling-shank and yoke connection. E. H. Schmidt and C. K. Brooks. No. 1,291,182; Jan. 14; v. 258; p. 304.
- Coupling-support. W. Blackmore. No. 1,293,675; Feb. 11; v. 259; p. 193.
- Coupon-counting machine. B. M. Snapp. No. 1,311,849; July 29; v. 264; p. 838.
- Course and deviation finder. Automatic. R. M. Christensen. No. 1,311,641; July 29; v. 264; p. 800.
- Course-indicator. J. H. Lindberg. No. 1,292,337; Jan. 21; v. 258; p. 613.
- Course-indicator. K. Wheeler. No. 1,316,821; Sept. 23; v. 266; p. 505.
- Course-protractor. J. F. Cole. No. 1,313,520; Aug. 19; v. 265; p. 365.
- Cover. R. P. Clark. No. 1,299,127; Apr. 1; v. 261; p. 116.
- Cover. A. Dreier. No. 1,298,678; Apr. 1; v. 261; p. 12.
- Cover and detachable fastener therefor. Reversible. J. W. McCann. No. 1,318,094; Oct. 7; v. 267; p. 82.
- Cover, Expandable. L. Bach, F. Roeger, and E. Kuebler. No. 1,322,863; Nov. 25; v. 268; p. 637.
- Cover-fastener. N. S. Peckens. No. 1,323,488; Dec. 2; v. 269; p. 50.
- Cover-fastener. A. V. Roe. No. 1,301,749; Apr. 22; v. 261; p. 766.
- Cover-fastener. I. M. Shackle. No. 1,308,962; July 8; v. 264; p. 203.
- Cover for containers of various types. Display. M. Block. No. 1,316,264; Sept. 16; v. 266; p. 352.
- Cover for pitchers, pots, jugs, &c. F. W. Seubel. No. 1,295,616; Feb. 25; v. 259; p. 703.
- Cover for vibrator attachments. Sanitary. G. A. Veomett. No. 1,291,290; Jan. 14; v. 258; p. 329.
- Cover-holder. A. J. Holdsworth. No. 1,299,832; Apr. 8; v. 261; p. 306.
- Cover-lock. C. D. Ainsworth. No. 1,321,582; Nov. 11; v. 268; p. 295.
- Cover-lock. J. A. Schneider. No. 1,319,970; Oct. 28; v. 267; p. 550.
- Cover-operating means. R. Valent. No. 1,291,284; Jan. 14; v. 258; p. 327.
- Cover-operating mechanism. C. Cretors. No. 1,309,565; July 8; v. 264; p. 316.
- Cover or lid for cooking-pots, saucepans, and other similar utensils. G. Dautel. No. 1,310,981; July 22; v. 264; p. 644.
- Cover plates. Making. T. C. Prouty. No. 1,297,010; Mar. 11; v. 260; p. 306.
- Cover, Quick-detachable shipping-case. H. P. Sweet. No. 1,316,518; Sept. 23; v. 266; p. 504.
- Cover-slide and edge-guide. Combined. A. H. De Voe. No. 1,323,355; Dec. 2; v. 269; p. 25.
- Cover, Slip. F. C. Brock. No. 1,303,021; May 6; v. 262; p. 103.
- Cover-support. B. B. Blood. No. 1,296,260; Mar. 4; v. 260; p. 101.
- Cover-support. H. W. Sattler. No. 1,300,027; Apr. 8; v. 261; p. 347.
- Cover, Tight-joint. J. H. Nichols. No. 1,316,969; Sept. 23; v. 266; p. 532.
- Cover, top, awning, &c., Folding. D. E. Bonner. No. 1,308,392; July 1; v. 264; p. 71.
- Cover, Vehicle-seat. J. E. Herman. No. 1,317,369; Sept. 30; v. 266; p. 644.
- Covers or members. Support for hinged. F. E. Levanseler. No. 1,324,600; Dec. 9; v. 269; p. 306.
- Covers or members. Support for hinged. F. E. Levanseler. No. 1,324,601; Dec. 9; v. 269; p. 306.
- Covered box. H. B. Smith. No. 1,302,236; Apr. 29; v. 261; p. 889.
- Covering. W. Achtmeyer. No. 1,303,224; May 13; v. 262; p. 171.
- Covering and incasing articles. B. D. Baker. No. 1,300,550; Apr. 15; v. 261; p. 487.
- Covering. Floor, wall, or like. F. W. Moore. No. 1,304,083; May 20; v. 262; p. 364.
- Cow-tail holder. A. F. Block. No. 1,296,258; Mar. 4; v. 260; p. 101.
- Cow-tail holder. F. A. Kruse. No. 1,298,061; Mar. 25; v. 260; p. 584.
- Cows in calving. Device to assist. C. Spruyt. No. 1,326,800; Dec. 30; v. 269; p. 832.
- Cowl or top. Chimney. W. J. Calder. No. 1,310,470; July 22; v. 264; p. 549.
- Cowl, Ventilator. P. R. Jordan. No. 1,325,947; Dec. 23; v. 269; p. 634.
- Cracker-cutting machines. Pan-skip device for. D. K. Allison. No. 1,292,985; Feb. 4; v. 259; p. 3.
- Cracker-cutting machines. Pan-skipping device for. D. K. Allison. No. 1,323,667; Dec. 2; v. 269; p. 83.
- Cracker-cutting machines. Pan-skipping device for. D. K. Allison. No. 1,323,668; Dec. 2; v. 269; p. 83.
- Craft, Aerial and marine. S. H. Lynn. No. 1,303,695; May 13; v. 262; p. 255.
- Craft, Hull of water-. F. J. Thuman. No. 1,312,369; Aug. 5; v. 265; p. 96.
- Craft, Marine. J. S. Stockman. No. 1,310,809; July 22; v. 264; p. 613.
- Craft navigating fluid mediums. Method and means for propelling. L. Rostedo. No. 1,305,340; June 3; v. 263; p. 21.

- Craft of reinforced concrete, Floating. N. K. Fougner. No. 1,303,647; May 13; v. 262; p. 246.
- Craft, Sailing-. I. Henderson. No. 1,303,839; May 13; v. 262; p. 282.
- Craft, Steel-concrete. A. Bonde and T. Norman. No. 1,325,228; Dec. 16; v. 269; p. 484.
- Cranberry-picker. E. F. Bassett. No. 1,309,009; July 8; v. 264; p. 213.
- Cranberry-picking machine. A. J. Coon. No. 1,315,095; Sept. 2; v. 266; p. 114.
- Cranberry-picking machine. O. Tervo. No. 1,323,928; Dec. 2; v. 269; p. 133.
- Crane. S. Buckley. No. 1,296,755; Mar. 11; v. 260; p. 248.
- Crane. E. J. McHarg. No. 1,326,076; Dec. 23; v. 269; p. 659.
- Crane. H. N. Nelson. No. 1,316,589; Sept. 23; v. 266; p. 462.
- Crane. T. M. Nichols. No. 1,307,412; June 24; v. 263; p. 503.
- Crane bridge, Traveling-. S. Buckley. No. 1,296,757; Mar. 11; v. 260; p. 249.
- Crane bridge, Traveling-. S. Buckley. No. 1,296,758; Mar. 11; v. 260; p. 249.
- Crane bridge, Traveling-. S. Buckley. No. 1,296,759; Mar. 11; v. 260; p. 249.
- Crane lifting-beam. S. Buckley. No. 1,296,756; Mar. 11; v. 260; p. 248.
- Crane or other raising and lowering machinery, Electrically-operated. E. M. Holme. No. 1,326,732; Dec. 30; v. 269; p. 819.
- Crane safety device. R. H. Scheibert. No. 1,304,381; May 20; v. 262; p. 421.
- Crane, Transporter weighting-. T. S. B. Parnall and F. G. Mitchell. No. 1,310,540; July 22; v. 264; p. 562.
- Crane, Traveling. W. A. Young. No. 1,309,504; July 8; v. 264; p. 304.
- Crane, Warehouse-. G. H. Hulett. No. 1,305,802; June 3; v. 263; p. 108.
- Cranes, Safety appliance for. A. Heisler. No. 1,315,495; Sept. 9; v. 266; p. 197.
- Crank. S. F. Bates. No. 1,322,519; Nov. 25; v. 268; p. 573.
- Crank and attachment therefor. H. L. Scholl. No. 1,323,106; Nov. 25; v. 268; p. 683.
- Crank-case and fly-wheel structure. R. F. Roehl. No. 1,322,266; Nov. 18; v. 268; p. 474.
- Crank-case-reinforcing means. F. E. Burnette. No. 1,326,844; Dec. 30; v. 269; p. 840.
- Crank-holder. U. Herman. No. 1,325,564; Dec. 23; v. 269; p. 564.
- Crank lock, Starting-. G. W. Hershey. No. 1,313,485; Aug. 19; v. 265; p. 358.
- Crank-pin-turning machine. A. B. Lang. No. 1,314,876; Sept. 2; v. 266; p. 74.
- Crank, Safety-. B. T. Farley. No. 1,308,701; July 1; v. 264; p. 127.
- Crank, Safety-. L. W. Woolwine. No. 1,295,408; Feb. 25; v. 259; p. 654.
- Crank-shaft. R. A. Weinhardt. No. 1,303,000; May 6; v. 262; p. 100.
- Crank-shaft, Balanced. J. G. Vincent. No. 1,315,059; Sept. 2; v. 266; p. 107.
- Crank-shaft construction. L. C. Kenen. No. 1,322,579; Nov. 25; v. 268; p. 585.
- Crank-shaft, Counterbalanced. R. E. Bates. No. 1,314,497; Sept. 2; v. 266; p. 4.
- Crank-shaft support. I. M. Jacobs and W. Cramer. No. 1,299,950; Apr. 8; v. 261; p. 331.
- Crank-shafts and apparatus for same, Balancing. C. C. Hinkley. No. 1,321,308; Nov. 11; v. 268; p. 243.
- Crank-shafts and pitmen, Bearing-adjusting machine for engine. F. P. Schramm. No. 1,319,623; Oct. 21; v. 267; p. 461.
- Crank, Slip-. W. F. Mangels. No. 1,306,603; June 10; v. 263; p. 289.
- Cranking device. I. F. Harris. No. 1,307,400; June 24; v. 263; p. 501.
- Crate. F. F. Benson. No. 1,292,419; Jan. 28; v. 258; p. 652.
- Crate. J. R. Buechler. No. 1,307,434; June 24; v. 263; p. 507.
- Crate. L. L. Eby. No. 1,317,438; Sept. 30; v. 266; p. 637.
- Crate. J. D. Finnegan. No. 1,295,723; Feb. 25; v. 259; p. 727.
- Crate. A. H. Morton. No. 1,319,410; Oct. 21; v. 267; p. 421.
- Crate. F. A. Walker. No. 1,315,061; Sept. 2; v. 266; p. 108.
- Crate, Collapsible. E. D. Harris, Jr. No. 1,297,564; Mar. 18; v. 260; p. 453.
- Crate, Collapsible egg-. P. Eyler. No. 1,314,862; Sept. 2; v. 266; p. 71.
- Crate, Collapsible poultry-. F. Walther. No. 1,303,746; May 13; v. 262; p. 264.
- Crate, Container-. H. T. Fogg. No. 1,303,873; May 20; v. 262; p. 326.
- Crate, Egg-. W. E. Fisher. No. 1,301,826; Apr. 29; v. 261; p. 811.
- Crate, Foldable. H. Harsh. No. 1,325,323; Dec. 16; v. 269; p. 502.
- Crate, Foldable. G. W. Ritchie. No. 1,308,682; July 1; v. 264; p. 124.
- Crate, Folding. E. T. Bond. No. 1,318,532; Oct. 14; v. 267; p. 228.
- Crate, Folding. E. P. and J. L. Carpenter. No. 1,306,136; June 10; v. 263; p. 200.
- Crate, Folding. A. Hirlinger. No. 1,306,338; June 10; v. 263; p. 241.
- Crate, Folding. E. B. Johnston. No. 1,324,313; Dec. 9; v. 269; p. 250.
- Crate, Folding chicken-. F. J. Gerrard. No. 1,299,322; Apr. 1; v. 261; p. 161.
- Crate for cotton, Shipping-. H. B. Irvin. No. 1,293,451; Feb. 4; v. 259; p. 111.
- Crate, Hog-ringing. E. Downing. No. 1,301,408; Apr. 22; v. 261; p. 701.
- Crate, Knockdown banana-. J. Limoncelle. No. 1,304,994; May 27; v. 262; p. 575.
- Crate, Knockdown collapsible shipping-. H. Opgenorth. No. 1,324,168; Dec. 9; v. 269; p. 222.
- Crate, Metallic egg and chicken-. J. Voegtlin. No. 1,297,756; Mar. 18; v. 260; p. 496.
- Crate-opener. T. A. Rhodes. No. 1,312,873; Aug. 12; v. 265; p. 224.
- Crate or box, Foldable. A. W. Adix and G. W. Haglund. No. 1,315,175; Sept. 2; v. 266; p. 128.
- Crate or container, Bottle. E. F. Wiederholdt. No. 1,317,845; Oct. 7; v. 267; p. 36.
- Crate, Packing-. A. W. Koors. No. 1,310,352; July 15; v. 264; p. 496.
- Crate, Shipping-. T. L. Bowers. No. 1,309,932; July 15; v. 264; p. 421.
- Crate, Shipping-. W. C. Kelso. No. 1,323,534; Dec. 2; v. 269; p. 59.
- Cravat. L. Koskie. No. 1,306,432; June 10; v. 263; p. 258.
- Cravat and bow, Adjustable and interchangeable. N. J. Busby, Sr. No. 1,308,731; July 1; v. 264; p. 133.
- Cream and egg whipper. E. C. Brull. No. 1,322,874; Nov. 25; v. 268; p. 639.
- Cream-cooler. T. E. Hooker. No. 1,308,357; July 1; v. 264; p. 64.
- Cream-extractor. J. E. Carlson. No. 1,308,928; July 8; v. 264; p. 197.
- Cream-separator. G. W. Johansson. No. 1,296,399; Mar. 4; v. 260; p. 132.
- Cream-separator. O. Krenke. No. 1,298,058; Mar. 25; v. 260; p. 584.
- Cream-separator. J. Stampen. No. 1,326,376; Dec. 30; v. 269; p. 751.
- Cream-separator bowl. C. O. Anderson. No. 1,322,745; Nov. 25; v. 268; p. 615.
- Cream-separator gearing. J. Stampen. No. 1,301,756; Apr. 22; v. 261; p. 767.
- Cream-separator strainer. J. Anderson. No. 1,293,297; Feb. 4; v. 259; p. 76.
- Cream-separator with hanging bowl. F. Mortensen. No. 1,316,849; Sept. 23; v. 266; p. 510.
- Cream-separators, Automatic feeding device for. C. V. Carlson. No. 1,301,818; Apr. 29; v. 261; p. 810.
- Cream-whip. B. F. Fowler. No. 1,310,861; July 22; v. 264; p. 622.
- Crease-preserver. T. J. Kister. No. 1,299,960; Apr. 8; v. 261; p. 333.
- Credit-slip-authorizing apparatus. H. G. Dorsey and A. C. Kirshner. No. 1,321,900; Nov. 18; v. 268; p. 405.
- Creel, Roving-. F. Wood. No. 1,324,710; Dec. 9; v. 269; p. 326.
- Creeper attachment. A. M. Mochulsky. No. 1,302,198; Apr. 29; v. 261; p. 881.
- Crib. A. F. Bent. No. 1,293,001; Feb. 4; v. 259; p. 7.
- Crib. J. Rimmer. No. 1,317,177; Sept. 30; v. 266; p. 608.
- Crib, Baby-. N. P. Svendsen. No. 1,311,782; July 29; v. 264; p. 826.
- Crib, Folding baby-. S. Takacs. No. 1,296,569; Mar. 4; v. 260; p. 168.
- Crib, Infant's. R. C. Lafferty. No. 1,290,585; Jan. 7; v. 258; p. 137.
- Crib or bed, Adjustable. F. S. Rece. No. 1,322,616; Nov. 25; v. 268; p. 592.
- Crib, Portable. J. Gannon. No. 1,321,905; Nov. 18; v. 268; p. 406.
- Crib, Swinging baby-. P. H. Giessow. No. 1,315,549; Sept. 9; v. 266; p. 206.
- Cribs, cradles, &c., Corner-joint for. W. P. Shuffleton. No. 1,325,335; Dec. 16; v. 269; p. 504.
- Cribs, Ventilating means for corn-. E. M. Buechele. No. 1,306,401; June 10; v. 263; p. 252.
- Cribbing. P. Kirchner. No. 1,312,331; Aug. 5; v. 265; p. 88.
- Crimping-tool. W. F. Stone. No. 1,305,752; June 3; v. 263; p. 98.
- Crochet-frame. A. L. Hansen. No. 1,317,367; Sept. 30; v. 266; p. 643.
- Crock or jar, Stone. I. M. Hettinger. No. 1,324,896; Dec. 16; v. 269; p. 422.
- Crop cap or cover. H. Ireland. No. 1,321,747; Nov. 11; v. 268; p. 326.
- Croquet and the like, Wicket or arch for playing. S. N. Stewart. No. 1,299,055; Apr. 1; v. 261; p. 101.



## Alphabetical list of inventions—Continued.

- Cross-bar line-switch. F. A. Lundquist. No. 1,303,084; May 6; v. 262; p. 115.
- Cross-roller bit. H. R. Hughes. No. 1,320,394; Nov. 4; v. 268; p. 7.
- Cross-tie and rail-clamp therefor. G. E. Frey. No. 1,322,781; Nov. 25; v. 268; p. 622.
- Crosshead. W. F. Kiesel, Jr. No. 1,315,513; Sept. 9; v. 266; p. 200.
- Crosshead-pin. W. L. Leonard and J. E. Myers. No. 1,321,111; Nov. 11; v. 268; p. 205.
- Crossing-gate. V. B. Taylor. No. 1,306,033; June 10; v. 263; p. 181.
- Crossing-signal. R. G. Flexon. No. 1,297,339; Mar. 18; v. 260; p. 406.
- Crown-cork-making machines. Feeding attachment for. W. Jackson. No. 1,313,990; Aug. 26; v. 265; p. 488.
- Crucible. F. G. Keyes. No. 1,318,452; Oct. 14; v. 267; p. 212.
- Crusher. *See*—  
     Clod-crusher.                      Rock-crusher.  
     Double-roll crusher.              Roll-crusher.  
     Jaw-crusher.                      Stone-crusher.
- Crusher. O. J. Williams. No. 1,322,211; Nov. 18; v. 268; p. 463.
- Crusher and pulverizer, Combined. W. K. Liggett. No. 1,321,380; Nov. 11; v. 268; p. 257.
- Crushing and cracking machine. G. J. Lugt. No. 1,321,652; Nov. 11; v. 268; p. 307.
- Crushing-machine. E. L. Sanborn. No. 1,309,104; July 8; v. 264; p. 231.
- Crutch. J. B. Bemis. No. 1,322,084; Nov. 18; v. 268; p. 439.
- Crutch. H. L. Herrold. No. 1,304,978; May 27; v. 262; p. 572.
- Crutch. G. Hipwood. No. 1,298,713; Apr. 1; v. 261; p. 22.
- Crutch. G. Hipwood. No. 1,314,193; Aug. 26; v. 265; p. 526.
- Crutch. H. N. Laplant. No. 1,322,800; Nov. 25; v. 268; p. 626.
- Crutch. E. Pearl. No. 1,311,664; July 29; v. 264; p. 804.
- Crutch. E. Pearl. No. 1,317,386; Sept. 30; v. 266; p. 647.
- Crutch. K. J. Rabczynski. No. 1,318,505; Oct. 14; v. 267; p. 223.
- Crutch. Adjustable. K. B. Yates. No. 1,296,728; Mar. 11; v. 260; p. 241.
- Crutch and cushion-tip therefor. M. Bruyere. No. 1,319,564; Oct. 21; v. 267; p. 450.
- Crutch arm-rest attachment. G. Hipwood. No. 1,298,211; Mar. 25; v. 260; p. 617.
- Crutch arm-rest attachment. G. Hipwood. No. 1,298,714; Apr. 1; v. 261; p. 22.
- Crutch-handle. A. Plouffe. No. 1,303,721; May 13; v. 262; p. 260.
- Crutch, Invalid-. C. O. Michel. No. 1,292,503; Jan. 28; v. 258; p. 673.
- Crutch-tip. M. Atlas. No. 1,305,867; June 3; v. 263; p. 120.
- Crutch, walking-stick, and the like. G. J. Hughes. No. 1,298,721; Apr. 1; v. 261; p. 23.
- Crutches and canes. Antislipping attachment for. A. Lansky, Jr. No. 1,314,000; Aug. 26; v. 265; p. 490.
- Crystal or glass objects, Machine for drawing colored lines on. M. Mathy. No. 1,298,753; Apr. 1; v. 261; p. 31.
- Cubing-machine. W. M. Luther. No. 1,297,373; Mar. 18; v. 260; p. 413.
- Cue. G. Bey. No. 1,324,789; Dec. 16; v. 269; p. 403.
- Cue-tip. J. G. Mikula. No. 1,314,347; Aug. 26; v. 265; p. 556.
- Cue-tip. J. Nelson and A. Scheiwer. No. 1,312,198; Aug. 5; v. 265; p. 65.
- Cue-tip. C. A. Segur and W. Burnip. No. 1,304,389; May 20; v. 262; p. 422.
- Cue tip and ferrule. A. O. Olafson. No. 1,307,922; June 24; v. 263; p. 596.
- Cue-tip holder. E. E. Fournier. No. 1,322,684; Nov. 25; v. 268; p. 604.
- Cue-tips. Device for resurfacing. T. Trelber. No. 1,297,041; Mar. 11; v. 260; p. 313.
- Cuff. R. Brussel. No. 1,297,538; Mar. 18; v. 260; p. 447.
- Cuff. S. Burk. No. 1,303,254; May 13; v. 262; p. 176.
- Cuff. G. W. Cooper. No. 1,305,067; May 27; v. 262; p. 589.
- Cuff. E. B. Stackpole. No. 1,300,038; Apr. 8; v. 261; p. 350.
- Cuff, Adjustable. F. N. Price. No. 1,315,036; Sept. 2; v. 266; p. 103.
- Cuff and producing same. Gauntlet-. F. R. Evans. No. 1,295,720; Feb. 25; v. 259; p. 727.
- Cuff, Detachable. W. M. Ladd. No. 1,326,514; Dec. 30; v. 269; p. 778.
- Cuff, Detachable. C. W. Twite. No. 1,291,272; Jan. 14; v. 258; p. 324.
- Cuff, Detachable reversible. R. L. Heeren. No. 1,314,326; Aug. 26; v. 265; p. 552.
- Cuff, Double. A. Fisher. No. 1,305,889; June 3; v. 263; p. 125.
- Cuff, Garment-. J. A. Akin. No. 1,296,733; Mar. 11; v. 260; p. 242.
- Cuff-holder. M. A. Froney. No. 1,302,356; Apr. 29; v. 261; p. 912.
- Cuff-link. G. P. Cragin. No. 1,295,440; Feb. 25; v. 259; p. 662.
- Cuff-link. M. Kohn. No. 1,291,555; Jan. 14; v. 258; p. 390.
- Cuff-link, Separable. F. S. Carr. No. 1,317,267; Sept. 30; v. 266; p. 624.
- Cuff or collar and shirt, Separable. D. S. Daily. No. 1,319,851; Oct. 28; v. 267; p. 528.
- Cuff, Reversible. A. E. C. Clothier. No. 1,312,100; Aug. 5; v. 265; p. 47.
- Cuff, Reversible. J. D. C. Forsyth. No. 1,290,956; Jan. 14; v. 258; p. 253.
- Cuff, Reversible. L. G. Milkes. No. 1,309,043; July 8; v. 264; p. 219.
- Cuff, Reversible. F. Standish. No. 1,307,934; June 24; v. 263; p. 598.
- Cuff, Shirt-. C. M. Sussman. (Reissue.) No. 14,591; Feb. 11; v. 259; p. 356.
- Cuffs automatically, Method and means for making. O. A. Wheeler. No. 1,305,510; June 3; v. 263; p. 53.
- Culinary article. E. Luna. No. 1,303,083; May 6; v. 262; p. 115.
- Culinary device. E. H. Burmeister. No. 1,326,570; Dec. 30; v. 269; p. 789.
- Culinary device. A. E. Cowan. No. 1,312,616; Aug. 12; v. 265; p. 175.
- Culinary device. B. D. McLeod. No. 1,317,027; Sept. 23; v. 266; p. 543.
- Culinary utensil. J. Bean. No. 1,293,303; Feb. 4; v. 259; p. 77.
- Culinary utensil. A. Cohn and L. H. Debs. No. 1,308,482; July 1; v. 264; p. 86.
- Culinary utensil. G. L. Harrison. No. 1,310,015; July 15; v. 264; p. 436.
- Culinary utensil. G. W. Parkman. No. 1,311,178; July 29; v. 264; p. 714.
- Culinary utensil. F. W. Tully. No. 1,301,197; Apr. 22; v. 261; p. 659.
- Culinary vessel. R. E. Bebb. No. 1,317,066; Sept. 23; v. 266; p. 550.
- Culinary vessel. G. L. Harrison. No. 1,298,940; Apr. 1; v. 261; p. 74.
- Culinary vessel. S. A. Mikalson. No. 1,321,768; Nov. 11; v. 268; p. 330.
- Cultivating implement. F. D. Tellin. No. 1,309,228; July 8; v. 264; p. 253.
- Cultivator. S. L. Allen. No. 1,304,926; May 27; v. 262; p. 562.
- Cultivator. S. R. Anderson. No. 1,295,253; Feb. 25; v. 259; p. 619.
- Cultivator. J. F. Ashley. No. 1,313,242; Aug. 19; v. 265; p. 313.
- Cultivator. H. W. Campbell. No. 1,299,676; Apr. 8; v. 261; p. 270.
- Cultivator. J. A. Cowan. No. 1,302,317; Apr. 29; v. 261; p. 904.
- Cultivator. R. H. Cowdery. No. 1,316,878; Sept. 23; v. 266; p. 515.
- Cultivator. G. A. Currier. No. 1,291,772; Jan. 21; v. 258; p. 473.
- Cultivator. C. W. Fish. No. 1,325,149; Dec. 16; v. 269; p. 470.
- Cultivator. W. H. Frashier. No. 1,300,596; Apr. 15; v. 261; p. 495.
- Cultivator. W. T. Goodman. No. 1,295,731; Feb. 25; v. 259; p. 729.
- Cultivator. R. W. Goodrich. No. 1,294,086; Feb. 11; v. 259; p. 290.
- Cultivator. F. E. Greathouse. No. 1,301,557; Apr. 22; v. 261; p. 728.
- Cultivator. R. W. E. Hayes. No. 1,293,769; Feb. 11; v. 259; p. 215.
- Cultivator. A. Holsey. No. 1,319,474; Oct. 21; v. 267; p. 433.
- Cultivator. G. W. Kendall. No. 1,322,455; Nov. 18; v. 268; p. 510.
- Cultivator. K. Klaus. No. 1,326,065; Dec. 23; v. 269; p. 657.
- Cultivator. O. E. Kubenka and A. W. Janszen. No. 1,320,068; Oct. 28; v. 267; p. 568.
- Cultivator. F. Matoushek. No. 1,300,442; Apr. 15; v. 261; p. 463.
- Cultivator. M. H. McMorran. No. 1,293,146; Feb. 4; v. 259; p. 40.
- Cultivator. O. Mueller. No. 1,312,418; Aug. 5; v. 265; p. 106.
- Cultivator. W. A. Paul. No. 1,318,582; Oct. 14; v. 267; p. 237.
- Cultivator. W. A. Paul. No. 1,318,583; Oct. 14; v. 267; p. 238.
- Cultivator. W. H. Phillips. No. 1,300,767; Apr. 15; v. 261; p. 532.
- Cultivator. C. T. Ray. No. 1,304,512; May 20; v. 262; p. 447.
- Cultivator. W. M. Reynolds. No. 1,316,325; Sept. 16; v. 266; p. 363.
- Cultivator. E. C. Smith. No. 1,310,583; July 22; v. 264; p. 570.
- Cultivator. D. W. Strickland. No. 1,310,095; July 15; v. 264; p. 450.

- Cultivator. H. C. Tate. No. 1,305,502; June 3; v. 263; p. 51.
- Cultivator. S. P. Taylor. No. 1,317,764; Oct. 7; v. 267; p. 20.
- Cultivator. S. L. Timmons. No. 1,299,064; Apr. 1; v. 261; p. 103.
- Cultivator. L. E. Waterman. No. 1,294,580; Feb. 18; v. 259; p. 440.
- Cultivator. U. Wedge. No. 1,317,533; Sept. 30; v. 266; p. 675.
- Cultivator. T. E. West. No. 1,298,841; Apr. 1; v. 261; p. 52.
- Cultivator, Alfalfa-. C. E. White. No. 1,290,446; Jan. 7; v. 258; p. 104.
- Cultivator attachment. J. W. Capps. No. 1,293,329; Feb. 4; v. 259; p. 83.
- Cultivator attachment. J. E. Franklin. No. 1,301,116; Apr. 22; v. 261; p. 642.
- Cultivator attachment. P. Gorton. No. 1,301,555; Apr. 22; v. 261; p. 728.
- Cultivator attachment. W. R. Stanfield. No. 1,320,507; Nov. 4; v. 268; p. 28.
- Cultivator attachment. E. Stewart. No. 1,301,520; Apr. 22; v. 261; p. 722.
- Cultivator attachment. A. J. Tower. No. 1,304,631; May 27; v. 262; p. 508.
- Cultivator attachment. C. Van Gemert. No. 1,303,810; May 13; v. 262; p. 276.
- Cultivator-clevis. J. Cramer. No. 1,303,034; May 6; v. 262; p. 106.
- Cultivator-disks. Support for. W. L. Ballard. No. 1,296,452; Mar. 4; v. 260; p. 142.
- Cultivator-fender. J. Hemje. No. 1,325,471; Dec. 16; v. 269; p. 528.
- Cultivator, Garden-. J. G. Alexander. No. 1,309,831; July 15; v. 264; p. 402.
- Cultivator, Listed. C. W. Michael. No. 1,298,760; Apr. 1; v. 261; p. 33.
- Cultivator, Orchard-. F. F. Pratt, F. H. Farmer, and J. Kemp. No. 1,316,183; Sept. 16; v. 266; p. 336.
- Cultivator, Planting attachment. R. A. Hines. No. 1,306,900; June 17; v. 263; p. 376.
- Cultivator, Riding-. I. B. Casey. No. 1,294,769; Feb. 18; v. 259; p. 485.
- Cultivator riding attachment. O. D. Bendure. No. 1,303,533; May 13; v. 262; p. 226.
- Cultivator, Rotary. S. D. and H. G. Irwin. No. 1,322,447; Nov. 18; v. 268; p. 508.
- Cultivator, Self-propelling. L. Jacobs. No. 1,322,306; Nov. 18; v. 268; p. 481.
- Cultivator, Walking-. G. Smith. No. 1,305,674; June 3; v. 263; p. 84.
- Cultivator, Wheel-. J. L. Van Nort. No. 1,307,327; June 17; v. 263; p. 454.
- Cultivator, Wheel-. H. Wardlow. No. 1,299,073; Apr. 1; v. 261; p. 105.
- Cultivator, Wheeled. P. C. Miller. No. 1,315,567; Sept. 9; v. 266; p. 209.
- Cultivators, Attachment for. R. N. Hall. No. 1,318,144; Oct. 7; v. 267; p. 92.
- Cultivators, Auxiliary attachment for riding-. H. Dickinson. No. 1,323,029; Nov. 25; v. 268; p. 669.
- Cultivators, Crust-breaking attachment for. T. Ono. No. 1,310,924; July 22; v. 264; p. 633.
- Cultivators, Hand-lever mechanism for. C. C. Lederer. No. 1,304,783; May 27; v. 262; p. 536.
- Cultivators, Insecticide-distributor for. M. L. Fox. No. 1,312,969; Aug. 12; v. 265; p. 244.
- Cultivators, Weed-cutting attachment for. T. Erickson. No. 1,319,382; Oct. 21; v. 267; p. 415.
- Culvert. M. R. Deyo. No. 1,298,021; Mar. 25; v. 260; p. 577.
- Culvert-block. Interlocking. F. S. Wendelken. No. 1,301,024; Apr. 15; v. 261; p. 587.
- Culvert construction. L. W. Benz. No. 1,313,667; Aug. 19; v. 265; p. 392.
- Cumarin and indene oxidation product. K. Schlatter. No. 1,294,836; Feb. 18; v. 259; p. 500.
- Cup. See—
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|------------------|--------------------------|
| Drinking-cup.    | Oil-cup.                 |
| Egg-cup.         | Paper cup.               |
| Elevator-cup.    | Paper and similar cup.   |
| Goggle eye-cup.  | Priming-cup.             |
| Golf-cup.        | Priming and testing cup. |
| Grease-cup.      | Shaving-cup.             |
| Lubricating-cup. | Suction-cup.             |
- Cup. J. W. Carrico. No. 1,324,305; Dec. 9; v. 269; p. 248.
- Cup-dispenser. H. Elsas. No. 1,318,317; Oct. 7; v. 267; p. 126.
- Cup-dispensing apparatus. E. G. Wessman. No. 1,303,433; May 13; v. 262; p. 207.
- Cup-filling device. J. D. McCabe. No. 1,296,300; Mar. 4; v. 260; p. 110.
- Cup, Folding-handle drinking-. A. W. Wellington. No. 1,316,402; Sept. 16; v. 266; p. 377.
- Cups, &c., Coupling device for grease-. C. E. Quintin. No. 1,304,601; May 27; v. 262; p. 502.
- Cupola. G. F. Sexauer. No. 1,326,792; Dec. 30; v. 269; p. 831.
- Cupola-charging device. J. W. Hartley. No. 1,322,169; Nov. 18; v. 268; p. 455.
- Cupola variable twyer. A. H. McDougall. No. 1,320,158; Oct. 28; v. 267; p. 584.
- Curb-bar. E. L. Benedict. No. 1,311,485; July 29; v. 264; p. 771.
- Curling-iron. P. M. Beard. No. 1,293,304; Feb. 4; v. 259; p. 77.
- Curling-iron and water-bottle heater, Combined. H. W. Christian. No. 1,292,402; Jan. 21; v. 258; p. 627.
- Current and low-voltage circuit-breaker, Reverse-. A. E. Weaver. No. 1,293,587; Feb. 4; v. 259; p. 142.
- Current-collecting device. C. Aalborg. No. 1,318,713; Oct. 14; v. 267; p. 262.
- Current-controlling regulators, Contact member for vibrating. V. G. Apple and J. G. King. No. 1,302,622; May 6; v. 262; p. 27.
- Current-detector. C. W. Eisenmann. No. 1,292,279; Jan. 21; v. 258; p. 599.
- Current determinator and indicator. M. H. Shoenberg and F. Talcott. No. 1,291,197; Jan. 14; v. 258; p. 307.
- Current-distributor blocks, Means for mounting. S. C. McKeown. No. 1,292,836; Jan. 28; v. 258; p. 752.
- Current-distributing system, Alternating-. J. C. Parker. No. 1,314,895; Sept. 2; v. 266; p. 78.
- Current-flow at high potential, Method of and means for switching. N. J. Conrad. No. 1,294,621; Feb. 18; v. 259; p. 450.
- Current-indicator. A. F. Berry. No. 1,305,514; June 3; v. 263; p. 54.
- Current-interrupter. B. K. Read. No. 1,292,644; Jan. 28; v. 258; p. 708.
- Current interrupter, Electric-. M. B. Rodriguez. No. 1,304,376; May 20; v. 262; p. 420.
- Current-interrupter for electric ignition devices of internal-combustion motors. A. Krauss. No. 1,320,871; Nov. 4; v. 268; p. 96.
- Current-limiter. K. Pettersen. No. 1,296,314; Mar. 4; v. 260; p. 113.
- Current machines, Connections for securing stability for the parallel operation of two direct-. H. A. W. Klinkhamer. No. 1,317,877; Oct. 7; v. 267; p. 41.
- Current, Method of and means for varying the frequency of an oscillating. P. C. Hewitt. No. 1,321,436; Nov. 11; v. 268; p. 268.
- Current-motor. W. R. Bailey. No. 1,317,538; Sept. 30; v. 266; p. 676.
- Current-motor. N. W. Bowman. No. 1,313,457; Aug. 19; v. 265; p. 353.
- Current-motor. W. H. Cook. No. 1,292,389; Jan. 21; v. 258; p. 624.
- Current-motor. A. L. Munn. No. 1,326,769; Dec. 30; v. 269; p. 826.
- Current-motor. E. Spurgeon. No. 1,290,391; Jan. 7; v. 258; p. 90.
- Current-motor. C. R. Wyborne. No. 1,315,587; Sept. 9; v. 266; p. 213.
- Current motor, Alternating-. J. Burke. No. 1,296,620; Mar. 11; v. 260; p. 216.
- Current rectifier, Alternating-. J. F. G. P. Hartmann. No. 1,306,335; June 10; v. 263; p. 240.
- Current rectifier, Alternating-. H. B. Snell. No. 1,326,698; Dec. 30; v. 269; p. 812.
- Current-rectifying apparatus. J. E. Gallant. No. 1,290,167; Jan. 7; v. 258; p. 37.
- Current recuperative control, System of alternating-. R. E. Hellmund. No. 1,320,048; Oct. 28; v. 267; p. 564.
- Current regulator, Constant-. G. H. Cole. No. 1,306,525; June 10; v. 263; p. 275.
- Current regulator, Constant-. H. D. Sanborn. No. 1,313,117; Aug. 12; v. 265; p. 273.
- Current-wheel. W. S. Driscoll and W. F. Davis. No. 1,305,888; June 3; v. 263; p. 124.
- Currents, Amplifier for ringing-. C. S. Demarest. No. 1,322,482; Nov. 18; v. 268; p. 515.
- Currents and controlling the frequency of the same, Means for producing periodic or alternating. P. C. Hewitt. No. 1,321,437; Nov. 11; v. 268; p. 268.
- Currents, Means for producing alternating. A. W. Hull. No. 1,313,188; Aug. 12; v. 265; p. 287.
- Currents, Method of and means for reproducing and amplifying weak pulsating. L. de Forest. No. 1,314,250; Aug. 26; v. 265; p. 538.
- Currents, Rectifying alternating. H. K. Sandell. No. 1,308,448; July 1; v. 264; p. 80.
- Currents, Relay for undulatory. E. Reisz. No. 1,322,503; Nov. 18; v. 268; p. 519.
- Currents, System for amplifying variable. I. Langmuir. No. 1,297,188; Mar. 11; v. 260; p. 344.
- Currents, System for amplifying variable. I. Langmuir. No. 1,313,094; Aug. 12; v. 265; p. 268.
- Currycomb. G. T. Ayer. No. 1,302,755; May 6; v. 262; p. 52.
- Currycomb. W. W. Idle. No. 1,324,899; Dec. 16; v. 269; p. 423.
- Currycomb. C. H. Printz. No. 1,326,782; Dec. 30; v. 269; p. 829.
- Currycomb. J. J. Rogers and P. J. Cosgrove. No. 1,307,702; June 24; v. 263; p. 555.
- Curtain-adjuster. G. W. Humphreys. No. 1,325,401; Dec. 16; v. 269; p. 516.
- Curtain and shade bracket. U. G. Fish. No. 1,290,730; Jan. 7; v. 258; p. 174.



Curtain and shade holder. W. A. Shearer and C. V. Bruch. No. 1,297,261; Mar. 11; v. 260; p. 360.

Curtain and shade holding bracket. E. E. Moore. No. 1,322,811; Nov. 25; v. 268; p. 628.

Curtain and shade-roller support. J. G. Baer. No. 1,292,417; Jan. 28; v. 258; p. 652.

Curtain and window-shade bracket. N. Theriault. No. 1,316,750; Sept. 23; v. 266; p. 493.

Curtain-bracket. V. Westervelt. No. 1,313,768; Aug. 19; v. 265; p. 412.

Curtain-bracket, Self-attaching. C. Ferro. No. 1,325,236; Dec. 16; v. 269; p. 486.

Curtain-drier. R. H. Hoyt. No. 1,306,693; June 17; v. 263; p. 339.

Curtain-fastener. W. Altpeter. No. 1,304,527; May 27; v. 262; p. 489.

Curtain-fastener. C. G. Bauer. No. 1,323,950; Dec. 2; v. 269; p. 137.

Curtain-fastener. E. S. Church. No. 1,298,666; Apr. 1; v. 261; p. 10.

Curtain-fastener. E. S. Church. No. 1,306,524; June 10; v. 263; p. 274.

Curtain-fastener. G. B. Elliott. No. 1,322,772; Nov. 25; v. 268; p. 621.

Curtain-fastener. J. Kirschbaum. No. 1,304,489; May 20; v. 262; p. 442.

Curtain-fastener. J. R. Ramshaw. No. 1,296,427; Mar. 4; v. 260; p. 137.

Curtain-fastener. E. F. Schoell. No. 1,312,138; Aug. 5; v. 265; p. 54.

Curtain-fastener. E. F. Schoell. No. 1,322,140; Nov. 18; v. 268; p. 450.

Curtain-fastener. E. F. Schoell. No. 1,322,141; Nov. 18; v. 268; p. 450.

Curtain-fastener device for vehicle-tops. E. J. Feighery. No. 1,305,082; May 27; v. 262; p. 592.

Curtain-fixture. J. H. Boye. No. 1,309,348; July 8; v. 264; p. 275.

Curtain-fixture. W. H. Bradley. No. 1,307,292; June 17; v. 263; p. 448.

Curtain-fixture. W. S. Hampsher. No. 1,313,237; Aug. 12; v. 265; p. 296.

Curtain-fixture. F. I. Hemingway. No. 1,323,692; Dec. 2; v. 269; p. 87.

Curtain-fixture. B. C. Hill. No. 1,296,289; Mar. 4; v. 260; p. 107.

Curtain-fixture. S. C. Hills. No. 1,324,450; Dec. 9; v. 269; p. 277.

Curtain-fixture. E. La Riviere. No. 1,316,247; Sept. 16; v. 266; p. 348.

Curtain-fixture. W. Passmore. No. 1,294,698; Feb. 18; v. 259; p. 468.

Curtain-fixture. A. C. Thomas. No. 1,324,571; Dec. 9; v. 269; p. 300.

Curtain fixture, Adjustable roll-. C. H. Angus. No. 1,303,010; May 6; v. 262; p. 102.

Curtain for wind-shields, Adjustable. G. Harrold. No. 1,309,133; July 8; v. 264; p. 236.

Curtain-hanger. W. Andress and C. F. Neumann. No. 1,321,800; Nov. 18; v. 268; p. 387.

Curtain-hanger. J. H. Boye. No. 1,301,368; Apr. 22; v. 261; p. 694.

Curtain hanger, Window-. J. D. Allen. No. 1,298,634; Apr. 1; v. 261; p. 3.

Curtain-hanging device. G. A. Carlson. No. 1,315,707; Sept. 9; v. 266; p. 233.

Curtain-holder. R. G. Comstock. No. 1,325,463; Dec. 16; v. 269; p. 527.

Curtain-holder. J. Sowa. No. 1,311,359; July 29; v. 264; p. 747.

Curtain holder, Window-. I. E. Waggoner. No. 1,307,222; June 17; v. 263; p. 434.

Curtain-light. C. J. U. Blomberg. No. 1,302,500; May 6; v. 262; p. 4.

Curtain-light. P. Crosley, Jr. No. 1,317,271; Sept. 30; v. 266; p. 625.

Curtain-light. R. E. Tupper. No. 1,312,087; Aug. 5; v. 265; p. 44.

Curtain-light frame. J. M. Friss. No. 1,294,893; Feb. 18; v. 259; p. 514.

Curtain light, Vehicle-. S. Day. No. 1,303,777; May 13; v. 262; p. 270.

Curtain-pin. R. B. Oakley. No. 1,326,774; Dec. 30; v. 269; p. 827.

Curtain-pole. T. J. Bigham. No. 1,308,217; July 1; v. 264; p. 39.

Curtain-pole. A. Guth. No. 1,324,591; Dec. 9; v. 269; p. 304.

Curtain-pole hanger. J. Bruchas. No. 1,299,673; Apr. 8; v. 261; p. 269.

Curtain-rod. J. H. Boye. No. 1,309,060; July 8; v. 264; p. 223.

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Curtain-rod. G. A. Carlson. No. 1,315,704; Sept. 9; v. 266; p. 233.

Curtain-rod. G. A. Carlson. No. 1,315,705; Sept. 9; v. 266; p. 233.

Curtain-rod. G. A. Carlson. No. 1,315,706; Sept. 9; v. 266; p. 233.

Curtain-rod and shade-roller hanger. G. Anderson. No. 1,303,812; May 13; v. 262; p. 277.

Curtain-rod bracket. S. C. Hills. No. 1,320,007; Oct. 28; v. 267; p. 556.

Curtain-shade fixture. R. Beam. No. 1,319,025; Oct. 14; v. 267; p. 322.

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Curtain-stretcher. G. Freiwald. No. 1,298,323; Mar. 25; v. 260; p. 641.

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Curtain-stretcher. P. H. Koeppe. No. 1,311,653; July 29; v. 264; p. 802.

Curtain-stretcher. M. Krum. No. 1,302,180; Apr. 29; v. 261; p. 878.

Curtain-stretcher. C. K. Olson. No. 1,320,409; Nov. 4; v. 268; p. 10.

Curtain-stretcher. N. Williams. No. 1,318,426; Oct. 14; v. 267; p. 207.

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Curtains and lights in theaters, Electrical apparatus for controlling. C. E. Falconbridge and J. W. Lewsley. No. 1,322,774; Nov. 25; v. 268; p. 621.

Curtains and the like, Fastener for. E. N. Humphrey. No. 1,308,545; July 1; v. 264; p. 98.

Curtains, Automatic release mechanism for vestibule-. L. Brunette. No. 1,323,007; Nov. 25; v. 268; p. 664.

Curtains, Bow-top holder for tops with non-detachable rear. C. L. Bair. No. 1,306,162; June 10; v. 263; p. 205.

Curtains, Releasable handle for diaphragm-. R. S. Mounce. No. 1,314,533; Sept. 2; v. 266; p. 11.

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Heel-cushion. Seat-cushion.

Hinged seat-cushion. Spring-cushion.

Pneumatic cushion.

Cushion. F. P. D'Arcy. No. 1,291,773; Jan. 21; v. 258; p. 473.

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Cushion for crutches and fastenings therefor. Arm-. T. McGoldrick. No. 1,312,030; Aug. 5; v. 265; p. 34.

Cushion or mattress. F. C. Genge. No. 1,321,095; Nov. 11; v. 268; p. 202.

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Cushion-support. H. C. McGregor. No. 1,306,306; June 10; v. 263; p. 235.

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- Cut-out and alarm, Combined. E. Moellmer. No. 1,303,939; May 20; v. 262; p. 338.
- Cut-out, Automatic. G. Kramer. No. 1,324,907; Dec. 16; v. 269; p. 424.
- Cut-out, Automatic. O. A. Ruff. No. 1,293,205; Feb. 4; v. 259; p. 53.
- Cut-out, Automatic heat-controlled. W. C. Newell. No. 1,309,908; July 15; v. 264; p. 417.
- Cut-out, Electrical. L. M. Wolffsohn. No. 1,310,110; July 15; v. 264; p. 453.
- Cut-out for film-rewinds, Automatic. E. H. Francis. No. 1,314,055; Aug. 26; v. 265; p. 500.
- Cut-out, Muffler. I. Stanley. No. 1,304,113; May 20; v. 262; p. 369.
- Cut-out switch, Automatic. A. Fernandez. No. 1,314,470; Aug. 26; v. 265; p. 580.
- Cut-sole rack. H. L. Glidden. No. 1,313,289; Aug. 19; v. 265; p. 322.
- Cutter: *See*—
- Band-cutter. Milling-cutter.
- Bayonet and wire-cutter. Mortise-cutter.
- Bean-cutter. Noodle-cutter.
- Bean-vine cutter. Onion-cutter.
- Belt-cutter. Paper-cutter.
- Biscuit-cutter. Pipe-cutter.
- Bolt-cutter. Potato-cutter.
- Bolt and nut cutter. Roofing-cutter.
- Bread-cutter. Rotary cloth-cutter.
- Butter-cutter. Sanitary-seat-shield cutter.
- Check-cutter. Sheet-cutter.
- Cigar-cutter. Shin-bone cutter.
- Circle-cutter. Soap-cutter.
- Cloth-cutter. Stalk-cutter.
- Doughnut and cookie cutter. Stitch-cutter.
- Dredge-cutter. String-cutter.
- Drill-cutter. Thread-cutter.
- Electric lawn-cutter. Ticket-cutter.
- Ensilage-cutter. Tobacco-cutter.
- Fat-cutter. Trench-cutter.
- Flue-cutter. Trench-wire cutter.
- Gasket-cutter. Twine-cutter.
- Glass-cutter. Vegetable-cutter.
- Grape-cutter. Vine-cutter.
- Hair-cutter. Washer-cutter.
- Ice-cream-brick cutter. Weft-cutter.
- Metal-cutter. Wire-cutter.
- Cutter. W. C. Farnum. No. 1,295,976; Mar. 4; v. 260; p. 36.
- Cutter. H. Mundy and A. Stock. No. 1,296,549; Mar. 4; v. 260; p. 164.
- Cutter for envelop-machines, Adjustable. A. Novick. No. 1,306,499; June 10; v. 263; p. 270.
- Cutter-head. H. Hodapp. No. 1,301,129; Apr. 22; v. 261; p. 646.
- Cutter-head. F. L. Lane and F. R. Weaver. No. 1,298,737; Apr. 1; v. 261; p. 28.
- Cutter-head. C. L. Mattison. No. 1,315,734; Sept. 9; v. 266; p. 238.
- Cutter-head. E. A. McKoy. No. 1,313,710; Aug. 19; v. 265; p. 401.
- Cutter-head. M. Olson. No. 1,308,297; July 1; v. 264; p. 53.
- Cutter-head. A. Weber. No. 1,317,113; Sept. 23; v. 266; p. 559.
- Cutter-head for boring-machines. A. Lechnyr and C. E. Larson. No. 1,322,248; Nov. 18; v. 268; p. 470.
- Cutter-head-knife mounting. C. F. Draper. No. 1,294,638; Feb. 18; v. 259; p. 454.
- Cutter-knives, Instrument for laying out the cutting edges of. R. D. Emery. No. 1,302,645; May 6; v. 262; p. 31.
- Cutting and beveling strips, Apparatus for. J. A. Cook. No. 1,290,097; Jan. 7; v. 258; p. 20.
- Cutting and folding machine. H. M. Barber. No. 1,299,657; Apr. 8; v. 261; p. 265.
- Cutting and mixing machine. C. W. Hottmann. No. 1,314,962; Sept. 2; v. 266; p. 89.
- Cutting and setting device, Saw. A. H. Garrison. No. 1,318,659; Oct. 14; v. 267; p. 252.
- Cutting and stepping machine. L. R. Moore. No. 1,303,221; May 6; v. 262; p. 142.
- Cutting angular holes in material, Machine for. F. Birchland and J. Kear. No. 1,321,881; Nov. 18; v. 268; p. 402.
- Cutting apparatus, Gas. W. C. Bucknam. No. 1,318,725; Oct. 14; v. 267; p. 264.
- Cutting-board. F. C. Bennett. No. 1,307,844; June 24; v. 263; p. 581.
- Cutting clothes, Guiding and controlling instrument for. J. Barody. No. 1,307,232; June 17; v. 263; p. 436.
- Cutting device. G. E. Bernecker. No. 1,319,689; Oct. 28; v. 267; p. 496.
- Cutting device. G. Prosser. No. 1,301,875; Apr. 29; v. 261; p. 821.
- Cutting device. J. R. Webb. No. 1,292,181; Jan. 21; v. 258; p. 576.
- Cutting die and making same. B. Morgan. No. 1,315,030; Sept. 2; v. 266; p. 102.
- Cutting filled wafers, Mechanism and process for. E. E. Lawrence. No. 1,298,520; Mar. 25; v. 260; p. 684.
- Cutting-fluid regulator, Automatic. W. N. Mulligan. No. 1,290,640; Jan. 7; v. 258; p. 151.
- Cutting-machine. W. C. Baxter. No. 1,291,726; Jan. 21; v. 258; p. 461.
- Cutting-machine. L. W. Bleier. No. 1,306,327; June 10; v. 263; p. 238.
- Cutting-machine. J. Kornas. No. 1,291,931; Jan. 21; v. 258; p. 914.
- Cutting-machine. W. Maier. No. 1,318,892; Oct. 14; v. 267; p. 297.
- Cutting-machine. H. E. Mathers. No. 1,308,600; July 1; v. 264; p. 108.
- Cutting-machine. C. F. Pflanze. No. 1,302,211; Apr. 29; v. 261; p. 884.
- Cutting machine, Bulb. R. W. Suman. No. 1,315,799; Sept. 9; v. 266; p. 250.
- Cutting machine, Core-head. W. B. Fogh. No. 1,325,983; Dec. 23; v. 269; p. 641.
- Cutting-machine drag-return. E. R. Person. No. 1,290,336; Jan. 7; v. 258; p. 78.
- Cutting machine, Thread. C. F. Williams. No. 1,318,519; Oct. 14; v. 267; p. 225.
- Cutting machine, Tile. C. A. Thorpe. No. 1,313,213; Aug. 12; v. 265; p. 291.
- Cutting mechanism. F. B. Redington and M. J. Milmoë. No. 1,296,554; Mar. 4; v. 260; p. 165.
- Cutting-off machine. K. W. Halden. No. 1,302,791; May 6; v. 262; p. 58.
- Cutting-off machine. C. F. Holderman. No. 1,305,108; May 27; v. 262; p. 597.
- Cutting or blanking die. G. F. Davis. No. 1,321,896; Nov. 18; v. 268; p. 405.
- Cutting or pressing tool. G. Hutchinson. No. 1,298,951; Apr. 1; v. 261; p. 77.
- Cutting or punching press for sheet material. A. R. Schoenky. No. 1,295,931; Mar. 4; v. 260; p. 25.
- Cutting-tool. D. J. Boucher. No. 1,323,736; Dec. 2; v. 269; p. 96.
- Cutting-tool. A. E. Carter. No. 1,299,125; Apr. 1; v. 261; p. 116.
- Cutting-tool holder. J. C. Bruno. No. 1,293,687; Feb. 11; v. 259; p. 196.
- Cutting tool, Line. C. L. Nichols. No. 1,325,901; Dec. 23; v. 269; p. 626.
- Cutting tool, Thread. P. J. Higgins. No. 1,293,432; Feb. 4; v. 259; p. 107.
- Cyanamid into urea and ammonium compounds, Converting. S. Giertsen. No. 1,326,045; Dec. 3; v. 269; p. 653.
- Cyanamid, Manufacturing. W. H. Middleton. No. 1,315,678; Sept. 9; v. 266; p. 228.
- Cyanid compounds from other substances, Separation of. C. B. Jacobs. No. 1,311,232; July 29; v. 264; p. 723.
- Cyanids and the like from cyanid-bearing material, Recovering. E. E. Arnold. No. 1,314,237; Aug. 26; v. 265; p. 535.
- Cyanids and the like from cyanid-bearing material, System for recovering. E. E. Arnold. No. 1,314,236; Aug. 26; v. 265; p. 535.
- Cyanids, Manufacture of. F. J. Metzger. No. 1,322,195; Nov. 18; v. 268; p. 460.
- Cyanids, Production and extraction of. F. J. Metzger. No. 1,313,313; Aug. 19; v. 265; p. 326.
- Cyanogen and ammonia, Producing. P. A. Starke. No. 1,306,862; June 17; v. 263; p. 369.
- Cyanogen compounds, Apparatus for the production of. J. D. Morgan. No. 1,309,650; July 15; v. 264; p. 369.
- Cyanogen compounds, Making. L. S. Finch. No. 1,312,842; Aug. 12; v. 265; p. 219.
- Cyanogen compounds, Production of. E. R. Lewis. No. 1,321,459; Nov. 11; v. 268; p. 272.
- Cycle explosion-motor, Two-stroke. G. Binche, C. D. Ivry, and H. Prignol. No. 1,317,067; Sept. 23; v. 266; p. 550.
- Cycle-frame. K. P. Scheiner. No. 1,309,305; July 8; v. 264; p. 268.
- Cycle frame, Motor. G. E. Bradshaw. No. 1,306,995; June 17; v. 263; p. 394.
- Cycle-frames, Manufacture of seat-pillar stays and chain-stays of. G. S. James. No. 1,308,591; July 1; v. 264; p. 106.
- Cycle-hand-grip-attaching means. H. J. Cline. No. 1,290,716; Jan. 7; v. 258; p. 171.
- Cycle lubrication system, Motor. W. S. Harley. No. 1,301,258; Apr. 22; v. 261; p. 671.
- Cycle, Motor. J. F. Haussmann. No. 1,302,656; May 6; v. 262; p. 33.
- Cycle, Motor. A. J. Purdy. No. 1,300,772; Apr. 15; v. 261; p. 533.
- Cycle, Safety swimming. A. H. Jones. No. 1,318,879; Oct. 14; v. 267; p. 294.
- Cycles and cars and the like, Mud-guard of motor. M. M. Monie. No. 1,293,861; Feb. 11; v. 259; p. 238.
- Cycles and the like, Control device for motor. R. E. Bates. No. 1,290,699; Jan. 7; v. 258; p. 166.
- Cycles and the like, Free-wheel mechanism for. J. Carse. No. 1,313,067; Aug. 12; v. 265; p. 263.
- Cycles, Demountable driving-wheel for motor. W. J. Noble. No. 1,301,160; Apr. 22; v. 261; p. 652.
- Cycles, Regulating device for. P. A. Fisker. No. 1,317,081; Sept. 23; v. 266; p. 553.
- Cylinder and forming same, Molded commutator. W. H. Kempton. No. 1,326,349; Dec. 30; v. 269; p. 746.



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- Cylinder and piston, Hydraulic. J. Kennedy. No. 1,295,329; Feb. 25; v. 259; p. 636.
- Cylinder, Engine-. P. J. Messer. No. 1,302,692; May 6; v. 262; p. 40.
- Cylinder, Engine-. S. B. Wolgamott. No. 1,306,843; June 17; v. 263; p. 366.
- Cylinder-head. F. Hentschke. No. 1,326,501; Dec. 30; v. 269; p. 775.
- Cylinder-inlaying machine. J. H. Klassen. No. 1,295,992; Mar. 4; v. 260; p. 39.
- Cylinder-lap. W. A. Bockius. No. 1,318,531; Oct. 14; v. 267; p. 227.
- Cylinder-liner, Removable. R. M. Jackson. No. 1,321,792; Nov. 11; v. 268; p. 334.
- Cylinder-linings, Apparatus for removing. J. A. Schanno. No. 1,315,865; Sept. 9; v. 266; p. 265.
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- Cylinder-lock, Combination. D. R. Markley. No. 1,308,090; July 1; v. 264; p. 16.
- Cylinder, Motor-. C. A. Kirkham. No. 1,310,913; July 22; v. 264; p. 631.
- Cylinder pump, Double-acting single-. J. G. Gorman, Jr. No. 1,323,749; Dec. 2; v. 269; p. 98.
- Cylinder-reboring machine. O. W. Nelson. No. 1,295,052; Feb. 18; v. 259; p. 549.
- Cylinder-splitting apparatus. C. F. Warrick. No. 1,320,947; Nov. 4; v. 268; p. 111.
- Cylinder, Temperature-control locomotive-. W. V. Turner. No. 1,314,167; Aug. 26; v. 265; p. 521.
- Cylinders, Construction of water-jacketed engine-. T. C. W. Pullinger. No. 1,301,740; Apr. 22; v. 261; p. 764.
- Cylinders, Drawing glass. W. Westbury. No. 1,306,651; June 10; v. 263; p. 298.
- Cylinders of internal-combustion engines, Bolster-support for. T. C. Menges. No. 1,302,691; May 6; v. 262; p. 40.
- Cylinders, Repairing. J. H. Klassen. No. 1,322,245; Nov. 18; v. 268; p. 470.
- Cylinders with oxygen, Apparatus for charging. M. von Recklinghausen. No. 1,314,773; Sept. 2; v. 266; p. 56.
- Cylindrical articles, Means for pointing. M. O. Anthony. No. 1,322,508; Nov. 25; v. 268; p. 571.
- Cymene, Treating. C. E. Andrews. No. 1,314,920; Sept. 2; v. 266; p. 82.
- D-handle. J. C. Lear. No. 1,320,560; Nov. 4; v. 268; p. 38.
- Dadoing-machine. C. F. Lienke. No. 1,298,065; Mar. 25; v. 260; p. 585.
- Dam construction. F. W. Scheidenhelm. No. 1,316,392; Sept. 16; v. 266; p. 376.
- Dam-holder. E. B. Stoughton. No. 1,292,133; Jan. 21; v. 258; p. 565.
- Dam, Portable hold-up. J. H. Fitzgerald. No. 1,318,656; Oct. 14; v. 267; p. 251.
- Damper. J. E. Bell. No. 1,311,436; July 29; v. 264; p. 762.
- Damper. W. S. Clapp. No. 1,317,614; Sept. 30; v. 266; p. 692.
- Damper. J. C. F. Schafer. No. 1,296,857; Mar. 11; v. 260; p. 271.
- Damper apparatus. H. Rosenberg. No. 1,326,096; Dec. 23; v. 269; p. 663.
- Damper, Automatic. J. Anderson. No. 1,311,202; July 29; v. 264; p. 718.
- Damper-control means. J. E. Winterbotham. No. 1,296,249; Mar. 4; v. 260; p. 99.
- Damper-controller. C. W. Dake. No. 1,298,904; Apr. 1; v. 261; p. 66.
- Damper-controlling mechanism. F. A. MacMurtry. No. 1,291,980; Jan. 21; v. 258; p. 526.
- Damper, Draft-regulating. J. R. Gillson. No. 1,316,439; Sept. 16; v. 266; p. 385.
- Damper, Fireplace-. C. Urstrom. No. 1,308,822; July 8; v. 264; p. 177.
- Damper lock and indicator. H. Rosenberg. No. 1,324,620; Dec. 9; v. 269; p. 310.
- Damper-operating motor. E. H. White. No. 1,299,526; Apr. 8; v. 261; p. 235.
- Damper, Regulating-. R. A. Skinner. No. 1,298,587; Mar. 25; v. 260; p. 697.
- Damper-regulator. T. Connell. No. 1,302,635; May 6; v. 262; p. 29.
- Damper-regulator. M. Matulaitis. No. 1,299,755; Apr. 8; v. 261; p. 288.
- Damper-regulator, Automatic. I. A. Backlund. No. 1,308,015; June 24; v. 263; p. 614.
- Damper-regulators, Motor for. M. W. Eastman. No. 1,314,254; Aug. 26; v. 265; p. 539.
- Damper, Stovepipe, &c. J. W. Filbey. No. 1,325,237; Dec. 16; v. 269; p. 486.
- Damping device, Vibration-. J. G. Vincent. No. 1,315,058; Sept. 2; v. 266; p. 107.
- Dancing and revolving figures and operating mechanism therefor. D. and C. C. Goodman. No. 1,318,071; Oct. 7; v. 267; p. 78.
- Danger-signal. N. A. Arel. No. 1,300,104; Apr. 8; v. 261; p. 365.
- Danger-signal. W. H. Matthew. No. 1,314,088; Aug. 26; v. 265; p. 506.
- Danger-signal. J. W. Pfost. No. 1,305,930; June 3; v. 263; p. 133.
- Date-food product and making same. J. H. Northrop. No. 1,307,691; June 24; v. 263; p. 553.
- Date-shredder. J. H. Northrop. No. 1,307,692; June 24; v. 263; p. 553.
- Dates, Machine for cleaning. J. H. Northrop. No. 1,307,693; June 24; v. 263; p. 554.
- Davenport. H. S. Colegrove. No. 1,319,849; Oct. 28; v. 267; p. 527.
- Davenport. H. Siskin. No. 1,291,208; Jan. 14; v. 258; p. 310.
- Davenport. J. G. Stoneback. (Reissue.) No. 14,655; May 27; v. 262; p. 623.
- Davenport and bed, Combined. J. Hawkins. No. 1,321,911; Nov. 18; v. 268; p. 407.
- Davenport, Folding. W. E. Frank. No. 1,306,475; June 10; v. 263; p. 266.
- Davenport or chair. A. E. Anderson and H. Feldeen. No. 1,295,411; Feb. 25; v. 259; p. 655.
- Davit. J. O. Bradney and H. Priester. No. 1,291,746; Jan. 21; v. 258; p. 466.
- Davit. O. T. Henrikson. No. 1,316,542; Sept. 16; v. 266; p. 405.
- Davit. T. H. Marten. No. 1,304,897; May 27; v. 262; p. 557.
- Davit-block hook for life-boats, Self-releasing. C. B. Preisler. No. 1,297,300; Mar. 11; v. 260; p. 369.
- Davit, Boat-. A. E. Freeman. No. 1,292,294; Jan. 21; v. 258; p. 602.
- Davit, Boat-. T. Schröder-Nielsen. No. 1,312,272; Aug. 5; v. 265; p. 77.
- Davit, Mechanical. T. H. Marten. No. 1,295,183; Feb. 25; v. 259; p. 602.
- Davit, Ship-. J. Ireland. No. 1,291,902; Jan. 21; v. 258; p. 506.
- Davit, Ship-. J. F. Waddington. No. 1,297,276; Mar. 11; v. 260; p. 363.
- Debit and credit slip. E. W. Wiese. No. 1,314,032; Aug. 26; v. 265; p. 496.
- Deck construction. H. B. Hills. No. 1,292,466; Jan. 28; v. 258; p. 663.
- Decomposing compounds. V. M. Weaver. No. 1,323,936; Dec. 2; v. 269; p. 134.
- Decomposing potassium silicates. S. R. Scholes. No. 1,312,053; Aug. 5; v. 265; p. 38.
- Decorating-depositor. A. L. Bausman. No. 1,292,234; Jan. 21; v. 258; p. 589.
- Decorative art. O. W. Keil. No. 1,315,368; Sept. 9; v. 266; p. 174.
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- Decorator's pin. P. Lubetich. No. 1,295,539; Feb. 25; v. 259; p. 685.
- Decorticating-machine. R. S. Maddock, H. L. Brown, and C. G. Sherman. No. 1,315,521; Sept. 9; v. 266; p. 201.
- Decorticating-machine. C. P. Stewart. No. 1,308,267; July 1; v. 264; p. 48.
- Decoy. L. Bacho. No. 1,306,655; June 10; v. 263; p. 299.
- Decoy. W. Levy. No. 1,298,361; Mar. 25; v. 260; p. 648.
- Decoy, Duck-. J. R. Reid and J. D. Bell. No. 1,290,359; Jan. 7; v. 258; p. 83.
- Decoy for wild ducks, &c. D. W. Fauble. No. 1,316,566; Sept. 23; v. 266; p. 458.
- Deflating-machine. H. P. Kraft. No. 1,297,186; Mar. 11; v. 260; p. 344.
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- Dehydrating apparatus. C. Shorman. No. 1,324,073; Dec. 9; v. 269; p. 204.
- Dehydrating apparatus. C. R. Taylor. No. 1,319,978; Oct. 28; v. 267; p. 551.
- Dehydrating, Apparatus for. A. A. Goubert. No. 1,305,600; June 3; v. 263; p. 71.
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- Demand meter, Maximum-. C. A. Boddie. No. 1,303,457; May 13; v. 262; p. 211.
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- Demountable wheel. G. W. Farrell and E. R. Newkirk. No. 1,325,838; Dec. 23; v. 269; p. 615.
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- Demountable wheel. W. H. McQuivey and G. A. Keating No. 1,312,859; Aug. 12; v. 265; p. 222.
- Demountable wheel. T. F. O'Connor. No. 1,310,502; July 22; v. 264; p. 555.
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- Demountable wheel. A. J. Spranger. No. 1,304,112; May 20; v. 262; p. 369.
- Demountable wheel. I. C. Woodward. No. 1,321,907; Nov. 18; v. 268; p. 418.
- Dense fog, Apparatus for excluding. J. Tejima and K. Kishida. No. 1,312,286; Aug. 5; v. 265; p. 80.
- Density-meter. C. N. Sowden. No. 1,298,810; Apr. 1; v. 261; p. 45.
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- Dental appliance. I. Lee. No. 1,317,980; Oct. 7; v. 267; p. 61.
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- Dental articulator. D. D. Campbell. No. 1,301,817; Apr. 29; v. 261; p. 810.
- Dental articulator. M. M. Kerr. No. 1,291,919; Jan. 21; v. 258; p. 510.
- Dental articulator. J. M. O'Keefe. No. 1,324,319; Dec. 9; v. 269; p. 251.
- Dental articulator. W. J. Wilson. No. 1,322,386; Nov. 18; v. 268; p. 497.
- Dental articulator. Motor-driven. W. J. Wilson. No. 1,322,387; Nov. 18; v. 268; p. 497.
- Dental articulator stand. W. M. Stanbrough. No. 1,320,583; Nov. 4; v. 263; p. 42.
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- Dental bridges and bridge-plates. Fastening for removable. C. W. Lokey. No. 1,299,364; Apr. 1; v. 261; p. 170.
- Dental bridges and plates, Anchorage for. S. F. Gilmore. No. 1,320,133; Oct. 28; v. 267; p. 579.
- Dental bridges Facing for. J. H. Abbott. No. 1,317,255; Sept. 30; v. 266; p. 622.
- Dental bridgework. R. G. de la Beldad. No. 1,324,331; Dec. 9; v. 269; p. 253.
- Dental bridgework. C. J. Underwood. No. 1,299,067; Apr. 1; v. 261; p. 104.
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- Dental cabinet and laboratory. W. S. Porter. No. 1,292,055; Jan. 21; v. 258; p. 545.
- Dental cement or stopping, Temporary. C. C. Vogt. No. 1,326,552; Dec. 30; v. 269; p. 785.
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- Dental charts and making same, System of. F. L. Stanton. No. 1,293,567; Feb. 4; v. 259; p. 138.
- Dental crowns, Apparatus for the manufacture of. D. T. Parkinson. No. 1,304,087; May 20; v. 262; p. 365.
- Dental-cuspidor bubble-fountain. T. W. Ross. No. 1,291,163; Jan. 14; v. 258; p. 300.
- Dental-cuspidor fixture. O. H. and A. F. Pieper. No. 1,300,868; Apr. 15; v. 261; p. 553.
- Dental device and denture construction. F. M. Wadsworth. No. 1,319,737; Oct. 28; v. 267; p. 505.
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- Dental drill. F. F. Schlueter. No. 1,321,130; Nov. 11; v. 268; p. 209.
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- Dental-film-drying apparatus. J. L. Garretson. No. 1,291,826; Jan. 21; v. 258; p. 486.
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- Dental implement. M. A. Stevens. No. 1,290,399; Jan. 7; v. 258; p. 92.
- Dental-inlay-casting machine. W. G. Tonkinson and A. G. Hausam. No. 1,324,326; Dec. 9; v. 269; p. 252.
- Dental inlays, Apparatus for casting. E. E. Bailey and J. H. Jacobs. No. 1,320,824; Nov. 4; v. 268; p. 87.
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- Dental instrument. M. M. Kerr. No. 1,307,446; June 24; v. 263; p. 509.
- Dental instrument. D. H. Payne. No. 1,326,089; Dec. 23; v. 269; p. 661.
- Dental instrument. W. Watson. No. 1,325,426; Dec. 16; v. 269; p. 520.
- Dental laboratory instrument. J. S. Davidson. No. 1,293,358; Feb. 4; v. 259; p. 89.
- Dental liquids and the like, Bottle or jar for dispensing. N. K. Garhart. No. 1,304,304; May 20; v. 262; p. 406.
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- Dental tool. C. H. Davis. No. 1,294,423; Feb. 18; v. 259; p. 404.
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- Dental tool. J. H. Shank. No. 1,300,495; Apr. 15; v. 261; p. 475.
- Dental-tool bur-holder. P. J. L. Nemmers. No. 1,292,632; Jan. 28; v. 258; p. 705.
- Dentifrice. M. L. Rhein. No. 1,297,494; Mar. 18; v. 260; p. 438.
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- Depositing-machine. F. G. Salerno. No. 1,294,542; Feb. 18; v. 259; p. 432.
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- Depth-charge projector. A. J. Stone. No. 1,311,780; July 29; v. 264; p. 826.
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- Derrick, Portable transferring-. A. Ebersole. No. 1,311,331; July 29; v. 264; p. 742.
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- Dessicating-machine. J. W. Stamp. No. 1,299,254; Apr. 1; v. 261; p. 145.
- Desk. H. G. Shirley. No. 1,293,952; Feb. 11; v. 259; p. 258.
- Desk and seat, Combination adjustable and convertible school. P. J. Jones and P. D. Schreiber. No. 1,306,486; June 10; v. 263; p. 268.
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- Desk and seat, School. E. N. Moyer. No. 1,319,236; Oct. 21; v. 267; p. 387.
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- Desk Box-. W. Willis. No. 1,305,983; June 3; v. 263; p. 143.
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- Desk, School-. J. J. McMillan. No. 1,296,415; Mar. 4; v. 260; p. 135.
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- Desk-tray rack. F. L. G. Straubel. No. 1,319,431; Oct. 21; v. 267; p. 424.
- Desk, Type-writer. J. H. Heyward. No. 1,321,439; Nov. 11; v. 268; p. 269.
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- Desks, tables, seats, or the like, Adjustable support for. F. L. Welt and W. A. Whitehouse. No. 1,300,229; Apr. 8; v. 261; p. 392.
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- Detachable fastener. H. G. Monroe. No. 1,297,890; Mar. 18; v. 260; p. 523.
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- Detachable-tooth comb. E. H. St. Clair. No. 1,322,268; Nov. 18; v. 268; p. 474.
- Detachable wheel. J. V. Pugh. No. 1,296,007; Mar. 4; v. 260; p. 43.
- Detachable wheel. J. V. Pugh. No. 1,296,316; Mar. 4; v. 260; p. 113.
- Detachable wheel. J. V. Pugh. No. 1,304,510; May 20; v. 262; p. 447.
- Detector. See—
- Gas-detector. Wireless detector.
- Wave-detector.
- Detector device. R. M. Hopkins. No. 1,309,286; July 8; v. 264; p. 264.
- Detent. W. Ferris. No. 1,296,787; Mar. 11; v. 260; p. 254.
- Detergent. S. Wald. No. 1,324,764; Dec. 9; v. 269; p. 336.
- Detonating device. L. F. Nortier. No. 1,290,300; Jan. 7; v. 258; p. 70.
- Detonator. C. H. Allison. No. 1,306,510; June 10; v. 263; p. 272.
- Detonator. L. P. Barlow. No. 1,317,609; Sept. 30; v. 266; p. 691.
- Detonator, Chemical base-. P. L. E. del Fungo-Giera. No. 1,298,467; Mar. 25; v. 260; p. 672.
- Detonator composition. C. M. Stine. No. 1,313,650; Aug. 19; v. 265; p. 390.
- Detonator, Delay-action. P. L. E. del Fungo-Giera. No. 1,298,466; Mar. 25; v. 260; p. 671.
- Devulcanizing process and product thereof. C. F. Willard. No. 1,322,151; Nov. 18; v. 268; p. 452.
- Dextrins, gums, and modified starch, Manufacturing. A. W. H. Lenders. No. 1,305,291; June 3; v. 263; p. 12.
- Dial, Decimal. C. E. Latshaw. No. 1,301,140; Apr. 22; v. 261; p. 648.
- Dial, Instrument-. T. I. Duffy. No. 1,320,383; Nov. 4; v. 268; p. 5.
- Dial-plate construction. P. M. Gelatt. No. 1,297,459; Mar. 18; v. 260; p. 431.
- Dialkyldiarylureas, Producing. H. Winkel. No. 1,307,570; June 24; v. 263; p. 532.
- Diamond-shaped box. C. W. Smith. No. 1,322,637; Nov. 25; v. 268; p. 596.
- Diamond-tool. J. S. Rose. No. 1,299,619; Apr. 8; v. 261; p. 256.
- Diamond-tools, Molding of the metal mounts of. G. A. Joyce. No. 1,314,814; Sept. 2; v. 266; p. 64.
- Diamonds during abrasive treatment, Holding means for. C. J. Coleman. No. 1,291,769; Jan. 21; v. 258; p. 473.
- Diaphragm buffer-spring, Vestibule-. F. G. Fowler. No. 1,299,929; Apr. 8; v. 261; p. 326.
- Diaphragm buffing-machine. A. J. Kipp. No. 1,313,302; Aug. 19; v. 265; p. 324.
- Diaphragm buffing mechanism. E. E. Whitmore. (Re-issue.) No. 14,706; Aug. 12; v. 265; p. 298.
- Diaphragm construction, Cupoidal-. F. E. Miller. No. 1,294,137; Feb. 11; v. 259; p. 302.
- Diaphragm-mounting. H. D. Penney. No. 1,299,604; Apr. 8; v. 261; p. 253.
- Diaphragm or separator. C. J. Thatcher. No. 1,291,253; Jan. 14; v. 258; p. 320.
- Diaphragm, Sound-producing. P. J. Ray. No. 1,315,411; Sept. 9; v. 266; p. 181.
- Diaphragms, Modifying the electrical charge of. B. Schwerin. No. 1,326,104; Dec. 23; v. 269; p. 664.
- Dlary. G. H. Robichon. No. 1,299,782; Apr. 8; v. 261; p. 295.
- Diapores, Treating. O. Hutchins. No. 1,326,595; Dec. 30; v. 269; p. 793.
- Diathermic currents, Apparatus for therapeutically applying. G. Bucky. No. 1,293,689; Feb. 11; v. 259; p. 196.
- Diatomaceous composition. T. M. Caven. No. 1,305,522; June 3; v. 263; p. 55.
- Diazotisation. E. K. Bolton. No. 1,320,443; Nov. 4; v. 268; p. 16.
- Dictograph. L. Scher. No. 1,317,991; Oct. 7; v. 267; p. 63.
- Die. See—
- Cutting or blanking die. Paper-die.
- Embossing-die. Power-hammer die.
- Hat-forming die. Thread-cutting die.
- Metal-drawing die. Upsetting-die.
- Nailing-die.
- Die. C. M. Brehm. No. 1,304,151; May 20; v. 262; p. 376.
- Die. A. Burke. No. 1,294,391; Feb. 18; v. 259; p. 396.
- Die. G. C. Flower. No. 1,310,068; July 15; v. 264; p. 445.
- Die. H. M. Hill. No. 1,130,697; July 22; v. 264; p. 592.
- Die. O. Kasel. No. 1,308,178; July 1; v. 264; p. 31.
- Die. F. J. Shrum. No. 1,320,501; Nov. 4; v. 268; p. 27.
- Die. F. R. Stafford. No. 1,314,611; Sept. 2; v. 266; p. 26.
- Die-casting apparatus. J. Kralund. No. 1,299,738; Apr. 8; v. 261; p. 283.
- Die-casting machine. J. Bate. No. 1,292,679; Jan. 28; v. 258; p. 716.
- Die-casting machine. P. E. Gabriel. No. 1,301,788; Apr. 22; v. 261; p. 775.
- Die-casting machine. J. S. Goldberg. No. 1,322,501; Nov. 18; v. 268; p. 519.
- Die-casting machine. J. S. Gullborg. No. 1,322,502; Nov. 18; v. 268; p. 519.
- Die-castings, Forming. C. Pack. No. 1,299,769; Apr. 8; v. 261; p. 292.
- Die for making radiator units. C. H. True. No. 1,315,614; Sept. 9; v. 266; p. 217.
- Die for trimming blanks. R. L. Wilcox. No. 1,321,962; Nov. 18; v. 268; p. 417.
- Die-head. D. J. Miller. No. 1,296,546; Mar. 4; v. 260; p. 163.
- Die-head chasers, Fastening device for. J. A. Eden, Jr. No. 1,323,584; Dec. 2; v. 269; p. 68.
- Die-holder. J. Beach. No. 1,321,970; Nov. 18; v. 268; p. 418.
- Die-holder, Self-opening. H. N. Jones. No. 1,316,619; Sept. 23; v. 266; p. 467.
- Die or tap holder for automatic screw-machines. A. E. Drissner. No. 1,294,428; Feb. 18; v. 259; p. 406.
- Die-press. K. Gammel. No. 1,305,274; June 3; v. 263; p. 9.
- Die-press. W. H. Sneeston. No. 1,299,046; Apr. 1; v. 261; p. 99.
- Die, Self-opening threading. O. A. Smith. No. 1,318,115; Oct. 7; v. 267; p. 86.
- Die-sinking machine. E. Higgins. No. 1,310,656; July 22; v. 264; p. 584.
- Die-sinking machine. W. E. Sargent. No. 1,317,038; Sept. 23; v. 266; p. 545.
- Die-stock. A. H. Bates. No. 1,305,336; June 3; v. 263; p. 20.
- Die-stock. M. W. Bechtel. No. 1,304,240; May 20; v. 262; p. 395.
- Die-stock. A. B. Chester. No. 1,312,949; Aug. 12; v. 265; p. 239.
- Die-stock. F. Feer. No. 1,307,580; June 24; v. 263; p. 533.
- Die-stock. J. B. Hoover. No. 1,320,756; Nov. 4; v. 268; p. 74.
- Die-stock. J. T. Johnson. No. 1,306,907; June 17; v. 263; p. 378.
- Die-stock. I. W. Nonneman. No. 1,292,025; Jan. 21; v. 258; p. 537.
- Die-stock. I. W. Nonneman. No. 1,306,021; June 10; v. 263; p. 179.
- Die-stock. I. W. Nonneman. No. 1,307,141; June 17; v. 263; p. 420.
- Die-stock. I. W. Nonneman. No. 1,320,644; Nov. 4; v. 268; p. 53.

- Die-stock. L. Ramage. No. 1,322,625; Nov. 25; v. 268; p. 593.
- Die-stock, Ratchet. R. S. Hestand. No. 1,310,620; July 22; v. 264; p. 578.
- Die-support. F. A. Taylor. No. 1,309,970; July 15; v. 264; p. 429.
- Dies. C. H. Brisbin. No. 1,301,095; Apr. 22; v. 261; p. 638.
- Dies, Apparatus for forming. F. J. Vlcek. No. 1,324,286; Dec. 9; v. 269; p. 245.
- Dies, Machine for engraving or sinking. J. F. Keller. No. 1,316,796; Sept. 23; v. 266; p. 500.
- Dies, Machine for engraving or sinking. J. F. Keller. No. 1,325,724; Dec. 23; v. 269; p. 594.
- Dies, Making. B. P. Geist. No. 1,325,194; Dec. 16; v. 269; p. 478.
- Dies, Making. F. R. Stafford. No. 1,314,612; Sept. 2; v. 266; p. 26.
- Dies, Making cutting. A. R. Braden. No. 1,317,753; Oct. 7; v. 267; p. 18.
- Dieling-machine. C. L. Bowers. No. 1,322,525; Nov. 25; v. 268; p. 574.
- Differential. C. H. Brown. No. 1,294,040; Feb. 11; v. 259; p. 279.
- Differential. H. G. Leonard. No. 1,312,856; Aug. 12; v. 265; p. 221.
- Differential coupling. S. G. Stevens. No. 1,312,709; Aug. 12; v. 265; p. 192.
- Differential feeding mechanism. A. H. De Voe. No. 1,313,524; Aug. 19; v. 265; p. 366.
- Differential mechanism. W. H. Brown. No. 1,308,520; July 1; v. 264; p. 93.
- Differential mechanism. A. F. Brush. No. 1,314,568; Sept. 2; v. 266; p. 18.
- Differential mechanism. V. F. Deckert. No. 1,290,111; Jan. 7; v. 258; p. 24.
- Differential mechanism. F. V. Elbertz. No. 1,317,279; Sept. 30; v. 266; p. 626.
- Differential mechanism. E. R. Evans. No. 1,317,281; Sept. 30; v. 266; p. 627.
- Differential mechanism. M. C. Indahl. No. 1,324,253; Dec. 9; v. 269; p. 238.
- Differential mechanism. F. M. Lewis. No. 1,292,818; Jan. 28; v. 258; p. 748.
- Differential mechanism. F. M. Lewis. No. 1,319,655; Oct. 21; v. 267; p. 467.
- Differential mechanism. C. H. Young. No. 1,320,956; Nov. 4; v. 268; p. 113.
- Differential-pressure gage. W. C. Baxter. No. 1,292,418; Jan. 28; v. 258; p. 652.
- Diffuser. C. C. Fricke. No. 1,293,748; Feb. 11; v. 259; p. 210.
- Digesting apparatus. H. D. Rankin. No. 1,300,875; Apr. 15; v. 261; p. 555.
- Digesting finely-divided materials. T. C. Meadows and F. L. Sample. No. 1,326,412; Dec. 30; v. 269; p. 758.
- Digger. See—
- Ditch-digger. Post-hole digger.
- Hole-digger. Potato-digger.
- Peanut-digger. Tree-digger.
- Digging machine, Ditch. E. J. Keith. No. 1,315,512; Sept. 9; v. 266; p. 200.
- Digging or earth-excavating means or device. Land. N. Alchevsky. No. 1,310,728; July 22; v. 264; p. 597.
- Dimethyl-diisopropyl-benzidin and making same. C. E. Andrews. No. 1,314,924; Sept. 2; v. 266; p. 83.
- Dimmer. J. C. Osborn. No. 1,295,823; Feb. 25; v. 259; p. 751.
- Dimming device. O. R. Ford. No. 1,297,822; Mar. 18; v. 260; p. 508.
- Dinitrodiphenylamin, Preparing. J. Marshall. No. 1,309,580; July 8; v. 264; p. 319.
- Diolefins, Apparatus for producing. G. Mersereau. No. 1,308,802; July 8; v. 264; p. 174.
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- Diphenyl, Production of. J. M. Weiss and C. R. Downs. No. 1,322,983; Nov. 25; v. 268; p. 660.
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- Diphenylamin, Production of. H. Rogers. No. 1,314,538; Sept. 2; v. 266; p. 12.
- Dipper, Doughnut. J. Blaschke. No. 1,319,373; Oct. 21; v. 267; p. 413.
- Dipper or bucket. H. Herring. No. 1,296,800; Mar. 11; v. 260; p. 257.
- Dipping-wheel. H. S. Busby. No. 1,295,114; Feb. 25; v. 259; p. 587.
- Direction-indicator. H. H. Banks. No. 1,306,093; June 10; v. 263; p. 192.
- Direction-indicator. E. R. Barnum. No. 1,308,323; July 1; v. 264; p. 58.
- Direction-indicator. J. L. Garver. No. 1,295,301; Feb. 25; v. 259; p. 629.
- Direction-indicator. F. W. Godfrey. No. 1,326,722; Dec. 30; v. 269; p. 817.
- Direction-indicator. J. B. Harshman. No. 1,303,476; May 13; v. 262; p. 215.
- Direction-indicator. N. W. Kleinman. No. 1,316,486; Sept. 16; v. 266; p. 394.
- Direction-indicator. W. M. Matthews. No. 1,295,783; Feb. 25; v. 259; p. 741.
- Direction-indicator. W. G. McMillan. No. 1,314,084; Aug. 26; v. 265; p. 506.
- Direction-indicator. R. Mestek. No. 1,294,932; Feb. 18; v. 259; p. 523.
- Direction-indicator. J. P. Niper. No. 1,311,289; July 29; v. 264; p. 734.
- Direction-indicator. L. A. and A. A. Ownbey. No. 1,292,028; Jan. 21; v. 258; p. 537.
- Direction-indicator. S. Papp. No. 1,324,977; Dec. 16; v. 269; p. 437.
- Direction-indicator. J. R. Rummerfield. No. 1,299,863; Apr. 8; v. 261; p. 312.
- Direction-indicator. R. L. B. Struble. No. 1,318,816; Oct. 14; v. 267; p. 281.
- Direction-indicator. J. H. Tregoning. No. 1,309,265; July 8; v. 264; p. 260.
- Direction-indicator. J. Valcauda. No. 1,297,612; Mar. 18; v. 260; p. 464.
- Direction-indicator. W. Wiegand. No. 1,310,316; July 15; v. 264; p. 490.
- Direction-indicator. H. Wilson. No. 1,326,316; Dec. 30; v. 269; p. 740.
- Direction-indicator, Automatic. J. Hineman. No. 1,321,526; Nov. 11; v. 268; p. 284.
- Direction-indicator, Automobile. H. T. Doran. No. 1,318,982; Oct. 14; v. 267; p. 314.
- Direction-indicator, Electrical. H. Kageyama. No. 1,304,573; May 27; v. 262; p. 497.
- Direction-signal. J. Erdie. No. 1,307,964; June 24; v. 263; p. 604.
- Direction-signal. H. Lieberman. No. 1,299,361; Apr. 1; v. 261; p. 169.
- Direction-signal. W. F. Rohrs. No. 1,320,925; Nov. 4; v. 268; p. 107.
- Direction-signal, Automobile. R. Wilde and E. R. Wimmermark. No. 1,314,626; Sept. 2; v. 266; p. 29.
- Directive sending system. O. E. Buckley. No. 1,301,644; Apr. 22; v. 261; p. 744.
- Directory, Telephone. C. F. Middlebrook. No. 1,303,100; May 6; v. 262; p. 118.
- Discharge mechanism for bituminous distributors. A. Fricker. No. 1,297,135; Mar. 11; v. 260; p. 333.
- Dish, Baking. L. W. Farmer. No. 1,295,466; Feb. 25; v. 259; p. 667.
- Dish-cleaner. W. R. Walker. No. 1,297,943; Mar. 18; v. 260; p. 535.
- Dish-washer. F. Fitzgerald. No. 1,299,698; Apr. 8; v. 261; p. 274.
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- Dish-washer. M. Wagenhorst. No. 1,306,089; June 10; v. 263; p. 192.
- Dish-washer, Portable. H. F. Cavanaugh and A. Doran. No. 1,315,181; Sept. 2; v. 266; p. 129.
- Dish-washing apparatus. J. Lutolf. No. 1,292,495; Jan. 28; v. 258; p. 670.
- Dish-washing machine. E. M. Benedict. (Reissue.) No. 14,612; Mar. 18; v. 260; p. 544.
- Dish-washing machine. G. S. Blakeslee. No. 1,299,667; Apr. 8; v. 261; p. 268.
- Dish-washing machine. A. E. Cornwall and C. D. Enoch. No. 1,323,216; Nov. 25; v. 268; p. 705.
- Dish-washing machine. A. J. Fisher. No. 1,295,470; Feb. 25; v. 259; p. 668.
- Dish-washing machine. J. Holeck. No. 1,325,246; Dec. 16; v. 269; p. 488.
- Dish-washing machine. J. B. Kline. No. 1,323,989; Dec. 2; v. 269; p. 144.
- Dish-washing machine. J. A. Masonick. No. 1,293,848; Feb. 11; v. 259; p. 234.
- Dish-washing machine. J. H. McCain. No. 1,292,497; Jan. 28; v. 258; p. 671.
- Dish-washing machine. V. Montalto. No. 1,298,544; Mar. 25; v. 260; p. 689.
- Dish-washing machine. J. and M. M. O'Byrne. No. 1,323,199; Nov. 25; v. 268; p. 702.
- Dish-washing machine. J. Vaudruil. No. 1,314,622; Sept. 2; v. 266; p. 28.
- Disinfectant apparatus. R. J. Ciancaglini. No. 1,307,535; June 24; v. 263; p. 525.
- Disinfectant apparatus. J. G. Goodhue. No. 1,293,405; Feb. 4; v. 259; p. 100.
- Disinfecting apparatus. J. G. Goodhue. No. 1,293,406; Feb. 4; v. 259; p. 100.
- Disinfecting apparatus. J. G. Goodhue. No. 1,309,029; July 8; v. 264; p. 217.
- Disinfecting apparatus. S. Kawanishi. No. 1,309,859; July 15; v. 264; p. 407.
- Disinfecting apparatus or the like. J. G. Goodhue. No. 1,293,408; Feb. 4; v. 259; p. 101.
- Disinfecting device. G. E. Bates. No. 1,321,357; Nov. 11; v. 268; p. 252.
- Disinfecting device. I. N. and C. F. Latchaw. No. 1,298,972; Apr. 1; v. 261; p. 83.
- Disinfecting device. T. Sowerby. No. 1,322,838; Nov. 25; v. 268; p. 632.
- Disinfecting solutions, &c., Composition of matter adapted for use as. C. Ellis. No. 1,302,905; May 6; v. 262; p. 81.
- Disinfecting system. J. G. Goodhue. No. 1,309,028; July 8; v. 264; p. 217.



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- Disintegrating and conserving mechanism. E. A. McKay and G. D. Moore. No. 1,312,450; Aug. 5; v. 265; p. 112.
- Disintegrating and separating device, Combined. M. F. Williams. No. 1,312,658; Aug. 12; v. 265; p. 183.
- Disk-cutting machine. A. Bogdanffy. No. 1,307,077; June 17; v. 263; p. 409.
- Disk drill. W. Fetzner. No. 1,299,160; Apr. 1; v. 261; p. 124.
- Disk engine. J. M. K. Pennink. No. 1,323,907; Dec. 2; v. 269; p. 129.
- Disk-holder. O. A. Messersmith. No. 1,306,969; June 17; v. 263; p. 389.
- Disk-ink-eraser-operating device. F. H. Call. No. 1,302,763; May 6; v. 262; p. 53.
- Disk meter. C. G. de Laval and G. R. Townsend. No. 1,317,273; Sept. 30; v. 266; p. 625.
- Disk, Playing-. G. Huber. No. 1,299,833; Apr. 8; v. 261; p. 306.
- Disk records, Production of. R. A. Gloetzner. No. 1,311,342; July 29; v. 264; p. 744.
- Disk-sharpener. S. W. Snyder. No. 1,315,747; Sept. 9; v. 266; p. 241.
- Disk-sharpener. H. H. Summers. No. 1,316,520; Sept. 16; v. 266; p. 401.
- Disk-sorting machine. T. Allatt. No. 1,323,145; Nov. 25; v. 268; p. 690.
- Disk-wheel. L. B. Harvey. No. 1,307,005; June 17; v. 263; p. 396.
- Disks, Forming abrasive. S. M. Bullock and H. S. Lloyd. No. 1,311,550; July 29; v. 264; p. 784.
- Disks, Forming tapering-cross-section. A. L. Putnam. (Reissue.) No. 14,713; Aug. 19; v. 265; p. 432.
- Disks, Machine for manufacturing abrading-. J. A. Hickey. No. 1,291,513; Jan. 14; v. 258; p. 380.
- Disks or slabs, Producing variously-colored decorative. A. S. Schulz. No. 1,307,886; June 24; v. 263; p. 589.
- Dispenser. E. M. Cosner. No. 1,294,056; Feb. 11; v. 259; p. 283.
- Dispenser. G. H. Hohnsbeen. No. 1,293,438; Feb. 4; v. 259; p. 108.
- Dispenser, Automatic. F. W. Adsit. No. 1,296,032; Mar. 4; v. 260; p. 49.
- Dispensing and recording apparatus. C. S. Batdorf. (Reissue.) No. 14,586; Jan. 14; v. 258; p. 424.
- Dispensing apparatus. S. Bache and L. C. Andersen. No. 1,319,830; Oct. 26; v. 267; p. 523.
- Dispensing apparatus. C. J. Drewes. No. 1,296,172; Mar. 4; v. 260; p. 82.
- Dispensing apparatus. W. J. Eisenhardt. No. 1,313,174; Aug. 12; v. 265; p. 284.
- Dispensing apparatus. O. Jaeger. No. 1,307,444; June 24; v. 263; p. 509.
- Dispensing apparatus. J. T. Llewellyn. No. 1,320,250; Oct. 28; v. 267; p. 602.
- Dispensing apparatus. T. K. Nishioka. No. 1,301,301; Apr. 22; v. 261; p. 680.
- Dispensing apparatus. H. H. Smith. No. 1,314,987; Sept. 2; v. 266; p. 95.
- Dispensing-apparatus recording device. F. W. Henninger. No. 1,291,874; Jan. 21; v. 258; p. 498.
- Dispensing apparatus, Sanitary. F. Younger. No. 1,303,141; May 6; v. 262; p. 127.
- Dispensing appliance. I. A. Weaver. No. 1,290,814; Jan. 7; v. 258; p. 193.
- Dispensing device. T. E. Barnes. No. 1,319,264; Oct. 21; v. 267; p. 393.
- Dispensing device. W. P. Robertson. No. 1,319,534; Oct. 21; v. 267; p. 444.
- Dispensing device. J. Stubbers. No. 1,318,817; Oct. 14; v. 267; p. 281.
- Dispensing-can. R. J. Byrum. No. 1,298,003; Mar. 25; v. 260; p. 573.
- Dispensing-can. J. Ryan. No. 1,311,013; July 22; v. 264; p. 650.
- Dispensing-can. L. Story. No. 1,305,572; June 3; v. 263; p. 65.
- Dispensing-container. R. H. Campbell. No. 1,296,045; Mar. 4; v. 260; p. 53.
- Dispensing device. M. Eckstein. No. 1,291,804; Jan. 21; v. 258; p. 481.
- Dispensing device. O. Jaeger. No. 1,298,048; Mar. 25; v. 260; p. 582.
- Dispensing device. O. Jaeger. No. 1,302,052; Apr. 29; v. 261; p. 855.
- Dispensing device. C. H. Rauen. No. 1,297,244; Mar. 11; v. 260; p. 357.
- Dispensing device. A. J. Steiner and W. A. Krafft. No. 1,294,187; Feb. 11; v. 259; p. 314.
- Dispensing-machine. M. H. Lockwood and H. Nias. No. 1,311,170; July 29; v. 264; p. 712.
- Dispensing machine, Ticket-. R. H. Helsel. No. 1,304,975; May 27; v. 262; p. 571.
- Dispensing-receptacle. L. S. Chadwick. No. 1,299,914; Apr. 8; v. 261; p. 323.
- Dispensing-receptacle. L. D. Myers. No. 1,294,299; Feb. 11; v. 259; p. 339.
- Dispensing vessel. R. H. Elliott. No. 1,304,463; May 20; v. 262; p. 438.
- Dispersed systems, Producing. F. Diebold. No. 1,295,283; Feb. 25; v. 259; p. 625.
- Display apparatus. C. H. Carter. No. 1,297,542; Mar. 18; v. 260; p. 448.
- Display apparatus. T. W. Small. No. 1,308,200; July 1; v. 264; p. 36.
- Display apparatus, Advertising. T. W. Moran. No. 1,296,307; Mar. 4; v. 260; p. 112.
- Display-box. A. R. Bonham. No. 1,296,158; Mar. 4; v. 260; p. 79.
- Display-box. C. E. Harris. No. 1,324,669; Dec. 9; v. 269; p. 318.
- Display-box. C. M. Simpson. No. 1,319,973; Oct. 28; v. 267; p. 550.
- Display-box. P. Walker. No. 1,301,201; Apr. 22; v. 261; p. 660.
- Display-cabinet. J. L. Flannery, Jr. No. 1,325,238; Dec. 16; v. 269; p. 486.
- Display-cabinet. J. L. Flannery, Jr. No. 1,325,239; Dec. 16; v. 269; p. 487.
- Display-cabinet. E. H. Heppe. No. 1,317,162; Sept. 30; v. 266; p. 605.
- Display-cabinet. G. B. Nason. No. 1,313,498; Aug. 19; v. 265; p. 861.
- Display-cabinet, Folding. W. C. Carlson. No. 1,298,453; Mar. 25; v. 260; p. 668.
- Display-cans, Contents-lifter for. H. C. Smith. No. 1,310,219; July 15; v. 264; p. 473.
- Display-card for buttons and the like. F. J. Appelbee. No. 1,310,729; July 22; v. 264; p. 597.
- Display-card holder. C. M. Suck. No. 1,309,705; July 15; v. 264; p. 379.
- Display-card support. J. A. Heithaus. No. 1,303,306; May 13; v. 262; p. 184.
- Display-carton. A. Dietsche. No. 1,313,585; Aug. 19; v. 265; p. 378.
- Display-carton. R. R. Richardson. No. 1,301,169; Apr. 22; v. 261; p. 654.
- Display-carton. R. R. Richardson. No. 1,301,170; Apr. 22; v. 261; p. 654.
- Display-carton, Easel. C. A. Saybolt. No. 1,296,223; Mar. 4; v. 260; p. 93.
- Display-carton, Easel. C. A. Saybolt. No. 1,322,629; Nov. 25; v. 268; p. 594.
- Display-case. O. L. Finn. No. 1,326,718; Dec. 30; v. 269; p. 816.
- Display-case. A. Weber. No. 1,308,312; July 1; v. 264; p. 56.
- Display-clip. E. B. Bicker. No. 1,296,584; Mar. 4; v. 260; p. 172.
- Display-counter top, Refrigerated-. W. A. Freeman. No. 1,304,956; May 27; v. 262; p. 568.
- Display device. D. Bacher. No. 1,297,311; Mar. 18; v. 260; p. 401.
- Display device. A. W. Cadmus. No. 1,304,737; May 27; v. 262; p. 527.
- Display device. J. Garami. No. 1,311,601; July 29; v. 264; p. 793.
- Display device. A. Gartner. No. 1,301,117; Apr. 22; v. 261; p. 643.
- Display device. A. Gartner. No. 1,301,119; Apr. 22; v. 261; p. 643.
- Display device. M. M. Hammond. No. 1,324,349; Dec. 9; v. 269; p. 257.
- Display device. J. Harris and R. D. Bogue. No. 1,308,949; July 8; v. 264; p. 200.
- Display device. R. C. Kaiser. No. 1,313,897; Aug. 26; v. 265; p. 469.
- Display device. H. D. Lyman. No. 1,313,548; Aug. 19; v. 265; p. 371.
- Display device. S. Mittleburg. No. 1,315,524; Sept. 9; v. 266; p. 202.
- Display device. S. Mittleburg. No. 1,317,307; Sept. 30; v. 266; p. 632.
- Display device. M. Nathan. No. 1,294,522; Feb. 18; v. 259; p. 428.
- Display device, Adjustable. R. Herman. No. 1,290,189; Jan. 7; v. 258; p. 42.
- Display device, Mechanical. E. A. Dieterich. No. 1,323,968; Dec. 2; v. 269; p. 140.
- Display device, Millinery-. H. Stearns. No. 1,302,987; May 6; v. 262; p. 97.
- Display device, Sample-. W. E. Chipman. No. 1,321,363; Nov. 11; v. 268; p. 253.
- Display device, Tie-pin-. M. Frank. No. 1,290,962; Jan. 14; v. 258; p. 254.
- Display-easel. C. T. Fairbanks. No. 1,295,465; Feb. 25; v. 259; p. 667.
- Display-figure. F. A. Schaeetzke. No. 1,319,800; Oct. 28; v. 267; p. 517.
- Display-fixture. S. Goldberg. No. 1,314,958; Sept. 2; v. 266; p. 88.
- Display-fixture. N. J. Miano. No. 1,314,887; Sept. 2; v. 266; p. 76.
- Display-fixture. N. J. Miano. No. 1,322,596; Nov. 25; v. 268; p. 588.
- Display-fixture. C. H. Morgan. No. 1,303,361; May 13; v. 262; p. 194.
- Display-frame. E. L. Schuster, Jr. No. 1,300,492; Apr. 15; v. 261; p. 474.
- Display holder, Necktie-. M. A. Heimann. No. 1,291,870; Jan. 21; v. 258; p. 497.
- Display-rack. M. J. Bell. No. 1,308,031; July 1; v. 264; p. 5.

- Display-rack. F. M. Ethridge. No. 1,300,942; Apr. 15; v. 261; p. 569.
- Display-rack. H. T. Fogg and J. J. Ferrall. No. 1,291,463; Jan. 14; v. 258; p. 370.
- Display-rack. F. W. Gibson. No. 1,294,258; Feb. 11; v. 259; p. 330.
- Display-rack. F. W. Gibson. No. 1,314,796; Sept. 2; v. 268; p. 60.
- Display-rack. S. Himmel. No. 1,300,167; Apr. 8; v. 261; p. 378.
- Display-rack. W. T. Hormes. No. 1,304,771; May 27; v. 262; p. 534.
- Display-rack. H. V. Lough. No. 1,294,130; Feb. 11; v. 259; p. 301.
- Display-rack. C. C. Rush. No. 1,299,783; Apr. 8; v. 261; p. 295.
- Display-rack. E. B. Weston. No. 1,319,130; Oct. 21; v. 267; p. 366.
- Display-rack. B. E. Willett. No. 1,311,305; July 29; v. 264; p. 737.
- Display-rack for goods. L. D. Kroff. No. 1,311,976; Aug. 5; v. 265; p. 23.
- Display-rack, Knockdown. O. G. Ziegler. No. 1,301,797; Apr. 22; v. 261; p. 777.
- Display rack or stand. F. W. Gibson. No. 1,293,752; Feb. 11; v. 259; p. 211.
- Display-receptacle. B. Rosenberg. No. 1,306,632; June 10; v. 263; p. 294.
- Display refrigerator-case. W. T. Huenig. No. 1,295,507; Feb. 25; v. 259; p. 677.
- Display-sign, Water-tank electric. F. W. Meyer. No. 1,313,550; Aug. 19; v. 265; p. 371.
- Display-stand. J. A. Brady. No. 1,320,310; Oct. 28; v. 267; p. 612.
- Display-stand. C. P. Carroll. No. 1,299,677; Apr. 8; v. 261; p. 270.
- Display-stand. C. F. Hays. No. 1,292,314; Jan. 21; v. 258; p. 607.
- Display-stand. G. M. Johnson. No. 1,292,329; Jan. 21; v. 258; p. 611.
- Display-stand. W. A. J. Lowe and J. H. Long. No. 1,326,755; Dec. 30; v. 269; p. 823.
- Display-stand. W. Nixon. No. 1,312,043; Aug. 5; v. 265; p. 36.
- Display-top for boxes. D. Steinhauer. No. 1,314,989; Sept. 2; v. 266; p. 95.
- Display-tray. N. Schoenfeld. No. 1,320,933; Nov. 4; v. 268; p. 108.
- Display-trays, Spacing device for. W. T. Hormes. No. 1,322,791; Nov. 25; v. 268; p. 624.
- Display-trunk. M. A. Gronseth. No. 1,325,843; Dec. 23; v. 269; p. 616.
- Display-trunk, Wardrobe. C. Heinlein, Sr. No. 1,322,901; Nov. 25; v. 268; p. 644.
- Displaying and indorsing machine. E. F. Chandler. No. 1,290,509; Jan. 7; v. 258; p. 120.
- Displaying announcements, advertisements, or the like, Apparatus for. C. Skaife. No. 1,304,395; May 20; v. 262; p. 424.
- Displaying device. H. Hauptman. No. 1,322,435; Nov. 18; v. 268; p. 506.
- Displaying device. M. G. Mather. No. 1,304,899; May 27; v. 262; p. 557.
- Displaying or advertising apparatus. J. H. Clegg. No. 1,321,720; Nov. 11; v. 268; p. 321.
- Distance-indicator. L. J. Stearn. No. 1,311,253; July 29; v. 264; p. 727.
- Distillates, Condensing and treating. R. Fleming. No. 1,325,668; Dec. 23; v. 269; p. 583.
- Distillation. R. K. Wright, Jr. No. 1,316,214; Sept. 16; v. 266; p. 342.
- Distillation, Method of and apparatus for. H. A. Frasch. No. 1,318,657; Oct. 14; v. 267; p. 251.
- Distillation of liquids, Process and apparatus for fractional. C. Goudet. No. 1,312,974; Aug. 12; v. 265; p. 245.
- Distillation process and apparatus. E. J. Hudson and H. C. Merriam. No. 1,303,321; May 13; v. 262; p. 187.
- Distillation-tube. F. W. Sperr, Jr. No. 1,303,980; May 20; v. 262; p. 346.
- Distilling apparatus. E. A. Chenard. No. 1,307,184; June 17; v. 263; p. 428.
- Distilling apparatus. J. E. Doubleday. No. 1,306,687; June 17; v. 263; p. 338.
- Distilling apparatus. W. Fourness. No. 1,306,056; June 10; v. 263; p. 186.
- Distilling apparatus. F. A. Graham. No. 1,302,363; Apr. 29; v. 261; p. 913.
- Distilling apparatus. I. Hechenbleikner and P. S. Gilchrist. No. 1,310,078; July 15; v. 264; p. 447.
- Distilling apparatus. J. Piette. No. 1,297,590; Mar. 18; v. 260; p. 458.
- Distilling apparatus. O. S. Sleeper. No. 1,321,133; Nov. 11; v. 268; p. 209.
- Distilling crude resins, Method and apparatus for. R. Dunwoody. No. 1,317,781; Oct. 7; v. 267; p. 23.
- Distributor. P. C. Haas. No. 1,305,093; May 27; v. 262; p. 594.
- Distributing apparatus. P. M. Rainey. No. 1,311,915; Aug. 5; v. 265; p. 12.
- Distributing-fountain mechanism. H. F. Bechman. No. 1,293,305; Feb. 4; v. 259; p. 77.
- Distributing-machine. J. R. Peirce. No. 1,316,461; Sept. 16; v. 266; p. 389.
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- Distributing system. A. Chernyshoff. No. 1,292,578; Jan. 28; v. 258; p. 692.
- Distributing system. C. L. G. Fortescue. No. 1,308,059; July 1; v. 264; p. 10.
- Distributing system, Call-. S. B. Williams, Jr. No. 1,304,641; May 27; v. 262; p. 509.
- Distribution system. D. Basch. No. 1,297,780; Mar. 18; v. 260; p. 501.
- Distribution system. C. L. Fortescue. No. 1,295,887; Mar. 4; v. 260; p. 15.
- Distribution system. J. F. Peters. No. 1,291,111; Jan. 14; v. 258; p. 288.
- Distribution system. W. I. Thomson. No. 1,316,603; Sept. 23; v. 266; p. 464.
- Ditch builder and cleaner. J. E. McClain. No. 1,290,996; Mar. 4; v. 260; p. 40.
- Ditch-digger. E. B. Miller. No. 1,296,994; Mar. 11; v. 260; p. 302.
- Ditch-digging machine. K. J. Nordby. No. 1,295,576; Feb. 25; v. 259; p. 694.
- Ditch-forming machine. E. W. Smith. No. 1,326,538; Dec. 30; v. 269; p. 783.
- Ditches, Dam for irrigating. F. E. Hoover. No. 1,315,726; Sept. 9; v. 266; p. 237.
- Ditcher. T. Foster. No. 1,320,128; Oct. 28; v. 267; p. 579.
- Ditcher and grader. F. O. Schlueter. No. 1,300,299; Apr. 15; v. 261; p. 433.
- Ditcher, Hillside and roadside. V. T. Grabs. No. 1,299,932; Apr. 8; v. 261; p. 327.
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- Ditching and earth-moving machine. W. S. Bales. No. 1,316,074; Sept. 16; v. 266; p. 316.
- Ditching-machine. A. Bramer. No. 1,316,999; Sept. 23; v. 266; p. 538.
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- Diving-armor. J. F. Long. No. 1,305,656; June 3; v. 263; p. 81.
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- Doll construction. E. L. Smith. No. 1,321,135; Nov. 11; v. 268; p. 210.
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- Doll-head. A. Denes. No. 1,309,190; July 8; v. 264; p. 246.
- Doll-head. A. Denes. No. 1,309,191; July 8; v. 264; p. 246.
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- Doll, lay figure, skeleton, and the like. C. L. B. de Saunier. No. 1,315,820; Sept. 9; v. 266; p. 254.



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- Doll, Movable-eye. B. Pelz. No. 1,310,925; July 22; v. 264; p. 633.
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- Dolls, Adjustable eye-tilting device for. W. G. Kellow. No. 1,312,447; Aug. 5; v. 265; p. 112.
- Dolls, Attachable ear for. E. L. Smith. No. 1,292,113; Jan. 21; v. 258; p. 559.
- Dolls, Eye-moving mechanism for. R. R. Cone. No. 1,322,763; Nov. 25; v. 268; p. 619.
- Doll's eyes. M. P. and F. D. Smith. No. 1,298,808; Apr. 1; v. 261; p. 45.
- Dolls, Eyes for. C. A. and A. Giebeler-Wanke. No. 1,319,472; Oct. 21; v. 267; p. 433.
- Dolls, Eyes for. D. Pudlin. No. 1,310,293; July 15; v. 264; p. 486.
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- Doll's limb and joint therefor. C. A. Giebeler-Wanke. No. 1,321,028; Nov. 4; v. 268; p. 127.
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- Door and fittings therefor, Hollow. F. E. and C. P. Howard. No. 1,326,450; Dec. 30; v. 269; p. 765.
- Door and gate operating mechanism. M. C. Oster. No. 1,314,206; Aug. 26; v. 265; p. 529.
- Door and operating means therefor. M. C. Oster. No. 1,314,207; Aug. 26; v. 265; p. 529.
- Door and window lock, Portable. D. D. Good. No. 1,318,987; Oct. 14; v. 267; p. 315.
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- Door bolt-lock. A. J. Grimeck. No. 1,293,414; Feb. 4; v. 259; p. 103.
- Door bolt-lock. R. Herlihy. No. 1,294,462; Feb. 18; v. 259; p. 414.
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- Door-catch. S. R. Hughes. No. 1,302,168; Apr. 29; v. 261; p. 876.
- Door-catch. J. J. Lynn. No. 1,311,982; Aug. 5; v. 265; p. 24.
- Door-catch. E. Mikkelsen. No. 1,297,221; Mar. 11; v. 260; p. 351.
- Door catch, Screen-. R. T. Hill. No. 1,291,886; Jan. 21; v. 257; p. 501.
- Door-check. F. P. Angell. No. 1,309,056; July 8; v. 264; p. 223.
- Door-check. W. J. Behn. No. 1,302,286; Apr. 29; v. 261; p. 898.
- Door-check. J. P. Griffin. No. 1,326,050; Dec. 23; v. 269; p. 654.
- Door-check; F. J. Henderson. No. 1,296,184; Mar. 4; v. 260; p. 85.
- Door-check. M. J. Lawler. No. 1,297,189; Mar. 11; v. 260; p. 345.
- Door-check. J. H. Shaw. No. 1,311,184; July 29; v. 264; p. 715.
- Door-check. E. M. Woodworth. No. 1,307,948; June 24; v. 263; p. 601.
- Door check and closer. A. T. Loftsgaarden. No. 1,304,333; May 20; v. 262; p. 411.
- Door check and closer. W. J. Neidl. No. 1,291,605; Jan. 14; v. 258; p. 402.
- Door check and closer. J. C. Schmidt. (Reissue.) No. 1,4674; June 24; v. 263; p. 616.
- Door-check and door-closing device, Combined. G. W. Stoiber. No. 1,313,612; Aug. 19; v. 265; p. 383.
- Door-check, Pneumatic. H. A. Nelson. No. 1,290,643; Jan. 7; v. 258; p. 152.
- Door check or stop. R. Nardi. No. 1,317,888; Oct. 7; v. 267; p. 43.
- Door-closer. J. M. Bousquet. No. 1,326,841; Dec. 30; v. 269; p. 840.
- Door-closer. A. J. Hathcox. No. 1,294,903; Feb. 18; v. 259; p. 516.
- Door-closer. P. Mikkelsen. No. 1,299,373; Apr. 1; v. 261; p. 172.
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- Door-closer. L. C. Norton. No. 1,319,173; Oct. 21; v. 267; p. 376.
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- Door-closer. P. C. Richter. No. 1,315,156; Sept. 2; v. 266; p. 124.
- Door closer and check, Double-acting. H. G. Voight. No. 1,323,338; Dec. 2; v. 269; p. 22.
- Door closing and locking device, Sliding-. A. Withall. No. 1,290,462; Jan. 7; v. 258; p. 109.
- Door-closing device. J. O. Naslin. No. 1,318,903; Oct. 14; v. 267; p. 298.
- Door-closure. W. Mumbrauer. No. 1,323,783; Dec. 2; v. 269; p. 105.
- Door, Combination-. J. Gruen, Jr. No. 1,314,959; Sept. 2; v. 266; p. 89.
- Door-controller. P. A. Boos. No. 1,318,349; Oct. 14; v. 267; p. 192.
- Door-controlling device. S. E. Perkins. No. 1,326,286; Dec. 30; v. 269; p. 735.
- Door, Core-oven. F. A. Coleman. No. 1,307,483; June 24; v. 263; p. 516.
- Door, Electrically-operated. S. Elliott. No. 1,326,130; Dec. 23; v. 269; p. 668.
- Door-fastener. M. Corbett. No. 1,294,406; Feb. 18; v. 259; p. 400.
- Door-fastener. A. B. Howard. No. 1,290,560; Jan. 7; v. 258; p. 132.
- Door-fastener. C. C. Peterson. No. 1,300,481; Apr. 15; v. 261; p. 471.
- Door-fastener. E. J. Wirfs. No. 1,307,229; June 17; v. 263; p. 436.
- Door fastener, Retort-. F. L. Miller. No. 1,300,633; Apr. 15; v. 261; p. 503.
- Door-fastening means. E. O. Fellroth. No. 1,326,586; Dec. 30; v. 269; p. 792.
- Door fastening, Screen-. B. Moore and G. O. Stansbury. No. 1,299,596; Apr. 8; v. 261; p. 251.
- Door, Fireproof. A. C. Goddard. No. 1,295,728; Feb. 25; v. 259; p. 728.
- Door, Folding. E. Berardinelli. No. 1,318,433; Oct. 14; v. 267; p. 209.
- Door for box-cars, Protective. R. E. Stars. No. 1,309,373; July 8; v. 264; p. 280.
- Door for elevator-shafts, Vertically-sliding. B. Wexler. No. 1,299,886; Apr. 8; v. 261; p. 317.
- Door for refuse-incinerators, Hopper-. T. Kerner. No. 1,297,360; Mar. 18; v. 260; p. 410.
- Door-frame buck and trim-fastening, Metallic. A. J. Cornell. No. 1,308,276; July 1; v. 264; p. 49.
- Door-frame, Hollow metal. H. R. Gogay. No. 1,323,755; Dec. 2; v. 269; p. 99.
- Door-frame, Hollow metal. H. R. Gogay. No. 1,323,757; Dec. 2; v. 269; p. 100.
- Door-frame, Hollow metal. H. R. Gogay. No. 1,323,758; Dec. 2; v. 269; p. 100.
- Door, Furnace-. T. G. Averill. No. 1,311,369; July 29; v. 264; p. 749.
- Door, Grain-. H. S. Bryant and F. Miller. No. 1,293,024; Feb. 4; v. 259; p. 12.
- Door, Grain-. B. W. Whitworth. No. 1,319,368; Oct. 21; v. 267; p. 412.
- Door-handle. C. P. Pond. No. 1,305,619; June 3; v. 263; p. 75.
- Door - handling mechanism. C. V. McIntire. No. 1,292,622; Jan. 28; v. 258; p. 703.
- Door-hanger. C. E. Cederborg. No. 1,293,705; Feb. 11; v. 259; p. 200.
- Door-hanger. J. E. Corbin. No. 1,303,775; May 13; v. 262; p. 270.
- Door-hanger. A. F. Larson. No. 1,309,205; July 8; v. 264; p. 249.
- Door-hanger. A. J. Rosentreter. No. 1,319,490; Oct. 21; v. 267; p. 436.
- Door-hanger. L. T. Weiss. No. 1,325,428; Dec. 16; v. 269; p. 521.
- Door hanger, Sliding-. J. C. Strom. No. 1,325,123; Dec. 16; v. 269; p. 465.
- Door-holder. F. X. Dusseau. No. 1,290,133; Jan. 7; v. 258; p. 29.
- Door-holder, Automatic. H. G. Voight. No. 1,309,310; July 8; v. 264; p. 269.
- Door holder, Hinge-hung-. E. Heffernan. No. 1,295,747; Feb. 25; v. 259; p. 733.
- Door-holding device. H. K. Hitchcock. No. 1,305,212; May 27; v. 262; p. 617.
- Door, Hollow metal. H. R. Gogay. No. 1,323,753; Dec. 2; v. 269; p. 99.

- Door, Hollow metal. H. R. Gogay. No. 1,323,754; Dec. 2; v. 269; p. 99.
- Door, Hollow metal. H. R. Gogay. No. 1,323,756; Dec. 2; v. 269; p. 100.
- Door-hook. J. McCormick. No. 1,291,576; Jan. 14; v. 258; p. 395.
- Door hook, Screen-. O. C. Williamson. No. 1,313,969; Aug. 26; v. 265; p. 484.
- Dough-hopper-lubricating device. F. H. Van Houten. No. 1,293,256; Feb. 4; v. 259; p. 65.
- Door-jamb, Adjustable. C. C. Smith. No. 1,307,216; June 17; v. 263; p. 433.
- Door-knob. M. W. Bird. No. 1,308,325; July 1; v. 264; p. 58.
- Door-knob, Illuminating. J. L. L. Hall. No. 1,291,494; Jan. 14; v. 258; p. 376.
- Door latch and lock. L. E. Christy. No. 1,312,160; Aug. 5; v. 265; p. 58.
- Door latch and lock, Secret-. A. M. Johnson. No. 1,316,448; Sept. 16; v. 266; p. 386.
- Door-lock. N. O. Billings. No. 1,305,959; June 3; v. 263; p. 138.
- Door-lock. L. V. Boehringer and H. Thomassen. No. 1,308,473; July 1; v. 264; p. 84.
- Door-lock. L. J. Chappelle. No. 1,294,399; Feb. 18; v. 259; p. 398.
- Door-lock. S. P. Gehret. No. 1,304,175; May 20; v. 262; p. 381.
- Door-lock. W. Mumbrauer. No. 1,324,018; Dec. 2; v. 269; p. 150.
- Door-lock. O. C. Rixson. No. 1,316,329; Sept. 16; v. 266; p. 364.
- Door-lock. J. Sardo. No. 1,320,028; Oct. 28; v. 267; p. 560.
- Door-lock. W. R. Schlage. No. 1,313,920; Aug. 26; v. 265; p. 474.
- Door-lock. F. Vogelsang. No. 1,312,219; Aug. 5; v. 265; p. 69.
- Door-lock. G. Wegner. No. 1,297,616; Mar. 18; v. 260; p. 464.
- Door lock and latch, Springless. L. F. Bonaly. No. 1,326,173; Dec. 30; v. 269; p. 713.
- Door-lock mechanism. W. J. Hosceit. No. 1,311,561; July 29; v. 264; p. 785.
- Door-lock mechanism. F. P. Smith. No. 1,324,181; Dec. 9; v. 269; p. 224.
- Door lock mechanism, Sliding-. F. E. and C. P. Howard. No. 1,301,789; Apr. 22; v. 261; p. 775.
- Door-lock plate. C. W. Briffmeyer. No. 1,295,458; Feb. 25; v. 259; p. 665.
- Door-locking device, Cell-. E. Porro. No. 1,299,222; Apr. 1; v. 261; p. 137.
- Door-locking mechanism. W. J. Hosceit. No. 1,311,562; July 29; v. 264; p. 786.
- Door-locking mechanism. J. F. Kissane and F. E. Schoonmaker. No. 1,306,260; June 10; v. 263; p. 227.
- Door-opener, Automatic. J. B. Haskell, F. Brueske, and C. C. Palmer. No. 1,323,529; Dec. 2; v. 269; p. 58.
- Door opener or closer, Automatic. P. L. De Marce. No. 1,307,348; June 24; v. 263; p. 491.
- Door opening and closing device. A. Pierce. No. 1,301,736; Apr. 22; v. 261; p. 763.
- Door opening and closing mechanism. S. A. Teel. No. 1,315,053; Sept. 2; v. 266; p. 106.
- Door operating and locking device. W. S. Ryan. No. 1,300,782; Apr. 15; v. 261; p. 535.
- Door-operating device. M. Lenko. No. 1,297,702; Mar. 18; v. 260; p. 483.
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- Door-operating means. H. W. Crane. No. 1,290,718; Jan. 7; v. 258; p. 171.
- Door-operating mechanism. A. Campbell. No. 1,317,775; Oct. 7; v. 267; p. 22.
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- Door-operating mechanism. P. R. Forman. No. 1,325,084; Dec. 16; v. 269; p. 457.
- Door-operating mechanism. E. A. Gross. No. 1,299,830; Apr. 8; v. 261; p. 305.
- Door-operating mechanism. H. S. Hart. No. 1,318,444; Oct. 14; v. 267; p. 211.
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- Door-operating mechanism. L. V. Homan. No. 1,315,308; Sept. 9; v. 266; p. 162.
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- Door-operating mechanism. J. M. Mohr. No. 1,301,484; Apr. 22; v. 261; p. 715.
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- Door or window frame structure, Metal. H. R. Gogay. No. 1,301,930; Apr. 29; v. 261; p. 832.
- Door-retainer. A. Gravel. No. 1,292,310; Jan. 21; v. 258; p. 606.
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- Door, Slide-up turnover. F. W. Boughton. No. 1,316,677; Sept. 23; v. 266; p. 479.
- Door, Sliding. J. H. Roberts. No. 1,294,169; Feb. 11; v. 259; p. 309.
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- Doors, Holder for use in fitting. S. D. Simpson and F. C. La Grieco. No. 1,292,112; Jan. 21; v. 258; p. 559.
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- Doors, Locking and guiding bolt for combined swinging and sliding. E. T. Murphy. No. 1,302,409; Apr. 29; v. 261; p. 922.
- Doors, Manufacture of hollow metallic. F. E. Howard. No. 1,301,790; Apr. 22; v. 261; p. 775.
- Doorways, &c., Hanger for flexible coverings for. W. H. Fitch. No. 1,307,440; June 24; v. 263; p. 508.
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- Dough-handling machines, Mechanical movement for. B. D. Pinkney. No. 1,310,711; July 22; v. 264; p. 594.
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- Dough, Machine for spacing lumps of. F. H. Van Houten. No. 1,319,190; Oct. 21; v. 267; p. 379.
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- Dowel-wedging machine. C. E. Evans. No. 1,317,159; Sept. 30; v. 266; p. 604.
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- Draft-gear, Friction. E. W. Newell. No. 1,295,053; Feb. 18; v. 259; p. 549.
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- Draft-regulator, Automatic. T. E. Anderberg. No. 1,307,950; June 24; v. 263; p. 601.
- Draft-regulator, Automatic. E. W. Walborn. No. 1,320,298; Oct. 28; v. 267; p. 610.
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- Draft-rigging. W. Turnbull. No. 1,326,551; Dec. 30; v. 269; p. 785.
- Draft-rigging check-plate. J. F. O'Connor. No. 1,290,309; Jan. 7; v. 258; p. 72.
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- Draft-rigging, Friction. T. H. Symington. No. 1,318,186; Oct. 7; v. 267; p. 100.
- Draft-rigging friction-gear. G. A. Johnson. No. 1,300,402; Apr. 15; v. 261; p. 455.
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- Draft-sill and body-bolster, Combined metallic. A. C. Mather. No. 1,317,521; Sept. 30; v. 266; p. 673.
- Draft system and smoke-consumer, Forced-. F. P. Miller. No. 1,297,582; Mar. 18; v. 260; p. 457.
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- Drafting or measuring instrument. J. Herman. No. 1,294,263; Feb. 11; v. 259; p. 331.
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- Draftsman's case. A. N. Trullench. No. 1,314,915; Sept. 2; v. 266; p. 81.
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- Drag, Double. T. F. Hudson. No. 1,318,561; Oct. 14; v. 267; p. 233.
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- Drag, Road-. C. Samdahl. No. 1,317,037; Sept. 23; v. 266; p. 544.
- Drag-saw. J. Johnson. No. 1,303,561; May 13; v. 262; p. 230.
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- Drain, Faucet-. B. E. Eaton. No. 1,324,110; Dec. 9; v. 269; p. 211.
- Drain-pipe cleaner. E. H. Amet. No. 1,308,469; July 1; v. 264; p. 84.
- Drain-pipe-thawing device. L. A. Brennar. No. 1,299,671; Apr. 8; v. 261; p. 269.
- Drain systems, Backwater-trap for. G. J. Dehn. No. 1,318,545; Oct. 14; v. 267; p. 230.
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- Drain-valve. C. W. Newcombe. No. 1,310,501; July 22; v. 264; p. 555.
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- Draw-bar, Continuous. H. Lee and E. H. Hansen. No. 1,320,011; Oct. 28; v. 267; p. 557.
- Draw-gear and buffing apparatus. J. H. McCormick. No. 1,319,883; Oct. 28; v. 267; p. 533.
- Drawbridge. J. C. Turner. No. 1,297,044; Mar. 11; v. 260; p. 313.

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- Drawbridges and the like, Safety device for. J. Lindall. No. 1,303,077; May 6; v. 262; p. 113.
- Drawer-carrier. A. Voigt. No. 1,321,166; Nov. 11; v. 268; p. 216.
- Drawer-carrier. A. Voigt. No. 1,321,167; Nov. 11; v. 268; p. 216.
- Drawer construction, Trunk-. G. H. Wheary. No. 1,312,714; Aug. 12; v. 265; p. 193.
- Drawer-guide. G. H. Wheary. No. 1,304,133; May 20; v. 262; p. 373.
- Drawer-lock. T. M. House. No. 1,312,032; Aug. 5; v. 265; p. 34.
- Drawer-locking means. H. W. Cottrell. No. 1,299,302; Apr. 1; v. 261; p. 156.
- Drawer-mounting. E. G. Carlson. No. 1,311,042; July 22; v. 264; p. 655.
- Drawer-pull fastener. L. M. Bodine. No. 1,319,948; Oct. 28; v. 267; p. 546.
- Drawer-stabilizer. W. F. Streich. No. 1,321,859; Nov. 18; v. 268; p. 398.
- Drawer-stop. H. C. Miller. No. 1,295,186; Feb. 25; v. 259; p. 603.
- Drawers and similar receptacles, Suspension for. O. M. Otte. No. 1,301,495; Apr. 22; v. 261; p. 717.
- Drawers, Apparatus for locking. C. L. Coombs. No. 1,315,709; Sept. 9; v. 266; p. 234.
- Drawers, Side and end lock for. J. Schiavone. No. 1,318,011; Oct. 7; v. 267; p. 67.
- Drawing and measuring instrument. D. M. Bernard. No. 1,301,092; Apr. 22; v. 261; p. 638.
- Drawing and measuring instrument, Combination. D. M. Bernard. No. 1,307,076; June 17; v. 263; p. 409.
- Drawing and measuring instrument, Combination. D. M. Bernard. No. 1,307,233; June 17; v. 263; p. 437.
- Drawing apparatus. J. G. Sparks. No. 1,306,861; June 17; v. 263; p. 369.
- Drawing apparatus, Glass-. W. Westbury. No. 1,307,943; June 24; v. 263; p. 600.
- Drawing-board. J. I. Thornycroft. No. 1,316,931; Sept. 23; v. 266; p. 525.
- Drawing-board attachment. P. L. Raffo. No. 1,313,732; Aug. 19; v. 265; p. 405.
- Drawing-board bracket, Adjustable-. T. T. Andresiak. No. 1,320,439; Nov. 4; v. 268; p. 16.
- Drawing glass cylinders. W. Westbury. No. 1,307,946; June 24; v. 263; p. 601.
- Drawing instrument. O. E. Chaney. No. 1,307,958; June 24; v. 263; p. 603.
- Drawing instrument. A. S. Harcos. No. 1,299,179; Apr. 1; v. 261; p. 129.
- Drawing instrument. J. Nash. No. 1,315,679; Sept. 9; v. 266; p. 228.
- Drawing instrument. W. A. Schenck. No. 1,292,086; Jan. 21; v. 258; p. 553.
- Drawing-machine. H. F. Randall. No. 1,325,802; Dec. 23; v. 269; p. 608.
- Drawing or sketch board. F. B. Lawrence. No. 1,316,729; Sept. 23; v. 266; p. 489.
- Drawing-press. E. W. Zeh. No. 1,322,861; Nov. 25; v. 268; p. 637.
- Drawing-roll for drawing and evening rolls. P. McHale. No. 1,323,297; Dec. 2; v. 269; p. 14.
- Drawing rods, Apparatus for. J. T. Moltrup. No. 1,298,999; Apr. 1; v. 261; p. 88.
- Drawing-table. E. R. Koechlin. No. 1,303,683; May 13; v. 262; p. 253.
- Dredge, Clam-. E. C. Warren. No. 1,318,517; Oct. 14; v. 267; p. 225.
- Dredge, Dipper-. A. W. Robinson. No. 1,323,323; Dec. 2; v. 269; p. 19.
- Dredge, Gold-. A. C. Ludlum and A. Lowy. No. 1,315,228; Sept. 9; v. 266; p. 148.
- Dredge, Oyster-. H. C. Taylor. No. 1,323,122; Nov. 25; v. 268; p. 686.
- Dredger. U. Bachman. No. 1,291,635; Jan. 14; v. 258; p. 409.
- Dredger-cutter. L. R. Calder. No. 1,316,349; Sept. 16; v. 266; p. 368.
- Dredging apparatus. W. O'Connell. No. 1,307,370; June 24; v. 263; p. 495.
- Dredging apparatus. J. Ream. No. 1,323,611; Dec. 2; v. 269; p. 73.
- Dredging apparatus, Submarine. F. W. Ebeling. No. 1,314,793; Sept. 2; v. 266; p. 60.
- Dress, Adjustable. A. G. Bradley. No. 1,294,037; Feb. 11; v. 259; p. 279.
- Dress, Doll's. J. Baum. No. 1,300,915; Apr. 15; v. 261; p. 564.
- Dress-form. C. A. Wford. No. 1,293,580; Feb. 4; v. 259; p. 141.
- Dress-form, Adjustable. H. R. Konikoff. No. 1,313,303; Aug. 19; v. 265; p. 325.
- Dress, Military. E. C. Ekker. No. 1,291,809; Jan. 21; v. 258; p. 482.
- Dress or other garment, House-. M. E. McKevitt and M. Cohen. No. 1,291,048; Jan. 14; v. 258; p. 273.
- Dress, Seamless. M. Reeser and W. W. Stebbins. No. 1,309,487; July 8; v. 264; p. 301.
- Dressing-room, Portable beach. E. O. Higdon and A. J. Coleman. No. 1,315,497; Sept. 9; v. 266; p. 197.
- Dressmaker's stand. M. Stalder. No. 1,293,967; Feb. 11; v. 259; p. 262.
- Drier. *See—*
- Air-drier.
- Corn-drier.
- Curtain-drier.
- Fertilizer-drier.
- Fruit-drier.
- Fruit and vegetable drier.
- Grain-drier.
- Hair-drier.
- Lumber-drier.
- Macaroni-drier.
- Nitrocellulose-drier.
- Operating drier.
- Photograph and blueprint drier.
- Rotary drier.
- Seed-corn drier.
- Vegetable-drier.
- Drier. J. B. Adt. No. 1,311,481; July 29; v. 264; p. 761.
- Drier. L. R. Christie. No. 1,318,133; Oct. 7; v. 267; p. 90.
- Drier. D. S. Crosby and S. E. Cullum. No. 1,300,701; Apr. 15; v. 261; p. 518.
- Drier. R. Douglas. No. 1,301,112; Apr. 22; v. 261; p. 642.
- Drier. J. C. Dozier. No. 1,310,858; July 22; v. 264; p. 621.
- Drier. E. C. Horst. No. 1,291,891; Jan. 21; v. 258; p. 503.
- Drier. E. C. Horst. No. 1,294,804; Feb. 18; v. 259; p. 493.
- Drier. E. C. Horst. No. 1,294,805; Feb. 18; v. 259; p. 493.
- Drier. E. C. Horst. No. 1,325,848; Dec. 23; v. 269; p. 617.
- Drier. W. A. Hutchinson. No. 1,308,241; July 1; v. 264; p. 43.
- Drier. R. W. King. No. 1,293,799; Feb. 11; v. 259; p. 223.
- Drier. J. T. Le Messurier. No. 1,323,484; Dec. 2; v. 269; p. 49.
- Drier. R. L. Lund. No. 1,318,780; Oct. 14; v. 267; p. 274.
- Drier. G. D. Parker. No. 1,297,722; Mar. 18; v. 260; p. 487.
- Drier. W. E. Petty. No. 1,297,727; Mar. 18; v. 260; p. 488.
- Drier. W. E. Prindle. No. 1,321,332; Nov. 11; v. 268; p. 248.
- Drier. F. T. Richards. No. 1,307,270; June 17; v. 263; p. 444.
- Drier. F. G. Sargent. No. 1,311,250; July 29; v. 264; p. 727.
- Drier. A. Schwarzman. No. 1,291,185; Jan. 14; v. 258; p. 304.
- Drier. G. E. Shatto. No. 1,297,409; Mar. 18; v. 260; p. 421.
- Drier. A. F. Sinclair. No. 1,294,547; Feb. 18; v. 259; p. 433.
- Drier. A. Wertenbruch. No. 1,314,994; Sept. 2; v. 266; p. 96.
- Drier. M. Wittenberg and R. W. King. No. 1,295,946; Mar. 4; v. 260; p. 28.
- Drier and evaporator. D. Hill and J. A. Meroney, Sr. No. 1,296,519; Mar. 4; v. 260; p. 157.
- Drier and making same. A. Schwarzman. No. 1,291,186; Jan. 14; v. 258; p. 305.
- Drier for macaroni, &c. P. De Martini. No. 1,307,785; June 24; v. 263; p. 570.
- Dry battery. C. F. Burgess. No. 1,297,653; Mar. 18; v. 260; p. 471.
- Dry cell. C. F. Burgess. No. 1,302,304; Apr. 29; v. 261; p. 902.
- Dry cell. H. F. French and R. C. Benner. No. 1,295,475; Feb. 25; v. 259; p. 669.
- Dry cell. C. W. Hazelett. No. 1,316,233; Sept. 16; v. 266; p. 346.
- Dry cell and manufacturing. C. Hambuechen. No. 1,292,764; Jan. 28; v. 258; p. 735.
- Dry cells, Composition for the manufacture of. G. W. B. Neff and E. A. Jenkins. No. 1,305,485; June 3; v. 263; p. 48.
- Dry cells, Resuscitating spent. K. Horil. No. 1,311,559; July 29; v. 264; p. 785.
- Dry-cleaning extractor. W. Forger. No. 1,307,661; June 24; v. 263; p. 547.
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- Dry closet. C. F. Tarbutton. No. 1,324,754; Dec. 9; v. 269; p. 335.
- Dry closet, Sanitary. L. Button. No. 1,298,658; Apr. 1; v. 261; p. 8.
- Dry-kiln. C. A. Lohman. No. 1,294,129; Feb. 11; v. 259; p. 300.
- Dry washer. E. P. Morgan. No. 1,319,165; Oct. 21; v. 267; p. 375.
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- Drying and cutting machine, Clay-pin. D. D. Irwin. No. 1,315,507; Sept. 9; v. 266; p. 199.
- Drying and shrinking device. A. L. Jacobs. No. 1,308,951; July 8; v. 264; p. 201.
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- Drying apparatus. A. Nordstrom and C. A. Oberg. No. 1,326,525; Dec. 30; v. 269; p. 780.
- Drying apparatus. F. A. Secord. No. 1,315,530; Sept. 9; v. 266; p. 203.
- Drying apparatus. G. J. Stevenson. No. 1,322,209; Nov. 18; v. 268; p. 463.
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- Drying-machine. E. T. Firth. No. 1,310,824; July 22; v. 264; p. 616.
- Drying-machine. H. Parker. No. 1,322,813; Nov. 25; v. 268; p. 628.
- Drying-machine. B. A. Parkes. No. 1,301,594; Apr. 22; v. 261; p. 735.
- Drying-machine. A. B. Starr. No. 1,297,926; Mar. 18; v. 260; p. 531.
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- Drying material and drier therefor. R. Rea. No. 1,320,569; Nov. 4; v. 268; p. 40.
- Drying materials, Apparatus for. H. E. Hollister. No. 1,304,182; May 20; v. 262; p. 382.
- Drying materials, Method of and apparatus for. H. E. Hollister. No. 1,301,130; Apr. 22; v. 261; p. 646.
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- Drying plant. M. P. P. Gloess. No. 1,322,428; Nov. 18; v. 268; p. 505.
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- Drying-tumbler. J. F. Broderick. No. 1,323,673; Dec. 2; v. 269; p. 84.
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- Drill: See—
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- Chain-drill. Rock-drill.
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- Core-drill. Power-drill.
- Dental drill. Roller-drill.
- Disk drill. Roller-boring drill.
- Electric well-drill. Rotary boring-drill.
- Expansion-drill. Seed-drill.
- Fluid-operated percussive drill. Seed and fertilizer drill.
- Grain-drill. Sharpener-drill.
- Mine-drill. Twist-drill.
- Oil-drill. Underground portable drill.
- Percussion-drill. Well-drill.
- Drill. H. Bernay. No. 1,318,958; Oct. 14; v. 267; p. 309.
- Drill. C. J. Esseling. No. 1,306,674; June 10; v. 263; p. 302.
- Drill. E. L. Fogleman. No. 1,299,318; Apr. 1; v. 261; p. 160.
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- Drill-operating mechanism. J. O. Ackerman and J. Moe. No. 1,301,531; Apr. 22; v. 261; p. 724.
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- Drills, Adjustable-arm structure for multiple-spindle. E. W. Cleveland. No. 1,316,142; Sept. 16; v. 266; p. 328.
- Drills, air-tools, &c., Connecting-rod and toggle for pneumatic. L. Sykes. No. 1,318,704; Oct. 14; v. 267; p. 260.
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- Drilling-machine. E. L. Dillon. No. 1,309,277; July 8; v. 264; p. 262.
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- Drilling or boring machine. F. C. Johnson. No. 1,314,669; Sept. 2; v. 266; p. 37.
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- Drilling or sowing machine. Rotary. C. E. P. Julien. No. 1,304,321; May 20; v. 262; p. 409.
- Drilling-tool. Rotary. C. P. Mayner. No. 1,292,842; Jan. 28; v. 258; p. 754.
- Drilling-tool. Rotary. J. W. Pippin. No. 1,290,340; Jan. 7; v. 258; p. 79.
- Drink-dispensing apparatus. Carbonated-mixed-. M. F. Wooten and C. C. and P. V. Harmon. No. 1,316,528; Sept. 16; v. 266; p. 403.
- Drink-mixer. C. W. Coffin. No. 1,298,897; Apr. 1; v. 261; p. 64.
- Drink-mixer. H. M. Smith. No. 1,318,021; Oct. 7; v. 267; p. 69.
- Drink-mixer. C. Vogt. No. 1,323,506; Dec. 2; v. 269; p. 53.
- Drinking apparatus. J. M. B. Lewis. No. 1,317,801; Oct. 7; v. 267; p. 27.
- Drinking apparatus. Sanitary. F. D. Silver. No. 1,297,410; Mar. 18; v. 260; p. 421.
- Drinking-cup. W. W. E. Boyer. No. 1,297,994; Mar. 25; v. 260; p. 571.
- Drinking-cup. H. B. Cooley. (Reissue.) No. 14,650; May 20; v. 262; p. 451.
- Drinking-cup. V. E. Fermier. No. 1,296,786; Mar. 11; v. 260; p. 254.
- Drinking-cup receptacle. W. E. Swift. No. 1,291,245; Jan. 14; v. 258; p. 318.
- Drinking-cups. Container for. W. E. Swift. No. 1,324,753; Dec. 9; v. 269; p. 334.
- Drinking device. B. A. Stair. No. 1,314,374; Aug. 26; v. 265; p. 562.
- Drinking-fountain. H. E. Kruecke. No. 1,290,583; Jan. 7; v. 258; p. 137.
- Drinking-fountain. R. B. Rodgers. No. 1,290,785; Jan. 7; v. 258; p. 186.
- Drinking-fountain. E. G. Watrous. No. 1,304,003; May 20; v. 262; p. 350.
- Drinking-fountain attachment. G. R. Pratt. No. 1,297,399; Mar. 18; v. 260; p. 419.
- Drinking-fountain fixture. J. A. Farley. No. 1,312,623; Aug. 12; v. 265; p. 176.
- Drinking-fountain. Poultry. W. D. Wygal. No. 1,299,091; Apr. 1; v. 261; p. 109.
- Drinking-fountain. Sanitary. W. G. Jackson. No. 1,314,066; Aug. 26; v. 265; p. 502.
- Drinking-fountain. Sanitary. P. Mueller. No. 1,311,833; July 29; v. 264; p. 835.
- Drinking-fountain. Self-contained. D. H. Bowlzer and A. I. Fischer. No. 1,324,142; Dec. 9; v. 269; p. 217.
- Drive-control means. H. I. Morris. No. 1,322,041; Nov. 18; v. 268; p. 431.
- Drive mechanism. W. F. Drew. No. 1,306,330; June 10; v. 263; p. 239.
- Drive mechanism. Differential. B. A. Adler. No. 1,290,031; Jan. 7; v. 258; p. 4.
- Drive mechanism. Differential. C. W. Latham. No. 1,316,248; Sept. 16; v. 266; p. 348.
- Drive mechanism. Monowheel. C. H. Pratt. No. 1,310,542; July 22; v. 264; p. 563.
- Drive, Variable-velocity-ratio friction-. J. E. Preston. No. 1,318,588; Oct. 14; v. 267; p. 238.
- Driving and reversing mechanism. W. A. E. Henrici. No. 1,309,410; July 8; v. 264; p. 287.
- Driving and steering wheel. C. M. Motte. No. 1,306,554; June 10; v. 263; p. 280.
- Driving and stopping mechanism. G. S. Hill. No. 1,291,885; Jan. 21; v. 257; p. 501.
- Driving and stopping mechanism. J. Kiewicz. No. 1,326,668; Dec. 30; v. 269; p. 806.
- Driving and stopping mechanism. W. C. Meyer. No. 1,298,758; Apr. 1; v. 261; p. 33.
- Driving-chain. H. Renold and A. E. Carter. No. 1,306,561; June 10; v. 263; p. 281.
- Driving connection. Resilient. G. H. F. Holy. No. 1,306,543; June 10; v. 263; p. 278.
- Driving device. J. B. Sturtevant. No. 1,325,384; Dec. 16; v. 269; p. 513.
- Driving mechanism. A. W. Altorfor. No. 1,302,120; Apr. 29; v. 261; p. 867.
- Driving mechanism. C. T. Evans. No. 1,325,010; Dec. 16; v. 269; p. 443.
- Driving mechanism. T. A. Griffith. No. 1,315,115; Sept. 2; v. 266; p. 117.
- Driving mechanism. F. C. Guerrlich. No. 1,309,518; July 8; v. 264; p. 307.
- Driving mechanism. H. C. Hoting. No. 1,323,392; Dec. 2; v. 269; p. 32.
- Driving mechanism. M. C. Indahl. No. 1,308,634; July 1; v. 264; p. 115.
- Driving mechanism. R. Janney. No. 1,307,819; June 24; v. 263; p. 577.
- Driving mechanism. C. J. Marth. No. 1,296,100; Mar. 4; v. 260; p. 65.
- Driving mechanism. C. W. Robinson. No. 1,291,153; Jan. 14; v. 258; p. 297.
- Driving mechanism. Variable-traverse. A. B. Fahnestock. No. 1,323,972; Dec. 2; v. 269; p. 141.
- Driving-shaft. Telescopic. D. T. Timberlake. No. 1,310,971; July 22; v. 264; p. 642.
- Driving-wheel. M. J. Milmoec. No. 1,312,704; Aug. 12; v. 265; p. 191.
- Driving wheel and crank. K. Rushton. No. 1,313,735; Aug. 19; v. 265; p. 406.
- Driving-wheel. Dirigible. J. Dain. No. 1,304,029; May 20; v. 262; p. 354.
- Drop-hammers and the like. Composite die for. A. F. Arthur. No. 1,302,274; Apr. 29; v. 261; p. 896.
- Dropper-holder. M. J. Ritterath. No. 1,326,878; Dec. 30; v. 269; p. 846.
- Dropper-wheel. J. A. Randall. No. 1,294,703; Feb. 18; v. 259; p. 469.
- Dross-mold. I. N. Heminger. No. 1,306,761; June 17; v. 263; p. 351.
- Drum. H. A. Bower. No. 1,326,842; Dec. 30; v. 269; p. 840.
- Drum. T. Wilson. No. 1,293,599; Feb. 4; v. 259; p. 145.
- Drum. M. A. Wintrich. No. 1,290,823; Jan. 7; v. 258; p. 195.
- Drum and cymbal beater. O. Dorn. No. 1,319,994; Oct. 28; v. 267; p. 554.
- Drum and cymbal beater. Bass-. F. D. Williams. No. 1,309,082; July 8; v. 264; p. 227.
- Drum attachment. Gas-. W. B. Prince. No. 1,293,917; Feb. 11; v. 259; p. 250.
- Drum. Barking-. A. A. Alfson. No. 1,320,437; Nov. 4; v. 268; p. 15.
- Drum. Barking-. H. W. Guettler. No. 1,311,225; July 29; v. 264; p. 722.
- Drum. Barking-. H. Guettler. No. 1,311,226; July 29; v. 264; p. 722.
- Drum. Barking-. E. Hutchins. No. 1,300,730; Apr. 15; v. 261; p. 524.
- Drum. Barking-. A. H. White. No. 1,300,536; Apr. 15; v. 261; p. 483.
- Drum. Barking-. A. H. White. No. 1,300,795; Apr. 15; v. 261; p. 538.
- Drum-brake. W. S. Hutchinson. No. 1,310,992; July 22; v. 264; p. 646.
- Drum-controller. T. E. Barnum. No. 1,322,996; Nov. 25; v. 268; p. 662.
- Drum cover and rain-protector. A. Goldberg. No. 1,321,029; Nov. 4; v. 268; p. 127.
- Drum. Differentially-gearred. F. S. Blackmarr. No. 1,316,936; Sept. 23; v. 266; p. 526.
- Drum. Friction counterpoised windlass-. T. H. Sorlien and O. A. Knudtson. No. 1,301,186; Apr. 22; v. 261; p. 657.
- Drum. Heating-. H. C. Janes. No. 1,324,157; Dec. 9; v. 269; p. 220.
- Drum. Resilient sandpaper-. M. L. Beal. No. 1,311,743; July 29; v. 264; p. 819.
- Drum. Winding-. G. W. Brown. No. 1,310,275; July 15; v. 264; p. 483.
- Drumhead-tightener. J. Vogelar. No. 1,312,771; Aug. 12; v. 265; p. 205.
- Dubbing-machine. D. L. Cobb and W. Moore. No. 1,306,249; June 10; v. 263; p. 225.
- Dumb-bell. A. Calvert. No. 1,316,683; Sept. 23; v. 266; p. 480.



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- Dumb-bells, Spring-grip. E. Sandow. No. 1,308,259; July 1; v. 264; p. 46.
- Dump-body. D. J. Lynch. No. 1,291,574; Jan. 14; v. 258; p. 395.
- Dump-box and frame. F. K. Ricks. No. 1,308,507; July 1; v. 264; p. 91.
- Dump-tripping device, Bottom-. G. E. Strom. No. 1,302,876; May 6; v. 262; p. 76.
- Dumping apparatus, Rotary. E. Ramsay. No. 1,325,536; Dec. 23; v. 269; p. 559.
- Dumping-body. A. C. Ballou. No. 1,300,810; Apr. 15; v. 261; p. 541.
- Dumping butter-mold. R. A. Simpson. No. 1,306,128; June 10; v. 263; p. 199.
- Dumping device. G. A. Hinricher. No. 1,291,517; Jan. 14; v. 258; p. 381.
- Duplex flush-tank. B. E. Linfoot. No. 1,323,703; Dec. 2; v. 269; p. 90.
- Duplicating composition. G. H. Kurtz. No. 1,321,760; Nov. 11; v. 268; p. 329.
- Duplicating device. O. Loewenbach. No. 1,322,314; Nov. 18; v. 268; p. 482.
- Duplicating-machine. J. B. West. No. 1,300,310. Apr. 15; v. 261; p. 435.
- Duplicating-machines, Device for truing up the rolls of. J. J. Flanagan. No. 1,317,487; Sept. 30; v. 266; p. 666.
- Duplicator. A. B. Saliger. No. 1,297,404; Mar. 18; v. 260; p. 420.
- Dust and valve cap. R. O. Williams. No. 1,307,947; June 24; v. 263; p. 601.
- Dust-arrestor and the like. A. Anderson. No. 1,303,008; May 6; v. 262; p. 101.
- Dust-arrestor, Hopper. W. M. Davidson. No. 1,322,546; Nov. 25; v. 268; p. 578.
- Dust-cap. A. L. Just. No. 1,322,905; Nov. 25; v. 268; p. 645.
- Dust-cap. P. W. Kautzman. No. 1,326,455; Dec. 30; v. 269; p. 767.
- Dust-cap. H. P. Kraft. No. 1,295,767; Feb. 25; v. 259; p. 737.
- Dust-cap. H. P. Kraft. No. 1,315,778; Sept. 9; v. 266; p. 246.
- Dust-cap. F. Nielsen. No. 1,309,215; July 8; v. 264; p. 251.
- Dust-cap. M. C. Schweinert. No. 1,302,441; Apr. 29; v. 261; p. 929.
- Dust-collector. J. J. Power. No. 1,308,961; July 8; v. 264; p. 203.
- Dust-collector. B. Ross. No. 1,316,924; Sept. 23; v. 266; p. 523.
- Dust-collector. W. J. Schmitt. No. 1,295,216; Feb. 25; v. 259; p. 610.
- Dust-collector. F. A. Wegner. No. 1,316,988; Sept. 23; v. 266; p. 535.
- Dust-collector. G. M. Wolpe. No. 1,315,066; Sept. 2; v. 266; p. 109.
- Dust-collector, Pneumatic. V. J. Johnson and E. G. Thoren. No. 1,303,819; May 13; v. 262; p. 278.
- Dust-excluder. J. W. Jordan. No. 1,298,347; Mar. 25; v. 260; p. 645.
- Dust-guard. L. Y. Williams. No. 1,318,425; Oct. 14; v. 267; p. 207.
- Dust-pan. M. H. Benedict. No. 1,311,802; July 29; v. 264; p. 830.
- Dust-preventer. W. K. Un. No. 1,322,375; Nov. 18; v. 268; p. 495.
- Dust-separator. C. E. Sargent. No. 1,302,716; May 6; v. 262; p. 44.
- Dust-separator. G. Tremblay and J. N. Dufour. No. 1,304,123; May 20; v. 262; p. 371.
- Dusting apparatus. A. W. Guthat. No. 1,298,933; Apr. 1; v. 261; p. 73.
- Dusting-machine. B. L. Weaver. No. 1,310,815; July 22; v. 264; p. 614.
- Dustpan. A. F. Kelley. No. 1,315,310; Sept. 9; v. 266; p. 163.
- Dye and dyeing. J. A. Nieuwland. No. 1,326,367; Dec. 30; v. 269; p. 750.
- Dye and making same, Green sulfur. C. E. Andrews. No. 1,314,929; Sept. 2; v. 266; p. 83.
- Dye and producing same, Universal gray. C. C. Huffman. No. 1,315,961; Sept. 16; v. 266; p. 296.
- Dye, Cymene. C. E. Andrews. No. 1,314,922; Sept. 2; v. 266; p. 82.
- Dye from filter-cakes of sugar-juice, Manufacturing sulfid. H. Nagashima. No. 1,308,552; July 1; v. 264; p. 99.
- Dye from solution, Recovery of. E. J. Wall. No. 1,297,046; Mar. 11; v. 260; p. 314.
- Dye recovery. E. J. Wall. No. 1,303,426; May 13; v. 262; p. 206.
- Dye, Sulfur. C. Starobinetz. No. 1,318,022; Oct. 7; v. 267; p. 69.
- Dyes and making same, Dimethyl-diisopropyl-benzidin azo. C. E. Andrews. No. 1,314,926; Sept. 2; v. 266; p. 83.
- Dyes and making same, Sulfur. C. E. Andrews. No. 1,314,928; Sept. 2; v. 266; p. 83.
- Dyes, Blue tetrakisazo. J. Dedichen. No. 1,319,852; Oct. 28; v. 267; p. 528.
- Dyes, Manufacture of sulfur. B. F. Halvorsen and C. Hørbye. No. 1,310,751; July 22; v. 264; p. 602.
- Dyes, Producing coal-tar. E. D. Kendall. No. 1,326,665; Dec. 30; v. 269; p. 806.
- Dyes, Production of blue sulfur. O. Knecht. No. 1,302,671; May 6; v. 262; p. 36.
- Dyeing. C. O. Bolz. No. 1,321,973; Nov. 18; v. 268; p. 419.
- Dyeing. A. A. Gehrlein. No. 1,292,453; Jan. 28; v. 258; p. 661.
- Dyeing and like apparatus, Perforated beam for. T. Brandwood. No. 1,298,287; Mar. 25; v. 260; p. 634.
- Dyeing and the like apparatus. J. J. Tracy. No. 1,298,832; Apr. 1; v. 261; p. 50.
- Dyeing apparatus. W. J. Going. No. 1,295,155; Feb. 25; v. 259; p. 596.
- Dyeing, bleaching, or like treatment of cops. W. Resch. No. 1,317,220; Sept. 30; v. 266; p. 615.
- Dyeing composition. W. A. Ainsworth. No. 1,310,518; July 22; v. 264; p. 558.
- Dyeing fur-skins, Method and means for. H. C. Lubarsky. (Reissue.) No. 14,729; Sept. 23; v. 266; p. 567.
- Dyeing-machine. T. Allsop and W. W. Sibson. No. 1,300,233; Apr. 15; v. 261; p. 419.
- Dyeing-machine. H. M. Dudley. No. 1,301,920; Apr. 29; v. 261; p. 830.
- Dyeing-machine. M. Nagle. No. 1,293,514; Feb. 4; v. 259; p. 126.
- Dyeing machine, Fur-. M. Dickerson. No. 1,317,007; Sept. 23; v. 266; p. 539.
- Dyeing materials tan or brown. C. O. Bolz. No. 1,321,972; Nov. 18; v. 268; p. 419.
- Dyeing mordanted goods, Azodyestuffs. H. Fritzsche. No. 1,325,841; Dec. 23; v. 269; p. 616.
- Dyeing, Process and machine for preparing fiber for. T. E. Howorth. No. 1,322,695; Nov. 25; v. 268; p. 606.
- Dyeing stockings or the like, Machine for. F. Sikora. No. 1,301,184; Apr. 22; v. 261; p. 657.
- Dyeing yarn and the like. W. A. Ainsworth. No. 1,299,811; Apr. 8; v. 261; p. 301.
- Dyestuff. H. A. Frisch. No. 1,308,060; July 1; v. 264; p. 10.
- Dyestuff. H. A. Frisch. No. 1,323,263; Dec. 2; v. 269; p. 7.
- Dyestuff and making same, Cymene. C. E. Andrews. No. 1,314,921; Sept. 2; v. 266; p. 82.
- Dyestuff, Brown. W. B. Jones. No. 1,310,532; July 22; v. 264; p. 561.
- Dyestuffs and making same, Dimethyl-diisopropyl-benzidin azo. C. E. Andrews. No. 1,314,925; Sept. 2; v. 266; p. 83.
- Dyestuffs dyeing mordanted goods, Azo. H. Fritzsche. No. 1,316,781; Sept. 23; v. 266; p. 498.
- Dyestuffs, Manufacture of. J. S. Robeson. No. 1,316,742; Sept. 23; v. 266; p. 491.
- Dynamic optometer. C. E. H. Armbruster. No. 1,306,734; June 17; v. 263; p. 346.
- Dynamic optometer. C. E. H. Armbruster. No. 1,306,735; June 17; v. 263; p. 346.
- Dynamic optometer. C. E. H. Armbruster. No. 1,306,736; June 17; v. 263; p. 346.
- Dynamo. C. E. Pearson. No. 1,291,107; Jan. 14; v. 258; p. 288.
- Dynamo-casing. W. H. Hutchins. No. 1,306,695; June 17; v. 263; p. 339.
- Dynamo, Combined starter and lighting-. A. H. Midgley. No. 1,325,677; Dec. 23; v. 269; p. 585.
- Dynamo-electric machine. T. R. Du Bois. No. 1,318,853; Oct. 14; v. 267; p. 288.
- Dynamo-electric machine. G. M. Eaton. No. 1,318,734; Oct. 14; v. 267; p. 266.
- Dynamo-electric machine. E. Fornander. No. 1,318,741; Oct. 14; v. 267; p. 267.
- Dynamo-electric machine. R. E. Hellmund. No. 1,301,845; Apr. 29; v. 261; p. 815.
- Dynamo-electric machine. R. E. Hellmund and R. E. Ferris. No. 1,301,844; Apr. 29; v. 261; p. 815.
- Dynamo-electric machine. R. E. Hellmund and C. W. Starker. No. 1,305,102; May 27; v. 262; p. 595.
- Dynamo-electric machine. R. E. Hellmund and J. V. Dobson. No. 1,318,756; Oct. 14; v. 267; p. 270.
- Dynamo-electric machine. C. C. Kester and C. F. Gilchrist. No. 1,319,225; Oct. 21; v. 267; p. 386.
- Dynamo-electric machine. F. D. Newbury. No. 1,320,789; Nov. 4; v. 268; p. 81.
- Dynamo-electric machine. E. A. Watson. No. 1,319,543; Oct. 21; v. 267; p. 446.
- Dynamo-electric machine, Starting and lighting. W. A. Turbayne. No. 1,318,938; Oct. 14; v. 267; p. 305.
- Dynamo-electric machine, Variable-speed. A. H. Midgley. No. 1,307,099; June 17; v. 263; p. 413.
- Dynamo-electric machines, Coil-retaining device for. A. M. Dudley. No. 1,320,126; Oct. 28; v. 267; p. 578.
- Dynamo-electric machines, Coil-retaining device for. R. E. Hellmund and S. G. Nottage. No. 1,320,056; Oct. 28; v. 267; p. 566.
- Dynamo-electric machinery. L. J. Stephenson. No. 1,322,471; Nov. 18; v. 268; p. 613.
- Dynamo-frame. C. M. Tichenor. No. 1,317,335; Sept. 30; v. 266; p. 637.
- Dynamo, Ignition-. C. T. Mason. No. 1,325,257; Dec. 16; v. 269; p. 490.

- Dynamo-mounting. W. F. Bouché. No. 1,324,029; Dec. 9; v. 269; p. 196.
- Dynamo suspension. C. Hartmann. No. 1,302,037; Apr. 29; v. 261; p. 852.
- Dynamos, Tensioning device for car-. C. H. Quinn. No. 1,318,407; Oct. 14; v. 267; p. 204.
- Dynamometer. J. R. Fouch. No. 1,303,786; May 13; v. 262; p. 272.
- Dynamometer-brake. H. D. MacDonald. No. 1,316,100; Sept. 16; v. 266; p. 321.
- Ear air-douche. C. F. Gottfried. No. 1,323,466; Dec. 2; v. 269; p. 46.
- Ear and neck protector. B. A. Miller. No. 1,326,875; Dec. 30; v. 269; p. 846.
- Ear-closing device. G. Jäuregui. No. 1,296,964; Mar. 11; v. 260; p. 296.
- Ear-protector. F. E. Miller. No. 1,305,828; June 3; v. 263; p. 113.
- Ear-protector. G. J. Theis. No. 1,312,493; Aug. 5; v. 265; p. 120.
- Ear-ring. R. G. Gibbs and J. Atkinson. No. 1,324,808; Dec. 16; v. 269; p. 407.
- Ear-ring. A. Kassler. No. 1,304,986; May 27; v. 262; p. 573.
- Ear-ring. J. Pejchar. No. 1,296,552; Mar. 4; v. 260; p. 165.
- Ear-rings, Forming the ornamental bodies of. C. G. King. No. 1,324,826; Dec. 16; v. 269; p. 410.
- Ear-rings, Forming the ornamental bodies of. C. G. King. No. 1,324,827; Dec. 16; v. 269; p. 410.
- Ear-rings, Making ornamental bodies of. R. Gibbs and J. Atkinson. No. 1,324,807; Dec. 16; v. 269; p. 407.
- Ear-trumpet. H. Hamann. No. 1,302,036; Apr. 29; v. 261; p. 852.
- Earmark for stock. J. Patterson. No. 1,318,909; Oct. 14; v. 267; p. 300.
- Earth-boring and draw machine, Combined rotary. H. R. Nofitz and F. J. Schwimmer. No. 1,312,565; Aug. 12; v. 265; p. 165.
- Earth-drill bits, Mechanism for rotating. W. Nippert. No. 1,318,225; Oct. 7; v. 267; p. 109.
- Earthworking element, Rotary. H. O. Scranton. No. 1,325,416; Dec. 16; v. 269; p. 519.
- Earthworking implement. J. S. Edwards. No. 1,294,067; Feb. 11; v. 259; p. 236.
- Earthworking implements, Draft mechanism for. W. C. Rarig. No. 1,309,368; July 8; v. 264; p. 279.
- Earthworking-tools, Control means for. C. W. Robinson. No. 1,319,489; Oct. 21; v. 267; p. 436.
- Easel, Calendar-pad. E. L. Isaacs. No. 1,324,825; Dec. 16; v. 269; p. 410.
- Eaves-trough, Detachable. J. Schad. No. 1,313,742; Aug. 19; v. 265; p. 407.
- Eaves-trough hanger. A. J. Anderson. No. 1,313,044; Aug. 12; v. 265; p. 259.
- Eaves-trough strainer. E. Yordy. No. 1,290,470; Jan. 7; v. 258; p. 111.
- Edge-band machine. J. F. Gail. No. 1,297,340; Mar. 18; v. 260; p. 406.
- Edge-finishing machine. W. F. Packard. No. 1,317,452; Sept. 30; v. 266; p. 659.
- Edge-finishing strips of material, Machine for. F. W. Merrick. No. 1,323,371; Dec. 2; v. 269; p. 28.
- Edge-guide. A. H. De Voe. No. 1,313,275; Aug. 19; v. 265; p. 320.
- Edge-setting machine. O. R. Angell. No. 1,305,864; June 3; v. 263; p. 120.
- Edge-setting tools, Retaining member for. J. Cavanagh. No. 1,302,510; May 6; v. 262; p. 7.
- Edge-trimming machine. F. M. Furber. No. 1,319,765; Oct. 28; v. 267; p. 511.
- Edge-trimming machine. L. M. Peck. No. 1,300,642; Apr. 15; v. 261; p. 505.
- Edging-machine. A. A. Arnold. No. 1,302,494; May 6; v. 262; p. 3.
- Edging machine, Picot-. L. Onderdonk. No. 1,308,608; July 1; v. 264; p. 110.
- Educational and amusement device. T. J. Doyle. No. 1,321,292; Nov. 11; v. 268; p. 240.
- Educational appliance. S. C. Dobson. No. 1,315,478; Sept. 9; v. 266; p. 194.
- Educational appliance. A. H. Kennedy. No. 1,305,724; June 3; v. 263; p. 93.
- Educational appliance. A. T. McCluer. No. 1,291,045; Jan. 14; v. 258; p. 272.
- Educational appliance. M. Ochs. No. 1,322,261; Nov. 18; v. 268; p. 473.
- Educational appliance. C. P. Watson. No. 1,239,586; Feb. 4; v. 259; p. 142.
- Educational device. C. A. Evans. No. 1,305,449; June 3; v. 263; p. 41.
- Efficiency-meter. F. L. Martindale. No. 1,293,155; Feb. 4; v. 259; p. 42.
- Efficiency-recorder. M. H. Avram. No. 1,309,235; July 8; v. 264; p. 255.
- Egg and fruit carton. O. C. Fenlason. No. 1,307,660; June 24; v. 263; p. 547.
- Egg and fruit case, Collapsible. T. M. Byars. No. 1,320,312; Oct. 28; v. 267; p. 613.
- Egg-beater. F. R. Collins. No. 1,320,603; Nov. 4; v. 268; p. 46.
- Egg-boiler. A. B. Nurock. No. 1,323,543; Dec. 2; v. 269; p. 61.
- Egg-boiling apparatus. V. G. Becker. No. 1,301,997; Apr. 29; v. 261; p. 844.
- Egg-boiling timer. A. F. Kilbourne. No. 1,297,180; Mar. 11; v. 260; p. 342.
- Egg-box. B. F. Bailey. No. 1,324,760; Dec. 9; v. 269; p. 336.
- Egg-candler. J. R. Grant. No. 1,310,750; July 22; v. 264; p. 602.
- Egg-candling apparatus. C. J. and E. M. Bloom. No. 1,294,034; Feb. 11; v. 259; p. 278.
- Egg candling, handling, and sorting device. W. F. D. Ackermann. No. 1,305,861; June 3; v. 263; p. 119.
- Egg-carrier. M. de Ycaza. No. 1,312,238; Aug. 5; v. 265; p. 72.
- Egg-carrier. J. H. Henderson. No. 1,316,304; Sept. 16; v. 266; p. 359.
- Egg-carrier. G. H. Knostman. No. 1,324,828; Dec. 16; v. 269; p. 410.
- Egg-carrier. I. Lesem. No. 1,323,074; Nov. 25; v. 268; p. 677.
- Egg-carton. J. R. Harman. No. 1,321,740; Nov. 11; v. 268; p. 325.
- Egg-case. H. H. Kuentz. No. 1,318,500; Oct. 14; v. 267; p. 222.
- Egg-case. H. H. Kuentz. No. 1,320,069; Oct. 28; v. 267; p. 568.
- Egg-case. J. M. White. No. 1,324,708; Dec. 9; v. 269; p. 326.
- Egg-case, Collapsible. L. W. Chapman. No. 1,301,650; Apr. 22; v. 261; p. 746.
- Egg-case filler. W. D. Coil. No. 1,308,578; July 1; v. 264; p. 104.
- Egg-case fillers, Dividing board or flat for. G. W. Swift, Jr. No. 1,302,992; May 6; v. 262; p. 98.
- Egg-case flat. J. H. Carter. No. 1,293,331; Feb. 4; v. 259; p. 83.
- Egg-container. J. V. Hyland. No. 1,323,189; Nov. 25; v. 268; p. 700.
- Egg-container. M. C. Walter. No. 1,292,174; Jan. 21; v. 258; p. 574.
- Egg-cup. C. F. Bierbach. No. 1,310,112; July 15; v. 264; p. 453.
- Egg-filler. H. F. Schurmann. No. 1,312,502; Aug. 5; v. 265; p. 122.
- Egg-holder. P. L. Lazarus. No. 1,306,918; June 17; v. 263; p. 380.
- Egg-preserver. R. G. Fleming, Sr. No. 1,293,395; Feb. 4; v. 259; p. 98.
- Egg-serving tray. J. B. Risdon. No. 1,322,620; Nov. 25; v. 268; p. 593.
- Egg-shipping package. A. W. D. Weis. No. 1,293,589; Feb. 4; v. 259; p. 143.
- Egg-strap and fastener. E. S. Boardman. No. 1,304,532; May 27; v. 262; p. 490.
- Egg-tester. T. R. Austin. No. 1,301,086; Apr. 22; v. 261; p. 637.
- Egg-tester. G. Brander. No. 1,322,755; Nov. 25; v. 268; p. 617.
- Egg-timer. F. T. Adams. No. 1,324,871; Dec. 16; v. 269; p. 418.
- Egg-transferrer. J. A. Van Borkum. No. 1,306,290; June 10; v. 263; p. 232.
- Egg-treating machine. A. Martin and H. H. Doering. No. 1,312,337; Aug. 5; v. 265; p. 89.
- Egg-turner. R. R. Gullion. No. 1,311,814; July 29; v. 264; p. 832.
- Egg-turner. W. F. Jeans. No. 1,297,175; Mar. 11; v. 260; p. 341.
- Egg-turning device. D. Spirek. No. 1,308,686; July 1; v. 264; p. 124.
- Egg-turning device, Automatic. P. S. Martin. (Reissue.) No. 14,673; June 24; v. 263; p. 615.
- Eggs, cream, or the like, Whipper for. E. Johnson. No. 1,308,953; July 8; v. 264; p. 201.
- Eggs, Device for packing. K. Ohara. No. 1,301,161; Apr. 22; v. 261; p. 652.
- Eggs, Method and apparatus for preserving. E. M. Nichols. No. 1,302,955; May 6; v. 262; p. 91.
- Eggs, Implement for use in removing the contents of. J. B. Mars. No. 1,316,315; Sept. 16; v. 266; p. 361.
- Ejector. R. N. Ehrhart. No. 1,324,236; Dec. 9; v. 269; p. 235.
- Ejector apparatus. R. Suczek. No. 1,296,567; Mar. 4; v. 260; p. 168.
- Ejector, Fluid, semifluid, or plastic. J. R. Willis and R. J. Fisher. No. 1,325,386; Dec. 16; v. 269; p. 513.
- Ejector, Paste-. B. W. King. No. 1,311,354; July 29; v. 264; p. 746.
- Elastic fabric. C. Adams. No. 1,313,037; Aug. 12; v. 265; p. 257.
- Elastic garment-fastener. C. W. Kinsman. No. 1,307,010; June 17; v. 263; p. 397.
- Elastic wheel. S. C. Hatfield. No. 1,324,114; Dec. 9; v. 269; p. 212.
- Elastic wheel. E. Jacquemain and J. Kucharek. No. 1,323,060; Nov. 25; v. 263; p. 675.
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- Elbow, Impact. L. A. Griffin. No. 1,318,551; Oct. 14; v. 267; p. 231.
- Elbow or fitting. J. G. Goodhue. No. 1,293,409; Feb. 4; v. 259; p. 101.
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- Electric alternating currents, Arrangement in rectifiers for. J. F. G. P. Hartmann. No. 1,322,187; Nov. 18; v. 268; p. 458.
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- Electric and thermostatic indicator and alarm. L. J. Dahl and A. E. Allen. No. 1,297,326; Mar. 18; v. 260; p. 404.
- Electric apparatus, Vacuum. J. C. Pole. No. 1,307,455; June 24; v. 263; p. 511.
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- Electric-arc furnace. I. Rennerfelt. No. 1,294,830; Feb. 18; v. 259; p. 499.
- Electric-arc light. E. A. Sperry. No. 1,302,488; Apr. 29; v. 261; p. 937.
- Electric-arc lights, Carbon-holder for. R. C. Miller. No. 1,304,503; May 20; v. 262; p. 445.
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- Electric batteries, Machine for making bobbins for. A. Kipniss and M. P. Neumann. No. 1,318,882; Oct. 14; v. 267; p. 294.
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- Electric battery. R. C. Benner and H. F. French. No. 1,316,760; Sept. 23; v. 266; p. 494.
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- Electric battery. R. N. Chamberlain. No. 1,295,122; Feb. 25; v. 259; p. 589.
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- Electric boiler. O. E. Sarr. No. 1,309,697; July 15; v. 264; p. 378.
- Electric booster system. H. Y. Hall. No. 1,324,348; Dec. 9; v. 269; p. 257.
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- Electric brake system. N. Fallek. No. 1,295,020; Feb. 18; v. 259; p. 542.
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- Electric brazing-switch. P. F. Alzmann. No. 1,303,007; May 6; v. 262; p. 101.
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- Electric cables, Manufacture of. C. J. Beaver and E. A. Claremont. No. 1,305,247; June 3; v. 263; p. 4.
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- Electric cables, Sheath-coupling for. C. J. Beaver, F. W. Richards, and E. A. Claremont. No. 1,308,390; July 1; v. 264; p. 70.
- Electric ceiling-fixture. H. C. Adam. No. 1,291,701; Jan. 21; v. 258; p. 455.
- Electric cell. H. E. Evans. No. 1,322,486; Nov. 18; v. 268; p. 516.
- Electric cell. Primary. H. E. Evans. No. 1,310,695; July 22; v. 264; p. 591.
- Electric chimes. A. Wade. No. 1,322,379; Nov. 18; v. 268; p. 495.
- Electric circuit a falling electromotive-force characteristic, Method of and means for creating in a portion of an. P. C. Hewitt. No. 1,321,435; Nov. 11; v. 268; p. 268.
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- Electric circuit-closer, Pneumato-. J. T. Austin. No. 1,322,506; Nov. 25; v. 268; p. 571.
- Electric-circuit-closing device. A. J. Hill. No. 1,323,860; Dec. 2; v. 269; p. 119.
- Electric-circuit maker and breaker. C. Rasmussen. No. 1,312,208; Aug. 5; v. 265; p. 67.
- Electric-circuit protector. A. M. Curtis. No. 1,325,889; Dec. 23; v. 269; p. 624.
- Electric-circuit safety device. H. G. Dorsey. No. 1,291,443; Jan. 14; v. 258; p. 365.
- Electric-circuit switch. C. Bramming. No. 1,297,996; Mar. 25; v. 260; p. 571.
- Electric-circuit tester. H. R. Sjolander. No. 1,315,531; Sept. 9; v. 266; p. 203.
- Electric circuits, Apparatus for regulating. P. C. Hewitt. No. 1,321,434; Nov. 11; v. 268; p. 267.
- Electric circuits, Combined switch and connector for. C. Bramming. No. 1,311,260; July 29; v. 264; p. 729.
- Electric circuits, Connector for. C. Bramming. No. 1,315,203; Sept. 9; v. 266; p. 144.
- Electric circuits, Obtaining sparkless breaks of. T. F. Wall. No. 1,315,886; Sept. 9; v. 266; p. 267.
- Electric circuits, Protection device for. H. D. Arnold. (Reissue.) No. 14,752; Nov. 18; v. 268; p. 520.
- Electric circuits, Protective device for. C. H. Rippli. No. 1,292,651; Jan. 28; v. 258; p. 709.
- Electric circuits, Protective device for. L. N. Robinson. No. 1,296,558; Mar. 4; v. 260; p. 166.
- Electric circuits, Selective controlling apparatus for. H. V. Herman. No. 1,326,864; Dec. 30; v. 269; p. 844.
- Electric circuits, Time-switch for. L. C. Whitaker. No. 1,313,440; Aug. 19; v. 265; p. 350.
- Electric circuits, Variable-resistance regulator for. W. L. Bliss. No. 1,310,599; July 22; v. 264; p. 574.
- Electric-clock system. A. F. Poole. No. 1,310,372; July 15; v. 264; p. 500.
- Electric-clock system. A. F. Poole. No. 1,310,373; July 15; v. 264; p. 500.
- Electric-clock system. A. F. Poole. No. 1,310,374; July 15; v. 264; p. 501.
- Electric coffee-cooker, Automatically-controlled. J. F. Newsom. No. 1,318,168; Oct. 7; v. 267; p. 97.
- Electric conductor. E. D. Chaplin. No. 1,291,406; Jan. 14; v. 258; p. 356.
- Electric conductor and making same, Molded. J. P. A. McCoy. No. 1,299,846; Apr. 8; v. 261; p. 809.
- Electric-conductor support. D. G. Winchester. No. 1,314,724; Sept. 2; v. 266; p. 47.
- Electric conductors, Method of and means for supporting. P. H. Thomas. No. 1,326,307; Dec. 30; v. 269; p. 739.
- Electric conduit. W. Handley. No. 1,296,952; Mar. 11; v. 260; p. 293.
- Electric-conduit fitting. C. H. Bissell and E. G. Smith. No. 1,311,376; July 29; v. 264; p. 751.
- Electric connection. W. H. Brown. No. 1,298,879; Apr. 1; v. 261; p. 60.
- Electric connection. A. Casper. No. 1,317,548; Sept. 30; v. 266; p. 678.
- Electric connector. C. H. Fischer. No. 1,294,644; Feb. 18; v. 259; p. 456.
- Electric connector. F. J. Osius. No. 1,323,375; Dec. 2; v. 269; p. 29.
- Electric connector and switch. C. Bramming. No. 1,320,834; Nov. 4; v. 268; p. 89.
- Electric connector and switch, Combined. C. Bramming. No. 1,323,822; Dec. 2; v. 269; p. 113.
- Electric-contact-actuating mechanism and system employing the same, Acoustically-operated. A. C. Heap and A. B. Field. No. 1,310,568; July 22; v. 264; p. 568.
- Electric-contact device. A. C. E. Hojgaard. No. 1,315,306; Sept. 9; v. 266; p. 162.
- Electric controller. M. P. Holmes. No. 1,292,777; Jan. 28; v. 258; p. 738.
- Electric controller. C. E. Ogden. No. 1,316,320; Sept. 16; v. 266; p. 362.
- Electric controller. F. W. Smith, L. Larsen, and B. Pearson. No. 1,292,381; Jan. 21; v. 258; p. 623.
- Electric controller. H. F. Stratton. No. 1,305,950; June 3; v. 263; p. 137.
- Electric controller. H. F. Stratton. No. 1,305,951; June 3; v. 263; p. 137.
- Electric-controller support. J. R. Cook. No. 1,323,350; Dec. 2; v. 269; p. 24.
- Electric controlling apparatus. W. Schwagermann. No. 1,312,273; Aug. 5; v. 265; p. 78.
- Electric controlling device, Automatic. J. S. Gollan and O. C. Rohde. No. 1,319,065; Oct. 21; v. 267; p. 354.
- Electric controlling means. H. W. Leonard. No. 1,302,817; May 6; v. 262; p. 64.
- Electric controlling-switch. A. C. Magrath. No. 1,324,401; Dec. 9; v. 269; p. 267.
- Electric-current-changing means. C. J. Myers. No. 1,306,923; June 17; v. 263; p. 381.
- Electric-current collector. A. G. Taylor. No. 1,322,371; Nov. 18; v. 268; p. 494.
- Electric-current controller. L. Bradley. No. 1,317,774; Oct. 7; v. 267; p. 22.
- Electric-current-controlling device. E. H. Duke and J. D. Brown. No. 1,292,730; Jan. 28; v. 258; p. 728.

- Electric-current-controlling device. F. B. Little. No. 1,319,880; Oct. 28; v. 267; p. 533.
- Electric-current limiter. Y. Uchida. No. 1,311,027; July 22; v. 264; p. 652.
- Electric-current meter. C. A. Boddie. No. 1,303,241; May 13; v. 262; p. 174.
- Electric currents, Device for testing. C. F. Arnold. No. 1,322,157; Nov. 18; v. 268; p. 453.
- Electric currents, Energy-meter for alternating. C. Perdriat and A. Peloux. No. 1,291,110; Jan. 14; v. 258; p. 288.
- Electric distributing systems, Regulation of the voltage or current in alternating. G. J. van Swaay. No. 1,321,342; Nov. 11; v. 268; p. 250.
- Electric distribution system. S. B. Hess. No. 1,298,711; Apr. 1; v. 261; p. 21.
- Electric door-switch. A. E. Veigel. No. 1,326,380; Dec. 30; v. 269; p. 752.
- Electric drop-light. A. A. Winer. No. 1,313,773; Aug. 19; v. 265; p. 413.
- Electric-elevator control. D. C. Larson. No. 1,291,564; Jan. 14; v. 258; p. 391.
- Electric-energy-distributing system. C. H. Wordingham. No. 1,304,237; May 20; v. 262; p. 392.
- Electric energy, Method and means for controlling. H. W. Leonard. No. 1,298,974; Apr. 1; v. 261; p. 83.
- Electric fitting. J. O. Eis and E. J. Knauff. No. 1,301,546; Apr. 22; v. 261; p. 726.
- Electric-fitting connection. J. A. McKay. No. 1,307,869; June 24; v. 263; p. 586.
- Electric fixture. E. F. Mould. No. 1,298,770; Apr. 1; v. 261; p. 36.
- Electric-fixture-attaching means. F. D. Parmenter. No. 1,299,857; Apr. 8; v. 261; p. 311.
- Electric-fixture support. D. E. Worrell. No. 1,309,052; July 8; v. 264; p. 221.
- Electric-fixture support-coupling and electric connector therefor, Combined. I. H. Steven. No. 1,323,114; Nov. 25; v. 268; p. 685.
- Electric fixture-switch. H. J. Morey. No. 1,295,563; Feb. 25; v. 259; p. 691.
- Electric fixtures, Ball-and-socket joint for. A. W. Wellington. No. 1,297,703; Mar. 18; v. 260; p. 497.
- Electric fixtures, Socket-carrier for. H. V. Willman. No. 1,309,051; July 8; v. 264; p. 221.
- Electric flat-iron. W. Morgan. No. 1,290,289; Jan. 7; v. 258; p. 67.
- Electric fluid-heater. J. A. Paasche. No. 1,293,896; Feb. 11; v. 259; p. 245.
- Electric furnace. J. Bibby. No. 1,308,273; July 1; v. 264; p. 49.
- Electric furnace. W. K. Booth. No. 1,299,110; Apr. 1; v. 261; p. 113.
- Electric furnace. W. H. Bristol and M. J. Johnson. No. 1,323,576; Dec. 2; v. 269; p. 67.
- Electric furnace. C. A. Cadwell. No. 1,290,902; Jan. 14; v. 258; p. 239.
- Electric furnace. M. S. Clawson. No. 1,306,948; June 17; v. 263; p. 385.
- Electric furnace. O. A. Colby. No. 1,306,250; June 10; v. 263; p. 225.
- Electric furnace. O. A. Colby. No. 1,306,251; June 10; v. 263; p. 225.
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- Electric furnace. J. H. Gray. No. 1,313,890; Aug. 26; v. 265; p. 468.
- Electric furnace. H. A. Greaves and H. Etchells. No. 1,301,932; Apr. 29; v. 261; p. 832.
- Electric furnace. H. A. Greaves and H. Etchells. No. 1,302,788; May 6; v. 262; p. 58.
- Electric furnace. A. E. Greene. No. 1,297,149; Mar. 11; v. 260; p. 336.
- Electric furnace. I. Hechenbleikner. No. 1,310,079; July 15; v. 264; p. 447.
- Electric furnace. O. Hutchins. No. 1,310,341; July 15; v. 264; p. 494.
- Electric furnace. F. Jacoviello. No. 1,324,156; Dec. 9; v. 269; p. 220.
- Electric furnace. C. Masera. No. 1,320,884; Nov. 4; v. 268; p. 99.
- Electric furnace. P. de Miles. No. 1,317,863; Oct. 7; v. 267; p. 38.
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- Electric furnace. W. E. Moore. No. 1,304,350; May 20; v. 262; p. 415.
- Electric furnace. I. Rennerfelt. No. 1,305,167; May 27; v. 262; p. 607.
- Electric furnace. I. Rennerfelt. No. 1,313,834; Aug. 19; v. 265; p. 424.
- Electric furnace. F. von Schlegell and C. B. Fletcher. No. 1,294,837; Feb. 18; v. 259; p. 500.
- Electric furnace. F. T. Snyder. No. 1,325,539; Dec. 23; v. 269; p. 559.
- Electric furnace. F. Thornton, Jr., and O. A. Colby. No. 1,306,289; June 10; v. 263; p. 232.
- Electric furnace. H. G. Weidenthal. No. 1,304,425; May 20; v. 262; p. 430.
- Electric furnace and melting metals and smelting ores. P. and I. B. Wright. No. 1,296,896; Mar. 11; v. 260; p. 280.
- Electric furnace and operating same. J. R. Harbeck and E. G. Norton. No. 1,295,309; Feb. 25; v. 259; p. 631.
- Electric-furnace flexible connection. G. E. Cox. No. 1,292,716; Jan. 28; v. 258; p. 725.
- Electric furnace, Polyphase. M. Shoeld. No. 1,317,328; Sept. 30; v. 266; p. 636.
- Electric generating system. H. D. Morton. No. 1,317,935; Oct. 7; v. 267; p. 52.
- Electric-generator governor. E. E. Taubert. No. 1,316,466; Sept. 16; v. 266; p. 390.
- Electric-generator mounting. I. T. Swartz. No. 1,293,573; Feb. 4; v. 259; p. 139.
- Electric-generator set, Turbine-driven. L. C. Loewenstein. No. 1,302,060; Apr. 29; v. 261; p. 856.
- Electric-generator support. C. H. Quinn. No. 1,318,406; Oct. 14; v. 267; p. 203.
- Electric generators, Automatic cut-out for. H. E. Borger. No. 1,308,275; July 1; v. 264; p. 49.
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- Electric heater. P. F. Apfel. No. 1,294,597; Feb. 18; v. 259; p. 445.
- Electric heater. P. F. Apfel. No. 1,309,873; July 15; v. 264; p. 410.
- Electric heater. R. P. Barnstead. No. 1,324,002; Dec. 2; v. 269; p. 146.
- Electric heater. J. H. and S. M. Carmean. No. 1,313,258; Aug. 19; v. 265; p. 316.
- Electric heater. A. Harth. No. 1,307,198; June 17; v. 263; p. 430.
- Electric heater. A. Harth. No. 1,318,554; Oct. 14; v. 267; p. 232.
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- Electric heater. C. T. Johnson. No. 1,306,820; June 17; v. 263; p. 361.
- Electric heater. B. B. Kahn. No. 1,304,687; May 27; v. 262; p. 518.
- Electric heater. F. E. Karg. No. 1,316,161; Sept. 16; v. 266; p. 332.
- Electric heater. F. Kuhn and J. A. Hand. No. 1,307,556; June 24; v. 263; p. 529.
- Electric heater. A. Terry. No. 1,319,733; Oct. 28; v. 267; p. 505.
- Electric heater. E. Walder. No. 1,308,211; July 1; v. 264; p. 38.
- Electric heater and cooker. P. M. Spink. No. 1,293,964; Feb. 11; v. 259; p. 261.
- Electric heater for humidifiers. D. H. Young. No. 1,294,015; Feb. 11; v. 259; p. 273.
- Electric heater, Portable. C. Schoonmaker. No. 1,292,094; Jan. 21; v. 258; p. 555.
- Electric heaters, Guard for. R. G. Ledig and N. Gerson. No. 1,305,130; May 27; v. 262; p. 600.
- Electric heating and lighting apparatus. R. G. and R. C. Ledig and N. Gerson. No. 1,292,335; Jan. 21; v. 258; p. 612.
- Electric heating and melting furnace. V. Stoble. No. 1,305,177; May 27; v. 262; p. 609.
- Electric heating apparatus. A. D. Macpherson. No. 1,321,221; Nov. 11; v. 268; p. 226.
- Electric heating apparatus. J. P. Sunderland. No. 1,304,624; May 27; v. 262; p. 506.
- Electric heating apparatus. J. P. Sunderland. No. 1,304,626; May 27; v. 262; p. 506.
- Electric heating devices, Control for. G. H. Hill. No. 1,306,542; June 10; v. 263; p. 278.
- Electric humidifier. R. J. Patterson. No. 1,313,832; Aug. 19; v. 265; p. 424.
- Electric-igniter collar. B. R. Hillestad. No. 1,323,274; Dec. 2; v. 269; p. 10.
- Electric igniting device. A. W. Bell. No. 1,312,229; Aug. 5; v. 265; p. 70.
- Electric inductance apparatus. B. F. Gardner. No. 1,307,093; June 17; v. 263; p. 412.
- Electric induction-furnace. O. Brophy. No. 1,296,752; Mar. 11; v. 260; p. 247.
- Electric insulation. C. W. Kline and C. J. Baker. No. 1,323,191; Nov. 25; v. 268; p. 700.
- Electric interlocking systems, Protective device for. A. T. Carter. No. 1,313,879; Aug. 26; v. 265; p. 466.
- Electric iron. C. N. Lewis. No. 1,293,818; Feb. 11; v. 259; p. 227.
- Electric lawn-cutter. W. E. Voges. No. 1,323,337; Dec. 2; v. 269; p. 22.
- Electric-light bracket. G. C. Magness. No. 1,297,211; Mar. 11; v. 260; p. 349.
- Electric-light bracket and socket, Combined. W. W. Wesner. No. 1,294,986; Feb. 18; v. 259; p. 535.
- Electric-light-connection guard. A. J. Tidball. No. 1,297,608; Mar. 18; v. 260; p. 463.
- Electric-light cord and shade adjuster. C. H. Otis. No. 1,322,465; Nov. 18; v. 268; p. 512.
- Electric-light fixture. R. M. Beard. (Reissue.) No. 14,781; Dec. 30; v. 269; p. 851.
- Electric-light fixture. F. E. d'Humy. No. 1,326,393; Dec. 30; v. 269; p. 754.
- Electric-light fixture. H. O. Tomlinson. No. 1,320,809; Nov. 4; v. 268; p. 85.
- Electric-light fixture. M. S. Walker. No. 1,310,936; July 22; v. 264; p. 635.



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- Electric-light fixtures, Making cups or casings for. W. M. Horton. No. 1,298,717; Apr. 1; v. 261; p. 22.
- Electric-light-globe holder. E. D. Pickering. No. 1,293,909; Feb. 11; v. 259; p. 248.
- Electric light, Incandescent. M. C. Caughrean. No. 1,323,963; Dec. 2; v. 269; p. 139.
- Electric light, Portable. B. Benedict. No. 1,315,457; Sept. 9; v. 266; p. 190.
- Electric light, Portable. J. T. Druvva. No. 1,320,846; Nov. 4; v. 268; p. 92.
- Electric light, Portable. W. D. Kahn. No. 1,315,556; Sept. 9; v. 266; p. 207.
- Electric light, Portable. H. G. Martin. No. 1,318,400; Oct. 14; v. 267; p. 202.
- Electric light, Portable. L. Prabar. No. 1,307,456; June 24; v. 263; p. 511.
- Electric light, Portable. G. W. Wacker. No. 1,312,220; Aug. 5; v. 265; p. 69.
- Electric light, Portable. G. W. Wacker. No. 1,312,221; Aug. 5; v. 265; p. 69.
- Electric-light socket. H. Melaun. No. 1,303,096; May 6; v. 262; p. 118.
- Electric-light support. G. A. Centolella. No. 1,310,323; July 15; v. 264; p. 491.
- Electric lights, Circuit-controller for portable. G. W. Wacker. No. 1,315,262; Sept. 9; v. 266; p. 154.
- Electric lights, Spacer for pendant. A. Powell. No. 1,307,923; June 24; v. 263; p. 596.
- Electric-lighting apparatus. C. Wirt. No. 1,314,295; Aug. 26; v. 265; p. 546.
- Electric-lighting apparatus. C. Wirt. No. 1,321,864; Nov. 18; v. 268; p. 399.
- Electric-lighting-assembly. A. H. Maranda. No. 1,310,763; July 22; v. 264; p. 604.
- Electric-lighting fixture. G. J. Dormandy. No. 1,300,827; Apr. 15; v. 261; p. 545.
- Electric-lighting fixture. G. J. Dormandy. No. 1,316,700; Sept. 23; v. 266; p. 483.
- Electric-lighting fixture. H. A. Framburg. No. 1,321,023; Nov. 4; v. 268; p. 126.
- Electric-lighting fixture. M. Herskovitz. No. 1,298,208; Mar. 25; v. 260; p. 617.
- Electric lighting system. D. E. Wescott. No. 1,301,206; Apr. 22; v. 261; p. 661.
- Electric-lighting system. Automatically-extinguishing. J. R. and H. C. Warden, Jr. No. 1,297,945; Mar. 18; v. 260; p. 535.
- Electric-lighting systems, Cut-out for. D. E. Wescott. No. 1,313,438; Aug. 19; v. 265; p. 350.
- Electric line conductors, Device for limiting the mechanical tension of. J. O. Cahen. No. 1,319,374; Oct. 21; v. 267; p. 413.
- Electric lines, Means for transferring freight to and from. B. F. Fitch. No. 1,310,986; July 22; v. 264; p. 645.
- Electric lines, System of boosting. A. Werner. No. 1,304,132; May 20; v. 262; p. 373.
- Electric machine and method of and apparatus for controlling the output thereof, Dynamo-. A. H. Darker. No. 1,313,272; Aug. 19; v. 265; p. 319.
- Electric machine, Dynamo-. A. L. Broomall. No. 1,300,243; Apr. 15; v. 261; p. 421.
- Electric machine, Dynamo-. A. J. Brown. No. 1,311,638; July 29; v. 264; p. 799.
- Electric machine, Dynamo-. F. Creedy. No. 1,291,424; Jan. 14; v. 258; p. 361.
- Electric machine, Dynamo-. J. L. Davis. No. 1,300,589; Apr. 15; v. 261; p. 494.
- Electric machine, Dynamo-. R. E. Ferris. No. 1,292,592; Jan. 28; v. 258; p. 695.
- Electric machine, Dynamo-. A. B. Field and I. L. Griffith. No. 1,291,459; Jan. 14; v. 258; p. 369.
- Electric machine, Dynamo-. V. A. Fynn. No. 1,304,958; May 27; v. 262; p. 568.
- Electric machine, Dynamo-. G. H. Garcelon, M. W. Bartmess, and J. L. Chantmerle. No. 1,300,373; Apr. 15; v. 261; p. 449.
- Electric machine, Dynamo-. R. E. Hellmund. No. 1,302,040; Apr. 29; v. 261; p. 853.
- Electric machine, Dynamo-. R. E. Hellmund. No. 1,311,510; July 29; v. 264; p. 776.
- Electric machine, Dynamo-. R. E. Hellmund. No. 1,326,340; Dec. 30; v. 269; p. 744.
- Electric machine, Dynamo-. B. S. Lamme. No. 1,316,798; Sept. 23; v. 266; p. 501.
- Electric machine, Dynamo-. F. W. Meyer. No. 1,298,757; Apr. 1; v. 261; p. 33.
- Electric machine, Dynamo-. W. B. Moses. No. 1,306,018; June 10; v. 263; p. 179.
- Electric machine, Dynamo-. P. A. H. Mossay. No. 1,320,781; Nov. 4; v. 268; p. 79.
- Electric machine, Dynamo-. W. H. Powell. No. 1,290,344; Jan. 7; v. 258; p. 80.
- Electric machine, Dynamo-. E. D. Priest. No. 1,306,625; June 10; v. 263; p. 293.
- Electric machine, Dynamo-. C. W. Starker. No. 1,300,302; Apr. 15; v. 261; p. 433.
- Electric machine, Dynamo-. C. W. Starker. No. 1,300,506; Apr. 15; v. 261; p. 477.
- Electric machine, Dynamo-. A. A. E. Sterzing. No. 1,299,053; Apr. 1; v. 261; p. 100.
- Electric machine, Dynamo-. N. W. Storer. No. 1,291,232; Jan. 14; v. 258; p. 315.
- Electric machine, Dynamo-. E. G. Tidlund. No. 1,291,263; Jan. 14; v. 258; p. 322.
- Electric machine, Dynamo-. W. A. Turbayne. No. 1,311,542; July 29; v. 264; p. 782.
- Electric machine, Dynamo-. W. A. Turbayne. No. 1,324,989; Dec. 16; v. 269; p. 439.
- Electric machine, Dynamo-. H. H. Wait. No. 1,313,431; Aug. 19; v. 265; p. 348.
- Electric-machine frame, Dynamo-. M. B. Lambert. No. 1,326,351; Dec. 30; v. 269; p. 746.
- Electric-machine frame, Dynamo-. C. W. Starker and M. B. Lambert. No. 1,326,302; Dec. 30; v. 269; p. 738.
- Electric machine, Magneto-. E. T. Shaw. No. 1,323,553; Dec. 2; v. 269; p. 63.
- Electric machine, Magneto-. B. J. Turner. No. 1,301,524; Apr. 22; v. 261; p. 722.
- Electric machines, Armature for dynamo-. C. W. Starker and G. L. S. Kronfeld. No. 1,300,508; Apr. 15; v. 261; p. 477.
- Electric machines, Arrangement for cooling high-speed dynamo-. M. Gruber. No. 1,316,790; Sept. 23; v. 266; p. 499.
- Electric machines, Axle-cap for dynamo-. C. W. Starker. No. 1,300,509; Apr. 15; v. 261; p. 477.
- Electric machines, Brush for dynamo-. H. R. Edgecomb. No. 1,323,970; Dec. 2; v. 269; p. 141.
- Electric machines, Brush-holder for dynamo-. B. W. Sweet. No. 1,307,028; June 17; v. 263; p. 401.
- Electric machines, Commutator-cylinder for dynamo-. G. M. Eaton. No. 1,292,590; Jan. 28; v. 258; p. 695.
- Electric machines, Commutator-cylinder for dynamo-. R. E. Hellmund. No. 1,293,770; Feb. 11; v. 259; p. 216.
- Electric machines, Commutator-cylinder for dynamo-. W. W. Storer. No. 1,326,303; Dec. 30; v. 269; p. 738.
- Electric machines, Constructing armatures and the like for dynamo-. V. G. Apple. No. 1,315,936; Sept. 16; v. 266; p. 291.
- Electric machines, Core member for dynamo-. G. H. F. Holy. No. 1,305,604; June 3; v. 263; p. 73.
- Electric machines, Damping device for dynamo-. F. T. Hague. No. 1,298,695; Apr. 1; v. 261; p. 17.
- Electric machines, Equalizer for dynamo-. J. W. Pearson. No. 1,315,237; Sept. 9; v. 266; p. 150.
- Electric machines, Field-control system for dynamo-. R. E. Hellmund. No. 1,311,513; July 29; v. 264; p. 776.
- Electric machines, Field-controlling means for dynamo-. R. E. Hellmund. No. 1,315,957; Sept. 16; v. 266; p. 295.
- Electric machines, Frame for dynamo-. C. W. Starker and R. E. Hellmund. No. 1,306,563; June 10; v. 263; p. 281.
- Electric machines, Frame for dynamo-. C. W. Starker and A. R. Pribil. No. 1,306,564; June 10; v. 263; p. 282.
- Electric machines, Frame structure for dynamo-. C. W. Starker. No. 1,314,545; Sept. 2; v. 266; p. 13.
- Electric machines, Journal-box for. G. H. F. Holy. No. 1,323,281; Dec. 2; v. 269; p. 11.
- Electric machinery, Regulating means for dynamo-. D. Hall. No. 1,293,764; Feb. 11; v. 259; p. 214.
- Electric melting-furnace. J. D. Shipton. No. 1,313,746; Aug. 19; v. 265; p. 408.
- Electric meter. J. L. Axen. (Reissue.) No. 14,733; Oct. 7; v. 267; p. 131.
- Electric meter. E. J. Heltman. No. 1,301,434; Apr. 22; v. 261; p. 706.
- Electric meter. W. D. Le Baron. No. 1,315,781; Sept. 9; v. 266; p. 247.
- Electric meter. P. M. Lincoln. No. 1,305,227; May 27; v. 262; p. 620.
- Electric-meter box. J. V. Becka. No. 1,292,682; Jan. 28; v. 258; p. 717.
- Electric meters, Box for. J. V. Becka. (Reissue.) No. 14,677; July 1; v. 264; p. 136.
- Electric motor. M. Fogel and A. Ascher. No. 1,291,819; Jan. 21; v. 258; p. 484.
- Electric motor. E. V. Hagman. No. 1,301,050; Apr. 15; v. 261; p. 593.
- Electric motor. G. Rekers. No. 1,291,144; Jan. 14; v. 258; p. 295.
- Electric motor. R. E. Taylor. No. 1,309,159; July 8; v. 264; p. 241.
- Electric-motor casing. J. R. Cook. No. 1,325,232; Dec. 16; v. 269; p. 485.
- Electric-motor control. P. N. Jones and J. W. Welsh. No. 1,312,183; Aug. 5; v. 265; p. 62.
- Electric motor for small outputs. E. Volkers. No. 1,322,659; Nov. 25; v. 268; p. 600.
- Electric motor having improved side frames. H. Hentzell. No. 1,326,502; Dec. 30; v. 269; p. 775.
- Electric motor or dynamo. W. H. Scott. No. 1,295,613; Feb. 25; v. 259; p. 702.
- Electric motor-switch. J. R. Cook. No. 1,292,714; Jan. 28; v. 258; p. 724.
- Electric-motor system. C. Trettin. No. 1,310,458; July 22; v. 264; p. 547.
- Electric motors or dynamos, Connection with brushes for. W. H. Scott. No. 1,315,796; Sept. 9; v. 266; p. 250.

- Electric multiswitching, testing, and signaling system. O. Asmussen. No. 1,324,420; Dec. 9; v. 269; p. 271.
- Electric multiple switch. A. E. Francis. No. 1,306,885; June 17; v. 263; p. 374.
- Electric perforating and recording machine. G. H. Davis. No. 1,303,863; May 20; v. 262; p. 324.
- Electric plug and socket. F. W. Richter. No. 1,305,308; June 3; v. 263; p. 15.
- Electric plug and socket connection. W. Stewart. No. 1,303,609; May 13; v. 262; p. 239.
- Electric poster device, illuminated. A. M. and B. L. Dobson. No. 1,317,436; Sept. 30; v. 266; p. 656.
- Electric-power installations, Maximum-demand controller and load-indicator for. C. C. Gow. No. 1,314,471; Aug. 26; v. 265; p. 580.
- Electric pull-switch. E. H. Van Loon. No. 1,306,672; June 10; v. 263; p. 302.
- Electric railway-gate, Automatic. C. P. Wilkinson, R. L. Edsall, and S. Wilkinson. No. 1,306,508; June 10; v. 263; p. 272.
- Electric-range switch. G. W. Goodridge. No. 1,323,047; Nov. 25; v. 268; p. 672.
- Electric receptacle. M. R. Rodrigues. No. 1,314,218; Aug. 26; v. 265; p. 532.
- Electric reciprocating device. G. Johnston. No. 1,300,277; Apr. 15; v. 261; p. 428.
- Electric regulating resistance. E. A. E. Törnblom. No. 1,306,085; June 10; v. 263; p. 191.
- Electric regulation. J. L. Creveling. No. 1,293,352; Feb. 4; v. 259; p. 88.
- Electric regulation. J. L. Creveling. No. 1,293,720; Feb. 11; v. 259; p. 204.
- Electric regulation. J. L. Creveling. No. 1,301,231; Apr. 22; v. 261; p. 666.
- Electric regulation. J. L. Creveling. No. 1,303,776; May 13; v. 262; p. 270.
- Electric regulation. J. L. Creveling. No. 1,306,174; June 10; v. 263; p. 208.
- Electric regulation. J. L. Creveling. No. 1,308,983; July 8; v. 264; p. 207.
- Electric regulation. J. L. Creveling. No. 1,315,762; Sept. 9; v. 266; p. 243.
- Electric regulation system. M. Moskowitz. No. 1,291,598; Jan. 14; v. 258; p. 401.
- Electric regulator. J. Bijur. No. 1,304,522; May 20; v. 262; p. 449.
- Electric regulator. W. F. Bouché and C. Hartmann. No. 1,307,845; June 24; v. 263; p. 582.
- Electric regulator. A. W. Donop. No. 1,319,855; Oct. 28; v. 267; p. 528.
- Electric regulator. M. Moskowitz. No. 1,291,597; Jan. 14; v. 258; p. 400.
- Electric regulator. W. A. Turbayne. No. 1,320,994; Nov. 4; v. 268; p. 120.
- Electric regulator, Automatic. W. A. Turbayne. No. 1,325,597; Dec. 23; v. 269; p. 570.
- Electric regulators, Stop-charge for. W. A. Turbayne. No. 1,324,573; Dec. 9; v. 269; p. 300.
- Electric resistance element and alloy therefor. F. L. Driver, Jr. No. 1,321,294; Nov. 11; v. 268; p. 240.
- Electric-resistance furnace. E. F. Collins. No. 1,310,060; July 15; v. 264; p. 444.
- Electric resistor, Zigzag carbon. J. Thomson. No. 1,298,421; Mar. 25; v. 260; p. 661.
- Electric resistor, Zigzag carbon. J. Thomson. No. 1,299,265; Apr. 1; v. 261; p. 148.
- Electric resistor, Zigzag carbon. J. Thomson. No. 1,321,682; Nov. 11; v. 268; p. 314.
- Electric riveting. F. L. Dyer. No. 1,305,078; May 27; v. 262; p. 591.
- Electric riveting apparatus. F. P. Kobert. No. 1,309,638; July 15; v. 264; p. 367.
- Electric riveting apparatus. N. Macneale. No. 1,297,965; Mar. 18; v. 260; p. 539.
- Electric riveting apparatus. N. Macneale. No. 1,297,966; Mar. 18; v. 260; p. 540.
- Electric scale. W. A. Petersen. No. 1,302,085; Apr. 29; v. 261; p. 861.
- Electric separator. C. W. J. Hedberg. No. 1,297,159; Mar. 11; v. 260; p. 338.
- Electric service and meter-testing system. J. Sachs. No. 1,301,175; Apr. 22; v. 261; p. 655.
- Electric sign. E. M. Miller. No. 1,301,586; Apr. 22; v. 261; p. 733.
- Electric signal. W. H. Geiger. No. 1,310,414; July 22; v. 264; p. 540.
- Electric signaling system. S. B. Hess. No. 1,324,449; Dec. 9; v. 269; p. 277.
- Electric spot-light. J. F. Nikonow. No. 1,300,454; Apr. 15; v. 261; p. 465.
- Electric sterilizer. C. J. Koehler. No. 1,314,671; Sept. 2; v. 266; p. 38.
- Electric storage battery. W. Knoblock. No. 1,297,185; Mar. 11; v. 260; p. 344.
- Electric superheater. H. F. Struever. No. 1,317,401; Sept. 30; v. 266; p. 650.
- Electric supply-circuits, Disconnecting device for. C. H. Wordingham. No. 1,304,236; May 20; v. 262; p. 392.
- Electric switch. E. G. K. Anderson. No. 1,312,380; Aug. 5; v. 265; p. 98.
- Electric switch. W. A. Atwood. No. 1,323,810; Dec. 2; v. 269; p. 110.
- Electric switch. W. A. Atwood. No. 1,323,811; Dec. 2; v. 269; p. 110.
- Electric switch. E. O. Bennett. No. 1,294,862; Feb. 18; v. 259; p. 507.
- Electric switch. C. Bramming. No. 1,309,840; July 15; v. 264; p. 404.
- Electric switch. C. Bramming. No. 1,315,204; Sept. 9; v. 266; p. 144.
- Electric switch. C. Bramming. No. 1,326,178; Dec. 30; v. 269; p. 714.
- Electric switch. G. A. Burnham. No. 1,290,899; Jan. 14; v. 258; p. 238.
- Electric switch. G. A. Burnham. No. 1,307,848; June 24; v. 263; p. 582.
- Electric switch. G. A. Burnham. No. 1,312,777; Aug. 12; v. 265; p. 206.
- Electric switch. J. F. Cavanagh. No. 1,303,161; May 6; v. 262; p. 131.
- Electric switch. J. F. Cavanagh. No. 1,315,466; Sept. 9; v. 266; p. 192.
- Electric switch. F. W. Cole. No. 1,294,053; Feb. 11; v. 259; p. 283.
- Electric switch. W. F. Craddock. No. 1,300,126; Apr. 8; v. 261; p. 369.
- Electric switch. J. L. Creveling. No. 1,298,464; Mar. 25; v. 260; p. 671.
- Electric switch. O. L. Davis. No. 1,311,263; July 29; v. 264; p. 729.
- Electric switch. A. F. H. Davis. No. 1,315,182; Sept. 2; v. 266; p. 129.
- Electric switch. W. W. Dryden. No. 1,320,677; Nov. 4; v. 268; p. 59.
- Electric switch. A. E. Francis. No. 1,303,876; May 20; v. 262; p. 327.
- Electric switch. H. S. Freeman and F. Zenker. No. 1,315,599; Sept. 9; v. 266; p. 215.
- Electric switch. A. C. Gilbert. No. 1,307,094; June 17; v. 263; p. 412.
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- Electric switch. M. Guett. No. 1,292,598; Jan. 28; v. 258; p. 697.
- Electric switch. G. H. Hart. No. 1,297,348; Mar. 18; v. 260; p. 408.
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- Electric switch. E. B. Merriam. No. 1,306,551; June 10; v. 263; p. 279.
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- Electric switch. C. D. Platt. No. 1,323,407; Dec. 2; v. 269; p. 35.
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- Electric switch. J. Sachs. No. 1,292,081; Jan. 21; v. 258; p. 551.
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- Electrode, Tungsten. C. Pfanstiehl. No. 1,322,610; Nov. 25; v. 268; p. 591.
- Electrode, Welding-. C. C. Carpenter. No. 1,324,227; Dec. 9; v. 269; p. 233.
- Electrodes, Electric-arc perforating, cutting, or reducing. C. J. Holslag. No. 1,321,309; Nov. 11; v. 268; p. 243.
- Electrodes, Means for automatically cleaning and cooling spark-plug. G. S. Rider. No. 1,322,346; Nov. 18; v. 268; p. 489.
- Electrodes, Production of. W. K. Page. No. 1,302,959; May 6; v. 262; p. 91.
- Electrodes, Reinforced joint for carbon. W. P. Bidelman. No. 1,304,444; May 20; v. 262; p. 434.
- Electrofluid-pressure brake. W. V. Turner. No. 1,297,514; Mar. 18; v. 260; p. 443.
- Electrolysis. H. I. Allen. No. 1,303,226; May 13; v. 262; p. 171.
- Electrolysis, Conducting. E. A. Le Sueur. No. 1,300,420; Apr. 15; v. 261; p. 458.
- Electrolysis of fused electrolytes. H. C. M. Ingeberg. No. 1,299,947; Apr. 8; v. 261; p. 330.
- Electrolysis of solutions. V. Gruner. No. 1,311,506; July 29; v. 264; p. 775.
- Electrolyte for electrolytic condensers. J. Siepian. No. 1,326,297; Dec. 30; v. 269; p. 737.
- Electrolytes for electrical etching, Composition for. J. H. Weeks. No. 1,291,310; Jan. 14; v. 258; p. 333.
- Electrolytes for electrical etching, Composition for. J. H. Weeks. No. 1,314,821; Sept. 2; v. 266; p. 68.
- Electrolytes for electrical etching, Composition for. J. H. Weeks. No. 1,314,839; Sept. 2; v. 266; p. 68.
- Electrolytes for electrical etching, Composition for. J. H. Weeks. No. 1,314,840; Sept. 2; v. 266; p. 68.
- Electrolytes for electrical etching, Composition for. J. H. Weeks. No. 1,314,842; Sept. 2; v. 266; p. 68.
- Electrolytic action, Machine for pointing metallic articles by. M. O. Anthony. No. 1,298,155; Mar. 25; v. 260; p. 605.
- Electrolytic apparatus. L. W. Chubb. No. 1,324,797; Dec. 16; v. 269; p. 405.
- Electrolytic apparatus. P. J. Kroll. No. 1,306,151; June 10; v. 263; p. 203.
- Electrolytic apparatus. E. A. Le Suerr. No. 1,319,715; Oct. 28; v. 267; p. 501.
- Electrolytic apparatus. A. J. MacDougall. No. 1,324,511; Dec. 9; v. 269; p. 289.
- Electrolytic baths, Handling anodes in. H. M. Stuart. No. 1,299,519; Apr. 8; v. 261; p. 233.
- Electrolytic cell. R. Q. Brown. No. 1,318,724; Oct. 14; v. 267; p. 264.
- Electrolytic cell. G. Charbonneaux. No. 1,296,046; Mar. 4; v. 260; p. 53.
- Electrolytic cell. L. W. Chubb. No. 1,305,443; June 3; v. 263; p. 40.
- Electrolytic cell. C. L. Fortescue. No. 1,305,458; June 3; v. 263; p. 43.
- Electrolytic cell. H. A. Hallum. No. 1,318,993; Oct. 4; v. 267; p. 316.
- Electrolytic cell. J. Harris. No. 1,297,157; Mar. 11; v. 260; p. 338.
- Electrolytic cell. C. W. Marsh. No. 1,302,824; May 6; v. 262; p. 65.
- Electrolytic cell. W. G. Michel. No. 1,309,148; July 8; v. 264; p. 239.
- Electrolytic cell. E. E. Niswonger and P. McDorman. No. 1,292,024; Jan. 21; v. 258; p. 537.
- Electrolytic cell. C. P. Townsend. No. 1,306,237; June 10; v. 263; p. 221.
- Electrolytic cell and electrode therefor. A. T. Stuart. No. 1,303,519; May 13; v. 262; p. 223.
- Electrolytic cells, Indicating device for. F. G. Wheeler. No. 1,312,494; Aug. 5; v. 265; p. 120.
- Electrolytic cells, Removing certain impurities from. H. K. Moore. No. 1,309,214; July 8; v. 264; p. 250.
- Electrolytic cyaniding process. W. A. Hussey. No. 1,324,352; Dec. 9; v. 269; p. 257.
- Electrolytic galvanizing-machine. C. G. Miller. No. 1,321,936; Nov. 18; v. 268; p. 412.
- Electrolytic method, apparatus, and product. M. M. Merritt. No. 1,322,494; Nov. 18; v. 268; p. 517.
- Electrolytic process. W. E. Greenawalt. No. 1,314,742; Sept. 2; v. 266; p. 50.
- Electrolytic process. K. S. Guiterman. No. 1,314,588; Sept. 2; v. 266; p. 22.
- Electrolytic process and anode. F. L. Antisell. No. 1,313,246; Aug. 19; v. 265; p. 314.
- Electrolyzer. J. H. Stover. No. 1,312,756; Aug. 12; v. 265; p. 201.
- Electromagnet. O. R. Blumberg and B. D. Horton. No. 1,320,598; Nov. 4; v. 268; p. 45.
- Electromagnet. O. M. Glunt. No. 1,291,831; Jan. 21; v. 258; p. 487.
- Electromagnet. C. H. Rippl. No. 1,292,650; Jan. 28; v. 258; p. 709.
- Electromagnet. E. Schwartz. No. 1,297,919; Mar. 18; v. 260; p. 529.
- Electromagnet. A. Simon. No. 1,325,048; Dec. 16; v. 269; p. 450.
- Electromagnet. A. Simon. No. 1,325,049; Dec. 16; v. 269; p. 450.
- Electromagnets, Making. P. Hamm. No. 1,315,365; Sept. 9; v. 266; p. 173.
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- Electromagnetic circuit-interrupter. H. O. Putt. No. 1,302,847; May 6; v. 262; p. 70.
- Electromagnetic coil. K. S. Johnson. No. 1,297,858; Mar. 18; v. 260; p. 516.
- Electromagnetic contractor. R. I. Wright. No. 1,310,269; July 15; v. 264; p. 482.
- Electromagnetic current-limiter. G. Trygve. No. 1,302,916; May 6; v. 262; p. 83.
- Electromagnetic device. C. R. Beall. No. 1,302,284; Apr. 29; v. 261; p. 897.
- Electromagnetic device. H. R. Canfield. No. 1,293,698; Feb. 11; v. 259; p. 199.
- Electromagnetic device. F. T. Casper. No. 1,313,878; Aug. 26; v. 265; p. 466.
- Electromagnetic device. G. W. Elmen. No. 1,301,412; Apr. 22; v. 261; p. 702.
- Electromagnetic device. T. T. King. No. 1,315,777; Sept. 9; v. 266; p. 246.
- Electromagnetic device. R. C. Leake. No. 1,299,965; Apr. 8; v. 261; p. 334.
- Electromagnetic device. R. C. Leake. No. 1,320,247; Oct. 28; v. 267; p. 601.
- Electromagnetic device. D. D. Miller. No. 1,292,003; Jan. 21; v. 258; p. 532.
- Electromagnetic devices, Method and apparatus for adjusting armatures of. C. O. Harrington. No. 1,308,585; July 1; v. 264; p. 105.
- Electromagnetic instrument, Alternating-current. H. K. Beasley. No. 1,324,536; Dec. 9; v. 269; p. 294.
- Electromagnetic mechanism. J. L. Dinsmoor. No. 1,293,052; Feb. 4; v. 259; p. 19.
- Electromagnetic overload device. C. H. Rippl. No. 1,305,937; June 3; v. 263; p. 134.
- Electromagnetic power-transmitting apparatus. A. H. Neuland. No. 1,298,375; Mar. 25; v. 260; p. 651.
- Electromagnetic signaling device. C. J. Erickson. No. 1,293,387; Feb. 4; v. 259; p. 96.
- Electromagnetic switch. E. J. Murphy. No. 1,306,555; June 10; v. 263; p. 280.
- Electromagnetic switch. P. H. Zimmer. No. 1,306,874; June 17; v. 263; p. 372.

- Electromagnetic transmission. A. H. Neuland. No. 1,298,376; Mar. 25; v. 260; p. 651.
- Electromagnetism. J. N. Gilbert. No. 1,323,747; Dec. 2; v. 269; p. 98.
- Electromechanical brake apparatus. E. L. Gale, Jr. No. 1,304,870; May 27; v. 262; p. 552.
- Electromechanical motor. G. A. De Guire. No. 1,296,634; Mar. 11; v. 260; p. 219.
- Electromechanical motor. G. A. De Guire. No. 1,296,635; Mar. 11; v. 260; p. 220.
- Electromechanical registering and resetting mechanism. C. N. Cahusac. No. 1,313,066; Aug. 12; v. 265; p. 263.
- Electroplating. M. F. Davoran. No. 1,318,053; Oct. 7; v. 267; p. 75.
- Electroplating and electrocleaning apparatus. A. Ness. No. 1,326,891; Dec. 30; v. 269; p. 849.
- Electroplating apparatus. M. F. Davoran. No. 1,318,054; Oct. 7; v. 267; p. 75.
- Electroplating apparatus. J. Giuliana. No. 1,291,830; Jan. 21; v. 258; p. 487.
- Electroplating apparatus. G. A. Lutz. No. 1,315,785; Sept. 9; v. 266; p. 247.
- Electroplating apparatus. D. A. Metz. No. 1,315,029; Sept. 2; v. 266; p. 102.
- Electroplating apparatus. G. T. and K. T. Pottshoff. No. 1,319,029; Oct. 14; v. 267; p. 323.
- Electroplating apparatus. H. O. Schuessler. No. 1,299,624; Apr. 8; v. 261; p. 257.
- Electroplating-generator brush-connector. J. J. Flynn. No. 1,296,941; Mar. 11; v. 260; p. 291.
- Electropneumatic brake. W. V. Turner. No. 1,297,422; Mar. 18; v. 260; p. 423.
- Electropneumatic brake. W. V. Turner. No. 1,297,511; Mar. 18; v. 260; p. 442.
- Electropneumatic brake. W. V. Turner. No. 1,299,269; Apr. 1; v. 261; p. 149.
- Electropneumatic brake. W. V. Turner. No. 1,313,030; Aug. 12; v. 265; p. 256.
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- Electropneumatic brake. W. V. Turner. No. 1,318,243; Oct. 7; v. 267; p. 112.
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- Electrotherapeutic apparatus. J. H. Eastman. No. 1,317,277; Sept. 30; v. 266; p. 626.
- Electrotherapeutic apparatus. J. H. Eastman. No. 1,317,278; Sept. 30; v. 266; p. 626.
- Electrotherapeutic apparatus. H. M. Sheeks and F. W. Stein. No. 1,313,957; Aug. 26; v. 265; p. 482.
- Electrotherapeutic device. W. A. D. Evans. No. 1,303,273; May 13; v. 262; p. 179.
- Electrotherapeutic device. W. A. D. Evans. No. 1,303,274; May 13; v. 262; p. 179.
- Electrothermal device. H. Hertzberg. No. 1,292,773; Jan. 28; v. 258; p. 737.
- Electrothermic furnace for therapeutic purposes. T. Lidberg. No. 1,295,045; Feb. 18; v. 259; p. 547.
- Electrotype-coating machine. L. S. Freed. No. 1,319,327; Oct. 21; v. 267; p. 405.
- Element for constructional purposes. P. Goiffon. No. 1,298,927; Apr. 1; v. 261; p. 71.
- Elements, Producing pure. E. Weintraub. No. 1,306,568; June 10; v. 263; p. 282.
- Elevated carrier. J. F. Smiley. No. 1,311,018; July 22; v. 264; p. 651.
- Elevated-carrier hoisting device. A. W. Knutson. No. 1,296,814; Mar. 11; v. 260; p. 260.
- Elevating and ballasting machine, Track. J. E. Tobin. No. 1,313,353; Aug. 19; v. 265; p. 334.
- Elevating fluids by compressed air. H. T. Abrams. No. 1,302,268; Apr. 29; v. 261; p. 895.
- Elevating-horse, Semitrailer. J. B. Olds. No. 1,308,764; July 8; v. 264; p. 167.
- Elevating tower and discharge-chute, Material. F. E. Arndt. No. 1,318,472; Oct. 14; v. 267; p. 216.
- Elevator: See—  
     Building-elevator. Portable elevator.  
     Corn-elevator. Safety-elevator.  
     Grain-elevator. Straight-lift elevator.  
     Electrically-controlled elevator. Water-elevator.  
     Package-elevator. Well-elevator.
- Elevator. W. O. Borchardt. No. 1,297,992; Mar. 25; v. 260; p. 571.
- Elevator. E. P. Collins. No. 1,311,262; July 29; v. 264; p. 729.
- Elevator. D. H. Heindel. No. 1,318,556; Oct. 14; v. 267; p. 232.
- Elevator. J. R. Jackson, Jr. No. 1,291,530; Jan. 14; v. 258; p. 385.
- Elevator. J. A. Linn. No. 1,302,059; Apr. 29; v. 261; p. 856.
- Elevator. L. I. Ziegler. No. 1,306,509; June 10; v. 263; p. 272.
- Elevator attachment. A. G. Lebel. No. 1,303,685; May 13; v. 262; p. 253.
- Elevator-car-controlling mechanism. A. W. Hubers. No. 1,302,557; May 6; v. 262; p. 14.
- Elevator-cars and mine-cages, Safety device for. J. Hoffer. No. 1,324,451; Dec. 9; v. 269; p. 277.
- Elevator-cars and the like, Controlling device for. E. Wyde and C. A. Reiners. No. 1,317,062; Sept. 23; v. 266; p. 549.
- Elevator-cars, Controlling mechanism for. B. Wexler. No. 1,314,552; Sept. 2; v. 266; p. 14.
- Elevator control. E. F. Banfield. No. 1,293,668; Feb. 11; v. 259; p. 192.
- Elevator-cup. J. A. Gerwen. No. 1,295,154; Feb. 25; v. 259; p. 596.
- Elevator-door. B. Wexler. No. 1,295,655; Feb. 25; v. 259; p. 712.
- Elevator-door-actuating mechanism. S. Eversen. No. 1,313,591; Aug. 19; v. 265; p. 379.
- Elevator-door and operating mechanism therefor. G. Alfano. No. 1,321,697; Nov. 11; v. 268; p. 316.
- Elevator-door closer. J. M. Graham. No. 1,309,130; July 8; v. 264; p. 236.
- Elevator-door closer, Automatic. M. E. Latham. No. 1,312,500; Aug. 5; v. 265; p. 121.
- Elevator-doors, Automatic device for controlling. G. Alfano. No. 1,321,698; Nov. 11; v. 268; p. 316.
- Elevator-doors, Latch for. B. Wexler. No. 1,314,551; Sept. 2; v. 266; p. 14.
- Elevator for corn, &c. J. H. Gilman. No. 1,303,552; May 13; v. 262; p. 229.
- Elevator-governor. O. F. Shepard. No. 1,291,195; Jan. 14; v. 258; p. 307.
- Elevator interlocking device. F. C. Holberg, Jr. No. 1,298,948; Apr. 1; v. 261; p. 76.
- Elevator-lock. W. T. Dunford. No. 1,291,798; Jan. 21; v. 258; p. 479.
- Elevator platform, Hod. C. W. Anderson. No. 1,326,896; Dec. 30; v. 269; p. 850.
- Elevator safety and other devices, Safety-clutch for. R. C. Smith. No. 1,302,601; May 6; v. 262; p. 22.
- Elevator safety apparatus. J. Mutton. No. 1,304,798; May 27; v. 262; p. 539.
- Elevator safety appliance. W. F. Mahony. No. 1,319,598; Oct. 21; v. 267; p. 456.
- Elevator safety appliance. E. Turgeon. No. 1,314,228; Aug. 26; v. 265; p. 533.
- Elevator safety device. D. Evangelista. No. 1,301,924; Apr. 29; v. 261; p. 831.
- Elevator safety device. D. Evangelista, B. Dugo, and A. Cignarella. No. 1,291,815; Jan. 21; v. 258; p. 483.
- Elevator safety device, Automatic. C. W. Wheeler. No. 1,310,224; July 15; v. 264; p. 474.
- Elevator-shaft door. B. Wexler. (Reissue). No. 14,637; Apr. 15; v. 261; p. 603.
- Elevator-shaft doors, Safety device for sidewalk. G. G. Laureys. No. 1,321,219; Nov. 11; v. 268; p. 226.
- Elevator-shafts, Door for. A. Rush. No. 1,315,795; Sept. 9; v. 266; p. 250.
- Elevator signal system. R. H. Gaylord. No. 1,322,895; Nov. 25; v. 268; p. 643.
- Elevator signaling system, Wireless. F. S. McCullough. No. 1,318,165; Oct. 7; v. 267; p. 96.
- Elevator system, Safety. W. T. Dunford. No. 1,293,737; Feb. 11; v. 259; p. 207.
- Elevators and other devices, Controlling apparatus for. J. W. McSherry. No. 1,309,648; July 15; v. 264; p. 369.
- Elevators, Apparatus for operating and interlocking the landing and cage gates of. E. Chaudoir. No. 1,326,440; Dec. 30; v. 269; p. 763.
- Elevators, Automatic safety device for employees'. M. D. Lemaster. No. 1,318,211; Oct. 7; v. 267; p. 105.
- Elevators, Control mechanism for hydraulic. A. B. Rover. No. 1,347,756; June 24; v. 263; p. 565.
- Elevators, Emergency safety-brake for. J. A. Durst. No. 1,303,271; May 13; v. 262; p. 179.
- Elevators, Grain-measure for threshing-machine. F. V. Albright. No. 1,325,602; Dec. 23; v. 269; p. 571.
- Elevators, Safety-brake for. J. Curry. No. 1,311,050; July 22; v. 264; p. 657.
- Elevators, Safety-catch for. J. E. Mitchell. No. 1,316,498; Sept. 16; v. 266; p. 396.
- Elevators, Safety device for. N. Kohler. No. 1,310,993; July 22; v. 264; p. 646.
- Elevators, Stop-arm for hod. C. W. Anderson. No. 1,321,779; Nov. 11; v. 268; p. 332.
- Ellipsograph. J. McNeil. No. 1,304,494; May 20; v. 262; p. 443.
- Embalmer's chin-rest. E. A. Brady. No. 1,299,670; Apr. 8; v. 261; p. 269.
- Embalming process. T. B. Barnes. No. 1,318,957; Oct. 14; v. 267; p. 309.
- Embalming table and tank, Combined. G. Evans. No. 1,315,712; Sept. 9; v. 266; p. 234.
- Embossing and printing machine. B. R. Corley and R. Turner. No. 1,299,133; Apr. 1; v. 261; p. 118.
- Embossing-die. C. A. Stickney. No. 1,299,518; Apr. 8; v. 261; p. 233.
- Embroidering-machine. I. Diem-Beutler. No. 1,299,145; Apr. 1; v. 261; p. 120.
- Embroidering-machine punch. C. W. Wetter. No. 1,320,948; Nov. 4; v. 268; p. 111.
- Embroidering-machines, Trimming-supply-controlling device for. W. Myers. No. 1,325,034; Dec. 16; v. 269; p. 447.
- Embroidering-machines, Universal-feed for. W. Myers. No. 1,325,033; Dec. 16; v. 269; p. 447.



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- Embroidery. J. M. Reis. No. 1,314,213; Aug. 26; v. 265; p. 530.
- Embroidery and similar work, Needle for hand. G. V. Pade and C. T. Neitzel. No. 1,309,601; July 8; v. 264; p. 323.
- Embroidery filler-form. D. A. St. Clair. No. 1,294,560; Feb. 18; v. 259; p. 436.
- Embroidery, Foundation for scalloped. C. Zoehrer. No. 1,316,010; Sept. 16; v. 266; p. 304.
- Embroidery-frame. T. D. Eisner. No. 1,310,392; July 15; v. 264; p. 504.
- Embroidery-frame. T. Okihara. No. 1,302,421; Apr. 29; v. 261; p. 925.
- Embroidery, Frame for the manufacture of. R. O. Trueb. No. 1,299,873; Apr. 8; v. 261; p. 815.
- Embroidery-frame support. T. D. Eisner. No. 1,295,140; Feb. 25; v. 259; p. 593.
- Embroidery-machine. W. Hueller and M. Krapp. No. 1,300,838; Apr. 15; v. 261; p. 547.
- Embroidery-machine. E. W. Keller. No. 1,323,066; Nov. 25; v. 268; p. 676.
- Embroidery-machine. W. N. Parkes. No. 1,305,927; June 3; v. 263; p. 132.
- Embroidery, Manufacture of. J. Nater. No. 1,315,148; Sept. 2; v. 266; p. 123.
- Embroidery-mount. A. Stern. No. 1,301,758; Apr. 22; v. 261; p. 768.
- Embroidery-ring. G. Boden. No. 1,318,721; Oct. 14; v. 267; p. 263.
- Embroidery table and frame with turnable rings, Combination. M. Frasca. No. 1,322,891; Nov. 25; v. 268; p. 643.
- Emergency-brake. F. J. Bosek. No. 1,304,254; May 20; v. 262; p. 396.
- Emergency-brake. J. J. Kellum and W. E. Heiddleston. No. 1,309,945; July 15; v. 264; p. 424.
- Emergency-brake. M. A. Stevens. No. 1,290,400; Jan. 7; v. 258; p. 93.
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- Emplacing process and apparatus. E. L. Wiegand. No. 1,312,657; Aug. 12; v. 265; p. 183.
- Emulser. C. Mortensen. No. 1,308,250; July 1; v. 264; p. 44.
- Emulsifying-machine. K. D. Smith. No. 1,316,115; Sept. 16; v. 266; p. 323.
- Emulsions, Making. J. A. De Cew. No. 1,317,617; Sept. 30; v. 266; p. 692.
- Emulsions, Method and apparatus for dehydrating. M. J. Trumble. No. 1,304,124; May 20; v. 262; p. 371.
- Enamel from the surface of ratan, &c., Removing natural. A. Frank-Philpison. No. 1,296,553; Mar. 4; v. 260; p. 165.
- Enamels and making, Clouding composition for. P. Eyer. No. 1,314,861; Sept. 2; v. 266; p. 71.
- Enameled ware, Manufacture of. R. D. Cooke. No. 1,316,018; Sept. 16; v. 266; p. 306.
- Enameled ware, Marking. W. J. Kohler. No. 1,290,580; Jan. 7; v. 258; p. 136.
- Enameling-furnace. A. J. Boland. No. 1,290,060; Jan. 7; v. 258; p. 11.
- End-board fastening. J. M. Totman. No. 1,317,337; Sept. 30; v. 266; p. 638.
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- End-facing machine. L. I. Yoemans. No. 1,309,387; July 8; v. 264; p. 282.
- End-gate. J. F. Derksen. No. 1,326,482; Dec. 30; v. 269; p. 771.
- End-gate. A. K. Flom. No. 1,311,644; July 29; v. 264; p. 800.
- End-gate. A. R. Miller. No. 1,305,920; June 3; v. 263; p. 130.
- End-gate. A. L. Nicholson. No. 1,301,299; Apr. 22; v. 261; p. 680.
- End-gate. T. J. Vaught. No. 1,326,233; Dec. 30; v. 269; p. 725.
- End-gate. C. Wellendorf. No. 1,305,426; June 3; v. 263; p. 37.
- End-gate. B. W. Whitworth. No. 1,323,343; Dec. 2; v. 269; p. 23.
- End-gate and scoop-board, Detachable combined. W. W. Hubbard. No. 1,294,665; Feb. 18; v. 259; p. 461.
- End-gate fastener. N. K. Nelson. No. 1,306,117; June 10; v. 263; p. 197.
- End-gate, Wagon. H. E. Reed. No. 1,303,390; May 13; v. 262; p. 199.
- End-lasting mechanism. M. Brock. No. 1,306,247; June 10; v. 263; p. 224.
- End-trimming machine. A. F. Donaldson. No. 1,302,532; May 6; v. 262; p. 10.
- Energy, Selective receiving system for radiant. F. K. Vreeland. No. 1,315,584; Sept. 9; v. 266; p. 212.
- Engaging support, Adjustably. C. E. Lloyd. No. 1,323,599; Dec. 2; v. 269; p. 70.
- Engine: See—
- Air-cooled engine.
- Air-cooled explosion-engine.
- Aircraft-engine.
- Automobile fire-engine.
- Beating-engine.
- Carding-engine.
- Coal-dust and liquid-fuel engine.
- Combustion-engine.
- Compressing-engine.
- Disk engine.
- Drilling-engine.
- Explosion-engine.
- Explosive-engine.
- Fluid-operated engine.
- Gas-engine.
- Gas and oil engine.
- Gasolene-engine.
- Governor-engine.
- Heat-engine.
- Hot-air engine.
- Hydrocarbon-engine.
- Internal-combustion engine.
- Internal-combustion rotary engine.
- Internal-combustion turbine-engine.
- Engine. J. G. Ambrose. No. 1,324,534; Dec. 9; v. 269; p. 293.
- Engine. E. J. Brown. No. 1,319,752; Oct. 28; v. 267; p. 508.
- Engine. H. H. Cable. No. 1,322,406; Nov. 18; v. 268; p. 501.
- Engine. T. A. Carlson. No. 1,312,234; Aug. 5; v. 265; p. 71.
- Engine. M. C. Cosgray. No. 1,299,554; Apr. 8; v. 261; p. 241.
- Engine. M. C. Cosgray. No. 1,299,555; Apr. 8; v. 261; p. 241.
- Engine. E. Dembowsky. No. 1,312,838; Aug. 12; v. 265; p. 218.
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- Engine. W. R. Fasey. No. 1,298,191; Mar. 25; v. 260; p. 613.
- Engine. S. J. Lukaszewski. No. 1,298,744; Apr. 1; v. 261; p. 29.
- Engine. L. Newell. No. 1,310,767; July 22; v. 264; p. 605.
- Engine. H. W. Parrish. No. 1,319,679; Oct. 21; v. 267; p. 472.
- Engine. C. E. Pratt. No. 1,306,717; June 17; v. 263; p. 343.
- Engine. L. M. Sheridan. No. 1,302,442; Apr. 29; v. 261; p. 929.
- Engine. C. J. Shuttleworth. No. 1,308,813; July 8; v. 264; p. 175.
- Engine. J. J. Walk. No. 1,304,129; May 29; v. 262; p. 372.
- Engine. M. L. Williams. No. 1,308,466; July 1; v. 264; p. 83.
- Engine. M. L. Williams. No. 1,322,517; Nov. 25; v. 268; p. 573.
- Engine. M. L. Williams. No. 1,323,210; Nov. 25; v. 268; p. 704.
- Engine. M. L. Williams and S. E. Witt. No. 1,298,429; Mar. 25; v. 260; p. 663.
- Engine accessories, Mounting for. A. G. Herreshoff. No. 1,317,703; Oct. 7; v. 267; p. 8.
- Engine-actuated alarm. E. Aufero. No. 1,296,603; Mar. 11; v. 260; p. 213.
- Engine and dynamo, Combined. M. C. Cosgray. No. 1,324,035; Dec. 9; v. 269; p. 197.
- Engine and radiator assembly. H. Ford. No. 1,312,476; Aug. 5; v. 265; p. 117.
- Engine attachment. J. E. Smith. No. 1,325,266; Dec. 16; v. 269; p. 492.
- Engine attachment. J. Swarthout. No. 1,296,018; Mar. 4; v. 260; p. 45.
- Engine attachment. C. O. Thornberry and C. G. Wolgast. No. 1,295,387; Feb. 25; v. 259; p. 649.
- Engine-bed mounting. H. Kleckler. No. 1,290,237; Jan. 7; v. 258; p. 54.
- Engine-braking, Method of and apparatus for. G. B. Reed. No. 1,300,016; Apr. 8; v. 261; p. 344.
- Engine connection. H. T. Krakau. No. 1,304,577; May 27; v. 262; p. 498.
- Engine control, Hoisting. W. J. Lilly. No. 1,314,675; Sept. 2; v. 266; p. 38.
- Engine controlling mechanism, Gas. J. E. Gilson. No. 1,308,061; July 1; v. 264; p. 10.
- Engine-cooler and vehicle-heater, Combined. M. N. Mikulic and A. W. Krause. No. 1,316,495; Sept. 16; v. 266; p. 395.
- Engine-cooling means, Auxiliary. A. N. Calkins. No. 1,301,784; Apr. 22; v. 261; p. 774.
- Engine-cooling system. T. B. Slate. No. 1,303,605; May 13; v. 262; p. 239.
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- Knight engine.
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- Motive-power engine.
- Multicylinder engine.
- Oil-engine.
- Percussive engine.
- Piston-engine.
- Punching-machine engine.
- Reversible four-cycle engine.
- Revoluble engine.
- Rotary engine.
- Rotary combustion-engine.
- Rotary explosive-engine.
- Rotary gas-engine.
- Rotary internal-combustion engine.
- Rotary steam-engine.
- Steam-engine.
- Towing-engine.
- Traction-engine.
- Turbine-engine.
- Two-cycle reciprocating engine.
- Two-stroke engine.
- Wave-engine.
- Winding-engine.

- Engine cylinder and crank-case construction. C. M. Mohler. No. 1,299,594; Apr. 8; v. 261; p. 251.
- Engine-cylinder-reboring machines, Feed mechanism for. R. E. Roseberry. No. 1,321,393; Nov. 11; v. 268; p. 260.
- Engine-cylinder support. G. A. Gilbertson. No. 1,294,787; Feb. 18; v. 259; p. 489.
- Engine-cylinders, Making jackets for. F. Siegel. No. 1,293,562; Feb. 4; v. 259; p. 137.
- Engine-cylinders, Portable machine for reboring. R. E. Roseberry. No. 1,315,580; Sept. 9; v. 266; p. 212.
- Engine-decarbonizer. F. C. Stekelberg. No. 1,299,805; Apr. 8; v. 261; p. 300.
- Engine drive-wheel. W. R. Garner. No. 1,313,178; Aug. 12; v. 265; p. 285.
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- Engine-fuel-feed device. W. W. Gore. No. 1,293,756; Feb. 11; v. 259; p. 212.
- Engine governing mechanism, Steam. A. E. Peters. No. 1,299,773; Apr. 8; v. 261; p. 293.
- Engine-house. J. R. Leighty and B. E. Ahlskog. No. 1,307,504; June 24; v. 263; p. 520.
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- Engine-lathe apron oiling system. F. B. Cockburn. No. 1,294,402; Feb. 18; v. 259; p. 399.
- Engine-lathes, Supplementary high-speed spindle for. E. N. Moor. No. 1,311,454; July 29; v. 264; p. 765.
- Engine lighter-bar, Beating. M. R. Rust. No. 1,304,604; May 27; v. 262; p. 503.
- Engine-lubricating device. L. F. Easton. No. 1,293,382; Feb. 4; v. 259; p. 95.
- Engine-lubricator. O. R. Gronkwist. No. 1,292,312; Jan. 21; v. 258; p. 606.
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- Engine or compressor. E. U. G. Reagan. No. 1,326,689; Dec. 30; v. 269; p. 810.
- Engine or motor. M. J. Burkell and L. P. Fosnot. No. 1,326,476; Dec. 30; v. 269; p. 770.
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- Engine-priming device. F. L. Shelor and F. C. Schofield. No. 1,300,659; Apr. 15; v. 261; p. 508.
- Engine reversing-gear, Steam. J. R. Snyder. No. 1,302,096; Apr. 29; v. 261; p. 863.
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- Engine-starter. G. Y. Lauchin. No. 1,298,063; Mar. 25; v. 260; p. 585.
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- Engines, Fuel-feed system for internal-combustion. F. H. Gibbs. No. 1,303,290; May 13; v. 262; p. 182.
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- Engines, Fuel-feeding device for internal-combustion. C. S. Burton. No. 1,296,363; Mar. 4; v. 260; p. 124.
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- Engines, Fuel-feeding device for internal-combustion. J. W. Hall. No. 1,290,182; Jan. 7; v. 258; p. 40.
- Engines, Fuel-feeding means for internal-combustion. P. Able. No. 1,290,029; Jan. 7; v. 258; p. 4.
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- Engines, Fuel-generator for explosive-. J. D. Saul. No. 1,292,653; Jan. 28; v. 258; p. 710.
- Engines, Fuel-heater for explosive-. G. H. Hayes. No. 1,307,124; June 17; v. 263; p. 418.
- Engines, Fuel-heater for internal-combustion. S. J. Lavender. No. 1,291,564; Jan. 14; v. 258; p. 392.
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- Engines, Fuel-supply apparatus for internal-combustion. C. F. L. King. No. 1,320,239; Oct. 28; v. 267; p. 599.
- Engines, Fuel-supply apparatus for internal-combustion. C. F. L. King. No. 1,320,240; Oct. 28; v. 267; p. 599.
- Engines, Fuel-supply apparatus for internal-combustion. C. F. L. King. No. 1,321,756; Nov. 11; v. 268; p. 328.

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- Engines, Fuel-supply system for internal-combustion. F. C. Mock. No. 1,315,231; Sept. 9; v. 266; p. 148.
- Engines, Fuel-supply system for internal-combustion. R. T. Stewart. No. 1,313,925; Aug. 26; v. 265; p. 475.
- Engines, Gage-holder for gasoline. C. E. Loetzer and C. C. West. No. 1,321,929; Nov. 18; v. 268; p. 411.
- Engines, Gas and spark lever for the control of motor-vehicle. E. Godlove. No. 1,303,653; May 13; v. 262; p. 247.
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- Engines, Gearing for internal-combustion. L. Coatalen and H. C. M. Stevens. No. 1,298,461; Mar. 25; v. 260; p. 670.
- Engines, Governing device for internal-combustion. G. Roos. No. 1,299,230; Apr. 1; v. 261; p. 139.
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- Engines, Governor for internal-combustion. J. B. Fisher. No. 1,304,672; May 27; v. 262; p. 515.
- Engines, Graphite-feeding device for. C. J. Bechtel. No. 1,319,037; Oct. 21; v. 267; p. 349.
- Engines, Heater for water-cooled. H. F. Phillips and H. V. Dean. No. 1,298,254; Mar. 25; v. 260; p. 627.
- Engines, Hot-plate apparatus for explosive. H. F. Shepherd. No. 1,317,900; Oct. 7; v. 267; p. 45.
- Engines, Humidifier for internal-combustion. W. S. Shawvan. No. 1,297,598; Mar. 18; v. 260; p. 460.
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- Engines, Ignition apparatus for internal-combustion. W. B. S. Whaley. No. 1,319,197; Oct. 21; v. 267; p. 380.
- Engines, Ignition apparatus for internal-combustion. L. Wolffsohn. No. 1,297,956; Mar. 18; v. 260; p. 537.
- Engines, Ignition device for internal-combustion. M. A. Codd. No. 1,297,102; Mar. 11; v. 260; p. 326.
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- Engines, Ignition mechanism for internal-combustion. H. F. Geist. No. 1,308,235; July 1; v. 264; p. 42.
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- Engines, Ignition system for internal-combustion. W. C. Brinton, Jr. No. 1,292,241; Jan. 21; v. 258; p. 591.
- Engines, Ignition system for internal-combustion. G. Midboe and C. C. Pittman. No. 1,315,736; Sept. 9; v. 266; p. 239.
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- Engines, Intake pipe or manifold for internal-combustion. P. A. C. Suau. No. 1,326,378; Dec. 30; v. 269; p. 752.
- Engines, Kerosene-vaporizer for internal-combustion. A. L. Lamar. No. 1,296,972; Mar. 11; v. 260; p. 297.
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- Engines, Liquid-fuel-supply system of internal-combustion. J. Higginson and H. Arundel. No. 1,311,695; July 29; v. 264; p. 810.
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- Envelop-machine. G. Ball. No. 1,312,248; Aug. 19; v. 265; p. 314.
- Envelop-machine. A. Novick. No. 1,291,089; Jan. 14; v. 258; p. 284.
- Envelop-machine. A. Novick. No. 1,298,776; Apr. 1; v. 261; p. 38.
- Envelop machinery. V. E. Haywood. No. 1,308,354; July 1; v. 264; p. 63.
- Envelop-making machine. H. Y. Armstrong. No. 1,325,311; Dec. 16; v. 269; p. 500.
- Envelop-making machine. J. Rengenstein. No. 1,298,093; Mar. 25; v. 260; p. 591.
- Envelop-making machines, Patch-box for. E. B. Berkowitz. No. 1,311,636; July 29; v. 264; p. 799.
- Envelop-moistener. S. Birnbaum. No. 1,297,784; Mar. 18; v. 260; p. 502.
- Envelop-moistener. J. B. Mullally. No. 1,313,723; Aug. 19; v. 265; p. 403.
- Envelop-opener. T. F. Connor. No. 1,302,514; May 6; v. 262; p. 7.
- Envelop-openers, Rotary cutter for. J. V. Washburne. No. 1,300,792; Apr. 15; v. 261; p. 537.
- Envelop-opening machine. J. L. McMillan. No. 1,317,804; Oct. 7; v. 267; p. 27.

- Envelop or file. E. L. Smith. No. 1,309,223; July 8; v. 264; p. 252.
- Enzymes, Producing an extract of proteolytic. T. Muto. No. 1,296,599; Mar. 4; v. 260; p. 175.
- Envelop, Safety-. C. C. Ferguson. No. 1,294,436; Feb. 18; v. 259; p. 409.
- Envelop, Safety-. M. A. Hirsch. No. 1,322,569; Nov. 25; v. 268; p. 583.
- Envelop, Safety-. S. Klotz. No. 1,307,447; June 24; v. 263; p. 510.
- Envelop, Safety-. A. Kramer. No. 1,295,527; Feb. 23; v. 259; p. 682.
- Envelop, Safety-. F. Marthay. No. 1,318,895; Oct. 14; v. 267; p. 297.
- Envelop sealing and opening machine. J. L. McMillan. No. 1,317,517; Sept. 30; v. 266; p. 672.
- Envelop-sealing and stamp-affixing mechanism. W. J. Balkwill. No. 1,324,489; Dec. 9; v. 269; p. 284.
- Envelop sealing and stamping machine. J. T. Tillman. No. 1,312,597; Aug. 12; v. 265; p. 171.
- Envelop, Tag-. C. P. Kleebauer. No. 1,291,023; Jan. 14; v. 258; p. 266.
- Envelop, Waterproof. J. D. Cardinell. No. 1,323,578; Dec. 2; v. 269; p. 67.
- Envelop, Window-. V. E. Heywood. No. 1,304,877; May 27; v. 262; p. 553.
- Envelops, Adjustable gusset for. R. Belcher. No. 1,304,145; May 20; v. 262; p. 375.
- Envelops, Machine for attaching fasteners to. C. F. Brown. No. 1,324,874; Dec. 16; v. 269; p. 418.
- Envelops, Machine for moistening. E. E. Gray. No. 1,326,496; Dec. 30; v. 269; p. 774.
- Envelops, Manufacture of. F. J. Parks. No. 1,316,737; Sept. 23; v. 266; p. 490.
- Envelops, Metallic fastener for merchandise-. C. E. Cather. No. 1,290,083; Jan. 7; v. 258; p. 17.
- Envelops of two sizes, Blank for. G. Arnold. No. 1,315,070; Sept. 2; v. 266; p. 110.
- Enzymes, Producing an extract of proteolytic. T. Muto. No. 1,296,600; Mar. 4; v. 260; p. 175.
- Episcope for tanks and other uses. E. Schneider. No. 1,311,294; July 29; v. 264; p. 735.
- Equalizer mechanism. A. H. Peycke. No. 1,323,315; Dec. 2; v. 269; p. 17.
- Equalizing device. G. H. Townsend. No. 1,314,719; Sept. 2; v. 266; p. 47.
- Eraser. F. K. Butler. No. 1,290,900; Jan. 14; v. 258; p. 239.
- Eraser and eraser-holder. T. Engstrom. No. 1,301,413; Apr. 22; v. 261; p. 702.
- Eraser-holder. J. Auld. No. 1,292,416; Jan. 28; v. 258; p. 652.
- Eraser-holder. W. Bloom. No. 1,326,840; Dec. 30; v. 269; p. 839.
- Eraser-pad. J. H. Pou, Jr. No. 1,311,245; July 29; v. 264; p. 726.
- Eraser-reel. J. J. Du Bois. No. 1,299,921; Apr. 8; v. 261; p. 325.
- Eraser structure. J. Auld. No. 1,298,639; Apr. 1; v. 261; p. 4.
- Erector's come-along. T. Skantz. No. 1,317,145; Sept. 23; v. 266; p. 565.
- Ergot soluble in water and suitable for injections, Manufacture of product derived from. A. Gams. No. 1,292,394; Jan. 21; v. 258; p. 625.
- Escapement. G. J. Hedberg. No. 1,326,499; Dec. 30; v. 269; p. 775.
- Escutcheon and handle, Combined. J. A. Raymond. No. 1,291,135; Jan. 14; v. 258; p. 293.
- Esophagus, Extractor for obstructed. W. H. Corey. No. 1,305,773; June 3; v. 263; p. 103.
- Etching. E. Grass. No. 1,313,233; Aug. 12; v. 265; p. 296.
- Etching apparatus. J. H. Beare. No. 1,291,369; Jan. 14; v. 258; p. 347.
- Ethanol-trialkyl-arsonium hydroxids and making same. M. Guggenheim and E. Hug. No. 1,308,414; July 1; v. 264; p. 74.
- Ethanol-trialkyl-arsonium hydroxids, Making. M. Guggenheim and E. Hug. No. 1,308,413; July 1; v. 264; p. 74.
- Ether and alcohol vapors contained in the air of factories, Process and apparatus for the recovery of. E. A. Barbet. No. 1,326,432; Dec. 30; v. 269; p. 762.
- Ether and making the same, Anesthesia. E. M. Flaherty. No. 1,312,475; Aug. 5; v. 265; p. 117.
- Ether-cone. E. G. Baum. No. 1,317,122; Sept. 23; v. 266; p. 561.
- Ethylene dichlorid from ethylene, Preparing. G. O. Curme, Jr. No. 1,315,545; Sept. 9; v. 266; p. 205.
- Ethylene dichlorid, Preparing. G. O. Curme, Jr. No. 1,315,542; Sept. 9; v. 266; p. 205.
- Ethylene, Preparation of pure. G. O. Curme, Jr. No. 1,315,541; Sept. 9; v. 266; p. 204.
- Ethylidene diacetate. J. Koetschet and M. Beudet. No. 1,306,964; June 17; v. 263; p. 388.
- Ethylidene diacetate, Manufacture of. J. Koetschet and M. Beudet. No. 1,304,989; May 27; v. 262; p. 574.
- Evacuating-machine. E. H. Granberry. No. 1,308,351; July 1; v. 264; p. 63.
- Evaporating apparatus. S. M. Dick. No. 1,298,470; Mar. 25; v. 260; p. 672.
- Evaporating apparatus. B. E. Taylor. No. 1,308,819; July 8; v. 264; p. 177.
- Evaporating apparatus. K. L. E. Thunholm. No. 1,324,417; Dec. 9; v. 269; p. 270.
- Evaporating apparatus and method of operating same. E. A. Newhall. No. 1,318,793; Oct. 14; v. 267; p. 277.
- Evaporating moisture-containing materials. G. D. Harris. No. 1,296,508; Mar. 4; v. 260; p. 154.
- Evaporating moisture-containing materials, Apparatus for. G. D. Harris. No. 1,296,509; Mar. 4; v. 260; p. 154.
- Evaporating-pan. C. M. Crossno. No. 1,311,049; July 22; v. 264; p. 657.
- Evaporating system for moisture-containing materials. G. D. Harris. No. 1,296,510; Mar. 4; v. 260; p. 155.
- Evaporator. E. A. Barbet. No. 1,325,461; Dec. 16; v. 269; p. 526.
- Evaporator. G. H. Benjamin. No. 1,302,625; May 6; v. 262; p. 27.
- Evaporator. W. E. Garrigues. No. 1,298,925; Apr. 1; v. 261; p. 71.
- Evaporator. W. E. Garrigue. No. 1,317,488; Sept. 30; v. 266; p. 667.
- Evaporator. J. Helm. No. 1,311,890; Aug. 5; v. 265; p. 7.
- Evaporator. R. C. Jones. No. 1,299,955; Apr. 8; v. 261; p. 332.
- Evaporator. R. W. King and H. G. Miller. No. 1,303,209; May 6; v. 262; p. 139.
- Evaporator. E. Stevens. No. 1,300,670; Apr. 15; v. 261; p. 511.
- Evaporator, feed-water heater, and the like. R. R. Row and H. C. Davis. No. 1,304,379; May 20; v. 262; p. 421.
- Evaporator-furnace. J. S. Clarke. No. 1,304,542; May 27; v. 262; p. 491.
- Evaporometer, Recording-. D. di B. Savorgnan. No. 1,299,041; Apr. 1; v. 261; p. 98.
- Evener attachment. W. W. Haskell. No. 1,320,229; Oct. 28; v. 267; p. 597.
- Evener, Four-horse. G. D. Houston. No. 1,321,638; Nov. 11; v. 268; p. 305.
- Evener, Three-horse. G. D. Houston. No. 1,305,366; June 3; v. 263; p. 26.
- Excavating and hoisting apparatus. J. Johnson. No. 1,300,842; Apr. 15; v. 261; p. 548.
- Excavating and like machines, Bucket structure for. G. W. Jackson. No. 1,313,220; Aug. 12; v. 265; p. 293.
- Excavating and loading machine. E. G. Rust. No. 1,311,621; July 29; v. 264; p. 796.
- Excavating apparatus. W. J. Barnes. No. 1,315,903; Sept. 9; v. 266; p. 270.
- Excavating apparatus. J. L. and J. L. Potter. No. 1,313,911; Aug. 26; v. 265; p. 472.
- Excavating-machine. O. O. App. No. 1,290,479; Jan. 7; v. 258; p. 113.
- Excavating-machine. H. J. Barnhart. No. 1,301,803; Apr. 29; v. 261; p. 807.
- Excavating-machine. E. A. Dewey. No. 1,299,826; Apr. 8; v. 261; p. 304.
- Excavating-machine. P. Goodman. No. 1,326,337; Dec. 30; v. 269; p. 744.
- Excavating-machine. N. V. Houghton. No. 1,320,328; Oct. 28; v. 267; p. 616.
- Excavating-machine. B. McIntire. No. 1,306,350; June 10; v. 263; p. 243.
- Excavating-machine. G. Seeds. No. 1,295,615; Feb. 25; v. 259; p. 703.
- Excavating-shovel. R. H. McWilliams. No. 1,325,027; Dec. 16; v. 269; p. 446.
- Excavations, Process and apparatus for filling in. J. C. Meem. No. 1,326,364; Dec. 30; v. 269; p. 749.
- Excavator. J. H. Albrecht. No. 1,309,054; July 8; v. 264; p. 223.
- Excavator. R. A. Denovan. No. 1,301,918; Apr. 29; v. 261; p. 829.
- Excavator. C. Marvin. No. 1,313,715; Aug. 19; v. 265; p. 402.
- Excavator. M. E. Pugh. No. 1,316,058; Sept. 16; v. 266; p. 313.
- Excavator and hoist and traveler or trolley therefor. J. Perna. No. 1,312,869; Aug. 12; v. 265; p. 224.
- Excavator and spreader, Combined. O. C. Mann. No. 1,295,552; Feb. 25; v. 259; p. 689.
- Excavator-bucket cleaner. T. Loken. No. 1,298,978; Apr. 1; v. 261; p. 84.
- Excavator, Lateral-discharge. F. E. Bager. No. 1,290,871; Jan. 14; v. 258; p. 231.
- Excavator shield and side cutter. J. C. French. No. 1,317,697; Oct. 7; v. 267; p. 7.
- Excavator, Tower-. C. G. Oglesby. No. 1,292,363; Jan. 21; v. 258; p. 619.
- Excelsior. S. C. Radford. No. 1,324,066; Dec. 9; v. 269; p. 203.
- Excelsior-pad machine. C. A. Wakeman. No. 1,321,576; Nov. 11; v. 268; p. 294.
- Excess-demand meter. A. W. Burke. No. 1,308,656; July 1; v. 264; p. 118.
- Exerciser. A. A. Hendrickson. No. 1,307,905; June 24; v. 263; p. 593.
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- Exerciser, Lung-. C. L. Canaday. No. 1,295,118; Feb. 25; v. 259; p. 588.  
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 Explosion-engine. B. D. Gamble. No. 1,314,137; Aug. 26; v. 265; p. 516.  
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 Explosive. W. Rintoul and E. G. Beckett. No. 1,298,793; Apr. 1; v. 261; p. 42.  
 Explosive. W. Rintoul and D. Cross. No. 1,303,115; May 6; v. 262; p. 122.  
 Explosive. W. Rintoul and D. Cross. No. 1,306,440; June 10; v. 263; p. 259.  
 Explosive. W. Rintoul and D. Cross. No. 1,310,489; July 22; v. 264; p. 553.  
 Explosive. W. R. Swint. No. 1,309,553; July 8; v. 264; p. 314.  
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 Explosive and manufacturing same. K. V. Nielsen and J. P. Larsen. No. 1,293,882; Feb. 11; v. 259; p. 241.  
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 Explosive compound. F. R. and J. G. Burrows. No. 1,301,646; Apr. 22; v. 261; p. 745.  
 Explosive compound. W. O. Snelling. No. 1,310,969; July 22; v. 264; p. 642.  
 Explosive compounds. R. L. Hill and A. J. Strane. No. 1,307,495; June 24; v. 263; p. 519.  
 Explosive compounds and product thereof, Producing. C. M. Stine. No. 1,311,926; Aug. 5; v. 265; p. 14.  
 Explosive compounds and products thereof, Producing. C. M. Stine. No. 1,309,551; July 8; v. 264; p. 313.  
 Explosive device. A. D. Romain. No. 1,303,499; May 13; v. 262; p. 219.  
 Explosive devices, Booster construction for. L. P. Barlow. No. 1,317,610; Sept. 30; v. 266; p. 691.  
 Explosive-engine. G. Amonsens. No. 1,318,471; Oct. 14; v. 267; p. 216.  
 Explosive-engine. F. O. Ball. No. 1,295,836; Mar. 4; v. 260; p. 4.  
 Explosive-engine. A. M. Carpenter. No. 1,318,354; Oct. 14; v. 267; p. 193.  
 Explosive-engine. C. E. Eggett and D. Young. No. 1,309,279; July 8; v. 264; p. 263.  
 Explosive-engine. J. C. Fredricksen. No. 1,318,371; Oct. 14; v. 267; p. 197.  
 Explosive-engine. F. M. Prather. No. 1,299,777; Apr. 8; v. 261; p. 294.  
 Explosive-engine. F. H. Treat. No. 1,290,413; Jan. 7; v. 258; p. 96.  
 Explosive engine attachment. E. C. Baker. No. 1,291,718; Jan. 21; v. 258; p. 460.  
 Explosion-engine, Four-cycle. C. R. Frazer. No. 1,292,748; Jan. 28; v. 258; p. 732.  
 Explosive-engine, Rotary. J. F. Duby. No. 1,293,733; Feb. 11; v. 259; p. 207.  
 Explosive, Fertilizing-. W. O. Snelling. No. 1,316,396; Sept. 16; v. 266; p. 376.  
 Explosive gaseous mixtures, Burning of. C. E. Lucke. No. 1,302,819; May 6; v. 262; p. 64.  
 Explosive, High. J. D. Thompson. No. 1,291,258; Jan. 14; v. 258; p. 321.  
 Explosive material, Compressor for bundled. W. H. McCandlish and A. B. Robson. No. 1,297,375; Mar. 18; v. 260; p. 414.  
 Explosive material, Machine for treating. A. J. Moxham. No. 1,299,500; Apr. 8; v. 261; p. 229.  
 Explosive-material pellets, Manufacturing. E. du Pont. No. 1,295,975; Mar. 4; v. 260; p. 36.  
 Explosive missile. H. G. Saal. No. 1,320,991; Nov. 4; v. 268; p. 119.  
 Explosive mixture. B. L. Hill and A. J. Strane. No. 1,299,942; Apr. 8; v. 261; p. 329.  
 Explosive-motor. R. Beckman and H. Wollesen. No. 1,301,359; Apr. 22; v. 261; p. 692.  
 Explosive, Nitrostarch. C. E. Waller. No. 1,305,845; June 3; v. 263; p. 116.  
 Explosive, Nitrostarch. C. E. Waller. No. 1,305,846; June 3; v. 263; p. 116.  
 Explosive, Plastic chlorate. J. M. Brown. No. 1,309,014; July 8; v. 264; p. 214.  
 Explosive-powder safety-box. C. I. Snyder. No. 1,302,869; May 6; v. 262; p. 74.  
 Explosive, Propellant. A. S. O'Neil. No. 1,311,910; Aug. 5; v. 265; p. 11.  
 Explosive shell. E. S. Ward. No. 1,309,669; July 15; v. 264; p. 373.  
 Explosives, Method and means for preparing and detonating. H. Csanyi. No. 1,323,524; Dec. 2; v. 269; p. 57.  
 Explosives, Preparing gelatinized propellant. F. L. Nathan. W. Rintoul and F. Baker. No. 1,302,202; Apr. 29; v. 261; p. 882.  
 Explosives, Producing propellant. A. S. O'Neil. No. 1,311,909; Aug. 5; v. 265; p. 11.  
 Exposure-meter. G. L. Harvey. No. 1,292,600; Jan. 28; v. 258; p. 697.  
 Exposure-meter. G. A. Smith. No. 1,310,256; July 15; v. 264; p. 419.  
 Expression-controlling device. H. J. La Joie. No. 1,296,819; Mar. 11; v. 260; p. 261.  
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 Extensible material, Conforming. A. L. Russell and C. E. Grush. No. 1,313,916; Aug. 26; v. 265; p. 473.  
 Extensible support. C. E. E. Smith. No. 1,293,222; Feb. 4; v. 259; p. 57.  
 Extension-bit. P. Basmaison. No. 1,323,570; Dec. 2; v. 269; p. 66.  
 Extension-control device. H. C. Waite. No. 1,322,979; Nov. 25; v. 268; p. 659.  
 Extension-table. P. N. Nyholm. No. 1,302,420; Apr. 29; v. 261; p. 925.  
 Extension-table. G. H. Ross and A. Anderson. No. 1,304,204; May 20; v. 262; p. 386.  
 Extension-table. H. L. von Trott. No. 1,303,997; May 20; v. 262; p. 349.

- Extension-table. F. Wendl. No. 1,294,734; Feb. 18; v. 259; p. 476.
- Extension-table. H. H. Wielage. No. 1,325,458; Dec. 16; v. 269; p. 526.
- Extension-table lock. E. W. Thornton. No. 1,303,828; May 13; v. 262; p. 280.
- Extensometer. W. J. Tretch. No. 1,300,790; Apr. 15; v. 261; p. 537.
- Extractive product from the hypophysis gland. F. Flaecher and B. Reuter. No. 1,296,063; Mar. 4; v. 260; p. 57.
- Extractor. *See—*
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| Automobile-extractor.      | Dry-cleaning extractor. |
| Bolt-extractor.            | Juice-extractor.        |
| Bottle-stopper extractor.  | Pen-extractor.          |
| Centrifugal extractor.     | Screw-extractor.        |
| Cork-extractor.            | Shell-extractor.        |
| Cork or stopper extractor. | Tobacco-extractor.      |
| Cream-extractor.           | Wick-extractor.         |
| Cotter-pin extractor.      |                         |
- Extracts, infusions, or decoctions to be obtained in a continuous manner. Apparatus for enabling. P. Kestner. No. 1,325,298; Dec. 16; v. 269; p. 498.
- Extruder. T. M. Davidson. No. 1,324,145; Dec. 9; v. 269; p. 218.
- Eye. Mechanical. D. Zaiden. No. 1,294,592; Feb. 18; v. 259; p. 443.
- Eye-protector. E. Altman. No. 1,298,636; Apr. 1; v. 261; p. 3.
- Eye-protector. G. H. Day. No. 1,295,128; Feb. 25; v. 259; p. 591.
- Eye-protector. G. H. Day. No. 1,298,908; Apr. 1; v. 261; p. 67.
- Eye-protector. E. V. Heaford. No. 1,310,077; July 15; v. 264; p. 447.
- Eye-protector. H. K. Parsons. No. 1,308,366; July 1; v. 264; p. 65.
- Eye-protector. H. T. Reeve. No. 1,298,092; Mar. 25; v. 260; p. 591.
- Eye-protector. J. R. Walker. No. 1,307,228; June 17; v. 263; p. 435.
- Eye-protector. F. Willson. No. 1,306,366; June 10; v. 263; p. 246.
- Eye-protector. F. Willson. No. 1,306,367; June 10; v. 263; p. 246.
- Eye-protector. H. T. Reeve. No. 1,304,805; May 27; v. 262; p. 540.
- Eye-protector, Periscopic. E. H. Smith. No. 1,318,812; Oct. 14; v. 267; p. 280.
- Eye-shade. D. A., E. C. F., and M. W. Brubaker. No. 1,319,639; Oct. 21; v. 267; p. 465.
- Eye-shade. A. Ringman. No. 1,325,581; Dec. 23; v. 269; p. 567.
- Eye shade and protector. L. A. Griffin. No. 1,295,980; Mar. 4; v. 260; p. 37.
- Eye shade and shield. Combined. N. Crossley. No. 1,313,469; Aug. 19; v. 265; p. 355.
- Eye-wiper. C. B. Carr. No. 1,305,442; June 3; v. 263; p. 40.
- Eyes. Instrument for testing the abnormalities of the recti muscles of the human. C. C. Allen and E. J. George. No. 1,292,671; Jan. 28; v. 258; p. 714.
- Eyeglass and spectacle bridge. S. J. Clulee. No. 1,298,294; Mar. 25; v. 260; p. 635.
- Eyeglass and spectacle temple. W. S. Searles. No. 1,293,215; Feb. 4; v. 259; p. 55.
- Eyeglass-case. B. F. Lindeman. No. 1,303,485; May 13; v. 262; p. 217.
- Eyeglass-case strengthener. C. Falb. No. 1,302,341; Apr. 29; v. 261; p. 909.
- Eyeglass-frame. A. Kates. No. 1,326,664; Dec. 30; v. 269; p. 806.
- Eyeglass-holder. V. E. Duncanson. No. 1,309,573; July 8; v. 264; p. 318.
- Eyeglass lens-mounting. J. R. Van Tassel. No. 1,299,068; Apr. 1; v. 261; p. 104.
- Eyeglass-mounting. E. J. R. Beattey. No. 1,307,477; June 24; v. 263; p. 515.
- Eyeglass-mounting. F. R. Bishop. No. 1,310,273; July 15; v. 264; p. 483.
- Eyeglass-mounting. O. Y. Ladd. No. 1,309,072; July 8; v. 264; p. 225.
- Eyeglass-mounting. E. J. Martel. No. 1,291,060; Jan. 14; v. 258; p. 277.
- Eyeglass-mounting. J. Rosenblatt. No. 1,322,624; Nov. 25; v. 268; p. 593.
- Eyeglass-mounting. W. R. Uhlemann. No. 1,311,543; July 29; v. 264; p. 782.
- Eyeglass-mounting. W. R. Uhlemann. No. 1,323,995; Dec. 2; v. 269; p. 145.
- Eyeglass-mountings. Lens-holder for. O. Y. Ladd. No. 1,322,798; Nov. 25; v. 268; p. 625.
- Eyeglass nose-mounting. J. E. Higgins. No. 1,319,868; Oct. 28; v. 267; p. 531.
- Eyeglass-support. J. A. Taylor. No. 1,310,258; July 15; v. 264; p. 480.
- Eyeglasses. E. C. Bernheim. No. 1,320,360; Oct. 28; v. 267; p. 622.
- Eyeglasses. J. Z. Le Page. No. 1,325,362; Dec. 16; v. 269; p. 509.
- Eyeglasses. H. M. Miller. No. 1,291,593; Jan. 14; v. 258; p. 399.
- Eyeglasses. E. Rutledge. No. 1,320,931; Nov. 4; v. 268; p. 108.
- Eyeglasses. J. F. Sandoz. No. 1,322,138; Nov. 18; v. 268; p. 449.
- Eyeglasses, Holder for use in repairing. O. C. Kraechmer. No. 1,301,275; Apr. 22; v. 261; p. 675.
- Eyeglasses, Reel for. C. S. Swift. No. 1,309,110; July 8; v. 264; p. 232.
- Eyelet for fasteners. G. E. Bishop. No. 1,326,637; Dec. 30; v. 269; p. 801.
- Eyelet. Lacing. J. O. Langford. No. 1,299,584; Apr. 8; v. 261; p. 248.
- Eyelet-setting machine. R. F. Knight. No. 1,297,695; Mar. 18; v. 260; p. 481.
- Eyeletting-machine. P. R. Glass. No. 1,303,194; May 6; v. 262; p. 136.
- Eyeletting-machine. C. Mack. No. 1,300,219; Apr. 8; v. 261; p. 390.
- Eyeletting-machine. H. H. Osgood. No. 1,319,413; Oct. 21; v. 267; p. 421.
- Fabric. *See—*
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|--------------------------|--------------------------|
| Bed-spring fabric.       | Metal fabric.            |
| Bituminized fabric.      | Paper fabric.            |
| Coated fabric.           | Pile fabric.             |
| Coating fabric.          | Protecting fabric.       |
| Composite gummed fabric. | Self-reinforcing fabric. |
| Compound fabric.         | Tire fabric.             |
| Elastic fabric.          | Woven fabric.            |
| Laminated fabric.        |                          |
- Fabric. F. A. Butler. No. 1,315,179; Sept. 2; v. 266; p. 129.
- Fabric. S. T. Metz. No. 1,301,865; Apr. 29; v. 261; p. 819.
- Fabric. J. W. Snedecker. No. 1,325,590; Dec. 23; v. 269; p. 568.
- Fabric and making same. Double-pile. G. F. Hutchins and G. Crossland. No. 1,307,008; June 17; v. 263; p. 396.
- Fabric and making same. Knitted. M. C. Miller. No. 1,309,582; July 8; v. 264; p. 319.
- Fabric and making same. Patch. J. G. Moomy. No. 1,325,798; Dec. 23; v. 269; p. 607.
- Fabric and making same. Pile. H. J. Hope. No. 1,319,710; Oct. 28; v. 267; p. 500.
- Fabric. Apparatus for impregnating. J. E. and P. D. Thropp. No. 1,312,878; Aug. 12; v. 265; p. 225.
- Fabric. Apparatus for impregnating fragile. E. Weinheim. No. 1,306,650; June 10; v. 263; p. 298.
- Fabric-clamp. B. F. Orewiler. No. 1,316,387; Sept. 16; v. 266; p. 375.
- Fabric-cleaning apparatus. C. A. Dillon. No. 1,291,440; Jan. 14; v. 258; p. 364.
- Fabric covering. Machine for affixing. A. Bianchi and J. Occhipinti. No. 1,302,288; Apr. 29; v. 261; p. 898.
- Fabric-cutting device. A. L. Berthelsen. No. 1,318,346; Oct. 14; v. 267; p. 101.
- Fabric-cutting machine. J. Appelbaum. No. 1,299,536; Apr. 8; v. 261; p. 237.
- Fabric-cutting machine. I. Appelbaum. No. 1,310,853; July 22; v. 264; p. 621.
- Fabric-cutting machine. H. Maimin. No. 1,305,480; June 3; v. 263; p. 47.
- Fabric drying and shaping device. E. M. Witherell. No. 1,318,470; Oct. 14; v. 267; p. 216.
- Fabric duplicating-sheet and making it. E. Kirkbride. No. 1,315,311; Sept. 9; v. 266; p. 163.
- Fabric for spring-beds. J. B. Andres. No. 1,305,986; June 10; v. 263; p. 173.
- Fabric-forming apparatus. F. A. Seiberling. No. 1,309,424; July 8; v. 264; p. 289.
- Fabric-guiding device. M. Swenson. No. 1,315,750; Sept. 9; v. 266; p. 241.
- Fabric-hanging machine. S. M. Ford. No. 1,290,955; Jan. 14; v. 258; p. 253.
- Fabric. Machine for cutting and rolling. T. Midgley. No. 1,321,228; Nov. 11; v. 268; p. 227.
- Fabric, Making strand. M. A. Marquette. No. 1,321,223; Nov. 11; v. 268; p. 226.
- Fabric-steaming device. H. M. Dudley. No. 1,314,791; Sept. 2; v. 266; p. 59.
- Fabric-steaming device. H. M. Dudley. No. 1,317,275; Sept. 30; v. 266; p. 626.
- Fabric-stretcher. F. Chatfield. No. 1,298,006; Mar. 25; v. 260; p. 574.
- Fabric-stripping machine. C. D. Hibbs. No. 1,321,790; Nov. 11; v. 268; p. 334.
- Fabric tape or strip. Producing bias. G. W. Bulley. No. 1,323,212; Nov. 25; v. 268; p. 704.
- Fabric-treating machine. H. M. Dudley. No. 1,306,529; June 10; v. 263; p. 275.
- Fabric webbing or reinforcing machine. T. Scherf. No. 1,292,890; Jan. 28; v. 258; p. 765.
- Fabrics, &c. Composition for smoothing the abrasive surfaces of. O. F. Funk. No. 1,321,518; Nov. 11; v. 268; p. 282.
- Fabrics. Developer for dyed. W. Wolff. No. 1,311,150; July 22; v. 264; p. 675.
- Fabrics having the property of invisibility. Production of. F. Cochrane. No. 1,306,213; June 10; v. 263; p. 215.
- Fabrics. Inserting openwork in. C. and A. Marchese. No. 1,313,198; Aug. 12; v. 265; p. 288.



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- Fabrics into strips, Machine for cutting sheer. F. X. Scully. No. 1,315,340; Sept. 9; v. 266; p. 169.
- Fabrics, Machine for filling or loading. J. J. Hampson. No. 1,313,686; Aug. 19; v. 265; p. 396.
- Fabrics, Machine for introducing knickers into. W. S. Kinsley. (Reissue.) No. 14,724; Sept. 16; v. 266; p. 408.
- Fabrics, Making. S. T. Metz. No. 1,302,195; Apr. 29; v. 261; p. 881.
- Fabrics, Making composite gummed. C. H. and G. H. Crowell. No. 1,323,021; Nov. 25; v. 268; p. 667.
- Fabrics, Making pile. H. J. Hope. No. 1,319,709; Oct. 28; v. 267; p. 500.
- Fabrics, Manufacture of ornamental beaded. R. O. Trueb. No. 1,326,311; Dec. 30; v. 269; p. 739.
- Fabrics, Method of and means for finishing the edges of woven. H. W. Owen. No. 1,307,694; June 24; v. 263; p. 554.
- Fabrics or the like, Seam-detector for. F. A. and W. F. Papineau. No. 1,306,713; June 17; v. 263; p. 342.
- Fabrics, Take-up or winding mechanism for. W. H. Browning. No. 1,324,724; Dec. 9; v. 269; p. 329.
- Face-shield. W. D. Kemp. No. 1,298,223; Mar. 25; v. 260; p. 620.
- Facial-contour restorer. F. M. Morgan. No. 1,321,187; Nov. 11; v. 268; p. 210.
- Facings, Making friction. S. Simpson. No. 1,301,612; Apr. 22; v. 261; p. 738.
- Factory-machine spool-holding apparatus. S. Berkovitz. No. 1,303,015; May 6; v. 262; p. 102.
- Fair-leader. S. A. Soule. No. 1,307,989; June 24; v. 263; p. 609.
- False work, Building. S. J. Branson. No. 1,323,823; Dec. 2; v. 269; p. 113.
- Fan. T. M. Condon. No. 1,324,231; Dec. 9; v. 269; p. 234.
- Fan. J. Domina. No. 1,312,023; Aug. 5; v. 265; p. 32.
- Fan. W. M. McEwen. No. 1,316,907; Sept. 23; v. 266; p. 520.
- Fan. V. Niewinski. No. 1,293,518; Feb. 4; v. 259; p. 127.
- Fan. H. A. Thorndike. No. 1,310,039; July 15; v. 264; p. 440.
- Fan, Adjustable radiator. W. G. Weatherly. No. 1,309,005; July 8; v. 264; p. 212.
- Fan and casing, Electric. J. P. Hotz. No. 1,301,939; Apr. 29; v. 261; p. 834.
- Fan and pump, Multistage centrifugal. W. J. Frame. No. 1,309,282; July 8; v. 264; p. 263.
- Fan and the like oscillating support. E. Marelli. No. 1,291,988; Jan. 21; v. 258; p. 528.
- Fan attachment. J. Januchowsky and H. Albert. No. 1,295,510; Feb. 25; v. 259; p. 678.
- Fan base, Electric. J. A. Edman. No. 1,322,886; Nov. 25; v. 268; p. 642.
- Fan-belt retainer. W. J. Meikleham. No. 1,313,829; Aug. 19; v. 265; p. 423.
- Fan-bracket and belt-tightener. J. C. Miller. No. 1,311,527; July 29; v. 264; p. 780.
- Fan, By-pass draft. G. W. Martin. No. 1,315,028; Sept. 2; v. 266; p. 102.
- Fan, Centrifugal. A. A. Criqui. No. 1,314,049; Aug. 26; v. 265; p. 499.
- Fan, Centrifugal. H. F. Ilagen. No. 1,319,331; Oct. 21; v. 267; p. 405.
- Fan, Centrifugal. J. T. Skillins and G. A. Gabriel. No. 1,319,364; Oct. 21; v. 267; p. 411.
- Fan construction. A. J. Stecker. No. 1,325,591; Dec. 23; v. 269; p. 569.
- Fan control, Electric. G. Olson. No. 1,300,638; Apr. 15; v. 261; p. 504.
- Fan, Cotton-bur breaker and suction. S. D. Irwin and S. E. Johnson, Jr. No. 1,322,020; Nov. 18; v. 268; p. 427.
- Fan, Delivery. H. A. W. Wood. No. 1,325,550; Dec. 23; v. 269; p. 561.
- Fan device. J. A. Dougherty. No. 1,300,253; Apr. 15; v. 261; p. 423.
- Fan, Electric. G. Olson. No. 1,295,055; Feb. 18; v. 259; p. 550.
- Fan for dynamo-electric machines, Adjustable. A. Kimble. No. 1,318,453; Oct. 14; v. 267; p. 212.
- Fan, Hand. G. Fischbein and L. Newman. No. 1,314,314; Aug. 26; v. 265; p. 550.
- Fan-machine. E. T. Shaw. No. 1,295,618; Feb. 25; v. 259; p. 703.
- Fan, Oscillating electric. R. J. Russell and E. S. Pillsbury. No. 1,326,155; Dec. 23; v. 269; p. 673.
- Fan, Revolving. E. W. Denman. No. 1,303,261; May 13; v. 262; p. 177.
- Fan structure. L. Schwitzer. No. 1,316,652; Sept. 23; v. 266; p. 473.
- Fan, Ventilator. M. M. Kohn. No. 1,322,582; Nov. 25; v. 268; p. 585.
- Fan, Water-motor. F. L. Hurtt and A. S. Wright. No. 1,301,056; Apr. 15; v. 261; p. 595.
- Fans and the like, Guard for rotary. C. H. J. Dilg. No. 1,290,721; Jan. 7; v. 258; p. 172.
- Fans, Deodorizing attachment for electric. S. Marcovitz. No. 1,321,535; Nov. 11; v. 268; p. 286.
- Fanning-mill. J. W. Mabin. No. 1,309,329; July 8; v. 264; p. 272.
- Fare-box. A. A. Burrows. No. 1,293,695; Feb. 11; v. 259; p. 198.
- Fare-box. F. B. Kennedy. No. 1,291,018; Jan. 14; v. 258; p. 265.
- Fare-box recorder, Combination. D. B. Whistler. No. 1,291,317; Jan. 14; v. 258; p. 334.
- Fare-register. G. F. Rooke. No. 1,294,307; Feb. 11; v. 259; p. 341.
- Fare-register. G. F. Rooke. No. 1,294,308; Feb. 11; v. 259; p. 342.
- Fare-register. E. H. Thompson. No. 1,297,274; Mar. 11; v. 260; p. 363.
- Fare-register. A. H. Woodward. No. 1,310,819; July 22; v. 264; p. 615.
- Fare register and collector. J. M. Johnson. No. 1,295,900; Mar. 4; v. 260; p. 18.
- Fare register, Coin and ticket. J. M. Johnson. No. 1,310,833; July 22; v. 264; p. 618.
- Fare-register, Zone-recording. J. F. Ohmer. No. 1,316,176; Sept. 16; v. 266; p. 335.
- Farm-gate. J. A. Bimler. No. 1,315,006; Sept. 2; v. 266; p. 98.
- Farm-gate. E. B. and D. F. Long. No. 1,300,284; Apr. 15; v. 261; p. 429.
- Farm-gate. S. Marquis. No. 1,290,769; Jan. 7; v. 258; p. 182.
- Farm-gate, Automatically-operated. C. Lush. No. 1,321,832; Nov. 18; v. 268; p. 393.
- Farm-gate latch. A. C. Harman. No. 1,312,479; Aug. 5; v. 265; p. 118.
- Farm implement. L. A. Aspinwall. No. 1,319,504; Oct. 21; v. 267; p. 439.
- Farm implement. O. Rauch. No. 1,312,748; Aug. 12; v. 265; p. 200.
- Farm-machines, Attachment for. M. A. Goodsell. No. 1,324,663; Dec. 9; v. 269; p. 317.
- Farming implement. J. B. Ramos. No. 1,321,474; Nov. 11; v. 268; p. 275.
- Farming implement. G. Raun. No. 1,303,961; May 20; v. 262; p. 342.
- Farming implements, Power unit for. C. M. Gillespie. No. 1,305,088; May 27; v. 262; p. 593.
- Fastener. L. Arkin. No. 1,296,254; Mar. 4; v. 260; p. 100.
- Fastener. L. Arkin. No. 1,300,105; Apr. 8; v. 261; p. 365.
- Fastener. O. T. Bell. No. 1,306,369; June 10; v. 263; p. 247.
- Fastener. F. S. Carr. No. 1,300,571; Apr. 15; v. 261; p. 491.
- Fastener. F. S. Carr. No. 1,300,572; Apr. 15; v. 261; p. 492.
- Fastener. F. S. Carr. No. 1,300,576; Apr. 15; v. 261; p. 492.
- Fastener. F. S. Carr. No. 1,300,577; Apr. 15; v. 261; p. 492.
- Fastener. F. S. Carr. No. 1,300,579; Apr. 15; v. 261; p. 493.
- Fastener. F. S. Carr. No. 1,300,580; Apr. 15; v. 261; p. 493.
- Fastener. M. F. Carr. No. 1,300,581; Apr. 15; v. 261; p. 493.
- Fastener. M. F. Carr. No. 1,300,582; Apr. 15; v. 261; p. 493.
- Fastener. M. F. Carr. No. 1,300,583; Apr. 15; v. 261; p. 493.
- Fastener. M. F. Carr. No. 1,300,584; Apr. 15; v. 261; p. 493.
- Fastener. M. F. Carr. No. 1,300,585; Apr. 15; v. 261; p. 494.
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- Fastener. M. F. Carr. No. 1,300,588; Apr. 15; v. 261; p. 494.
- Fastener. E. S. Church. No. 1,298,592; Apr. 1; v. 261; p. 63.
- Fastener. E. S. Church. No. 1,308,146; July 1; v. 264; p. 26.
- Fastener. H. H. Cobe. No. 1,305,979; June 3; v. 263; p. 142.
- Fastener. R. E. Jones. No. 1,314,402; Aug. 26; v. 265; p. 567.
- Fastener. F. A. Nolan. No. 1,291,657; Jan. 14; v. 258; p. 415.
- Fastener. J. D. Roth. No. 1,320,496; Nov. 4; v. 268; p. 26.
- Fastener. E. F. Stenman. No. 1,326,543; Dec. 30; v. 269; p. 784.
- Fastener. F. B. Stirckler. No. 1,318,303; Oct. 7; v. 267; p. 123.
- Fastener. J. V. Woodworth. No. 1,302,263; Apr. 29; v. 261; p. 894.
- Fastener, Ball-socket. E. Gurney. No. 1,314,645; Sept. 2; v. 266; p. 32.
- Fastener, Belt. B. M. Mitchell. No. 1,318,576; Oct. 14; v. 267; p. 236.
- Fastener for containers or envelopes. P. H. and H. H. Allen. No. 1,314,781; Sept. 2; v. 266; p. 57.
- Fastener for lids of receptacles. L. Lichtenstein. No. 1,321,461; Nov. 11; v. 268; p. 272.

- Fastener for slit and other closures. G. Sundback. No. 1,322,650; Nov. 25; v. 268; p. 598.
- Fastener for storm-sashes, window-screens, &c. D. A. Strauss. No. 1,313,927; Aug. 26; v. 265; p. 476.
- Fastener-forming mechanism for fastener-inserting machine. G. A. Dobyne and J. H. Bruninga. No. 1,309,566; July 8; v. 264; p. 316.
- Fastener, Foundation-. H. H. Root. No. 1,321,149; Nov. 11; v. 268; p. 212.
- Fastener-inserting machine. F. W. Christy. No. 1,315,211; Sept. 9; v. 266; p. 145.
- Fastener-inserting machine. J. F. Davey. No. 1,302,516; May 6; v. 262; p. 7.
- Fastener-inserting-machine horn. S. A. Dobyne. No. 1,296,582; Mar. 4; v. 260; p. 171.
- Fastener, Necktie-. J. Zagel. No. 1,307,072; June 17; v. 263; p. 409.
- Fastener or hook and the like. C. E. Reinhardt-Rutland. No. 1,291,143; Jan. 14; v. 258; p. 295.
- Fastener, Packaging-. W. E. Elliott. No. 1,306,107; June 10; v. 263; p. 195.
- Fastener, Separable. D. Bourque. No. 1,302,628; May 6; v. 262; p. 28.
- Fastener, Separable. D. Bourque. No. 1,320,832; Nov. 4; v. 268; p. 89.
- Fastener, Separable. E. J. Boyler. No. 1,313,458; Aug. 19; v. 265; p. 353.
- Fastener, Separable. F. S. Carr. No. 1,300,573; Apr. 15; v. 261; p. 492.
- Fastener, Separable. F. S. Carr. No. 1,300,574; Apr. 15; v. 261; p. 492.
- Fastener, Separable. F. S. Carr. No. 1,300,575; Apr. 15; v. 261; p. 492.
- Fastener, Separable. F. M. Klopff. No. 1,301,573; Apr. 22; v. 261; p. 731.
- Fastener, Separable. S. A. D. Puter and E. J. Boyler. No. 1,313,331; Aug. 19; v. 265; p. 330.
- Fastener, setting machine. A. E. Hudson. No. 1,319,283; Oct. 21; v. 267; p. 396.
- Fastener, setting machine. Duplex. G. Goddu. No. 1,291,832; Jan. 21; v. 258; p. 487.
- Fastener, Skate-. F. Leblanc. No. 1,312,739; Aug. 12; v. 265; p. 198.
- Fastener-slider, Separable. G. Sundback. No. 1,302,606; May 6; v. 262; p. 23.
- Fastener, Stair-carpet. S. Brendza. No. 1,321,507; Nov. 11; v. 268; p. 281.
- Fastener, Stud-and-socket. D. Bourque. No. 1,321,974; Nov. 18; v. 268; p. 419.
- Fastener, Turn-button. F. S. Carr. No. 1,303,770; May 13; v. 262; p. 269.
- Fastener, Window-. C. Lombardo. No. 1,302,687; May 6; v. 262; p. 39.
- Fasteners, Machine for applying. W. E. Elliott. No. 1,313,941; Aug. 26; v. 265; p. 478.
- Fasteners, Machine for carding snap-. R. H. Berkley. No. 1,307,997; June 24; v. 263; p. 610.
- Fasteners, Making corrugated. F. P. Prindle. No. 1,321,473; Nov. 11; v. 268; p. 274.
- Fastening. J. L. Bogert. No. 1,322,087; Nov. 18; v. 268; p. 440.
- Fastening. H. C. Noble. No. 1,310,920; July 22; v. 264; p. 633.
- Fastening. C. J. Rohland. No. 1,306,279; June 10; v. 263; p. 230.
- Fastening device. R. H. and F. H. Bachman. No. 1,313,049; Aug. 12; v. 265; p. 260.
- Fastening device. H. W. Boyn. No. 1,323,150; Nov. 25; v. 268; p. 691.
- Fastening device. W. H. Burk. No. 1,301,813; Apr. 29; v. 261; p. 809.
- Fastening device. W. H. Clark and G. B. Prettyman. No. 1,326,846; Dec. 30; v. 269; p. 841.
- Fastening device. A. Eklund. No. 1,320,848; Nov. 4; v. 268; p. 92.
- Fastening device. F. J. Hage. No. 1,321,368; Nov. 11; v. 268; p. 254.
- Fastening device. S. H. Harris. No. 1,302,918; May 6; v. 262; p. 84.
- Fastening device. J. W. Kaiser. No. 1,295,515; Feb. 25; v. 259; p. 679.
- Fastening device. J. E. Lindsey. No. 1,298,976; Apr. 1; v. 261; p. 84.
- Fastening device. E. Ludeke. No. 1,300,429; Apr. 15; v. 261; p. 460.
- Fastening device. L. Ottinger. No. 1,312,199; Aug. 5; v. 265; p. 65.
- Fastening device. W. J. Putnam. No. 1,306,277; June 10; v. 263; p. 230.
- Fastening device. D. Quinlan. No. 1,307,925; June 24; v. 263; p. 596.
- Fastening device. F. S. Sargeant. No. 1,303,118; May 6; v. 262; p. 122.
- Fastening device. G. B. Shimp. No. 1,317,527; Sept. 30; v. 266; p. 674.
- Fastening device. C. B. Simpson. No. 1,295,623; Feb. 25; v. 259; p. 705.
- Fastening device. H. B. Taylor. No. 1,314,548; Sept. 2; v. 266; p. 14.
- Fastening device. R. P. White. No. 1,298,128; Mar. 25; v. 260; p. 599.
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- Fastening-inserting machine. J. A. Brogan. No. 1,295,846; Mar. 4; v. 260; p. 6.
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- Fastening-inserting machine. F. L. MacKenzie. No. 1,312,557; Aug. 12; v. 265; p. 162.
- Fastening-inserting machine. F. L. MacKenzie. No. 1,313,903; Aug. 26; v. 265; p. 471.
- Fastening-inserting machine. J. Sayer. No. 1,292,378; Jan. 21; v. 258; p. 622.
- Fastening-inserting machine. F. H. Warren. No. 1,312,598; Aug. 12; v. 265; p. 171.
- Fastening means. C. E. Singleton. No. 1,319,660; Oct. 21; v. 267; p. 468.
- Fastening mechanism. F. S. Carr. No. 1,300,578; Apr. 15; v. 261; p. 493.
- Fastening or coupling. G. I. Keener. No. 1,297,477; Mar. 18; v. 260; p. 434.
- Fastening-supplying mechanism. W. H. Borden. No. 1,321,186; Nov. 11; v. 268; p. 219.
- Fastening-utilizing machine. W. T. B. Roberts. No. 1,312,578; Aug. 12; v. 265; p. 168.
- Fastenings, Machine for inserting. B. D. Bohanan. No. 1,321,185; Nov. 11; v. 268; p. 219.
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- Fat for shortening purposes and making same, Communitated edible. H. A. Kohman, T. M. Godfrey, and L. H. Ashe. No. 1,326,276; Dec. 30; v. 269; p. 733.
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- Fats, Communitating hard. H. A. Kohman, T. M. Godfrey, and L. H. Ashe. No. 1,323,367; Dec. 2; v. 269; p. 28.
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- Faucet. L. R. Hibbard. No. 1,295,500; Feb. 25; v. 259; p. 675.
- Faucet. H. E. Kruecke. No. 1,293,476; Feb. 4; v. 259; p. 116.
- Faucet. L. La Valley. No. 1,301,577; Apr. 22; v. 261; p. 732.
- Faucet. G. F. McCully and A. A. Davidson. No. 1,321,835; Nov. 18; v. 268; p. 394.
- Faucet. F. B. Moran. No. 1,313,105; Aug. 12; v. 265; p. 271.
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- Faucet clamp or coupling. A. J. Frey. No. 1,306,476; June 10; v. 263; p. 266.
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- Feeding device. G. S. Henson. No. 1,309,090; July 8; v. 264; p. 228.
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- Feeding machine, Solder-. B. W. Seldel and G. E. Wattman. No. 1,309,107; July 8; v. 264; p. 231.
- Feeding mechanism. C. G. Bewley. No. 1,298,647; Apr. 1; v. 261; p. 6.
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- Feeding mechanism. H. O. Tibbitts. No. 1,321,573; Nov. 11; v. 268; p. 293.
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- Feeding mechanism, Cork-. J. Binder and E. Alberti. No. 1,296,743; Mar. 11; v. 260; p. 245.
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- Felts and the like, Treating. R. P. Perry. No. 1,293,186; Feb. 4; v. 259; p. 49.
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- Fender-bending machine. F. A. Lundahl. No. 1,296,199; Mar. 4; v. 260; p. 88.
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- Fertilizer and making same. G. H. Earp-Thomas. No. 1,309,723; July 15; v. 264; p. 382.
- Fertilizer and manufacturing the same, Product usable as. R. G. Brindle and A. H. Flint. No. 1,313,162; Aug. 12; v. 265; p. 282.
- Fertilizer composition and making same. G. H. Earp-Thomas. (Reissue.) No. 1,4686; July 15; v. 264; p. 507.
- Fertilizer-distributor. C. R. Davis. No. 1,315,818; Sept. 9; v. 266; p. 254.
- Fertilizer-distributor. S. K. Dennis. Nov. 1,291,436; Jan. 14; v. 258; p. 363.
- Fertilizer-distributor. F. Ginkel. No. 1,325,287; Dec. 16; v. 269; p. 496.
- Fertilizer-distributor. S. C. Hartsock. No. 1,313,595; Aug. 19; v. 265; p. 380.
- Fertilizer-distributor. A. W. McCreary. No. 1,308,714; July 1; v. 264; p. 130.
- Fertilizer-distributor. C. D. Stratton. No. 1,314,546; Sept. 2; v. 266; p. 13.
- Fertilizer-distributor. C. D. Stratton. No. 1,314,766; Sept. 2; v. 266; p. 55.
- Fertilizer-distributor. F. D. Vanderbilt. No. 1,300,791; Apr. 15; v. 261; p. 537.
- Fertilizer-distributing apparatus. J. L. Townsend. No. 1,313,653; Aug. 19; v. 265; p. 390.
- Fertilizer-distributing attachment. W. W. Wills. No. 1,293,281; Feb. 4; v. 259; p. 72.
- Fertilizer-drier. P. J. Hamler. No. 1,321,628; Nov. 11; v. 268; p. 303.
- Fertilizer from poultry-manure, Preparing commercial. F. X. Mudd. No. 1,320,405; Nov. 4; v. 268; p. 9.
- Fertilizer material, Continuous process of forming. V. H. and H. L. Kadish. No. 1,298,960; Apr. 1; v. 261; p. 79.
- Fertilizer material, Manufacture of. P. M. Shuey. No. 1,293,220; Feb. 4; v. 259; p. 56.
- Fertilizer materials and products obtained therefrom, Producing. P. H. Carter. No. 1,293,029; Feb. 4; v. 259; p. 13.
- Fertilizers, Manufacture of phosphate. A. Henwood. No. 1,310,080; July 15; v. 264; p. 447.
- Fertilizing method and material. W. O. Snelling. No. 1,308,453; July 1; v. 264; p. 81.
- Fiber and asphalt from roofing-scraps, Recovery of. B. A. Allison. No. 1,293,293; Feb. 4; v. 259; p. 75.
- Fiber-bearing plants, Means for treating. G. W. Schlichten. No. 1,308,376; July 1; v. 264; p. 67.
- Fiber-bearing plants, Process and apparatus for treating. L. N. Gillis. No. 1,307,250; June 17; v. 263; p. 440.
- Fiber composition. H. von Uffel. No. 1,326,232; Dec. 30; v. 269; p. 725.
- Fiber, Producing. K. Ochi. No. 1,315,635; Sept. 9; v. 266; p. 221.
- Fiber-treating device. H. M. Dudley. No. 1,304,862; May 27; v. 262; p. 551.
- Fiber-treating device. H. M. Dudley. No. 1,304,863; May 27; v. 262; p. 551.
- Fiber-treating device. H. M. Dudley. No. 1,310,522; July 22; v. 264; p. 559.
- Fiber-treating machines, Means for controlling. C. M. Greising and W. E. Naylor. No. 1,291,644; Jan. 14; v. 258; p. 412.
- Fibers from stalks of bast-plants and other adherent fibers, Separation of. R. L. Pritchard. No. 1,315,328; Sept. 9; v. 266; p. 166.
- Fibrous material, Impregnated. W. B. Wiegand and W. Uffelman. No. 1,317,340; Sept. 30; v. 266; p. 638.
- Fibrous material, Treatment of. W. Weimar. No. 1,313,437; Aug. 19; v. 265; p. 350.
- Fibrous materials, Machine for treating. A. M. Shely. No. 1,317,325; Sept. 30; v. 266; p. 635.
- Fibrous stock, Cleaner for. W. S. Kinsley. (Reissue.) No. 1,4725; Sept. 16; v. 266; p. 408.
- Fibrous substances, Machine for disintegrating. S. Nicolson. No. 1,326,685; Dec. 30; v. 269; p. 810.
- Field-glass and range-finder, Combined. B. R. Jolly. No. 1,294,341; Feb. 11; v. 259; p. 349.
- Field-receptacle elevating and stacking apparatus. G. D. Parker. No. 1,292,636; Jan. 28; v. 258; p. 706.
- Field straw-rack. A. Gardon. No. 1,319,060. Oct. 21; v. 267; p. 354.
- Figure, Mobile. M. Sieveking. No. 1,322,364; Nov. 18; v. 268; p. 492.
- Filament from viscid or viscous substance, Apparatus for making. H. M. Specht. No. 1,310,509; July 22; v. 264; p. 557.
- Filaments, Apparatus for shaping. J. E. Marshall. No. 1,298,533; Mar. 25; v. 260; p. 687.
- File. L. Jano. No. 1,316,898; Sept. 23; v. 266; p. 519.
- File. L. M. Stearns. No. 1,322,642; Nov. 25; v. 268; p. 597.
- File, Card. W. H. Hall. No. 1,316,719; Sept. 23; v. 266; p. 487.
- File, Credit. R. J. Wood. No. 1,313,150; Aug. 12; v. 265; p. 280.
- File handle or holder. O. L. Heckmann. No. 1,305,283; June 3; v. 263; p. 10.
- File-holder. W. D. Ivy. No. 1,326,269; Dec. 30; v. 269; p. 732.



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- File-holding device. W. T. Mullin. No. 1,323,899; Dec. 2; v. 269; p. 127.
- File, Paper-. C. M. Deason. No. 1,305,589; June 3; v. 263; p. 69.
- File, Paper-. W. R. Rutherford. No. 1,318,598; Oct. 14; v. 267; p. 240.
- File, Vertical. F. P. Read. No. 1,323,202; Nov. 25; v. 268; p. 702.
- Filing appliance. E. N. Aiken. No. 1,298,150; Mar. 25; v. 260; p. 604.
- Filing appliance. J. Eagles. No. 1,290,135; Jan. 7; v. 258; p. 30.
- Filing appliance. H. J. Hick. No. 1,291,881; Jan. 21; v. 257; p. 499.
- Filing appliance. H. J. Hick. No. 1,293,773; Feb. 11; v. 259; p. 216.
- Filing appliance. H. J. Hick. No. 1,299,573; Apr. 8; v. 261; p. 245.
- Filing appliance. H. J. Hick. No. 1,299,724; Apr. 8; v. 261; p. 280.
- Filing appliance. H. J. Hick. No. 1,299,725; Apr. 8; v. 261; p. 281.
- Filing appliance. E. S. Lyons. No. 1,299,746; Apr. 8; v. 261; p. 285.
- Filing appliance. E. T. Silvius. No. 1,299,246; Apr. 1; v. 261; p. 143.
- Filing appliance. E. T. Silvius. No. 1,299,247; Apr. 1; v. 261; p. 143.
- Filing-appliance case. H. F. Pollock and H. J. Hick. No. 1,299,607; Apr. 8; v. 261; p. 253.
- Filing-cabinet. W. H. Bassinger. No. 1,312,672; Aug. 12; v. 265; p. 185.
- Filing-cabinet. L. T. Kuehl. No. 1,304,991; May 27; v. 262; p. 574.
- Filing-cabinet. C. B. Ulrich. No. 1,306,728; June 17; v. 263; p. 345.
- Filing-case. I. E. Phelps. No. 1,325,041; Dec. 16; v. 269; p. 449.
- Filing device, Rotary. H. J. Waite. No. 1,291,296; Jan. 14; v. 258; p. 330.
- Filing drawings, sheets of paper, linen, &c., Drawer for. R. Kirk. No. 1,306,851; June 17; v. 263; p. 367.
- Filing-folders, Machine for making. C. F. Anderson. No. 1,325,771; Dec. 23; v. 269; p. 602.
- Filing-machine. E. C. Brull. No. 1,322,873; Nov. 25; v. 268; p. 639.
- Filing-machine. G. Heinonen. No. 1,295,496; Feb. 25; v. 259; p. 674.
- Filing system. F. L. MacDonagh. No. 1,296,681; Mar. 11; v. 260; p. 230.
- Filing units of intelligence. W. F. Schmidt. No. 1,305,939; June 3; v. 263; p. 135.
- Filler. O. F. Carlson. No. 1,322,535; Nov. 25; v. 268; p. 576.
- Filler cap and lubricator. J. Horvath. No. 1,290,999; Jan. 14; v. 258; p. 261.
- Filler-cover. E. D. Cullison. No. 1,314,306; Aug. 26; v. 265; p. 548.
- Filling apparatus. F. L. Jefferies and W. Spain. No. 1,300,274; Apr. 15; v. 261; p. 427.
- Filling-feeder. J. Goterch. No. 1,290,973; Jan. 14; v. 258; p. 256.
- Filling-machine. N. Dertouzos. No. 1,325,437; Dec. 16; v. 269; p. 522.
- Filling-machine. K. Kiefer. No. 1,313,301; Aug. 19; v. 265; p. 324.
- Filling-machine. A. V. Neal. No. 1,300,758; Apr. 15; v. 261; p. 530.
- Filling-machine. O. I. Waring. No. 1,294,579; Feb. 18; v. 259; p. 440.
- Filling machine. Pan-. J. F. Mallinckrodt. No. 1,312,640; Aug. 12; v. 265; p. 180.
- Filling material, Preparing. J. B. Evans. No. 1,292,282; Jan. 21; v. 258; p. 599.
- Filling-rack. H. H. Williams. No. 1,317,534; Sept. 30; v. 266; p. 675.
- Fillet material. J. E. Washburn and A. E. Shaw. No. 1,303,430; May 13; v. 262; p. 207.
- Film-advancing means. J. A. Le Roy. No. 1,311,238; July 29; v. 264; p. 724.
- Film and film-sprocket. O. J. Holmes. No. 1,299,469; Apr. 8; v. 261; p. 222.
- Film-carrying device. G. L. Penny. No. 1,325,372; Dec. 16; v. 269; p. 510.
- Film-clip. G. E. Tornsjö. No. 1,317,243; Sept. 30; v. 266; p. 620.
- Film. Color positive. P. D. Brewster. No. 1,308,538; July 1; v. 264; p. 97.
- Film-developing device. J. R. Oliver. No. 1,302,700; May 6; v. 262; p. 42.
- Film-developing, Method and apparatus for daylight. M. J. Shiels. No. 1,317,398; Sept. 30; v. 266; p. 649.
- Film-feed, Auxiliary. W. Wenderhold. No. 1,315,355; Sept. 9; v. 266; p. 171.
- Film-gate. C. J. Peterson. No. 1,305,405; June 3; v. 263; p. 33.
- Film-guide. J. G. O'Hara. No. 1,308,443; July 1; v. 264; p. 79.
- Film-guide control. C. Uebelmesser. No. 1,300,057; Apr. 8; v. 261; p. 354.
- Film-guide control. C. Uebelmesser. (Reissue). No. 14,694; July 22; v. 264; p. 676.
- Film-hanger. C. F. Bellemere. No. 1,294,379; Feb. 18; v. 259; p. 393.
- Film holding and advancing means. V. M. Harris. No. 1,318,868; Oct. 14; v. 267; p. 291.
- Film-indicator. C. J. and C. T. A. Sibbald. No. 1,303,732; May 13; v. 262; p. 261.
- Film-joining apparatus. M. Metzger. No. 1,324,686; Dec. 9; v. 269; p. 322.
- Film-mending apparatus. E. Schneider. No. 1,310,215; July 15; v. 264; p. 472.
- Film-receptacle and support therefor. C. Uebelmesser. No. 1,320,589; Nov. 4; v. 268; p. 43.
- Film-reel. C. F. Jenkins. No. 1,322,114; Nov. 18; v. 268; p. 444.
- Film-reel. S. Kohn. No. 1,307,554; June 24; v. 263; p. 529.
- Film-reel. E. G. Niess-Waner. No. 1,325,450; Dec. 16; v. 269; p. 525.
- Film-reel for projecting-machines, Rewinding. E. G. Wennerblad. No. 1,298,427; Mar. 25; v. 260; p. 663.
- Film-reeling mechanism. F. McMillan. No. 1,326,410; Dec. 30; v. 269; p. 758.
- Film-rewinder. J. H. Genter. No. 1,313,084; Aug. 12; v. 265; p. 626.
- Film-rewinder. C. G. Skillin. No. 1,318,020; Oct. 7; v. 267; p. 69.
- Film-socket. H. H. Ashinger. No. 1,297,432; Mar. 18; v. 260; p. 426.
- Film-splicing tool. H. C. Conord. No. 1,319,209; Oct. 21; v. 267; p. 3.
- Film-strips, Machine for securing reinforcing-bands to. J. J. Dilks. No. 1,294,882; Feb. 18; v. 259; p. 512.
- Film-treating apparatus. V. C. de Ybarrodo. No. 1,319,026; Oct. 14; v. 267; p. 322.
- Film winding and rewinding apparatus. J. C. Ramsber. No. 1,313,733; Aug. 19; v. 265; p. 405.
- Film-winding device. W. J. Parkinson, W. A. M. Welles, and P. W. Tierney. No. 1,308,991; July 8; v. 264; p. 209.
- Film-winding mechanism. J. C. Youngblood. No. 1,320,818; Nov. 4; v. 268; p. 86.
- Film-wiping apparatus. F. B. Thompson. No. 1,299,266; Apr. 1; v. 261; p. 148.
- Films. Coloring cinematographic. A. Wyckoff and M. Handschigl. No. 1,303,836; May 13; v. 262; p. 231.
- Films. Device for developing roll. C. L. Bambrick. No. 1,322,398; Nov. 18; v. 268; p. 499.
- Films. Machine for and art of coloring cinematographic. A. Wyckoff and M. Handschigl. No. 1,303,837; May 13; v. 262; p. 232.
- Films. Means for lubricating. A. Weiss. No. 1,308,385; July 1; v. 264; p. 69.
- Films. Process and apparatus for making wax. H. J. Sommer and P. Saha. No. 1,321,401; Nov. 11; v. 268; p. 261.
- Films. Treating cinematograph. A. Hamburger. No. 1,308,709; July 1; v. 264; p. 128.
- Filter. D. A. Corey. No. 1,295,006; Feb. 18; v. 259; p. 539.
- Filter. H. Desrumaux. No. 1,318,363; Oct. 14; v. 267; p. 195.
- Filter. E. M. Knight. No. 1,318,388; Oct. 14; v. 267; p. 200.
- Filter. C. H. Monroe. No. 1,304,504; May 20; v. 262; p. 445.
- Filter. G. Moore. No. 1,296,685; Mar. 11; v. 260; p. 231.
- Filter. E. Northrup. No. 1,293,173; Feb. 4; v. 259; p. 46.
- Filter. J. D. Ramsey. No. 1,294,164; Feb. 11; v. 259; p. 308.
- Filter. E. J. Sweetland. No. 1,292,534; Jan. 28; v. 258; p. 680.
- Filter. E. J. Sweetland. No. 1,305,317; June 3; v. 263; p. 17.
- Filter. E. J. Sweetland. No. 1,313,929; Aug. 26; v. 265; p. 476.
- Filter. E. Zahm and C. A. Nagel. No. 1,294,018; Feb. 11; v. 259; p. 274.
- Filter, Air-. A. O. Craven. No. 1,316,144; Sept. 16; v. 266; p. 329.
- Filter, Air-. V. Di Sante. No. 1,319,572; Oct. 21; v. 267; p. 452.
- Filter, Air-. V. Di Sante. No. 1,319,573; Oct. 21; v. 267; p. 452.
- Filter, Air-. V. Di Sante. No. 1,319,574; Oct. 21; v. 267; p. 452.
- Filter and making same. G. Moore. No. 1,309,330; July 8; v. 264; p. 272.
- Filter apparatus. H. M. Nichols. No. 1,302,832; May 6; v. 262; p. 67.
- Filter. Canteen-. T. Imaizumi. No. 1,308,242; July 1; v. 264; p. 43.
- Filter. Cistern-. C. P. Bettenga. No. 1,321,503; Nov. 11; v. 268; p. 280.
- Filter element. K. Kiefer. No. 1,311,280; July 29; v. 264; p. 732.
- Filter for cyaniding systems. A. F. Tanner. No. 1,317,835; Oct. 7; v. 267; p. 33.
- Filter for wall-registers, Air-. E. J. Drew. No. 1,319,763; Oct. 28; v. 267; p. 510.

- Filter-hood mechanism. H. N. Kilby. No. 1,311,077; July 22; v. 264; p. 662.
- Filter-leaf construction. E. J. Sweetland. No. 1,323,421; Dec. 2; v. 269; p. 37.
- Filter leaf or disk. O. J. Salisbury. No. 1,293,555; Feb. 4; v. 259; p. 135.
- Filter, Light-. H. T. Clarke. No. 1,293,039; Feb. 4; v. 259; p. 15.
- Filter medium or other article of manufacture. E. J. Sweetland. No. 1,304,918; May 27; v. 262; p. 561.
- Filter, Pocket-. J. Endreson. No. 1,292,737; Jan. 28; v. 258; p. 730.
- Filter-press devices, Joint for. G. F. Miller. No. 1,313,318; Aug. 19; v. 265; p. 327.
- Filter-press plate. G. F. Miller. No. 1,308,438; July 1; v. 264; p. 78.
- Filter-presses, Means for indicating the thickness of cake formation in. D. T. Nicholson. No. 1,299,996; Apr. 8; v. 261; p. 340.
- Filter-scraper shifter, Automatic. P. D. Sidey and G. L. Harley. No. 1,296,865; Mar. 11; v. 260; p. 273.
- Filter, Upright multistage. H. A. Hills. No. 1,294,463; Feb. 18; v. 259; p. 414.
- Filter, Water-. C. M. Trekell. No. 1,302,731; May 6; v. 262; p. 47.
- Filters, Automatic sluicing device for. R. H. Moore and J. T. Buzzo. No. 1,325,449; Dec. 16; v. 269; p. 524.
- Filters in filtering condition, Maintaining. M. H. Kuryla. No. 1,302,813; May 6; v. 262; p. 63.
- Filtering apparatus. R. Gaiguera y Gonzalez. No. 1,292,758; Jan. 28; v. 258; p. 734.
- Filtering apparatus. M. H. Kuryla. No. 1,302,812; May 6; v. 262; p. 63.
- Filtering apparatus. C. S. Smith. No. 1,293,649; Feb. 4; v. 259; p. 157.
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- Filtering apparatus. H. E. Stone. No. 1,316,465; Sept. 16; v. 266; p. 389.
- Filtering device, Laboratory. C. P. Grimwood. No. 1,316,789; Sept. 23; v. 266; p. 499.
- Filtering-machine, Centrifugal. A. Kendrick. No. 1,293,114; Feb. 4; v. 259; p. 33.
- Filtering mediums, Manufacturing carbonaceous. M. Weinrich. No. 1,308,826; July 8; v. 264; p. 178.
- Filtering-press. J. P. McGlaughlin. No. 1,292,342; Jan. 21; v. 258; p. 614.
- Finder. J. Becker. No. 1,296,156; Mar. 4; v. 260; p. 79.
- Finder. J. Becker. No. 1,305,984; June 3; v. 263; p. 143.
- Finder-starting system. A. E. Lundell. No. 1,291,959; Jan. 21; v. 258; p. 521.
- Finger and base, Contact-. I. Deutsch. No. 1,315,950; Sept. 16; v. 266; p. 293.
- Finger-bar. J. P. Wilson. No. 1,315,891; Sept. 9; v. 266; p. 263.
- Finger-exerciser. G. H. Hermansen. No. 1,290,742; Jan. 7; v. 258; p. 176.
- Finger-guard for children. W. H. Cade. No. 1,319,692; Oct. 28; v. 267; p. 497.
- Finger-hook, Adjustable. R. N. Lyon and J. J. Hill. No. 1,322,458; Nov. 18; v. 268; p. 510.
- Finger-print table. P. A. Flak. No. 1,290,154; Jan. 7; v. 258; p. 34.
- Finger-ring. J. Dinhofer. No. 1,308,894; July 8; v. 264; p. 191.
- Finger-ring. G. E. Feagans. No. 1,325,840; Dec. 23; v. 269; p. 615.
- Finger-ring. H. R. Grossman. No. 1,307,398; June 24; v. 263; p. 501.
- Finger-ring. D. H. McKellar. No. 1,309,647; July 15; v. 264; p. 369.
- Finger-ring. A. Schmidt. No. 1,296,435; Mar. 4; v. 260; p. 138.
- Finger-tip protector. D. A. M. Sansotta. No. 1,306,442; June 10; v. 263; p. 260.
- Fingers and adjusting same, Mounting for contact-. C. S. Snively. No. 1,309,108; July 8; v. 264; p. 232.
- Finishing-machine. B. F. Stowell. No. 1,301,190; Apr. 22; v. 261; p. 658.
- Finishing-tool. F. Baumann. No. 1,300,325; Apr. 15; v. 261; p. 438.
- Fire-alarm. W. M. Dana and C. C. Palmer. No. 1,296,270; Mar. 4; v. 260; p. 104.
- Fire-alarm. E. Molencik. No. 1,292,009; Jan. 21; v. 258; p. 533.
- Fire-alarm. C. Peterson. No. 1,322,336; Nov. 18; v. 268; p. 486.
- Fire-alarm. J. H. Smidley. No. 1,309,916; July 15; v. 264; p. 418.
- Fire-alarm. W. H. Vogtlander. No. 1,294,207; Feb. 11; v. 259; p. 319.
- Fire-alarm and watchman's service signal system, Combined. A. W. Hitchcock. No. 1,295,502; Feb. 25; v. 259; p. 676.
- Fire-alarm apparatus. A. E. Allen. No. 1,303,005; May 6; v. 262; p. 100.
- Fire-alarm apparatus, Automatic. E. A. Lowe. No. 1,303,082; May 6; v. 262; p. 114.
- Fire-alarm, Automatic. F. A. Swan. No. 1,326,304; Dec. 30; v. 269; p. 738.
- Fire-alarm-box attachment. P. Eifried. No. 1,311,881; Aug. 5; v. 265; p. 6.
- Fire-alarm electric switch. G. W. De Witt. No. 1,300,134; Apr. 8; v. 261; p. 371.
- Fire-alarm indicator. F. M. Stacy and W. F. Woods. No. 1,297,268; Mar. 11; v. 260; p. 362.
- Fire and draft regulating system. C. D. Stewart and S. G. Down. No. 1,295,077; Feb. 18; v. 259; p. 555.
- Fire and explosion, Means for safeguarding against. P. Gungerich. No. 1,321,799; Nov. 11; v. 268; p. 336.
- Fire-box construction, Sectional-. C. Ducus. No. 1,322,484; Nov. 18; v. 268; p. 515.
- Fire-check. W. F. Somes. No. 1,294,966; Feb. 18; v. 259; p. 530.
- Fire-clays, Purifying. H. L. Kohler. No. 1,290,241; Jan. 7; v. 258; p. 56.
- Fire-door. W. H. Barry. No. 1,301,782; Apr. 22; v. 261; p. 774.
- Fire-door. F. A. Drab. No. 1,315,659; Sept. 9; v. 266; p. 225.
- Fire-door. S. C. Fisher. No. 1,308,006; June 24; v. 263; p. 612.
- Fire-door. H. C. Waldman. No. 1,293,626; Feb. 4; v. 259; p. 152.
- Fire-door, Automatic. W. B. Gervais. No. 1,290,169; Jan. 7; v. 258; p. 37.
- Fire-door-operating mechanism. S. H. Pudney. No. 1,315,155; Sept. 2; v. 266; p. 124.
- Fire-escape. W. M. Busby. No. 1,318,262; Oct. 7; v. 267; p. 115.
- Fire-escape. M. Caouette. No. 1,308,480; July 1; v. 264; p. 86.
- Fire-escape. E. H. Dietz. No. 1,296,052; Mar. 4; v. 260; p. 54.
- Fire-escape. L. R. Henderson. No. 1,292,772; Jan. 28; v. 258; p. 737.
- Fire-escape. J. Lazuka. No. 1,309,950; July 15; v. 264; p. 425.
- Fire-escape. J. A. Mattern. No. 1,300,752; Apr. 15; v. 261; p. 528.
- Fire-escape. A. G. Miller. No. 1,303,706; May 13; v. 262; p. 257.
- Fire-escape. J. B. Patterson. No. 1,301,734; Apr. 22; v. 261; p. 763.
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- Fire-escape. F. M. Potter. No. 1,318,797; Oct. 14; v. 267; p. 278.
- Fire-escape. W. E. Turner. No. 1,316,604; Sept. 23; v. 266; p. 465.
- Fire-escape. E. Wilson. No. 1,321,869; Nov. 18; v. 268; p. 400.
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- Fire-escape receptacle. A. L. Plush. No. 1,300,870; Apr. 15; v. 261; p. 553.
- Fire-extinguisher. J. August. No. 1,297,310; Mar. 18; v. 260; p. 401.
- Fire-extinguisher. E. R. Brodton. No. 1,315,279; Sept. 9; v. 266; p. 157.
- Fire-extinguisher. M. L. Dunbar. No. 1,314,468; Aug. 26; v. 265; p. 579.
- Fire-extinguisher. J. Fluker. No. 1,305,457; June 3; v. 263; p. 43.
- Fire-extinguisher. W. Grimshaw. No. 1,297,559; Mar. 18; v. 260; p. 452.
- Fire-extinguisher. B. P. Hall and W. Grimshaw. No. 1,294,260; Feb. 11; v. 259; p. 331.
- Fire-extinguisher. A. L. Hansen. No. 1,296,505; Mar. 4; v. 260; p. 153.
- Fire-extinguisher. J. T. Harrop, Jr. No. 1,299,721; Apr. 8; v. 261; p. 279.
- Fire-extinguisher. P. J. Hindmarsh. No. 1,309,624; July 15; v. 264; p. 364.
- Fire-extinguisher. M. G. Kopf. No. 1,302,673; May 6; v. 262; p. 36.
- Fire-extinguisher. W. F. Lauterbach. No. 1,302,678; May 6; v. 262; p. 37.
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- Fire-extinguisher. R. W. Lee. No. 1,308,546; July 1; v. 264; p. 98.
- Fire-extinguisher. A. Mathis. No. 1,293,850; Feb. 11; v. 259; p. 235.
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- Fire-extinguisher, Automatic. B. F. Mayo. No. 1,323,893; Dec. 2; v. 269; p. 126.
- Fire-extinguisher, Automatic. B. E. Mott. No. 1,319,965; Oct. 28; v. 267; p. 548.
- Fire-extinguisher bracket. B. Dorstrom. No. 1,314,186; Aug. 26; v. 265; p. 525.
- Fire-extinguisher, Chemical. W. H. Bandl. No. 1,298,157; Mar. 25; v. 260; p. 606.
- Fire-extinguisher, Chemical. W. H. Bandl. (Reissue.) No. 1,4753; Nov. 18; v. 268; p. 520.
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- Fire-extinguisher composition. H. S. Mork. No. 1,306,709; June 17; v. 263; p. 342.
- Fire-extinguisher holder, Portable. D. B. Smith. No. 1,297,024; Mar. 11; v. 260; p. 309.
- Fire-extinguisher, Portable. M. G. Kopf. No. 1,317,507; Sept. 30; v. 266; p. 670.
- Fire-extinguisher, Self-operating. J. W. Hughes. No. 1,297,172; Mar. 11; v. 260; p. 341.
- Fire-extinguisher system. J. W. Enright. No. 1,319,518; Oct. 21; v. 267; p. 441.
- Fire-extinguisher system, Stationary chemical-mixing. J. W. Enright. No. 1,311,059; July 22; v. 264; p. 659.
- Fire-extinguishing apparatus. F. A. Epps. No. 1,296,937; Mar. 11; v. 260; p. 290.
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- Fire-extinguishing apparatus, Chemical. J. R. Hamilton. No. 1,303,058; May 6; v. 262; p. 110.
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- Fire-kindler. A. J. Gerhardt. No. 1,308,009; June 24; v. 263; p. 613.
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- Fire-tube boiler. J. D. MacLachlan. No. 1,304,496; May 20; v. 262; p. 444.
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- Firearm, Automatic gas-operated. J. C. Sturgeon. No. 1,290,852; Jan. 7; v. 258; p. 200.
- Firearm-barrel-cooling mechanism. J. C. Sturgeon. No. 1,290,853; Jan. 7; v. 258; p. 200.
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- Fish-bait, Artificial. H. L. Gottschalk. No. 1,318,073; Oct. 7; v. 267; p. 79.
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- Fish-cleaning machine. N. C. Nicholson. No. 1,316,850; Sept. 23; v. 266; p. 510.
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- Fish curing and preserving apparatus. C. G. Ullin. No. 1,290,421; Jan. 7; v. 258; p. 98.
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- Fishing-rod. J. C. Caldwell. No. 1,319,268; Oct. 21; v. 267; p. 394.
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- Fishing-rod and cane, Combined. S. Silwinski. No. 1,310,452; July 22; v. 264; p. 546.
- Fishing-rod handle. H. C. Kee. No. 1,318,085; Oct. 7; v. 267; p. 80.
- Fishing-rod support. M. J. Otto. No. 1,321,842; Nov. 18; v. 268; p. 395.
- Fishing-signal. J. E. Monighan. No. 1,309,365; July 8; v. 264; p. 279.
- Fishing-tackle. R. Dingwell. No. 1,295,448; Feb. 25; v. 259; p. 663.



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- Fishing-tackle. H. M. Law. No. 1,294,281; Feb. 11; v. 259; p. 336.  
 Fishing-tackle. M. W. Obermiller. No. 1,292,860; Jan. 28; v. 258; p. 758.  
 Fishing-tackle device. W. F. Darling. No. 1,296,370; Mar. 4; v. 260; p. 125.  
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 Fishing-tool. S. S. Drake. No. 1,290,127; Jan. 7; v. 258; p. 28.  
 Fishing-tool. V. H. Francis. No. 1,324,500; Dec. 9; v. 269; p. 287.  
 Fishing-tool. A. R. Heaton. No. 1,295,492; Feb. 25; v. 259; p. 674.  
 Fishing-tool. C. L. Nichols. No. 1,204,940; Feb. 18; v. 259; p. 524.  
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 Flag. S. C. Wilson. No. 1,303,623; May 13; v. 262; p. 242.  
 Flag-bracket. E. S. Mowry. No. 1,204,518; Feb. 18; v. 259; p. 427.  
 Flag-controlling apparatus. A. Miller. No. 1,298,539; Mar. 25; v. 260; p. 688.  
 Flag-holder. A. G. Billington. No. 1,312,947; Aug. 12; v. 265; p. 239.  
 Flag-holder. C. S. Deibel and L. E. Lawlor. No. 1,308,340; July 1; v. 264; p. 61.  
 Flag-holder. F. C. Hartung. No. 1,319,334; Oct. 21; v. 267; p. 406.  
 Flag-holder. M. W. Schmidt. No. 1,312,426; Aug. 5; v. 265; p. 108.  
 Flag-holder. H. M. Siemann. No. 1,325,807; Dec. 23; v. 269; p. 609.  
 Flag-holder. M. Skretting. No. 1,296,866; Mar. 11; v. 260; p. 273.  
 Flag non-entangling device. O. K. Newell. No. 1,298,550; Mar. 25; v. 260; p. 690.  
 Flag-raising device. J. Mader. No. 1,321,837; Nov. 18; v. 268; p. 394.  
 Flag-support. B. W. Davis. No. 1,300,352; Apr. 15; v. 261; p. 444.  
 Flag-supporting device. J. Robinson. No. 1,294,170; Feb. 11; v. 259; p. 310.  
 Flag-supporting element. J. G. Bixby. No. 1,294,032; Feb. 11; v. 259; p. 278.  
 Flag-wheel for radiator-caps. J. Gabriella. No. 1,291,472; Jan. 14; v. 258; p. 372.  
 Flags and the like, Antifouling device for. O. Klamroth. No. 1,306,915; June 17; v. 263; p. 379.  
 Flags, emblems, &c., Support for. L. V. Aronson. No. 1,325,973; Dec. 23; v. 269; p. 639.  
 Flags, Extension-staff and container for. A. Coe. No. 1,305,885; June 3; v. 263; p. 124.  
 Flags, &c., Holder for. F. O. von Tobel. No. 1,314,549; Sept. 2; v. 266; p. 14.  
 Flagpole. H. A. Hoffman. No. 1,317,445; Sept. 30; v. 266; p. 658.  
 Flagpole, Collapsible. F. Lindstaedt. No. 1,297,578; Mar. 18; v. 260; p. 456.  
 Flagpole-supporting device. J. H. Connelly. No. 1,296,049; Mar. 4; v. 260; p. 53.  
 Flagpoles, Flag-supporting attachment for. T. G. Walpuski and W. F. Koch. No. 1,324,439; Dec. 9; v. 269; p. 275.  
 Flagstaff. F. D. Crichton. No. 1,295,274; Feb. 25; v. 259; p. 624.  
 Flagstaff. O. L. McCormack. No. 1,302,190; Apr. 29; v. 261; p. 880.  
 Flagstaff. C. H. Reed and W. J. Von Buchwald. No. 1,320,412; Nov. 4; v. 268; p. 11.  
 Flagstaff-holder. S. Obolowicz. No. 1,317,590; Sept. 30; v. 266; p. 687.  
 Flame-regulator, Automatic. H. Michel. No. 1,297,887; Mar. 18; v. 260; p. 522.  
 Flame-spreaders and wick-stops, Lifter for. L. S. Chadwick. No. 1,306,101; June 10; v. 263; p. 194.  
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 Flange-joint member and producing same. E. J. Hughes. No. 1,291,645; Jan. 14; v. 258; p. 412.  
 Flange-joint member and producing same. E. J. Hughes. No. 1,291,646; Jan. 14; v. 258; p. 412.  
 Flange-lubricator. T. F. Bellhouse. No. 1,296,907; Mar. 11; v. 260; p. 283.  
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 Flap-finishing machine. R. McClenathen. No. 1,321,139; Nov. 11; v. 268; p. 210.  
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 Flash-light. M. L. Kaplin. No. 1,311,899; Aug. 5; v. 265; p. 9.  
 Flash-light. H. M. Koretzky. No. 1,296,404; Mar. 4; v. 260; p. 133.  
 Flash-light and mirror, Combined. C. W. Dalberg. No. 1,304,856; May 27; v. 262; p. 550.  
 Flash-light and toilet article, Combination. A. N. and O. E. Freed. No. 1,321,026; Nov. 4; v. 268; p. 126.  
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 Flash-light attachment. A. C. Schopp. No. 1,320,934; Nov. 4; v. 268; p. 108.  
 Flash-light battery. A. S. Lyhne. No. 1,307,868; June 24; v. 263; p. 586.  
 Flash-light container. G. W. Wacker. No. 1,316,870; Sept. 23; v. 266; p. 513.  
 Flash-light holder, Electric. J. De Yong. No. 1,318,850; Oct. 14; v. 267; p. 288.  
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 Flash-light, Portable. K. A. Cantin. No. 1,313,516; Aug. 19; v. 265; p. 364.  
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     Molder's flask. Molding-flask.  
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 Flat-irons, Automatic switch for. F. A. Schultz. No. 1,306,723; June 17; v. 263; p. 344.  
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 Flax, jute, hemp, and similar fibers for spinning, Machine for the preparation of. T. G. Mylchrest and W. Brown. No. 1,294,693; Feb. 18; v. 259; p. 467.  
 Flax-scutching. B. S. Summers. No. 1,306,032; June 10; v. 263; p. 181.  
 Fishing-machine. W. G. Gibbins. No. 1,307,732; June 24; v. 263; p. 561.  
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 Flexible brace. G. W. Smith. No. 1,317,330; Sept. 30; v. 266; p. 636.  
 Flexible connection. W. W. Lasker. No. 1,311,565; July 29; v. 264; p. 786.  
 Flexible-connection box. W. W. Lasker. No. 1,307,683; June 24; v. 263; p. 552.  
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 Flexible coupling. J. R. Dunham. No. 1,298,680; Apr. 1; v. 261; p. 13.  
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- Flexible coupling. B. E. Thomas. No. 1,325,545; Dec. 23; v. 269; p. 560.
- Flexible coupling. G. A. Ungar. No. 1,302,248; Apr. 29; v. 261; p. 981.
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- Flexible material. Machine for finishing the edges of. L. T. Remick. No. 1,310,579; July 22; v. 264; p. 570.
- Flexible metal tubing. Manufacture of. E. James. No. 1,303,674; May 13; v. 262; p. 251.
- Flexible pipe-coupling. E. F. Berry. No. 1,291,376; Jan. 14; v. 258; p. 348.
- Flexible-pipe coupling. E. Wanamaker. No. 1,309,830; July 15; v. 264; p. 402.
- Flexible pipe-joint. H. E. Field. No. 1,300,945; Apr. 15; v. 261; p. 570.
- Flexible pitman. E. A. Thurston. No. 1,313,764; Aug. 19; v. 265; p. 411.
- Flexible product having an acetate-of-cellulose base. J. Dupont. No. 1,317,276; Sept. 30; v. 266; p. 626.
- Flexible rules. Guide and holder for. W. J. Bousquet. No. 1,312,887; Aug. 12; v. 265; p. 227.
- Flexible-shaft attachment. O. Sperling. No. 1,320,582; Nov. 4; v. 268; p. 42.
- Flexible support. O. L. Badger. No. 1,309,605; July 15; v. 264; p. 361.
- Flexible transparent material and making same. W. Glaeser. No. 1,303,053; May 6; v. 262; p. 109.
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- Flight. Mechanical. A. L. W. Begg. No. 1,306,326; June 10; v. 263; p. 238.
- Float and making same. P. Mori. No. 1,299,851; Apr. 8; v. 261; p. 310.
- Float-controlled switch. L. W. Downes and W. S. Mayer. No. 1,307,189; June 17; v. 263; p. 429.
- Float feed-chamber and supply system therefor. C. L. Stokes. No. 1,303,610; May 13; v. 262; p. 239.
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- Floor-box. H. Krantz. No. 1,305,610; June 3; v. 263; p. 74.
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- Floor construction, Ferroconcrete. F. P. Billner. No. 1,307,179; June 17; v. 263; p. 427.
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- Floor-covering. Binding-strip for. L. L. Blake. No. 1,317,477; Sept. 30; v. 266; p. 665.
- Floor-coverings, Making. G. Prifield. No. 1,297,009; Mar. 11; v. 260; p. 306.
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- Floor or wall screed. T. Z. Merritt. (Reissue.) No. 14,652; May 20; v. 262; p. 451.
- Floor-polishing machine. E. Cavicchi. No. 1,294,398; Feb. 18; v. 259; p. 398.
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- Floor sanding and polishing machine. W. G. Johnson. No. 1,316,841; Sept. 23; v. 266; p. 508.
- Floor, stair, and the like covering. P. K. Saponoff. No. 1,292,889; Jan. 28; v. 258; p. 765.
- Floor structure. E. V. Johnson. No. 1,321,213; Nov. 11; v. 268; p. 225.
- Floors, Apparatus for constructing. A. J. Widmer. No. 1,291,325; Jan. 14; v. 258; p. 336.
- Floors, &c. Composition for. F. Romano. No. 1,317,525; Sept. 30; v. 266; p. 674.
- Floors, roofs, &c. Means for making. A. A. Pauly. No. 1,324,517; Dec. 9; v. 269; p. 290.
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- Flour storing, elevating, and sifting apparatus. H. H. Hackstedde. No. 1,320,684; Nov. 4; v. 268; p. 61.
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- Flow-meter. H. H. Maplesden. No. 1,291,056; Jan. 14; v. 258; p. 275.
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- Fluid-power transmission. D. C. Baker and G. H. Derrick. No. 1,317,415; Sept. 30; v. 266; p. 652.
- Fluid-pressure-actuated motors, Electric control of. H. Rowntree. No. 1,292,077; Jan. 21; v. 258; p. 550.
- Fluid-pressure apparatus. A. L. Knight. No. 1,300,281; Apr. 15; v. 261; p. 420.
- Fluid-pressure apparatus, Sliding joint of. M. C. Rolland. No. 1,325,996; Dec. 23; v. 269; p. 644.
- Fluid-pressure brake. W. E. Dean. No. 1,295,010; Feb. 18; v. 259; p. 540.
- Fluid-pressure brake. W. V. Turner. No. 1,294,978; Feb. 18; v. 259; p. 533.
- Fluid-pressure brake. W. V. Turner. No. 1,297,512; Mar. 18; v. 260; p. 442.
- Fluid-pressure brake. W. V. Turner. No. 1,297,518; Mar. 18; v. 260; p. 444.
- Fluid-pressure brake. W. V. Turner. No. 1,309,786; July 15; v. 264; p. 394.
- Fluid-pressure brake. W. V. Turner. No. 1,309,788; July 15; v. 264; p. 394.
- Fluid-pressure brake. W. V. Turner. No. 1,312,649; Aug. 12; v. 265; p. 181.
- Fluid-pressure brake. W. V. Turner. No. 1,314,168; Aug. 26; v. 265; p. 521.
- Fluid-pressure brake. W. V. Turner. No. 1,316,206; Sept. 16; v. 266; p. 341.
- Fluid-pressure brake device. W. V. Turner. No. 1,297,520; Mar. 18; v. 260; p. 444.
- Fluid-pressure brake device. W. V. Turner. No. 1,299,270; Apr. 1; v. 261; p. 149.
- Fluid-pressure brake equipment. W. V. Turner. No. 1,297,517; Mar. 18; v. 260; p. 443.
- Fluid-pressure coupling. L. D. Woodruff. No. 1,305,582; June 3; v. 263; p. 68.
- Fluid-pressure device, Rotary. O. W. Johnson. No. 1,297,693; Mar. 18; v. 260; p. 481.
- Fluid-pressure indicator. J. G. Paulin. No. 1,315,858; Sept. 9; v. 266; p. 262.
- Fluid-pressure jack. E. Graham and G. Bowman. No. 1,323,688; Dec. 2; v. 269; p. 87.
- Fluid-pressure, Method and apparatus for applying. S. Cooper. No. 1,312,615; Aug. 12; v. 265; p. 175.
- Fluid-pressure-operated jack. W. G. Canfield. No. 1,297,091; Mar. 11; v. 260; p. 324.
- Fluid-pressure system. J. N. Weikly. No. 1,300,529; Apr. 15; v. 261; p. 482.
- Fluid-pressure systems, Mounting for. E. P. Larsh. No. 1,308,850; July 8; v. 264; p. 182.
- Fluid-pressure transmission mechanism. G. W. Churchill. No. 1,298,178; Mar. 25; v. 260; p. 610.
- Fluid-proportioning apparatus. J. W. Gamble. No. 1,290,538; Jan. 7; v. 258; p. 127.
- Fluid-proportioning apparatus. R. D. B. Wright. No. 1,296,150; Mar. 4; v. 260; p. 77.
- Fluid-proportioning regulator. C. S. Collins and L. Roesel. No. 1,290,513; Jan. 7; v. 258; p. 121.
- Fluid-purifying apparatus. L. J. Nyvall. No. 1,290,647; Jan. 7; v. 258; p. 153.
- Fluid-regulator. F. H. Hopkins. No. 1,309,203; July 8; v. 264; p. 248.
- Fluid-supply tank, Automatic auxiliary. G. N. Miller. No. 1,325,649; Dec. 23; v. 269; p. 580.
- Fluid system, Pressure-. A. L. Parker. No. 1,315,683; Sept. 9; v. 266; p. 229.
- Fluid-tight plug or socket. A. J. Rowledge. No. 1,312,001; Aug. 5; v. 265; p. 27.
- Fluid-transmission mechanism. S. S. Greenfield. No. 1,297,347; Mar. 18; v. 260; p. 408.
- Fluid transmission or driving mechanism. J. O. and W. P. Schirmer. No. 1,292,091; Jan. 21; v. 258; p. 554.
- Fluid-treating apparatus. G. F. Goerner. No. 1,302,913; May 6; v. 262; p. 83.
- Fluids, Apparatus for mixing materials with. E. G. Loomis. No. 1,324,774; Dec. 9; v. 269; p. 338.
- Fluids, Apparatus for pasteurizing. S. M. Heulings. No. 1,310,017; July 15; v. 264; p. 436.
- Fluids, Mechanism for combining. J. E. Williamson and R. E. Milligan. No. 1,291,329; Jan. 14; v. 258; p. 337.
- Fluids, Method and apparatus for burning combustible. G. L. Reichhelm. No. 1,310,928; July 22; v. 264; p. 634.
- Fluids, Method of and means for intimate mixing of. H. E. La Bour. No. 1,318,774; Oct. 14; v. 267; p. 273.
- Fluids within carriers, Process and apparatus for the circulation of. A. Babendreer. No. 1,325,773; Dec. 23; v. 269; p. 602.
- Flume-gate. W. P. Harlan. No. 1,298,936; Apr. 1; v. 261; p. 73.
- Flush-closet tank. J. A. Egan. No. 1,325,934; Dec. 23; v. 269; p. 632.
- Flush mountings, Trip-reset for. C. Carson. No. 1,323,449; Dec. 2; v. 269; p. 42.
- Flush-tank bulb. J. W. Bozeman. No. 1,313,161; Aug. 12; v. 265; p. 282.
- Flush-tank bulb. F. T. Roberts. No. 1,313,914; Aug. 26; v. 265; p. 473.
- Flush-tank control. W. J. Callow. No. 1,290,905; Jan. 14; v. 258; p. 240.
- Flush-tank mechanism. W. E. Hinsdale. No. 1,296,520; Mar. 4; v. 260; p. 157.
- Flush-tank siphon mechanism. A. P. Richardson. No. 1,311,714; July 29; v. 264; p. 813.
- Flushing apparatus. R. A. Brooks. No. 1,315,207; Sept. 9; v. 266; p. 144.
- Flushing apparatus. L. H. Handy. No. 1,292,313; Jan. 21; v. 258; p. 607.
- Flushing apparatus. L. Meyer. No. 1,305,145; May 27; v. 262; p. 603.
- Flushing apparatus. F. Schuh. No. 1,299,789; Apr. 8; v. 261; p. 296.
- Flushing apparatus. W. A. Van Deusen. No. 1,308,382; July 1; v. 264; p. 68.
- Flushing device. E. M. Dickey. No. 1,323,580; Dec. 2; v. 269; p. 67.
- Flushing device. F. J. Wolff. No. 1,298,849; Apr. 1; v. 261; p. 54.
- Flushing device, Toilet-. M. Sakogawa. No. 1,308,301; July 1; v. 264; p. 54.
- Flux, Aluminium-solder. C. L. Bonsteel. No. 1,312,154; Aug. 5; v. 265; p. 57.
- Fly catcher and swatter. J. D. Wall and O. Anklam. No. 1,323,509; Dec. 2; v. 269; p. 54.
- Fly-catcher, Suction. H. Pakeman. No. 1,313,203; Aug. 12; v. 265; p. 290.
- Fly-escape screen. G. W. Mittelstaedt. No. 1,305,147; May 27; v. 262; p. 604.
- Fly-exits for screen doors and windows. R. B. Watson and J. C. Kitterman. No. 1,314,774; Sept. 2; v. 266; p. 56.
- Fly-guard. A. D. Kuney. No. 1,308,597; July 1; v. 264; p. 108.
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- Fly-screen. C. C. Tredway. No. 1,291,267; Jan. 14; v. 258; p. 323.
- Fly-swatter. E. E. Cullen. No. 1,326,577; Dec. 30; v. 269; p. 790.
- Fly-swatter. G. D. Henry. No. 1,315,186; Sept. 2; v. 266; p. 130.
- Fly-swatter. R. O. W. Ludke. No. 1,310,124; July 15; v. 264; p. 456.
- Fly-swatter. E. E. Thomas. No. 1,317,999; Oct. 7; v. 267; p. 64.
- Fly-swatter. W. W. Whaley. No. 1,293,591; Feb. 4; v. 259; p. 143.
- Fly-trap. L. S. Couplin. No. 1,290,717; Jan. 7; v. 258; p. 171.
- Fly-trap. O. Hansen. No. 1,292,459; Jan. 28; v. 258; p. 662.
- Fly-trap. J. Morisak. No. 1,308,439; July 1; v. 264; p. 78.
- Fly-trap. S. Navrot. No. 1,297,894; Mar. 18; v. 260; p. 524.
- Fly-trap. W. E. Petty. No. 1,297,728; Mar. 18; v. 260; p. 489.
- Fly-trap. J. M. Weir. No. 1,293,271; Feb. 4; v. 259; p. 69.
- Fly-trap for cattle. C. F. Merrill and E. E. Hall. No. 1,312,130; Aug. 5; v. 265; p. 52.
- Fly-trap garbage-cover. F. Langbein. No. 1,290,760; Jan. 7; v. 258; p. 180.
- Fly-traps, Machine for making spiral. F. C. Curtis. No. 1,298,180; Mar. 25; v. 260; p. 610.
- Flycatcher. J. C. Carlson. No. 1,324,727; Dec. 9; v. 269; p. 329.
- Flycatcher. G. M. Formby. No. 1,324,888; Dec. 16; v. 269; p. 421.
- Flycatcher. M. Kurka. No. 1,311,281; July 29; v. 264; p. 732.
- Flycatcher. T. C. Northcott. No. 1,311,704; July 29; v. 264; p. 811.
- Flycatcher. G. Sprengel. No. 1,297,267; Mar. 11; v. 260; p. 361.
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- Flytrap. B. Widmer. No. 1,318,369; Oct. 21; v. 267; p. 412.
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- Flying-machine. G. and U. Antoni. No. 1,317,413; Sept. 30; v. 266; p. 652.
- Flying-machine. J. Barto. No. 1,299,287; Apr. 1; v. 261; p. 153.
- Flying-machine. C. E. Burroughs. No. 1,320,839; Nov. 4; v. 268; p. 90.
- Flying-machine. F. Caproni. No. 1,325,230; Dec. 16; v. 269; p. 485.
- Flying-machine. C. R. Cavanagh. No. 1,297,795; Mar. 18; v. 260; p. 504.
- Flying-machine. N. Cartus. No. 1,324,996; Dec. 16; v. 269; p. 440.
- Flying-machine. H. H. Clayton. No. 1,299,395; Apr. 1; v. 261; p. 177.
- Flying-machine. J. C. Critchett. No. 1,294,774; Feb. 18; v. 259; p. 486.
- Flying-machine. W. I. Davis. No. 1,296,631; Mar. 11; v. 260; p. 218.
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- Flying-machine. A. Harb. No. 1,304,967; May 27; v. 262; p. 570.
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- Flying-machine. C. M. Heig. No. 1,310,619; July 22; v. 264; p. 577.
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- Flying-machine. L. Hinz and R. Koch. No. 1,295,751; Feb. 25; v. 259; p. 733.
- Flying-machine. A. Holland. No. 1,308,784; July 8; v. 264; p. 170.
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- Flying-machine. J. Kubish. No. 1,313,825; Aug. 19; v. 265; p. 422.
- Flying-machine. A. W. Lightburne. No. 1,325,696; Dec. 23; v. 269; p. 558.
- Flying-machine. J. H. Peters and P. Hardies. No. 1,307,021; June 17; v. 263; p. 399.
- Flying-machine. G. Robertson. No. 1,302,435; Apr. 29; v. 261; p. 928.
- Flying-machine. C. Simanik. No. 1,306,082; June 10; v. 263; p. 190.
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- Flying-machine. J. B. Sumner and R. W. Hicking. No. 1,292,602; Jan. 28; v. 258; p. 712.
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- Flying-machine. O. Williams. No. 1,319,821; Oct. 28; v. 267; p. 521.
- Flying-machine. F. E. Wilson. No. 1,315,586; Sept. 9; v. 266; p. 213.
- Flying-machine level. F. Teal. No. 1,299,633; Apr. 8; v. 261; p. 260.
- Flying-machine safety device. F. Fugiel. No. 1,301,247; Apr. 22; v. 261; p. 669.
- Flying-machine wing-plane. W. P. Thompson. No. 1,291,260; Jan. 14; v. 258; p. 321.
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- Focusing device. J. Kirby, Jr. No. 1,295,524; Feb. 25; v. 259; p. 682.
- Focusing device. J. Kirby, Jr. No. 1,298,964; Apr. 1; v. 261; p. 80.
- Focusing device. J. Kirby, Jr. No. 1,319,874; Oct. 28; v. 267; p. 532.
- Focusing device. L. D. Shafer and L. J. Bollinger. No. 1,298,582; Mar. 25; v. 260; p. 696.
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- Foldable box. V. Ruggiero. No. 1,307,757; June 24; v. 263; p. 565.
- Foldable table. V. M. Gay. No. 1,308,350; July 1; v. 264; p. 62.
- Foldable table and valise. J. W. Hominuke. No. 1,292,468; Jan. 28; v. 258; p. 664.
- Folder. M. W. Brueshaber. No. 1,302,894; May 6; v. 262; p. 79.
- Folder device. F. M. and W. B. Pierce. No. 1,296,117; Mar. 4; v. 260; p. 69.
- Folding and cutting mechanism. H. A. W. Wood. No. 1,304,232; May 20; v. 262; p. 391.
- Folding and gathering device. A. Levett. No. 1,296,409; Mar. 4; v. 260; p. 134.
- Folding and interleaving machine. O. E. Teall. No. 1,290,801; Jan. 7; v. 258; p. 189.
- Folding and stacking machine. D. Reiser. No. 1,307,148; June 17; v. 263; p. 422.
- Folding box. A. Bovy. No. 1,324,873; Dec. 16; v. 269; p. 418.
- Folding box. L. W. Cole. No. 1,311,047; July 22; v. 264; p. 656.
- Folding box. A. O. Hubbard. No. 1,320,758; Nov. 4; v. 268; p. 75.
- Folding box. W. C. Kitt. No. 1,293,801; Feb. 11; v. 259; p. 223.
- Folding carriage or chair, Hand-propelled. A. T. Scorey. No. 1,300,033; Apr. 8; v. 261; p. 348.
- Folding carrier. M. Meyerson. No. 1,323,715; Dec. 2; v. 269; p. 92.
- Folding-case system. F. E. Lavielle. No. 1,317,026; Sept. 23; v. 266; p. 543.
- Folding chair. H. S. Applegate. No. 1,301,635; Apr. 22; v. 261; p. 742.
- Folding chair. F. Blando. No. 1,291,737; Jan. 21; v. 258; p. 464.
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- Folding clamp. L. J. Solberg. No. 1,310,551; July 22; v. 264; p. 564.
- Folding collecting mechanism. H. A. W. Wood and C. Nordfors. No. 1,321,581; Nov. 11; v. 268; p. 294.
- Folding crate or box. C. O. Shepherd. No. 1,323,109; Nov. 25; v. 268; p. 684.
- Folding device. J. R. Moffatt. No. 1,291,075; Jan. 14; v. 258; p. 281.
- Folding end-gate. J. A. Moxey. No. 1,308,189; July 1; v. 264; p. 33.
- Folding gate. T. E. Griffith. No. 1,290,176; Jan. 7; v. 258; p. 39.
- Folding implement. W. G. McGregor. No. 1,293,142; Feb. 4; v. 259; p. 39.
- Folding jar-rack. H. A. Hildreth. No. 1,317,443; Sept. 30; v. 266; p. 658.
- Folding-machine. R. J. M. Danley and L. A. Snyder. No. 1,293,357; Feb. 4; v. 259; p. 89.
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- Folding-machine. P. R. Glass. No. 1,312,532; Aug. 12; v. 265; p. 158.
- Folding-machine. P. R. Glass. No. 1,312,533; Aug. 12; v. 265; p. 158.
- Folding-machine. W. F. Lautenschlager. No. 1,294,919; Feb. 18; v. 259; p. 520.
- Folding-machine. W. F. Lautenschlager. No. 1,301,718; Apr. 22; v. 261; p. 760.
- Folding-machine. A. Novick. No. 1,298,775; Apr. 1; v. 261; p. 37.
- Folding-machine. R. C. Seymour. No. 1,312,458; Aug. 5; v. 265; p. 114.
- Folding-machine. H. Shapiro. No. 1,305,748; June 3; v. 263; p. 98.
- Folding-machine guide, Job. H. F. Schrock. No. 1,299,386; Apr. 1; v. 261; p. 175.
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- Folding machine, Sheet. A. M. MacFarland. No. 1,313,713; Aug. 19; v. 265; p. 402.
- Folding mechanism. A. Novick. No. 1,303,370; May 13; v. 262; p. 196.
- Folding package-box. A. W. Beers. No. 1,295,260; Feb. 25; v. 259; p. 620.
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- Folding seat. L. I. Williams. No. 1,307,840; June 24; v. 263; p. 581.
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- Folding stand. M. S. Warren. No. 1,291,304; Jan. 14; v. 258; p. 332.



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- Folding table. C. W. Coffin. No. 1,306,466; June 10; v. 263; p. 264.
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- Folding table. J. L. Mackey. No. 1,307,784; June 24; v. 263; p. 570.
- Folding table. G. J. Nichols and B. F. Orear. No. 1,314,751; Sept. 2; v. 266; p. 52.
- Folding table. O. M. Otte. No. 1,300,861; Apr. 15; v. 261; p. 551.
- Folding table. O. M. Otte. No. 1,300,862; Apr. 15; v. 261; p. 552.
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- Folding table. E. G. Schloss. No. 1,312,137; Aug. 5; v. 265; p. 54.
- Folding table and bench. H. M. Besner and M. Trach. No. 1,314,240; Aug. 26; v. 265; p. 536.
- Folding table and lunch-box, Combined. M. E. Rudy. No. 1,317,895; Oct. 7; v. 267; p. 44.
- Folding table or stand. M. Plasecki. No. 1,302,589; May 6; v. 262; p. 20.
- Fomentation-tank. C. C. McClintock. No. 1,314,681; Sept. 2; v. 266; p. 40.
- Food and producing same, Cattle and poultry. H. Hirsch. No. 1,291,518; Jan. 14; v. 258; p. 381.
- Food and production, Cereal. J. L. Kellogg. No. 1,321,753; Nov. 11; v. 268; p. 327.
- Food, Article of. H. A. Shepard. (Reissue.) No. 14,757; Nov. 18; v. 268; p. 521.
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- Food composition and preparing same. S. M. Wood. No. 1,311,843; July 29; v. 264; p. 837.
- Food composition and preparing same. S. M. Wood. No. 1,311,844; July 29; v. 264; p. 837.
- Food-container or lunch-box. W. J. Hotchkiss. No. 1,310,571; July 22; v. 264; p. 568.
- Food-cooler. C. G. Bewley. No. 1,293,005; Feb. 4; v. 259; p. 8.
- Food material, Apparatus for treating. J. D. Belton. No. 1,307,075; June 17; v. 263; p. 409.
- Food or other materials, Apparatus for treating. J. G. Goodhue. No. 1,290,734; Jan. 7; v. 258; p. 175.
- Food, Preserving. K. G. Falk and E. M. Frankel. No. 1,309,357; July 8; v. 264; p. 277.
- Food-preserving apparatus. O. P. Hall. No. 1,294,096; Feb. 11; v. 259; p. 292.
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- Food product. H. M. Heimerdinger. No. 1,295,160; Feb. 25; v. 259; p. 597.
- Food product and its manufacture. R. Douglas. No. 1,304,166; May 20; v. 262; p. 379.
- Food product, Apparatus for producing. H. M. Heimerdinger. No. 1,295,161; Feb. 25; v. 259; p. 598.
- Food product, Producing. H. M. Heimerdinger. No. 1,295,162; Feb. 25; v. 259; p. 598.
- Food products from fruits and vegetables and the products, Manufacturing. P. R. Welch. No. 1,295,943; Mar. 4; v. 260; p. 28.
- Food products, Machine for cutting or slicing. J. B. Miller. No. 1,296,102; Mar. 4; v. 260; p. 65.
- Food products, Peeling. E. C. Horst. No. 1,325,847; Dec. 23; v. 269; p. 617.
- Food production, Cereal. J. L. Kellogg. No. 1,321,754; Nov. 11; v. 268; p. 327.
- Foods, Preserving fugacious components of. W. A. and C. W. Trigg. No. 1,292,458; Jan. 28; v. 258; p. 662.
- Foodstuffs, Manufacture of assimilable organic phosphorus compound contained in vegetable. M. Girard. No. 1,290,971; Jan. 14; v. 258; p. 255.
- Foot-arch support, Self-acting. L. W. V. Wilms. No. 1,320,952; Nov. 4; v. 268; p. 112.
- Foot, Artificial. J. F. Rowley. No. 1,319,491; Oct. 21; v. 267; p. 436.
- Foot-cooler for automobiles. C. B. Souders. No. 1,316,111; Sept. 16; v. 266; p. 322.
- Foot-fender. R. Garvey. No. 1,301,426; Apr. 22; v. 261; p. 704.
- Foot-rail, Movable. H. H. Young. No. 1,311,940; Aug. 5; v. 265; p. 17.
- Foot-scraper. J. O. Roberts. No. 1,318,231; Oct. 7; v. 267; p. 110.
- Foot-support, Metatarsal and anterior. L. W. V. Wilms. No. 1,313,442; Aug. 19; v. 265; p. 350.
- Foot-supporter. A. E. Block. No. 1,302,760; May 6; v. 262; p. 52.
- Foot-throttle mechanism. F. C. Smith. No. 1,295,880; Feb. 25; v. 259; p. 647.
- Foot-treating appliance. H. A. Post. No. 1,315,035; Sept. 2; v. 266; p. 103.
- Foot-warmer. A. N. Benn. No. 1,290,882; Jan. 14; v. 258; p. 234.
- Foot-warmer. C. H. Buchanan. No. 1,307,615; June 24; v. 263; p. 540.
- Footrest. M. R. Evans. No. 1,321,903; Nov. 18; v. 268; p. 406.
- Footrest attachment. M. Shlivek. No. 1,316,336; Sept. 16; v. 266; p. 365.
- Footrest, Automobile. J. W. Deden. No. 1,316,180; Sept. 16; v. 266; p. 336.
- Footwear. W. H. Lambert. No. 1,303,565; May 13; v. 262; p. 231.
- Footwear and making same, Cushion-sole. J. A. Reid. No. 1,290,351; Jan. 7; v. 258; p. 82.
- Footwear, Cushion-sole. J. A. Reid. No. 1,290,352; Jan. 7; v. 258; p. 82.
- Force and suction device. E. Noppel. No. 1,304,196; May 20; v. 262; p. 384.
- Force, Apparatus for utilizing an expansive. H. A. Humphrey. No. 1,315,772; Sept. 9; v. 266; p. 245.
- Force-feed lubricator. C. Gustafson and K. Appelgren. No. 1,308,417; July 1; v. 264; p. 75.
- Force-feed lubricator. A. W. F. Manzel. No. 1,323,603; Dec. 2; v. 269; p. 71.
- Force-feed lubricator. H. L. McCullough. No. 1,309,740; July 15; v. 264; p. 386.
- Force-feed lubricator. W. J. Schlacks. No. 1,307,988; June 24; v. 263; p. 608.
- Force-feed lubricator. B. H. Skelly. No. 1,317,901; Oct. 7; v. 267; p. 46.
- Force-feed lubricator. B. H. Skelly. No. 1,323,554; Dec. 2; v. 269; p. 63.
- Force-feed lubricator. B. H. Skelly. No. 1,326,142; Dec. 23; v. 269; p. 671.
- Force-feed lubricator. J. Wilkinson. No. 1,300,798; Apr. 15; v. 261; p. 538.
- Forceps. E. Odell. No. 1,322,606; Nov. 25; v. 268; p. 590.
- Forceps, Combined tissue and needle-extracting. W. L. Gray. No. 1,292,455; Jan. 28; v. 258; p. 661.
- Forceps, Cutting. S. J. Brandeis. No. 1,290,501; Jan. 7; v. 258; p. 118.
- Forceps, Obstetrical. C. L. Whittington. No. 1,322,382; Nov. 18; v. 268; p. 496.
- Forge, Rivet. L. Crawford. No. 1,318,358; Oct. 14; v. 267; p. 194.
- Forging apparatus. J. C. Cromwell. No. 1,314,636; Sept. 2; v. 266; p. 31.
- Forging-block. M. F. Williams. No. 1,305,854; June 3; v. 263; p. 118.
- Forging, flanging, and other press. W. H. Morgan. No. 1,295,189; Feb. 25; v. 259; p. 604.
- Forging fulcrums. L. L. Whitney. No. 1,323,341; Dec. 2; v. 269; p. 22.
- Forging-machine. M. K. Hench. No. 1,290,741; Jan. 7; v. 258; p. 176.
- Forging-machine and the like safe device. J. R. Blakeslee. No. 1,300,240; Apr. 15; v. 261; p. 420.
- Forging-machine heading-slide. W. L. Clouse. No. 1,297,101; Mar. 11; v. 260; p. 326.
- Forging-manipulator. D. Kendall. No. 1,308,593; July 1; v. 264; p. 107.
- Fork. See—  
Hay-fork.  
Potato-fork.  
Pitchfork.
- Fork. H. J. Bigelow. No. 1,294,031; Feb. 11; v. 259; p. 277.
- Fork attachment. L. Lattimore. No. 1,309,949; July 15; v. 264; p. 425.
- Fork for handling cans. W. L. Friday. No. 1,294,440; Feb. 18; v. 259; p. 410.
- Fork, Kitchen. L. C. Raymond. No. 1,313,417; Aug. 19; v. 265; p. 346.
- Fork, Sanitary. C. W. Waller. No. 1,322,981; Nov. 25; v. 268; p. 660.
- Form, Canoe. P. Thompson. No. 1,323,125; Nov. 25; v. 268; p. 687.
- Form, Collar. W. D. White. No. 1,311,105; July 22; v. 264; p. 667.
- Form, Coupon. W. V. Davis. No. 1,315,472; Sept. 9; v. 266; p. 193.
- Form elements, Method of and apparatus for imposing. L. B. Fraser. No. 1,313,082; Aug. 12; v. 265; p. 266.
- Form, Hosiery-drying. G. O. Morton. No. 1,323,642; Dec. 2; v. 269; p. 78.
- Form, Necktie. H. Kohirogawa. No. 1,322,581; Nov. 25; v. 268; p. 585.
- Forms and containers from fibrous substances, Making. J. P. Raymond. No. 1,326,287; Dec. 30; v. 269; p. 735.
- Forms. Leg attachment for. P. M. Hotchkiss. No. 1,318,758; Oct. 14; v. 267; p. 270.
- Forms, Making. M. D. Phelan. No. 1,290,338; Jan. 7; v. 258; p. 79.
- Formers for milling-machines, Method and apparatus for generating. B. M. W. Hanson. No. 1,302,540; May 6; v. 262; p. 12.
- Forming bursting charges. C. L. Reese. No. 1,307,599; June 24; v. 263; p. 537.
- Forming-machine. J. W. Fitch. No. 1,303,189; May 6; v. 262; p. 135.
- Forming-press. J. D. Artz. No. 1,315,937; Sept. 16; v. 266; p. 291.
- Forming-tool. L. O. Henggi. No. 1,313,380; Aug. 19; v. 265; p. 339.
- Formates, Production of. F. J. Metzger. No. 1,313,312; Aug. 19; v. 265; p. 326.
- Formula-finder, Automatic. S. B. Haskell. No. 1,323,763; Dec. 2; v. 269; p. 101.

- Fort, Portable submarine. C. J. Lindquist. No. 1,291,034; Jan. 14; v. 258; p. 269.
- Foundations, Building. H. W. Tomlinson. No. 1,320,720; Nov. 4; v. 268; p. 67.
- Foundry-cores and substance for use therein, Forming sand. E. Hamelius. No. 1,308,524; July 1; v. 264; p. 94.
- Foundry-bask clamp. J. W. Dearsley. No. 1,309,613; July 15; v. 264; p. 362.
- Foundry-Basks, Bottom board for. H. C. Drumm. No. 1,321,812; Nov. 18; v. 268; p. 389.
- Foundry pattern composition and process and apparatus for using the same. C. M. Menefee. No. 1,303,097; May 6; v. 262; p. 118.
- Foundry use, Molding-machine for. J. B. Neesham. No. 1,318,101; Oct. 7; v. 267; p. 85.
- Fountain: *See—*  
 Dental - cuspidor bubble Poultry-fountain.  
 fountain. Sanitary drinking-fountain.  
 Drinking-fountain. Soda-fountain.  
 Hog-fountain. Stock-fountain.  
 Non - freezable automatic Watering-fountain.  
 fountain.
- Fountain, M. W. Lydon. No. 1,324,164; Dec. 9; v. 269; p. 221.
- Fountain-comb. A. R. Spielberger. No. 1,314,158; Aug. 26; v. 265; p. 519.
- Fountain-pen clip. E. A. Tischler. No. 1,320,946; Nov. 4; v. 268; p. 111.
- Fountain, Duplex stock-. W. A. McCollough. No. 1,303,569; May 13; v. 262; p. 232.
- \*Fountain-pen feed-bars, Machine for making. F. H. Mooney. No. 1,303,940; May 20; v. 262; p. 338.
- Fountain protector, Sanitary-drinking-. V. J. Cornaggia. No. 1,320,449; Nov. 4; v. 268; p. 17.
- Fowl-plucking device. A. G. Rieske. No. 1,323,492; Dec. 2; v. 269; p. 51.
- Frame: *See—*  
 Aeroplane-frame. Photographic - printing  
 Aeroplane landing-frame. frame.  
 Automobile-frame. Picture-frame.  
 Automobile chassis-frame. Plowshare-frame.  
 Automobile-top frame. Power-frame.  
 Bed-frame. Press-frame.  
 Bed-spring frame. Printing-frame.  
 Beehive-frame. Quilter-frame.  
 Bicycle-frame. Quilting-frame.  
 Box or crate frame. Razor-frame.  
 Broom-frame. Reclining frame.  
 Clock-frame. Reed and heddle-frame.  
 Contact-frame. Retouching-frame.  
 Crochet-frame. Riveting-tool frame.  
 Curtain-light frame. Saw-frame.  
 Cycle-frame. Screen-frame.  
 Desk-frame. Spinning-frame.  
 Display-frame. Stretching-frame.  
 Door-frame. Tent-frame.  
 Dynamo-frame. Testing-frame.  
 Electric-machine frame. Tractor-frame.  
 Embroidery-frame. Truck-frame.  
 Eyeglass-frame. Truck side frame.  
 Hoisting-frame. Umbrella-frame.  
 Index or display frame. Unit-frame.  
 Jaw-crusher frame. Vehicle-frame.  
 Knockdown picture-frame. Window-frame.  
 Loom-frame. Window-panel - supporting  
 Metallic frame. frame.  
 Motor-frame. Window-screen frame.  
 Motor-vehicle frame. Wire frame.  
 Net-frame.
- Frame, B. E. Moorehous. No. 1,315,196; Sept. 2; v. 266; p. 132.
- Frame for cleaning carpets and rugs, Adjustable. F. Burgener. No. 1,315,656; Sept. 9; v. 266; p. 224.
- Framed-elements mounting. E. A. Hawthorne. No. 1,299,723; Apr. 8; v. 261; p. 280.
- Framework for display publicity by machine. C. R. Finch. No. 1,307,293; June 17; v. 263; p. 448.
- Framing construction. D. J. Murnane. No. 1,300,757; Apr. 15; v. 261; p. 529.
- Framing device. C. Uebelmesser. No. 1,291,275; Jan. 14; v. 258; p. 324.
- Framing-guide. R. R. Nance. No. 1,295,788; Feb. 25; v. 259; p. 742.
- Framing mechanism. A. F. Victor. No. 1,322,658; Nov. 25; v. 268; p. 599.
- Frangible washer. C. G. de Laval. No. 1,324,036; Dec. 9; v. 269; p. 197.
- Friction-brake, Expanding. G. Rischmuller. No. 1,316,806; Sept. 23; v. 266; p. 502.
- Friction-brake mechanism. A. J. Hartley. No. 1,322,304; Nov. 18; v. 268; p. 480.
- Friction-clutch. H. M. Norris. (Reissue.) No. 1,4755; Nov. 18; v. 268; p. 521.
- Friction-drive. A. P. Armington. No. 1,305,866; June 3; v. 263; p. 120.
- Friction-driven press. F. Schar and R. Theumer. No. 1,321,945; Nov. 18; v. 268; p. 414.
- Friction-gear. G. A. Johnson. No. 1,301,945; Apr. 29; v. 261; p. 835.
- Friction-gear. J. F. O'Connor. No. 1,302,078; Apr. 29; v. 261; p. 859.
- Friction igniting device. J. O. Bewan. No. 1,322,401; Nov. 18; v. 268; p. 500.
- Friction-surface. H. Frood. No. 1,307,857; June 24; v. 263; p. 584.
- Friction-top can. J. M. Hothersall. No. 1,309,628; July 15; v. 264; p. 365.
- Friction transmission mechanism. H. L. Fisher. No. 1,326,189; Dec. 30; v. 269; p. 716.
- Frog, Movable center. P. Kimack. No. 1,318,768; Oct. 14; v. 267; p. 272.
- Frogs and crossings, Reinforcement for. B. T. Gibbs, Jr. No. 1,313,480; Aug. 19; v. 265; p. 357.
- Fruit and vegetable drier. S. M. Adams. No. 1,325,271; Dec. 16; v. 269; p. 493.
- Fruit and vegetable drier. F. E. Boyd. No. 1,308,036; July 1; v. 264; p. 6.
- Fruit and vegetable drier. G. B. F. Stovall. No. 1,293,237; Feb. 4; v. 259; p. 60.
- Fruit-cleaner. F. Stebler. No. 1,296,130; Mar. 4; v. 260; p. 72.
- Fruit-cleaning machine. F. Stebler. No. 1,296,131; Mar. 4; v. 260; p. 73.
- Fruit-conveyer. F. E. Dillon. No. 1,309,119; July 8; v. 264; p. 233.
- Fruit conveyer and drier. J. W. Stevenson. No. 1,292,128; Jan. 21; v. 258; p. 563.
- Fruit-cutting implement. M. H. Davis. No. 1,313,273; Aug. 19; v. 265; p. 319.
- Fruit dividing and coring machine. R. A. Gatica. No. 1,294,336; Feb. 11; v. 259; p. 348.
- Fruit-drier. M. J. McCauley. No. 1,292,831; Jan. 28; v. 258; p. 751.
- Fruit-drying apparatus. G. D. Parker. No. 1,296,845; Mar. 11; v. 260; p. 267.
- Fruit-gatherer. J. D. Ferry. No. 1,312,967; Aug. 12; v. 265; p. 243.
- Fruit-gatherer. W. A. Johnson and J. M. Robbins. No. 1,293,460; Feb. 4; v. 259; p. 113.
- Fruit-gatherer. P. H. Lint. No. 1,317,927; Oct. 7; v. 267; p. 50.
- Fruit-gatherer. R. E. Teague. No. 1,302,243; Apr. 29; v. 261; p. 890.
- Fruit-gathering device. C. Uhlarick. No. 1,296,236; Mar. 4; v. 260; p. 96.
- Fruit-grader. B. L. and E. B. Gifford. No. 1,310,894; July 15; v. 264; p. 504.
- Fruit-grader. A. Guignard and F. Rosiger. No. 1,318,990; Oct. 14; v. 267; p. 315.
- Fruit-grader. A. R. Stevens. No. 1,296,564; Mar. 4; v. 260; p. 167.
- Fruit grader and sizer. W. P. Thomas. No. 1,326,117; Dec. 23; v. 269; p. 666.
- Fruit grading and assorting machine. B. C. Skinner. No. 1,321,677; Nov. 11; v. 268; p. 313.
- Fruit-grading machine. C. Fredrickson. No. 1,322,420; Nov. 18; v. 268; p. 503.
- Fruit-jar and bottle cleaner. W. L. Hunter. No. 1,296,290; Mar. 4; v. 260; p. 108.
- Fruit-jar holder. W. S. Wagner. No. 1,292,933; Jan. 28; v. 258; p. 775.
- Fruit-jar lifter. J. M. Perkins. No. 1,320,268; Oct. 28; v. 267; p. 605.
- Fruit-jar opener. W. Clasen. No. 1,324,586; Dec. 9; v. 269; p. 303.
- Fruit-jar wrench and holder. N. M. Scharnberg. No. 1,299,511; Apr. 8; v. 261; p. 231.
- Fruit juices and other organic food and vegetable products, Preserving. C. A. Kern. (Reissue.) No. 1,4633; Apr. 15; v. 261; p. 602.
- Fruit juices, Preservation of citrus-. R. F. Bacon. No. 1,305,244; June 3; v. 263; p. 3.
- Fruit-juices, Treating. J. G. F. Hieber. No. 1,325,094; Dec. 16; v. 269; p. 459.
- Fruit-knife. R. H. Newman. No. 1,301,297; Apr. 22; v. 261; p. 680.
- Fruit-knife. D. B. Rice. No. 1,326,373; Dec. 30; v. 269; p. 750.
- Fruit, Machine for stemming. J. B. Foote. No. 1,298,488; Mar. 25; v. 260; p. 676.
- Fruit-picker. A. S. Adams. No. 1,309,712; July 15; v. 264; p. 380.
- Fruit-picker. S. W. Gerrish. No. 1,295,888; Mar. 4; v. 260; p. 16.
- Fruit-picker. E. C. Goussy. No. 1,303,885; May 20; v. 262; p. 328.
- Fruit-picker. S. Hoeber. No. 1,300,168; Apr. 8; v. 261; p. 378.
- Fruit-picker. D. K. Kosich. No. 1,308,677; July 1; v. 264; p. 122.
- Fruit-picker. J. G. Martinez. No. 1,319,407; Oct. 21; v. 267; p. 420.
- Fruit-picker. J. V. Powers. No. 1,307,417; June 24; v. 263; p. 504.
- Fruit-picker. L. Vucinovich. No. 1,304,127; May 20; v. 262; p. 372.
- Fruit-picker. H. E. Webber. No. 1,293,588; Feb. 4; v. 259; p. 142.
- Fruit-press. J. T. Dobi. No. 1,312,313; Aug. 5; v. 265; p. 85.
- Fruit press. M. A. Rollman and C. J. Schiemer. No. 1,317,666; Sept. 30; v. 266; p. 701.



*Alphabetical list of inventions—Continued.*

- Fruit-press. C. J. Schiemer. No. 1,317,667; Sept. 30; v. 266; p. 701.
- Fruit-processing machine. A. P. Shepard. No. 1,317,898; Oct. 7; v. 267; p. 45.
- Fruit-pulp extractor. R. F. Leeffeld. No. 1,304,892; May 27; v. 262; p. 556.
- Fruit-separator. H. H. Jackson. No. 1,295,172; Feb. 25; v. 259; p. 600.
- Fruit-sorting machine. P. Notenboom. No. 1,310,921; July 22; v. 264; p. 633.
- Fruit-sorting table. F. C. Gordon. No. 1,317,573; Sept. 30; v. 266; p. 684.
- Fruit sizer and grader. A. M. O'Quinn. No. 1,293,177; Feb. 4; v. 259; p. 46.
- Fruit-sizing machine, Citrus-. O. N. Boyer. No. 1,302,002; Apr. 29; v. 261; p. 845.
- Fruit-stemming machine. C. L. Hunsicker. No. 1,302,374; Apr. 29; v. 261; p. 915.
- Fruit-stoner. C. Mink. No. 1,305,395; June 3; v. 263; p. 31.
- Fruit-trimming machine. D. T. Fleming. No. 1,294,890; Feb. 18; v. 259; p. 513.
- Fruit washer and drier, Citrus-. T. Wang. No. 1,319,541; Oct. 21; v. 267; p. 445.
- Fruits, Cooking and serving device for. R. C. Lafferty. No. 1,313,947; Aug. 26; v. 265; p. 479.
- Fruits, such as peaches and apricots, &c., Device for cleansing and removing skins from dried. H. A. Beckhuls. No. 1,312,381; Aug. 5; v. 265; p. 98.
- Fruits, vegetables and the like, Drier for evaporating. H. L. Shepard. No. 1,300,497; Apr. 15; v. 261; p. 475.
- Fruits, vegetables, &c., Process of and apparatus for dehydrating. C. Shorman. No. 1,324,072; Dec. 9; v. 269; p. 204.
- Frustrator device, Holdup-. J. F. Fenton. No. 1,321,021; Nov. 4; v. 268; p. 125.
- Frying pan, Egg-. K. A. Lewis. No. 1,319,878; Oct. 28; v. 267; p. 533.
- Fuel and making same. O. Meyers. No. 1,305,392; June 3; v. 263; p. 31.
- Fuel and making same. C. L. Wagner. No. 1,317,950; Oct. 7; v. 267; p. 55.
- Fuel and making same, Artificial. H. M. Brigham. No. 1,313,876; Aug. 26; v. 265; p. 466.
- Fuel and making same, Artificial. A. W. Goulding. No. 1,305,209; May 27; v. 262; p. 616.
- Fuel and making same, Infusible solidified liquid. F. E. Poulton. No. 1,299,408; Apr. 1; v. 261; p. 180.
- Fuel, Apparatus for burning powdered. A. S. Mann. No. 1,298,530; Mar. 25; v. 260; p. 686.
- Fuel, Apparatus for burning pulverized. C. J. Gadd. No. 1,314,740; Sept. 2; v. 266; p. 50.
- Fuel, Apparatus for containing and consuming. J. Schaub. No. 1,305,671; June 3; v. 263; p. 84.
- Fuel, Apparatus for handling pulverized. W. O. Renkin. No. 1,308,367; July 1; v. 264; p. 65.
- Fuel, Apparatus for producing combustible. J. R. Rose. No. 1,312,875; Aug. 12; v. 265; p. 225.
- Fuel, Apparatus for storing and handling pulverized. W. O. Renkin. No. 1,308,369; July 1; v. 264; p. 66.
- Fuel, Apparatus for using powdered. W. H. Stevens. No. 1,316,399; Sept. 16; v. 266; p. 377.
- Fuel, Apparatus for using powdered. C. D. Young. No. 1,308,137; July 1; v. 264; p. 24.
- Fuel, Apparatus for using powdered. W. H. Stevens. No. 1,324,081; Dec. 9; v. 269; p. 206.
- Fuel, Art of burning. J. M. Schutz. No. 1,306,233; June 10; v. 263; p. 220.
- Fuel-atomizer. M. Bucherer. No. 1,322,093; Nov. 18; v. 268; p. 440.
- Fuel, Automatic apparatus for distributing pulverized. W. O. Renkin. No. 1,301,168; Apr. 22; v. 261; p. 654.
- Fuel-blocks, Machine for forming peat. M. A. Anchersen. No. 1,294,218; Feb. 11; v. 259; p. 322.
- Fuel-boiler, Universal. F. C. Keller and R. A. Sharp. No. 1,321,922; Nov. 18; v. 268; p. 409.
- Fuel-burner. J. A. Doble. No. 1,316,021; Sept. 16; v. 266; p. 306.
- Fuel-burner for steam-generators. F. I. du Pont. No. 1,290,132; Jan. 7; v. 258; p. 29.
- Fuel burner, Liquid-. J. O. Goodwin. No. 1,302,360; Apr. 29; v. 261; p. 912.
- Fuel burner, Liquid-. J. W. Knopp. No. 1,318,883; Oct. 14; v. 267; p. 295.
- Fuel burner, Waste-. W. J. Santmyer. No. 1,304,380; May 20; v. 262; p. 421.
- Fuel-burning apparatus. J. M. Schutz. No. 1,306,235; June 10; v. 263; p. 221.
- Fuel-charge-supply apparatus. J. Good. No. 1,314,056; Aug. 26; v. 265; p. 500.
- Fuel, Combustion of powdered. H. B. Pruden. No. 1,307,375; June 24; v. 263; p. 496.
- Fuel crushing and feeding device, Double acting. N. E. Gee. No. 1,308,900; July 8; v. 264; p. 192.
- Fuel, Device for aerating powdered. A. G. Kinyon. No. 1,307,365; June 24; v. 263; p. 494.
- Fuel, Distributer for comminuted or pulverulent. D. Goff. No. 1,318,375; Oct. 14; v. 267; p. 198.
- Fuel-distributing apparatus. R. E. Jackson and B. O. Yearwood. No. 1,300,272; Apr. 15; v. 261; p. 426.
- Fuel-economizer. V. E. Morrison. No. 1,319,166; Oct. 21; v. 267; p. 375.
- Fuel-economizer. E. B. Overshiner. No. 1,301,000; Apr. 15; v. 261; p. 581.
- Fuel-feed apparatus. F. Weinberg. No. 1,292,183; Jan. 21; v. 258; p. 576.
- Fuel-feed device, Vacuum. W. Jay. No. 1,308,848; July 8; v. 264; p. 182.
- Fuel-feed-governing device. L. B. Hall. No. 1,290,183; Jan. 7; v. 258; p. 41.
- Fuel-feed system. F. A. Edwards. No. 1,306,999; June 17; v. 263; p. 394.
- Fuel-feed system. H. W. Hamilton. No. 1,306,377; June 10; v. 263; p. 248.
- Fuel-feed systems, Vacuum-tank for. G. A. Arnold. No. 1,299,653; Apr. 8; v. 261; p. 264.
- Fuel-feeder. J. M. Schutz. No. 1,319,119; Oct. 21; v. 267; p. 364.
- Fuel-feeder for pulverized fuel. J. F. Townsend. No. 1,321,262; Nov. 11; v. 268; p. 234.
- Fuel feeding and indicating means. W. H. Knierim. No. 1,293,474; Feb. 4; v. 259; p. 116.
- Fuel-feeding device. T. A. Edison, Jr. No. 1,304,550; May 27; v. 262; p. 493.
- Fuel-feeding device. W. J. Embs. No. 1,305,648; June 3; v. 263; p. 80.
- Fuel-feeding device. C. S. Heffelfinger. No. 1,304,973; May 27; v. 262; p. 571.
- Fuel-feeding device. H. R. Saxon and G. Ganzert. No. 1,325,701; Dec. 23; v. 269; p. 589.
- Fuel, Feeding device for pulverulent. K. H. V. von Porat. No. 1,319,193; Oct. 21; v. 267; p. 380.
- Fuel-feeding system. W. H. Muzzy. No. 1,325,571; Dec. 23; v. 269; p. 565.
- Fuel-feeding system. F. E. Wellman. No. 1,292,549; Jan. 28; v. 258; p. 684.
- Fuel, Fluid-pressure apparatus for burning powdered. P. A. Leonard, M. F. Maloney, and E. Fandrich. No. 1,305,726; June 3; v. 263; p. 94.
- Fuel for power production, Use of solid. A. C. Michie and E. G. Weeks. No. 1,301,960; Apr. 29; v. 261; p. 838.
- Fuel-gage. C. D. Jenney. No. 1,295,037; Feb. 18; v. 259; p. 545.
- Fuel-gage. J. H. Leitch. No. 1,304,069; May 20; v. 262; p. 362.
- Fuel-gasifying apparatus, Liquid-. B. S. Burrell. No. 1,305,689; June 3; v. 263; p. 87.
- Fuel-heater. J. Bretz, Jr. No. 1,296,043; Mar. 4; v. 260; p. 52.
- Fuel-heater. H. M. Clemmensen. No. 1,318,265; Oct. 7; v. 267; p. 116.
- Fuel-heater. G. O. Olsen. No. 1,305,003; May 27; v. 262; p. 577.
- Fuel-heating system. J. V. Giesler. No. 1,300,600; Apr. 15; v. 261; p. 496.
- Fuel-heating system. J. V. Giesler. No. 1,318,068; Oct. 7; v. 267; p. 78.
- Fuel in starting furnace-fires, Preventing loss of. J. P. Evans. No. 1,297,669; Mar. 18; v. 260; p. 475.
- Fuel in the treatment of metals, Utilizing. H. O. Breaker. No. 1,304,258; May 20; v. 262; p. 397.
- Fuel-injection system. S. Kilchenmann. No. 1,320,764; Nov. 4; v. 268; p. 76.
- Fuel, Liquid. A. A. Backhaus. No. 1,296,902; Mar. 11; v. 260; p. 281.
- Fuel, Liquid. A. A. Backhaus. No. 1,306,244; June 10; v. 263; p. 224.
- Fuel-lock. I. E. Deadmond. No. 1,311,863; July 29; v. 264; p. 841.
- Fuel machine, Artificial-. J. Schaub. No. 1,314,984; Sept. 2; v. 266; p. 94.
- Fuel, Machine for cutting and welding with fluid. J. Harris. No. 1,320,687; Nov. 4; v. 268; p. 61.
- Fuel-magazine. A. O. Strickland. No. 1,298,819; Apr. 1; v. 261; p. 47.
- Fuel, Making motor-. C. Ellis. No. 1,318,061; Oct. 7; v. 267; p. 76.
- Fuel, Manufacturing peat. H. P. K. T. Nielsen. No. 1,317,936; Oct. 7; v. 267; p. 52.
- Fuel mixer, Gaseous-. W. F. Hunter. No. 1,311,071; July 22; v. 264; p. 661.
- Fuel, Motor-. C. L. E. Mueller. No. 1,297,388; Mar. 18; v. 260; p. 417.
- Fuel-oil burner. P. H. Hamilton. No. 1,324,815; Dec. 16; v. 269; p. 408.
- Fuel-piping for coke-ovens. A. Roberts. No. 1,292,066; Jan. 21; v. 258; p. 548.
- Fuel-saver. H. A. Wood. No. 1,290,465; Jan. 7; v. 258; p. 110.
- Fuel-saving device. J. L. Black. No. 1,309,114; July 8; v. 264; p. 233.

- Fuel-supply system. G. H. Curtiss. No. 1,323,843; Dec. 2; v. 269; p. 116.
- Fuel systems. Locking apparatus for vacuum. S. Peskind. No. 1,316,592; Sept. 23; v. 266; p. 462.
- Fuel-tank. B. B. Kahn. No. 1,309,526; July 8; v. 264; p. 308.
- Fuel-tank. H. C. Mougey and J. M. H. Jacobs. No. 1,298,080; Mar. 25; v. 260; p. 589.
- Fuel-tank and means for supporting it. A. Monsen. No. 1,307,138; June 17; v. 263; p. 420.
- Fuel-tank indicator. W. Jay. No. 1,308,905; July 8; v. 264; p. 193.
- Fuel-tank, Self-sealing. G. J. Murdock. No. 1,312,745; Aug. 12; v. 265; p. 199.
- Fuel to stoves or heaters, Governor for controlling the supply of liquid. J. F. Goodwin and G. W. Caulkins. No. 1,297,557; Mar. 18; v. 260; p. 451.
- Fuel-vaporizer. C. M. Dyer. No. 1,307,393; June 24; v. 263; p. 500.
- Fuel-vaporizer. C. F. Gooding. No. 1,322,429; Nov. 18; v. 268; p. 505.
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- Fuel-vaporizer. B. J. Pye and H. Rabbes. No. 1,310,873; July 22; v. 264; p. 624.
- Fuel-vaporizer. L. Werts. No. 1,317,248; Sept. 30; v. 266; p. 621.
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- Fuels. Combustion of waste. A. C. L. Ekström. No. 1,295,456; Feb. 25; v. 259; p. 665.
- Fulcrum. Reversible brake-beam. M. F. Cox. No. 1,308,046; July 1; v. 264; p. 7.
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- Fumigating and spraying apparatus. W. G. Dingle. No. 1,304,746; May 27; v. 262; p. 529.
- Fumigating-rack. G. T. Hull. No. 1,326,505; Dec. 30; v. 269; p. 776.
- Fumigator. C. F. Hood. No. 1,325,291; Dec. 16; v. 269; p. 496.
- Fumigator. A. E. Suwalski, L. J. Leininger, and J. N. M. Wilson. No. 1,316,066; Sept. 16; v. 266; p. 314.
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- Funnel. F. H. Gustafson. No. 1,303,890; May 20; v. 262; p. 329.
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- Fur-skin-cutting machine. C. S. Peck. No. 1,321,665; Nov. 11; v. 268; p. 310.
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- Annealing-furnace.
- Baker's furnace.
- Blast-furnace.
- Boiler-furnace.
- Channel-furnace.
- Coal and gas burning furnace.
- Continuous furnace.
- Continuous reduction-furnace.
- Electric furnace.
- Electric-arc furnace.
- Electric induction-furnace.
- Electric melting-furnace.
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- Electrical furnace.
- Electroconnector-furnace.
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- Locomotive-furnace.
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- Furnaces, Apparatus for charging blast. T. Kawai. No. 1,319,005; Oct. 14; v. 267; p. 318.
- Furnaces and boilers, Ash-spraying device for. E. C. Anderson. No. 1,308,613; July 1; v. 264; p. 111.
- Furnaces, Blowing down and blowing out blast. J. W. Dougherty. No. 1,309,465; July 8; v. 264; p. 297.
- Furnaces, Clean-out device for. B. B. Kahn and E. W. Hake. No. 1,319,223; Oct. 21; v. 267; p. 385.
- Furnaces, Damper-regulating mechanism for. L. Takacs. No. 1,318,118; Oct. 7; v. 267; p. 87.
- Furnaces, Device for removing clinkers from. J. A. Emerson. No. 1,324,498; Dec. 9; v. 269; p. 286.
- Furnaces, Device for supplying steam and air to. G. R. Jarman. No. 1,320,866; Nov. 4; v. 268; p. 95.
- Furnaces, Draft apparatus for. J. T. McKee. No. 1,318,782; Oct. 14; v. 267; p. 275.
- Furnaces, Draft-regulator for boiler. A. S. Mann. No. 1,295,550; Feb. 25; v. 259; p. 688.
- Furnaces during temporary stops, Preventing gas explosions in blast. J. W. Dougherty. No. 1,309,466; July 8; v. 264; p. 297.

- Furnaces, Electric transformer, especially suitable for use in connection with electric. J. Bibby. No. 1,315,359; Sept. 9; v. 266; p. 172.
- Furnaces, Eliminating carbon dioxide and oxygen in electric smelting-. J. Thomson. No. 1,308,879; July 8; v. 264; p. 188.
- Furnaces, Feeding and removing apparatus for. E. L. McGuire. No. 1,320,898; Nov. 4; v. 268; p. 102.
- Furnaces, Forced-draft device for. Y. Ogawa. No. 1,322,262; Nov. 18; v. 268; p. 473.
- Furnaces, Fuel feeder and spreader for. W. C. Ely. No. 1,312,526; Aug. 12; v. 265; p. 156.
- Furnaces, Fuel-support for. J. M. Hopwood. No. 1,319,584; Oct. 21; v. 267; p. 454.
- Furnaces, Furnace-front for liquid-fuel. T. Donaldson and R. Mackie. No. 1,309,394; July 8; v. 264; p. 284.
- Furnaces, Gas attachment for heating-. M. Pelzer. No. 1,310,926; July 22; v. 264; p. 634.
- Furnaces, Gas-burner for. G. J. Hess. No. 1,311,515; July 29; v. 264; p. 777.
- Furnaces, Heat-saver for. J. H. Corcoran. No. 1,325,276; Dec. 16; v. 269; p. 493.
- Furnaces, heating-stoves, ranges, &c., Gas-burning system for. E. W. Vest. No. 1,325,492; Dec. 16; v. 269; p. 532.
- Furnaces, Means actuated by alternating electric current for controlling or operating electric. J. H. Reid. No. 1,321,554; Nov. 11; v. 268; p. 289.
- Furnaces or mixers, Valve for steel-making. F. G. Smith. No. 1,320,284; Oct. 28; v. 267; p. 608.
- Furnaces, Plant for feeding pulverized coal to. J. E. Kennedy. No. 1,320,367; Oct. 28; v. 267; p. 623.
- Furnaces, Preheating apparatus for. H. E. Smythe. No. 1,305,176; May 27; v. 262; p. 609.
- Furnaces, Reversing apparatus for regenerative reversing-. H. R. Geer. No. 1,307,004; June 17; v. 263; p. 395.
- Furnaces, Shield or auxiliary wall for. J. O. Griggs. No. 1,320,886; Nov. 4; v. 268; p. 6.
- Furnaces, stoves, and ranges, Gas-burner for. E. W. Vest. No. 1,325,456; Dec. 16; v. 269; p. 525.
- Furnaces, stoves, and ranges, Valve for gas-burners of. E. W. Vest. No. 1,325,457; Dec. 16; v. 269; p. 526.
- Furnaces using liquid fuel, Air-valve for. H. E. Yarrow. No. 1,312,378; Aug. 5; v. 265; p. 97.
- Furnaces, Wall-register for pipeless. W. J. Doyle. No. 1,318,328; Oct. 7; v. 267; p. 128.
- Furnaces, Water-cooled door for. G. F. Downs. No. 1,312,168; Aug. 5; v. 265; p. 59.
- Furniture, C. O. Burgess. No. 1,293,025; Feb. 4; v. 259; p. 13.
- Furniture, E. T. Francisco. No. 1,295,296; Feb. 25; v. 259; p. 628.
- Furniture, A. Giordano. No. 1,297,144; Mar. 11; v. 260; p. 335.
- Furniture, A. G. Girard. No. 1,321,732; Nov. 11; v. 268; p. 323.
- Furniture, M. Lewry. No. 1,298,362; Mar. 25; v. 260; p. 648.
- Furniture, F. W. McArdle. No. 1,306,268; June 10; v. 263; p. 228.
- Furniture, M. Tauber and J. Schenke. No. 1,297,036; Mar. 11; v. 260; p. 312.
- Furniture, W. E. Winter. No. 1,305,856; June 3; v. 263; p. 118.
- Furniture and automobile polish. W. H. Damon. No. 1,302,820; Apr. 29; v. 261; p. 905.
- Furniture and knockdown shelving-section, Combination sectional. M. Reigersberg. No. 1,290,782; Jan. 7; v. 258; p. 185.
- Furniture, Article of. E. A. Kendall. No. 1,322,454; Nov. 18; v. 268; p. 510.
- Furniture, Article of. J. V. Wilson. No. 1,323,563; Dec. 2; v. 269; p. 64.
- Furniture, Baby's. S. M. Moses. No. 1,293,512; Feb. 4; v. 259; p. 126.
- Furniture-brace. C. M. Deadwyler. No. 1,297,330; Mar. 18; v. 260; p. 405.
- Furniture, Camp. J. H. Wittmann. No. 1,306,042; June 10; v. 263; p. 183.
- Furniture, Child's. J. Markwick. No. 1,309,097; July 8; v. 264; p. 229.
- Furniture, Combination. H. C. Gydesen. No. 1,299,331; Apr. 1; v. 261; p. 162.
- Furniture, Combination-. J. H. Killmeyer. No. 1,315,846; Sept. 9; v. 266; p. 259.
- Furniture, Convertible. A. N. Clough. No. 1,320,365; Oct. 28; v. 267; p. 623.
- Furniture, Convertible. F. M. Davis. No. 1,295,443; Feb. 25; v. 259; p. 662.
- Furniture, Convertible. T. F. Kelly. No. 1,318,285; Oct. 7; v. 267; p. 120.
- Furniture, Convertible. T. F. Kelly. No. 1,318,286; Oct. 7; v. 267; p. 120.
- Furniture, Doll. E. R. H. Kreutner. No. 1,290,769; Jan. 7; v. 258; p. 180.
- Furniture, Foldable. H. D. Bartlett. No. 1,295,839; Mar. 4; v. 260; p. 4.
- Furniture, Folding. A. Zabawa. No. 1,303,446; May 13; v. 262; p. 209.
- Furniture, Folding-leg. J. C. Nichol. No. 1,298,249; Mar. 25; v. 260; p. 626.
- Furniture-foot. W. F. Werner. No. 1,305,427; June 3; v. 263; p. 37.
- Furniture for children's use, Combination article of. N. E. Negus and O. F. Maidment. No. 1,326,415; Dec. 30; v. 269; p. 759.
- Furniture-joint. A. White. No. 1,306,452; June 10; v. 263; p. 261.
- Furniture, Knockdown. W. H. Haight. No. 1,298,496; Mar. 25; v. 260; p. 678.
- Furniture, Knockdown. C. T. Metzger. No. 1,297,714; Mar. 18; v. 260; p. 485.
- Furniture-leg mount. A. B. Diss. No. 1,300,136; Apr. 8; v. 261; p. 371.
- Furniture, Lock for convertible. T. F. Kelly. No. 1,318,287; Oct. 7; v. 267; p. 120.
- Furniture, Making materials for covering. H. B. Morris. No. 1,306,310; June 10; v. 263; p. 235.
- Furniture-polish. G. H. Allen. No. 1,309,171; July 8; v. 264; p. 243.
- Furniture-polish. G. Turrell and A. Armstrong. No. 1,325,686; Dec. 23; v. 269; p. 587.
- Furniture, Printer's. F. W. Morgans. No. 1,307,140; June 17; v. 263; p. 420.
- Furniture, School. H. A. Hubschmitt, Jr., and R. D. Spain. No. 1,292,470; Jan. 28; v. 258; p. 665.
- Furniture, Seat-hinge for articles of. C. H. Hill. No. 1,290,557; Jan. 7; v. 258; p. 131.
- Furniture, Store. J. H. Nicks. No. 1,319,302; Oct. 21; v. 267; p. 400.
- Furniture, Supporting-foot for articles of. E. G. Watkins and C. A. Brown. No. 1,309,868; July 15; v. 264; p. 409.
- Furrow-marker. F. R. Rumpel. No. 1,302,714; May 6; v. 262; p. 44.
- Fuse. W. C. Banks. No. 1,315,590; Sept. 9; v. 266; p. 213.
- Fuse. G. Denman and E. F. Lewis. No. 1,294,880; Feb. 18; v. 259; p. 511.
- Fuse. D. A. Pistorio. No. 1,321,328; Nov. 11; v. 268; p. 247.
- Fuse. J. B. Semple. No. 1,310,844; July 22; v. 264; p. 619.
- Fuse. L. Teale. No. 1,321,949; Nov. 18; v. 268; p. 415.
- Fuse, Autoselective. J. W. Taylor. No. 1,313,930; Aug. 26; v. 265; p. 476.
- Fuse-body forged blank. C. H. Jockmus. No. 1,295,512; Feb. 25; v. 259; p. 679.
- Fuse, Bomb-. J. B. Hope. No. 1,326,266; Dec. 30; v. 269; p. 731.
- Fuse-box. H. F. Fisher. No. 1,318,655; Oct. 14; v. 267; p. 251.
- Fuse-box. A. A. Wells and H. B. Fife. No. 1,298,608; Mar. 25; v. 260; p. 702.
- Fuse, Cartridge. R. C. Cole. No. 1,309,508; July 8; v. 264; p. 305.
- Fuse-clip, Auxiliary. E. B. Milloy. No. 1,325,698; Dec. 23; v. 269; p. 539.
- Fuse-closing caps, Finishing the exterior of. W. J. Hawkins. No. 1,294,337; Feb. 11; v. 259; p. 349.
- Fuse, Combination percussion and time. L. L. Driggs. No. 1,311,792; July 29; v. 264; p. 828.
- Fuse, Delayed-action. G. C. Davison. No. 1,311,054; July 22; v. 264; p. 658.
- Fuse, Detonating-. A. Adelman. No. 1,326,822; Dec. 30; v. 269; p. 836.
- Fuse, Detonating-. D. F. Asbury. No. 1,310,046; July 15; v. 264; p. 441.
- Fuse, Detonating-. J. Harlé. No. 1,306,895; June 17; v. 263; p. 376.
- Fuse, Detonating-. G. de Laval. No. 1,310,742; July 22; v. 264; p. 600.
- Fuse, Detonating-. G. de Laval. No. 1,310,792; July 22; v. 264; p. 610.
- Fuse, Detonating-. C. P. Watson. No. 1,311,732; July 29; v. 264; p. 817.
- Fuse-detonating means. C. P. Watson. No. 1,316,608; Sept. 23; v. 266; p. 465.
- Fuse device. E. O. Schweitzer and N. J. Conrad. No. 1,299,387; Apr. 1; v. 261; p. 175.
- Fuse, Double safety percussion-. A. S. Baldwin. No. 1,316,131; Sept. 16; v. 266; p. 326.
- Fuse, Electric. A. P. Bender. No. 1,290,860; Jan. 7; v. 258; p. 202.
- Fuse, Electric. J. Schneider. No. 1,315,162; Sept. 2; v. 266; p. 125.
- Fuse, Electric. F. I. Thiebaut. No. 1,297,931; Mar. 18; v. 260; p. 532.
- Fuse, Electric. L. Vecchio. No. 1,317,838; Oct. 7; v. 267; p. 34.
- Fuse for artillery-projectiles. Time-. O. Ohlson. No. 1,312,803; Aug. 12; v. 265; p. 211.
- Fuse for electric switches. G. A. Burnham. No. 1,312,792; Aug. 12; v. 265; p. 209.
- Fuse for explosive projectiles, Percussion-. A. H. Midgley. No. 1,301,481; Apr. 22; v. 261; p. 714.
- Fuse for explosive projectiles, Percussion-. A. H. Midgley. No. 1,301,482; Apr. 22; v. 261; p. 715.
- Fuse for explosive projectiles, Percussion-. A. H. Midgley. No. 1,309,098; July 8; v. 264; p. 230.
- Fuse for explosive shells. I. J. and H. B. Martin. No. 1,311,081; July 22; v. 264; p. 663.



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- Fuse for explosive shells, Percussion-. E. Gathmann. No. 1,296,281; Mar. 4; v. 260; p. 106.
- Fuse for explosive shells with safety device. E. W. and C. E. J. Brandt. No. 1,310,855; July 22; v. 264; p. 621.
- Fuse for hand-grenades and other explosive-engines. J. Paban. No. 1,315,857; Sept. 9; v. 266; p. 262.
- Fuse for high-tension electrical circuits. L. N. Crichton. No. 1,300,249; Apr. 15; v. 261; p. 422.
- Fuse for projectiles. T. B. Doe. No. 1,299,308; Apr. 1; v. 261; p. 157.
- Fuse for projectiles. D. Kennedy. No. 1,310,350; July 15; v. 264; p. 496.
- Fuse for projectiles. F. A. Sutton. No. 1,313,651; Aug. 19; v. 265; p. 390.
- Fuse for projectiles. F. W. Vickery. No. 1,309,709; July 15; v. 264; p. 380.
- Fuse for projectiles, Mechanical time-. O. Ohlson. No. 1,319,304; Oct. 21; v. 267; p. 400.
- Fuse for projectiles, Percussion-. E. Biff. No. 1,322,521; Nov. 25; v. 268; p. 573.
- Fuse for projectiles, Percussion-. E. W. Newell. No. 1,292,505; Jan. 28; v. 258; p. 673.
- Fuse for projectiles, Percussion-. E. W. Newell. No. 1,309,768; July 15; v. 264; p. 391.
- Fuse for projectiles, Time-. E. W. Newell. No. 1,309,770; July 15; v. 264; p. 391.
- Fuse for shells. A. J. Stone and L. W. Rockwell. No. 1,301,760; Apr. 22; v. 261; p. 768.
- Fuse for shells, Percussion-. D. J. Cartwright. No. 1,311,678; July 29; v. 264; p. 807.
- Fuse for shells, Percussion-. L. L. Driggs. No. 1,311,793; July 29; v. 264; p. 828.
- Fuse for shells, Time-. A. H. Midgley. No. 1,301,479; Apr. 22; v. 261; p. 714.
- Fuse for shells, Time-. A. H. Midgley. No. 1,301,480; Apr. 22; v. 261; p. 714.
- Fuse ignition-cap. L. V. Aronson. No. 1,295,952; Mar. 4; v. 260; p. 30.
- Fuse, Inclosed. G. M. Johns and J. B. Trescott. No. 1,296,808; Mar. 11; v. 260; p. 259.
- Fuse-indicator. F. A. Feldkamp. No. 1,314,583; Sept. 2; v. 266; p. 21.
- Fuse, Inertia-operated. A. S. Baldwin. No. 1,319,685; Oct. 28; v. 267; p. 495.
- Fuse, instantaneous or retarded, Safety percussion-. E. Rimailho. No. 1,326,786; Dec. 30; v. 269; p. 829.
- Fuse-link. J. Wasserberger. No. 1,310,314; July 15; v. 264; p. 490.
- Fuse, Mechanical time-. H. M. Groff. No. 1,312,112; Aug. 5; v. 265; p. 49.
- Fuse mechanism for projectiles. E. Gathmann. No. 1,296,070; Mar. 4; v. 260; p. 58.
- Fuse or cut-out Electric. W. C. Flöring. No. 1,325,562; Dec. 23; v. 269; p. 563.
- Fuse, Percussion-. A. S. Baldwin. No. 1,311,673; July 29; v. 264; p. 806.
- Fuse, Percussion-. L. L. Driggs. No. 1,311,794; July 29; v. 264; p. 828.
- Fuse, Percussion-. D. Kennedy. No. 1,321,455; Nov. 11; v. 268; p. 271.
- Fuse, Percussion-. E. W. Newell. No. 1,309,769; July 15; v. 264; p. 391.
- Fuse, Percussion-. L. Nixon. No. 1,311,835; July 29; v. 264; p. 836.
- Fuse, Percussion-. J. N. Steuart. No. 1,299,054; Apr. 1; v. 261; p. 101.
- Fuse, Percussion-shell. C. H. Jockmus. No. 1,309,479; July 8; v. 264; p. 299.
- Fuse-plug. R. B. Benjamin and E. G. K. Anderson. No. 1,316,671; Sept. 23; v. 266; p. 478.
- Fuse-plug. D. E. Bown. No. 1,298,654; Apr. 1; v. 261; p. 7.
- Fuse-plug. F. Capello. No. 1,313,671; Aug. 19; v. 265; p. 393.
- Fuse-plug. W. L. Carlson. No. 1,310,175; July 15; v. 264; p. 465.
- Fuse-plug. C. L. Eldlitz. No. 1,310,182; July 15; v. 264; p. 466.
- Fuse-plug. R. A. Schoenberg. No. 1,301,009; Apr. 15; v. 261; p. 584.
- Fuse-plug. K. B. Shulz. No. 1,320,424; Nov. 4; v. 268; p. 13.
- Fuse-plug. W. D. Woolley. No. 1,308,518; July 1; v. 264; p. 93.
- Fuse-plug. A. J. Zarlinga and E. J. Korbel. No. 1,322,079; Nov. 18; v. 268; p. 438.
- Fuse plug, Cartridge-. C. Dawson and E. E. Morgan. No. 1,314,576; Sept. 2; v. 266; p. 19.
- Fuse-plug, Electric. J. Glatz. No. 1,313,288; Aug. 19; v. 265; p. 322.
- Fuse plug, Multiple-. F. A. Feldkamp. No. 1,318,653; Oct. 14; v. 267; p. 251.
- Fuse plug, Multiple-. E. G. Rogerson. No. 1,316,331; Sept. 16; v. 266; p. 364.
- Fuse, Pneumatically-operated impact-. E. W. Newell. No. 1,309,773; July 15; v. 264; p. 392.
- Fuse, Projectile time-. E. W. Newell. No. 1,309,771; July 15; v. 264; p. 391.
- Fuse, Refillable. H. I. Bashlow. No. 1,326,834; Dec. 30; v. 269; p. 838.
- Fuse, Refillable. A. F. Daum. No. 1,326,481; Dec. 30; v. 269; p. 771.
- Fuse, Refillable cartridge-. C. T. McDonald. No. 1,311,661; July 29; v. 264; p. 804.
- Fuse, Refillable cartridge-. H. P. Niesen. No. 1,316,319; Sept. 16; v. 266; p. 362.
- Fuse, Refillable electric. F. C. La Mar and P. J. Hopkins. No. 1,318,887; Oct. 14; v. 267; p. 295.
- Fuse, Refillable electric. W. F. Muller. No. 1,317,381; Sept. 30; v. 266; p. 646.
- Fuse, Renewable. F. N. Conant. No. 1,299,132; Apr. 1; v. 261; p. 117.
- Fuse, Renewable electric. F. C. Le Mar and P. J. Hopkins. No. 1,318,886; Oct. 14; v. 267; p. 295.
- Fuse, Renewable knife-blade. J. M. Coote. No. 1,308,000; June 24; v. 263; p. 611.
- Fuse, Renewable-link. J. A. Thake. No. 1,319,538; Oct. 21; v. 267; p. 445.
- Fuse, Safety-. A. S. Baldwin. No. 1,311,674; July 29; v. 264; p. 806.
- Fuse, Safety-. A. S. Baldwin. No. 1,316,132; Sept. 16; v. 266; p. 326.
- Fuse, Safety-. A. Eustice. No. 1,294,432; Feb. 18; v. 259; p. 407.
- Fuse, Safety detonating-. J. W. Taylor. No. 1,321,407; Nov. 11; v. 268; p. 262.
- Fuse, Safety inclosed. W. D. Ligon. No. 1,301,465; Apr. 22; v. 261; p. 711.
- Fuse, Safety percussion-. A. S. Baldwin. No. 1,311,672; July 29; v. 264; p. 806.
- Fuse setter, Automatic time-. R. Redpath and H. Hellberg. No. 1,307,639; June 24; v. 263; p. 544.
- Fuse, Shell-. L. L. Driggs. No. 1,311,795; July 29; v. 264; p. 829.
- Fuse, Shell-. F. G. L. Johnson. No. 1,313,298; Aug. 19; v. 265; p. 324.
- Fuse, Shell-. F. G. L. Johnson. No. 1,322,191; Nov. 18; v. 268; p. 459.
- Fuse time-train ring, Projectile-. E. Gathmann. No. 1,301,928; Apr. 29; v. 261; p. 831.
- Fuses, Coupling-release for mechanical time-. O. Ofison. No. 1,309,333; July 8; v. 264; p. 273.
- Fuses for shells, Apparatus for regulating the combustion in. E. Schneider. No. 1,310,895; July 22; v. 264; p. 628.
- Fuses, Indicator for cartridge-. S. W. Huff. No. 1,301,848; Apr. 29; v. 261; p. 816.
- Fuses, Locking device for time-. O. Ohlson. No. 1,311,838; July 29; v. 264; p. 836.
- Fuses of projectiles, Cover for. J. D. Hathaway. No. 1,313,088; Aug. 12; v. 265; p. 267.
- Fuses, Safety apparatus for preventing untimely extinctions in the fuse-rings of time-. E. Schneider. No. 1,310,892; July 22; v. 264; p. 628.
- Fuses, Setting device for mechanical time-. O. Ohlson. No. 1,311,837; July 29; v. 264; p. 836.
- Fusees, Bonnet for caps of railway signal-. W. A. Conley. No. 1,301,655; Apr. 22; v. 261; p. 747.
- Fusees, Spike attachment for railway signal-. L. S. Ross. No. 1,296,561; Mar. 4; v. 260; p. 166.
- Fuselage. R. G. Fowler. No. 1,307,002; June 17; v. 263; p. 395.
- Fuselage. J. Henderson. No. 1,313,689; Aug. 19; v. 265; p. 397.
- Fuselage-clip. H. Kleckler. No. 1,298,515; Mar. 25; v. 260; p. 683.
- Fuselage construction, Twin-. G. H. Curtiss. No. 1,294,412; Feb. 18; v. 259; p. 402.
- Fusible link. J. H. McDowell. No. 1,317,629; Sept. 30; v. 266; p. 694.
- Fusible link or strut. E. F. Shipman. No. 1,302,234; Apr. 29; v. 261; p. 888.
- Fusing mechanism. C. Pfanstiehl. No. 1,290,653; Jan. 7; v. 258; p. 154.
- Gaff-hook and fish-rod, Combined. H. Ureck. No. 1,302,457; Apr. 29; v. 261; p. 932.
- Gage: See—
- |                                 |                                    |
|---------------------------------|------------------------------------|
| Air-gage.                       | Oil-circulating gage.              |
| Alarm-gage.                     | Pallet setter-gage.                |
| Amplifying-gage.                | Pin-and-disk gage.                 |
| Angle-gage.                     | Plug-gage.                         |
| Butter-fat gage.                | Pressure-gage.                     |
| Buttonhole-gage.                | Printing-press feed-gage.          |
| Caliper-gage.                   | Recording water-gage.              |
| Carbureter-adjustment gage.     | Saw-gage.                          |
| Centering-gage.                 | Saw-tooth gage.                    |
| Differential-pressure gage.     | Scratch-gage.                      |
| Float-gage.                     | Screw-thread gage.                 |
| Fuel-gage.                      | Shingling-gage.                    |
| Gasolene-gage.                  | Shoe-size gage.                    |
| Glazier's T-square gage.        | Skirt-gage.                        |
| Hinge-gage.                     | Snap-gage.                         |
| Internal gage.                  | Stock-gage.                        |
| Lap-seam gage.                  | Thread-gage.                       |
| Limit-gage.                     | Tire-gage.                         |
| Liquid-gage.                    | Tire-pressure gage.                |
| Mechanic's gage.                | Tire pressure-gage.                |
| Metal - working - machine gage. | Tire testing and inflating gage.   |
| Micrometer-gage.                | Tool guide or gage.                |
| Micrometer drilling-gage.       | Valve mechanism and pressure-gage. |
| Micrometer-scale gage.          | Vehicle-wheel gage.                |
| Micrometer tracing-gage.        | Water-gage.                        |
| Micrometric gage.               | Water-level boiler-gage.           |

- Gage. J. M. Akin. No. 1,309,930; July 15; v. 264; p. 421.
- Gage. E. S. Boynton and A. Schachat. No. 1,310,388; July 15; v. 264; p. 503.
- Gage. E. H. Bristol. No. 1,303,018; May 6; v. 262; p. 103.
- Gage. E. Danner. No. 1,303,259; May 13; v. 262; p. 177.
- Gage. W. Deuring. No. 1,301,234; Apr. 22; v. 261; p. 667.
- Gage. J. Erskine. No. 1,295,718; Feb. 25; v. 259; p. 726.
- Gage. J. C. Fairweather. No. 1,305,996; June 10; v. 263; p. 175.
- Gage. G. P. Gregory. No. 1,307,546; June 24; v. 263; p. 528.
- Gage. J. Harris. No. 1,291,497; Jan. 14; v. 258; p. 377.
- Gage. F. O. Jaques, Jr. No. 1,292,792; Jan. 28; v. 258; p. 742.
- Gage. F. O. Jaques, Jr. No. 1,308,493; July 1; v. 264; p. 88.
- Gage. F. L. Lane. No. 1,295,179; Feb. 25; v. 259; p. 602.
- Gage. W. B. Mackintosh. No. 1,316,844; Sept. 23; v. 266; p. 509.
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- Garment-holder. W. L. Walker. No. 1,323,130; Nov. 25; v. 268; p. 687.
- Garment-holding form. C. H. Tharp. No. 1,317,241; Sept. 30; v. 266; p. 619.
- Garment, Inflatable bathing-. J. Rebel. No. 1,303,389; May 13; v. 262; p. 199.
- Garment, Lady's. A. Malsin. No. 1,293,152; Feb. 4; v. 259; p. 41.
- Garment, Lady's. A. Malsin. No. 1,303,092; May 6; v. 262; p. 117.
- Garment, Lady's. M. Winnegrad. No. 1,309,269; July 8; v. 264; p. 261.
- Garment-marker. A. Herd. No. 1,316,613; Sept. 23; v. 266; p. 466.
- Garment, One-piece outer. A. L. Jones. No. 1,297,475; Mar. 18; v. 260; p. 434.
- Garment-press. W. E. Andrée. No. 1,311,151; July 29; v. 264; p. 709.
- Garment-press. C. L. Braley. No. 1,303,247; May 13; v. 262; p. 175.
- Garment presser and creaser. S. Q. Stanley. No. 1,300,668; Apr. 15; v. 261; p. 510.
- Garment-pressing machine. C. E. Capman. No. 1,316,559; Sept. 23; v. 266; p. 456.
- Garment-pressing machine. J. B. Spencer. No. 1,291,222; Jan. 14; v. 258; p. 313.
- Garment-pressing machine. E. H. Zacharias. No. 1,291,344; Jan. 14; v. 258; p. 341.
- Garment-protector. H. E. Gifford. No. 1,295,022; Feb. 18; v. 259; p. 542.
- Garment-protector. G. K. Guinzburg. No. 1,314,799; Sept. 2; v. 266; p. 61.
- Garment provided with a neckband. A. J. Gryniwicz. No. 1,299,572; Apr. 8; v. 261; p. 245.
- Garment-rack. F. W. Mayer. No. 1,301,957; Apr. 29; v. 261; p. 837.
- Garment-rack. F. W. Mayer. No. 1,316,375; Sept. 16; v. 266; p. 372.
- Garment-receptacle. W. P. Newlon. No. 1,307,211; June 17; v. 263; p. 432.
- Garment shield or appliance, Ventilating. A. W. Graham. No. 1,317,489; Sept. 30; v. 266; p. 667.
- Garment-shield, Ventilating. A. W. Graham. No. 1,317,490; Sept. 30; v. 266; p. 667.
- Garment-slide. C. S. Comstock, Sr. No. 1,290,914; Jan. 14; v. 258; p. 243.
- Garment, Storm-. A. Nogar. No. 1,322,602; Nov. 25; v. 268; p. 589.
- Garment-support. H. Ackermann. No. 1,295,094; Feb. 25; v. 259; p. 583.
- Garment-support. T. L. Caudle. No. 1,313,215; Aug. 12; v. 265; p. 292.
- Garment-supporter. E. L. Allen. No. 1,312,718; Aug. 12; v. 265; p. 194.
- Garment-supporter. L. Arons. No. 1,294,374; Feb. 18; v. 259; p. 392.
- Garment-supporter. M. H. Aved. No. 1,298,274; Mar. 25; v. 260; p. 631.
- Garment-supporter. R. Chartrand-Messner. No. 1,316,532; Sept. 16; v. 266; p. 404.
- Garment-supporter. R. T. Clarke. No. 1,306,801; June 17; v. 263; p. 358.
- Garment-supporter. M. J. Davis. No. 1,292,719; Jan. 28; v. 258; p. 726.
- Garment-supporter. G. A. Golar. No. 1,309,983; July 15; v. 264; p. 431.
- Garment-supporter. G. Hake. No. 1,319,703; Oct. 28; v. 267; p. 499.
- Garment-supporter. G. Hake. No. 1,324,347; Dec. 9; v. 269; p. 257.
- Garment-supporter. E. C. Jones. No. 1,310,084; July 15; v. 264; p. 448.
- Garment-supporter. H. F. Maxim and G. F. Perham. No. 1,320,486; Nov. 4; v. 268; p. 24.
- Garment-supporter. E. E. McCain. No. 1,320,641; Nov. 4; v. 268; p. 53.
- Garment-supporter. E. M. Silvermann. No. 1,322,836; Nov. 25; v. 268; p. 632.
- Garment-supporter. H. J. Stuart. No. 1,290,677; Jan. 7; v. 258; p. 161.
- Garment-supporter. A. T. Van Alstyn. No. 1,305,418; June 3; v. 263; p. 35.
- Garment-supporter. A. T. Van Alstyn. No. 1,305,419; June 3; v. 263; p. 36.
- Garment-supporter. L. Woods. No. 1,297,526; Mar. 18; v. 260; p. 445.
- Garment-supporter elastic connection. W. D. Corder. No. 1,297,106; Mar. 11; v. 260; p. 327.
- Garment, Union-. G. W. Pease. No. 1,301,872; Apr. 29; v. 261; p. 820.
- Garment with adjustable waistband. J. Busacker. No. 1,304,452; May 20; v. 262; p. 435.
- Garment, Woman's. L. Kalina. No. 1,313,697; Aug. 19; v. 265; p. 398.
- Garment, Woman's working-. M. E. Rhoads. No. 1,305,307; June 3; v. 263; p. 15.
- Garments and wearing-apparel, Attitude-figure for displaying. P. M. Hotchkiss. No. 1,318,759; Oct. 14; v. 267; p. 271.
- Garments, Combined sleeve and mitten for. H. A. Kaufman. No. 1,296,966; Mar. 11; v. 260; p. 296.
- Garments, Pressing. P. Lungstras. No. 1,293,826; Feb. 11; v. 259; p. 229.
- Garmenting-machine cleaner. G. Schaefer. No. 1,311,293; July 29; v. 264; p. 735.
- Garter. T. Anostopoulos. No. 1,302,454; Apr. 29; v. 261; p. 932.
- Garter. R. Gorton. No. 1,325,717; Dec. 23; v. 269; p. 592.
- Garter. A. W. Ketch. No. 1,320,066; Oct. 28; v. 267; p. 568.
- Garter. H. J. Penn. No. 1,309,912; July 15; v. 264; p. 418.
- Garter. W. H. Stevens. No. 1,313,923; Aug. 26; v. 265; p. 475.
- Garter. A. T. Van Alstyn. No. 1,313,356; Aug. 19; v. 265; p. 334.
- Garter adjustment, Suspended-. J. P. Baumgartner. No. 1,317,676; Oct. 7; v. 267; p. 3.
- Garter-fastener. J. P. Baumgartner. No. 1,317,677; Oct. 7; v. 267; p. 4.
- Garter, Man's. C. L. Meyer. No. 1,309,765; July 15; v. 264; p. 390.
- Garter-package. G. A. Frost. No. 1,301,418; Apr. 22; v. 261; p. 702.



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 Gas-burner, Automatic-cut-off. G. B. Tryon. No. 1,326,550; Dec. 30; v. 269; p. 785.  
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 Gas dissolved in liquid and producing same, Storing mass for. G. Dalén. No. 1,304,160; May 20; v. 262; p. 373.  
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 Gas-engine. M. L. Williams. No. 1,298,132; Mar. 25; v. 260; p. 600.  
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- Gas-engine lock and key. A. A. Armstrong. No. 1,292,673; Jan. 28; v. 258; p. 715.
- Gas-engine, Rotary. J. W. Green. No. 1,305,966; June 3; v. 263; p. 140.
- Gas-engine, Rotary. R. S. Moore. No. 1,293,508; Feb. 4; v. 259; p. 124.
- Gas-engine, Rotary. C. E. Sanborn. No. 1,293,623; Feb. 4; v. 259; p. 151.
- Gas-engine, Rotary-cylinder. R. S. Moore. (Reissue.) No. 1,4,625; Apr. 1; v. 261; p. 181.
- Gas-engine starter. J. Berg. No. 1,315,274; Sept. 9; v. 266; p. 156.
- Gas-engine, Turbine. W. G. Johnston. No. 1,322,577; Nov. 25; v. 268; p. 584.
- Gas-engines, Humidifying attachment for. A. A. Friedstedt. No. 1,317,362; Sept. 30; v. 266; p. 642.
- Gas-engines, Starting mechanism for. F. Conrad. No. 1,317,269; Sept. 30; v. 266; p. 625.
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- Gas for cutting and welding purposes. J. Harris. No. 1,303,891; May 20; v. 262; p. 329.
- Gas from electric storage batteries, Means for and method of utilizing. E. I. Dodds. No. 1,312,311; Aug. 5; v. 265; p. 85.
- Gas from vegetation, Apparatus for generating. F. Pfeiffer. No. 1,303,885; May 13; v. 262; p. 198.
- Gas-fuel steam-generator. W. Dougherty. No. 1,320,539; Nov. 4; v. 268; p. 34.
- Gas-furnace burner. W. W. Stevenson. No. 1,298,817; Apr. 1; v. 261; p. 47.
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- Gas generating and heating apparatus. J. W. Walker, Jr. No. 1,325,062; Dec. 16; v. 269; p. 453.
- Gas-generating apparatus. F. Pfeiffer. No. 1,296,116; Mar. 4; v. 260; p. 69.
- Gas-generating apparatus, Acetylene. P. B. Sullivan. No. 1,315,051; Sept. 2; v. 266; p. 106.
- Gas-generating apparatus, Construction of. J. M. Morris. No. 1,302,199; Apr. 29; v. 261; p. 882.
- Gas-generator. F. F. Harris. No. 1,299,935; Apr. 8; v. 261; p. 327.
- Gas-generator. F. D. Jordan. No. 1,319,344; Oct. 21; v. 267; p. 408.
- Gas-generator. C. B. Wade. No. 1,304,225; May 20; v. 262; p. 390.
- Gas generator, Acetylene. E. Adamson. No. 1,314,780; Sept. 2; v. 266; p. 57.
- Gas generator, Acetylene. O. M. Furr. No. 1,292,302; Jan. 21; v. 258; p. 604.
- Gas generator, Acetylene. A. M. Griffin. No. 1,311,270; July 29; v. 264; p. 731.
- Gas generator, Acetylene. J. A. Muse. No. 1,299,209; Apr. 1; v. 261; p. 185.
- Gas generator and burner. F. A. Elster. No. 1,320,325; Oct. 28; v. 267; p. 615.
- Gas generator and burner. J. E. Evans. No. 1,292,739; Jan. 28; v. 258; p. 730.
- Gas generator, Portable acetylene. J. O. Bewan. No. 1,304,251; May 20; v. 262; p. 395.
- Gas-heater. C. P. Anderson. No. 1,313,045; Aug. 12; v. 265; p. 259.
- Gas-heater. B. C. Bartlebaugh. No. 1,298,277; Mar. 25; v. 260; p. 632.
- Gas-heater. C. Bergmann. No. 1,304,531; May 27; v. 262; p. 489.
- Gas-heater. G. F. Schwartz. No. 1,303,970; May 20; v. 262; p. 344.
- Gas-heater. G. E. Smith. No. 1,319,252; Oct. 21; v. 267; p. 391.
- Gas-heater fender. F. G. Nicolaus. No. 1,294,941; Feb. 18; v. 259; p. 525.
- Gas-heaters, Gas-supply regulator for. W. P. Powers. No. 1,305,742; June 3; v. 263; p. 97.
- Gas-igniter, Pyrophoric. E. C. Murdock and G. J. Kelly. No. 1,312,862; Aug. 12; v. 265; p. 222.
- Gas-igniting apparatus. A. J. O. Deplanque. No. 1,295,130; Feb. 25; v. 259; p. 591.
- Gas-jet, Safety. G. Lebnardi. No. 1,309,482; July 8; v. 264; p. 300.
- Gas-lighter. S. S. Werschansky. No. 1,297,050; Mar. 11; v. 260; p. 315.
- Gas-lighter, Electric. R. F. Dowdy. No. 1,295,285; Feb. 25; v. 259; p. 625.
- Gas-lighting, Burner applicable for use with incandescent mantles for. A. Day. No. 1,304,273; May 20; v. 262; p. 400.
- Gas-mains, Pressure-governor for. W. H. Wright. No. 1,313,447; Aug. 19; v. 265; p. 351.
- Gas maker and combustion apparatus. B. E. Hadley. No. 1,300,230; Apr. 8; v. 261; p. 392.
- Gas, Making producer. H. A. Grine. No. 1,313,180; Aug. 12; v. 265; p. 285.
- Gas mantle and lamp protector. J. A. Everett. No. 1,297,335; Mar. 18; v. 260; p. 406.
- Gas manufacture. R. P. Brousson. No. 1,313,514; Aug. 19; v. 265; p. 364.
- Gas-mask. C. W. Kohler and F. H. Martin. No. 1,315,515; Sept. 9; v. 266; p. 200.
- Gas-mask. P. Wasylowick. No. 1,299,075; Apr. 1; v. 261; p. 106.
- Gas-mask and respirator. N. Schwartz. No. 1,313,745; Aug. 19; v. 265; p. 407.
- Gas-meter. E. S. Dickey. No. 1,301,041; Apr. 15; v. 261; p. 591.
- Gas-meter. E. S. Dickey. No. 1,305,646; June 3; v. 263; p. 79.
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- Gas-meter. E. S. Dickey. No. 1,306,218; June 10; v. 263; p. 216.
- Gas-meter. E. S. Dickey. No. 1,306,219; June 10; v. 263; p. 216.
- Gas-meter. H. H. Sprague. No. 1,293,965; Feb. 11; v. 259; p. 261.
- Gas-meter-connecting device. F. E. Stevens. No. 1,298,596; Mar. 25; v. 260; p. 699.
- Gas meter, Wet. H. Chrisman. No. 1,305,883; June 3; v. 263; p. 123.
- Gas meter, Wet. A. G. Holmes. No. 1,305,800; June 3; v. 263; p. 108.
- Gas, Method of and apparatus for determining the purity of carbonic-acid. C. Spindler. No. 1,303,514; May 13; v. 262; p. 222.
- Gas-mixer. F. A. Coleman. No. 1,293,041; Feb. 4; v. 259; p. 16.
- Gas or oil, Warming system for. J. T. Curtis. No. 1,326,578; Dec. 30; v. 269; p. 790.
- Gas or vapor, Treating material with. F. L. Slocum. No. 1,315,532; Sept. 9; v. 266; p. 203.
- Gas, Preparing ampuls containing liquefied. G. Ornstein. No. 1,325,799; Dec. 23; v. 269; p. 607.
- Gas, Process of and apparatus for generating. F. Pfeiffer. No. 1,296,115; Mar. 4; v. 260; p. 68.
- Gas-producer. A. S. Cambridge. No. 1,318,644; Oct. 14; v. 267; p. 249.
- Gas-producer. E. S. Huntley. No. 1,300,839; Apr. 15; v. 261; p. 547.
- Gas-producer. C. W. Lummis. No. 1,305,913; June 3; v. 263; p. 129.
- Gas-producer. H. L. Millner. No. 1,312,411; Aug. 5; v. 265; p. 104.
- Gas-producer. F. E. Modlin. No. 1,295,188; Feb. 25; v. 259; p. 604.
- Gas-producer. T. R. Wollaston. No. 1,303,527; May 13; v. 262; p. 224.
- Gas-producer. T. R. Wollaston. No. 1,315,269; Sept. 9; v. 266; p. 165.
- Gas-producers, &c., By-product recovery from. N. Testrup and T. Rigby. No. 1,316,339; Sept. 16; v. 266; p. 366.
- Gas-producers, Apparatus for charging. H. A. Carpenter and A. W. Warner. No. 1,322,877; Nov. 25; v. 268; p. 640.
- Gas-producers, Ash-remover for. J. B. Gilliland. No. 1,319,328; Oct. 21; v. 267; p. 405.
- Gas-purifier. F. E. Modlin. No. 1,316,330; Sept. 16; v. 266; p. 364.
- Gas-purifying apparatus. T. Kawai. No. 1,304,884; May 27; v. 262; p. 554.
- Gas reactions, Process and apparatus for effecting. L. Bradley. No. 1,291,745; Jan. 21; v. 258; p. 466.
- Gas, Recovering by-products of illuminating. W. H. Fulweiler. No. 1,310,748; July 22; v. 264; p. 601.
- Gas-regulator. E. G. Lodge. No. 1,300,982; Apr. 15; v. 261; p. 577.
- Gas-regulator. W. P. Powers. No. 1,305,743; June 3; v. 263; p. 97.
- Gas-saver. C. Kyriakos. No. 1,296,406; Mar. 4; v. 260; p. 133.
- Gas-saver for enriching heating and illuminating gas. C. Wright and J. W. Awald. No. 1,319,316; Oct. 21; v. 267; p. 402.
- Gas-saving device for internal-combustion engines. A. Q. Nash. No. 1,320,407; Nov. 4; v. 263; p. 10.
- Gas, Scrubber, cleanser, and cooler for. D. J. Smith. No. 1,307,321; June 17; v. 263; p. 453.
- Gas, Semidirect process of treating coke-oven. O. Piette. No. 1,315,639; Sept. 9; v. 266; p. 221.
- Gas, Separating mixed. C. F. Crommett. No. 1,304,027; May 20; v. 262; p. 354.
- Gas-supply for counter-current furnaces. M. Shoeld. No. 1,317,327; Sept. 30; v. 266; p. 636.
- Gas-tank flash-check. H. S. Smith and A. F. Westlund. No. 1,303,123; May 6; v. 262; p. 123.
- Gas-tank outlet-fixture. A. L. Caven. No. 1,291,401; Jan. 14; v. 258; p. 355.
- Gas-testing machine. L. A. Stenger. No. 1,320,584; Nov. 4; v. 268; p. 43.
- Gas-tight joint. G. Heeley. No. 1,291,869; Jan. 21; v. 258; p. 497.
- Gas-tight seal for compressor-shafts. E. T. Williams. No. 1,292,197; Jan. 21; v. 258; p. 580.
- Gas-tip, Safety. P. P. Hein. No. 1,295,495; Feb. 25; v. 259; p. 674.
- Gas-tractors, Cooling system for. H. W. Adams. No. 1,303,003; May 6; v. 262; p. 100.
- Gas-tubing-attaching socket. R. C. Lewis. No. 1,294,921; Feb. 18; v. 259; p. 520.



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- Gas turbine and silencer, Exhaust-. E. Anderson. No. 1,304,928; May 27; v. 262; p. 563.
- Gas-vapor primer, Automatic. C. P. Wood. No. 1,323,665; Dec. 2; v. 269; p. 82.
- Gas-washer, A. A. Goubert. No. 1,320,852; Nov. 4; v. 268; p. 93.
- Gas-washing apparatus. A. L. Stevens. No. 1,292,125; Jan. 21; v. 258; p. 562.
- Gas water-heaters, Automatic gas control for. P. H. Hamilton. No. 1,317,785; Oct. 7; v. 267; p. 24.
- Gas water-heaters, Automatic regulator for. E. S. Stack. No. 1,292,912; Jan. 28; v. 258; p. 771.
- Gases and apparatus produced thereby, Removing. W. D. Coolidge. No. 1,323,836; Dec. 2; v. 269; p. 115.
- Gases and producing briquetting material, Apparatus for purifying. T. L. Briggs. No. 1,301,373; Apr. 22; v. 261; p. 695.
- Gases and producing briquetting material, Purifying. T. L. Briggs. No. 1,301,372; Apr. 22; v. 261; p. 695.
- Gases and utilizing the heat thereof, Apparatus for washing waste. F. Sargent and H. C. Heaton. No. 1,291,175; Jan. 14; v. 258; p. 302.
- Gases, Apparatus and method of burning combustible. M. K. Dunham. No. 1,301,044; Apr. 15; v. 261; p. 592.
- Gases, Apparatus for analyzing flue-. H. M. Sharp. No. 1,299,865; Apr. 8; v. 261; p. 313.
- Gases, Apparatus for bringing about and controlling reactions between. C. Conover. No. 1,324,443; Dec. 9; v. 269; p. 275.
- Gases, Apparatus for collecting and isolating soluble salts from flue-. L. D. Gilbert, P. S. Taylor, J. G. Dean, and L. E. Elder. No. 1,324,737; Dec. 9; v. 269; p. 331.
- Gases, Apparatus for electrical fixation of. B. Thomas. No. 1,304,823; May 27; v. 262; p. 544.
- Gases, Apparatus for electrical treatment of. L. Bradley. No. 1,325,136; Dec. 16; v. 269; p. 467.
- Gases, Apparatus for electrical treatment of. C. W. J. Hedberg. No. 1,319,706; Oct. 28; v. 267; p. 499.
- Gases, Apparatus for electrical treatment of. A. A. Schmidt. No. 1,309,221; July 8; v. 264; p. 252.
- Gases, Apparatus for removing and reclaiming solids from. E. J. Sweetland. No. 1,321,490; Nov. 11; v. 268; p. 277.
- Gases, Apparatus for separating foreign materials from. W. J. Baldwin. No. 1,292,561; Jan. 28; v. 258; p. 687.
- Gases, Apparatus for the detection and measurement of. G. A. Shakespear. No. 1,304,208; May 20; v. 262; p. 387.
- Gases, Apparatus for treating. W. D. Mount. No. 1,304,697; May 27; v. 262; p. 520.
- Gases at high temperatures and apparatus for practicing same, Producing reactions in. L. L. Summers. No. 1,291,660; Jan. 14; v. 258; p. 416.
- Gases, Burner-tip for acetylene and similar hydrocarbon. A. L. Hansen. No. 1,296,506; Mar. 4; v. 260; p. 154.
- Gases containing hydrogen sulfid, Treating. W. G. Leamon. No. 1,317,583; Sept. 30; v. 266; p. 685.
- Gases containing sulfur dioxide, Treatment of. E. V. Espenbahn. No. 1,315,183; Sept. 2; v. 266; p. 130.
- Gases for illuminating purposes, Burning acetylene and similar hydrocarbon. A. L. Hansen. No. 1,296,507; Mar. 4; v. 260; p. 154.
- Gases in closed systems, Production of reactions in. J. L. la Cour. No. 1,290,584; Jan. 7; v. 258; p. 137.
- Gases, Manufacturing nitrous concentrated. O. Jensen. No. 1,291,909; Jan. 21; v. 258; p. 508.
- Gases, Means for making aqueous solutions of. F. W. Thorold, E. G. R. Ardagh, and J. T. Burt-Gerrans. No. 1,319,734; Oct. 28; v. 267; p. 505.
- Gases, Method and apparatus for mixing and proportioning. W. B. Eddison. No. 1,294,781; Feb. 18; v. 259; p. 488.
- Gases, Method and apparatus for testing. A. B. Lamb and A. T. Larson. No. 1,321,063; Nov. 4; v. 268; p. 133.
- Gases, Method and apparatus for testing. A. B. Lamb and A. T. Larson. No. 1,321,064; Nov. 4; v. 268; p. 133.
- Gases, Method and apparatus for the oxidation of combustible. E. M. Chance. No. 1,298,889; Apr. 1; v. 261; p. 62.
- Gases, Method and means for detecting. G. M. S. Tait. No. 1,305,025; May 27; v. 262; p. 581.
- Gases, Method of and apparatus for mixing and proportioning. W. B. Eddison. No. 1,293,085; Feb. 18; v. 259; p. 557.
- Gases obtained from coal or other carbonaceous fuel, Treatment of. E. V. Espenbahn. No. 1,315,219; Sept. 9; v. 266; p. 146.
- Gases, Portable apparatus for storage and supply of compressed. M. H. Roberts. No. 1,294,707; Feb. 18; v. 259; p. 470.
- Gases, Process and apparatus for precipitating matter from. W. W. Strong. No. 1,325,124; Dec. 16; v. 269; p. 465.
- Gases, Producing concentrated nitrous. B. F. Halvorsen. No. 1,316,950; Sept. 23; v. 266; p. 528.
- Gases, Producing nitrogen and removing oxygen from mixtures of. E. A. Ashcroft. No. 1,320,192; Oct. 28; v. 267; p. 590.
- Gases, Recovery process for waste. I. Hechenbleikner. No. 1,297,464; Mar. 18; v. 260; p. 432.
- Gases, Treating. I. Hechenbleikner. No. 1,299,337; Apr. 1; v. 261; p. 164.
- Gases, Treating cement-killn. H. Blumenberg, Jr. No. 1,296,465; Mar. 4; v. 260; p. 145.
- Gaseous-fuel heater. A. Gray. No. 1,293,413; Feb. 4; v. 259; p. 102.
- Gaseous mixtures, Apparatus for burning explosive. C. E. Lucke. No. 1,308,364; July 1; v. 264; p. 65.
- Gaseous mixtures, Apparatus for quantitatively analyzing. H. Gerdien. No. 1,304,037; May 20; v. 262; p. 356.
- Gaseous mixtures, Method of burning. C. E. Richardson, W. B. Eddison, and H. L. Read. No. 1,308,739; July 1; v. 264; p. 134.
- Gaseous reactions under high pressure, Apparatus for carrying out. C. Medgyes. No. 1,295,917; Mar. 4; v. 260; p. 22.
- Gasifier and fixing device. G. L. Reichhelm. No. 1,310,927; July 22; v. 264; p. 634.
- Gasifying apparatus. D. H. Jefferson. No. 1,300,170; Apr. 8; v. 261; p. 378.
- Gaslighter, Electric. R. F. Dowdy. No. 1,312,622; Aug. 12; v. 265; p. 176.
- Gaslights, Burner for inverted incandescent. J. K. Blokhuys. No. 1,316,014; Sept. 16; v. 266; p. 305.
- Gasoline and other hydrocarbons, Recovery of. W. E. Walker. No. 1,307,280; June 17; v. 263; p. 445.
- Gasoline-can, Sanitary. S. Brickman. No. 1,290,502; Jan. 7; v. 258; p. 118.
- Gasoline-dispenser. J. C. Anderson. No. 1,325,603; Dec. 23; v. 269; p. 571.
- Gasoline-dispensing device. E. Crouse. No. 1,304,028; May 20; v. 262; p. 354.
- Gasoline-engine, Compound. H. G. Williams. No. 1,321,964; Nov. 18; v. 268; p. 417.
- Gasoline-engine-cylinder cleaner. C. Ellis and A. A. Wells. No. 1,310,985; July 22; v. 264; p. 644.
- Gasoline-engine system. R. F. Forkner. No. 1,300,714; Apr. 15; v. 261; p. 520.
- Gasoline from crude oil, Apparatus for making. P. Danckwardt. No. 1,317,077; Sept. 23; v. 266; p. 552.
- Gasoline from hydrocarbon-gases, Obtaining. H. C. Cooper. No. 1,323,837; Dec. 2; v. 269; p. 115.
- Gasoline from hydrocarbon-gases, Obtaining. J. B. Garner. No. 1,299,455; Apr. 8; v. 261; p. 219.
- Gasoline from natural gas, Recovery of. E. S. Merriam. No. 1,304,587; May 27; v. 262; p. 499.
- Gasoline-gage. T. S. Savage. No. 1,314,983; Sept. 2; v. 266; p. 94.
- Gasoline-generator. C. A. Tripp. No. 1,300,304; Apr. 15; v. 261; p. 434.
- Gasoline-heater. H. E. McLaughlin. No. 1,304,896; May 27; v. 262; p. 557.
- Gasoline, Manufacturing. A. D. Smith. No. 1,324,075; Dec. 9; v. 269; p. 205.
- Gasoline-motor. H. I. Sawyer. No. 1,316,192; Sept. 16; v. 266; p. 338.
- Gasoline or other tanks, Ventilating, fire-extinguishing, and steaming apparatus for. T. A. Crompton, Jr. No. 1,302,318; Apr. 29; v. 261; p. 904.
- Gasoline-receptacles, Device for preventing back-firing into. L. Kessler. No. 1,310,241; July 15; v. 264; p. 477.
- Gasoline-regulator. W. A. Fleck. No. 1,292,289; Jan. 21; v. 258; p. 601.
- Gasoline-tank. J. H. Brady. No. 1,308,573; July 1; v. 264; p. 103.
- Gasoline, Tap for barrels, drums, or receptacles containing. S. D. Semenow and H. L. Abramovitz. No. 1,304,390; May 20; v. 262; p. 423.
- Gasket. A. R. Mosler. No. 1,312,338; Aug. 5; v. 265; p. 90.
- Gasket-cutter. B. C. Wilson. No. 1,308,650; July 1; v. 264; p. 117.
- Gasket, Intake-manifold. L. E. Cornu. No. 1,293,718; Feb. 11; v. 259; p. 203.
- Gasket-retaining means. L. D. Woodruff. No. 1,306,043; June 10; v. 263; p. 183.
- Gaskets, Method and machine for manufacture of asbestos. E. Nail. No. 1,307,738; June 24; v. 263; p. 571.
- Gaskets or ring-liners, Applying. C. W. Graham. (Re-issue.) No. 14,709; Aug. 19; v. 265; p. 432.
- Gate: See—
- |                         |                        |
|-------------------------|------------------------|
| Automatic gate.         | Hinge-gate.            |
| Automatic railway-gate. | Mine-gate.             |
| Autotruck end-gate.     | Railway-gate.          |
| Barrier-gate.           | Railway-crossing gate. |
| Crossing-gate.          | Railway safety-gate.   |
| Electric railway-gate.  | Railway stock-gate.    |
| End-gate.               | Scoop-gate.            |
| Extensible gate.        | Silt-gate.             |
| Farm-gate.              | Sluice-gate.           |
| Feed-gate.              | Stock-gate.            |
| Film-gate.              | Tension-gate.          |
| Flume-gate.             | Wagon end-gate.        |
| Folding gate.           | Water-tight head-gate. |
| Folding end-gate.       |                        |
- Gate. J. Anderson. No. 1,296,034; Mar. 4; v. 260; p. 50.
- Gate. G. Beedle. No. 1,307,996; June 24; v. 263; p. 610.

- Gate. O. E. Brower. No. 1,294,383; Feb. 18; v. 259; p. 394.
- Gate. I. R. Burkholder. No. 1,316,080; Sept. 16; v. 266; p. 317.
- Gate. J. H. Cairns. No. 1,292,248; Jan. 21; v. 258; p. 592.
- Gate. J. R. Clark. No. 1,297,099; Mar. 11; v. 260; p. 326.
- Gate. G. W. and C. W. Cole. No. 1,324,647; Dec. 9; v. 269; p. 314.
- Gate. B. P. Critchlow. No. 1,292,437; Jan. 28; v. 258; p. 657.
- Gate. J. W. Hawkins. No. 1,294,339; Feb. 11; v. 259; p. 349.
- Gate. G. F. Hodgson. No. 1,307,126; June 17; v. 263; p. 418.
- Gate. J. S. Jensen. No. 1,322,190; Nov. 18; v. 268; p. 459.
- Gate. J. R. McNabney and C. E. Andrews. No. 1,298,072; Mar. 25; v. 260; p. 587.
- Gate. G. L. Parslow. No. 1,304,199; May 20; v. 262; p. 385.
- Gate. A. V. Rowe. No. 1,294,712; Feb. 18; v. 259; p. 471.
- Gate. T. L. Sipes. No. 1,299,250; Apr. 1; v. 261; p. 144.
- Gate. A. B. Strange. No. 1,324,082; Dec. 9; v. 269; p. 206.
- Gate. J. Werezak. No. 1,297,949; Mar. 18; v. 260; p. 536.
- Gate attachment, Irrigating-. R. S. McDowell. No. 1,325,496; Dec. 16; v. 269; p. 533.
- Gate-closer. A. Gudmundsen. No. 1,314,516; Sept. 2; v. 266; p. 7.
- Gate-closer. W. H. McCarty. No. 1,305,659; June 3; v. 263; p. 82.
- Gate-closing device. M. Anderson. No. 1,319,554; Oct. 21; v. 267; p. 448.
- Gate-controlling apparatus. B. E. Cederstrom and J. H. Mulloy. No. 1,320,201; Oct. 28; v. 267; p. 592.
- Gate fastener, End-. P. H. Spaulding. No. 1,312,279; Aug. 5; v. 265; p. 79.
- Gate-fastening. N. H. Smith. No. 1,325,538; Dec. 23; v. 269; p. 559.
- Gate guard, Separator-. M. H. Reap. No. 1,317,941; Oct. 7; v. 267; p. 53.
- Gate, latch, and hinge-mounting therefor. Farm-. J. Long, and P. A. Pederson. No. 1,325,652; Dec. 23; v. 269; p. 580.
- Gate mechanism. J. M. Edwards. No. 1,311,332; July 29; v. 264; p. 742.
- Gate operating and latch means. O. Adams. No. 1,299,281; Apr. 1; v. 261; p. 152.
- Gate-operating device. M. N. Tomashewsky. No. 1,294,849; Feb. 18; v. 259; p. 504.
- Gate-operating mechanism. I. D. Bates. No. 1,307,804; June 24; v. 263; p. 574.
- Gate-operating mechanism. J. C. Herrmann. No. 1,298,709; Apr. 1; v. 261; p. 20.
- Gates, Assembling-table for end-. B. W. Whitworth. No. 1,303,437; May 13; v. 262; p. 208.
- Gates, doors, or other closures, Mechanism for operating. S. Deutsch and E. L. Gross. No. 1,311,113; July 22; v. 264; p. 668.
- Gates, Support and lock for. L. D. Gregg. No. 1,318,550; Oct. 14; v. 267; p. 231.
- Gauntlet. H. Ross. No. 1,315,421; Sept. 9; v. 266; p. 183.
- Gauntlet-cuff or other blanks of fabric, paper, &c., Machine for cutting. F. R. Evans. No. 1,302,340; Apr. 29; v. 261; p. 908.
- Gauze-dispensing device. G. S. Elder. No. 1,307,542; June 24; v. 263; p. 527.
- Gear. See—
- Automobile steering-gear. Valve-gear.
- Gear. E. Noel. No. 1,324,063; Dec. 9; v. 269; p. 202.
- Gear, William I. (See Robeson, William B., assignor.)
- Gear and axle housing. A. A. L. Johnson. No. 1,291,009; Jan. 14; v. 258; p. 263.
- Gear and clutch, Variable-speed. W. J. Gee. No. 1,303,287; May 13; v. 262; p. 181.
- Gear-and-pinion transmission. G. Edwards. No. 1,320,459; Nov. 4; v. 268; p. 19.
- Gear and transmission, Driving-. J. I. Umsted. No. 1,306,205; June 10; v. 263; p. 214.
- Gear, Antibacklash-. A. Spillman. No. 1,317,232; Sept. 30; v. 266; p. 618.
- Gear, Automatically-adjusting speed or revolution change. G. S. Morison. No. 1,291,654; Jan. 14; v. 258; p. 415.
- Gear, Ball-bearing worm-. H. J. Steffensen. No. 1,307,462; June 24; v. 263; p. 513.
- Gear, Boat steering and reversing. J. G. A. Kitchen. No. 1,306,913; June 17; v. 263; p. 379.
- Gear, Boat steering and reversing. J. G. A. Kitchen. No. 1,306,914; June 17; v. 263; p. 379.
- Gear, Boat steering and reversing. J. G. A. Kitchen. No. 1,315,514; Sept. 9; v. 266; p. 200.
- Gear, Bomb-carrying. H. D. Weed. No. 1,311,630; July 29; v. 264; p. 798.
- Gear-case. A. N. Cramer. No. 1,292,265; Jan. 21; v. 258; p. 596.
- Gear-case and forming same. C. W. Starker and G. L. S. Kronfeld. No. 1,305,019; May 27; v. 262; p. 580.
- Gear casings, Grease-injector for filling differential. A. W. Schank. No. 1,318,414; Oct. 14; v. 267; p. 205.
- Gear, Change-speed. T. Volpe. No. 1,292,384; Jan. 21; v. 258; p. 623.
- Gear, Combination drive and steering. F. Runnalls. No. 1,315,040; Sept. 2; v. 266; p. 104.
- Gear, Composite. C. H. Calkins. No. 1,316,270; Sept. 16; v. 266; p. 353.
- Gear construction, Landing-. N. W. Dalton. No. 1,290,102; Jan. 7; v. 258; p. 21.
- Gear-cutting attachment for milling-machines. D. W. Sanders. No. 1,314,706; Sept. 2; v. 266; p. 44.
- Gear cutting, generating, or like machine. P. Brown and F. J. Bostock. No. 1,316,825; Sept. 23; v. 266; p. 505.
- Gear-cutting machine. P. Brown and F. J. Bostock. No. 1,322,872; Nov. 25; v. 268; p. 639.
- Gear-cutting machine. C. E. Derr. -No. 1,290,929; Jan. 14; v. 258; p. 246.
- Gear-cutting machine. C. E. Derr. No. 1,297,332; Mar. 18; v. 260; p. 405.
- Gear-cutting machine. C. E. Derr. No. 1,322,673; Nov. 25; v. 268; p. 602.
- Gear-cutting machine. R. E. Garrett. No. 1,312,245; Aug. 5; v. 265; p. 73.
- Gear-cutting machine. M. Maag. No. 1,290,270; Jan. 7; v. 258; p. 62.
- Gear-cutting machine. J. C. O'Brien. No. 1,326,610; Dec. 30; v. 269; p. 796.
- Gear-cutting machinery. J. E. Gleason. No. 1,325,784; Dec. 23; v. 269; p. 604.
- Gear-cutting machinery. A. L. Stewart. No. 1,324,475; Dec. 9; v. 269; p. 282.
- Gear-cutting tool. H. D. Williams. No. 1,313,034; Aug. 12; v. 265; p. 257.
- Gear, Differential. A. Franks. No. 1,325,938; Dec. 23; v. 269; p. 633.
- Gear, Diving-. H. W. Shonnard. No. 1,296,332; Mar. 4; v. 260; p. 117.
- Gear, Draft-. J. F. Courson. No. 1,319,210; Oct. 21; v. 267; p. 383.
- Gear, Draft and steering. K. Byron. No. 1,308,476; July 1; v. 264; p. 85.
- Gear, Drilling-. S. J. Mathews. No. 1,300,988; Apr. 15; v. 261; p. 579.
- Gear drive, Oil-retaining internal-. A. P. Herff. No. 1,305,103; May 27; v. 262; p. 596.
- Gear, Duplex V-strut landing-. H. Kleckler. No. 1,294,476; Feb. 18; v. 259; p. 417.
- Gear for dynamo-electric machines, Brush-. J. C. Todman, T. L. R. Cooper, and A. A. Lyon. No. 1,298,829; Apr. 1; v. 261; p. 49.
- Gear for electrically-propelled vehicles, Safety controlling-. F. Garrett, Jr., and H. K. Pratt. No. 1,323,179; Nov. 25; v. 268; p. 698.
- Gear for hydraulic transmission, Control-. W. E. Magie. No. 1,299,751; Apr. 8; v. 261; p. 287.
- Gear for hydraulic valves, Operating-. H. Crowe. No. 1,313,523; Aug. 19; v. 265; p. 366.
- Gear for marine propulsion, Torsion-. G. Edwards. No. 1,299,564; Apr. 8; v. 261; p. 244.
- Gear for motor-cars, Differential. A. Aichele. No. 1,301,800; Apr. 29; v. 261; p. 807.
- Gear for trailers, Short-turning. A. Arato. No. 1,294,859; Feb. 18; v. 259; p. 506.
- Gear for vehicle-springs, Equalizing-. H. L. Bock. No. 1,314,784; Sept. 2; v. 266; p. 58.
- Gear, Friction-. W. H. Miner. No. 1,307,303; June 17; v. 263; p. 450.
- Gear, Friction-. J. F. O'Connor. No. 1,290,304; Jan. 7; v. 258; p. 71.
- Gear, Friction-. J. F. O'Connor. No. 1,290,316; Jan. 7; v. 258; p. 73.
- Gear, Friction-. J. F. O'Connor. No. 1,290,324; Jan. 7; v. 258; p. 75.
- Gear, Friction-. J. F. O'Connor. No. 1,307,309; June 17; v. 263; p. 451.
- Gear having removable friction-shells, Friction-. C. B. Patch. No. 1,300,480; Apr. 15; v. 261; p. 471.
- Gear, High-capacity friction-. J. F. O'Connor. No. 1,300,462; Apr. 15; v. 261; p. 467.
- Gear, Internal. H. D. Williams. No. 1,313,035; Aug. 12; v. 265; p. 257.
- Gear-lapping machine. D. D. Armsby and C. H. Logue. No. 1,304,699; May 27; v. 262; p. 521.
- Gear lock, Transmission-. C. E. Harding. No. 1,312,728; Aug. 12; v. 265; p. 196.
- Gear-locking device, Worm-. L. L. Scott. No. 1,301,180; Apr. 22; v. 261; p. 656.
- Gear-locking mechanism. M. G. Zoeller. No. 1,294,858; Feb. 18; v. 259; p. 506.
- Gear manufacture. F. F. Beall. No. 1,305,050; May 27; v. 262; p. 586.
- Gear mechanism. H. D. Church. No. 1,293,711; Feb. 11; v. 259; p. 201.
- Gear mechanism, Reversing-. S. Baader. No. 1,299,284; Apr. 1; v. 261; p. 152.
- Gear mechanism, Short-turn. T. Sandstrom. No. 1,313,954; Aug. 26; v. 265; p. 481.
- Gear-remover. C. P. Beach. No. 1,313,511; Aug. 19; v. 265; p. 363.
- Gear-ring for rotary kilns. J. T. Jeter. No. 1,312,252; Aug. 5; v. 265; p. 75.
- Gear, Sectional. W. Brinton. 1,308,160; July 1; v. 264; p. 28.



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- Gear-shift controller. W. C. Stevens. No. 1,299,257; Apr. 1; v. 261; p. 146.
- Gear-shift, Controller for electric. H. L. Van Valkenburg. No. 1,316,123; Sept. 16; v. 266; p. 324.
- Gear-shift-lever lock. A. C. Curran. No. 1,321,012; Nov. 4; v. 268; p. 123.
- Gear-shift lever-lock. C. L. Johnson. No. 1,299,954; Apr. 8; v. 261; p. 332.
- Gear-shift levers, Safety-lock for. R. W. Ellingham. No. 1,326,041; Dec. 23; v. 269; p. 652.
- Gear-shift lock. A. E. McDonald. No. 1,296,099; Mar. 4; v. 260; p. 64.
- Gear-shift-locking mechanism. T. A. Goode. No. 1,307,354; June 24; v. 263; p. 492.
- Gear-shift, Mechanical. G. T. Randol. No. 1,300,874; Apr. 15; v. 261; p. 554.
- Gear-shift, Motor type of electric. H. J. Murray. No. 1,295,920; Mar. 4; v. 260; p. 22.
- Gear-shifting apparatus. J. H. Stortz. No. 1,315,255; Sept. 9; v. 266; p. 153.
- Gear-shifting device. E. M. Bussinger and J. Weiss. No. 1,316,828; Sept. 23; v. 266; p. 506.
- Gear-shifting device. G. Q. Seaman. No. 1,296,436; Mar. 4; v. 260; p. 138.
- Gear-shifting device. G. L. Walker. No. 1,300,676; Apr. 15; v. 261; p. 512.
- Gear-shifting device. A. Weber, W. E. Leibing, and J. P. H. Jacobsen. No. 1,300,902; Apr. 15; v. 261; p. 561.
- Gear-shifting lever, Motor-vehicle. F. Johnson. No. 1,308,495; July 1; v. 264; p. 89.
- Gear-shifting lock. J. L. Weller and F. E. Winchester. No. 1,296,026; Mar. 4; v. 260; p. 48.
- Gear-shifting mechanism. H. D. Church. No. 1,305,063; May 27; v. 262; p. 588.
- Gear-shifting mechanism. H. D. Church. No. 1,321,087; Nov. 11; v. 268; p. 201.
- Gear-shifting mechanism. F. Conrad. No. 1,296,433; Mar. 4; v. 260; p. 148.
- Gear-shifting mechanism. K. Cottrill. No. 1,319,514; Oct. 21; v. 267; p. 440.
- Gear-shifting mechanism. W. H. Daniel. No. 1,299,557; Apr. 8; v. 261; p. 242.
- Gear-shifting mechanism. R. Huff. No. 1,293,783; Feb. 11; v. 259; p. 219.
- Gear-shifting mechanism. H. D. Peaslee. No. 1,321,942; Nov. 18; v. 268; p. 413.
- Gear-shifting mechanism. L. W. Penny. No. 1,317,175; Sept. 30; v. 266; p. 607.
- Gear-shifting mechanism. H. J. Wiegand. No. 1,313,362; Aug. 19; v. 265; p. 335.
- Gear-shifting mechanism, Electric. A. P. Reidele. No. 1,319,246; Oct. 21; v. 267; p. 390.
- Gear-shifting mechanism for automobiles and the like. W. P. Boyd. No. 1,309,650; July 15; v. 264; p. 375.
- Gear, Ship's steering. C. E. Paine. No. 1,309,076; July 8; v. 264; p. 225.
- Gear, Short-turning. A. Bjerkass. No. 1,298,650; Apr. 1; v. 261; p. 6.
- Gear, Speed-reducing. G. Bouton. No. 1,311,310; July 29; v. 264; p. 738.
- Gear, Speed-reducing. L. G. E. Buehler. No. 1,320,530; Nov. 4; v. 268; p. 32.
- Gear, Speed regulating or reducing. D. and J. Smith. No. 1,295,807; Feb. 25; v. 259; p. 747.
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- Gear-teeth, Machine for generating. C. H. Schurr. No. 1,323,382; Dec. 2; v. 269; p. 30.
- Gear-testing machine. C. G. Olson. No. 1,304,592; May 27; v. 262; p. 500.
- Gear-train. C. A. Parsons, S. S. Cook, and E. B. Chapman. No. 1,302,963; May 6; v. 262; p. 92.
- Gear, Transmission-. W. G. Beatty. No. 1,304,648; May 27; v. 262; p. 511.
- Gear transmission, Positive. F. E. Taylor. No. 1,320,658; Nov. 4; v. 268; p. 56.
- Gear, Vehicle running-. J. W. Coburn. No. 1,320,739; Nov. 4; v. 268; p. 71.
- Gear-wheel. K. Alquist. No. 1,326,706; Dec. 30; v. 269; p. 814.
- Gear-wheel. E. J. Guay. No. 1,297,835; Mar. 18; v. 260; p. 511.
- Gear-wheel. H. W. Wright and J. M. Ratcliff. No. 1,312,818; Aug. 12; v. 265; p. 214.
- Gear-wheels, Device for testing the teeth of bevel. J. Laessker. No. 1,296,195; Mar. 4; v. 260; p. 87.
- Gear, Worm-. W. E. Bock. No. 1,320,372; Nov. 4; v. 268; p. 3.
- Gears, Broaching-machine attachment for broaching teeth of large internal. M. J. Acton. No. 1,300,092; Apr. 8; v. 261; p. 362.
- Gears, Control for transmission-. A. C. Ekle. No. 1,309,469; July 8; v. 264; p. 298.
- Gears, Cutting worm-. A. Benson. No. 1,302,126; Apr. 29; v. 261; p. 868.
- Gears, Forming worm-. W. E. Bock. No. 1,305,437; June 3; v. 263; p. 39.
- Gears, Locking device for differential. E. T. McKaig. No. 1,308,290; July 1; v. 264; p. 52.
- Gears, Machine for cutting crown-. E. R. Fellows. No. 1,306,331; June 10; v. 263; p. 239.
- Gears, Making noiseless. J. P. Wright. No. 1,315,896; Sept. 9; v. 266; p. 269.
- Gears, Method of and machine for cutting. I. E. McCracken. No. 1,310,761; July 22; v. 264; p. 603.
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- Gearing. G. Cumerford and J. S. Lingard. No. 1,319,926; Oct. 28; v. 267; p. 541.
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- Gearing, Change-speed. A. Aichele. No. 1,299,094; Apr. 1; v. 261; p. 110.
- Gearing, Change-speed. F. M. Hambek. No. 1,312,981; Aug. 12; v. 265; p. 246.
- Gearing, Change-speed. L. A. Peterson. No. 1,320,911; Nov. 4; v. 268; p. 104.
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- Gearing, Change-speed transmission-. A. B. Landis. No. 1,296,534; Mar. 4; v. 260; p. 160.
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- Gearing, Differential. C. M. Eason and R. O. Hendrickson. No. 1,315,217; Sept. 9; v. 266; p. 146.
- Gearing, Differential. A. O. Williams. No. 1,297,954; Mar. 18; v. 260; p. 537.
- Gearing, Differential. A. O. Williams. No. 1,310,976; July 22; v. 264; p. 643.
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- Gearing for tractors. W. Q. Pfahler. No. 1,319,176; Oct. 21; v. 267; p. 377.
- Gearing for well-rigs, Reversing. F. J. Moser. No. 1,302,576; May 6; v. 262; p. 18.
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- Gearing, Transmission and controlling. E. T. Silvius. No. 1,322,965; Nov. 25; v. 268; p. 656.
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- Gearing, Variable-speed. G. E. Hallenbeck. No. 1,297,462; Mar. 18; v. 260; p. 432.
- Gearing, Variable-speed. E. G. Johanson. No. 1,294,394; Feb. 18; v. 259; p. 397.
- Gearing, Variable-speed. G. J. Thomas. No. 1,323,501; Dec. 2; v. 269; p. 52.
- Gearing, Variable-speed. C. D. Wood. No. 1,322,388; Nov. 18; v. 268; p. 497.
- Gearing, Variable-speed-transmission. R. L. Dailey. No. 1,317,272; Sept. 30; v. 266; p. 625.
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- Acetylene-generator. Gasolene-generator.
  - Acetylene-gas generator. Ignition-generator.
  - Carbid-generator. Magneto-generator.
  - Carbid-gas generator. Oscillation-generator.
  - Electric generator. Ozone-generator.
  - Electrical generator. Power-generator.
  - Electrical-oscillation generator. Smoke-generator.
  - Gas-generator. Steam-generator.
  - Gas and steam generator. Steam-motor generator.
  - Gas-fuel steam-generator. Vapor-generator.
- Generator. B. W. David. No. 1,295,278; Feb. 25; v. 259; p. 624.
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- Generator and burner. A. A. Rusteberg. No. 1,320,928; Nov. 4; v. 268; p. 107.
- Generator and storage-battery system for lighting. J. K. Elderkin, Jr. No. 1,320,747; Nov. 4; v. 268; p. 73.
- Generator, light and horn, Combination. H. R. van Deventer. No. 1,325,425; Dec. 16; v. 269; p. 520.
- Generator-testing apparatus. F. W. Corson. No. 1,296,164; Mar. 4; v. 260; p. 80.
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- Geometrical and drafting instrument. C. A. Gilson. No. 1,291,476; Jan. 14; v. 258; p. 373.
- Geometrical instrument. P. Benson. No. 1,306,165; June 10; v. 263; p. 206.
- Geometrical machine. W. S. Eaton. No. 1,294,639; Feb. 18; v. 259; p. 454.
- Germicide, insecticide and like gases, Apparatus for the production of. L. Durand and G. Bottin. No. 1,299,309; Apr. 1; v. 261; p. 158.
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- Gin-saw-sharpening machine. R. H. Butters. No. 1,298,002; Mar. 25; v. 260; p. 573.
- Gins, Cleaning attachment for roller-. C. E. Coldwell. No. 1,326,441; Dec. 30; v. 269; p. 764.
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- Ginger-root, Extracting pungent principle from. H. Nomura. No. 1,306,710; June 17; v. 263; p. 342.
- Girder, Built-up wooden. W. G. Tarrant. No. 1,317,334; Sept. 30; v. 266; p. 637.
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  - Glass. H. P. Gage. No. 1,295,299; Feb. 25; v. 259; p. 629.
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  - Glass. H. P. Gage and W. C. Taylor. No. 1,305,794; June 3; v. 263; p. 106.
  - Glass. E. C. Sullivan and W. C. Taylor. No. 1,304,623; May 27; v. 262; p. 506.
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  - Glass and batch therefor. W. C. Taylor. No. 1,292,148; Jan. 21; v. 258; p. 568.
  - Glass and making same, Reinforced. C. and V. Shuman. No. 1,324,361; Dec. 9; v. 269; p. 259.
  - Glass and making the same. B. F. Drakenfield, Jr. No. 1,303,268; May 13; v. 262; p. 178.
  - Glass and making the same. B. F. Drakenfield, Jr. No. 1,303,269; May 13; v. 262; p. 178.
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  - Glass apparatus. C. Donaldson, J. J. Bloxson, and J. K. Brooks. No. 1,311,804; July 29; v. 264; p. 830.
  - Glass apparatus. R. W. Hilton. No. 1,309,199; July 8; v. 264; p. 247.
  - Glass, Apparatus and process for drawing. R. S. Pease. No. 1,299,019; Apr. 1; v. 261; p. 92.
  - Glass, Apparatus for annealing. J. W. Cruikshank. No. 1,313,222; Aug. 12; v. 265; p. 293.
  - Glass, Apparatus for building up objects of quartz. W. S. Quimby and F. W. Robinson. No. 1,314,212; Aug. 26; v. 265; p. 530.
  - Glass, Apparatus for cutting. J. Waterloo. No. 1,324,219; Dec. 9; v. 269; p. 232.
  - Glass, Apparatus for feeding and delivering. J. Schies. No. 1,312,876; Aug. 12; v. 265; p. 225.
  - Glass, Apparatus for feeding molten. W. A. Lorenz. No. 1,300,180; Apr. 8; v. 261; p. 380.
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  - Glass, Apparatus for making sheet. M. J. Owens. No. 1,319,175; Oct. 21; v. 267; p. 376.
  - Glass, Apparatus for manufacturing articles of. W. J. Miller. No. 1,308,095; July 1; v. 264; p. 16.
  - Glass, Apparatus for rolling ribbed. W. Cox. No. 1,313,071; Aug. 12; v. 265; p. 264.
  - Glass, Apparatus for the manufacture of plate. H. K. Hitchcock. No. 1,307,357; June 24; v. 263; p. 493.
  - Glass articles, Apparatus for forming. E. C. Gmelin. No. 1,325,785; Dec. 23; v. 269; p. 605.
  - Glass articles, Drawing hollow. O. A. Wells. No. 1,301,771; Apr. 22; v. 261; p. 771.
  - Glass articles, Machine for shaping tubular. R. Koenig. No. 1,304,691; May 27; v. 262; p. 519.
  - Glass articles, Manufacture of. T. Stenhouse. No. 1,297,412; Mar. 18; v. 260; p. 421.
  - Glass articles to annealing-furnaces, Apparatus for transferring. J. P. Mingle and A. G. Wilson. No. 1,321,072; Nov. 4; v. 268; p. 134.
  - Glass beveling and polishing apparatus. F. A. Antonich. No. 1,309,792; July 15; v. 264; p. 395.
  - Glass-blowing apparatus. H. E. and C. L. Quackenbush. No. 1,313,205; Aug. 12; v. 265; p. 290.
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  - Glass-blowing machine. F. W. Stewart. No. 1,294,319; Feb. 11; v. 259; p. 341.
  - Glass-blowing machine. A. Wilzin. No. 1,292,940; Jan. 28; v. 258; p. 777.
  - Glass bottles and glass shaping and blowing machine therefor, Manufacture of. A. Wilzin. No. 1,325,388; Dec. 16; v. 269; p. 514.



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- Glass by suction, Method of and apparatus for gathering. E. Roirant. No. 1,311,249; July 29; v. 264; p. 727.
- Glass caue and glass tubing, Apparatus for drawing. C. H. Quackenbush and J. C. Smedley. No. 1,325,265; Dec. 16; v. 269; p. 491.
- Glass, Casting plate-. W. L. Clause. No. 1,298,893; Apr. 1; v. 261; p. 63.
- Glass-cutter. M. J. Scullin. No. 1,308,260; July 1; v. 264; p. 46.
- Glass-cutter holder, Sheet-. G. W. Klages. No. 1,301,950; Apr. 29; v. 261; p. 835.
- Glass-cutting machine. J. Waterloo. No. 1,296,886; Mar. 11; v. 260; p. 278.
- Glass-cutting mechanism. G. P. MacNichol. No. 1,298,987; Apr. 1; v. 261; p. 86.
- Glass cylinders, Apparatus and method employed in manufacturing window-. J. H. Campbell. No. 1,318,050; Oct. 7; v. 267; p. 74.
- Glass cylinders, Apparatus for making. G. C. Debay. No. 1,314,638; Sept. 2; v. 266; p. 31.
- Glass cylinders, Apparatus for manufacturing window-. H. J. Walter. No. 1,318,190; Oct. 7; v. 267; p. 101.
- Glass cylinders, Drawing hollow. W. L. Monro. No. 1,295,348; Feb. 25; v. 259; p. 640.
- Glass cylinders, Horse for. J. H. Campbell. No. 1,312,306; Aug. 5; v. 265; p. 84.
- Glass cylinders, Method and apparatus for manufacturing window-. J. H. Campbell. No. 1,312,305; Aug. 5; v. 265; p. 84.
- Glass cylinders, Splitting-buck for. J. Murphy. No. 1,307,209; June 17; v. 263; p. 432.
- Glass delivering and melting apparatus. E. Roirant. No. 1,307,150; June 17; v. 263; p. 422.
- Glass-delivery apparatus, High-speed. A. L. Schram. No. 1,317,827; Oct. 7; v. 267; p. 32.
- Glass, Drawing. J. A. Sweet. No. 1,295,158; Feb. 25; v. 259; p. 597.
- Glass-drawing apparatus. H. K. Hitchcock. No. 1,309,942; July 15; v. 264; p. 423.
- Glass-drawing apparatus. H. K. Hitchcock. No. 1,324,965; Dec. 16; v. 269; p. 435.
- Glass-drawing apparatus. W. Westbury. No. 1,326,241; Dec. 30; v. 269; p. 726.
- Glass-drawing apparatus, Electrically-heated bait for. L. S. Skelton. No. 1,326,296; Dec. 30; v. 269; p. 737.
- Glass-drawing bait. H. F. Clark. No. 1,324,229; Dec. 9; v. 269; p. 233.
- Glass-drawing bait. G. C. Debay. No. 1,321,810; Nov. 18; v. 268; p. 389.
- Glass, Drawing-pot for. R. L. and F. J. Frink. No. 1,302,149; Apr. 29; v. 261; p. 872.
- Glass-drawing tank. W. A. Jones. No. 1,321,752; Nov. 11; v. 268; p. 327.
- Glass, Faucet for delivering molten. C. H. Hubbard and G. Ruppert. (Reissue.) No. 14,745; Oct. 28; v. 267; p. 625.
- Glass, Flowing molten. J. Whittemore. No. 1,310,225; July 15; v. 264; p. 474.
- Glass-forming apparatus, Mechanism for effecting spindle movements in. A. Kadow. No. 1,315,130; Sept. 2; v. 266; p. 119.
- Glass-forming machine. R. La France. No. 1,299,482; Apr. 8; v. 261; p. 225.
- Glass-forming machine. R. La France. No. 1,319,098; Oct. 21; v. 267; p. 360.
- Glass-forming machine. F. O'Neill. No. 1,315,983; Sept. 16; v. 266; p. 300.
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- Glass-furnace. H. Douchamp. No. 1,298,474; Mar. 25; v. 260; p. 673.
- Glass-furnace. A. F. Peeters. No. 1,293,533; Feb. 4; v. 259; p. 130.
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- Glass-furnace, Apartment-tank. W. N. Mathews. No. 1,324,917; Dec. 16; v. 269; p. 426.
- Glass-furnace, Regenerative. W. E. Matthews. No. 1,324,918; Dec. 16; v. 269; p. 426.
- Glass gathering and blowing machine. M. J. Owens. No. 1,322,726; Nov. 25; v. 268; p. 612.
- Glass gathering and blowing machine, Automatic. A. Wilzin. No. 1,297,981; Mar. 18; v. 260; p. 543.
- Glass-gathering machine and process. J. O. Jensen and J. Henle. No. 1,304,568; May 27; v. 262; p. 496.
- Glass, Internal-lock bait for drawing. J. R. Scohy. No. 1,311,137; July 22; v. 264; p. 673.
- Glass-jar-cover holder. A. J. Holdsworth. No. 1,298,212; Mar. 25; v. 260; p. 618.
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- Glass, Manufacture of. H. A. Galt. No. 1,312,784; Aug. 12; v. 265; p. 207.
- Glass, Manufacture of sheet-. J. Proeger. No. 1,320,091; Oct. 28; v. 267; p. 572.
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- Glass, Method and machine for gathering. K. E. Peiler. No. 1,324,464; Dec. 9; v. 269; p. 280.
- Glass, Method of and apparatus for drawing hollow. C. P. Byrnes. No. 1,326,571; Dec. 30; v. 269; p. 789.
- Glass-molding apparatus. E. G. Johanson. No. 1,297,566; Mar. 18; v. 260; p. 453.
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- Glass-rod machine and process. R. M. Corl and H. F. Hagemeyer. No. 1,298,463; Mar. 25; v. 260; p. 670.
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- Grain-drill. W. Fetzer. No. 1,314,863; Sept. 2; v. 266; p. 72.
- Grain-drill. T. Larson. No. 1,306,823; June 17; v. 263; p. 362.
- Grain-drill. H. Nelson. No. 1,308,252; July 1; v. 264; p. 45.
- Grain-drill hopper. M. J. Fritz. No. 1,305,273; June 3; v. 263; p. 9.
- Grain-drills, Disk-bearing for. C. W. Robinson. No. 1,306,776; June 17; v. 263; p. 354.
- Grain-drills, Feed-cup for. C. W. Robinson. No. 1,291,151; Jan. 14; v. 258; p. 297.
- Grain-elevator. C. M. Leffer. No. 1,301,142; Apr. 22; v. 261; p. 648.
- Grain elevator and stacker, Portable. F. J. Hudzinski. No. 1,297,852; Mar. 18; v. 260; p. 515.
- Grain-elevator and the like. W. Sundberg. No. 1,294,566; Feb. 18; v. 259; p. 437.
- Grain-grinding mill. A. T. Hare. No. 1,296,797; Mar. 11; v. 260; p. 256.
- Grain-guide, Riddle-box. J. M. Lowden and A. A. Fehrenbacher. No. 1,317,802; Oct. 7; v. 267; p. 27.
- Grain header and binder endless conveyor. J. L. Kiner. No. 1,294,675; Feb. 18; v. 259; p. 463.
- Grain-header, Detachable. D. M. Converse. No. 1,312,388; Aug. 5; v. 265; p. 100.
- Grain, Machine for treating seed-. W. H. Herrmann. No. 1,324,312; Dec. 9; v. 269; p. 250.
- Grain, Method and apparatus for bleaching. H. H. Hicks. No. 1,324,048; Dec. 9; v. 269; p. 199.
- Grain, Method of and apparatus for planting. W. R. Tulloss. No. 1,311,427; July 29; v. 264; p. 760.
- Grain-pitcher. O. C. Welch. No. 1,294,212; Feb. 11; v. 259; p. 320.
- Grain-rack. G. S. Sowers. No. 1,319,729; Oct. 28; v. 267; p. 504.
- Grain-sacks, Shield for. H. J. Greenwell. No. 1,322,167; Nov. 18; v. 268; p. 454.
- Grain-separator. J. E. Berman. No. 1,294,030; Feb. 11; v. 259; p. 277.
- Grain-separator. R. T. F. Dodds. No. 1,321,510; Nov. 11; v. 268; p. 281.
- Grain-separator. T. O. Helgeson. No. 1,299,341; Apr. 1; v. 261; p. 165.
- Grain-separator. R. R. Johnston. No. 1,308,496; July 1; v. 264; p. 89.
- Grain-separator. J. H. Lee and J. C. Dieckman. No. 1,323,877; Dec. 2; v. 269; p. 123.
- Grain-separator. I. O. Sohn. No. 1,317,181; Sept. 30; v. 266; p. 608.
- Grain-separator. P. H. Vaughn. No. 1,321,263; Nov. 11; v. 268; p. 234.
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- Grain-separator. T. C. Vaughn. No. 1,325,219; Dec. 16; v. 269; p. 483.
- Grain-separator. J. K. White. No. 1,306,239; June 10; v. 263; p. 222.
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- Grain-shocker. C. R. Raney. No. 1,293,922; Feb. 11; v. 259; p. 251.
- Grain-shocking machine. C. Christiansen. No. 1,295,271; Feb. 25; v. 259; p. 623.
- Grain-shocking machine. C. F. A. Dahn. No. 1,323,678; Dec. 2; v. 269; p. 85.
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- Grain, stock, and plain rack with stock-chute, Combined. G. S. Sowers. No. 1,322,068; Nov. 18; v. 268; p. 436.
- Grain-testing device. R. C. Harbord. No. 1,310,567; July 22; v. 264; p. 568.
- Grain, Treating. J. I. Logan. No. 1,307,367; June 24; v. 263; p. 495.
- Grain-treating apparatus. L. D. Smith. No. 1,313,027; Aug. 12; v. 265; p. 255.
- Grain, Treating standing. J. Hanson. No. 1,297,684; Mar. 18; v. 260; p. 479.
- Grain-weigher. C. F. Clements. No. 1,312,832; Aug. 12; v. 265; p. 217.
- Grain-weigher. J. B. Van Pelt. No. 1,308,882; July 8; v. 264; p. 188.
- Grain-weigher. E. Wiedinger. No. 1,300,314; Apr. 15; v. 261; p. 436.
- Graining. F. Gifford. No. 1,317,700; Oct. 7; v. 267; p. 8.
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- Gramophone-amplifier. W. R. Free. No. 1,318,201; Oct. 7; v. 267; p. 103.
- Gramophone and the like. C. J. Ryan. No. 1,298,406; Mar. 25; v. 260; p. 658.
- Gramophone-motor. I. G. Fosler. No. 1,324,657; Dec. 9; v. 269; p. 316.
- Gramophones, Automatic stop for. O. O. Storle. No. 1,317,236; Sept. 30; v. 266; p. 618.
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- Granulated or pulverized materials, Device for feeding. F. B. Leopold. No. 1,324,508; Dec. 9; v. 269; p. 288.
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- Grape-cutter. T. Satow. No. 1,291,176; Jan. 14; v. 258; p. 303.
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- Graphic recording instrument. O. White and J. Kremer. No. 1,316,658; Sept. 23; v. 266; p. 475.
- Graphite ores, Process and apparatus for concentration of. L. J. Wheeler and H. R. Robbins. No. 1,318,003; Oct. 7; v. 267; p. 65.
- Graphophone and disk record holder. J. Heitman. No. 1,297,160; Mar. 11; v. 260; p. 339.
- Graphophone reproducing device. H. R. Adams. No. 1,301,631; Apr. 22; v. 261; p. 742.
- Graphophone speed-regulator. E. M. Hill. No. 1,325,673; Dec. 23; v. 269; p. 584.
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- Grinding and cutting machine. L. A. Franzen. No. 1,306,423; June 10; v. 263; p. 256.
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- Grinding and similar machine. W. Arter. No. 1,324,992; Dec. 16; v. 269; p. 440.
- Grinding and smoothing mechanism, Method of and apparatus for applying finely-divided material to. H. K. Hitchcock. No. 1,311,517; July 29; v. 264; p. 777.
- Grinding and smoothing mechanism, Method of and apparatus for applying finely-divided material to. H. K. Hitchcock. No. 1,311,518; July 29; v. 264; p. 778.
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- Grinding apparatus. C. W. Smithson and J. H. Shank. No. 1,294,315; Feb. 11; v. 259; p. 344.
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- Grinding device, Cutter-. A. Latham. No. 1,308,085; July 1; v. 264; p. 15.
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- Grinding facets of a predetermined width on glass plates, Apparatus for. S. L. van der Meulen. No. 1,310,263; July 15; v. 264; p. 481.
- Grinding instrumentality and producing same. B. Forsyth. No. 1,308,007; June 24; v. 263; p. 612.
- Grinding-machine. W. Arter. No. 1,294,024; Feb. 11; v. 259; p. 276.
- Grinding-machine. F. L. Barr. No. 1,306,400; June 10; v. 263; p. 252.
- Grinding-machine. L. N. Bruner. No. 1,301,375; Apr. 22; v. 261; p. 695.
- Grinding-machine. L. N. Bruner. No. 1,302,506; May 6; v. 262; p. 6.
- Grinding-machine. W. L. Bryant. No. 1,300,923; Apr. 15; v. 261; p. 565.
- Grinding-machine. B. F. Clark. No. 1,314,304; Aug. 26; v. 265; p. 548.
- Grinding-machine. J. De Koning and S. O. Livingston. No. 1,293,048; Feb. 4; v. 259; p. 18.
- Grinding-machine. J. De Koning. No. 1,324,497; Dec. 9; v. 269; p. 286.
- Grinding-machine. R. Forsyth. No. 1,308,008; June 24; v. 263; p. 612.
- Grinding-machine. A. B. Fowler. No. 1,320,462; Nov. 4; v. 268; p. 20.
- Grinding-machine. C. Knowles. No. 1,324,123; Dec. 9; v. 269; p. 213.
- Grinding-machine. C. Knowles and H. D. Tanner. No. 1,324,124; Dec. 9; v. 269; p. 214.
- Grinding-machine. A. Latham. No. 1,290,248; Jan. 7; v. 258; p. 57.
- Grinding-machine. H. M. Loomer. No. 1,308,088; July 1; v. 264; p. 15.
- Grinding-machine. C. G. Olson. No. 1,297,396; Mar. 18; v. 260; p. 418.
- Grinding-machine. H. J. Perkins. No. 1,311,992; Aug. 5; v. 265; p. 26.
- Grinding-machine. I. C. Putnam. No. 1,323,490; Dec. 2; v. 269; p. 50.
- Grinding-machine. C. Reisch and G. Kuhn. No. 1,292,372; Jan. 21; v. 258; p. 621.
- Grinding-machine. A. Scrivenor. No. 1,314,154; Aug. 26; v. 265; p. 519.
- Grinding-machine. W. G. Stevenson. No. 1,316,860; Sept. 23; v. 266; p. 511.
- Grinding-machine. C. E. Van Norman. No. 1,303,744; May 13; v. 262; p. 264.
- Grinding machine and method. R. B. Jones. No. 1,290,224; Jan. 7; v. 258; p. 51.
- Grinding machine, Article-. W. E. Bock. No. 1,310,386; July 15; v. 264; p. 503.
- Grinding-machine bearing-head. F. A. Brassell. No. 1,298,448; Mar. 25; v. 260; p. 668.
- Grinding machine, Cylinder-. A. B. Combs and F. A. Bullington. No. 1,308,166; July 1; v. 264; p. 29.
- Grinding machine, Disk-. W. A. Lorenz. No. 1,291,572; Jan. 14; v. 258; p. 394.
- Grinding-machine, Double-head. C. H. Norton. No. 1,304,799; May 27; v. 262; p. 539.
- Grinding machine, Edge-. A. H. La Fortune. No. 1,324,454; Dec. 9; v. 269; p. 278.
- Grinding-machine for sickle-bars. E. W. Wells. No. 1,306,983; June 17; v. 263; p. 391.
- Grinding machine, Head-. W. E. Bock. No. 1,319,921; Oct. 28; v. 267; p. 540.
- Grinding-machine, High-speed. J. B. Wiard. No. 1,304,229; May 20; v. 262; p. 391.
- Grinding machine, Knife-. A. B. Fowler. No. 1,318,441; Oct. 14; v. 267; p. 210.
- Grinding machine, Knife-. F. H. Lindsay. No. 1,296,979; Mar. 11; v. 260; p. 299.
- Grinding machine, Meat-. D. J. Itaya. No. 1,310,572; July 22; v. 264; p. 568.
- Grinding machine, Metal-. W. L. Bryant. No. 1,290,896; Jan. 14; v. 258; p. 238.
- Grinding machine, Metal-. J. G. Hobson. No. 1,320,859; Nov. 4; v. 268; p. 94.
- Grinding-machine, Portable. F. J. Decker. No. 1,316,942; Sept. 23; v. 266; p. 527.
- Grinding machine, Quill-. G. A. Johnson. No. 1,319,089; Oct. 21; v. 267; p. 359.
- Grinding machine, Track-. F. J. Venning. No. 1,305,954; June 3; v. 263; p. 138.
- Grinding machine, Universal tool-. W. J. Rennie. No. 1,326,423; Dec. 30; v. 269; p. 760.
- Grinding-machines, Means for automatically truing the grinding-disks of circular. A. V. Rundqvist. No. 1,294,541; Feb. 18; v. 259; p. 431.
- Grinding-machines, Radius and contour cutting attachment for. A. Zeidler. No. 1,301,350; Apr. 22; v. 261; p. 691.
- Grinding-mill. J. A. Bair. No. 1,301,637; Apr. 22; v. 261; p. 743.
- Grinding-mill. J. S. Fasting. No. 1,295,288; Feb. 25; v. 259; p. 626.
- Grinding-mill. J. S. Fasting. No. 1,295,291; Feb. 25; v. 259; p. 627.
- Grinding-mill. J. W. Garrow. No. 1,295,726; Feb. 25; v. 259; p. 728.
- Grinding-mill. J. K. Griffith. No. 1,295,482; Feb. 25; v. 259; p. 671.
- Grinding-mill. C. Morgan. No. 1,306,610; June 10; v. 263; p. 290.
- Grinding-mill. A. G. Newman. No. 1,311,614; July 29; v. 264; p. 795.
- Grinding-mill. A. L. Paschall. No. 1,310,031; July 15; v. 264; p. 438.
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- Grinding-mill, Cylinder. O. Soder. No. 1,304,819; May 27; v. 262; p. 543.

- Grinding-mills, Latch for. E. F. McCool. No. 1,321,540; Nov. 11; v. 268; p. 287.
- Grinding or crushing machine. D. J. G. Miller and R. A. Lloyd. No. 1,304,345; May 20; v. 262; p. 414.
- Grinding or like machines, Table-feed of. A. S. and R. Reid. No. 1,293,621; Feb. 4; v. 259; p. 150.
- Grinding or polishing machine. E. Cavicchi. No. 1,308,933; July 8; v. 264; p. 198.
- Grinding or polishing machine. E. Cavicchi. No. 1,312,235; Aug. 5; v. 265; p. 72.
- Grinding parabolic surfaces. K. E. T. Johnsson. No. 1,325,789; Dec. 23; v. 269; p. 605.
- Grinding-plate for feed-mills. G. J. Covert and B. A. Shaw. No. 1,306,468; June 10; v. 263; p. 265.
- Grinding the curved superficies of conical rollers, Process of and means for. B. W. Fjellman. No. 1,298,486; Mar. 25; v. 260; p. 676.
- Grinding thread-cutting tools, Tool-holder for. A. Lentatz. No. 1,308,430; July 1; v. 264; p. 77.
- Grinding-tool. W. L. Bryant. No. 1,290,897; Jan. 14; v. 258; p. 238.
- Grinding-tool. M. Mathy. No. 1,324,126; Dec. 9; v. 269; p. 214.
- Grinding tools, Machine for. S. A. Cogsdill. No. 1,323,452; Dec. 2; v. 269; p. 43.
- Grinding-wheel clamp. J. J. Grain. No. 1,300,161; Apr. 8; v. 261; p. 377.
- Grinding-wheel for dental purposes. W. W. Curtis. No. 1,303,541; May 13; v. 262; p. 227.
- Grinding-wheel guard. W. H. Sumbling. No. 1,294,565; Feb. 18; v. 259; p. 437.
- Grindstones, Apparatus for facing. F. J. Dugas. No. 1,308,895; July 8; v. 264; p. 191.
- Grip-chain coupling. G. D. Hagar. No. 1,295,738; Feb. 25; v. 259; p. 731.
- Grip device, Intermittent-. F. H. Hopkins. No. 1,312,787; Aug. 12; v. 265; p. 208.
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- Gripper. C. F. Bennion. No. 1,305,435; June 3; v. 263; p. 39.
- Gripper, Auxiliary. W. H. Smith. No. 1,320,345; Oct. 28; v. 267; p. 619.
- Gripper device. C. Henderson. No. 1,300,610; Apr. 15; v. 261; p. 498.
- Gripper-pad adjustment. C. Henderson and B. D. Stevens. No. 1,303,793; May 13; v. 262; p. 273.
- Gripper-pad adjustment. F. E. Rich. No. 1,296,008; Mar. 4; v. 260; p. 43.
- Gripping member for connectors, line-taps, &c. R. A. Becker. No. 1,323,147; Nov. 25; v. 268; p. 691.
- Gripping-nut. P. Mueller. No. 1,293,865; Feb. 11; v. 259; p. 238.
- Gripping-pin, Automatic. W. Klinge. No. 1,315,369; Sept. 9; v. 266; p. 174.
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- Ground-breaking device. D. Erter. No. 1,319,951; Oct. 28; v. 267; p. 546.
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- Guard. G. H. Day. No. 1,295,279; Feb. 25; v. 259; p. 624.
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- Guide and depth-regulator. F. B. Dow. No. 1,321,367; Nov. 11; v. 268; p. 254.
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- Guide-rail lubricator. W. P. Huggan. No. 1,321,041; Nov. 4; v. 268; p. 129.
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- Gun and knife, Combined. J. Tomanek. No. 1,290,807; Jan. 7; v. 258; p. 191.
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- Gun, Gas-operated. M. F. Smith. No. 1,291,690; Jan. 14; v. 258; p. 422.
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- Gun, Machine-. W. F. Mottin. No. 1,290,842; Jan. 7; v. 258; p. 199.
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- Gun magazines, Carrier for machine-. F. R. Batchelder. No. 1,311,869; Aug. 5; v. 265; p. 3.
- Gun, Magnetic. C. E. Morris. No. 1,324,204; Dec. 9; v. 269; p. 229.
- Gun, Mail-carrier-discharging. A. Lutschg. No. 1,307,783; June 24; v. 263; p. 570.
- Gun, Mechanical. B. L. Worthen. No. 1,291,691; Jan. 14; v. 258; p. 422.
- Gun-mount. P. L. E. del Fungo-Giera. No. 1,290,830; Jan. 7; v. 258; p. 196.
- Gun-mount. W. F. Mangels. No. 1,321,657; Nov. 11; v. 268; p. 309.
- Gun-mount. W. D. McKinney. No. 1,324,604; Dec. 9; v. 269; p. 306.
- Gun-mount. W. D. McKinney. No. 1,324,606; Dec. 9; v. 269; p. 307.
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- Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,302,525; May 6; v. 262; p. 9.
- Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,302,528; May 6; v. 262; p. 10.
- Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,318,056; Oct. 7; v. 267; p. 75.
- Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,324,800; Dec. 16; v. 269; p. 405.
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- Gun-mounting, Pedestal. H. W. Lee. No. 1,312,037; Aug. 5; v. 265; p. 35.
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- Gun, Multiple-barrel machine-. J. Luciani. No. 1,319,882; Oct. 28; v. 267; p. 533.
- Gun, Multiple-breech. T. J. Bradford. No. 1,298,447; Mar. 25; v. 260; p. 667.
- Gun, Noiseless, smokeless, rapid-fire. L. Steinberger. No. 1,316,397; Sept. 16; v. 266; p. 376.
- Gun, Pneumatic. N. Goodyear. No. 1,324,772; Dec. 9; v. 269; p. 338.
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- Gun-pointing and automatic gun-discharging mechanism, Combined. G. W. Hinton. No. 1,309,091; July 8; v. 264; p. 228.

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- Gun-powders, Manufacturing. J. Delpech. No. 1,316,360; Sept. 16; v. 266; p. 370.
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- Gun, Rapid-fire. C. R. Smith. No. 1,314,761; Sept. 2; v. 266; p. 54.
- Gun, Safety-. F. R. Stava. No. 1,294,186; Feb. 11; v. 259; p. 314.
- Gun-shield. F. J. and A. H. Miller. No. 1,320,888; Nov. 4; v. 268; p. 100.
- Gun-sight. C. A. Arthur. No. 1,324,290; Dec. 9; v. 269; p. 245.
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- Gun-sight. H. R. Frensdorf. No. 1,307,441; June 24; v. 263; p. 508.
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- Gun-sight. F. B. Magill. No. 1,313,549; Aug. 19; v. 265; p. 371.
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- Gun-sight. J. S. Wilson and W. E. Dalby. No. 1,303,440; May 13; v. 262; p. 208.
- Gun-sight and sighting. E. J. D. Newitt. No. 1,326,464; Dec. 30; v. 269; p. 768.
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- Hairpin. S. L. Myers. No. 1,321,322; Nov. 11; v. 268; p. 246.
- Hairpin. D. B. Sheffield. No. 1,319,671; Oct. 21; v. 267; p. 470.
- Hairpin. A. J. Smith. No. 1,313,750; Aug. 19; v. 265; p. 408.
- Hairpin-making machine. I. H. Sisson. No. 1,319,909; Oct. 28; v. 267; p. 538.
- Halides, Process of and apparatus for making. L. S. Abbott. No. 1,308,885; July 8; v. 264; p. 189.
- Halter. A. Veal. No. 1,325,061; Dec. 16; v. 269; p. 453.
- Halter-releasing device. H. Hansen. No. 1,309,034; July 8; v. 264; p. 218.
- Hame. J. B. Law. No. 1,293,129; Feb. 4; v. 259; p. 37.
- Hame attachment. G. Siegenthaler. No. 1,310,636; July 22; v. 264; p. 581.
- Hame-fastener. O. W. Carlson. No. 1,310,174; July 15; v. 264; p. 465.
- Hame-loop. G. Siegenthaler. No. 1,292,109; Jan. 21; v. 258; p. 558.
- Hame-loop, Adjustable. R. F. Johnson. No. 1,305,117; May 27; v. 262; p. 598.
- Hammer. G. W. Ansley. No. 1,318,826; Oct. 14; v. 267; p. 283.
- Hammer. M. Basta. No. 1,304,647; May 27; v. 262; p. 511.
- Hammer. N. Buras. No. 1,314,465; Aug. 26; v. 265; p. 579.
- Hammer. R. J. Clendenen. No. 1,314,247; Aug. 26; v. 265; p. 537.

- Hammer. J. C. Deagan. No. 1,291,777; Jan. 21; v. 258; p. 474.
- Hammer. S. Hamilton. No. 1,303,792; May 13; v. 262; p. 273.
- Hammer. F. Kuss. No. 1,301,715; Apr. 22; v. 261; p. 759.
- Hammer. J. J. Lefeber. No. 1,302,184; Apr. 29; v. 261; p. 879.
- Hammer. H. M. Sturgeon. No. 1,300,511; Apr. 15; v. 261; p. 478.
- Hammer. W. H. Swift. No. 1,302,878; May 6; v. 262; p. 76.
- Hammer and wrench. A. W. Carr. No. 1,309,180; July 8; v. 264; p. 244.
- Hammer attachment. W. H. Swift. No. 1,302,879; May 6; v. 262; p. 76.
- Hammer, Automatic. G. L. Kollock and R. P. Martin. No. 1,310,574; July 22; v. 264; p. 569.
- Hammer, Automatic. G. L. Kollock and R. P. Martin. No. 1,310,575; July 22; v. 264; p. 569.
- Hammer-drill mounting. W. A. Smith. No. 1,321,565; Nov. 11; v. 268; p. 292.
- Hammer, Drop-. A. Mort. No. 1,309,298; July 8; v. 264; p. 266.
- Hammer, Drop-. C. D. Rice. No. 1,324,925; Dec. 16; v. 269; p. 428.
- Hammer, Electromagnetically-controlled board drop-. A. Aldridge and H. Terhune. No. 1,311,942; Aug. 5; v. 265; p. 17.
- Hammer-fastener. W. A. Johns. No. 1,318,281; Oct. 7; v. 267; p. 119.
- Hammer guide-head, Power-. L. Mayer. No. 1,313,002; Aug. 12; v. 265; p. 250.
- Hammer holder, Pneumatic-. P. R. G. Phorson. No. 1,319,792; Oct. 28; v. 267; p. 516.
- Hammer, Jack-. S. Slack. No. 1,317,600; Sept. 30; v. 266; p. 689.
- Hammer, Pile-driver. P. H. Mackie. No. 1,307,590; June 24; v. 263; p. 535.
- Hammer, Power-. J. C. Cromwell. No. 1,318,359; Oct. 14; v. 267; p. 194.
- Hammer, Rotary. H. M. Plaisted. No. 1,301,316; Apr. 22; v. 261; p. 683.
- Hammer, Rotary pivoted. O. J. Williams. No. 1,317,769; Oct. 7; v. 267; p. 21.
- Hammer, Soft-nose. W. J. Packer. No. 1,298,382; Mar. 25; v. 260; p. 652.
- Hammer, Spring-. R. M. Johnston. No. 1,323,222; Nov. 25; v. 268; p. 706.
- Hammer-stand, Adjustable. A. J. Grenzig. No. 1,324,394; Dec. 9; v. 269; p. 266.
- Hammer, Treadle-. W. Blacker. No. 1,297,990; Mar. 25; v. 260; p. 570.
- Hammer, Trip-. A. Vincent. No. 1,297,940; Mar. 18; v. 260; p. 534.
- Hammers, &c., Stay-bolt-heading attachment for pneumatic. W. H. Diffendall. (Reissue.) No. 1,450,606; Mar. 11; v. 260; p. 371.
- Hammock. H. Mintz. No. 1,308,096; July 1; v. 264; p. 17.
- Hammock-hook. R. S. Morgan. No. 1,322,328; Nov. 18; v. 268; p. 485.
- Hammock-support. J. Dittrick. No. 1,320,381; Nov. 4; v. 268; p. 5.
- Hand and harness therefor, Artificial. I. L. Bosch. No. 1,318,260; Oct. 7; v. 267; p. 115.
- Hand, Artificial. W. Baehr. No. 1,323,671; Dec. 2; v. 269; p. 84.
- Hand, Artificial. B. Bowler. No. 1,299,543; Apr. 8; v. 261; p. 239.
- Hand, Artificial. B. Bowler. No. 1,301,367; Apr. 22; v. 261; p. 694.
- Hand, Artificial. F. C. Henning. No. 1,298,502; Mar. 25; v. 260; p. 680.
- Hand, Artificial. H. J. Lacaire. No. 1,322,027; Nov. 18; v. 268; p. 428.
- Hand, Artificial. H. J. Mangers. No. 1,321,065; Nov. 4; v. 268; p. 133.
- Hand, Artificial. L. Maublane. No. 1,299,756; Apr. 8; v. 261; p. 288.
- Hand, Artificial. A. Pringle. No. 1,324,564; Dec. 9; v. 269; p. 299.
- Hand, Artificial. G. Ralston and E. Blankenship. No. 1,304,201; May 20; v. 262; p. 385.
- Hand, Artificial. E. Robinson. No. 1,304,099; May 20; v. 262; p. 367.
- Hand, Artificial. K. F. Rohrmann. No. 1,305,169; May 27; v. 262; p. 608.
- Hand attachment, Artificial-. A. E. Laxton. No. 1,307,866; June 24; v. 263; p. 586.
- Hand-bag. S. Anthony. No. 1,319,134; Oct. 21; v. 267; p. 367.
- Hand-bag. N. Muslin. No. 1,301,157; Apr. 22; v. 261; p. 651.
- Hand-ball. J. Abrahamson. No. 1,299,092; Apr. 1; v. 261; p. 109.
- Hand-brake. C. E. Dath. No. 1,300,351; Apr. 15; v. 261; p. 444.
- Hand-brake. J. F. O'Connor. No. 1,300,464; Apr. 15; v. 261; p. 467.
- Hand-brake. J. F. O'Connor. No. 1,300,468; Apr. 15; v. 261; p. 468.
- Hand-brake. J. F. O'Connor. No. 1,300,474; Apr. 15; v. 261; p. 470.
- Hand-brake. J. F. O'Connor. No. 1,300,476; Apr. 15; v. 261; p. 470.
- Hand-brake. J. F. O'Connor. No. 1,300,478; Apr. 15; v. 261; p. 471.
- Hand-brake. K. Williams. No. 1,300,317; Apr. 15; v. 261; p. 437.
- Hand-brake-operating mechanism. W. A. Geiger. No. 1,300,375; Apr. 15; v. 261; p. 449.
- Hand-guard. E. E. Bartram. No. 1,298,158; Mar. 25; v. 260; p. 606.
- Hand-hole plate, Boiler. J. C. Sherry. No. 1,304,391; May 20; v. 262; p. 423.
- Hand-operated nebulizer. F. C. Dormont. No. 1,294,246; Feb. 11; v. 259; p. 328.
- Hand-rake, Adjustable. F. W. Rhines. No. 1,309,340; July 8; v. 264; p. 274.
- Hand-signal, Light-reflecting. G. B. Mullen. No. 1,294,938; Feb. 18; v. 259; p. 524.
- Hand-tool. W. A. Bernard. No. 1,300,330; Apr. 15; v. 261; p. 439.
- Hand-transit. J. E. Dick. No. 1,308,050; July 1; v. 264; p. 8.
- Hand-wheel. H. W. Dover. No. 1,294,885; Feb. 18; v. 259; p. 512.
- Handbag. A. J. Schoenborn. No. 1,316,334; Sept. 16; v. 266; p. 365.
- Handbag-lock. W. T. Goldsmith. No. 1,326,723; Dec. 30; v. 269; p. 817.
- Handkerchief, Puff-holding. A. Potvin. No. 1,295,791; Feb. 25; v. 259; p. 743.
- Handkerchief-webs, Machine for nicking. J. A. Thomas. No. 1,321,161; Nov. 11; v. 268; p. 215.
- Handle. See—
- Accounting-machine handle.
  - Agricultural-tool handle.
  - Automobile-door handle.
  - Basket-handle.
  - Boiler-handle.
  - Bottle-handle.
  - Brake-handle.
  - Burial-casket handle.
  - Carrying-bag handle.
  - Casket-handle.
  - Casket-box handle.
  - Coffin-handle.
  - Cooking-utensil handle.
  - Crutch-handle.
  - D-handle.
  - Door-handle.
  - Detachable handle.
  - Fishing-rod handle.
  - Insulated handle.
  - Jar-cap handle.
  - Lifting-jack handle.
  - Mop and brush handle.
  - Oar-handle.
  - Parcel-handle.
  - Razor-blade-honing handle.
  - Razor detachable collapsible handle.
  - Sad-iron handle.
  - Satchel-handle.
  - Saw-handle.
  - Screen-handle.
  - Shovel-handle.
  - Spoon-handle.
  - Sunken handle.
  - Switch-handle.
  - Tool-handle.
  - Tool and implement handle.
  - Valve-handle.
  - Wrench-handle.
- Handle. D. M. McDonald. No. 1,315,376; Sept. 9; v. 266; p. 175.
- Handle. I. J. Owen and B. J. Bouwmeester. No. 1,309,775; July 15; v. 264; p. 392.
- Handle. J. E. Pittman. No. 1,294,304; Feb. 11; v. 259; p. 341.
- Handles, &c., to utensils, Means for attaching. W. Luttinghaus. No. 1,317,715; Oct. 7; v. 267; p. 11.
- Handling and transporting device. A. W. Jones, J. Bryden, and A. J. H. Mowbray. No. 1,319,872; Oct. 28; v. 267; p. 532.
- Handling device. J. A. Chambers. No. 1,291,404; Jan. 14; v. 258; p. 356.
- Handling machine, Earth-. C. E. and W. G. Werts. No. 1,296,347; Mar. 4; v. 260; p. 120.
- Handling machine, Material-. J. C. French. No. 1,317,696; Oct. 7; v. 267; p. 7.
- Handling packages, Machine for. E. L. Bracy. No. 1,290,888; Jan. 14; v. 258; p. 236.
- Handsaws, Dust-blowing attachment for. J. P. Johnson. No. 1,318,565; Oct. 14; v. 267; p. 234.
- Handsaw, Power-. E. C. Buell and H. L. Steenrod. No. 1,324,032; Dec. 9; v. 269; p. 196.
- Handsaws, Plane attachment for. H. Olson. No. 1,324,922; Dec. 16; v. 269; p. 427.
- Handy measure. S. R. Menssen. No. 1,317,030; Sept. 23; v. 266; p. 543.
- Hangar. W. M. Luebbert. No. 1,313,547; Aug. 19; v. 265; p. 371.



## Alphabetical list of inventions—Continued.

## Hanger: See—

Adjustable hanger. Laundry-hanger.  
 Bed-spring hanger. Light-hanger.  
 Bowl-hanger. Mop-hanger.  
 Brake-hanger. Paint-bucket hanger.  
 Brake-beam hanger. Picture-hanger.  
 Brake-beam safety-hanger. Pipe-hanger.  
 Brake-rod safety bracket-hanger. Radiator-hanger.  
 Brush-hanger. Railway-brake hanger.  
 Cable-hanger. Rod-hanger.  
 Cake-hanger. Scabbard-hanger.  
 Car-door hanger. Seed-corn hanger.  
 Clothes-hanger. Shade-hanger.  
 Coat-hanger. Shade and curtain hanger.  
 Coat and trousers hanger. Shade-roller hanger.  
 Coat, hat, and umbrella hanger. Shaft-hanger.  
 Shoe-hanger.  
 Spring-hanger.  
 Track-hanger.  
 Cotton-sack hanger. Trolley-hanger.  
 Curtain-hanger. Trolley-wire hanger.  
 Curtain-pole hanger. Trousers-hanger.  
 Door-hanger. Tube-hanger.  
 Eaves-trough hanger. Window blind and curtain hanger.  
 Film-hanger. Wire-hanger.  
 Garment-hanger.  
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Hanger. M. G. Brown. No. 1,323,957; Dec. 2; v. 269; p. 138.  
 Hanger. J. A. Butrick. No. 1,320,445; Nov. 4; v. 268; p. 17.  
 Hanger. C. G. Hanson. No. 1,302,793; May 6; v. 262; p. 59.  
 Hanger. J. McConnal. No. 1,292,956; Jan. 28; v. 258; p. 781.  
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 Hardening-machine. C. C. Jackman and R. S. Squire. No. 1,290,949; Apr. 8; v. 261; p. 331.  
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 Hardness-tester. H. M. and S. P. Rockwell. No. 1,294,171; Feb. 11; v. 259; p. 310.  
 Harmonic analyzer. L. W. Chubb. No. 1,323,349; Dec. 2; v. 269; p. 24.  
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 Harness. Breeching layer-loop for. J. Cherry. No. 1,321,718; Nov. 11; v. 268; p. 321.  
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 Harness. Safety-. F. H. Barnhart. No. 1,300,914; Apr. 15; v. 261; p. 563.  
 Harness-support. J. G. Shodron. No. 1,297,021; Nov. 11; v. 260; p. 308.  
 Harness-terret. K. L. Crou. No. 1,303,258; May 13; v. 262; p. 177.  
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 Harrow. N. L. Beck. No. 1,300,554; Apr. 15; v. 261; p. 487.  
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 Harrow. L. E. Oakes. No. 1,313,008; Aug. 12; v. 265; p. 251.  
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 Harrow. C. S. Sharp. No. 1,310,582; July 22; v. 264; p. 570.  
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 Harrow draft-bar. P. L. Donovan. No. 1,299,561; Apr. 8; v. 261; p. 243.  
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 Harrow, Riding-. L. M. Marquart. No. 1,323,481; Dec. 2; v. 269; p. 49.  
 Harrow riding attachment. E. B. Hyde. No. 1,295,990; Mar. 4; v. 260; p. 39.  
 Harrow, Rotary. C. L. Delay. No. 1,296,777; Mar. 11; v. 260; p. 252.  
 Harrow, Spring-tooth. J. J. Kovar. No. 1,298,735; Apr. 1; v. 261; p. 27.  
 Harrow, Threshing-. A. C. Finseth. No. 1,315,918; Sept. 9; v. 266; p. 274.  
 Harrows, Draw-bar for. W. O. Long. No. 1,314,679; Sept. 2; v. 266; p. 39.  
 Harrows, Draw-bar for. W. O. Long. No. 1,314,680; Sept. 2; v. 266; p. 40.  
 Harrows, End hitch for. J. C. Barrett. No. 1,318,829; Oct. 14; v. 267; p. 284.  
 Harrows, Sharpener for disk. L. Haines. No. 1,303,057; May 6; v. 262; p. 110.  
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 Harvester. J. Olson. No. 1,322,334; Nov. 18; v. 268; p. 486.  
 Harvester. C. R. Raney. No. 1,319,488; Oct. 21; v. 267; p. 436.  
 Harvester and cleaner, Seed. J. Herr. No. 1,297,349; Mar. 18; v. 260; p. 408.  
 Harvester, Bean-. W. L. Knight. No. 1,297,867; Mar. 18; v. 260; p. 518.  
 Harvester, Bean-. R. and C. D. Munger. No. 1,295,822; Feb. 25; v. 259; p. 750.  
 Harvester, Bean-. H. C. Tolbert. No. 1,306,204; June 10; v. 263; p. 213.  
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 Harvester, Beet-. C. P. Doolan. No. 1,293,632; Feb. 4; v. 259; p. 153.  
 Harvester, Beet-. G. E. Faucher. No. 1,300,362; Apr. 15; v. 261; p. 446.  
 Harvester, Beet-. M. A. Green. No. 1,300,955; Apr. 15; v. 261; p. 572.  
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 Harvester, Beet-. A. A. Mathison. No. 1,297,298; Mar. 11; v. 260; p. 369.  
 Harvester, Beet-. R. L. Merchant. No. 1,315,381; Sept. 9; v. 266; p. 176.  
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 Harvester, Beet-. F. Pocock. No. 1,295,591; Feb. 25; v. 259; p. 697.  
 Harvester, Beet-. F. Prior. No. 1,301,006; Apr. 15; v. 261; p. 583.  
 Harvester, Beet-. E. A. Rasey. No. 1,326,422; Dec. 30; v. 269; p. 760.  
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 Harvester, Beet-. F. J. Weston. No. 1,302,259; Apr. 29; v. 261; p. 893.  
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- Harvester, Corn-. W. S. Baird. No. 1,295,254; Feb. 25; v. 259; p. 619.
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- Harvester, Corn-. J. A. Gaugh. No. 1,318,272; Oct. 7; v. 267; p. 118.
- Harvester, Corn-. W. Grosshans. No. 1,316,712; Sept. 23; v. 266; p. 485.
- Harvester, Corn-. C. A. Hagadone. No. 1,303,298; May 13; v. 262; p. 183.
- Harvester, Corn-. C. F. Martin. No. 1,324,683; Dec. 9; v. 269; p. 321.
- Harvester, Corn-. S. O. Paxton. No. 1,310,133; July 15; v. 264; p. 457.
- Harvester, Corn-. J. E. Reece. No. 1,320,917; Nov. 4; v. 268; p. 105.
- Harvester, Corn-. J. A. St. John. No. 1,306,317; June 10; v. 263; p. 236.
- Harvester, Corn-. J. Venhuizen. No. 1,293,583; Feb. 4; v. 259; p. 141.
- Harvester, Cotton-. F. N. McCorkle. No. 1,291,652; Jan. 14; v. 258; p. 414.
- Harvester, Cranberry-. P. W. Dilley. No. 1,302,531; May 6; v. 262; p. 10.
- Harvester, Ensilage-. L. A. Sproul. No. 1,308,818; July 8; v. 264; p. 176.
- Harvester, Flax-. A. O. Hanson. No. 1,311,347; July 29; v. 264; p. 745.
- Harvester, Grain-. J. Malcom. No. 1,301,289; Apr. 22; v. 261; p. 678.
- Harvester, Grain-. H. C. Wells. No. 1,295,651; Feb. 25; v. 259; p. 711.
- Harvester, Grasshopper-. W. D. Kemp. No. 1,325,475; Dec. 16; v. 269; p. 529.
- Harvester, Insect-. S. H. Pierce. No. 1,292,871; Jan. 28; v. 258; p. 761.
- Harvester, Pea-. F. V. Scott and J. D. Haskett. No. 1,303,120; May 6; v. 262; p. 122.
- Harvester, Peanut-. W. L. Beard. No. 1,313,053; Aug. 12; v. 265; p. 260.
- Harvester, Peanut-. G. L. Newton. No. 1,293,170; Feb. 4; v. 259; p. 45.
- Harvester, Peanut-. H. L. Percivall. No. 1,321,326; Nov. 11; v. 268; p. 247.
- Harvester-platform-adjusting device-. O. Czarán. No. 1,299,686; Apr. 8; v. 261; p. 272.
- Harvester, Potato-. G. W. Bruce. No. 1,296,475; Mar. 4; v. 260; p. 147.
- Harvester, Potato-. G. O. Eberhardt. No. 1,303,180; May 6; v. 262; p. 134.
- Harvester, Potato-. E. P. Kendall. No. 1,314,270; Aug. 26; v. 265; p. 542.
- Harvester-reel. E. C. Sellers. No. 1,301,512; Apr. 22; v. 261; p. 720.
- Harvester-reel. W. N. Terry. No. 1,290,407; Jan. 7; v. 258; p. 94.
- Harvester-reel and actuating mechanism therefor. O. Czarán. No. 1,299,685; Apr. 8; v. 261; p. 272.
- Harvester-reel-tensioning clamp. J. Reiniger. No. 1,307,879; June 24; v. 263; p. 588.
- Harvester, Standing-grain. C. C. Baldwin. No. 1,290,484; Jan. 7; v. 258; p. 114.
- Harvester, Stump-. E. A. McKoy and G. D. Moore. No. 1,313,708; Aug. 19; v. 265; p. 400.
- Harvester, Thresher-. B. R. Benjamin. No. 1,301,361; Apr. 22; v. 261; p. 693.
- Harvester threshers or strippers, Bagging mechanism for. B. R. Benjamin. No. 1,301,362; Apr. 22; v. 261; p. 693.
- Harvester, Tobacco-. E. E. Motter and F. G. Davis. No. 1,323,404; Dec. 2; v. 269; p. 34.
- Harvester, Tractor-. S. G. Miller and D. O. De Witt. No. 1,298,244; Mar. 25; v. 260; p. 624.
- Harvesters and other agricultural machines, Attachment for. G. W. Jory. No. 1,309,689; July 15; v. 264; p. 377.
- Harvesters, Folding divider for. W. H. Crane. No. 1,302,768; May 6; v. 262; p. 54.
- Harvesters, Heading attachment for corn-. C. E. Tucker. No. 1,294,323; Feb. 11; v. 259; p. 346.
- Harvesting and husking machine, Corn. J. Carbó. No. 1,315,465; Sept. 9; v. 266; p. 191.
- Harvesting and threshing machine, Combined. H. S. Cassel. No. 1,321,979; Nov. 18; v. 268; p. 420.
- Harvesting machine, Beet-. J. Devey. No. 1,299,825; Apr. 8; v. 261; p. 304.
- Harvesting machine, Beet-. O. Hansen. No. 1,319,069; Oct. 21; v. 267; p. 355.
- Harvesting machine, Beet-. G. B. and W. A. Hayes. No. 1,294,801; Feb. 18; v. 259; p. 492.
- Harvesting machine, Beet-. K. W. Liebau. No. 1,291,567; Jan. 14; v. 258; p. 393.
- Harvesting machine, Beet-. T. R. McKnight and J. M. Bailey. No. 1,295,340; Feb. 25; v. 259; p. 638.
- Harvesting machine, Beet-. C. W. Rogers. No. 1,307,640; June 24; v. 263; p. 544.
- Harvesting machine, Cane-. A. B. Knotts. No. 1,295,331; Feb. 25; v. 259; p. 636.
- Harvesting machine, Corn-. C. C. Rinchardt. No. 1,308,643; July 1; v. 264; p. 116.
- Harvesting machine, Grass-. R. W. Cureton. No. 1,311,382; July 29; v. 264; p. 752.
- Harvesting-machine tractor connection. H. S. Dickinson. No. 1,302,325; Apr. 29; v. 261; p. 906.
- Harvesting machines, Snapping-roll for corn-. W. S. Baird. No. 1,295,255; Feb. 25; v. 259; p. 619.
- Harvesting-machines, Transport-frame specially applicable to. F. D. Fogarty. No. 1,293,070; Feb. 4; v. 259; p. 23.
- Harvesting machinery. B. R. Benjamin. No. 1,325,614; Dec. 23; v. 269; p. 673.
- Harvesting machinery, Grain-. E. W. Burgess. No. 1,312,304; Aug. 5; v. 265; p. 84.
- Harvesting stumps, Method of. E. A. McKoy and G. D. Moore. No. 1,313,709; Aug. 19; v. 265; p. 401.
- Hasp. B. vom Eigen. No. 1,296,343; Mar. 4; v. 260; p. 119.
- Hasp. B. S. Radcliff. No. 1,318,800; Oct. 14; v. 267; p. 278.
- Hasp and staple, Combination latch. W. N. and C. J. Tenny. No. 1,312,931; Aug. 12; v. 265; p. 236.
- Hasp attachment. A. E. Wegener. No. 1,319,498; Oct. 21; v. 267; p. 438.
- Hasp, Hinge-. A. Schroeder. No. 1,309,748; July 15; v. 264; p. 387.
- Hasp-lock. C. L. Bell. No. 1,321,783; Nov. 11; v. 268; p. 333.
- Hasp-lock. J. V. Thompson. No. 1,315,883; Sept. 9; v. 266; p. 267.
- Hasp-lock, Automatic. J. R. Francis. No. 1,307,966; June 24; v. 263; p. 604.
- Hat. D. L. Davis. No. 1,304,268; May 20; v. 262; p. 399.
- Hat. V. O. Hinton. No. 1,303,796; May 13; v. 262; p. 274.
- Hat. O. E. Oetting. No. 1,321,544; Nov. 11; v. 268; p. 287.
- Hat. M. A. Phillips. No. 1,300,644; Apr. 15; v. 261; p. 505.
- Hat and clothes hook. D. Okamoto. No. 1,305,560; June 3; v. 263; p. 63.
- Hat and making same. V. Bovio. No. 1,303,246; May 13; v. 262; p. 175.
- Hat appliance. J. F. Allison. No. 1,306,989; June 17; v. 263; p. 393.
- Hat attachment. H. A. Rust. No. 1,324,412; Dec. 9; v. 269; p. 269.
- Hat, bag, and program holder. J. G. Home. No. 1,292,779; Jan. 28; v. 258; p. 739.
- Hat-box. C. R. Chenery. No. 1,297,442; Mar. 18; v. 260; p. 428.
- Hat-box, Folding. W. S. Phillips. No. 1,294,302; Feb. 11; v. 259; p. 340.
- Hat, coat, and cane holding device. H. Hanson. No. 1,308,670; July 1; v. 264; p. 121.
- Hat-covering. L. Henschel. No. 1,293,645; Feb. 4; v. 259; p. 156.
- Hat-crowns, Apparatus for shaping. L. Stevens. No. 1,316,813; Sept. 23; v. 266; p. 503.
- Hat-fastener. H. Moyes. No. 1,308,296; July 1; v. 264; p. 53.
- Hat-fastener. J. Stefaniuk. No. 1,292,528; Jan. 28; v. 258; p. 679.
- Hat-forming die. J. B. Olsen. No. 1,321,141; Nov. 11; v. 268; p. 211.
- Hat-holder. P. Tschannen. No. 1,290,810; Jan. 7; v. 258; p. 192.
- Hat identifying attachment or marker. B. B. De Masters. No. 1,315,473; Sept. 9; v. 266; p. 193.
- Hat-lining. G. W. Dyarman. No. 1,290,527; Jan. 7; v. 258; p. 124.
- Hat-lining. K. Kurtz. No. 1,316,797; Sept. 23; v. 266; p. 500.
- Hat-lining-inserting apparatus. L. Wolf and I. Ryback. No. 1,299,089; Apr. 1; v. 261; p. 109.
- Hat-linings, Inserting. I. Ryback and L. Wolf. No. 1,299,038; Apr. 1; v. 261; p. 97.
- Hat parts, Apparatus for molding and shaping. J. Toñás. No. 1,303,992; May 20; v. 262; p. 348.
- Hat-pin head. W. H. Mohr. No. 1,306,970; June 17; v. 263; p. 389.
- Hat-press. Magnetic-release. M. A. Schwartz. No. 1,315,338; Sept. 9; v. 266; p. 168.
- Hat-protector. L. W. Hackney. No. 1,305,357; June 3; v. 263; p. 24.
- Hat-rack. A. H. Knight. No. 1,294,916; Feb. 18; v. 259; p. 519.
- Hat-renovating machine. L. Flicker. No. 1,303,190; May 6; v. 262; p. 135.
- Hat-retaining device. W. R. Dales. No. 1,305,694; June 3; v. 263; p. 88.
- Hat-retaining device. W. R. Dales. No. 1,317,433; Sept. 30; v. 266; p. 656.
- Hat-shapes, Manufacturing. M. J. Gerber. No. 1,290,539; Jan. 7; v. 258; p. 127.
- Hat-shaping apparatus. V. Valente and A. Micheletti. No. 1,311,194; July 29; v. 264; p. 716.
- Hat shield or pad. W. J. Anderson. No. 1,325,684; Dec. 23; v. 269; p. 583.
- Hat sweat-band. S. Werner. No. 1,292,186; Jan. 21; v. 258; p. 577.
- Hats, &c., Fitting-band for. H. D. Curtis. No. 1,296,051; Mar. 4; v. 260; p. 54.



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- Hats, Manufacture of Panama and toyo. C. S. Katz. No. 1,315,605; Sept. 9; v. 266; p. 216.
- Hats, Treating wool. G. W. Bollman. No. 1,305,055; May 27; v. 262; p. 587.
- Hatband. A. M. Adams and M. W. Landau. No. 1,307,172; June 17; v. 263; p. 426.
- Hatband. M. Cohen. No. 1,297,103; Mar. 11; v. 260; p. 327.
- Hatpin, Safety-. Z. H. Dermitt. No. 1,325,836; Dec. 23; v. 269; p. 614.
- Hatch-cover. H. S. Moore. No. 1,295,561; Feb. 25; v. 269; p. 691.
- Hatchet, wedge, &c. S. O. Plehl. No. 1,321,143; Nov. 11; v. 268; p. 211.
- Hawser-conveyer. J. A. Browne. No. 1,295,847; Mar. 4; v. 260; p. 6.
- Hay and manure hook, Combination. H. and E. Mattson. No. 1,312,703; Aug. 12; v. 265; p. 191.
- Hay, Apparatus for curing. J. W. Simpson. No. 1,323,416; Dec. 2; v. 269; p. 36.
- Hay, Apparatus for curing, transporting, and stacking. E. J. Richardson. No. 1,307,754; June 24; v. 263; p. 565.
- Hay-balers, Plunger-operating attachment for. L. L. Lyons. No. 1,291,961; Jan. 21; v. 258; p. 522.
- Hay-carrier. H. J. and H. L. Ferris. No. 1,291,457; Jan. 14; v. 258; p. 368.
- Hay-cocking machine. W. F. Koch. No. 1,310,573; July 22; v. 264; p. 569.
- Hay-curing rack. J. A. McLaughlin. No. 1,301,145; Apr. 22; v. 261; p. 649.
- Hay-drying device. M. Makos. No. 1,322,256; Nov. 18; v. 268; p. 472.
- Hay-fork. L. Mattson. No. 1,317,882; Oct. 7; v. 267; p. 42.
- Hay gatherer and loader. C. Lechtenberg. No. 1,309,861; July 15; v. 264; p. 408.
- Hay, grain, and the like, Apparatus for curing. P. J. Nichols. No. 1,303,945; May 20; v. 262; p. 339.
- Hay-loader. G. S. Bergerud. No. 1,306,462; June 10; v. 263; p. 264.
- Hay-loader. C. R. Davis. No. 1,315,819; Sept. 9; v. 266; p. 254.
- Hay-loader. A. V. Hodgson. No. 1,310,187; July 15; v. 264; p. 467.
- Hay-loader. A. Kepler. No. 1,295,520; Feb. 25; v. 259; p. 681.
- Hay-loader. E. Mowry. No. 1,312,342; Aug. 5; v. 265; p. 90.
- Hay-loader. H. M. Neuhaus. No. 1,293,517; Feb. 4; v. 259; p. 127.
- Hay-loader. C. H. Pelton. No. 1,319,724; Oct. 28; v. 267; p. 503.
- Hay-loader. E. C. Smith. No. 1,319,930; Oct. 28; v. 267; p. 542.
- Hay-loader, Extension. R. Ensign. No. 1,303,644; May 13; v. 262; p. 245.
- Hay-press. C. H. Davis. No. 1,297,450; Mar. 18; v. 260; p. 429.
- Hay-press. S. T. Edmonson. No. 1,305,784; June 3; v. 263; p. 105.
- Hay-press. C. B. Hardman. No. 1,324,962; Dec. 16; v. 269; p. 434.
- Hay-press. C. L. Miller and L. J. Loffelmier. No. 1,325,306; Dec. 16; v. 269; p. 499.
- Hay-press. J. F. White. No. 1,296,889; Mar. 11; v. 260; p. 278.
- Hay-presses, Hydraulic motor for. R. Houk. No. 1,290,203; Jan. 7; v. 258; p. 46.
- Hay-puller. R. L. Webster. No. 1,291,308; Jan. 14; v. 258; p. 332.
- Hay-rack bed-piece. A. B. Anderson and J. L. Peterson. No. 1,307,841; June 24; v. 263; p. 581.
- Hay-rake. W. R. Butner. No. 1,294,233; Feb. 11; v. 259; p. 325.
- Hay-rake. E. Mowry. No. 1,294,822; Feb. 18; v. 259; p. 497.
- Hay-shocker. J. H. Moser. No. 1,316,630; Sept. 23; v. 266; p. 469.
- Hay-shocker. R. Newcomb. No. 1,318,296; Oct. 7; v. 267; p. 122.
- Hay-sling. H. F. Kubly. No. 1,319,291; Oct. 21; v. 267; p. 398.
- Hay-sling. C. L. Thon. No. 1,292,154; Jan. 21; v. 258; p. 569.
- Hay-spreaders for barns and hay-sheds. A. A. De Marce. No. 1,321,991; Nov. 18; v. 268; p. 422.
- Hay-stacker. J. L. Dahlen. No. 1,324,799; Dec. 16; v. 269; p. 405.
- Hay-stacker. I. S. Leggitt. No. 1,311,451; July 29; v. 264; p. 765.
- Hay-stacker. J. W. Messenger. No. 1,322,040; Nov. 18; v. 268; p. 431.
- Hay-stackers, Retainer for. C. O. Ewing. No. 1,322,773; Nov. 25; v. 268; p. 621.
- Hay stacking and curing device. W. H. Mayberry. No. 1,305,823; June 3; v. 263; p. 112.
- Hay-stacking rack. F. M. Bradley. No. 1,295,265; Feb. 25; v. 259; p. 621.
- Hay-treating device, Tractor-operated. E. W. Burgess. No. 1,291,392; Jan. 14; v. 258; p. 353.
- Hay-unloader. C. H. Fletcher. No. 1,291,462; Jan. 14; v. 258; p. 369.
- Haycocking-machine. A. Savignac. No. 1,290,364; Jan. 7; v. 258; p. 84.
- Head and flood light. P. S. Bailey. No. 1,326,014; Dec. 23; v. 269; p. 647.
- Head, Animal-. B. Cohen and M. Lichtenstein. No. 1,324,730; Dec. 9; v. 269; p. 330.
- Head-block. J. Rossini. No. 1,321,271; Dec. 9; v. 269; p. 242.
- Head, Capping-. A. R. Bethel. No. 1,305,765; June 3; v. 263; p. 101.
- Head-carried light. F. F. Ballard. No. 1,294,752; Feb. 18; v. 259; p. 481.
- Head-covering for the protection of workmen's skulls. Safety. R. A. Falconer and F. Mendizza. No. 1,309,882; July 15; v. 264; p. 412.
- Head, Dividing-. W. Taylor. No. 1,323,658; Dec. 2; v. 269; p. 81.
- Head or tall light for automobiles. I. N. Heartsill. No. 1,305,282; June 3; v. 263; p. 10.
- Head-rest. J. McCrillis. No. 1,298,235; Mar. 25; v. 260; p. 622.
- Headed articles, Making. R. L. Ellery. No. 1,290,529; Jan. 7; v. 258; p. 125.
- Header. J. A. Wheeler. No. 1,297,950; Mar. 18; v. 260; p. 536.
- Header attachment. S. S. and E. F. Thomas. No. 1,323,502; Dec. 2; v. 269; p. 63.
- Header-barge. J. Thies. No. 1,293,982; Feb. 11; v. 259; p. 265.
- Hender, Soot-blower. W. F. Sellers. No. 1,304,609; May 27; v. 262; p. 503.
- Heading device. A. S. Greene. No. 1,294,091; Feb. 11; v. 259; p. 291.
- Heading-machine. R. L. Wilcox. No. 1,297,429; Mar. 18; v. 260; p. 425.
- Heading-machine clamping device. C. F. Stewart and E. N. Dickerson. No. 1,297,927; Mar. 18; v. 260; p. 531.
- Heading-machine stock cutting and transferring mechanism. C. T. Brennan. No. 1,299,115; Apr. 1; v. 261; p. 114.
- Headlight. H. W. Brown. No. 1,303,766; May 13; v. 262; p. 268.
- Headlight. A. Fast. No. 1,326,856; Dec. 30; v. 269; p. 842.
- Headlight. O. E. Hunt. No. 1,321,827; Nov. 18; v. 268; p. 392.
- Headlight. R. H. Kaiser. No. 1,303,328; May 13; v. 262; p. 188.
- Headlight. C. D. Kline. No. 1,295,905; Mar. 4; v. 260; p. 19.
- Headlight. L. Lohnes. No. 1,309,644; July 15; v. 264; p. 368.
- Headlight. W. J. Norris. No. 1,308,858; July 8; v. 264; p. 184.
- Headlight. A. H. Pfund. No. 1,299,219; Apr. 1; v. 261; p. 137.
- Headlight. O. Winston. No. 1,312,715; Aug. 12; v. 265; p. 193.
- Headlight. O. Winston. No. 1,314,034; Aug. 26; v. 265; p. 496.
- Headlight. O. Winston. No. 1,319,822; Oct. 28; v. 267; p. 522.
- Headlight. O. Winston. No. 1,319,823; Oct. 28; v. 267; p. 522.
- Headlight. O. Winston. No. 1,319,824; Oct. 28; v. 267; p. 522.
- Headlight. W. G. Wood. No. 1,324,288; Dec. 9; v. 269; p. 245.
- Headlight-adjuster. O. M. Otte. No. 1,300,860; Apr. 15; v. 261; p. 551.
- Headlight attachment, Dirigible-. E. H. McClure. No. 1,318,504; Oct. 14; v. 267; p. 222.
- Headlight, Automobile-. E. F. Düllmann. No. 1,302,017; Apr. 29; v. 261; p. 848.
- Headlight, Automobile-. W. B. Fassbinder. No. 1,293,065; Feb. 4; v. 259; p. 22.
- Headlight, Automobile-. W. H. Fillman. No. 1,318,440; Oct. 14; v. 267; p. 210.
- Headlight, Automobile-. A. S. Halstead. No. 1,320,546; Nov. 4; v. 268; p. 36.
- Headlight, Automobile-. W. M. Horton. No. 1,321,444; Nov. 11; v. 268; p. 270.
- Headlight, Automobile-. W. M. Horton. No. 1,321,445; Nov. 11; v. 268; p. 270.
- Headlight, Automobile-. C. F. Macdonald. No. 1,315,563; Sept. 9; v. 266; p. 208.
- Headlight, Automobile-. C. O. Paul and E. Elsey. No. 1,290,650; Jan. 7; v. 258; p. 154.
- Headlight, Automobile-. C. A. Sandstedt. No. 1,307,758; June 24; v. 263; p. 566.
- Headlight, Automobile-. E. M. Seliga. No. 1,312,054; Aug. 5; v. 265; p. 38.
- Headlight, Automobile-. W. H. Velton. No. 1,319,815; Oct. 28; v. 267; p. 520.
- Headlight, Automobile dirigible. L. L. Partain. No. 1,314,537; Sept. 2; v. 266; p. 11.
- Headlight, Automobile dirigible. O. A. Proksch. No. 1,292,370; Jan. 21; v. 258; p. 620.

- Headlight, Automobile dirigible. L. Rothfuchs. No. 1,297,913; Mar. 18; v. 260; p. 528.
- Headlight-carrying means for automobiles. A. Balog. No. 1,320,964; Nov. 4; v. 268; p. 114.
- Headlight construction. A. L. Primeau. No. 1,316,802; Sept. 23; v. 266; p. 501.
- Headlight construction. Dirigible. W. Summers. No. 1,296,568; Mar. 4; v. 260; p. 168.
- Headlight control, Electric. C. L. De Martin. No. 1,314,639; Sept. 2; v. 266; p. 31.
- Headlight control mechanism. J. E. Dempsey. No. 1,310,691; July 22; v. 264; p. 590.
- Headlight-control switch for motor-vehicles. O. P. Liebreich. No. 1,316,372; Sept. 16; v. 266; p. 372.
- Headlight-cover glass. W. Churchill. No. 1,312,950; Aug. 12; v. 265; p. 239.
- Headlight-dimmer. M. Crawford. No. 1,311,951; Aug. 5; v. 265; p. 18.
- Headlight-dimmer. B. L. Rosenbloom. No. 1,292,074; Jan. 21; v. 258; p. 549.
- Headlight-dimmer. J. G. Shaw. No. 1,324,625; Dec. 9; v. 269; p. 311.
- Headlight, Dirigible. G. W. Beach and C. Von Culin. No. 1,290,051; Jan. 7; v. 258; p. 9.
- Headlight, Dirigible. C. O. Blake. No. 1,303,017; May 6; v. 262; p. 103.
- Headlight, Dirigible. A. A. Borsse and G. Pirc. No. 1,296,261; Mar. 4; v. 260; p. 101.
- Headlight, Dirigible. A. and W. A. Chalmers. No. 1,299,298; Apr. 1; v. 261; p. 155.
- Headlight, Dirigible. G. W. J. Crabb. No. 1,318,973; Oct. 14; v. 267; p. 312.
- Headlight, Dirigible. E. M. Crumpton. No. 1,290,918; Jan. 14; v. 258; p. 244.
- Headlight, Dirigible. J. F. Ellmauerer. No. 1,298,314; Mar. 25; v. 260; p. 639.
- Headlight, Dirigible. R. de Filippis. No. 1,324,655; Dec. 9; v. 269; p. 316.
- Headlight, Dirigible. J. A. Fleming. No. 1,326,587; Dec. 30; v. 269; p. 792.
- Headlight, Dirigible. J. Glennon. No. 1,300,720; Apr. 15; v. 261; p. 522.
- Headlight, Dirigible. E. M. Gruel. No. 1,326,052; Dec. 23; v. 269; p. 654.
- Headlight, Dirigible. J. H. de Hart. No. 1,307,970; June 24; v. 263; p. 605.
- Headlight, Dirigible. R. and J. Kissinger. No. 1,312,736; Aug. 12; v. 265; p. 197.
- Headlight, Dirigible. W. H. Landis. No. 1,294,344; Feb. 11; v. 259; p. 850.
- Headlight, Dirigible. F. Lavolette. No. 1,312,914; Aug. 12; v. 265; p. 232.
- Headlight, Dirigible. W. L. Loranger. No. 1,300,426; Apr. 15; v. 261; p. 459.
- Headlight, Dirigible. C. E. Matteson and C. W. Bailey. No. 1,300,753; Apr. 15; v. 261; p. 528.
- Headlight, Dirigible. A. Mellinger. No. 1,318,896; Oct. 14; v. 267; p. 297.
- Headlight, Dirigible. T. Padgett. No. 1,311,290; July 29; v. 264; p. 734.
- Headlight, Dirigible. C. M. Se Cor. No. 1,314,906; Sept. 2; v. 266; p. 80.
- Headlight, Dirigible. H. B. Simpson and D. Hood. No. 1,324,852; Dec. 16; v. 269; p. 414.
- Headlight, Dirigible. J. F. Spencer. No. 1,312,812; Aug. 12; v. 265; p. 213.
- Headlight, Dirigible. W. O. Stout. No. 1,308,204; July 1; v. 264; p. 36.
- Headlight, Dirigible. F. E. Winchester. No. 1,318,333; Oct. 7; v. 267; p. 129.
- Headlight, Dirigible. W. Zadorozny. No. 1,316,665; Sept. 23; v. 266; p. 477.
- Headlight, Dirigible and tiltable. P. J. Strimple. No. 1,311,254; July 29; v. 264; p. 727.
- Headlight, Dirigible automobile. E. Eggimann. No. 1,305,785; June 3; v. 263; p. 105.
- Headlight for automobiles. L. L. Lehmann. No. 1,309,952; July 15; v. 264; p. 425.
- Headlight for automobiles and other vehicles. H. W. Brown. No. 1,295,424; Feb. 25; v. 259; p. 658.
- Headlight for automobiles, Dirigible. W. Clary. No. 1,295,434; Feb. 25; v. 259; p. 660.
- Headlight for automobiles, Dirigible. G. F. Messer. No. 1,312,560; Aug. 12; v. 265; p. 163.
- Headlight for automobiles or similar vehicles. J. U. Barr. No. 1,309,679; July 15; v. 264; p. 375.
- Headlight for motor-vehicles. F. F. MacLean. No. 1,292,840; Jan. 28; v. 258; p. 754.
- Headlight front or lens. F. H. Ford. No. 1,302,148; Apr. 29; v. 261; p. 872.
- Headlight-hood. R. H. Ireland. No. 1,317,578; Sept. 30; v. 266; p. 684.
- Headlight-lamp-actuating mechanism. J. C. Bontrager. No. 1,310,387; July 15; v. 264; p. 503.
- Headlight-lens. L. and H. Benzer. No. 1,314,458; Aug. 26; v. 265; p. 578.
- Headlight-lens. B. Carlisle. No. 1,316,829; Sept. 23; v. 266; p. 506.
- Headlight-lens. D. Foster. No. 1,321,787; Nov. 11; v. 268; p. 334.
- Headlight-lens. D. Foster and F. P. Kelley. No. 1,322,776; Nov. 25; v. 268; p. 621.
- Headlight-lens. E. E. Hillyer. No. 1,298,342; Mar. 25; v. 260; p. 644.
- Headlight-lens. W. H. Morehouse. No. 1,311,570; Jul. 29; v. 264; p. 787.
- Headlight-lens. W. H. Sherrod. No. 1,306,780; June 17; v. 263; p. 354.
- Headlight-lens. C. W. Waggoner. No. 1,310,721; July 22; v. 264; p. 596.
- Headlight lens, Automobile. L. E. Griswold. No. 1,317,872; Oct. 7; v. 267; p. 40.
- Headlight lens, Automobile. J. B. Suess. No. 1,302,239; Apr. 29; v. 261; p. 889.
- Headlight, Locomotive. C. D. Moody. No. 1,308,720; July 1; v. 264; p. 131.
- Headlight mechanism. M. Jackson. No. 1,315,555; Sept. 9; v. 266; p. 207.
- Headlight, Non-glare projecting. J. D. Park. No. 1,295,582; Feb. 25; v. 259; p. 695.
- Headlight or searchlight reflector. A. W. Harris. No. 1,300,725; Apr. 15; v. 261; p. 523.
- Headlight-reflector. H. M. Patch. No. 1,292,637; Jan. 28; v. 258; p. 706.
- Headlight refracting-lens. R. B. Jester. No. 1,290,567; Jan. 7; v. 258; p. 134.
- Headlight-screen, Controllable. W. A. Schroeder. No. 1,305,498; June 3; v. 263; p. 51.
- Headlight-shield. F. Brisbois and J. V. King. No. 1,326,017; Dec. 23; v. 269; p. 647.
- Headlight-tilting device. W. Pennock. No. 1,322,045; Nov. 18; v. 268; p. 432.
- Headlights, Attachment for automobile. J. C. Tripp. No. 1,323,616; Dec. 2; v. 269; p. 74.
- Headlights, Electrically-operated reflector for automobile. W. M. Horton. No. 1,321,443; Nov. 11; v. 268; p. 269.
- Headlights for automobiles, Means for automatically controlling electric. H. E. Wallace. No. 1,304,000; May 20; v. 262; p. 349.
- Headlights, Glare-shield for. W. H. Clemmans. No. 1,325,619; Dec. 23; v. 269; p. 574.
- Headlights, Lens for automobile. W. H. Sherrod. No. 1,323,993; Dec. 2; v. 269; p. 145.
- Headlights, Means for dimming electric. J. R. McFarlin. No. 1,322,917; Nov. 25; v. 268; p. 647.
- Headwear, Attachment for. H. D. Clark. No. 1,296,366; Mar. 4; v. 260; p. 124.
- Headwear, Soldier's. P. Blaszkowski. No. 1,294,863; Feb. 18; v. 259; p. 507.
- Headwear, Soldier's. F. Przybysz. No. 1,299,611; Apr. 8; v. 261; p. 254.
- Health food. S. S. Ravenel. No. 1,303,724; May 13; v. 262; p. 260.
- Hearse-table. C. O. Mathews. No. 1,299,984; Apr. 8; v. 261; p. 337.
- Hearth, Combustion-. A. Doble. No. 1,313,526; Aug. 19; v. 265; p. 367.
- Heat-alarm, Automatic. P. Cardone. No. 1,298,175; Mar. 25; v. 260; p. 609.
- Heat and cold regulator alarm, Automatic. B. W. Jordan. No. 1,312,123; Aug. 5; v. 265; p. 51.
- Heat and power producing apparatus. J. D. Kneeder. No. 1,297,363; Mar. 18; v. 260; p. 411.
- Heat-box. J. R. McKeown. No. 1,319,781; Oct. 28; v. 267; p. 514.
- Heat-conserving. J. C. Round. No. 1,306,281. June 10; v. 263; p. 230.
- Heat-conserving composition. M. Edlund. No. 1,322,098; Nov. 18; v. 268; p. 441.
- Heat-controlling alarm mechanism. P. A. Roth. No. 1,303,395; May 13; v. 262; p. 200.
- Heat-deflecting device. H. M. McElveen. No. 1,318,216; Oct. 7; v. 267; p. 106.
- Heat differentiation, Apparatus for and method of. R. Vuilleminier. No. 1,321,343; Nov. 11; v. 268; p. 250.
- Heat-distributor. J. Baron. No. 1,304,728; May 27; v. 262; p. 520.
- Heat-distributing device. H. Boehnke. No. 1,302,000; Apr. 29; v. 261; p. 845.
- Heat-economizer. J. Koenig. No. 1,292,615; Jan. 28; v. 258; p. 701.
- Heat-engine. G. R. Pratt. No. 1,326,092; Dec. 23; v. 269; p. 662.
- Heat-engine plants and expansion-fluid motors, Heater element for. G. Engelbrekt. No. 1,297,814; Mar. 18; v. 260; p. 507.
- Heat-exchanging apparatus. A. D. Harrison. No. 1,325,637; Dec. 23; v. 269; p. 577.
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- Heat from underground conduits, Dissipating. G. F. Wennagel. No. 1,307,070; June 17; v. 263; p. 408.
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- Heat-insulated receptacle. E. W. Johnston. No. 1,305,903; June 3; v. 263; p. 127.
- Heat-insulating composition and articles made therefrom. F. A. Headson. No. 1,307,548; June 24; v. 263; p. 528.
- Heat-insulating composition and articles made therefrom. F. A. Headson. No. 1,307,549; June 24; v. 263; p. 528.
- Heat-insulating material. K. Wessel. No. 1,295,654; Feb. 25; v. 259; p. 712.



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- Heat insulation. Method of and apparatus for. R. A. Fessenden. No. 1,301,675; Apr. 22; v. 261; p. 751.
- Heat-interchanging apparatus. E. L. Pease. No. 1,291,632; Jan. 14; v. 258; p. 409.
- Heat-interchanging apparatus, Gilled. E. L. Pease. No. 1,313,730; Aug. 19; v. 265; p. 405.
- Heat-interchanging apparatus, Tubular. E. L. Pease. No. 1,312,045; Aug. 5; v. 265; p. 36.
- Heat-motor. F. A. Raffel. No. 1,310,435; July 22; v. 264; p. 544.
- Heat-producing compound. W. F. McNabb. No. 1,309,209; July 8; v. 264; p. 250.
- Heat-radiating apparatus. J. G. Wilkie. No. 1,297,624. Mar. 18; v. 260; p. 466.
- Heat, Receptacle for retaining or excluding. C. M. Fahnestock. No. 1,315,624; Sept. 9; v. 266; p. 219.
- Heat-regulating system. E. N. Lightfoot. No. 1,314,881; Sept. 2; v. 266; p. 75.
- Heat-regulator, Manifold. E. W. and T. Firner. No. 1,290,953; Jan. 14; v. 258; p. 252.
- Heat-regulator, Motor. W. Larson. No. 1,291,811; Feb. 11; v. 259; p. 226.
- Heat-retainer. F. Shriver. No. 1,303,122; May 6; v. 262; p. 123.
- Heat-retaining servitor, Portable cooked-food. G. W. Ferdon. No. 1,324,653; Dec. 9; v. 269; p. 315.
- Heat-storing apparatus, Electric. O. Sælid and K. Petersen. No. 1,311,464; July 29; v. 264; p. 767.
- Heat-treated and the like, Container for articles to be. T. F. Baily and F. T. Cope. No. 1,291,717; Jan. 21; v. 258; p. 459.
- Heat-treating and forging furnace. J. V. Githens. No. 1,298,327; Mar. 25; v. 260; p. 641.
- Heat treating and quenching device. T. F. Baily and F. T. Cope. No. 1,322,750; Nov. 25; v. 268; p. 616.
- Heat treatment of finely-divided materials, Method and apparatus for the. F. O. Francis and N. H. Emmons. No. 1,315,460; Sept. 9; v. 266; p. 190.
- Heat treatment of chemical compounds and method for the operation thereof, Apparatus for. F. X. Govers. No. 1,297,833; Mar. 18; v. 260; p. 511.
- Heater: *See*—
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|-----------------------------------|-----------------------------|
| Air-heater.                       | Intake-manifold heater.     |
| Asphalt-heater.                   | Liquid-heater.              |
| Automobile-heater.                | Magnetic heater.            |
| Automobile gas-heater.            | Manifold-heater.            |
| Automobile-radiator heater.       | Manifold-intake heater.     |
| Bath-tub heater.                  | Mixture-heater.             |
| Bathtub and heater.               | Motor-vehicle heater.       |
| Cane-juice heater.                | Oil-heater.                 |
| Car-heater.                       | Orchard-heater.             |
| Carburetor-heater.                | Portable heater.            |
| Coal and gas heater.              | Radiator-heater.            |
| Electric heater.                  | Rivet-heater.               |
| Electric fluid-heater.            | Solar heater.               |
| Electrical water-heater.          | Stock-tank heater.          |
| Engine-cooler and vehicle-heater. | Stove and hot-water heater. |
| Feed-water heater.                | Tank-heater.                |
| Fireplace-heater.                 | Tank-car heater.            |
| Fuel-heater.                      | Tank water-heater.          |
| Gas-heater.                       | Tea-heater.                 |
| Gaseous-fuel heater.              | Tool-heater.                |
| Hot-air heater.                   | Urn-heater.                 |
| Hot-water heater.                 | Water-heater.               |
| Hot-water and hot-air heater.     |                             |
- Heater. A. C. Althouse. No. 1,314,113; Aug. 26; v. 265; p. 511.
- Heater. C. W. Beman. No. 1,315,078; Sept. 2; v. 266; p. 111.
- Heater. P. J. H. Bernard. No. 1,308,836; July 8; v. 264; p. 180.
- Heater. W. H. Briscoe. No. 1,321,975; Nov. 18; v. 268; p. 419.
- Heater. L. W. Claybourn. No. 1,318,969; Oct. 14; v. 267; p. 311.
- Heater. H. E. Eichorst. No. 1,297,124; Mar. 11; v. 260; p. 331.
- Heater. E. R. Greeley. No. 1,308,669; July 1; v. 264; p. 121.
- Heater. C. W. Hall. No. 1,326,589; Dec. 30; v. 269; p. 792.
- Heater. E. H. Heller and E. Reich. No. 1,301,261; Apr. 22; v. 261; p. 672.
- Heater. H. F. Koch. No. 1,298,517; Mar. 25; v. 260; p. 683.
- Heater. M. Lutzky. No. 1,305,293; June 3; v. 263; p. 12.
- Heater. J. W. F. Macdonald. No. 1,301,863; Apr. 29; v. 261; p. 819.
- Heater. W. F. Messiter. No. 1,293,503; Feb. 4; v. 259; p. 123.
- Heater. C. F. Newport. No. 1,320,790; Nov. 4; v. 268; p. 81.
- Heater. C. C. Pirtle. No. 1,304,596; May 27; v. 262; p. 501.
- Heater. P. Roughen. No. 1,319,621; Oct. 21; v. 267; p. 461.
- Heater. B. C. Skinner. No. 1,321,678; Nov. 11; v. 268; p. 313.
- Heater. E. F. Tweedy. No. 1,308,380; July 1; v. 264; p. 68.
- Heater and auxiliary air device, Combination manifold and fuel-. W. M. Shaw. No. 1,291,193; Jan. 14; v. 258; p. 306.
- Heater device. W. B. Reeve. No. 1,316,976; Sept. 23; v. 266; p. 533.
- Heater elements for liquid-heaters, Forming. F. J. Stuart. No. 1,322,073; Nov. 18; v. 268; p. 437.
- Heater for automobile-bodies. H. G. Hutchinson. No. 1,318,875; Oct. 14; v. 267; p. 293.
- Heater for incubators, Electrical. S. C. Calow. No. 1,322,161; Nov. 18; v. 268; p. 453.
- Heater or boiler. A. H. Morrow. No. 1,312,801; Aug. 12; v. 265; p. 210.
- Heater-reservoirs of oil-engines, Automatic replenishing system for. P. D. Panoulis. No. 1,295,362; Feb. 25; v. 259; p. 643.
- Heater system. L. P. Hynes. No. 1,303,323; May 13; v. 262; p. 188.
- Heater system. L. P. Hynes. No. 1,303,669; May 13; v. 262; p. 251.
- Heater system. L. P. Hynes. No. 1,303,670; May 13; v. 262; p. 251.
- Heaters, Apparatus for starting. B. Podolsky. No. 1,326,137; Dec. 23; v. 269; p. 670.
- Heaters, Automatic heat-regulating and fuel-saving attachment for. D. W. Anderson. No. 1,320,960; Nov. 4; v. 268; p. 114.
- Heaters, Auxiliary head for. W. A. Shelton. No. 1,311,252; July 29; v. 264; p. 727.
- Heaters, Draft-regulator for. W. A. Schleit. No. 1,310,505; July 22; v. 264; p. 556.
- Heating and cooling apparatus. A. M. Feldman. No. 1,315,766; Sept. 9; v. 266; p. 244.
- Heating and humidifying. B. Macfadden. No. 1,291,579; Jan. 14; v. 258; p. 396.
- Heating and lighting apparatus, Electric. R. G. and R. C. Ledig and N. Gerson. No. 1,310,952; July 22; v. 264; p. 638.
- Heating and sprinkler system, Combined. W. B. Hammond. No. 1,316,541; Sept. 16; v. 266; p. 405.
- Heating and ventilating apparatus. A. Rector. No. 1,292,877; Jan. 28; v. 258; p. 762.
- Heating and ventilating systems, Unit for. J. M. Frank. No. 1,295,151; Feb. 25; v. 259; p. 595.
- Heating apparatus. F. Haldeman. No. 1,314,396; Aug. 26; v. 265; p. 566.
- Heating apparatus. J. Koening. No. 1,300,416; Apr. 15; v. 261; p. 457.
- Heating apparatus. W. C. Merrill. No. 1,325,952; Dec. 23; v. 269; p. 635.
- Heating apparatus. H. W. O'Dowd. No. 1,296,209; Mar. 4; v. 260; p. 90.
- Heating apparatus. H. W. O'Dowd. No. 1,316,861; Sept. 23; v. 266; p. 512.
- Heating apparatus. F. T. Oakes. No. 1,291,091; Jan. 14; v. 258; p. 284.
- Heating apparatus. L. C. Smith. No. 1,303,977; May 20; v. 262; p. 345.
- Heating apparatus, Combined gaseous-fuel and water-vapor burning. H. W. Patrick. No. 1,312,080; Aug. 5; v. 265; p. 43.
- Heating apparatus, Domestic gas. C. Ellis. No. 1,304,755; May 27; v. 262; p. 531.
- Heating apparatus, Electric. F. L. Bishop. No. 1,321,504; Nov. 11; v. 268; p. 280.
- Heating apparatus for process-embossing. A. Stokes, Jr. No. 1,325,217; Dec. 16; v. 269; p. 482.
- Heating apparatus grate. G. A. Hollenbeck. No. 1,302,164; Apr. 29; v. 261; p. 875.
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- Heating apparatus, Steam-. W. J. Turner. No. 1,318,514; Oct. 14; v. 267; p. 224.
- Heating appliance. T. A. Ronstrom. No. 1,307,332; June 17; v. 263; p. 455.
- Heating appliance, Electric. E. N. Lightfoot. No. 1,321,649; Nov. 11; v. 268; p. 307.
- Heating, cooking, &c., by electric energy. O. A. Grimes. No. 1,318,746; Oct. 14; v. 267; p. 268.
- Heating device. W. F. Clark. No. 1,322,761; Nov. 25; v. 268; p. 619.
- Heating device. R. Graves. No. 1,324,502; Dec. 9; v. 269; p. 287.
- Heating device. F. C. Ingalls. No. 1,295,509; Feb. 25; v. 259; p. 678.
- Heating device. J. F. Standish. No. 1,320,653; Nov. 4; v. 268; p. 55.
- Heating device. H. Turrettini. No. 1,321,574; Nov. 11; v. 268; p. 293.
- Heating device. M. Wheeler and E. M. Bates. No. 1,297,281; Mar. 11; v. 260; p. 365.
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- Heating device for watchmakers' use, Electrical. B. E. Brown. No. 1,308,655; July 1; v. 264; p. 118.
- Heating element, Electric. F. W. Moffat. No. 1,323,084; Nov. 25; v. 268; p. 679.
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- Heating fluid in heating systems, Regulating device for the temperature of. G. Dalén. No. 1,319,047; Oct. 21; v. 267; p. 351.
- Heating-furnace. B. D. Gray and E. W. Rubencame, Jr. No. 1,321,098; Nov. 11; v. 268; p. 203.
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- Heating liquid by means of heat produced by chemical reactions in closed vessels, Proceeding and apparatus for. H. Turrettini. No. 1,303,618; May 13; v. 262; p. 241.
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- Heating system. R. L. Gifford. No. 1,325,632; Dec. 23; v. 269; p. 576.
- Heating system. A. B. McAdam. No. 1,320,640; Nov. 4; v. 268; p. 52.
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- Heating system. A. G. Paul. No. 1,299,603; Apr. 8; v. 261; p. 252.
- Heating system, Hot-air. W. G. Felton. No. 1,306,420; June 10; v. 263; p. 255.
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- Heating unit, Electrical. W. A. Braun. No. 1,318,838; Oct. 14; v. 267; p. 286.
- Heating unit, Electrical. F. Kuhn and F. E. Shailor. No. 1,310,994; July 22; v. 264; p. 646.
- Heating unit, Electrical. F. Kuhn and J. A. Hand. No. 1,320,155; Oct. 28; v. 267; p. 584.
- Heating unit, Electrical. F. Kuhn and J. A. Hand. No. 1,322,701; Nov. 25; v. 268; p. 607.
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- Heel. S. Goldman. No. 1,310,614; July 22; v. 264; p. 577.
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- Heel. T. J. O'Neill. No. 1,316,505; Sept. 16; v. 266; p. 397.
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- Heel-affixing machine. M. Pusareski. No. 1,323,648; Dec. 2; v. 269; p. 79.
- Heel antislipping device. S. Laszlo and B. Kovacs. No. 1,297,701; Mar. 18; v. 260; p. 483.
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- Heel-blanks, Machine for holding and pressing. G. B. Grover. No. 1,314,587; Sept. 2; v. 266; p. 21.
- Heel-block. D. Winders and A. D. Phares. No. 1,290,460; Jan. 7; v. 258; p. 108.
- Heel, Boot and shoe. J. O. Ulrich. No. 1,318,305; Oct. 7; v. 267; p. 124.
- Heel-breast-trimming machine. T. Lund. No. 1,293,134; Feb. 4; v. 259; p. 37.
- Heel-breast-trimming machine. D. E. Quinlan. No. 1,293,196; Feb. 4; v. 259; p. 51.
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- Heel cushion, Shoe-. J. Pietzuch. No. 1,295,201; Feb. 25; v. 259; p. 607.
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- Heel-cutting apparatus. W. J. Nesbitt. No. 1,326,151; Dec. 23; v. 269; p. 672.
- Heel, Detachable. J. Backer. No. 1,320,357; Oct. 28; v. 267; p. 621.
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- Heel, Detachable. J. W. Smith. No. 1,313,026; Aug. 12; v. 265; p. 255.
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- Heel-lift. G. S. Ellithorpe. No. 1,303,869; May 20; v. 262; p. 325.
- Heel-lift-cementing machine. E. L. Page. No. 1,320,410; Nov. 4; v. 268; p. 10.
- Heel-lift, Rubber. J. H. Overton. No. 1,315,682; Sept. 9; v. 266; p. 229.
- Heel-lift stock, Cutting. G. E. Warren. No. 1,321,169; Nov. 11; v. 268; p. 216.
- Heel-logs, Apparatus for building. W. P. Bosworth. No. 1,315,461; Sept. 9; v. 266; p. 191.
- Heel-operating machine. E. E. Winkley. No. 1,295,945; Mar. 4; v. 260; p. 28.
- Heel-plate. A. Baran. No. 1,304,530; May 27; v. 262; p. 489.
- Heel-protector. G. Becherer. No. 1,297,434; Mar. 18; v. 260; p. 426.
- Heel, Removable. A. V. Des Moineaux. No. 1,301,404; Apr. 22; v. 261; p. 700.
- Heel, Resilient. L. T. Fay. No. 1,325,695; Dec. 23; v. 269; p. 588.
- Heel, Resilient. T. H. Rowland and B. W. Brockett. No. 1,317,222; Sept. 30; v. 266; p. 616.
- Heel, Resilient shoe-. F. A. Nolan. No. 1,292,360; Jan. 21; v. 258; p. 618.
- Heel-retainer. J. E. Ludlam. No. 1,324,400; Dec. 9; v. 269; p. 267.
- Heel, Rubber. G. M. Anderson. No. 1,290,693; Jan. 7; v. 258; p. 165.
- Heel, Rubber. E. J. Hooper. (Reissue.) No. 14,596; Feb. 25; v. 259; p. 753.
- Heel-scouring machine. A. B. Fowler. No. 1,312,529; Aug. 12; v. 265; p. 157.
- Heel-seat-fitting machine. S. J. Wentworth and F. H. Perry. No. 1,307,285; June 17; v. 263; p. 446.
- Heel-seat-forming machine. S. J. Wentworth. No. 1,307,284; June 17; v. 263; p. 446.
- Heel, Shoe-. M. Baron. No. 1,295,257; Feb. 25; v. 259; p. 620.
- Heel, Shoe-. E. M. Cook. No. 1,290,095; Jan. 7; v. 258; p. 20.
- Heel, Shoe-. D. H. Finberg. No. 1,296,939; Mar. 11; v. 260; p. 290.
- Heel, Shoe-. J. A. Formanack. No. 1,315,767; Sept. 9; v. 266; p. 244.
- Heel, Shoe-. T. Hand. No. 1,295,892; Mar. 4; v. 260; p. 17.
- Heel, Shoe-. F. A. Nolan. No. 1,290,774; Jan. 7; v. 258; p. 183.
- Heel, Shoe-. F. Wharton. No. 1,300,070; Apr. 8; v. 261; p. 356.
- Heel, Shoe-. F. Wharton. No. 1,300,071; Apr. 8; v. 261; p. 356.
- Heel, Shoe-. F. Wharton. No. 1,300,072; Apr. 8; v. 261; p. 356.
- Heel-support. N. Harris. No. 1,325,845; Dec. 23; v. 269; p. 616.
- Heel-support. D. L. Martyn and J. M. Henderson. No. 1,299,983; Apr. 8; v. 261; p. 337.
- Heel-sweep. G. D. Kelly. No. 1,324,902; Dec. 16; v. 269; p. 423.
- Heels, Antislip attachment for shoe-. J. Marmorstein. No. 1,290,768; Jan. 7; v. 258; p. 182.
- Heels, Machine for turning. C. E. Reed. No. 1,305,007; May 27; v. 262; p. 577.
- Heels, Making pulp. R. S. Ayres. No. 1,322,081; Nov. 18; v. 268; p. 438.
- Heels, Producing. W. C. Callahan. No. 1,305,060; May 27; v. 262; p. 588.
- Heels, Top lift for shoe-. I. Henne. No. 1,293,429; Feb. 4; v. 259; p. 106.
- Heeling-machine. J. M. Benjamin. No. 1,301,898; Apr. 29; v. 261; p. 825.
- Heeling-machine. C. C. Eaton. No. 1,303,867; May 20; v. 262; p. 325.
- Heeling-machine. F. A. Emery. No. 1,314,071; Aug. 26; v. 265; p. 503.
- Heeling-machine. L. L. Glidden. No. 1,321,202; Nov. 11; v. 268; p. 222.
- Heeling-machine. B. F. Mayo. No. 1,301,899; Apr. 29; v. 261; p. 826.
- Helmet. R. Malcom. No. 1,306,550; June 10; v. 263; p. 279.



*Alphabetical list of inventions—Continued.*

- Hemp-gatherer. E. Lawson. No. 1,311,407; July 29; v. 264; p. 757.
- Henhouse. W. C. Clare. No. 1,320,204; Oct. 28; v. 267; p. 592.
- Hens from setting. Device to prevent. J. J. Gottschalk. No. 1,321,819; Nov. 18; v. 268; p. 390.
- Hen's nest-box. H. Nagelsaker. No. 1,305,736; June 3; v. 263; p. 96.
- Hermetic closure. S. H. Rood. No. 1,300,224; Apr. 8; v. 261; p. 391.
- Hermetically-sealed box. C. H. Nowack. No. 1,324,207; Dec. 9; v. 269; p. 230.
- Hertzian waves. Apparatus for receiving. D. W. Brown. No. 1,319,989; Oct. 28; v. 267; p. 553.
- Hides and skins. Treating. R. R. da Silva. No. 1,304,030; May 20; v. 262; p. 355.
- Hides and the like. Machine for treating. C. P. Bossert. No. 1,300,920; Apr. 15; v. 261; p. 564.
- High chair. C. W. Reynolds. No. 1,292,646; Jan. 28; v. 258; p. 708.
- High chair. Convertible. W. E. McLaren. No. 1,299,366; Apr. 1; v. 261; p. 170.
- High-frequency apparatus. A. Longoria. No. 1,302,391; Apr. 29; v. 261; p. 919.
- High-frequency discharge apparatus. W. J. Herdman. No. 1,323,472; Dec. 2; v. 269; p. 47.
- High-frequency machine. C. W. De Mooy. No. 1,323,354; Dec. 2; v. 269; p. 25.
- High-potential switch. G. T. Southgate. No. 1,310,585; July 22; v. 264; p. 571.
- High-power radiotelegraphic stations. Device for auxiliary starting for. E. Girardeau and J. Bethenod. No. 1,312,972; Aug. 12; v. 265; p. 244.
- High-pressure container. C. V. Lucius. No. 1,291,956; Jan. 21; v. 258; p. 521.
- High-speed transmission. E. S. Bennett. No. 1,293,310; Feb. 4; v. 259; p. 79.
- High-tension lines. Lightning-arrester for. S. S. Sonnenborn. No. 1,312,646; Aug. 12; v. 265; p. 181.
- High-tension locking-switch. E. O. Sessions. No. 1,320,992; Nov. 4; v. 268; p. 120.
- Highway-crossing alarm. Time-controlled. S. C. Bryant. No. 1,296,360; Mar. 4; v. 260; p. 123.
- Highway-crossing signal. S. C. Bryant. No. 1,296,361; Mar. 4; v. 260; p. 123.
- Hiller. F. L. Nau. No. 1,319,607; Oct. 21; v. 267; p. 458.
- Hinge. T. F. Barta. No. 1,321,277; Nov. 11; v. 268; p. 237.
- Hinge. E. A. Bellow. No. 1,312,944; Aug. 12; v. 265; p. 238.
- Hinge. E. A. Bellow. No. 1,312,945; Aug. 12; v. 265; p. 238.
- Hinge. R. Cochran and J. McCormack. No. 1,314,732; Sept. 2; v. 266; p. 49.
- Hinge. C. F. Fishback. No. 1,309,883; July 15; v. 264; p. 412.
- Hinge. I. C. Gray. No. 1,294,793; Feb. 18; v. 259; p. 491.
- Hinge. P. Hall. No. 1,318,663; Oct. 14; v. 267; p. 253.
- Hinge. E. E. Hartman. No. 1,320,143; Oct. 28; v. 267; p. 582.
- Hinge. H. L. Haskell. No. 1,309,730; July 15; v. 264; p. 384.
- Hinge. R. W. Hubbard. No. 1,309,629; July 15; v. 264; p. 365.
- Hinge. J. Kanster. No. 1,311,651; July 29; v. 264; p. 802.
- Hinge. O. Konigslow. No. 1,309,579; July 8; v. 264; p. 319.
- Hinge. O. Konigslow. No. 1,317,196; Sept. 30; v. 266; p. 611.
- Hinge. H. Moore. No. 1,324,262; Dec. 9; v. 269; p. 240.
- Hinge. P. E. Myers. No. 1,313,411; Aug. 19; v. 265; p. 344.
- Hinge. N. C. Nicol. No. 1,313,726; Aug. 19; v. 265; p. 404.
- Hinge. B. C. Rockwell. No. 1,315,417; Sept. 9; v. 266; p. 182.
- Hinge. B. C. Rockwell. No. 1,315,418; Sept. 9; v. 266; p. 182.
- Hinge and making same. C. J. Soss. No. 1,319,427; Oct. 21; v. 267; p. 424.
- Hinge. Automatic door-actuating. L. O. Higley. No. 1,300,267; Apr. 15; v. 261; p. 426.
- Hinge. Ball-bearing self-closing. C. Jelf. No. 1,324,505; Dec. 9; v. 269; p. 288.
- Hinge-butt recesses. Tool for marking and incising. W. Thompson. No. 1,295,386; Feb. 25; v. 259; p. 649.
- Hinge. Concealed. W. A. Henderson. No. 1,291,873; Jan. 21; v. 258; p. 497.
- Hinge. Concealed or invisible butt. J. H. Way. No. 1,325,221; Dec. 16; v. 269; p. 483.
- Hinge construction. F. Richard. No. 1,325,109; Dec. 16; v. 269; p. 462.
- Hinge. Detachable. F. A. Ledward. No. 1,301,461; Apr. 22; v. 261; p. 711.
- Hinge. Door. A. Alary. No. 1,318,824; Oct. 14; v. 267; p. 283.
- Hinge. Door. L. Dodge. No. 1,291,791; Jan. 21; v. 258; p. 477.
- Hinge for boiler-fronts. W. E. Ricketson. No. 1,299,228; Apr. 1; v. 261; p. 139.
- Hinge for corrugated boxes. Lid. H. L. Borders and C. A. Rochrig. No. 1,316,078; Sept. 16; v. 266; p. 317.
- Hinge for doors. G. J. Ayres. No. 1,312,667; Aug. 12; v. 265; p. 185.
- Hinge for doors, windows, flaps, and the like. E. Müller-Meyer. No. 1,298,547; Mar. 25; v. 260; p. 689.
- Hinge for metal boxes or cans. J. J. Cook. No. 1,308,935; July 8; v. 264; p. 198.
- Hinge for shields. L. O. Sieling. No. 1,295,620; Feb. 25; v. 259; p. 704.
- Hinge-gage. F. L. Leibbrand. No. 1,317,799; Oct. 7; v. 267; p. 26.
- Hinge. Gate. F. Adelung. No. 1,316,473; Sept. 16; v. 266; p. 391.
- Hinge. Gate. A. V. Rowe. No. 1,316,062; Sept. 16; v. 266; p. 314.
- Hinge. Invisible. F. J. Korb. No. 1,302,178; Apr. 29; v. 261; p. 878.
- Hinge. Pinless. E. B. Holden and G. L. Clark. No. 1,326,344; Dec. 30; v. 269; p. 745.
- Hinge. Pintle. D. E. Willard. No. 1,323,344; Dec. 2; v. 269; p. 23.
- Hinge. Pivot. F. A. A. Barrs. No. 1,299,658; Apr. 8; v. 261; p. 266.
- Hinge. Pivot. J. Z. Hanson. No. 1,324,667; Dec. 9; v. 269; p. 318.
- Hinge-post. W. L. Clark. No. 1,325,078; Dec. 16; v. 269; p. 456.
- Hinge. Safe. E. Tammi. No. 1,326,305; Dec. 30; v. 269; p. 738.
- Hinge. Screen. J. B. Bradley. No. 1,306,684; June 17; v. 263; p. 337.
- Hinge. Self-locking. W. E. Norton. No. 1,294,301; Feb. 11; v. 259; p. 340.
- Hinge-setter. F. Catalanotto. No. 1,326,583; Dec. 30; v. 269; p. 791.
- Hinge. Shutter. M. C. Buckwalter and L. Garman. No. 1,294,044; Feb. 11; v. 259; p. 280.
- Hinge. Spring. C. M. Lemke. No. 1,302,569; May 6; v. 262; p. 17.
- Hinged members. Support for. J. F. Larsen. No. 1,306,853; June 17; v. 263; p. 368.
- Hinged seat-cushion. A. L. Lambert. No. 1,312,915; Aug. 12; v. 265; p. 233.
- Hinged-structure fastener. R. A. Lippincott and E. F. Billson. No. 1,297,195; Mar. 11; v. 260; p. 346.
- Hip-ring. R. Hartenberger. No. 1,326,862; Dec. 30; v. 269; p. 843.
- Hitch. Harvesting-machine. M. Sedig. No. 1,319,626; Oct. 21; v. 267; p. 462.
- Hitch. Implement. H. P. Jones. No. 1,326,271; Dec. 30; v. 269; p. 732.
- Hitch. Safety. M. Parker. No. 1,292,032; Jan. 21; v. 258; p. 538.
- Hitch. Tractor. F. Saxon. No. 1,319,421; Oct. 21; v. 267; p. 423.
- Hitching device. G. Chromy. No. 1,305,884; June 3; v. 263; p. 124.
- Hive connector or crossover. W. E. Crease. No. 1,321,602; Nov. 11; v. 268; p. 299.
- Hobbing-machine. Automatic. F. H. Greenwood. No. 1,304,874; May 27; v. 262; p. 553.
- Hobby-horse. C. H. Hall. No. 1,295,739; Feb. 25; v. 259; p. 731.
- Hobby-horse. Traveling. E. Schierse. No. 1,325,046; Dec. 16; v. 269; p. 450.
- Hod. Folding. E. B. Walsh and W. Schrier. No. 1,325,820; Dec. 23; v. 269; p. 611.
- Hoe. T. E. Sanders. No. 1,317,596; Sept. 30; v. 266; p. 688.
- Hoe and weeder. Garden. E. Canary. No. 1,294,614; Feb. 18; v. 259; p. 448.
- Hoe. Convertible self-grinding. A. Norris. No. 1,312,802; Aug. 12; v. 265; p. 211.
- Hoeing and chopping apparatus. R. J. Blankenstein. No. 1,299,902; Apr. 8; v. 261; p. 320.
- Hoeing and cotton-chopping machine. Combined. A. L. Hosman. No. 1,299,346; Apr. 1; v. 261; p. 166.
- Hog dehairing and scraping machine. L. A. Kramer. No. 1,325,893; Dec. 23; v. 269; p. 625.
- Hog dehairing, polishing, and scraping machine. R. S. Redfield. No. 1,325,956; Dec. 23; v. 269; p. 636.
- Hog-farrowing guard-rail. P. W. Stanke. No. 1,318,815; Oct. 14; v. 267; p. 281.
- Hog-fountain. J. H. Wickstrom. No. 1,317,148; Sept. 23; v. 266; p. 566.
- Hog-greaser. E. Starbuck. No. 1,315,583; Sept. 9; v. 266; p. 212.
- Hog-hoist. R. J. Watson and A. E. Ozouf. No. 1,317,745; Oct. 7; v. 267; p. 16.
- Hog-housing device. F. A. Webster. No. 1,306,365; June 10; v. 263; p. 246.
- Hog-oiler. J. Harhite. No. 1,291,367; Jan. 14; v. 258; p. 346.
- Hog-oiler. H. S. Busby. No. 1,295,115; Feb. 25; v. 259; p. 547.
- Hog-oiler. E. S. Johnson. No. 1,290,753; Jan. 7; v. 258; p. 179.
- Hog-oiler. C. J. Larkin and E. F. and E. M. Fox. No. 1,314,274; Aug. 26; v. 265; p. 543.

- Hog-oiler. H. L. Little. No. 1,295,908; Mar. 4; v. 260; p. 20.
- Hog-ringer. A. T. Parker. No. 1,306,714; June 17; v. 263; p. 342.
- Hog scalding, dehairing, and cleaning machine. R. E. Jordan. No. 1,301,450; Apr. 22; v. 261; p. 709.
- Hog-scraper. C. G. Schmidt, C. Naegelen, and H. Kornmann. No. 1,293,211; Feb. 4; v. 259; p. 54.
- Hog scraping and cleaning machine. J. W. Kohlhepp. No. 1,323,635; Dec. 2; v. 269; p. 77.
- Hog self-feeding machine. T. C. Brackenbury. No. 1,292,693; Jan. 28; v. 258; p. 720.
- Hog-singeing apparatus. H. D. Bliss and W. H. Neubeck. No. 1,291,738; Jan. 21; v. 258; p. 464.
- Hog-waterer. C. V. Crull. No. 1,319,567; Oct. 21; v. 267; p. 450.
- Hog-waterer. F. H. Page. No. 1,308,806; July 8; v. 264; p. 174.
- Hoist. C. S. Bowman. No. 1,307,954; June 24; v. 263; p. 602.
- Hoist. J. W. Kittredge. No. 1,318,568; Oct. 14; v. 267; p. 235.
- Hoist. L. Korzagadarian. No. 1,326,670; Dec. 30; v. 269; p. 807.
- Hoist. W. M. Phares. No. 1,316,181; Sept. 16; v. 266; p. 336.
- Hoist and transporting apparatus. W. Travell. No. 1,318,467; Oct. 14; v. 267; p. 215.
- Hoist, Bit-. B. E. Parrish and S. Stage. No. 1,294,153; Feb. 11; v. 259; p. 306.
- Hoist control, Inclined-. D. F. Lepley. No. 1,294,124; Feb. 11; v. 259; p. 299.
- Hoist for ensilage-cutters, Delivery-member. E. S. Charles. No. 1,314,570; Sept. 2; v. 266; p. 18.
- Hoist, Shock-. E. W. Burgess. No. 1,314,569; Sept. 2; v. 266; p. 18.
- Hoist, Skip-. D. S. Reynolds. No. 1,323,911; Dec. 2; v. 269; p. 130.
- Hoist, Traversing. C. E. Yarian. No. 1,290,469; Jan. 7; v. 258; p. 111.
- Hoists, Adjustable overhead support for. A. A. E. Snyder. No. 1,309,048; July 8; v. 264; p. 220.
- Hoisting and conveying apparatus. S. C. Harper. No. 1,311,692; July 29; v. 264; p. 809.
- Hoisting and conveying apparatus. J. McMyler. No. 1,296,201; Mar. 4; v. 260; p. 88.
- Hoisting apparatus. M. H. Mills. No. 1,321,386; Nov. 11; v. 268; p. 258.
- Hoisting apparatus. T. J. Morgan. No. 1,319,964; Oct. 28; v. 267; p. 548.
- Hoisting apparatus. A. E. Norris. No. 1,304,359; May 20; v. 262; p. 417.
- Hoisting apparatus. F. J. Schraeder, Jr. (Reissue.) No. 1,473,1; Sept. 30; v. 266; p. 703.
- Hoisting apparatus, Portable. J. B. Blaw. No. 1,310,598; July 22; v. 264; p. 573.
- Hoisting attachment for dump-bodies. J. S. Minton. No. 1,304,792; May 27; v. 262; p. 538.
- Hoisting device, Ash and refuse. J. M. Barney. No. 1,321,412; Nov. 11; v. 268; p. 263.
- Hoisting-drums. Clutch-operating mechanism for. R. Bowles. No. 1,292,691; Jan. 28; v. 258; p. 719.
- Hoisting-frame, Knockdown. J. Jerome and G. O. Eberhardt. No. 1,298,508; Mar. 25; v. 260; p. 681.
- Hoisting-Jack and control therefor. G. B. Read. No. 1,305,006; May 27; v. 262; p. 577.
- Hoisting-machine. H. J. and J. J. King. No. 1,315,970; Sept. 16; v. 266; p. 297.
- Hoisting-machine. A. J. Schipper. No. 1,317,322; Sept. 30; v. 266; p. 635.
- Hoisting means. T. F. Hunter. No. 1,303,322; May 13; v. 262; p. 187.
- Hoisting mechanism. N. F. Havens. No. 1,312,115; Aug. 5; v. 265; p. 50.
- Hoisting mechanism. O. Hively and J. Kloos. No. 1,315,124; Sept. 2; v. 266; p. 118.
- Hoisting mechanism. E. Y. Moore. No. 1,325,259; Dec. 16; v. 269; p. 490.
- Holder. *See*—  
Tool-holder.
- Holder. W. J. Davis. No. 1,303,864; May 20; v. 262; p. 325.
- Holder. O. E. Droege and G. A. Robinson. No. 1,306,585; June 10; v. 263; p. 285.
- Holder. H. B. Levins. No. 1,311,657; July 29; v. 264; p. 803.
- Holder, Candle-. J. F. Martin. No. 1,302,399; Apr. 29; v. 261; p. 920.
- Holder for stick material. F. Grant. No. 1,306,179; June 10; v. 263; p. 209.
- Holder for personal treatment preparations. A. Moeller. (Reissue.) No. 1,461,9; Mar. 25; v. 260; p. 707.
- Holder, Medal-. A. Maurer. No. 1,310,803; July 22; v. 264; p. 612.
- Holder-on. A. Hunter. No. 1,323,059; Nov. 25; v. 268; p. 674.
- Holding and driving device for testing purposes. B. J. Haskins. No. 1,310,396; July 15; v. 264; p. 505.
- Holding device. W. C. Firth. No. 1,296,275; Mar. 4; v. 260; p. 105.
- Holding means for portable apparatus. J. B. Locraft. No. 1,313,307; Aug. 19; v. 265; p. 325.
- Hole-digger. L. S. Adams. No. 1,319,259; Oct. 21; v. 267; p. 392.
- Hollow articles, Apparatus for forming. C. Reigart. No. 1,314,366; Aug. 26; v. 265; p. 560.
- Hollow handle for screw-dies, pipe-cutters, &c. H. G. Monkhorst. No. 1,323,898; Dec. 2; v. 269; p. 127.
- Hollow glassware, Process and machine for making. J. Kau. No. 1,292,051; Jan. 21; v. 258; p. 543.
- Hollow spar, wooden tube, and the like. E. McGruer. No. 1,314,007; Aug. 26; v. 265; p. 491.
- Holster. S. S. Morrison. No. 1,322,198; Nov. 18; v. 268; p. 460.
- Homogenizer. C. S. Allen. No. 1,311,737; July 29; v. 264; p. 818.
- Honeycomb foundation. V. V. Kunkel. No. 1,323,870; Dec. 2; v. 269; p. 121.
- Hood. H. Slawin. No. 1,309,783; July 15; v. 264; p. 393.
- Hood and electric-light support. G. W. Cassidy. No. 1,295,852; Mar. 4; v. 260; p. 8.
- Hood-fastener. J. F. White. No. 1,300,796. Apr. 15; v. 261; p. 538.
- Hood for children's garments. L. G. Milkes. No. 1,309,042; July 8; v. 264; p. 219.
- Hood-lift motor-ventilator. A. E. Ashley. No. 1,308,923; July 8; v. 264; p. 196.
- Hood or bonnet. A. C. Schulz. No. 1,300,032; Apr. 8; v. 261; p. 348.
- Hood, Slasher-. R. O. Pickens. No. 1,326,420; Dec. 30; v. 269; p. 760.
- Hood, Smoke-. A. W. Gerlach. No. 1,321,027; Nov. 4; v. 268; p. 126.
- Hoof-trimming machine. J. R. Gilliland. No. 1,304,761; May 27; v. 262; p. 532.
- Hook. *See*—  
Awning-hook. Hay and manure hook.  
Belt-hook. Key-ring hook.  
Boat-releasing hook. Live-bait hook.  
Boot-jack hook. Logging-hook.  
Bottle-suspending hook. Meat-hook.  
Bracelet end hook. Picture-hook.  
Counterbalancing-hook. Plating-hook.  
Door-hook. Releasing-hook.  
Finger-hook. Rigging-hook.  
Fish-hook. Roller-cord hook.  
Fishing-hook. Safety-hook.  
Grab-hook. Safety coupling-hook.  
Grass-hook. Snap-hook.  
Hammock-hook. Timber-hook.  
Hat and clothes hook.
- Hook. A. E. Carlton. No. 1,299,424; Apr. 8; v. 261; p. 211.
- Hook. J. F. Carpmill and H. G. Hancock. No. 1,299,821; Apr. 8; v. 260; p. 303.
- Hook. G. E. Darr. No. 1,311,499; July 29; v. 264; p. 774.
- Hook. G. B. N. Dow and F. Cole. No. 1,325,627; Dec. 23; v. 269; p. 575.
- Hook. D. Flood and A. Pearson. No. 1,305,892; June 3; v. 263; p. 125.
- Hook. N. A. Hume. No. 1,314,963; Sept. 2; v. 266; p. 89.
- Hook. D. C. Lawson. No. 1,325,202; Dec. 16; v. 269; p. 480.
- Hook and eye. M. Wheeler and E. M. Bates. No. 1,295,656; Feb. 25; v. 259; p. 712.
- Hook and eye, Safety. E. A. Trenerry. No. 1,323,558; Dec. 2; v. 269; p. 63.
- Hook-and-eye safety-lock. L. P. Bourgeois, Jr. No. 1,325,433; Dec. 16; v. 269; p. 522.
- Hook and guard therefor. C. D. Keator. No. 1,298,051; Mar. 25; v. 260; p. 583.
- Hook, Link-. C. Billbrough. No. 1,320,828; Nov. 4; v. 268; p. 88.
- Hook-switch and circuit therefor. R. H. Manson. No. 1,303,351; May 13; v. 262; p. 192.
- Hoop. *See*—  
Cheese-hoop. Toy hoop.
- Hoop. G. E. Thackray. No. 1,297,419; Mar. 18; v. 260; p. 422.
- Hop-strainers and the like, Feed connection for. A. G. Hupfel. No. 1,296,187; Mar. 4; v. 260; p. 85.
- Hopper, Coking-. V. Mackay. No. 1,322,323; Nov. 18; v. 268; p. 484.
- Hopper, Dumping-. A. P. Lee. No. 1,325,495; Dec. 16; v. 269; p. 533.
- Hopper mechanism. R. L. Wilcox. No. 1,311,256; July 29; v. 264; p. 728.
- Hoppers or bins, Telltale and means for controlling the feed of material to. C. J. Gadd. No. 1,304,553; May 27; v. 262; p. 493.
- Hopple and tail-holder, Cow-. W. L. Stansberry. No. 1,315,689; Sept. 9; v. 266; p. 230.
- Hopple, Animal-. L. D. Wyld. No. 1,301,349; Apr. 22; v. 261; p. 691.
- Hormones and phosphatides and obtaining same. S. Fraenkel and E. Hermann. No. 1,314,321; Aug. 26; v. 265; p. 551.
- Horn, Amplifying-. R. A. Willson. No. 1,311,478; July 29; v. 264; p. 770.
- Horn and light, Combination. W. D. Schaaf. No. 1,290,366; Jan. 7; v. 258; p. 84.



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- Horn and means for operating same, Diaphragm-. A. L. McMurtry. No. 1,309,764; July 15; v. 264; p. 390.
- Horn and sound-box, Combined. W. H. Tonk. No. 1,311,300; July 29; v. 264; p. 736.
- Horn, Automobile-. O. C. Jensen. No. 1,318,673; Oct. 14; v. 267; p. 255.
- Horn, Automobile-. C. Simek. No. 1,318,613; Oct. 14; v. 267; p. 243.
- Horn, Diaphragm-. M. R. Hutchison. No. 1,320,759; Nov. 4; v. 268; p. 75.
- Horn, Diaphragm-. A. L. McMurtry. No. 1,299,201; Apr. 1; v. 261; p. 133.
- Horn, Electric. G. Blumberg and J. A. Butkus. No. 1,317,123; Sept. 23; v. 266; p. 561.
- Horn, Electric. W. M. Horton. No. 1,321,446; Nov. 11; v. 268; p. 270.
- Horn-lock. J. Plucinsky, J. Novobilskie, and P. Dzlga. No. 1,320,171; Oct. 28; v. 267; p. 587.
- Horn, Mechanical. G. A. Proctor. No. 1,293,919; Feb. 11; v. 259; p. 250.
- Horn, Self-playing musical siren-. J. Papp. No. 1,315,636; Sept. 9; v. 266; p. 221.
- Horn, Signal-. J. C. Coulombe. No. 1,301,106; Apr. 22; v. 261; p. 640.
- Horn, Signal-. E. Moard. No. 1,294,936; Feb. 18; v. 259; p. 524.
- Horns, Support for mechanically-actuated. G. J. Seiss. No. 1,322,831; Nov. 25; v. 268; p. 631.
- Horse and mule shoes, Spring-heel for. G. H. Burke. No. 1,317,070; Sept. 23; v. 266; p. 551.
- Horse-detacher. J. M. Garner. No. 1,295,153; Feb. 25; v. 259; p. 596.
- Horse-detacher. E. S. Lidmila. No. 1,321,763; Nov. 11; v. 268; p. 329.
- Horse-hitching device. S. Leece. No. 1,321,681; Nov. 11; v. 268; p. 313.
- Horse-hitching device. J. K. Skinder. No. 1,323,725; Dec. 2; v. 269; p. 94.
- Horse, Motor-propelled. C. L. Johnson. No. 1,308,425; July 1; v. 264; p. 76.
- Horse-nail. G. J. Capewell. No. 1,324,795; Dec. 16; v. 269; p. 404.
- Horse or trestle, Folding. F. Beland. No. 1,298,867; Apr. 1; v. 261; p. 57.
- Horse-overshoe. G. W. Mohr. No. 1,296,203; Mar. 4; v. 260; p. 89.
- Horse-power apparatus. G. W. North. No. 1,292,857; Jan. 28; v. 258; p. 757.
- Horses or mules while being shod, Device for securing. E. Garnier. No. 1,318,202; Oct. 7; v. 267; p. 104.
- Horsehair, Interlacing curled. A. R. Billington. No. 1,314,565; Sept. 2; v. 266; p. 17.
- Horseshoe. C. Danielson. No. 1,311,680; July 29; v. 264; p. 807.
- Horseshoe. C. J. Dion. No. 1,312,685; Aug. 12; v. 265; p. 188.
- Horseshoe. C. C. Ferguson. No. 1,300,944; Apr. 15; v. 261; p. 569.
- Horseshoe. T. E. Gibbs. No. 1,316,571; Sept. 23; v. 266; p. 458.
- Horseshoe. C. H. Grant. No. 1,294,896; Feb. 18; v. 259; p. 514.
- Horseshoe. H. Krawczynszyn. No. 1,302,675; May 6; v. 262; p. 36.
- Horseshoe. G. E. Lindberg. No. 1,320,878; Nov. 4; v. 268; p. 98.
- Horseshoe. R. McCoy. No. 1,298,864; Mar. 25; v. 260; p. 649.
- Horseshoe attachment. S. Noro. No. 1,307,636; June 24; v. 263; p. 543.
- Horseshoe-calk. S. Bortree. No. 1,297,070; Mar. 11; v. 260; p. 319.
- Horseshoe-calk. P. La Plant. No. 1,310,996; July 22; v. 264; p. 647.
- Horseshoe-calk. R. Whitaker, Jr. No. 1,301,345; Apr. 22; v. 261; p. 690.
- Horseshoe-calk. Detachable. E. M. Butler. No. 1,318,841; Oct. 31; v. 267; p. 286.
- Horseshoe-calks, Making. M. J. Griffin. No. 1,324,192; Dec. 9; v. 269; p. 227.
- Horseshoe hoof-pad. B. P. Gray. No. 1,320,000; Oct. 28; v. 267; p. 555.
- Horseshoes, Heel-calk for. L. Bowers. No. 1,315,080; Sept. 2; v. 266; p. 111.
- Horseshoes, Manufacturing. W. T. Sheperdson. No. 1,324,748; Dec. 9; v. 269; p. 333.
- Hose and garment supporter. J. E. Lindsay. No. 1,296,674; Mar. 11; v. 260; p. 229.
- Hose attachment. T. M. Hughs. No. 1,310,866; July 22; v. 264; p. 623.
- Hose-band. C. G. Neiglick. No. 1,305,737; June 3; v. 263; p. 96.
- Hose-clamp. L. O. Brown. No. 1,295,001; Feb. 18; v. 259; p. 538.
- Hose-clamp. F. P. D'Arcy. No. 1,304,546; May 27; v. 262; p. 492.
- Hose-clamp. T. M. Funk. No. 1,291,471; Jan. 14; v. 258; p. 372.
- Hose-clamp. H. Hayes. No. 1,293,093; Feb. 4; v. 259; p. 28.
- Hose-clamp. T. Hill. No. 1,309,476; July 8; v. 264; p. 299.
- Hose-clamp. E. J. Rohrbacher. No. 1,294,951; Feb. 18; v. 259; p. 527.
- Hose-clamp. J. G. Schonfarber. No. 1,309,780; July 15; v. 264; p. 393.
- Hose-clamp. H. B. Sherman. No. 1,317,326; Sept. 30; v. 266; p. 636.
- Hose-clamp-supporting means. W. J. Lorch. No. 1,297,483; Mar. 18; v. 260; p. 436.
- Hose-clasp. E. Karadaghli. No. 1,307,129; June 17; v. 263; p. 418.
- Hose connection. J. W. Frazier and F. E. Hansen. No. 1,295,474; Feb. 25; v. 259; p. 669.
- Hose connection. C. J. Johnson. No. 1,324,674; Dec. 9; v. 269; p. 319.
- Hose connector or coupling and making same. L. R. Nelson. No. 1,321,324; Nov. 11; v. 268; p. 246.
- Hose connectors or couplings, Making. L. R. Nelson. No. 1,321,323; Nov. 11; v. 268; p. 246.
- Hose construction. C. M. C. Baird. No. 1,301,354; Apr. 22; v. 261; p. 691.
- Hose-coupling. R. B. Booth. No. 1,304,653; May 27; v. 262; p. 512.
- Hose-coupling. N. B. Braly. No. 1,310,559; July 22; v. 264; p. 566.
- Hose-coupling. A. J. Brown and A. A. Somerville. No. 1,326,250; Dec. 30; v. 269; p. 728.
- Hose-coupling. A. J. Clark. No. 1,296,481; Mar. 4; v. 260; p. 148.
- Hose-coupling. J. A. Dempsey. No. 1,298,303; Mar. 25; v. 260; p. 637.
- Hose-coupling. D. Ferguson. No. 1,324,654; Dec. 9; v. 269; p. 316.
- Hose-coupling. E. S. Foster. No. 1,325,468; Dec. 16; v. 269; p. 528.
- Hose-coupling. E. E. Gold. No. 1,312,625; Aug. 12; v. 265; p. 177.
- Hose-coupling. B. F. Gragg. No. 1,290,974; Jan. 14; v. 258; p. 256.
- Hose-coupling. E. Kessler. No. 1,291,020; Jan. 14; v. 258; p. 266.
- Hose-coupling. A. Kiell. No. 1,300,414; Apr. 15; v. 261; p. 457.
- Hose-coupling. J. T. Nelson. No. 1,303,367; May 13; v. 262; p. 495.
- Hose-coupling. E. E. Poston. No. 1,310,134; July 15; v. 264; p. 457.
- Hose-coupling. T. P. Salley. No. 1,307,273; June 17; v. 263; p. 444.
- Hose-coupling. A. E. Stove. No. 1,323,117; Nov. 25; v. 268; p. 685.
- Hose-coupling. W. G. Wilson. No. 1,317,535; Sept. 30; v. 266; p. 676.
- Hose-coupling, Automatic. A. B. Fennewald. No. 1,313,805; Aug. 19; v. 265; p. 419.
- Hose-coupling, Automatic. J. B. Gagne. No. 1,316,153; Sept. 16; v. 266; p. 331.
- Hose coupling, Automatic air-. W. H. Stone. No. 1,311,023; July 22; v. 264; p. 652.
- Hose-coupling gasket. J. W. Southern. No. 1,295,228; Feb. 25; v. 259; p. 613.
- Hose, Device for securing couplings to flexible. J. D. Russ. No. 1,296,222; Mar. 4; v. 260; p. 93.
- Hose drier and stretcher. J. Domecq. No. 1,313,169; Aug. 12; v. 265; p. 283.
- Hose, Elastic. M. E. Thompson. No. 1,296,442; Mar. 4; v. 260; p. 140.
- Hose-holder. O. C. Kreer. No. 1,323,535; Dec. 2; v. 269; p. 59.
- Hose-lines, Clamping. C. J. Nyquist. No. 1,309,332; July 8; v. 264; p. 273.
- Hose-making machine. J. T. Lister. No. 1,316,052; Sept. 16; v. 266; p. 312.
- Hose-making machine. J. M. Oden. No. 1,322,464; Nov. 18; v. 268; p. 511.
- Hose-mender. J. Merz. No. 1,303,098; May 6; v. 262; p. 118.
- Hose, Nozzle for filling-. W. S. Townsend. No. 1,319,439; Oct. 21; v. 267; p. 426.
- Hose-nozzle-sprayer attachment. R. R. Kermack and E. G. O'Donnell. No. 1,299,958; Apr. 8; v. 261; p. 332.
- Hose nozzles, Safety attachment for air-. W. H. Pitts. No. 1,322,338; Nov. 18; v. 268; p. 487.
- Hose-pipe coupling. J. C. Hooper and A. Knell, Jr. No. 1,295,503; Feb. 25; v. 259; p. 676.
- Hose, Process and apparatus for manufacturing. C. R. Griffith. No. 1,319,387; Oct. 21; v. 267; p. 416.
- Hose-rack. C. Nuhring. No. 1,316,734; Sept. 23; v. 266; p. 490.
- Hose-reel. E. C. Bragg. No. 1,291,387; Jan. 14; v. 258; p. 351.
- Hose-reel. C. Nuhring. No. 1,322,604; Nov. 25; v. 268; p. 590.
- Hose-repair device. L. J. Anderson. No. 1,290,041; Jan. 7; v. 258; p. 6.
- Hose-stand. B. E. Rico. No. 1,306,676; June 10; v. 263; p. 303.
- Hose, Steam-. J. Kahn. No. 1,314,333; Aug. 26; v. 265; p. 554.
- Hose-supporter. F. H. Childs. No. 1,306,800; June 17; v. 263; p. 358.

- Hose-supporter. W. W. Colson. No. 1,320,207; Oct. 28; v. 267; p. 593.
- Hose-supporter. E. J. Cottun. No. 1,319,566; Oct. 21; v. 267; p. 450.
- Hose-supporter. W. E. Cowling. No. 1,308,774; July 8; v. 264; p. 169.
- Hose-supporter. D. R. Dix. No. 1,324,802; Dec. 16; v. 269; p. 406.
- Hose-supporter. S. A. Glynn, W. H. Wolpert, and C. J. Hanzel. No. 1,294,649; Feb. 18; v. 259; p. 457.
- Hose-supporter. R. B. Golemon. No. 1,298,691; Apr. 1; v. 261; p. 16.
- Hose-supporter. J. J. Hraby. No. 1,317,876; Oct. 7; v. 267; p. 41.
- Hose-supporter. E. L. Lovejoy. No. 1,298,525; Mar. 25; v. 260; p. 685.
- Hose-supporter. H. H. Megary. No. 1,291,062; Jan. 14; v. 258; p. 277.
- Hose-supporter. C. E. Morehouse. No. 1,309,691; July 15; v. 264; p. 377.
- Hose-supporter. J. S. North. No. 1,294,146; Feb. 11; v. 259; p. 304.
- Hose-supporter. C. C. Peterson. No. 1,315,573; Sept. 9; v. 266; p. 210.
- Hose-supporter. W. J. Tonahill, Jr. No. 1,322,373; Nov. 18; v. 268; p. 494.
- Hose-supporter button. H. J. Stuart. No. 1,290,678; Jan. 7; v. 258; p. 161.
- Hose-testing device. S. A. Nims. No. 1,315,325; Sept. 9; v. 266; p. 165.
- Hose to faucets, Device for connecting. L. W. Serrell. No. 1,292,524; Jan. 28; v. 258; p. 678.
- Hosiery. L. A. Fry. No. 1,293,399; Feb. 4; v. 259; p. 98.
- Hosiery. E. Nordblad. No. 1,314,356; Aug. 26; v. 265; p. 558.
- Hosiery. C. G. Young. No. 1,297,504; Mar. 18; v. 260; p. 446.
- Hosiery drying and shaping structure. J. Gerritson. No. 1,320,753; Nov. 4; v. 268; p. 74.
- Hosiery. Method and apparatus for turning. W. L. Rieck and W. H. Bretall. No. 1,321,944; Nov. 18; v. 268; p. 414.
- Hospital-bed. J. Ford. No. 1,318,271; Oct. 7; v. 267; p. 117.
- Hospital-screen. E. T. Gray. No. 1,300,722; Apr. 15; v. 261; p. 522.
- Hot-air engine. A. T. Kasley. No. 1,290,756; Jan. 7; v. 258; p. 179.
- Hot-air furnace. J. P. Johnson. No. 1,317,794; Oct. 7; v. 267; p. 25.
- Hot-air furnace. V. Rubin. No. 1,300,880; Apr. 15; v. 261; p. 555.
- Hot-air furnace. T. H. Monaghan and R. F. Lindeman. No. 1,323,305; Dec. 2; v. 269; p. 15.
- Hot-air furnace. J. R. Stretesky. No. 1,325,421; Dec. 16; v. 269; p. 519.
- Hot-air heater. H. Townsend and W. B. Dixon. No. 1,309,000; July 8; v. 264; p. 21.
- Hot-air register and attachments. D. Van Evera. No. 1,293,582; Feb. 4; v. 259; p. 141.
- Hot-plate apparatus. H. F. Shepherd. No. 1,317,899; Oct. 7; v. 267; p. 45.
- Hot-water and hot-air heater, Combined. L. S. Roberts. No. 1,292,515; Jan. 28; v. 258; p. 676.
- Hot-water and ice bag closure or stopper. J. J. Bowes, Jr. No. 1,292,690; Jan. 28; v. 258; p. 719.
- Hot-water bag. M. L. Reid. No. 1,317,102; Sept. 23; v. 266; p. 557.
- Hot-water heater. A. E. Bicknell. No. 1,296,909; Mar. 11; v. 260; p. 283.
- Hot-water heating systems, Circulating device for. A. E. Crowhurst. No. 1,290,521; Jan. 7; v. 258; p. 123.
- Horbed and run-out table mechanism. W. Ahlen and K. H. Cedarlund. No. 1,310,231; July 15; v. 264; p. 475.
- Horbed, Double. A. T. Keller. No. 1,315,670; Sept. 9; v. 266; p. 227.
- Hothouse or protector for young plants. C. M. Stuber. No. 1,326,113; Dec. 23; v. 269; p. 665.
- Hotel-register device, Loose-leaf. W. H. Hall. No. 1,302,654; May 6; v. 262; p. 33.
- House: See—
- Engine-house. Smoke-house.
- Pig-farrowing house. Storage-house.
- Portable house. Toy house.
- House construction, Frame. H. Mason. No. 1,315,142; Sept. 2; v. 266; p. 122.
- House-wiring apparatus. G. H. Inman. No. 1,305,968; June 3; v. 263; p. 140.
- Household furnace. J. N. Richardson. No. 1,309,260; July 8; v. 264; p. 259.
- Hub, Automobile-wheel. E. N. Arnspiger. No. 1,300,807; Apr. 15; v. 261; p. 541.
- Hub, Ball-bearing. A. Benson. No. 1,303,235; May 13; v. 262; p. 172.
- Hub-brake, Bicycle. A. L. Cleaver. No. 1,317,554; Sept. 30; v. 266; p. 679.
- Hub caps, Retaining device for wheel. J. Ledwinka. No. 1,299,359; Apr. 1; v. 261; p. 168.
- Hub construction. F. Spranger. No. 1,306,503; June 10; v. 263; p. 271.
- Hub, Emergency. J. H. Mason. No. 1,313,405; Aug. 19; v. 265; p. 343.
- Hub, Emergency. R. L. Shambaugh. No. 1,300,034; Apr. 8; v. 261; p. 348.
- Hub-plate, Adjustable. A. J. Sams. No. 1,296,856; Mar. 11; v. 260; p. 270.
- Hub, Self-oiling. F. Crawford. No. 1,312,683; Aug. 12; v. 265; p. 187.
- Hub structure. E. Ibach. No. 1,302,049; Apr. 29; v. 261; p. 854.
- Hub structure. W. R. Wilson. No. 1,304,231; May 20; v. 262; p. 391.
- Hub structure, Locking. C. Schenck. No. 1,298,797; Apr. 1; v. 261; p. 43.
- Hub structure, Wheel. C. Schenck. No. 1,298,798; Apr. 1; v. 261; p. 43.
- Hub, Vehicle. E. H. Riordan. No. 1,297,250; Mar. 11; v. 260; p. 358.
- Hub, Vehicle-wheel. A. L. Putnam. No. 1,295,060; Feb. 18; v. 259; p. 551.
- Hub, Vehicle-wheel. O. Zarth. No. 1,317,063; Sept. 23; v. 266; p. 550.
- Hub, Wheel. C. S. Ash. No. 1,314,380; Aug. 26; v. 265; p. 563.
- Hub, Wheel. C. S. Ash. No. 1,316,997; Sept. 23; v. 266; p. 537.
- Hub, Wheel. J. Kelsey. No. 1,309,804; July 15; v. 264; p. 397.
- Hub, Wheel. G. R. D. Masters. No. 1,317,090; Sept. 23; v. 266; p. 555.
- Hub, Wheel. P. Montucchiaro. No. 1,295,350; Feb. 25; v. 259; p. 641.
- Hub, Wheel. J. Riise. No. 1,301,505; Apr. 22; v. 261; p. 719.
- Hub, Wheel. J. Riise. No. 1,301,506; Apr. 22; v. 261; p. 719.
- Hubs and axles, Connecting means for. L. H. Buckner. No. 1,306,519; June 10; v. 263; p. 274.
- Hubs, Dust-cap for. R. D. Jeffries. No. 1,303,066; May 6; v. 262; p. 111.
- Hull construction. S. H. Woodard. No. 1,318,712; Oct. 14; v. 267; p. 261.
- Huller: See—
- Pea-huller.
- Huller. L. Baudendistel. No. 1,320,968; Nov. 4; v. 268; p. 115.
- Huller. W. F. Surratt. No. 1,324,185; Dec. 9; v. 269; p. 225.
- Hulling-machine. T. T. Ammons. No. 1,326,164; Dec. 30; v. 269; p. 712.
- Hulling-machine. D. Krause. No. 1,305,811; June 3; v. 263; p. 110.
- Human body, Apparatus for treating parts of the. I. D'Orsay. No. 1,312,619; Aug. 12; v. 265; p. 176.
- Humidification, Effecting. L. H. Parker. No. 1,307,875; June 24; v. 263; p. 587.
- Humidifier. J. A. Andrews and J. W. Herbert. No. 1,316,073; Sept. 16; v. 266; p. 315.
- Humidifier. W. L. Cass. No. 1,292,431; Jan. 28; v. 258; p. 656.
- Humidifier. L. C. Lewis. No. 1,322,911; Nov. 25; v. 268; p. 646.
- Humidifier. O. C. Little. No. 1,312,997; Aug. 12; v. 265; p. 249.
- Humidifier. D. F. Loudon. No. 1,311,701; July 29; v. 264; p. 811.
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- Humidifier system and apparatus. F. and J. Lindmeier. No. 1,291,946; Jan. 21; v. 258; p. 518.
- Humidifying air, Method and apparatus for. G. W. D'Arcy. No. 1,302,515; May 6; v. 262; p. 7.
- Humidifying apparatus. G. S. Faber. No. 1,293,742; Feb. 11; v. 259; p. 209.
- Humidifying apparatus. G. S. Faber. No. 1,294,074; Feb. 11; v. 259; p. 288.
- Humidifying apparatus, Automatically-controlled. G. S. Faber. No. 1,294,073; Feb. 11; v. 259; p. 287.
- Humidifying device. V. A. Larson. No. 1,310,705; July 22; v. 264; p. 593.
- Humidifying device. A. A. Siegler. No. 1,325,587; Dec. 23; v. 269; p. 568.
- Humidifying or spraying apparatus. H. Smethurst. No. 1,294,551; Feb. 18; v. 259; p. 434.
- Humidity control. A. E. Krick. No. 1,315,517; Sept. 9; v. 266; p. 200.
- Humidor. J. F. Fay, Jr. No. 1,291,454; Jan. 14; v. 258; p. 368.
- Humidor. L. A. Smith. No. 1,298,415; Mar. 25; v. 260; p. 660.
- Humidor. J. E. Willert. No. 1,318,939; Oct. 14; v. 267; p. 305.
- Humidor, Pocket. M. G. Hilpert. No. 1,305,467; June 3; v. 263; p. 45.
- Hydrant. C. W. Menige. No. 1,316,799; Sept. 23; v. 266; p. 501.
- Hydrant and coupling therefor. Fire. F. Antonietti. No. 1,303,449; May 13; v. 262; p. 210.



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- Hydrant, Non-freezing. H. T. O'Shields. No. 1,297,001; Mar. 11; v. 260; p. 304.
- Hydration. W. W. Rhodes. No. 1,318,921; Oct. 14; v. 267; p. 302.
- Hydraulic compress. E. L. McGary. No. 1,293,833; Feb. 11; v. 259; p. 231.
- Hydraulic draft-tube. L. F. Moody. No. 1,315,232; Sept. 9; v. 266; p. 149.
- Hydraulic hoist for ash-cans and the like. C. H. Fay. No. 1,314,257; Aug. 26; v. 265; p. 539.
- Hydraulic intensifier. H. Haiss. No. 1,312,322; Aug. 5; v. 265; p. 87.
- Hydraulic intensifier. Steam. T. W. Hand. No. 1,323,590; Dec. 2; v. 269; p. 69.
- Hydraulic intensifier. Steam. T. E. Holmes. No. 1,319,583; Oct. 21; v. 267; p. 454.
- Hydraulic jack. J. L. Malone. No. 1,292,498; Jan. 28; v. 258; p. 671.
- Hydraulic-machine balanced distributor. G. Gomand. No. 1,294,650; Feb. 18; v. 259; p. 457.
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- Hydraulic motor. T. Cadwallader. No. 1,301,225; Apr. 22; v. 261; p. 665.
- Hydraulic oil-pumping mechanism. M. C. Sharpnack. No. 1,322,358; Nov. 18; v. 268; p. 491.
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- Hydraulic press, shears, and the like. T. W. Hand. No. 1,310,795; July 22; v. 264; p. 611.
- Hydraulic sprayer. W. K. Hedrick. No. 1,321,037; Nov. 4; v. 268; p. 128.
- Hydraulic strain-equalizer. W. C. Beckwith. No. 1,311,108; July 22; v. 264; p. 667.
- Hydraulic system and method. G. G. Earl. No. 1,311,861; July 29; v. 264; p. 840.
- Hydraulic systems, Attachment for. F. J. Davis. No. 1,306,582; June 10; v. 263; p. 285.
- Hydraulic transmission. T. E. Brown. No. 1,323,577; Dec. 2; v. 269; p. 67.
- Hydraulic transmission. W. Haddon. (Reissue.) No. 1,4738; Oct. 14; v. 267; p. 324.
- Hydraulic transmission. L. C. Haffner. No. 1,318,143; Oct. 7; v. 267; p. 92.
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- Hydraulic transmission. W. E. Lape. No. 1,294,121; Feb. 11; v. 259; p. 299.
- Hydraulic transmission. J. de Martino and E. Maurey. No. 1,310,945; July 22; v. 264; p. 637.
- Hydraulic transmission. J. E. Peoples. No. 1,313,415; Aug. 19; v. 265; p. 345.
- Hydraulic transmission device. W. Ferris and W. E. Magie. No. 1,308,844; July 8; v. 264; p. 181.
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- Hydroaero-machine. W. S. Burgess. No. 1,294,389; Feb. 18; v. 259; p. 396.
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- Hydroaeroplane, Pusher. P. G. Zimmermann and H. Kleckler. No. 1,296,730; Mar. 11; v. 260; p. 242.
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- Hydroaeroplane, Twin-float. G. H. Curtiss. No. 1,306,749; June 17; v. 263; p. 349.
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- Hydrocarbons, Sulfonation of aromatic. A. Bender. No. 1,301,360; Apr. 22; v. 261; p. 693.
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- Ice-cream cone and package containing same. A. McLaren. No. 1,326,520; Dec. 30; v. 269; p. 779.
- Ice-cream cone and packing same. A. McLaren. No. 1,326,519; Dec. 30; v. 269; p. 779.
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- Ice-cream cones, Machine for making. W. W. Turnbull. No. 1,302,733; May 6; v. 262; p. 48.
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- Ice-cream freezer. E. Thompson. No. 1,294,571; Feb. 18; v. 259; p. 438.
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- Ice-cream molds, Holder for. C. B. Telling. No. 1,303,990; May 20; v. 262; p. 348.
- Ice-cream packer. S. Masters. No. 1,315,143; Sept. 2; v. 266; p. 122.
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- Ice-cream scoop. J. Bluhm. No. 1,296,745; Mar. 11; v. 260; p. 245.
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- Ice-cutting tool. H. L. F. Trebert. No. 1,307,525; June 24; v. 263; p. 524.
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- Ice-making process. G. T. Voorhees. No. 1,322,660; Nov. 25; v. 268; p. 600.
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- Ice-sawing machine. B. B. Phillips and M. Gifford. No. 1,292,041; Jan. 21; v. 258; p. 541.
- Ice-shaving machine. A. Mosca. No. 1,305,484; June 3; v. 263; p. 48.
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- Identification device. H. Coe and C. P. Lawrence. No. 1,320,448; Nov. 4; v. 268; p. 17.
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- Igniting device. J. P. Muller. No. 1,314,419; Aug. 26; v. 265; p. 571.
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- Ignition and load control. W. W. Bucher. No. 1,292,699; Jan. 28; v. 258; p. 721.
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- Ignition device. A. Erickson. No. 1,318,197; Oct. 7; v. 267; p. 103.
- Ignition device. A. Erickson. No. 1,318,198; Oct. 7; v. 267; p. 103.
- Ignition device, Compression-operated. W. F. Stanton. No. 1,324,626; Dec. 9; v. 269; p. 311.
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- Ignition-dynamo. J. G. Zimmerman. No. 1,298,624; Mar. 25; v. 260; p. 705.
- Ignition-dynamo interrupter. C. T. Mason. No. 1,290,624; Jan. 7; v. 258; p. 147.
- Ignition-generator. I. P. Galantin. No. 1,303,469; May 13; v. 262; p. 214.
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- Ignition mechanism. C. Aalborg. No. 1,314,492; Sept. 2; v. 266; p. 3.
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- Ignition system. A. C. De Lorme. No. 1,322,672; Nov. 25; v. 268; p. 602.
- Ignition system. V. A. Fynn. No. 1,321,619; Nov. 11; v. 268; p. 302.
- Ignition system. C. F. Kettering. No. 1,301,851; Apr. 29; v. 261; p. 816.
- Ignition system. G. L. Lang. No. 1,295,528; Feb. 25; v. 259; p. 682.
- Ignition system. S. C. McKeown. No. 1,292,838; Jan. 28; v. 258; p. 753.
- Ignition system. S. C. McKeown. No. 1,305,140; May 27; v. 262; p. 602.
- Ignition system. G. Schumann. No. 1,302,474; Apr. 29; v. 261; p. 935.
- Ignition system. R. Varley. No. 1,314,720; Sept. 2; v. 266; p. 47.
- Ignition system. L. J. Werner. No. 1,304,835; May 27; v. 262; p. 546.
- Ignition system. L. J. Werner. No. 1,304,836; May 27; v. 262; p. 546.
- Ignition system. L. J. Werner. No. 1,323,801; Dec. 2; v. 269; p. 108.
- Ignition systems, Circuit-breaker for. G. B. Maegly. No. 1,306,071; June 10; v. 263; p. 188.
- Ignition systems, Method and apparatus for. C. T. Mason. No. 1,318,220; Oct. 7; v. 267; p. 108.
- Ignition systems, Testing device for. C. H. B. and O. G. Holmes. No. 1,290,995; Jan. 14; v. 258; p. 260.
- Ignition, &c., Transformer-coil for. J. F. Cavanagh. No. 1,312,497; Aug. 5; v. 265; p. 121.
- Illuminated advertising device. A. V. Gullborg. No. 1,308,415; July 1; v. 264; p. 74.
- Illuminating apparatus. E. A. Hawthorne. No. 1,314,589; Sept. 2; v. 266; p. 22.
- Illuminating apparatus. E. A. Hawthorne. No. 1,314,590; Sept. 2; v. 266; p. 22.
- Illuminating appliance. M. Alden. No. 1,311,790; July 29; v. 264; p. 828.
- Illuminating device. F. E. D'Humy. No. 1,324,008; Dec. 2; v. 269; p. 148.
- Illuminating device. E. I. Dodds. No. 1,312,312; Aug. 5; v. 265; p. 85.
- Illuminating device. A. W. Koehler. No. 1,317,023; Sept. 23; v. 266; p. 542.
- Illuminating device for projecting purposes. S. E. Doane. No. 1,315,821; Sept. 9; v. 266; p. 254.
- Illuminating-fixture. W. H. Spencer. No. 1,309,784; July 15; v. 264; p. 394.
- Illuminating means. E. I. Dodds. No. 1,312,310; Aug. 5; v. 265; p. 85.
- Illusion apparatus. J. Lipinski. No. 1,310,707; July 22; v. 264; p. 593.
- Illustrations and reproducing same, Producing. A. F. Giddings. No. 1,295,978; Mar. 4; v. 260; p. 36.
- Image and producing same, Colored. J. I. Crabtree. No. 1,305,962; June 3; v. 263; p. 139.
- Impeller. M. M. Kohn. No. 1,321,378; Nov. 11; v. 268; p. 257.
- Impermeating instrument. L. Chapman. No. 1,324,955; Dec. 16; v. 269; p. 433.
- Implement-hanger. R. H. Ragland. No. 1,314,981; Sept. 2; v. 266; p. 93.
- Implement-tongues, Truck-support for. J. M. Lee and H. G. Halverson. No. 1,303,075; May 6; v. 262; p. 113.
- Impulse-sender. E. V. Hartford. No. 1,316,574; Sept. 23; v. 266; p. 459.
- Impulse-starter, Automatic. J. W. Hermann. No. 1,318,206; Oct. 7; v. 267; p. 104.
- Impulse starting-coupling. H. Tiedemann. No. 1,295,633; Feb. 25; v. 259; p. 707.
- Incandescent lights, Interior reflector for. R. D. Sedano. No. 1,305,837; June 3; v. 263; p. 115.
- Incendary ball. J. Ortiz. No. 1,294,150; Feb. 11; v. 259; p. 305.
- Incendary composition. G. W. C. Webb. No. 1,308,463; July 1; v. 264; p. 83.
- Incendary mass. A. Chanard. No. 1,325,618; Dec. 23; v. 269; p. 574.
- Incinerator. E. H. G. Agier. No. 1,291,350; Jan. 14; v. 258; p. 342.
- Incinerator. C. A. Gibbs. No. 1,305,710; June 3; v. 263; p. 91.
- Incinerator. F. R. Jones. No. 1,311,522; July 29; v. 264; p. 778.
- Incinerator. J. A. McCutcheon. No. 1,299,975; Apr. 8; v. 261; p. 336.
- Incinerator. E. Ruud. No. 1,301,322; Apr. 22; v. 261; p. 685.
- Incinerator. E. N. Stacy. No. 1,315,582; Sept. 9; v. 266; p. 212.
- Incinerator, Sanitary. J. B. Owens. No. 1,303,584; May 13; v. 262; p. 234.
- Incinerating-furnace. M. Hennings. No. 1,318,666; Oct. 14; v. 267; p. 253.
- Inclination-indicator. P. Fischer. No. 1,314,258; Aug. 26; v. 265; p. 539.
- Inclination-indicator. W. H. Nelson. No. 1,302,580; May 6; v. 262; p. 18.
- Inclined screen. L. G. Rowand. No. 1,294,309; Feb. 11; v. 259; p. 342.
- Inclinometer. J. E. Fahs. No. 1,298,484; Mar. 25; v. 260; p. 675.
- Inclinometer. R. Skulina. No. 1,297,504; Mar. 18; v. 260; p. 440.
- Inclinometer and compass combined. T. Roland. No. 1,294,710; Feb. 18; v. 259; p. 470.
- Inclosed switch. K. Knudsen. No. 1,310,163; July 15; v. 264; p. 463.
- Inclosed switch. C. D. Platt. No. 1,322,818; Nov. 25; v. 268; p. 629.
- Incombustible and waterproof product for use in constructions. A. F. Campa y Menendez. No. 1,305,993; June 10; v. 263; p. 174.
- Incrusting and impressing various materials. M. Wolfers. No. 1,316,994; Sept. 23; v. 266; p. 537.
- Incubator. C. M. Heck. No. 1,314,473; Aug. 26; v. 265; p. 580.
- Incubator. B. F. Johnston. No. 1,319,342; Oct. 21; v. 267; p. 407.
- Incubator. T. Kingswood. No. 1,301,136; Apr. 22; v. 261; p. 647.
- Incubator. J. F. MacKay and G. W. Cisco. No. 1,293,495; Feb. 4; v. 259; p. 121.
- Incubator. O. Russell. No. 1,308,995; July 8; v. 264; p. 210.
- Incubator and like heat-regulating means. J. F. MacKay and G. W. Cisco. No. 1,292,343; Jan. 21; v. 258; p. 614.
- Incubator attachment. G. W. Doner. No. 1,297,114; Mar. 11; v. 260; p. 329.
- Incubator egg-tray. W. L. Morse. No. 1,291,081; Jan. 14; v. 258; p. 282.
- Incubator, Electrically-heated. A. de Khotinsky. No. 1,325,834; Dec. 23; v. 269; p. 614.
- Incubator-heating system. L. N. Porter. No. 1,315,154; Sept. 2; v. 266; p. 124.
- Incubator moisture-radiator. R. C. Lewis. No. 1,296,197; Mar. 4; v. 260; p. 88.
- Incubator thermostatic control. E. L. Stewart. No. 1,311,098; July 22; v. 264; p. 666.
- Incubators, Heating, ventilating, and humidifying system for. A. T. Pope. No. 1,303,722; May 13; v. 262; p. 260.
- Incubators, Thermostatic regulator for. H. L. Watson. No. 1,304,635; May 27; v. 262; p. 508.

- Index. S. Anthony. No. 1,298,859; Apr. 1; v. 261; p. 56.
- Index. H. G. Buchan. No. 1,294,043; Feb. 11; v. 259; p. 280.
- Index. J. H. Rand. No. 1,302,848; May 6; v. 262; p. 70.
- Index. J. H. Rand. No. 1,302,849; May 6; v. 262; p. 70.
- Index. J. H. Rand. No. 1,306,026; June 10; v. 263; p. 180.
- Index. J. H. Rand. No. 1,311,771; July 29; v. 264; p. 824.
- Index. J. H. Rand. No. 1,312,206; Aug. 5; v. 265; p. 66.
- Index. J. H. Rand. No. 1,317,642; Sept. 30; v. 266; p. 697.
- Index. J. H. Rand. No. 1,324,467; Dec. 9; v. 269; p. 280.
- Index. G. S. White. No. 1,299,887; Apr. 8; v. 261; p. 317.
- Index and like filing appliance, Card-. G. L. Brown and A. D. Wheeler. No. 1,317,684; Oct. 7; v. 267; p. 5.
- Index and tabulator. C. A. Burner. No. 1,293,690; Feb. 11; v. 259; p. 196.
- Index arrangement. J. Barker. No. 1,308,471; July 1; v. 264; p. 84.
- Index, Card-. J. Barker. No. 1,295,837; Mar. 4; v. 260; p. 4.
- Index-card. J. A. Best. No. 1,311,207; July 29; v. 264; p. 719.
- Index, Card-. J. R. Carroll. No. 1,296,919; Mar. 11; v. 260; p. 286.
- Index-card. J. H. Rand. No. 1,294,947; Feb. 18; v. 259; p. 526.
- Index, Card-. J. H. Rand. No. 1,294,948; Feb. 18; v. 259; p. 526.
- Index-card box. W. A. Ringler. No. 1,325,537; Dec. 23; v. 269; p. 559.
- Index-card guides, Tab-cutting machine for. I. W. Wage-maker. No. 1,297,759; Mar. 18; v. 260; p. 496.
- Index-center. F. C. Dickow. No. 1,321,291; Nov. 11; v. 268; p. 240.
- Index cutter and printer. J. C. Pelletier and D. Rondeau. No. 1,302,083; Apr. 29; v. 261; p. 860.
- Index device. J. H. Rand. No. 1,302,850; May 6; v. 262; p. 71.
- Index device. J. H. Rand. No. 1,317,643; Sept. 30; v. 266; p. 697.
- Index device, Automatic card-. M. D. MacNab. No. 1,317,142; Sept. 23; v. 266; p. 565.
- Index device, Card-. R. C. Russell. No. 1,323,724; Dec. 2; v. 269; p. 94.
- Index equipment. J. T. Quigley. No. 1,314,425; Aug. 26; v. 265; p. 572.
- Index for cocks. P. Mueller and A. C. Schuermann. No. 1,319,891; Oct. 28; v. 267; p. 535.
- Index for cocks. P. Mueller and A. C. Schuermann. No. 1,319,893; Oct. 28; v. 267; p. 535.
- Index holder, Card-. J. W. Wirt. No. 1,297,522; Mar. 18; v. 260; p. 444.
- Index-holding means. P. Mueller and A. C. Schuermann. No. 1,319,892; Oct. 28; v. 267; p. 535.
- Index or display frame. J. H. Rand, Jr. No. 1,318,506; Oct. 14; v. 267; p. 223.
- Index or file. R. D. Hayes. No. 1,304,180; May 20; v. 262; p. 387.
- Index or file. R. D. Hayes. No. 1,308,586; July 1; v. 264; p. 106.
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- Index, Record-. A. West. No. 1,317,114; Sept. 23; v. 266; p. 560.
- Index system, Guide-card for card-. S. Anthony. No. 1,318,041; Oct. 7; v. 267; p. 72.
- Index system, Safety. W. A. Ringler. No. 1,317,392; Sept. 30; v. 266; p. 648.
- Index-tab strip. H. G. Porter. No. 1,326,370; Dec. 30; v. 269; p. 750.
- Index. Visible and expansible card-. J. A. Best. No. 1,300,334; Apr. 15; v. 261; p. 440.
- Indexed sheet. G. P. Wigginton. No. 1,294,585; Feb. 18; v. 259; p. 441.
- Indexing and dividing machine. E. N. Moor. No. 1,311,456; July 29; v. 264; p. 766.
- Indexing and locking means, Turret. A. J. Meyer. No. 1,317,884; Oct. 7; v. 267; p. 42.
- Indexing, Card for. J. A. Best. No. 1,310,468; July 22; v. 264; p. 549.
- Indexing-center. J. Parker. No. 1,295,363; Feb. 25; v. 259; p. 643.
- Indexing, Cross-referencing tab used in systems of. J. B. F. Showalter. No. 1,300,662; Apr. 15; v. 261; p. 509.
- Indexing device. C. B. Ulrich. No. 1,319,816; Oct. 28; v. 267; p. 521.
- Indexing storage device, Self-. J. H. Rand. No. 1,296,851; Mar. 11; v. 260; p. 269.
- Indicating and recording instrument. A. Roesch. No. 1,313,333; Aug. 19; v. 265; p. 330.
- Indicating and recording machine, Zone. H. R. Ohmer, W. L. Crouch, and H. J. Sibley. No. 1,316,175; Sept. 16; v. 266; p. 335.
- Indicating and registering instruments, Spring suspension device for. E. Letord. No. 1,307,685; June 24; v. 263; p. 552.
- Indicating device. Bornett L. Bobroff. No. 1,298,871; Apr. 1; v. 261; p. 58.
- Indicating device. E. Pfister. No. 1,324,924; Dec. 16; v. 269; p. 428.
- Indicating device. W. S. Rogers. No. 1,293,935; Feb. 11; v. 259; p. 254.
- Indicating device. F. D. Uomini. No. 1,294,575; Feb. 18; v. 259; p. 439.
- Indicating instrument. C. F. Bullock. No. 1,304,259; May 20; v. 262; p. 397.
- Indicating instruments, Means for illuminating. H. H. Boyce. No. 1,311,153; July 29; v. 264; p. 709.
- Indicating machine, Peripheral-size. M. W. Howard. 1,325,943; Dec. 23; v. 269; p. 634.
- Indicating means. L. J. Vandermyde. No. 1,293,991; Feb. 11; v. 259; p. 268.
- Indicating means, Number-. H. P. Clausen. No. 1,308,539; July 1; v. 264; p. 97.
- Indicating system. R. F. Spamer. No. 1,294,555; Feb. 18; v. 259; p. 435.
- Indicating the vertical, Device for. J. R. Shean. No. 1,297,921; Mar. 18; v. 260; p. 530.
- Indicating verticality or orientation, Instrument for. J. T. Clarke. No. 1,306,882; June 17; v. 263; p. 373.
- Indicator. See—
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| Aeroplane-indicator.             | Phonograph speed-indicator.       |
| Angularity-indicator.            | tor.                              |
| Arbor-indicator.                 | Piano-keyboard indicator.         |
| Auto-theft indicator.            | Picture-indicator.                |
| Automobile-indicator.            | Pressure-indicator.               |
| Automobile direction-indicator.  | Pump-indicator.                   |
| Autovehicle direction-indicator. | Radiator-indicator.               |
| Car-indicator.                   | Railway-indicator.                |
| Center-indicator.                | Respiration-indicator.            |
| Combustion-indicator.            | Side-force and danger indicator.  |
| Course-indicator.                | Spark-indicator.                  |
| Current-indicator.               | Spark-plug indicator.             |
| Direction-indicator.             | Speed-indicator.                  |
| Distance-indicator.              | Station-indicator.                |
| Engine-indicator.                | Steel-car indicator.              |
| Fire-alarm indicator.            | Steering-wheel indicator.         |
| Flow-indicator.                  | Street-indicator.                 |
| Fluid-flow indicator.            | Street and station indicator.     |
| Fluid-pressure indicator.        | tor.                              |
| Fuel-tank indicator.             | Street-car indicator.             |
| Fuse-indicator.                  | Street-center-crossing indicator. |
| Gas-consumer's indicator.        | Switch-indicator.                 |
| Grade-indicator.                 | Tank-indicator.                   |
| Grade-line indicator.            | Target-indicator.                 |
| Ignition-indicator.              | Temperature-indicator.            |
| Inclination-indicator.           | Thread-lead indicator.            |
| Keyboard-indicator.              | Time and date indicator.          |
| Liquid-level indicator.          | Tire-deflating indicator.         |
| Load-indicator.                  | Tire-pressure indicator.          |
| Lubricant-indicator.             | Vehicle-indicator.                |
| Luminous indicator.              | Vehicle direction-indicator.      |
| Magazine-gun indicator.          | Water-level indicator.            |
| Micrometer-indicator.            | Weather-indicator.                |
| Oil-feed indicator.              | Weight-indicator.                 |
| Ownership-indicator.             | Zone-indicator.                   |
- Indicator. J. H. Brady. No. 1,308,574; July 1; v. 264; p. 103.
- Indicator. G. F. Brigden. No. 1,300,339; Apr. 15; v. 261; p. 441.
- Indicator. D. E. Burger. No. 1,295,113; Feb. 25; v. 259; p. 587.
- Indicator. J. Cartun. No. 1,295,121; Feb. 25; v. 259; p. 589.
- Indicator. W. A. Dorais and J. B. Feise. No. 1,305,255; June 3; v. 263; p. 5.
- Indicator. J. C. Fischer. No. 1,318,369; Oct. 14; v. 267; p. 196.
- Indicator. C. A. Hall. No. 1,291,493; Jan. 14; v. 258; p. 376.
- Indicator. C. O. Hawxhurst. No. 1,290,988; Jan. 14; v. 258; p. 259.
- Indicator. E. G. Hoops. No. 1,321,441; Nov. 11; v. 268; p. 269.
- Indicator. C. J. Keller. No. 1,299,838; Apr. 8; v. 261; p. 307.
- Indicator. A. J. Kempien. No. 1,317,020; Sept. 23; v. 266; p. 542.
- Indicator. R. P. McMahan. No. 1,303,699; May 13; v. 262; p. 256.
- Indicator. H. J. Miles. No. 1,297,888; Mar. 18; v. 260; p. 522.
- Indicator. H. B. Page. No. 1,290,648; Jan. 7; v. 258; p. 153.
- Indicator. I. S. Perkins. No. 1,308,914; July 8; v. 264; p. 194.
- Indicator. G. A. Rohm. No. 1,310,444; July 22; v. 264; p. 545.
- Indicator. W. P. Semon. No. 1,315,425; Sept. 9; v. 266; p. 184.
- Indicator. F. G. Smith. No. 1,301,516; Apr. 22; v. 261; p. 721.
- Indicator. F. Stitzel. No. 1,291,230; Jan. 14; v. 258; p. 315.
- Indicator. H. L. Tanner. No. 1,320,807; Nov. 4; v. 268; p. 84.



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- Indicator and like apparatus, Electrical. J. G. Hooper and F. K. Hobley. No. 1,308,590; July 1; v. 264; p. 106.
- Indicator and mirror, Direction-. C. L. Ray. No. 1,304,370; May 20; v. 262; p. 419.
- Indicator-gage. L. Scusa. No. 1,317,227; Sept. 30; v. 266; p. 617.
- Indicator or recorder, Position. H. Maxim. No. 1,310,200; July 15; v. 264; p. 469.
- Indicator or recorder, Position. H. Maxim. No. 1,310,201; July 15; v. 264; p. 469.
- Indirect and semi-indirect fixture. R. F. Peckham. No. 1,304,363; May 20; v. 262; p. 418.
- Indoxyl, its homologues and their derivatives, Manufacture of. E. A. Bourcart. No. 1,293,680; Feb. 11; v. 259; p. 194.
- Induction apparatus, Stationary. R. H. Chadwick. No. 1,315,815; Sept. 9; v. 266; p. 253.
- Induction apparatus, Stationary. S. E. Johannesen. No. 1,299,953; Apr. 8; v. 261; p. 332.
- Induction-coils, Iron core for. J. S. Möllerhøj. No. 1,318,787; Oct. 14; v. 267; p. 276.
- Induction-furnace. M. Unger. No. 1,326,120; Dec. 23; v. 269; p. 667.
- Induction-motor. B. Elshoff. No. 1,306,532; June 10; v. 263; p. 276.
- Induction-motor. R. H. Pool and G. A. Hughes. No. 1,322,264; Nov. 18; v. 268; p. 473.
- Induction - motor control. W. C. Korthals-Altes. No. 1,301,710; Apr. 22; v. 261; p. 758.
- Induction-motor control. M. Shuttleworth and G. M. Brown. No. 1,304,210; May 20; v. 262; p. 387.
- Induction - motor - speed control. D. C. Prince. No. 1,301,739; Apr. 22; v. 261; p. 764.
- Induction-motor winding. H. E. Trent. No. 1,316,004; Sept. 16; v. 266; p. 304.
- Inductive interferences, Distributing system for minimizing. C. L. Fortescue. No. 1,303,282; May 13; v. 262; p. 181.
- Inductive interference, Means for minimizing. C. F. Scott. No. 1,293,945; Feb. 11; v. 259; p. 256.
- Inductor, Magnetic. J. M. Wilson. No. 1,308,567; July 1; v. 264; p. 102.
- Indurated organic substance and preparing same. W. W. Simonson and L. V. D. Blair. No. 1,309,967; July 15; v. 264; p. 428.
- Industrial chair. J. Salomon. No. 1,302,859; May 6; v. 262; p. 72.
- Infantry-fort. G. Roy. No. 1,299,620; Apr. 8; v. 261; p. 256.
- Inflammable gases, Disposition of. A. Spice. No. 1,302,871; May 6; v. 262; p. 75.
- Inflammable materials, Receptacle for. J. B. Welch. No. 1,325,769; Dec. 23; v. 269; p. 602.
- Inflating-couplings. H. P. Kraft. No. 1,304,576; May 27; v. 262; p. 497.
- Inflating-coupling. M. C. Schweinert and H. P. Kraft. No. 1,304,814; May 27; v. 262; p. 542.
- Ingot-mold. F. M. Bangs. No. 1,302,277; Apr. 29; v. 261; p. 896.
- Ingot-mold. W. G. Mathias. No. 1,290,627; Jan. 7; v. 258; p. 148.
- Ingot-mold, Removable-sided. R. G. Coates. No. 1,313,259; Aug. 19; v. 265; p. 317.
- Ingot-molds, Antipping means for. J. Brunner. No. 1,315,944; Sept. 16; v. 266; p. 292.
- Ingot-molds, Apparatus for teeming. E. Gathmann. No. 1,298,034; Mar. 25; v. 260; p. 580.
- Ingot-molds, Collapsible core for. R. G. Coates. No. 1,313,983; Aug. 26; v. 265; p. 487.
- Ingot-molds, Method of and appliance for stripping ingots from. J. H. Dewhurst. No. 1,323,255; Dec. 2; v. 269; p. 6.
- Ingot-molds, Teeming. E. Gathmann. No. 1,298,035; Mar. 25; v. 260; p. 580.
- Ingot-molds, Teeming. E. Gathmann. No. 1,298,036; Mar. 25; v. 260; p. 580.
- Ingots, Removing cavities in recently-cast. B. Talbot. No. 1,294,193; Feb. 11; v. 259; p. 315.
- Inhaler. S. M. Ford. No. 1,317,013; Sept. 23; v. 266; p. 540.
- Inhaler. F. C. Dormont. No. 1,314,736; Sept. 2; v. 266; p. 49.
- Inhaler and dust-protector. T. F. Feltner. No. 1,297,337; Mar. 18; v. 260; p. 406.
- Inhaler or respirator. J. Reynard. No. 1,311,461; July 29; v. 264; p. 766.
- Inhaling device. A. M. Stewart. No. 1,326,890; Dec. 30; v. 269; p. 849.
- Injection apparatus, Rectal. S. F. Vose. No. 1,324,862; Dec. 16; v. 269; p. 416.
- Injector. H. A. Dreffein. No. 1,321,996; Nov. 18; v. 268; p. 423.
- Injector. S. L. Kneass. No. 1,318,089; Oct. 7; v. 267; p. 81.
- Injector, Grease and oil. F. W. Shields. No. 1,318,928; Oct. 14; v. 267; p. 303.
- Injector, Medicine. J. H. Oesterhaus. No. 1,325,690; Dec. 23; v. 269; p. 589.
- Injectors, Construction of. J. Stott. No. 1,323,116; Nov. 25; v. 268; p. 685.
- Ink. H. Kruse and W. C. Kruse. No. 1,309,292; July 8; v. 264; p. 265.
- Ink-applying device. S. H. Paxton. No. 1,313,833; Aug. 19; v. 265; p. 424.
- Ink-bottle and inkwell, Combination. J. M. Smith. No. 1,322,144; Nov. 18; v. 268; p. 450.
- Ink-bottle stopper. F. H. Silverthorne. No. 1,314,489; Aug. 26; v. 265; p. 583.
- Ink, Composition for preventing smut of printing-. P. S. Byrne. No. 1,316,531; Sept. 16; v. 266; p. 403.
- Ink-eraser, Fibrous. J. W. Greenbowe. No. 1,317,972; Oct. 7; v. 267; p. 59.
- Ink-fountain construction. H. Lange. No. 1,291,559; Jan. 14; v. 258; p. 391.
- Ink, Indelible. L. W. Luscher. No. 1,320,631; Nov. 4; v. 268; p. 51.
- Ink-recorder, Electrically-operated. L. Williams. No. 1,306,985; June 17; v. 263; p. 392.
- Ink-ribbon feed and similar reversing mechanism. W. H. Browning. No. 1,303,159; May 6; v. 262; p. 130.
- Ink, Safety writing-. E. E. Schmidt. No. 1,296,858; Mar. 11; v. 260; p. 271.
- Ink, Solid. K. Akashi. No. 1,325,971; Dec. 23; v. 269; p. 639.
- Ink-well. H. Smith. No. 1,308,817; July 8; v. 264; p. 176.
- Ink-well. M. Wyka. No. 1,300,322; Apr. 15; v. 261; p. 438.
- Ink-well and cover therefor. C. E. Birch. No. 1,305,869; June 3; v. 263; p. 121.
- Ink-well and other receptacle cover. A. Teye. No. 1,296,232; Mar. 4; v. 260; p. 95.
- Ink-well holder. M. H. Brown. No. 1,293,019; Feb. 4; v. 259; p. 11.
- Ink-well, Self-closing. R. D. Jones. No. 1,298,219; Mar. 25; v. 260; p. 619.
- Ink-well, Self-closing. E. Pool. No. 1,292,872; Jan. 28; v. 258; p. 761.
- Inking machine, Edge. P. R. Glass. No. 1,311,164; July 29; v. 264; p. 711.
- Inking machine, Ribbon-. E. Kirkbride. No. 1,310,625; July 22; v. 264; p. 578.
- Inking machine, Ribbon-. L. A. Phillips. No. 1,316,388; Sept. 16; v. 266; p. 375.
- Inking mechanism. J. J. Walser. No. 1,313,433; Aug. 19; v. 265; p. 349.
- Inking-pad. W. E. Clarke. No. 1,305,444; June 3; v. 263; p. 40.
- Inking-pad. C. H. Payne. No. 1,323,487; Dec. 2; v. 269; p. 50.
- Inking-roller. J. Brown. No. 1,292,244; Jan. 21; v. 258; p. 591.
- Inkstand. S. Keltonik. No. 1,312,184; Aug. 5; v. 265; p. 62.
- Inkstand. O. N. Linde and A. Linder. No. 1,297,877; Mar. 18; v. 260; p. 520.
- Inkstand. F. A. Weeks. No. 1,300,528; Apr. 15; v. 261; p. 482.
- Inkstand. F. A. Weeks. No. 1,325,821; Dec. 23; v. 269; p. 611.
- Inkstand, Sealed safety fountain-. J. O. Fowler. No. 1,303,468; May 13; v. 262; p. 213.
- Inkwell. E. H. Oakman. No. 1,320,903; Nov. 4; v. 268; p. 103.
- Inkwell. E. H. Oakman. No. 1,325,408; Dec. 16; v. 269; p. 517.
- Inkwell. H. Spain. No. 1,316,116; Sept. 16; v. 266; p. 323.
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- Inner tube. F. E. Bessler. No. 1,304,147; May 20; v. 262; p. 375.
- Inner tube, Butt end. J. F. Hower. No. 1,317,976; Oct. 7; v. 267; p. 60.
- Inner-tube deflater. R. McClenathan. No. 1,313,603; Aug. 19; v. 265; p. 381.
- Inner-tube substitute. D. C. Roberts. No. 1,295,604; Feb. 25; v. 259; p. 700.
- Innersole. F. E. Fernald and H. Y. Nute. No. 1,324,390; Dec. 9; v. 269; p. 265.
- Innersole, arch-support, shoe-cushion, and ventilator. J. T. Hay. No. 1,317,161; Sept. 30; v. 266; p. 605.
- Innersoles, Sheet material for. G. A. Spear. No. 1,312,758; Aug. 12; v. 265; p. 202.
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- Insect-catcher. B. R. Jolly. No. 1,308,497; July 1; v. 264; p. 89.
- Insect catching and killing device. J. C. and W. A. Jewett. No. 1,308,952; July 8; v. 264; p. 201.
- Insect-destroyer. G. D. Krumlaw. No. 1,299,580; Apr. 8; v. 261; p. 247.
- Insect-destroyer. F. Rea. No. 1,302,972; May 6; v. 262; p. 84.
- Insect-destroyer. J. Schuler. No. 1,314,367; Aug. 26; v. 265; p. 560.
- Insect-destroyer. D. D. Smith. No. 1,302,095; Apr. 29; v. 261; p. 862.
- Insect-destroying device. A. C. Menge. No. 1,299,372; Apr. 1; v. 261; p. 171.
- Insect-exterminator. J. B. Black. No. 1,326,320; Dec. 30; v. 269; p. 741.

- Insect-exterminator. J. H. Brackin. No. 1,294,036; Feb. 11; v. 259; p. 279.
- Insect-proof attachment for furniture and other articles. J. Kruse. No. 1,305,553; June 3; v. 263; p. 61.
- Insect-repellent, Rendering wood. J. Kruse. No. 1,312,634; Aug. 12; v. 265; p. 178.
- Insect-swatter. R. L. Horsley. No. 1,290,998; Jan. 14; v. 258; p. 261.
- Insect-trap. C. W. Boyle. No. 1,312,096; Aug. 5; v. 265; p. 46.
- Insect-trap. A. J. Hardin. No. 1,313,986; Aug. 26; v. 265; p. 487.
- Insect-trap. J. G. Reed. No. 1,295,207; Feb. 28; v. 259; p. 608.
- Insect-trap. E. H. Siegler. No. 1,293,563; Feb. 4; v. 259; p. 137.
- Insect-trap. H. G. Snead. No. 1,304,397; May 20; v. 262; p. 424.
- Insect-trap. W. H. Stanley. No. 1,294,184; Feb. 11; v. 259; p. 313.
- Insect trap and destroyer. J. R. Carlson. No. 1,294,615; Feb. 18; v. 259; p. 449.
- Insecticide. H. A. Richter. No. 1,324,848; Dec. 16; v. 269; p. 414.
- Insecticide and fungicide. G. E. Sanders. No. 1,324,175; Dec. 9; v. 269; p. 223.
- Insecticide and fungicide, Combined. P. R. Jones. No. 1,291,013; Jan. 14; v. 258; p. 264.
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- Insole. E. N. Chandler. No. 1,311,154; July 29; v. 264; p. 709.
- Insole. W. Fowler. No. 1,317,968; Oct. 7; v. 267; p. 59.
- Insole. F. R. Keith. No. 1,297,359; Mar. 18; v. 260; p. 410.
- Insole-heel-seat-smoothing machine. B. T. Leveque. No. 1,303,926; May 20; v. 262; p. 336.
- Insole lining or pad. J. E. Toscan. No. 1,304,826; May 27; v. 262; p. 544.
- Insole-making machine. C. W. Moffatt. No. 1,298,371; Mar. 25; v. 260; p. 650.
- Insole, Pneumatic. B. A. Spinney. No. 1,304,915; May 27; v. 262; p. 560.
- Insole-preparing machine. J. B. Hadaway. No. 1,293,763; Feb. 11; v. 259; p. 214.
- Insoles, Machine for trimming. W. Fowler. No. 1,303,283; May 13; v. 262; p. 181.
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- Instrument, Spacing. F. L. Dobbryn. No. 1,307,188; June 17; v. 263; p. 428.
- Instrument-strings under tension, Device for maintaining. G. T. Bachman. No. 1,298,862; Apr. 1; v. 261; p. 56.
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- Insulating and waterproofing composition for electrical appliances. G. Tucker. No. 1,311,301; July 29; v. 264; p. 736.
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- Insulation, Testing of. S. Evershed. No. 1,296,176; Mar. 4; v. 260; p. 83.
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- Internal-combustion engine. L. C. Jackson. No. 1,314,487; Aug. 26; v. 265; p. 583.
- Internal-combustion engine. I. Jayne. No. 1,313,634; Aug. 19; v. 265; p. 387.
- Internal-combustion engine. E. G. Johanson. No. 1,306,699; June 17; v. 263; p. 340.
- Internal-combustion engine. H. V. J. Jouffret. No. 1,318,209; Oct. 7; v. 267; p. 105.
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- Internal-combustion engine. O. H. Kennedy. No. 1,291,917; Jan. 21; v. 258; p. 510.
- Internal-combustion engine. C. H. Kenneweg. No. 1,323,366; Dec. 2; v. 269; p. 27.
- Internal-combustion engine. R. P. Kerr. No. 1,316,245; Sept. 16; v. 266; p. 348.
- Internal-combustion engine. T. W. Kloman. No. 1,319,398; Oct. 21; v. 267; p. 418.
- Internal-combustion engine. F. L. Kutebenreiter. No. 1,308,499; July 1; v. 264; p. 89.
- Internal-combustion engine. E. A. Lambert and S. G. Wenman-Adie. No. 1,323,873; Dec. 2; v. 269; p. 122.
- Internal-combustion engine. P. A. Lawrence. (Reissue.) No. 14,766; Dec. 9; v. 269; p. 338.
- Internal-combustion engine. T. A. N. Leadbetter, A. L. K. Gildchrist and W. H. Tate. No. 1,301,141; Apr. 22; v. 261; p. 648.
- Internal-combustion engine. F. H. Leinweber. No. 1,296,672; Mar. 11; v. 260; p. 228.
- Internal-combustion engine. W. A. Loudon. No. 1,316,730; Sept. 23; v. 266; p. 489.
- Internal-combustion engine. W. W. Macfarren. No. 1,325,305; Dec. 16; v. 269; p. 499.
- Internal-combustion engine. G. P. Mallory. No. 1,315,230; Sept. 9; v. 266; p. 148.
- Internal-combustion engine. W. Matthewman. No. 1,317,091; Sept. 23; v. 266; p. 555.
- Internal-combustion engine. E. E. McCollum. No. 1,290,263; Jan. 7; v. 258; p. 60.

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- Internal-combustion engine. J. H. K. McCollum. No. 1,310,667; July 22; v. 264; p. 586.
- Internal-combustion engine. W. W. McElrath, Jr. No. 1,319,100; Oct. 21; v. 267; p. 361.
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- Internal-combustion engine. J. A. Miller. No. 1,310,668; July 22; v. 264; p. 586.
- Internal-combustion engine. P. Mohrdieck. No. 1,306,496; June 10; v. 263; p. 270.
- Internal-combustion engine. H. E. Montague. No. 1,298,079; Mar. 25; v. 260; p. 588.
- Internal-combustion engine. A. G. L. and H. C. W. Neighbour. No. 1,290,297; Jan. 7; v. 258; p. 69.
- Internal-combustion engine. W. Nichol. No. 1,323,785; Dec. 2; v. 269; p. 105.
- Internal-combustion engine. E. F. O'Haver. No. 1,305,155; May 27; v. 262; p. 605.
- Internal-combustion engine. O. F. Opperman. No. 1,292,634; Jan. 28; v. 258; p. 706.
- Internal-combustion engine. A. E. Osborn. No. 1,315,192; Sept. 2; v. 266; p. 131.
- Internal-combustion engine. A. E. Osborn. No. 1,315,193; Sept. 2; v. 266; p. 131.
- Internal-combustion engine. P. Ostenberg. No. 1,323,545; Dec. 2; v. 269; p. 61.
- Internal-combustion engine. V. G. Ottewell. No. 1,313,414; Aug. 19; v. 265; p. 345.
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- Internal-combustion engine. R. B. Owen. No. 1,297,897; Mar. 18; v. 260; p. 525.
- Internal-combustion engine. O. S. Payzant. No. 1,306,618; June 10; v. 263; p. 292.
- Internal-combustion engine. R. F. Piatt. No. 1,299,774; Apr. 8; v. 261; p. 293.
- Internal-combustion engine. L. R. Poschadel. No. 1,316,864; Sept. 23; v. 266; p. 512.
- Internal-combustion engine. A. A. Proffitt. No. 1,298,256; Mar. 25; v. 260; p. 627.
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- Internal-combustion engine. H. R. Ricardo. No. 1,315,037; Sept. 2; v. 266; p. 103.
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- Internal-combustion engine. R. F. Roehl. No. 1,321,128; Nov. 11; v. 268; p. 208.
- Internal-combustion engine. F. Rombach. No. 1,308,373; July 1; v. 264; p. 67.
- Internal-combustion engine. A. M. Rossman. No. 1,306,777; June 17; v. 263; p. 354.
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- Internal-combustion engine. H. J. Sallee. No. 1,318,601; Oct. 14; v. 267; p. 241.
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- Internal-combustion engine. B. D. Scott and W. H. Tate. No. 1,295,803; Feb. 25; v. 259; p. 746.
- Internal-combustion engine. J. Shaw. No. 1,292,103; Jan. 21; v. 258; p. 557.
- Internal-combustion engine. J. Shaw. No. 1,313,608; Aug. 19; v. 265; p. 382.
- Internal-combustion engine. J. Shaw. No. 1,314,907; Sept. 2; v. 266; p. 80.
- Internal-combustion engine. A. W. Shepherd. No. 1,312,585; Aug. 12; v. 265; p. 169.
- Internal-combustion engine. F. D. Shepherd. No. 1,317,599; Sept. 30; v. 266; p. 689.
- Internal-combustion engine. H. E. and C. E. Sherman. No. 1,310,301; July 15; v. 264; p. 487.
- Internal-combustion engine. E. K. Shoulitz. No. 1,291,200; Jan. 14; v. 258; p. 308.
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- Internal-combustion engine. G. J. Spohrer. No. 1,308,123; July 1; v. 264; p. 22.
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- Internal-combustion engine. W. J. Still. No. 1,306,979; June 17; v. 263; p. 391.
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- Internal-combustion engine. T. C. Stone. No. 1,313,135; Aug. 12; v. 265; p. 277.
- Internal-combustion engine. R. F. Taylor. No. 1,305,416; June 3; v. 263; p. 35.
- Internal-combustion engine. C. Thomas. No. 1,313,762; Aug. 19; v. 265; p. 411.
- Internal-combustion engine. T. Thornycroft. No. 1,308,562; July 1; v. 264; p. 101.
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- Internal-combustion engine. F. I. Tone. No. 1,309,919; July 15; v. 264; p. 419.
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- Internal-combustion engine. T. J. Wilbee. No. 1,293,279; Feb. 4; v. 259; p. 71.
- Internal-combustion engine. A. H. Wilks. No. 1,313,569; Aug. 19; v. 265; p. 375.
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- Internal-combustion engine. M. R. Wolfard. No. 1,305,578; June 3; v. 263; p. 66.
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- Internal-combustion engine. P. C. Woods. No. 1,323,139; Nov. 25; v. 268; p. 689.
- Internal-combustion engine. E. J. and J. F. Woolf. No. 1,292,942; Jan. 28; v. 258; p. 777.
- Internal-combustion engine. E. Workman. No. 1,292,943; Jan. 28; v. 258; p. 778.
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- Internal-combustion engine, Rotary. F. J. Klingler. No. 1,324,506; Dec. 9; v. 269; p. 288.
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- Internal-combustion motor. E. Laberge. No. 1,294,487; Feb. 18; v. 259; p. 419.
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- Internal-combustion turbine. T. H. Brockman. No. 1,315,906; Sept. 9; v. 266; p. 271.
- Internal-combustion turbine-engine. R. Esnault-Pelterie. No. 1,312,899; Aug. 12; v. 265; p. 229.
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- Internal-expanding brake. J. O. Michaud. No. 1,313,317; Aug. 19; v. 265; p. 327.
- Internal expansion-brake. T. R. Morse. No. 1,292,849; Jan. 28; v. 258; p. 755.
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- Invalid-carrier. H. Vizents. No. 1,293,996; Feb. 11; v. 259; p. 270.
- Invalid-chair, Self-propelling. J. Czechowicz. No. 1,297,449; Mar. 18; v. 260; p. 429.
- Invalid-lifter. C. A. Greene. No. 1,299,933; Apr. 8; v. 261; p. 327.
- Invalid lifter and conveyer. A. M. Tanner. No. 1,313,428; Aug. 19; v. 265; p. 348.
- Invalid-support. H. A. Denney. No. 1,315,097; Sept. 2; v. 266; p. 114.
- Invalid-table. T. W. Davies. No. 1,310,284; July 15; v. 264; p. 484.
- Invalid-table. N. Stuchlak. No. 1,318,703; Oct. 14; v. 267; p. 260.
- Invalid's chair. A. Dutmer. No. 1,317,360; Sept. 30; v. 266; p. 642.
- Invisible pin. D. L. Mantle. No. 1,321,534; Nov. 11; v. 268; p. 285.
- Involute-curve-generating machine. O. G. Simmons. No. 1,326,696; Dec. 30; v. 269; p. 812.
- Iodin and other chemical products from seaweeds by dry distillation, Extracting. J. A. W. Bredenberg and E. G. Cron. No. 1,305,058; May 27; v. 262; p. 588.
- Iodin, Purifying. R. M. Carter. No. 1,324,761; Dec. 9; v. 269; p. 836.
- Iris, Elliptic. F. E. Garbutt. No. 1,302,359; Apr. 29; v. 261; p. 912.
- Iron: See—  
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 Chair-iron. Sled-iron.  
 Curling-iron. Soldering-iron.  
 Electric iron. Tailor's steaming-iron.  
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- Iron. E. E. Garlito. No. 1,319,524; Oct. 21; v. 267; p. 442.
- Iron alloys, Producing. J. E. Johnson, Jr. No. 1,318,764; Oct. 14; v. 267; p. 271.
- Iron and other metals occurring in compound ores, Separating the oxids of. J. C. Adell. No. 1,318,431; Oct. 14; v. 267; p. 208.
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- Iron and steel, Electrolytic cleaning of. Q. Marino. No. 1,324,317; Dec. 9; v. 269; p. 251.
- Iron and steel, Manufacture of. G. A. Jarvis. No. 1,303,799; May 13; v. 262; p. 274.
- Iron and steel, Removing scale oxid from the surface of. W. Feenie and W. W. Rhodes. No. 1,326,585; Dec. 30; v. 269; p. 792.
- Iron and steel, Rust-proofing. R. D. Colquhoun. No. 1,311,319; July 29; v. 264; p. 740.
- Iron and steel, Solution for rust-proofing articles of. W. H. Allen. No. 1,291,352; Jan. 14; v. 258; p. 343.
- Iron and steel turnings, scrap, &c., Melting of. R. A. Hadfield. No. 1,326,861; Dec. 30; v. 269; p. 843.
- Iron, Apparatus for holding and feeding angle. K. B. Orvig. No. 1,315,392; Sept. 9; v. 266; p. 178.
- Iron castings, Production of malleable. F. Perry. No. 1,319,612; Oct. 21; v. 267; p. 459.
- Iron for vehicle-bodies and buckle therefor, Body-. C. L. Bair. No. 1,290,483; Jan. 7; v. 258; p. 114.
- Iron-free alum, Preparing. F. Laist, F. F. Frick, and R. S. Oliver. No. 1,300,418; Apr. 15; v. 261; p. 458.
- Iron from its ore, Extracting. C. C. Jones. No. 1,319,589; Oct. 21; v. 237; p. 455.
- Iron or steel, Alloying zinc with. B. F. Dimm. No. 1,307,853; June 24; v. 263; p. 583.
- Iron or steel for prevention of oxidation or rusting, Treatment of. L. S. Chadwick and M. Resek. No. 1,320,734; Nov. 4; v. 268; p. 70.
- Iron or steel for the prevention of oxidation or rusting, Treatment of. L. S. Chadwick and M. Resek. No. 1,317,351; Sept. 30; v. 266; p. 640.
- Iron or steel or alloys thereof, Means to be employed in electric welding of. A. C. Hyde. No. 1,323,768; Dec. 2; v. 269; p. 102.
- Iron or steel or other articles, Treatment of. H. C. Baines. No. 1,303,627; May 13; v. 262; p. 242.
- Iron ore, Briquetting finely-pulverized. J. R. H. A. Lamerhirt. No. 1,315,315; Sept. 9; v. 266; p. 164.
- Iron ores preparatory to magnetic separation, Apparatus for treating. T. S. Maffitt. No. 1,295,780; Feb. 25; v. 259; p. 740.
- Iron oxid, Reducing. H. W. Lash. No. 1,296,973; Mar. 11; v. 260; p. 298.
- Iron pipe and coupling therefor, Cast. J. T. Harnett. No. 1,299,934; Apr. 8; v. 261; p. 327.
- Iron pipes *in situ*, Apparatus for cutting. R. P. Stewart. No. 1,301,759; Apr. 22; v. 261; p. 768.
- Iron, Preparation of pure. R. K. Muench. No. 1,292,630; Jan. 28; v. 258; p. 705.
- Iron, Producing high-phosphorus pig-. T. C. Meadows. No. 1,322,038; Nov. 18; v. 268; p. 431.
- Iron, Refining cast-. H. Barnes. No. 1,322,516; Nov. 25; v. 268; p. 573.
- Iron, Removing the coating from galvanized. E. H. Kramer. No. 1,315,779; Sept. 9; v. 266; p. 246.
- Iron sheets by electrical deposition, Producing. J. H. Procter. No. 1,300,296; Apr. 15; v. 261; p. 432.

- Iron sponge into solid iron, Transforming. A. Sinding-Larsen. No. 1,306,928; June 17; v. 263; p. 382.
- Iron sponge, Manufacture of. G. Gröndal. No. 1,322,430; Nov. 18; v. 268; p. 505.
- Iron-stand. D. Ossry. No. 1,312,349; Aug. 5; v. 265; p. 92.
- Iron, Treating. W. J. Diederichs. No. 1,325,626; Dec. 23; v. 269; p. 575.
- Iron-working machine, Universal. G. F. Robbins. No. 1,303,394; May 13; v. 262; p. 200.
- Irons, Supporting-stand for tailors' pressing-. T. Curran and J. L. Morton. No. 1,319,949; Oct. 28; v. 267; p. 546.
- Ironing-board. R. C. Alexander. No. 1,318,195; Oct. 7; v. 267; p. 102.
- Ironing-board. W. H. French. No. 1,320,850; Nov. 4; v. 268; p. 92.
- Ironing-board. H. G. Grosse. No. 1,291,484; Jan. 14; v. 258; p. 374.
- Ironing-board. S. R. Haines. No. 1,306,893; June 17; v. 263; p. 375.
- Ironing-board. T. McCullough. No. 1,314,411; Aug. 26; v. 265; p. 569.
- Ironing-board. J. Mitchell. No. 1,324,611; Dec. 9; v. 269; p. 308.
- Ironing-board. E. F. Poland. No. 1,301,874; Apr. 29; v. 261; p. 821.
- Ironing-board. E. W. Seckleman. No. 1,324,931; Dec. 16; v. 269; p. 429.
- Ironing-board. A. M. Springer. No. 1,292,910; Jan. 28; v. 258; p. 770.
- Ironing-board cover. F. S. Perry. No. 1,304,802; May 27; v. 262; p. 540.
- Ironing-board, Folding. W. N. Miller. No. 1,300,993; Apr. 15; v. 261; p. 580.
- Ironing-board stand, Foldable. J. H. Whitaker. No. 1,310,490; July 22; v. 264; p. 553.
- Ironing-board, step-ladder, and drying-rack, Combination. M. J. Shackman. No. 1,302,862; May 6; v. 262; p. 73.
- Ironing-board, work-bench, or the like. D. Beaupre. No. 1,314,940; Sept. 2; v. 266; p. 85.
- Ironing-pad. H. B. Metzger. No. 1,321,116; Nov. 11; v. 268; p. 206.
- Ironing-table. H. W. Hille. No. 1,322,441; Nov. 18; v. 268; p. 507.
- Ironing-table. C. D. Seys. No. 1,292,380; Jan. 21; v. 258; p. 623.
- Ironing-table, Combination. W. H. Lloyd. No. 1,319,595; Oct. 21; v. 267; p. 456.
- Irregularly-shaped stampings, Apparatus for making. C. B. Weaver. No. 1,307,170; June 17; v. 263; p. 425.
- Irrigating apparatus. D. C. Abbott. No. 1,294,749; Feb. 18; v. 259; p. 480.
- Irrigating apparatus. J. L. Pennington. No. 1,300,866; Apr. 15; v. 261; p. 552.
- Irrigating apparatus. S. Stephens. No. 1,309,225; July 8; v. 264; p. 252.
- Irrigating device. T. H. Dailey. No. 1,295,706; Feb. 25; v. 259; p. 724.
- Irrigating-stand, Portable. F. B. Truax. No. 1,290,809; Jan. 7; v. 258; p. 191.
- Isochronizing and synchronizing system. P. M. Rainey. No. 1,292,048; Jan. 21; v. 258; p. 543.
- Isoprene, Producing. O. Graul, G. Hanschke, and F. Webel. No. 1,298,929; Apr. 1; v. 261; p. 72.
- Jack: See—
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|-------------------------------|---------------------------|
| Air and hand power jack.      | Pneumatic jack.           |
| Air lifting-jack.             | Pole-jack.                |
| Automobile-jack.              | Power-jack.               |
| Automobile lifting-jack.      | Pump-jack.                |
| Bolting-up jack.              | Roof-jack.                |
| Casing-jack.                  | Screw-jack.               |
| Container-jack.               | Self-lifting jack.        |
| Fluid-pressure jack.          | Smoke-jack.               |
| Fluid-pressure-operated jack. | Stair-jack.               |
| Hydraulic jack.               | Supporting-jack.          |
| Lifting-jack.                 | Tie-rod-withdrawing jack. |
| Lifting and power jack.       | Track-lining jack.        |
| Motor-vehicle jack.           | Vehicle-jack.             |
| Pipe-jack.                    | Wagon-jack.               |
- Jack. H. I. Benedict. No. 1,324,721; Dec. 9; v. 269; p. 328.
- Jack. W. H. Firebaugh, Jr. No. 1,295,468; Feb. 25; v. 259; p. 668.
- Jack. H. H. Goetter and J. Trupke. No. 1,309,755; July 15; v. 264; p. 389.
- Jack. H. S. Jillson and W. H. Sweeney. No. 1,326,451; Dec. 30; v. 269; p. 766.
- Jack. J. C. Kopf. No. 1,317,878; Oct. 7; v. 267; p. 41.
- Jack. E. J. Leman. No. 1,310,499; July 22; v. 264; p. 555.
- Jack. J. Malicki. No. 1,325,951; Dec. 23; v. 269; p. 635.
- Jack. J. H. Pope. No. 1,313,909; Aug. 26; v. 265; p. 472.
- Jack. H. D. Roy. No. 1,299,781; Apr. 8; v. 261; p. 294.
- Jack. D. G. Roos. No. 1,324,851; Dec. 16; v. 269; p. 414.
- Jack. J. B. Rose. No. 1,317,320; Sept. 30; v. 266; p. 634.
- Jack. J. D. Singleton. No. 1,310,637; July 22; v. 264; p. 581.
- Jack. L. Willour. (Reissue.) No. 14,605; Mar. 4; v. 260; p. 176.
- Jack. C. S. Wright. No. 1,309,973; July 15; v. 264; p. 429.
- Jacket, Foundry slip-. W. W. Peck. No. 1,291,108; Jan. 14; v. 258; p. 288.
- Jacketed can. B. K. Ford. No. 1,306,808; June 17; v. 263; p. 359.
- Jacquard. J. L. Patterson and L. S. Cannon. No. 1,299,771; Apr. 8; v. 261; p. 292.
- Jacquard-cards, Apparatus for regulating automatically the cutting of holes in. A. G. Damm. No. 1,293,356; Feb. 4; v. 259; p. 89.
- Jacquard-machine. F. Duchacek. No. 1,312,779; Aug. 12; v. 265; p. 207.
- Jacquard-machine, Double-lift. E. Haning. No. 1,299,461; Apr. 8; v. 261; p. 221.
- Jamb-plate. A. F. Erickson. No. 1,321,514; Nov. 11; v. 268; p. 282.
- Japan and making same, Non-inflammable. W. P. Davey. No. 1,294,422; Feb. 18; v. 259; p. 404.
- Japan making and applying. W. P. Davey. No. 1,294,627; Feb. 18; v. 259; p. 451.
- Jar: See—
- |               |                     |
|---------------|---------------------|
| Mucilage-jar. | Preserve, &c., jar. |
| Museum-jar.   | Shellac-jar.        |
| Preserve-jar. |                     |
- Jar and closure for same. P. Ellis. No. 1,321,425; Nov. 11; v. 268; p. 266.
- Jar and dipper for serving crushed fruit or the like. R. Farles. (Reissue.) No. 14,631; July 8; v. 264; p. 324.
- Jar and other receptacle. C. W. Kettler. No. 1,307,363; June 24; v. 263; p. 494.
- Jar-cap handle. J. L. Tabour. No. 1,296,339; Mar. 4; v. 260; p. 118.
- Jar-caps, Means for retaining gaskets in. E. D. Schmitt. No. 1,312,581; Aug. 12; v. 265; p. 169.
- Jar-closing means. D. Murphy. No. 1,292,356; Jan. 21; v. 258; p. 618.
- Jar-closure. C. Hammer. No. 1,316,231; Sept. 16; v. 266; p. 345.
- Jar-closure. A. H. Kippenberg. No. 1,300,736; Apr. 15; v. 261; p. 525.
- Jar-closure. L. L. Murphy. No. 1,294,142; Feb. 11; v. 259; p. 303.
- Jar-closure. E. Norton. No. 1,308,606; July 1; v. 264; p. 109.
- Jar-closure. E. C. Ries. No. 1,323,723; Dec. 2; v. 269; p. 94.
- Jar-closure. T. L. Taliaferro. No. 1,300,896; Apr. 15; v. 261; p. 559.
- Jar-closure. T. L. Taliaferro. No. 1,325,056; Dec. 16; v. 269; p. 452.
- Jar-closure. H. Zierlein. No. 1,321,695; Nov. 11; v. 268; p. 316.
- Jar-closure fastener. J. W. Limbert. No. 1,322,125; Nov. 18; v. 268; p. 447.
- Jar-closure, Scallop. C. Hammer. No. 1,293,088; Feb. 4; v. 259; p. 27.
- Jar cover, Fruit-. C. Hunt. No. 1,318,671. Oct. 14; v. 267; p. 254.
- Jar-cover, holder. A. J. Holdsworth. No. 1,296,959; Mar. 11; v. 260; p. 294.
- Jar-holder. R. A. Parent. No. 1,301,309; Apr. 22; v. 261; p. 682.
- Jar-lid lifter. C. V. Smock. No. 1,320,102; Oct. 28; v. 267; p. 574.
- Jar-lifter. K. Heitler. No. 1,296,389; Mar. 4; v. 260; p. 130.
- Jar-lifter. J. W. Prior. No. 1,300,648; Apr. 15; v. 261; p. 506.
- Jar-lifter. R. J. Thurston. No. 1,304,717; May 27; v. 262; p. 524.
- Jar-opener. E. W. Carpenter. No. 1,324,494; Dec. 9; v. 269; p. 285.
- Jar-opener. J. C. Armor. No. 1,321,700; Nov. 11; v. 268; p. 317.
- Jar or receptacle closure. J. C. Nichol. No. 1,311,288; July 29; v. 264; p. 734.
- Jar or tumbler closure. W. A. Lorenz. No. 1,322,913; Nov. 25; v. 268; p. 646.
- Jar-top fastening. C. F. Thatcher. No. 1,292,920; Jan. 28; v. 258; p. 772.
- Jars, Attachment for applying and removing caps from. J. C. Durham. No. 1,309,399; July 8; v. 264; p. 285.
- Jars, bottles, &c., Closure for. A. and H. Ingram. No. 1,324,254; Dec. 9; v. 269; p. 238.
- Jars, Lifting-tongs for. H. C. Smith. No. 1,313,752; Aug. 19; v. 265; p. 409.
- Jars of preserving apparatus, Device for pressing down the covers of preserving. C. W. Appelberg. No. 1,322,080; Nov. 18; v. 268; p. 438.
- Jars, Process closure for. C. Hammer. No. 1,321,205; Nov. 11; v. 268; p. 223.
- Jardiniere-stand. P. J. Mutch. No. 1,300,635; Apr. 15; v. 261; p. 503.
- Jarring-machine. D. C. Coble. No. 1,323,677; Dec. 2; v. 269; p. 85.
- Jaw-crusher. R. C. Newhouse. No. 1,309,807; July 15; v. 264; p. 398.



## Alphabetical list of inventions—Continued.

- Jaw-crusher frame. W. B. Easton and D. Cole. No. 1,298,188; Mar. 25; v. 260; p. 613.
- Jet apparatus. W. B. Eddison. No. 1,295,086; Feb. 18; v. 259; p. 557.
- Jewel. H. Gilsey. No. 1,308,011; June 24; v. 263; p. 613.
- Jewel-blank-shaping machine. A. Gabus. No. 1,302,907; May 6; v. 262; p. 82.
- Jewel-making device. L. B. Miller. No. 1,298,540; Mar. 25; v. 260; p. 688.
- Jewel-making machine. A. Gabus. No. 1,302,908; May 6; v. 262; p. 82.
- Jewels, Instrument for handling. F. Cheney. No. 1,305,881; June 3; v. 263; p. 123.
- Jeweler's tool chuck and handle. A. F. Robbins. No. 1,306,354; June 10; v. 263; p. 244.
- Jewelry. T. W. Cresce. No. 1,325,315; Dec. 16; v. 269; p. 501.
- Jewelry. A. Shiman. No. 1,305,017; May 27; v. 262; p. 579.
- Jewelry adapted to count, Article of. H. C. Silver. No. 1,324,524; Dec. 9; v. 269; p. 291.
- Jewelry, Article of. L. Boldysar. No. 1,319,201; Oct. 21; v. 267; p. 381.
- Jewelry-case having interchangeable cover. S. D. Hendry. No. 1,305,241; May 27; v. 262; p. 622.
- Jewelry-clasp. S. Heller. No. 1,314,803; Sept. 2; v. 266; p. 61.
- Jewelry, Luminous. A. S. Johnson. No. 1,301,568; Apr. 22; v. 261; p. 730.
- Jewelry-setting. M. J. Schless. No. 1,319,251; Oct. 21; v. 267; p. 391.
- Jig. J. B. Barbee and O. J. Cross. No. 1,312,429; Aug. 5; v. 265; p. 108.
- Jig. P. Farb. No. 1,294,643; Feb. 18; v. 259; p. 456.
- Jig automatic hutch device. A. J. Sayers. No. 1,292,379; Jan. 21; v. 258; p. 622.
- Jig-filling mechanism. P. M. Bush. No. 1,298,172; Mar. 25; v. 260; p. 609.
- Jig, Universal. J. Verderber. No. 1,322,978; Nov. 25; v. 268; p. 659.
- Jigs, Combined sill and grate for. A. N. Fanning. No. 1,313,984; Aug. 26; v. 265; p. 487.
- Jigs, Discharge-controlling means for. R. Foderaro and G. W. Wilmot. No. 1,324,588; Dec. 9; v. 269; p. 303.
- Jigging apparatus and process. W. C. Prickett. No. 1,315,407; Sept. 9; v. 266; p. 181.
- Joint: See—
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|-------------------------------|--------------------------|
| Angle-joint.                  | Railway-joint.           |
| Ball-and-socket joint.        | Riveted joint.           |
| Ball-bearing universal joint. | Separable joint.         |
| Bedstead-joint.               | Sheet-metal-pipe joint.  |
| Book-joint.                   | Slip-joint.              |
| Doll-joint.                   | Solderless pipe-joint.   |
| Electric-cable joint.         | Stovepipe-joint.         |
| Expansion-joint.              | Swing-joint.             |
| Flexible pipe-joint.          | Swinging joint.          |
| Flue-joint.                   | Swivel-joint.            |
| Furniture-joint.              | Table-frame lock-joint.  |
| Gas-tight joint.              | Tank-heater joint.       |
| Knuckle-joint.                | Tool-joint.              |
| Limb hinge-joint.             | Universal joint.         |
| Metal-casing joint.           | Universal driving-joint. |
| Metallic joint.               | Universal or like joint. |
| Pipe-joint.                   | Wind-shield joint.       |
| Rail-joint.                   | Wooden-structure joint.  |
- Joint. M. D. Gross. No. 1,307,122; June 17; v. 263; p. 417.
- Joint. C. Strom. No. 1,301,883; Apr. 29; v. 261; p. 823.
- Joint for drill-bits and other purposes. H. Haus. No. 1,296,954; Mar. 11; v. 260; p. 293.
- Joint-locking device, Adjustable. R. A. Walker. No. 1,322,850; Nov. 25; v. 268; p. 635.
- Joint or coupling for rods or the like. A. P. Ford and H. J. Mitchell. No. 1,306,956; June 17; v. 263; p. 387.
- Joint-tie. E. G. Carr. No. 1,324,228; Dec. 9; v. 269; p. 233.
- Joints, Lubricating means for universal. C. T. Myers. No. 1,306,229; June 10; v. 263; p. 219.
- Joiner. A. E. Schuffenhauer. No. 1,296,325; Mar. 4; v. 260; p. 115.
- Joiner, Band-saw stove. E. F. Beugler. No. 1,305,053; May 27; v. 262; p. 587.
- Journal-bearing. T. H. Bower. No. 1,297,073; Mar. 11; v. 260; p. 320.
- Journal-bearing. T. W. Kirkman. No. 1,298,734; Apr. 1; v. 261; p. 27.
- Journal-bearing. A. G. Meaden. No. 1,298,242; Mar. 25; v. 260; p. 624.
- Journal-bearing. F. G. Meyer and B. F. Wheeler. No. 1,323,605; Dec. 2; v. 269; p. 71.
- Journal-bearing. H. T. Newbigin. No. 1,322,332; Nov. 18; v. 268; p. 486.
- Journal-bearing and compressor provided therewith. B. S. McClellan. No. 1,320,703; Nov. 4; v. 268; p. 64.
- Journal-bearing wedge. S. H. Campbell. No. 1,315,007; Sept. 2; v. 266; p. 98.
- Journal-box. L. L. Davis. No. 1,297,111; Mar. 11; v. 260; p. 328.
- Journal-box. A. C. McCord. No. 1,299,845; Apr. 8; v. 261; p. 309.
- Journal-box. T. H. White. No. 1,310,642; July 22; v. 264; p. 582.
- Journal-box. W. M. Wilson. No. 1,325,387; Dec. 16; v. 269; p. 513.
- Journal-box, Equalizing. A. Beasley. No. 1,306,460; June 10; v. 263; p. 262.
- Journal-box-lubricating device. R. Dornan, 2d. No. 1,298,311; Mar. 25; v. 260; p. 639.
- Journal-lubricating device. I. S. Downing and E. S. Pearce. No. 1,302,021; Apr. 29; v. 261; p. 849.
- Journal-lubricator. I. A. Brown. No. 1,309,013; July 8; v. 264; p. 214.
- Journal-lubricator. J. M. Urbietta. No. 1,293,254; Feb. 4; v. 259; p. 65.
- Journals, Tool for adjusting. W. E. Norris. No. 1,311,836; July 29; v. 264; p. 836.
- Juice-extractor. F. Lyttle. No. 1,290,262; Jan. 7; v. 258; p. 60.
- Junction-box. A. A. Ziegler. No. 1,308,830; July 8; v. 264; p. 179.
- Junction-bracket. W. H. Teachworth. No. 1,316,001; Sept. 16; v. 266; p. 303.
- Kaleidoscope. S. Cappa. No. 1,290,078; Jan. 7; v. 258; p. 15.
- Kaleidoscope. C. W. Drummond. No. 1,313,848; Aug. 19; v. 265; p. 427.
- Kaleidoscope. A. Slabla. No. 1,294,967; Feb. 18; v. 259; p. 530.
- Keel-block. E. H. Thompson. No. 1,315,800; Sept. 9; v. 266; p. 250.
- Keel-block. E. H. Thompson. No. 1,320,945; Nov. 4; v. 268; p. 111.
- Keeping lids cool, Device for. F. J. Gerrard. No. 1,299,321; Apr. 1; v. 261; p. 160.
- Kerosene-burner. C. C. Shepardson. No. 1,315,993; Sept. 16; v. 266; p. 301.
- Kerosene-burning device. D. P. Parker. No. 1,316,736; Sept. 23; v. 266; p. 490.
- Kerosene-converter and gas-burner, Combined. H. A. Smock. No. 1,293,226; Feb. 4; v. 259; p. 57.
- Kerosene-vapor burner. A. E. Hauck. No. 1,324,115; Dec. 9; v. 269; p. 212.
- Kettle. E. L. Anderson. No. 1,326,628; Dec. 30; v. 269; p. 799.
- Kettle. M. O. Ayres. No. 1,314,180; Aug. 26; v. 265; p. 524.
- Kettle. F. Bentivegna. No. 1,295,414; Feb. 25; v. 259; p. 656.
- Kettle. T. T. Graser. No. 1,297,678; Mar. 18; v. 260; p. 477.
- Kettle, Enameled. R. F. Goecke. No. 1,290,733; Jan. 7; v. 258; p. 174.
- Kettle-lid. E. F. Mellinger. No. 1,305,825; June 3; v. 263; p. 112.
- Kettle, Water-. A. B. Matthews. No. 1,322,714; Nov. 25; v. 268; p. 610.
- Kettle, Zinc-. J. G. Granberg. No. 1,298,692; Apr. 1; v. 261; p. 16.
- Key: See—
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| Adding-machine multiplying-key. | Telegraph-key.   |
| Plano-key.                      | Type-writer key. |
| Skate-key.                      |                  |
- Key. H. M. Knight. No. 1,294,115; Feb. 11; v. 259; p. 297.
- Key. L. F. Morgan. No. 1,295,351; Feb. 25; v. 259; p. 641.
- Key-actions, Center rail for. O. L. Swallow. No. 1,319,188; Oct. 21; v. 267; p. 379.
- Key-actuated keyboard release and lock. W. Fuhrman and E. M. Squarey. No. 1,296,380; Mar. 4; v. 260; p. 127.
- Key-bolt. F. L. H. Sims. No. 1,313,748; Aug. 19; v. 265; p. 408.
- Key-controlled device. H. Krantz. No. 1,292,485; Jan. 28; v. 258; p. 668.
- Key-duplicating machine. S. Segal. No. 1,307,378; June 24; v. 263; p. 497.
- Key-fastener. N. R. Holcomb. No. 1,307,496; June 24; v. 263; p. 519.
- Key-fastener. I. M. Radabaugh. No. 1,321,074; Nov. 4; v. 268; p. 135.
- Key-fastener. W. Sabin. No. 1,300,489; Apr. 15; v. 261; p. 473.
- Key-fastener. P. T. Ulrich. No. 1,303,133; May 6; v. 262; p. 125.
- Key-holder, Safety. S. Stoeck and H. Gellman. No. 1,304,403; May 20; v. 262; p. 425.
- Key-lock. M. G. Norton. No. 1,293,616; Feb. 4; v. 259; p. 149.
- Key mechanism for wood winds. R. M. Price. No. 1,317,219; Sept. 30; v. 266; p. 615.
- Key-operated lock. J. Luter. No. 1,290,612; Jan. 7; v. 258; p. 144.
- Key-operated mechanism, Electrically-governed. J. T. and B. G. Austin. No. 1,303,626; May 13; v. 262; p. 242.
- Key-removing device. R. F. Whalley. No. 1,294,582; Feb. 18; v. 259; p. 441.
- Key-retainer. H. R. Hintze. No. 1,297,168; Mar. 11; v. 260; p. 340.

- Key-ring. H. L. Vaughan. No. 1,296,718; Mar. 11; v. 260; p. 238.
- Key-ring, Flexible. W. A. Schuler. No. 1,315,528; Sept. 9; v. 266; p. 202.
- Key-ring holder. T. D. Anagnostopoulos. No. 1,326,011; Dec. 23; v. 269; p. 646.
- Key-ring holder. J. Blue. No. 1,304,015; May 20; v. 262; p. 352.
- Key-ring holder. W. H. Mendelsohn. No. 1,302,067; Apr. 29; v. 261; p. 858.
- Key-ring hook. W. N. Morrison. No. 1,295,190; Feb. 25; v. 259; p. 604.
- Keys in locks, Device for securing. J. W. Lindberg. No. 1,314,526; Sept. 2; v. 266; p. 9.
- Keys, Identifying means for night-latch. J. E. Patterson. No. 1,322,815; Nov. 25; v. 268; p. 629.
- Keyboard composing-machine. J. S. Bancroft and M. C. Indahl. No. 1,307,719; June 24; v. 263; p. 558.
- Keyboard for calculating and type-writing machines, Electric. W. F. Drew. No. 1,311,384; July 29; v. 264; p. 752.
- Keyboard-indicator. C. H. Reeve. No. 1,293,924; Feb. 11; v. 259; p. 251.
- Keyboard-indicators, Blank for making foldable. C. H. Reeve. No. 1,293,923; Feb. 11; v. 259; p. 251.
- Keyboard instrument chord-playing attachment. G. L. Reynolds. No. 1,300,878; Apr. 15; v. 261; p. 555.
- Keyboard mechanism. M. G. de Simone. No. 1,318,135; Oct. 7; v. 267; p. 90.
- Keyboard mechanism of typographic composing and casting machines. P. W. Druitt and W. R. Gilpin. No. 1,325,397; Dec. 16; v. 269; p. 515.
- Keyboards, Interlocking release mechanism for. W. W. Lasker. No. 1,305,556; June 3; v. 263; p. 62.
- Keyed graphic drill-problem device, Inherently. F. D. Jones. No. 1,296,965; Mar. 11; v. 260; p. 296.
- Keyhole-guard. C. A. Brickley. No. 1,292,696; Jan. 28; v. 258; p. 721.
- Keyless lock. H. L. Book. No. 1,297,991; Mar. 25; v. 260; p. 570.
- Keyless lock. M. B. Burgess. No. 1,302,896; May 6; v. 262; p. 80.
- Keyways, Interchangeable tool for slotting. G. Bartlett. No. 1,318,830; Oct. 14; v. 267; p. 284.
- Kiln: See—  
Dry-kiln. Rotary kiln.  
Drying-kiln. Tunnel-kiln.  
Ore-treating kiln.
- Kiln. D. R. Bone. No. 1,303,760; May 13; v. 262; p. 267.
- Kiln. J. D. Hoff. No. 1,307,974; June 24; v. 263; p. 606.
- Kiln. F. Munhollon. No. 1,311,286; July 29; v. 264; p. 733.
- Kiln. J. C. Schaffer. No. 1,318,806; Oct. 14; v. 267; p. 279.
- Kiln. H. Webster. No. 1,295,650; Feb. 25; v. 259; p. 711.
- Kiln. C. H. Zwermann. No. 1,306,161; June 10; v. 263; p. 205.
- Kiln. C. H. Zwermann. No. 1,308,973; July 8; v. 264; p. 205.
- Kiln and similar structure. H. R. Straight. No. 1,290,848; Jan. 7; v. 258; p. 200.
- Kiln, Continuous tunnel. G. H. Benjamin. No. 1,295,955; Mar. 4; v. 260; p. 31.
- Kiln-furnace. R. W. Menk. No. 1,309,213; July 8; v. 264; p. 250.
- Kiln, Shaft. E. Schmatolla. No. 1,304,514; May 20; v. 262; p. 447.
- Kinetograph and phonograph records, Producing assembled synchronous. O. E. Kellum. No. 1,294,672; Feb. 18; v. 259; p. 462.
- Kinetscope. R. J. Emory. No. 1,292,448; Jan. 28; v. 258; p. 660.
- Kinetscope fire-shutter. R. J. Emory. No. 1,301,081; Apr. 15; v. 261; p. 601.
- Kinetscope shutter mechanism. R. J. Emory. No. 1,293,741; Feb. 11; v. 259; p. 208.
- Kinetscopes, Take-up reel for. R. J. Emory. No. 1,299,566; Apr. 8; v. 261; p. 244.
- Kit. L. M. Kelley. No. 1,291,914; Jan. 21; v. 258; p. 509.
- Kitchen and table article. A. J. Cunningham. No. 1,305,777; June 3; v. 263; p. 103.
- Kitchen. Rolling. M. Iltz. No. 1,291,006; Jan. 14; v. 258; p. 263.
- Kitchen utensil. B. E. Dougherty. No. 1,293,379; Feb. 4; v. 259; p. 94.
- Kitchen utensil. J. G. Gavlak. No. 1,290,168; Jan. 7; v. 258; p. 37.
- Kitchen utensil. A. G. Pattison. No. 1,290,333; Jan. 7; v. 258; p. 77.
- Kitchen utensil. T. Smolinsky. No. 1,306,783; June 17; v. 263; p. 355.
- Kitchen utensils, Handle for. E. H. Ryerson. No. 1,313,211; Aug. 12; v. 265; p. 291.
- Kitchenola. J. H. Peters. No. 1,318,229; Oct. 7; v. 267; p. 110.
- Kite. G. D. Wanner. No. 1,321,957; Nov. 18; v. 268; p. 416.
- Kite, Military. E. Bergher. No. 1,326,434; Dec. 30; v. 269; p. 762.
- Kite-string holder. J. J. Craig. No. 1,296,268; Mar. 4; v. 260; p. 103.
- Knee-pad. W. R. Holsey. No. 1,296,522; Mar. 4; v. 260; p. 158.
- Knee-pad. U. C. Miller. No. 1,317,305; Sept. 30; v. 266; p. 632.
- Knee-pad. L. F. Raymond. No. 1,308,863; July 8; v. 264; p. 185.
- Knee-pad. P. J. Summers. No. 1,293,240; Feb. 4; v. 259; p. 61.
- Knee-protector. R. B. Hooker. No. 1,309,627; July 15; v. 264; p. 365.
- Knee-protector. R. L. Peugh. No. 1,308,109; July 1; v. 264; p. 19.
- Knickerbockers. H. Walcoff. No. 1,306,935; June 17; v. 263; p. 383.
- Knife: See—  
Anvil-knife. Gutter's-knife.  
Asparagus-knife. Pocket-knife.  
Carpenter's knife. Razor-blade knife.  
Cobbler's or shoemaker's knife. Skiving-knife.  
Fruit-knife. Slicing-knife.  
Trench-knife.
- Knife. W. H. Ballinger. No. 1,315,901; Sept. 9; v. 266; p. 270.
- Knife. C. R. Grey. No. 1,299,173; Apr. 1; v. 261; p. 127.
- Knife. B. Holownia. No. 1,296,805; Mar. 11; v. 260; p. 258.
- Knife. E. G. Voos. No. 1,318,515; Oct. 14; v. 267; p. 225.
- Knife and fork, Combined. A. Przybylek. No. 1,324,565; Dec. 9; v. 269; p. 299.
- Knife and gun, Combination. J. Farago. No. 1,298,920; Apr. 1; v. 261; p. 70.
- Knife and wire-cutter, Combined. J. Federkiewicz and M. Olszak. No. 1,303,277; May 13; v. 262; p. 180.
- Knife attachment for wet-machines, Automatic. E. M. Béné. No. 1,322,283; Nov. 18; v. 268; p. 477.
- Knife-blade-hardening device. O. L. Hemming. No. 1,303,200; May 6; v. 262; p. 137.
- Knife-blade switch. F. B. Adam. No. 1,299,891; Apr. 8; v. 261; p. 318.
- Knife-blade switch. H. J. L. Frank. No. 1,303,284; May 13; v. 262; p. 181.
- Knife, fork, and spoon, Folding. I. C. Popper. No. 1,321,670; Nov. 11; v. 268; p. 311.
- Knife-guard, Safety. J. M. Forsyth. No. 1,292,292; Jan. 21; v. 258; p. 601.
- Knife-marker. W. C. Farnum. No. 1,302,646; May 6; v. 262; p. 31.
- Knife sharpener, Mower-. J. Caldwell. No. 1,313,790; Aug. 19; v. 265; p. 416.
- Knife-sheath. E. J. Pommer. No. 1,297,008; Mar. 11; v. 260; p. 306.
- Knives, forks, &c., Condiment-receptacle for. W. Fields. No. 1,317,691; Oct. 7; v. 267; p. 6.
- Knight engine. F. A. Schmutz. No. 1,316,867; Sept. 23; v. 266; p. 513.
- Knit fabric, Machine for slitting. F. Chatfield. No. 1,298,005; Mar. 25; v. 260; p. 574.
- Knitted cap. L. H. Ensten. No. 1,313,080; Aug. 12; v. 265; p. 266.
- Knitted fabric and making same. M. C. Miller. No. 1,290,632; Jan. 7; v. 258; p. 149.
- Knitted fabric body. G. Davidson and H. C. Doctor. No. 1,305,446; June 3; v. 263; p. 41.
- Knitted glove and producing same. G. Stibbe. No. 1,292,129; Jan. 21; v. 258; p. 563.
- Knitted webs, Machine for uniting. L. N. D. Williams. No. 1,315,064; Sept. 2; v. 266; p. 108.
- Knitting appliance. F. G. Seifarth. No. 1,318,465; Oct. 14; v. 267; p. 215.
- Knitting device. J. Cuomo. No. 1,309,318; July 8; v. 264; p. 270.
- Knitting fabric sections and making fabrics having transferred sections, Machine for. W. H. Childrey. No. 1,306,523; June 10; v. 263; p. 274.
- Knitting-holder. C. C. R. Wells. No. 1,290,440; Jan. 7; v. 258; p. 103.
- Knitting implement. E. Schneider. No. 1,318,604; Oct. 14; v. 267; p. 241.
- Knitting-machine. E. U. Ames. No. 1,320,438; Nov. 4; v. 268; p. 15.
- Knitting-machine. R. Fisher. No. 1,293,743; Feb. 11; v. 259; p. 209.
- Knitting-machine. W. Fisher. No. 1,309,124; July 8; v. 264; p. 234.
- Knitting-machine. W. A. Ingalls. No. 1,309,288; July 8; v. 264; p. 264.
- Knitting-machine. P. P. La Montagne. No. 1,321,647; Nov. 11; v. 268; p. 307.
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- Knitting-machine. P. P. La Montagne. No. 1,325,644; Dec. 23; v. 269; p. 579.
- Knitting-machine. A. M. Pigeon. No. 1,321,472; Nov. 11; v. 268; p. 274.
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- Knitting-machine and needle therefor. P. P. La Montagne. No. 1,321,646; Nov. 11; v. 268; p. 306.
- Knitting-machine, Antiraveling stocking. G. P. Bosworth. No. 1,296,750; Mar. 11; v. 260; p. 247.
- Knitting-machine attachment. J. A. Ruth. No. 1,299,621; Apr. 8; v. 261; p. 256.
- Knitting-machine automatic clutch-operating mechanism. E. Allwood. No. 1,292,672; Jan. 28; v. 258; p. 714.
- Knitting machine, Circular. G. L. Ballard. No. 1,317,151; Sept. 30; v. 266; p. 603.
- Knitting machine, Circular. M. C. Miller. No. 1,322,716; Nov. 25; v. 268; p. 610.
- Knitting machine, Circular. F. W. Robinson. No. 1,291,155; Jan. 14; v. 258; p. 298.
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- Knitting-machine stop-motion. W. O. Taylor. No. 1,316,929; Sept. 23; v. 266; p. 524.
- Knitting-machine stop-motion, Circular. P. C. Klingler. No. 1,292,803; Jan. 28; v. 258; p. 745.
- Knitting-machine thread binder and severing device, Combined. J. Lawson. No. 1,293,813; Feb. 11; v. 259; p. 226.
- Knitting-machine thread-severing device. J. Lawson. No. 1,293,812; Feb. 11; v. 259; p. 226.
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- Knitting-machines, Beard-opener for spring-beard-needle. F. Wilcomb. No. 1,305,575; June 3; v. 263; p. 66.
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- Knitting-machines, Let-off and brake-controlling mechanism for. W. O. Taylor. No. 1,316,930; Sept. 23; v. 266; p. 524.
- Knitting-machines, Needle-cam structure for. R. W. Scott. No. 1,311,093; July 22; v. 264; p. 665.
- Knitting-machines, Stop-motion for. L. Morin. No. 1,323,087; Nov. 25; v. 268; p. 679.
- Knitting machines, Take-up for circular. H. E. Houseman. No. 1,307,358; June 24; v. 263; p. 493.
- Knitting-machines, Tuck-stitch mechanism for. R. W. Scott. No. 1,311,623; July 29; v. 264; p. 796.
- Knitting-needle attachment. H. W. Gaddess. No. 1,298,033; Mar. 25; v. 260; p. 579.
- Knob-attaching means. H. R. Williams. No. 1,313,147; Aug. 12; v. 265; p. 279.
- Knockdown box. G. H. Townsend. No. 1,317,836; Oct. 7; v. 267; p. 34.
- Knockdown reel. R. D. Wirt. No. 1,291,333; Jan. 14; v. 258; p. 338.
- Knockdown structure, Combination. W. Kopp. No. 1,314,271; Aug. 26; v. 265; p. 542.
- Knot-tying device. A. B. Edmands. No. 1,291,806; Jan. 21; v. 258; p. 481.
- Knot-tying device. A. B. Edmands. (Reissue.) No. 14,697; July 29; v. 264; p. 841.
- Knotter. E. D. Parker. (Reissue.) No. 14,767; Dec. 9; v. 269; p. 339.
- Knuckle-joint for transmission-shafts. O. O. Storle. No. 1,317,054; Sept. 23; v. 266; p. 548.
- Label. A. Rosenthal. No. 1,321,477; Nov. 11; v. 268; p. 275.
- Label, Adhesive. M. Gallibert. No. 1,295,300; Feb. 25; v. 259; p. 629.
- Label-advancing machine. J. E. Johnson and C. H. Oslund. No. 1,300,407; Apr. 15; v. 261; p. 455.
- Label-affixer. J. J. Donovan. No. 1,302,142; Apr. 29; v. 261; p. 871.
- Label-affixing machine. H. K. Eastman and C. Gentel. No. 1,295,016; Feb. 18; v. 259; p. 541.
- Label and capsule. G. H. Knight and H. G. Thackray. No. 1,303,212; May 6; v. 262; p. 140.
- Label-applying machine. J. R. O'Neill. No. 1,300,639; Apr. 15; v. 261; p. 504.
- Label-holder. F. B. Cook. No. 1,294,332; Feb. 11; v. 259; p. 347.
- Label-holder. J. Fine. No. 1,316,779; Sept. 23; v. 266; p. 497.
- Label-holder. E. O. Wonder. No. 1,313,659; Aug. 19; v. 265; p. 391.
- Label-holder advancing means. J. E. Johnson and C. H. Oslund. No. 1,300,409; Apr. 15; v. 261; p. 456.
- Label-pasting machine. A. A. Bedard. No. 1,295,676; Feb. 25; v. 259; p. 717.
- Label-wiping machine. J. E. Johnson and C. H. Oslund. No. 1,326,201; Dec. 30; v. 269; p. 719.
- Labels, Machine for gumming and moistening. M. T. Voyton. No. 1,311,199; July 29; v. 264; p. 717.
- Labels, wrappers, and the like, Glue-applying apparatus for. R. Leumann. No. 1,313,098; Aug. 12; v. 265; p. 269.
- Labeling and stapling machine. M. O. Clauss. No. 1,293,339; Feb. 4; v. 259; p. 84.
- Labeling-machine. E. D. Anderson. No. 1,318,715; Oct. 14; v. 267; p. 262.
- Labeling-machine. H. G. Dewey. No. 1,316,225; Sept. 16; v. 266; p. 344.
- Labeling-machine. H. de Escobales. No. 1,297,664; Mar. 18; v. 260; p. 474.
- Labeling-machine. H. O. Fischer. No. 1,311,643; July 29; v. 264; p. 800.
- Labeling machine. R. Knopp and J. G. Biehler. No. 1,299,194; Apr. 1; v. 261; p. 132.
- Labeling-machine. O. S. Kunkely. No. 1,294,918; Feb. 18; v. 259; p. 520.
- Labeling-machine. A. M. MacFarland. No. 1,294,290; Feb. 11; v. 259; p. 337.
- Labeling-machine. J. Peterson. No. 1,317,389; Sept. 30; v. 266; p. 648.
- Labeling-machine. A. Pollatsek. No. 1,295,592; Feb. 25; v. 259; p. 697.
- Labeling-machine. H. Stake and A. P. Ekvall. No. 1,301,015; Apr. 15; v. 261; p. 585.
- Labeling-machine. J. L. Whitehurst and C. H. Wild. No. 1,323,940; Dec. 2; v. 269; p. 135.
- Labeling-machine, Automatic. M. J. Milmo. No. 1,315,737; Sept. 9; v. 266; p. 239.
- Labeling machine, Automatic can. N. Yamamoto. No. 1,292,209; Jan. 21; v. 258; p. 583.
- Labeling machine, Bottle. E. Ermold. No. 1,308,280; July 1; v. 264; p. 50.
- Laboratory apparatus. S. Drucker and W. Sieck, Jr. No. 1,320,323; Oct. 28; v. 267; p. 615.
- Laboratory-table. C. M. Biedma. No. 1,314,943; Sept. 2; v. 266; p. 86.
- Lace-making machine. E. Renault. No. 1,316,647; Sept. 23; v. 266; p. 473.
- Lace. Shoe. A. Eklund. No. 1,303,868; May 20; v. 262; p. 325.
- Lace-tipping machine. A. Schmalz. No. 1,325,997; Dec. 23; v. 269; p. 644.
- Lacing device. V. P. Zapis. No. 1,309,271; July 8; v. 264; p. 261.
- Lace-stud-setting machine. A. R. Havener. No. 1,301,432; Apr. 22; v. 261; p. 705.
- Lacing-terminal. L. S. Hinckley. No. 1,314,805; Sept. 2; v. 266; p. 62.
- Lacing-tip. J. Frier. No. 1,318,745; Oct. 14; v. 267; p. 268.
- Lacing tool, Belt. A. Jacquot. No. 1,315,128; Sept. 2; v. 266; p. 119.
- Ladder. H. Hogan. No. 1,305,107; May 27; v. 262; p. 596.
- Ladder. T. N. Russell. No. 1,304,809; May 27; v. 262; p. 541.
- Ladder brace and bracket. J. N. Wheeler. No. 1,304,427; May 20; v. 262; p. 430.
- Ladder, Car. A. W. Hawkins. No. 1,311,348; July 29; v. 264; p. 745.
- Ladder, Combination. A. Sabo. No. 1,299,784; Apr. 8; v. 261; p. 295.
- Ladder, Folding. L. E. Moore. No. 1,314,201; Aug. 26; v. 265; p. 528.
- Ladder, Folding step. N. A. S. Miller. No. 1,315,979; Sept. 16; v. 266; p. 299.
- Ladder-foot. A. N. Faulkner. No. 1,293,066; Feb. 4; v. 259; p. 22.
- Ladder-foot. A. J. Lunser. No. 1,300,430; Apr. 15; v. 261; p. 460.
- Ladder for ships, Sliding. F. B. Toth. No. 1,314,769; Sept. 2; v. 266; p. 55.
- Ladder, Sectional silo. W. B. Trost and F. Klein. No. 1,308,881; July 8; v. 264; p. 188.
- Ladder, Sleeping-car. W. A. Cooper. No. 1,308,147; July 1; v. 264; p. 26.
- Ladder-stay. J. Maxwell. No. 1,294,345; Feb. 11; v. 259; p. 350.
- Ladder, Step. J. H. Gagnier. No. 1,312,725; Aug. 12; v. 265; p. 195.
- Ladders, Brake mechanism for rolling. T. P. Moran. No. 1,315,146; Sept. 2; v. 266; p. 122.
- Ladders, Stile-extension clamp for. F. G. Watson. No. 1,290,690; Jan. 7; v. 258; p. 164.
- Ladle, Founder's. D. G. Rowell. No. 1,301,172; Apr. 22; v. 261; p. 65.

- Ladle-turning mechanism. B. H. Whiting and J. S. Townsend. No. 1,323,137; Nov. 25; v. 268; p. 689.
- Ladies, Extension-brim for. N. Alderdice. No. 1,321,583; Nov. 11; v. 268; p. 295.
- Laminated fabric. J. Ramsbottom. No. 1,315,409; Sept. 9; v. 266; p. 181.
- Laminated fabric. M. Scheuer. No. 1,302,473; Apr. 29; v. 261; p. 935.
- Lamp. W. J. Bohan. No. 1,323,819; Dec. 2; v. 269; p. 112.
- Lamp. E. I. Dodds. No. 1,313,622; Aug. 19; v. 265; p. 385.
- Lamp. W. J. Doecker. No. 1,311,681; July 29; v. 264; p. 807.
- Lamp. T. I. Duffy. No. 1,305,258; June 3; v. 263; p. 5.
- Lamp. H. H. Elliott. No. 1,301,921; Apr. 29; v. 261; p. 830.
- Lamp. A. H. England and W. S. Mayer. No. 1,318,062; Oct. 7; v. 267; p. 76.
- Lamp. C. E. Godley. No. 1,308,012; June 24; v. 263; p. 613.
- Lamp. P. Heidelberg. No. 1,321,915; Nov. 18; v. 268; p. 408.
- Lamp. H. Horsley. No. 1,312,731; Aug. 12; v. 265; p. 196.
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- Lamp. M. Kaczmaryk. No. 1,325,155; Dec. 16; v. 269; p. 471.
- Lamp. E. A. Kuen. No. 1,294,485; Feb. 18; v. 259; p. 419.
- Lamp. B. J. Reese. No. 1,308,809; July 8; v. 264; p. 175.
- Lamp. M. R. Smith. No. 1,322,969; Nov. 25; v. 268; p. 657.
- Lamp. F. D. Spear. No. 1,320,346; Oct. 28; v. 267; p. 619.
- Lamp. W. H. Spencer. No. 1,319,186; Oct. 21; v. 267; p. 378.
- Lamp. J. A. Topping. No. 1,324,942; Dec. 16; v. 269; p. 431.
- Lamp, Acetylene-. A. L. Hansen. No. 1,295,743; Feb. 25; v. 259; p. 732.
- Lamp, Acetylene-. A. L. Hansen. No. 1,295,744; Feb. 25; v. 259; p. 732.
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- Lamp, Acetylene-. A. L. Hansen. No. 1,310,529; July 22; v. 264; p. 560.
- Lamp, Acetylene-. J. D. Luttrell. No. 1,302,393; Apr. 29; v. 261; p. 919.
- Lamp adjuster, Head-. J. A. Ormiston. No. 1,304,505; May 20; v. 262; p. 446.
- Lamp and heater, Safety fluid. G. W. Brown. No. 1,297,650; Mar. 18; v. 260; p. 471.
- Lamp and operating same, Gas or vapor. P. C. Hewitt. No. 1,321,433; Nov. 11; v. 268; p. 267.
- Lamp and radiometer, Advertising. E. J. Hunt. No. 1,290,749; Jan. 7; v. 258; p. 178.
- Lamp, Arc-. C. Aalborg. No. 1,294,020; Feb. 11; v. 259; p. 275.
- Lamp, Arc-. M. J. Wohl. No. 1,319,825; Oct. 28; v. 267; p. 522.
- Lamp attachment. C. F. L., W. L., and C. H. Kaufmann. No. 1,320,395; Nov. 4; v. 268; p. 7.
- Lamp attachment. G. Rodriguez. No. 1,309,548; July 8; v. 264; p. 313.
- Lamp attachment. C. Savitsky. No. 1,316,980; Sept. 23; v. 266; p. 534.
- Lamp, Automobile-. S. Araki. No. 1,324,488; Dec. 9; v. 269; p. 284.
- Lamp, Automobile-. J. W. Brown. No. 1,297,317; Mar. 18; v. 260; p. 402.
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- Lamp, Automobile-. O. M. Otte. No. 1,301,163; Apr. 22; v. 261; p. 652.
- Lamp, Automobile-. O. M. Otte. No. 1,309,445; July 8; v. 264; p. 293.
- Lamp, Automobile-. O. M. Otte. No. 1,309,446; July 8; v. 264; p. 294.
- Lamp, Automobile-. O. M. Otte. No. 1,309,447; July 8; v. 264; p. 294.
- Lamp, Automobile-. O. M. Otte. No. 1,309,448; July 8; v. 264; p. 294.
- Lamp, Automobile-. O. M. Otte. No. 1,309,449; July 8; v. 264; p. 294.
- Lamp, Automobile-. O. M. Otte. No. 1,309,450; July 8; v. 264; p. 294.
- Lamp, Automobile rear. C. H. Morse. No. 1,291,080; Jan. 14; v. 258; p. 282.
- Lamp-base remover, Incandescent-. H. D. Grinnell. No. 1,319,028; Oct. 14; v. 267; p. 323.
- Lamp, Battery hand-. C. F. Burgess. No. 1,297,654; Mar. 18; v. 260; p. 472.
- Lamp, Battery hand-. C. F. Burgess. No. 1,297,656; Mar. 18; v. 260; p. 472.
- Lamp, Battery hand-. C. F. Burgess. No. 1,297,657; Mar. 18; v. 260; p. 472.
- Lamp, Battery hand-. C. F. Burgess. No. 1,299,908; Apr. 8; v. 261; p. 322.
- Lamp, Battery hand-. C. F. Burgess. No. 1,299,909; Apr. 8; v. 261; p. 322.
- Lamp, Battery hand-. C. F. Burgess. No. 1,299,910; Apr. 8; v. 261; p. 322.
- Lamp, Battery hand-. C. F. Burgess. No. 1,299,911; Apr. 8; v. 261; p. 322.
- Lamp-bracket. E. F. Bessey and W. H. Beiers. No. 1,299,899; Apr. 8; v. 261; p. 320.
- Lamp-bracket. R. F. Ferguson. No. 1,296,060; Mar. 4; v. 260; p. 56.
- Lamp-bracket. J. Hollis. No. 1,319,393; Oct. 21; v. 267; p. 417.
- Lamp bracket, Adjustable head-. J. J. Tracy. No. 1,304,827; May 27; v. 262; p. 544.
- Lamp bulbs, Method and apparatus for manufacturing incandescent-. R. Le Rossignol. No. 1,315,783; Sept. 9; v. 266; p. 247.
- Lamp-burner. A. W. Gregor and T. H. French. No. 1,312,478; Aug. 5; v. 265; p. 118.
- Lamp-burner. W. S. Hamm. No. 1,309,089; July 8; v. 264; p. 228.
- Lamp-burner. J. Hass. No. 1,306,010; June 10; v. 263; p. 177.
- Lamp burner, Oil-. H. N. Kerr. No. 1,291,547; Jan. 14; v. 258; p. 388.
- Lamp, Candle-. H. H. Will. No. 1,292,195; Jan. 21; v. 258; p. 579.
- Lamp-canopy. S. Heath. No. 1,306,062; June 10; v. 263; p. 187.
- Lamp carrier, Electric-. E. Schinscholl. No. 1,313,337; Aug. 19; v. 265; p. 331.
- Lamp casing, Signal-. J. Ohrt. No. 1,296,109; Mar. 4; v. 260; p. 67.
- Lamp-chimney. E. B. Guinee. No. 1,295,736; Feb. 25; v. 259; p. 730.
- Lamp-chimney. B. C. Hutto. No. 1,295,322; Feb. 25; v. 259; p. 634.
- Lamp-chimney. J. M. Selvage. No. 1,294,181; Feb. 11; v. 259; p. 313.
- Lamp-chimney holder. W. S. Hamm. No. 1,311,888; Aug. 5; v. 265; p. 7.
- Lamp-chimney holder. W. S. Hamm. No. 1,319,389; Oct. 21; v. 267; p. 417.
- Lamp-chimney holder. W. S. Hamm. No. 1,319,390; Oct. 21; v. 267; p. 417.
- Lamp-chimney holder. E. J. Jones. No. 1,326,061; Dec. 23; v. 269; p. 656.
- Lamp chimney-support, Oil-. L. T. Bragg. No. 1,297,646; Mar. 18; v. 260; p. 470.
- Lamp, Combined tonneau and trouble. J. C. Stearns. No. 1,311,295; July 29; v. 264; p. 735.
- Lamp construction. G. E. Hulse. No. 1,309,630; July 15; v. 264; p. 365.
- Lamp construction. F. S. Mills. No. 1,293,161; Feb. 4; v. 259; p. 43.
- Lamp-control mechanism, Automobile-. J. Miskey. No. 1,314,281; Aug. 26; v. 265; p. 544.
- Lamp-cord-adjusting clamp. D. F. Moriarty. No. 1,321,660; Nov. 11; v. 268; p. 309.
- Lamp, Dirigible auto-. A. L. Heitzman. No. 1,294,906; Feb. 18; v. 259; p. 516.
- Lamp, Dirigible automobile-. L. Sloop. No. 1,319,630; Oct. 21; v. 267; p. 463.
- Lamp, Electric. W. J. Avery. No. 1,299,538; Apr. 8; v. 261; p. 238.
- Lamp, Electric. D. W. Grazier. No. 1,318,377; Oct. 14; v. 267; p. 198.
- Lamp, Electric. F. G. Keyes. No. 1,292,482; Jan. 28; v. 258; p. 667.
- Lamp, Electric. F. G. Keyes. No. 1,306,259; June 10; v. 263; p. 226.
- Lamp, Electric. F. G. Keyes. No. 1,306,912; June 17; v. 263; p. 379.
- Lamp, Electric. O. and C. Kurz. No. 1,303,332; May 13; v. 262; p. 189.
- Lamp, Electric. G. E. Merchant. No. 1,321,934; Nov. 18; v. 268; p. 412.
- Lamp, Electric. R. S. Peirce. No. 1,321,242; Nov. 11; v. 268; p. 231.
- Lamp, Electric. R. E. Williams. No. 1,299,888; Apr. 8; v. 261; p. 317.
- Lamp electric connection, Baker's-oven-. C. P. Robson. No. 1,292,884; Jan. 28; v. 258; p. 764.
- Lamp, Electric gas-detecting safety-. C. G. Hunt and J. H. Coyle. No. 1,294,806; Feb. 18; v. 259; p. 493.
- Lamp, Electric gas or vapor. F. Skaupy. No. 1,291,209; Jan. 14; v. 258; p. 310.
- Lamp, Electric incandescent. J. H. Dale. No. 1,298,299; Mar. 25; v. 260; p. 636.
- Lamp, Electric incandescent. L. Hamburger and D. Lely, Jr. No. 1,317,492; Sept. 30; v. 266; p. 667.
- Lamp electrode, Arc-. W. R. Mott. No. 1,311,133; July 22; v. 264; p. 672.
- Lamp electrode, Arc-. W. R. Mott. No. 1,326,605; Dec. 30; v. 269; p. 795.
- Lamp electrodes, Arc-. I. Ladoff and R. W. E. Moore. No. 1,317,199; Sept. 30; v. 266; p. 612.
- Lamp, Extensible spot-. B. J. Grigsby. No. 1,319,473; Oct. 21; v. 267; p. 433.
- Lamp, Extension-. E. G. K. Anderson. No. 1,309,678; July 15; v. 264; p. 374.



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- Lamp extension, Collapsible. M. Doerr. No. 1,326,650; Dec. 30; v. 269; p. 803.
- Lamp-extinguisher. C. E. Bernier. No. 1,314,121; Aug. 26; v. 265; p. 513.
- Lamp-fixture. W. E. Cochran. No. 1,301,653; Apr. 22; v. 261; p. 746.
- Lamp, Flame safety and open. T. M. Chance. No. 1,323,618; Dec. 2; v. 269; p. 74.
- Lamp, Flash-. J. J. B. Arter. No. 1,291,710; Jan. 21; v. 258; p. 458.
- Lamp-focusing means. E. A. Everett. No. 1,307,855; June 24; v. 263; p. 584.
- Lamp for automobiles and the like, Automatic. S. A. Huntley. No. 1,292,785; Jan. 28; v. 258; p. 740.
- Lamp for dental uses, Electric. A. Sutter. No. 1,323,420; Dec. 2; v. 269; p. 37.
- Lamp for motion-picture-projecting machines, Adjustable. J. G. R. O'Hara. No. 1,310,959; July 22; v. 264; p. 640.
- Lamp for photographic use, Magnesium-. J. P. Hansen. No. 1,315,118; Sept. 2; v. 266; p. 118.
- Lamp, Gas-. N. Cozatsky. No. 1,302,901; May 6; v. 262; p. 81.
- Lamp, Gaseous-conduction. D. M. Moore. No. 1,316,967; Sept. 23; v. 266; p. 531.
- Lamp generator, Pocket-. O. Junghans. No. 1,302,068; May 6; v. 262; p. 112.
- Lamp-guard. G. E. Purple. No. 1,298,397; Mar. 25; v. 260; p. 656.
- Lamp-guard-securing device. G. E. Purple. No. 1,298,398; Mar. 25; v. 260; p. 656.
- Lamp, Hand-. C. F. Burgess. No. 1,297,655; Mar. 18; v. 260; p. 472.
- Lamp, Hand-. J. C. Ford. No. 1,324,547; Dec. 9; v. 269; p. 296.
- Lamp, Head-. S. Mazzeo. No. 1,313,716; Aug. 19; v. 265; p. 402.
- Lamp, Head-. C. Moru. No. 1,298,545; Mar. 25; v. 260; p. 689.
- Lamp heating attachment, Gas-. B. M. Paddison and C. G. Earlenbaugh. No. 1,297,230; Mar. 11; v. 260; p. 353.
- Lamp-holder. C. J. Peterson. No. 1,305,406; June 3; v. 263; p. 33.
- Lamp holder and guard. D. M. Anderson. No. 1,314,846; Sept. 2; v. 266; p. 69.
- Lamp holder, Electric-. H. Haussmann and G. C. Klesting. No. 1,303,555; May 13; v. 262; p. 230.
- Lamp-holders, Socket for incandescent electric-. A. Gourju. No. 1,302,787; May 6; v. 262; p. 57.
- Lamp-housing. P. D. Howse. No. 1,322,490; Nov. 18; v. 268; p. 517.
- Lamp, Incandescent. A. R. Dennington. No. 1,313,857; Aug. 19; v. 265; p. 428.
- Lamp, Incandescent. W. L. Van Keuren. No. 1,301,079; Apr. 15; v. 261; p. 601.
- Lamp, Incandescent arc-. P. K. Devers, Jr. No. 1,290,980; Jan. 14; v. 258; p. 246.
- Lamp, Incandescent electric. J. H. Coggins. No. 1,298,179; Mar. 25; v. 260; p. 610.
- Lamp, Incandescent electric. A. R. Dennington. No. 1,319,853; Oct. 28; v. 267; p. 528.
- Lamp, Incandescent electric. M. A. Hoyt. No. 1,293,781; Feb. 11; v. 259; p. 218.
- Lamp, Incandescent electric. C. H. McKay. No. 1,305,295; June 3; v. 263; p. 13.
- Lamp, Incandescent electric. G. O. Willey. No. 1,293,594; Feb. 4; v. 259; p. 144.
- Lamp, Incandescent gas-. G. Dalen. No. 1,315,817; Sept. 9; v. 266; p. 253.
- Lamp-lighting device, Electric-. G. Wheat. No. 1,321,960; Nov. 18; v. 268; p. 416.
- Lamp-lighting device, Time-controlled. O. M. Burchfiel. No. 1,317,069; Sept. 23; v. 266; p. 551.
- Lamp, Magneto-electric pocket-. M. A. Pattay and E. Jaquemot. No. 1,301,595; Apr. 22; v. 261; p. 735.
- Lamp manufacture. W. L. Van Keuren. No. 1,326,121; Dec. 23; v. 269; p. 667.
- Lamp, Mercury arc-. P. G. Nutting. No. 1,320,087; Oct. 28; v. 267; p. 571.
- Lamp, Miner's. W. Mosso. No. 1,324,921; Dec. 16; v. 269; p. 427.
- Lamp, Miner's hand-. J. L. Conway. No. 1,319,758; Oct. 28; v. 267; p. 510.
- Lamp-mount for projectors. T. I. Duffy. No. 1,300,360; Apr. 15; v. 261; p. 446.
- Lamp-mounting. C. S. Ryerson. No. 1,313,739; Aug. 19; v. 265; p. 406.
- Lamp, Quartz. F. G. Keyes. No. 1,307,500; June 24; v. 263; p. 519.
- Lamp, Phonograph-. F. H. Feraud. No. 1,300,363; Apr. 15; v. 261; p. 447.
- Lamp, Phonograph-. F. H. Feraud. No. 1,310,564; July 22; v. 264; p. 567.
- Lamp, Portable. C. A. Kramer. No. 1,295,333; Feb. 25; v. 259; p. 637.
- Lamp, Portable. W. Lumley. No. 1,297,880; Mar. 18; v. 260; p. 521.
- Lamp, Portable electric. H. Henderson and A. E. Case. No. 1,295,497; Feb. 25; v. 259; p. 675.
- Lamp, Portable electric. V. T. Jennings. No. 1,313,296; Aug. 19; v. 265; p. 323.
- Lamp, Portable electric. D. A. Murphy. No. 1,295,567; Feb. 25; v. 259; p. 692.
- Lamp, Post-type arc-. C. Aalborg. No. 1,309,711; July 15; v. 264; p. 380.
- Lamp, Reflecting electric. H. A. Douglas. No. 1,313,473; Aug. 19; v. 265; p. 356.
- Lamp rim, Reflector-. O. M. Otte. No. 1,322,044; Nov. 18; v. 268; p. 432.
- Lamp, Searchlight arc-. H. Beck. No. 1,313,666; Aug. 19; v. 265; p. 392.
- Lamp, Self-extinguishing. B. Berry. No. 1,291,377; Jan. 14; v. 258; p. 349.
- Lamp, Self-extinguishing. W. A. Smith. No. 1,295,808; Feb. 25; v. 259; p. 747.
- Lamp-shade. M. Herskovitz. No. 1,291,510; Jan. 14; v. 258; p. 380.
- Lamp-shade. E. Karfiol. No. 1,310,347; July 15; v. 264; p. 495.
- Lamp-shade. A. G. Kaufman. No. 1,319,092; Oct. 21; v. 267; p. 359.
- Lamp-shade. R. A. Spellman. No. 1,309,263; July 8; v. 264; p. 259.
- Lamp-shade. E. H. Strauss. No. 1,310,378; July 15; v. 264; p. 501.
- Lamp-shade and similar plaited article. A. Krauss. No. 1,302,382; Apr. 29; v. 261; p. 917.
- Lamp shade, Automobile-. F. J. Dole. No. 1,304,860; May 27; v. 262; p. 550.
- Lamp shade or reflector. I. Libson. No. 1,291,945; Jan. 21; v. 258; p. 517.
- Lamp, Signal-. C. E. Archer. No. 1,301,994; Apr. 29; v. 261; p. 844.
- Lamp, Signal-. C. E. Archer and E. C. Humphreys. No. 1,309,392; July 8; v. 264; p. 283.
- Lamp, Signal-. F. D. Spear. No. 1,314,097; Aug. 26; v. 265; p. 508.
- Lamp-socket. O. Kupferman. No. 1,301,457; Apr. 22; v. 261; p. 710.
- Lamp-socket. M. W. Morse. No. 1,301,152; Apr. 22; v. 261; p. 650.
- Lamp-socket. R. R. Root. No. 1,312,360; Aug. 5; v. 265; p. 94.
- Lamp-socket. D. N. Thompson. No. 1,313,139; Aug. 12; v. 265; p. 278.
- Lamp-socket. F. W. Turner, M. Leffler, and C. Douglas. No. 1,293,989; Feb. 11; v. 259; p. 268.
- Lamp-socket cap, Electric-. A. W. Limont. No. 1,325,875; Dec. 23; v. 269; p. 622.
- Lamp socket, Electric-. A. H. Nero. No. 1,316,459; Sept. 16; v. 266; p. 388.
- Lamp-socket holder. C. E. Capito. No. 1,301,542; Apr. 22; v. 261; p. 726.
- Lamp socket, Incandescent-electric-. R. B. Wolcott. No. 1,322,989; Nov. 25; v. 268; p. 661.
- Lamp-socket switch. R. C. Pfeager. No. 1,295,588; Feb. 25; v. 259; p. 696.
- Lamp-socket, Weatherproof plural. A. C. Recker. No. 1,300,774; Apr. 15; v. 261; p. 533.
- Lamp-sockets, Lamp-clamping attachment for. B. J. Grigsby. No. 1,316,711; Sept. 23; v. 266; p. 485.
- Lamp, Spot-. E. G. K. Anderson. No. 1,309,714; July 15; v. 264; p. 381.
- Lamp-stand, Portable. W. D. Herwig, Jr. No. 1,303,061; May 6; v. 262; p. 111.
- Lamp standard, Electric-. W. A. Taylor. No. 1,309,375; July 8; v. 264; p. 280.
- Lamp, Street-. E. F. Guth. No. 1,325,940; Dec. 23; v. 269; p. 633.
- Lamp-support. P. Alwen. No. 1,299,533; Apr. 8; v. 261; p. 237.
- Lamp-support. G. C. Mather. No. 1,320,775; Nov. 4; v. 268; p. 78.
- Lamp support, Electric-. C. U. Widmer. No. 1,305,852; June 3; v. 263; p. 118.
- Lamp-supporting clamp, Vehicle-. J. Berg. No. 1,300,328; Apr. 15; v. 261; p. 439.
- Lamp-supporting device. M. Kossmann. No. 1,305,122; May 27; v. 262; p. 599.
- Lamp-supporting device. M. Kossmann. No. 1,326,671; Dec. 30; v. 269; p. 807.
- Lamp, Testing-. F. Proksch. No. 1,313,952; Aug. 26; v. 265; p. 481.
- Lamp, Therapeutic. J. J. Heitz. No. 1,318,751; Oct. 14; v. 267; p. 269.
- Lamp, Trouble-. R. Dixon. No. 1,294,884; Feb. 18; v. 259; p. 512.
- Lamp-voltage-regulating means. E. Bauer. No. 1,323,438; Dec. 2; v. 269; p. 41.
- Lamp-voltage regulator. W. A. Turbayne. No. 1,320,995; Nov. 4; v. 268; p. 120.
- Lamp wrapper, Incandescent-. R. L. Beach. No. 1,312,513; Aug. 12; v. 265; p. 154.
- Lamps, Adjustable fixture for electric. C. A. Hinsdill. No. 1,305,285; June 3; v. 263; p. 11.
- Lamps and the like, Bracket for supporting. P. B. Benkert. No. 1,297,533; Mar. 18; v. 260; p. 446.
- Lamps, Apparatus for basing incandescent. A. Swan. No. 1,306,643; June 10; v. 263; p. 297.
- Lamps, Apparatus for exhausting incandescent. R. Le Rossignol. No. 1,298,569; Mar. 25; v. 260; p. 693.
- Lamps, Control mechanism for gas-. G. Siren. No. 1,318,184; Oct. 7; v. 267; p. 100.

- Lamps, Current-regulator for incandescent. R. T. Chese-man. No. 1,326,645; Dec. 30; v. 269; p. 802.
- Lamps, Detachable holder for battery-. L. Galloway and W. Reussner. No. 1,319,997; Oct. 28; v. 267; p. 554.
- Lamps, Detachable reflector for vehicle-. F. K. Coats. No. 1,314,047; Aug. 26; v. 265; p. 499.
- Lamps, Drawing wire filaments for incandescent electric. F. G. Keyes. No. 1,293,116; Feb. 4; v. 259; p. 33.
- Lamps, Fender for automobile-. C. D. Ryder. No. 1,314,704; Sept. 2; v. 266; p. 44.
- Lamps, Film-socket for series-. A. C. McWilliams. No. 1,314,008; Aug. 26; v. 265; p. 491.
- Lamps, Focusing device for electric. O. and C. Kurz. No. 1,292,616; Jan. 28; v. 258; p. 701.
- Lamps, Fume-absorber for electric. W. R. Mott. No. 1,297,387; Mar. 18; v. 260; p. 416.
- Lamps, Heater attachment for. C. Savitsky. No. 1,316,979; Sept. 23; v. 266; p. 534.
- Lamps, Joint for combined spot-light and trouble. C. P. Klorer. No. 1,309,360; July 8; v. 264; p. 278.
- Lamps, Light control for automobile-. G. L. Hollenbeck. No. 1,309,626; July 15; v. 264; p. 364.
- Lamps, Locking means for incandescent. L. F. Cole. No. 1,314,388; Aug. 26; v. 265; p. 564.
- Lamps, Manufacturing incandescent. M. H. Branin. No. 1,315,813; Sept. 9; v. 266; p. 253.
- Lamps, Means for lighting and extinguishing gas-. F. Swanston. No. 1,307,644; June 24; v. 263; p. 545.
- Lamps or sign structures, Protector for. J. L. Dawes. No. 1,305,696; June 3; v. 263; p. 88.
- Lamps, Protector for electric. G. F. Venn. No. 1,292,383; Jan. 21; v. 258; p. 623.
- Lamps, Shade-holder for electric. W. H. Prickett and J. F. Morton. No. 1,303,112; May 6; v. 262; p. 121.
- Lamps, Shade or reflector for incandescent electric. A. C. Recker. No. 1,320,174; Oct. 28; v. 267; p. 587.
- Lamps, Socket for incandescent. O. Kupferman. No. 1,301,456; Apr. 22; v. 261; p. 710.
- Lamps, Starting device for. G. M. Little. No. 1,308,087; July 1; v. 264; p. 15.
- Lampblack, Manufacture of. T. W. S. Hutchins. No. 1,309,070; July 8; v. 264; p. 224.
- Lampblack, Producing. L. Bendit. No. 1,304,729; May 27; v. 262; p. 526.
- Land-clearing machine. A Fitzpatrick. No. 1,319,058; Oct. 21; v. 267; p. 353.
- Land-cultivation apparatus. G. F. Cooke. No. 1,323,017; Nov. 25; v. 268; p. 667.
- Land-drainage system. E. B. Davis. No. 1,323,027; Nov. 25; v. 268; p. 668.
- Land-leveler. H. A. Lage. No. 1,294,812; Feb. 18; v. 259; p. 495.
- Land-roller. R. E. Dunham. No. 1,298,482; Mar. 25; v. 260; p. 675.
- Land-roller. G. E. Karl. No. 1,298,511; Mar. 25; v. 260; p. 682.
- Land-roller. G. E. Karl. No. 1,305,652; June 3; v. 263; p. 80.
- Landing and launching device for floating structures. H. O. Short. No. 1,320,180; Oct. 28; v. 267; p. 588.
- Landing device, Variable-. F. C. Furlow. No. 1,305,594; June 3; v. 263; p. 70.
- Lantern. J. H. Dean. No. 1,322,231; Nov. 18; v. 268; p. 467.
- Lantern. C. H. Estes. No. 1,321,192; Nov. 11; v. 268; p. 221.
- Lantern. A. J. Johnson. No. 1,309,893; July 15; v. 264; p. 414.
- Lantern. J. N. Klema. No. 1,313,390; Aug. 19; v. 265; p. 340.
- Lantern. J. H. Klema. No. 1,323,698; Dec. 2; v. 269; p. 89.
- Lantern. L. W. Nicols. No. 1,298,084; Mar. 25; v. 260; p. 589.
- Lantern. H. A. Woods. No. 1,310,150; July 15; v. 264; p. 460.
- Lantern, Collapsible. G. Patterson. No. 1,304,088; May 20; v. 262; p. 365.
- Lantern, Collapsible. M. A. Skall. No. 1,318,614; Oct. 14; v. 267; p. 243.
- Lantern, Diver's. W. T. Coulson. No. 1,308,579; July 1; v. 264; p. 104.
- Lantern, Electric. H. C. Breckenridge. No. 1,319,638; Oct. 21; v. 267; p. 464.
- Lantern, Folding. C. H. Stonebridge. No. 1,298,116; Mar. 25; v. 260; p. 596.
- Lantern hook and handle, Combined. J. W. Knoblock. No. 1,301,574; Apr. 22; v. 261; p. 731.
- Lantern, Portable electric. W. Grother. No. 1,291,483; Jan. 14; v. 258; p. 374.
- Lantern, Portable electric. W. Grether. No. 1,301,253; Apr. 22; v. 261; p. 670.
- Lantern, Signal-. J. O. Gargan. No. 1,291,825; Jan. 21; v. 258; p. 486.
- Lantern, Signal-. G. M. Gray. No. 1,304,560; May 27; v. 262; p. 495.
- Lantern, Signal-. T. M. Richards. No. 1,309,155; July 8; v. 264; p. 240.
- Lantern, Signal-. A. A. Ziegler. No. 1,290,471; Jan. 7; v. 258; p. 111.
- Lantern-slide. C. I. Berg. No. 1,291,375; Jan. 14; v. 258; p. 348.
- Lanterns, Egg-candling attachment for portable. H. A. Woods. No. 1,311,106; July 22; v. 264; p. 667.
- Lanterns, Switch construction for. H. Woods. No. 1,304,925; May 27; v. 262; p. 562.
- Lap-machine. J. P. Glashtower. No. 1,300,159; Apr. 8; v. 261; p. 376.
- Lap-ring. T. J. Dawson. No. 1,314,637; Sept. 2; v. 266; p. 31.
- Lap-seam gage. A. C. Eastman. No. 1,325,629; Dec. 23; v. 269; p. 575.
- Lapping-machine. H. Brown. No. 1,295,962; Mar. 4; v. 260; p. 32.
- Lard-can. J. Dister. No. 1,316,285; Sept. 16; v. 266; p. 355.
- Lard-cracklings process and product. W. B. Albright. No. 1,317,675; Oct. 7; v. 267; p. 3.
- Last. M. C. Chapman. No. 1,320,202; Oct. 28; v. 267; p. 592.
- Last. G. Clausung. No. 1,295,273; Feb. 25; v. 259; p. 623.
- Last. L. K. Ellis. No. 1,290,141; Jan. 7; v. 258; p. 31.
- Last. K. Engel. No. 1,306,108; June 10; v. 263; p. 195.
- Last. E. B. Grush. No. 1,295,890; Mar. 4; v. 260; p. 16.
- Last. J. J. Heys. No. 1,312,543; Aug. 12; v. 265; p. 160.
- Last. F. H. Kober. No. 1,295,332; Feb. 25; v. 259; p. 636.
- Last. G. Lindberg. No. 1,325,023; Dec. 16; v. 269; p. 445.
- Last. J. R. McLaughlan. No. 1,310,762; July 22; v. 264; p. 604.
- Last. D. J. Powell. No. 1,322,467; Nov. 18; v. 268; p. 512.
- Last and making same, Re-formed. S. C. Mason. No. 1,322,253; Nov. 18; v. 268; p. 471.
- Last, Boot-. H. Müller. No. 1,296,996; Mar. 11; v. 260; p. 303.
- Last, Hinged. C. E. Kershaw. No. 1,311,523; July 29; v. 264; p. 779.
- Last-lathe. L. B. Whipple. No. 1,293,276; Feb. 4; v. 259; p. 70.
- Last-pulling machine. E. Brothers. No. 1,291,757; Jan. 21; v. 258; p. 469.
- Last-securing means, Shoe-. J. W. Fee and D. Morey. No. 1,295,467; Feb. 25; v. 259; p. 667.
- Lasts and shoes, Machine for separating. J. M. Benjamin. No. 1,299,816; Apr. 8; v. 261; p. 301.
- Lasted shoes, Machine for preparing and shaping the bottoms of. S. J. Wentworth. No. 1,297,426; Mar. 18; v. 260; p. 424.
- Lasting and sewing machine. F. Ricks. No. 1,321,148; Nov. 11; v. 268; p. 212.
- Lasting-machine. C. M. Bagshaw. No. 1,318,827; Oct. 14; v. 267; p. 284.
- Lasting-machine. N. P. Bolin. No. 1,309,716; July 15; v. 264; p. 381.
- Lasting-machine. J. H. Hamilton. No. 1,319,278; Oct. 21; v. 267; p. 395.
- Lasting-machine. A. E. Jerram and F. B. Keall. No. 1,305,217; May 27; v. 262; p. 617.
- Lasting-machine. F. W. Merrick. No. 1,301,726; Apr. 22; v. 261; p. 761.
- Lasting-machine. F. W. Merrick. No. 1,323,714; Dec. 2; v. 269; p. 92.
- Lasting-machine. F. W. Merrick. No. 1,324,403; Dec. 9; v. 269; p. 238.
- Lasting-machine. C. De Minico. No. 1,295,129; Feb. 25; v. 259; p. 591.
- Lasting-machine. A. Perri. No. 1,290,651; Jan. 7; v. 258; p. 154.
- Lasting-machine. W. E. Scarlett and C. F. Adams. No. 1,313,121; Aug. 12; v. 265; p. 274.
- Lasting-machine hold-down. M. Brock. No. 1,291,755; Jan. 21; v. 258; p. 469.
- Lasting machine, Side-. M. F. Brogan. No. 1,291,756; Jan. 21; v. 258; p. 469.
- Lasting-machine toe-rest. J. J. Dolan. No. 1,295,135; Feb. 25; v. 259; p. 592.
- Lasting-machines, End-wiper mechanism for. M. Brock. No. 1,303,847; May 20; v. 262; p. 322.
- Latch. C. E. Anderson. No. 1,298,272; Mar. 25; v. 260; p. 631.
- Latch. W. H. Appleby. No. 1,304,244; May 20; v. 262; p. 394.
- Latch. E. O. Bulman. No. 1,324,953; Dec. 16; v. 269; p. 433.
- Latch. W. H. Burk. No. 1,301,814; Apr. 29; v. 261; p. 809.
- Latch. J. M. and J. H. Decker. No. 1,319,569; Oct. 21; v. 267; p. 451.
- Latch. A. Maurer and F. J. von Kaentzel. No. 1,317,092; Sept. 23; v. 266; p. 555.
- Latch. A. F. Winters. No. 1,292,552; Jan. 28; v. 258; p. 685.
- Latch. A. F. Winters. No. 1,292,553; Jan. 28; v. 258; p. 686.
- Latch and bolt, Spring-. E. W. Welland. No. 1,315,266; Sept. 9; v. 266; p. 155.
- Latch and bumper, Door-. E. W. Welland. No. 1,300,530; Apr. 15; v. 261; p. 482.



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- Latch and lock, Combined. V. W. and O. D. Hoover. No. 1,296,393; Mar. 4; v. 260; p. 131.
- Latch, Antirattle door-. W. R. Herby. No. 1,318,382; Oct. 14; v. 267; p. 199.
- Latch, Antirattling door-. A. Zwierzina. No. 1,325,970; Dec. 23; v. 269; p. 639.
- Latch, Automatic door-. E. Heinemann. No. 1,301,260; Apr. 22; v. 261; p. 672.
- Latch, Automatic hasp-. L. B. and N. Goldberg. No. 1,322,105; Nov. 18; v. 268; p. 442.
- Latch, Automobile door-. L. Rehdorf. No. 1,316,595; Sept. 23; v. 266; p. 463.
- Latch, Crib drop-side-. A. F. Kunze. No. 1,306,598; June 10; v. 263; p. 288.
- Latch, Door-. H. Blye. No. 1,310,600; July 22; v. 264; p. 574.
- Latch, Door-. F. S. Budajl. No. 1,294,612; Feb. 18; v. 259; p. 448.
- Latch, Door-. A. G. and W. G. Irwin. No. 1,314,268; Aug. 26; v. 265; p. 541.
- Latch, Door-. F. R. Kurelich. No. 1,319,011; Oct. 14; v. 267; p. 319.
- Latch, Door-. J. J. Malone. No. 1,302,063; Apr. 29; v. 261; p. 857.
- Latch, Door-. J. P. Silva. No. 1,301,326; Apr. 22; v. 261; p. 685.
- Latch, Door-. G. W. Stiff. No. 1,302,873; May 6; v. 262; p. 75.
- Latch, Door-. C. E. Summers. No. 1,319,187; Oct. 21; v. 267; p. 379.
- Latch, Door-. J. Vaudreull. No. 1,298,266; Mar. 25; v. 260; p. 630.
- Latch for car and other doors, Side-dump-door. W. B. Gregg. No. 1,291,847; Jan. 21; v. 258; p. 491.
- Latch for presses, Safety-. R. Hoelemann. No. 1,319,078; Oct. 21; v. 267; p. 357.
- Latch for sliding doors. W. J. Nelson. No. 1,314,978; Sept. 2; v. 266; p. 93.
- Latch, Gate-. H. H. Drew. No. 1,322,883; Nov. 25; v. 268; p. 641.
- Latch, Gate-. J. T. Mair. No. 1,324,428; Dec. 9; v. 269; p. 272.
- Latch, Gate-. S. B. McKnight. No. 1,326,278; Dec. 30; v. 269; p. 733.
- Latch, Gate-. M. B. Moyer. No. 1,301,153; Apr. 22; v. 261; p. 650.
- Latch, Gate-. L. J. H. Newman. No. 1,307,789; June 24; v. 263; p. 571.
- Latch, Gate-. C. C. Ross. No. 1,312,051; Aug. 5; v. 265; p. 37.
- Latch, Gate-. B. F. Wright. No. 1,320,955; Nov. 4; p. 268; p. 113.
- Latch, Gate or door. C. A. Torneden. No. 1,322,272; Nov. 18; v. 268; p. 475.
- Latch, Gravity-. H. Blye. No. 1,294,227; Feb. 11; v. 259; p. 324.
- Latch, Grip-. W. R. Grotjohann and O. D. Green. No. 1,299,460; Apr. 8; v. 261; p. 220.
- Latch, Hood-. J. F. White. No. 1,300,797; Apr. 15; v. 261; p. 338.
- Latch-key carrier. R. C. Hansgen. No. 1,313,851; Aug. 19; v. 265; p. 427.
- Latch-lock, Combination. R. S. Bonilla. No. 1,325,346; Dec. 16; v. 269; p. 506.
- Latch mechanism. W. M. Wampler and G. E. Henry. No. 1,318,626; Oct. 14; v. 267; p. 246.
- Latch, Refrigerator-door. J. Portesi. No. 1,302,846; May 6; v. 262; p. 70.
- Latch, Screen-door. J. R. Plants. No. 1,293,911; Feb. 11; v. 259; p. 248.
- Latch, Spring safety-. R. Hoelemann. No. 1,310,018; July 15; v. 264; p. 436.
- Latching mechanism. C. Schutz. No. 1,315,991; Sept. 16; v. 266; p. 301.
- Latex and product thereof, Treating. E. M. Slocum. No. 1,306,838; June 17; v. 263; p. 365.
- Lath-board, Forming. S. M. Ford. No. 1,293,072; Feb. 4; v. 259; p. 24.
- Lath-board, Machine for making. S. M. Ford. No. 1,297,304; Mar. 11; v. 260; p. 370.
- Lath, Composition. T. J. Fraber. No. 1,325,241; Dec. 16; v. 269; p. 487.
- Lath, Expanded board. J. A. Waller. No. 1,314,107; Aug. 26; v. 265; p. 510.
- Lath, Expanded wood. J. A. Waller. No. 1,314,106; Aug. 26; v. 265; p. 510.
- Lath-mill bolter. C. C. Malcomb. No. 1,299,752; Apr. 8; v. 261; p. 287.
- Lath or the like, Making plaster. J. P. Sexton. No. 1,301,513; Apr. 22; v. 261; p. 720.
- Lath, Plaster. J. P. Sexton. No. 1,298,411; Mar. 25; v. 260; p. 659.
- Lath, Plaster-board. J. Schumacher. No. 1,308,724; July 1; v. 264; p. 132.
- Laths, Machine for expanding metal. F. C. Arey. No. 1,318,951; Oct. 14; v. 267; p. 308.
- Laths, Making expanded ribbed metal. F. C. Arey. No. 1,318,952; Oct. 14; v. 267; p. 308.
- Lather's and carpenter's mechanical outfit. A. Dozier. No. 1,292,728; Jan. 28; v. 258; p. 727.
- Lathing material. A. W. Herbert. No. 1,303,313; May 13; v. 262; p. 186.
- Lathe. W. D. Clement. No. 1,319,645; Oct. 21; v. 267; p. 466.
- Lathe. W. F. Groene and W. G. Hoelscher. No. 1,314,744; Sept. 2; v. 266; p. 51.
- Lathe. I. E. Hindman. No. 1,323,633; Dec. 2; v. 269; p. 76.
- Lathe. A. R., L. B., and W. T. Marsh. No. 1,320,162; Oct. 28; v. 267; p. 585.
- Lathe. W. Podmore. No. 1,309,046; July 8; v. 264; p. 220.
- Lathe. G. D. and O. J. Sundstrand. No. 1,325,424; Dec. 16; v. 269; p. 520.
- Lathe, Artificial-limb. J. F. Wireback. No. 1,291,332; Jan. 14; v. 258; p. 338.
- Lathe attachment, Engine-. G. E. Robinson. No. 1,306,720; June 17; v. 263; p. 343.
- Lathe attachment, Screw-cutting-. L. E. Wood. No. 1,297,285; Mar. 11; v. 260; p. 365.
- Lathe attachments, Indexing attachment for. G. F. Woolston. No. 1,294,215; Feb. 11; v. 259; p. 321.
- Lathe, Automatic. H. H. Lawrence. No. 1,305,473; June 3; v. 263; p. 46.
- Lathe, Automatic. W. L. Schellenbach. No. 1,322,352; Nov. 18; v. 268; p. 490.
- Lathe, Automatic turret-. J. C. Potter. No. 1,293,913; Feb. 11; v. 259; p. 248.
- Lathe, Backing-off. H. Hampe. No. 1,320,468; Nov. 4; v. 268; p. 21.
- Lathe broaching attachment. F. H. Mayoh. No. 1,319,482; Oct. 21; v. 267; p. 435.
- Lathe-center. E. Flicke. No. 1,326,653; Dec. 30; v. 269; p. 804.
- Lathe-center, Adjustable-point. G. C. Robinson. No. 1,317,894; Oct. 7; v. 267; p. 44.
- Lathe-chuck. A. M. Gydesen. No. 1,312,628; Aug. 12; v. 265; p. 177.
- Lathe-chuck. H. W. Thompson. No. 1,320,660; Nov. 4; v. 268; p. 56.
- Lathe, Contour-. E. J. Kerns. No. 1,307,499; June 24; v. 263; p. 519.
- Lathe cross-slide mechanism. F. Hardinge. No. 1,290,550; Jan. 7; v. 258; p. 129.
- Lathe cylinder-boring attachment. W. Aab. No. 1,295,251; Feb. 25; v. 259; p. 618.
- Lathe-dog. J. M. Crosswicks. No. 1,304,663; May 27; v. 262; p. 513.
- Lathe-dog. M. E. Pester. No. 1,299,772; Apr. 8; v. 261; p. 293.
- Lathe drive-dog. A. H. Wells and J. D. Kellogg. No. 1,323,133; Nov. 25; v. 268; p. 688.
- Lathe drive-dog. A. H. Wells and J. D. Kellogg. No. 1,323,134; Nov. 25; v. 268; p. 688.
- Lathe-driving mechanism. W. Sadoske. No. 1,294,952; Feb. 18; v. 259; p. 527.
- Lathe, Fluid-operated. H. E. Warren. No. 1,299,883; Apr. 8; v. 261; p. 317.
- Lathe, Manufacturer's. A. Kramer. No. 1,298,967; Apr. 1; v. 261; p. 81.
- Lathe, Metal-working. H. E. R. Thomas and F. G. Tams. No. 1,317,766; Oct. 7; v. 267; p. 20.
- Lathe, Milling-. A. Lane and T. More. No. 1,301,951; Apr. 29; v. 261; p. 836.
- Lathe milling attachment. A. R. Neff. No. 1,299,759; Apr. 8; v. 261; p. 289.
- Lathe, Multiple-cutter. M. H. Lyons. No. 1,294,500; Feb. 18; v. 259; p. 422.
- Lathe, Multiple-spindle. O. A. Smith. No. 1,318,116; Oct. 7; v. 267; p. 85.
- Lathe, Portable electric grinding and polishing. E. Porter. No. 1,326,091; Dec. 23; v. 269; p. 662.
- Lathe, Relieving-. F. Müller. No. 1,299,207; Apr. 1; v. 261; p. 134.
- Lathe, Relieving-. F. Müller. No. 1,299,208; Apr. 1; v. 261; p. 134.
- Lathe-relieving attachment. P. Plantinga. No. 1,291,118; Jan. 14; v. 258; p. 290.
- Lathe-rest. O. O. Curtis. No. 1,316,535; Sept. 16; v. 266; p. 404.
- Lathe rest-bar. L. F. Gunther. No. 1,292,456; Jan. 28; v. 258; p. 661.
- Lathe, Spar-. R. C. Turner. No. 1,295,392; Feb. 25; v. 259; p. 651.
- Lathe-tailstock. F. Müller. No. 1,318,223; Oct. 7; v. 267; p. 108.
- Lathe-tool. J. A. Anderson. No. 1,290,040; Jan. 7; v. 258; p. 6.
- Lathe-tool. G. W. Dover. No. 1,301,236; Apr. 22; v. 261; p. 667.
- Lathe-tool. F. H. Halstead. No. 1,299,710; Apr. 8; v. 261; p. 277.
- Lathe-tool. F. H. Halstead. No. 1,299,712; Apr. 8; v. 261; p. 277.
- Lathe-tool. L. E. Hunt. No. 1,319,585; Oct. 21; v. 267; p. 454.
- Lathe-tool, Combination. J. Waczula. No. 1,300,204; Apr. 8; v. 261; p. 386.
- Lathe, Turret-. J. J. Barker. No. 1,316,075; Sept. 16; v. 266; p. 316.
- Lathe, Turret-. J. C. Potter. No. 1,294,158; Feb. 11; v. 259; p. 307.
- Lathe, Veneer-. W. E. Stafford. No. 1,293,230; Feb. 4; v. 259; p. 58.

- Lathe, Wood-turning. M. Sopcese. No. 1,314,544; Sept. 2; v. 266; p. 13.
- Lathes, Adjustable cutting-head for. S. Hough. No. 1,301,699; Apr. 22; v. 261; p. 756.
- Lathes, Attachment for. J. J. Schurger. No. 1,307,520; June 24; v. 263; p. 523.
- Lathes, Automatic feed for. S. Hough. No. 1,297,690; Mar. 18; v. 260; p. 480.
- Lathes, Automatic gear-shift for. O. O. Curtis. No. 1,293,629; Feb. 4; v. 259; p. 152.
- Lathes, Boring-bar for. C. V. Greenamyer. No. 1,319,664; Oct. 21; v. 267; p. 469.
- Lathes, Carriage or saddle guide for. E. A. Eriksson. No. 1,315,917; Sept. 9; v. 266; p. 273.
- Lathes, Cutter-head for last. C. P. Morton. No. 1,326,135; Dec. 23; v. 269; p. 669.
- Lathes, Feed-stop for. C. Keller. No. 1,316,162; Sept. 16; v. 266; p. 332.
- Lathes, Key-cutting attachment for. J. V. Carithers. No. 1,323,744; Dec. 2; v. 269; p. 97.
- Lathes, Milling attachment for. J. H. Paschall. No. 1,318,688; Oct. 14; v. 267; p. 257.
- Lathes, Power-operated tailstock for. A. H. Ingle. No. 1,326,597; Dec. 30; v. 269; p. 794.
- Lathes, Quartering attachment for driving-wheel. S. W. Putnam, 3d. No. 1,326,783; Dec. 30; v. 269; p. 829.
- Lathes, Tool-holder for. E. I. Hunt. No. 1,304,051; May 20; v. 262; p. 359.
- Lathes, Tool-holder for. H. P. Palmer. No. 1,323,092; Nov. 25; v. 268; p. 681.
- Lathes, Tool-mounting for. S. W. Putnam, 3d. No. 1,326,138; Dec. 23; v. 269; p. 670.
- Lathes, Tool-support for. E. J. and G. C. Du Bois. No. 1,323,682; Dec. 2; v. 269; p. 86.
- Lathes, Universal dividing attachment for. E. N. Moor. No. 1,311,455; July 29; v. 264; p. 765.
- Latrine. J. G. McIlroy. No. 1,294,687; Feb. 18; v. 258; p. 466.
- Latrine-seats, Cover for. M. Mason. No. 1,313,236; Aug. 12; v. 265; p. 296.
- Laundry-bag, Trunk. G. H. Wheary. No. 1,314,555; Sept. 2; v. 266; p. 15.
- Laundry, Booth for classifying, marking, and enumerating. R. H. Tuynner. No. 1,295,641; Feb. 25; v. 259; p. 708.
- Laundry clip or tag. G. H. Williams. No. 1,292,198; Jan. 21; v. 258; p. 580.
- Laundry-drying appliance. W. Lucoff. No. 1,310,424; July 22; v. 264; p. 542.
- Laundry-hanger. N. Orloff. No. 1,301,494; Apr. 22; v. 261; p. 717.
- Laundry-machine. F. A. Holsinger. No. 1,310,657; July 22; v. 264; p. 584.
- Laundry-machine. J. F. Smrz. No. 1,302,868; May 6; v. 262; p. 74.
- Laundry-machine. J. W. Spaulding. No. 1,304,712; May 27; v. 262; p. 523.
- Laundry-machines, Controlling mechanism for. T. Birkenmaier. No. 1,312,431; Aug. 5; v. 265; p. 109.
- Laundry-pin, Automatic locking. F. M. Henshaw. No. 1,325,093; Dec. 16; v. 269; p. 459.
- Laundry-registering apparatus. C. A. Bunker. No. 1,311,315; July 29; v. 264; p. 739.
- Laundry-sorting booth. R. H. Tyner. No. 1,321,953; Nov. 18; v. 268; p. 415.
- Laundry, Sorting-rack for rough-dry. F. L. Auerochs. No. 1,306,297; June 10; v. 263; p. 233.
- Laundrying device. F. Schwarz. No. 1,293,212; Feb. 4; v. 259; p. 55.
- Lavatory. W. E. Hinsdale. No. 1,300,268; Apr. 15; v. 261; p. 426.
- Lavatory, Automobile. W. A. Debuff. No. 1,309,512; July 8; v. 264; p. 306.
- Lavatories, Vent-T for. F. W. Robertshaw. No. 1,292,517; Jan. 28; v. 258; p. 676.
- Lawn-edge trimmer. J. E. Gilson. No. 1,325,014; Dec. 16; v. 269; p. 444.
- Lawn-edge trimmer. Combination. J. Sopousek. No. 1,313,866; Aug. 19; v. 265; p. 430.
- Lawn-mower. F. H. McLain. No. 1,315,977; Sept. 16; v. 266; p. 298.
- Lawn-mower attachment. J. M. Davidson. No. 1,312,618; Aug. 12; v. 265; p. 176.
- Lawn-mowing apparatus. C. C. Worthington. No. 1,293,287; Feb. 4; v. 259; p. 73.
- Lawn-renovator and treating lawns. E. C. Lydon. No. 1,297,198; Mar. 11; v. 260; p. 346.
- Lawn-sprinkler. F. L. Morse. No. 1,307,634; June 24; v. 263; p. 543.
- Lawn-sprinkler. F. E. Roach. No. 1,308,371; July 1; v. 264; p. 66.
- Lawn-trimmer. T. F. Murphy. No. 1,314,535; Sept. 2; v. 266; p. 11.
- Lead acetate, Preparation of. E. Camus, R. Duchemin, and G. Criqueboeuf. No. 1,297,792; Mar. 18; v. 260; p. 503.
- Lead and the like, Extruding. J. Stratton and E. A. Claremont. No. 1,301,882; Apr. 29; v. 261; p. 822.
- Lead arsenate, Making. M. W. Butler. No. 1,324,300; Dec. 9; v. 269; p. 248.
- Lead arsenate, Making. I. P. Lihme. No. 1,302,186; Apr. 29; v. 261; p. 879.
- Lead, Arsenate of. H. B. Goodwin. No. 1,322,008; Nov. 18; v. 268; p. 425.
- Lead, Electrolytic deposition of. D. F. Harbaugh. No. 1,306,479; June 10; v. 263; p. 267.
- Lead, Extraction of. E. S. Berglund. No. 1,306,942; June 17; v. 263; p. 384.
- Lead, Making arsenate of. G. R. Riches and W. C. Piver. No. 1,296,557; Mar. 4; v. 260; p. 166.
- Lead-pencil housing. Collapsible. A. Shatkin. No. 1,292,893; Jan. 28; v. 258; p. 766.
- Lead pigment. J. E. Seeley. No. 1,325,960; Dec. 23; v. 269; p. 637.
- Lead-plating. C. H. Chandler. No. 1,322,408; Nov. 18; v. 268; p. 501.
- Lead products, Manufacturing certain. W. P. Thompson. No. 1,297,934; Mar. 18; v. 260; p. 533.
- Lead-testing apparatus. M. S. Cumner and F. W. Geissenhainer. No. 1,307,847; June 24; v. 263; p. 491.
- Leaf binder, Loose. W. F. Reschke. No. 1,322,344; Nov. 18; v. 268; p. 488.
- Leaf-spring. F. S. Andre. No. 1,290,864; Jan. 14; v. 258; p. 222.
- Leaf-spring. C. P. Murphy. No. 1,314,282; Aug. 26; v. 265; p. 544.
- Leaf-spring. C. P. Schwarz. No. 1,312,139; Aug. 5; v. 265; p. 54.
- Leaf-spring. C. P. Schwarz. No. 1,312,140; Aug. 5; v. 265; p. 54.
- Leaf-spring. B. C. Seaton. No. 1,314,021; Aug. 26; v. 265; p. 494.
- Leaf-spring brace. C. W. Hawkins. No. 1,294,338; Feb. 11; v. 259; p. 349.
- Leaf-spring-forming machine. E. J. Gueotal. No. 1,293,760; Feb. 11; v. 259; p. 213.
- Leaf-springs, Machine for bending. H. Poffinbarger. No. 1,312,268; Aug. 5; v. 265; p. 77.
- Leaf-turner. J. J. Feeney. No. 1,316,436; Sept. 16; v. 266; p. 384.
- Leak-stopper. J. Endreson. No. 1,303,049; May 6; v. 262; p. 108.
- Leather and analogous material, Molding sheets of. J. J. Heys. No. 1,296,518; Mar. 4; v. 260; p. 157.
- Leather and leather substitutes, Preservative for. L. A. Milne. No. 1,307,059; June 17; v. 263; p. 406.
- Leather and producing it, Artificial. R. F. Dyer. No. 1,308,231; July 1; v. 264; p. 41.
- Leather and the like, Porous substitute for. H. F. Kenworthy. No. 1,310,703; July 22; v. 264; p. 593.
- Leather and the like, Waterproof substitute for. H. F. Kenworthy. No. 1,310,624; July 22; v. 264; p. 578.
- Leather, Apparatus for stretching and drying. M. Steinharter. No. 1,310,148; July 15; v. 264; p. 460.
- Leather, Apparatus for the manufacture of substitute hide. E. Weinheim. No. 1,305,848; June 3; v. 263; p. 116.
- Leather bag or case. G. W. Houghton. No. 1,318,276; Oct. 7; v. 267; p. 118.
- Leather-cutting die and making shapes. H. C. Stockman. No. 1,309,157; July 8; v. 264; p. 241.
- Leather-cutting machine. J. J. Cunningham. No. 1,297,108; Mar. 11; v. 260; p. 328.
- Leather-cutting machine. J. Eder. No. 1,293,059; Feb. 4; v. 259; p. 21.
- Leather-cutting machine. T. F. Hickey. No. 1,319,219; Oct. 21; v. 267; p. 384.
- Leather-finishing process. R. L. Smith. No. 1,311,188; July 29; v. 264; p. 715.
- Leather flexing and tempering. Machine for. W. C. Wright. No. 1,313,510; Aug. 19; v. 265; p. 363.
- Leather-folding machine. J. W. Anthony. No. 1,326,826; Dec. 30; v. 269; p. 837.
- Leather-folding machine. J. W. Anthony. No. 1,326,827; Dec. 30; v. 269; p. 837.
- Leather-folding machine. J. W. Anthony. No. 1,326,828; Dec. 30; v. 269; p. 837.
- Leather imitations, felt and Japanese paper, Making products having closed structures, such as. J. Foltzer. No. 1,295,148; Feb. 25; v. 259; p. 595.
- Leather, Machine for cutting blanks from. D. Parks. No. 1,297,899; Mar. 18; v. 260; p. 525.
- Leather, Machine for grooving. A. R. Schoenky. No. 1,296,859; Mar. 11; v. 260; p. 271.
- Leather, Machine for operating upon. L. E. Topham. No. 1,291,661; Jan. 14; v. 258; p. 416.
- Leather, Machine for operating upon. L. E. Topham. No. 1,301,336; Apr. 22; v. 261; p. 688.
- Leather, Manufacture of substitute hide. E. Weinheim. No. 1,306,649; June 10; v. 263; p. 298.
- Leather, Preparing patent. J. McDonald. No. 1,309,863; July 15; v. 264; p. 408.
- Leather product. M. H. Cook. No. 1,309,461; July 8; v. 264; p. 296.
- Leather-splitting machine. J. F. Funck. No. 1,302,651; May 6; v. 262; p. 32.
- Leather-splitting machine. K. Zimmermann. No. 1,326,317; Dec. 30; v. 269; p. 740.
- Leather-stitching machine. R. H. Rudolph. No. 1,295,070; Feb. 18; v. 259; p. 553.
- Leather-stretching machine. P. C. Brown. No. 1,299,672; Apr. 8; v. 261; p. 269.
- Leather substitute. J. D. Prince. No. 1,305,621; June 3; v. 263; p. 76.



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- Leather substitute. M. Scheuer. No. 1,291,180; Jan. 14; v. 258; p. 304.
- Leather substitute and making same. R. B. Respass. No. 1,319,795; Oct. 28; v. 267; p. 516.
- Leather substitute, Composition of matter for use as. J. W. Matthaell. No. 1,326,681; Dec. 30; v. 269; p. 809.
- Leather, Treating. A. J. Hawkins. No. 1,326,261; Dec. 30; v. 269; p. 731.
- Leather, Treating varnished (patent). H. Schulz. No. 1,325,415; Dec. 16; v. 269; p. 518.
- Leather welt-strip. G. A. Chamberlain. No. 1,299,299; Apr. 1; v. 261; p. 155.
- Leather-working machine. J. W. O'Donnell. No. 1,303,840; May 13; v. 262; p. 282.
- Leather-working mechanism. A. D. Boulanger, Jr. No. 1,311,749; July 29; v. 264; p. 820.
- Ledger and statement posting means. C. N. Jackson. No. 1,324,504; Dec. 9; v. 269; p. 288.
- Ledger, Visible-account. S. B. Kirtley. No. 1,291,925; Jan. 21; v. 258; p. 512.
- Leer-charging device. R. La France. No. 1,296,818; Mar. 11; v. 260; p. 261.
- Leer-feeder, Automatic. W. H. Johnson. No. 1,316,160; Sept. 16; v. 266; p. 332.
- Leg and foot rest. W. C. Walker. No. 1,315,264; Sept. 9; v. 266; p. 154.
- Leg, Artificial. E. J. A. Boulanger. No. 1,317,543; Sept. 30; v. 266; p. 677.
- Leg, Artificial. B. Bowler. No. 1,323,444; Dec. 2; v. 269; p. 42.
- Leg, Artificial. O. H. Erickson. No. 1,302,336; Apr. 29; v. 261; p. 908.
- Leg, Artificial. O. H. Erickson. No. 1,303,645; May 13; v. 262; p. 246.
- Leg, Artificial. E. Ernst. No. 1,302,338; Apr. 29; v. 261; p. 908.
- Leg, Artificial. A. E. Gaines and A. A. Erb. No. 1,314,136; Aug. 26; v. 265; p. 515.
- Leg, Artificial. E. Mueller. No. 1,315,323; Sept. 9; v. 266; p. 165.
- Leg-band for poultry, birds, &c. C. L. Stiles. No. 1,321,570; Nov. 11; v. 268; p. 293.
- Leg-coupling. F. Schimmel. No. 1,292,090; Jan. 21; v. 258; p. 554.
- Leg-protector. T. K. Hofto. No. 1,299,574; Apr. 8; v. 261; p. 246.
- Leg-rest. J. C. Brungard. No. 1,297,537; Mar. 18; v. 260; p. 447.
- Leg-rest. C. A. Washburn. No. 1,296,722; Mar. 11; v. 260; p. 239.
- Legs, Crutch extension for artificial. C. E. Frear. No. 1,314,795; Sept. 2; v. 266; p. 60.
- Legging. W. R. Lockhart. No. 1,317,167; Sept. 30; v. 266; p. 606.
- Legging. M. Rosenwasser. No. 1,312,923; Aug. 12; v. 265; p. 234.
- Legging. C. K. Warren. No. 1,324,484; Dec. 9; v. 269; p. 284.
- Leggings, Producing. J. J. Dettling and E. A. Tinsman. No. 1,309,118; July 8; v. 264; p. 233.
- Lens. W. Churchill and E. Pascucci. No. 1,307,579; June 24; v. 263; p. 533.
- Lens. I. M. Clarke. No. 1,315,283; Sept. 9; v. 266; p. 158.
- Lens. C. Graf. No. 1,293,086; Feb. 4; v. 259; p. 27.
- Lens. H. W. Hill. No. 1,321,440; Nov. 11; v. 268; p. 269.
- Lens. C. A. Lester. No. 1,308,431; July 1; v. 264; p. 77.
- Lens. C. E. Quimby. No. 1,303,495; May 13; v. 262; p. 218.
- Lens. E. A. Trapp. No. 1,297,040; Mar. 11; v. 260; p. 313.
- Lens and producing same. G. A. Collins. No. 1,297,660; Mar. 18; v. 260; p. 473.
- Lens and similar apparatus. G. Dalén. No. 1,303,860; May 20; v. 262; p. 324.
- Lens-cleaner. G. Baillie. No. 1,314,116; Aug. 26; v. 265; p. 512.
- Lens, Comparator-. A. B. Wells. No. 1,307,528; June 24; v. 263; p. 524.
- Lens-edge-grinding machine. E. M. Long. No. 1,298,979; Apr. 1; v. 261; p. 84.
- Lens-forming process. A. Pellow. No. 1,312,920; Aug. 12; v. 265; p. 234.
- Lens grinding and polishing machine. A. C. Robertson and F. Volk. No. 1,318,300; Oct. 7; v. 267; p. 123.
- Lens-grinding machine. H. Krieger. No. 1,313,702; Aug. 19; v. 265; p. 399.
- Lens-grinding machinery. C. J. Troppman. No. 1,292,926; Jan. 28; v. 258; p. 774.
- Lens-holder for lens centering, marking, and testing machines. C. J. Gilbert. No. 1,320,542; Nov. 4; v. 268; p. 35.
- Lens-mount. W. R. Uhlemann. No. 1,290,420; Jan. 7; v. 258; p. 98.
- Lens-mount. W. R. Uhlemann. No. 1,323,994; Dec. 2; v. 269; p. 145.
- Lens-mounting. G. A. Rader. No. 1,307,573; June 24; v. 263; p. 532.
- Lens-mounting. G. P. Herrick. No. 1,317,131; Sept. 23; v. 266; p. 563.
- Lens-mounting. W. R. Uhlemann. No. 1,290,419; Jan. 7; v. 258; p. 97.
- Lens, Ophthalmic. H. W. Hill, E. D. Tillyer, and H. H. Styll. No. 1,315,667; Sept. 9; v. 266; p. 226.
- Lens-preparing machine. J. J. Demers, R. L. Gordon, and F. E. Snow. No. 1,294,779; Feb. 18; v. 259; p. 487.
- Lens-surfacing apparatus. Reciprocating. J. H. Pearson. No. 1,317,453; Sept. 30; v. 266; p. 660.
- Lens systems, Apparatus for. O. Henker. No. 1,305,980; June 3; v. 263; p. 142.
- Lenses and apparatus therefor, Manufacture of bifocal. R. J. Fleming. No. 1,305,085; May 27; v. 262; p. 592.
- Lenses, Apparatus for surfacing. J. H. Pearson. (Re-issue). No. 14,666; June 10; v. 263; p. 303.
- Lenses, Combination metal and non-metal rim for eyeglass-. E. R. Durgin. No. 1,325,511; Dec. 23; v. 269; p. 554.
- Lenses, Device for placing bifocal segments on. C. A. Kline. No. 1,323,190; Nov. 25; v. 268; p. 700.
- Lenses, Making bifocal. A. E. Paige. No. 1,302,960; May 6; v. 262; p. 92.
- Lenses, Means for tightening eyeglass-. J. Brisacher. No. 1,304,850; May 27; v. 262; p. 549.
- Lenses, Molding. E. D. Tillyer and H. H. Styll. No. 1,308,820; July 8; v. 264; p. 177.
- Lenses or the like, Finishing the surfaces of. L. W. Bugbee. No. 1,317,481; Sept. 30; v. 266; p. 665.
- Lenses, Process and apparatus for grinding. J. Brockbank. (Reissue). No. 14,751; Nov. 18; v. 268; p. 520.
- Letter and bundle tie. G. Frain. No. 1,316,293; Sept. 16; v. 266; p. 357.
- Letter and document distributor. F. and S. R. Bristow. No. 1,316,015; Sept. 16; v. 266; p. 305.
- Letter-box. W. E. Dreeland. No. 1,326,714; Dec. 30; v. 269; p. 815.
- Letter-box. L. W. Larson. No. 1,299,740; Apr. 8; v. 261; p. 284.
- Letter-card and the like having an opening device. L. Planche. No. 1,299,021; Apr. 1; v. 261; p. 93.
- Letter-case. F. W. Holland. No. 1,310,621; July 22; v. 264; p. 578.
- Letter-drafting instrument. W. Hepfinger. No. 1,307,736; June 24; v. 263; p. 562.
- Letter-guide, Proportional. H. R. Shiffer. No. 1,303,505; May 13; v. 262; p. 220.
- Letter-opener. E. S. Bjonerud. No. 1,308,218; July 1; v. 264; p. 39.
- Letter-opener. F. A. Brey. No. 1,306,945; June 17; v. 263; p. 385.
- Letter-opener. A. Mangini. No. 1,302,308; Apr. 29; v. 261; p. 920.
- Letter or message writing, Combined blank for. A. F. Callahan. No. 1,303,838; May 13; v. 262; p. 282.
- Letter-sealing press. L. L. Litchfield. No. 1,325,895; Dec. 23; v. 269; p. 625.
- Letter-sheet and envelop, Combination. M. Harris. No. 1,313,293; Aug. 19; v. 265; p. 323.
- Letter-sheet and envelop, Combined. S. Brod. No. 1,290,891; Jan. 14; v. 258; p. 236.
- Letter-sheet and envelop, Combined. R. A. Smith. No. 1,318,236; Oct. 7; v. 267; p. 111.
- Letter-sheet and envelop, Combined. C. L. Taggart. No. 1,303,412; May 13; v. 262; p. 203.
- Letter-sheet, envelop, and coin-holder. A. W. Wallmuth. No. 1,306,647; June 10; v. 263; p. 297.
- Letter-sheet guide. H. L. Dunsdon. No. 1,290,131; Jan. 7; v. 258; p. 28.
- Letter sign, Interchangeable. F. M. Whittemore. No. 1,296,246; Mar. 4; v. 260; p. 98.
- Letter-tie. L. M. Lea. No. 1,324,424; Dec. 9; v. 269; p. 272.
- Letters, Process and apparatus for making glass-plate. A. W. Gast. No. 1,308,408; July 1; v. 264; p. 73.
- Lettering-machine. T. D. Hooper, Jr. No. 1,292,319; Jan. 21; v. 258; p. 608.
- Lettering-machine. T. D. Hooper, Jr. No. 1,292,320; Jan. 21; v. 258; p. 609.
- Level. G. B. Conn. No. 1,313,263; Aug. 19; v. 265; p. 317.
- Level. M. H. Constantine. No. 1,294,878; Feb. 18; v. 259; p. 511.
- Level. R. A. Dittrick. No. 1,296,372; Mar. 4; v. 260; p. 126.
- Level. G. C. Powell. No. 1,308,765; July 8; v. 264; p. 167.
- Level. D. A. Ruffin and E. H. Prichard. No. 1,297,914; Mar. 18; v. 260; p. 528.
- Level. W. Salt. No. 1,305,496; June 3; v. 263; p. 50.
- Level. C. Shurter. No. 1,311,423; July 29; v. 264; p. 760.
- Level. F. D. Small. No. 1,320,938; Nov. 4; v. 268; p. 109.
- Level. A. Wichertjes. No. 1,298,844; Apr. 1; v. 261; p. 53.
- Level, Adjustable and registering. A. R. Foyer. No. 1,292,595; Jan. 28; v. 258; p. 696.
- Level and glass. Spirit-. N. Belleville. No. 1,323,148; Nov. 25; v. 268; p. 691.
- Level and grade-finder, Combination. B. J. Collins. No. 1,300,818; Apr. 15; v. 261; p. 543.

- Level and plumb, Combined. H. A. Townsley. No. 1,290,685; Jan. 7; v. 258; p. 163.
- Level and square. J. W. Weston. No. 1,319,545; Oct. 21; v. 267; p. 446.
- Level indicator and alarm, Low-. A. Newell. No. 1,291,088; Jan. 14; v. 258; p. 283.
- Level, Luminous. E. J. Loring. No. 1,318,162; Oct. 7; v. 267; p. 96.
- Level, plumb, and gage, Combined. W. L. Cusick. No. 1,308,699; July 1; v. 264; p. 126.
- Level, Precision-. W. Heusser. No. 1,299,940; Apr. 8; v. 261; p. 328.
- Level, Spirit-. A. J. Ellison. No. 1,298,024; Mar. 25; v. 260; p. 578.
- Level, Universal. W. Faas. No. 1,312,527; Aug. 12; v. 265; p. 156.
- Levels, Stock for spirit-. G. A. Vogel. No. 1,303,829; May 13; v. 262; p. 280.
- Leveler. D. E. Enloe. No. 1,304,952; May 27; v. 262; p. 567.
- Leveling and self-computing cross-section rod, Combined. E. B. Hiatt. No. 1,295,749; Feb. 25; v. 259; p. 733.
- Leveling and stacking match-splints, Machine for. A. F. Nev. No. 1,299,995; Apr. 8; v. 261; p. 340.
- Leveling device. F. C. Furlow. No. 1,315,600; Sept. 9; v. 266; p. 215.
- Leveling instrument. S. Mosher. No. 1,295,352; Feb. 25; v. 259; p. 641.
- Lever. T. Brown and C. G. Strandlund. No. 1,313,253; Aug. 19; v. 265; p. 315.
- Lever. G. C. Pharo. No. 1,306,119; June 10; v. 263; p. 197.
- Lever and coupling-positioning device, Combined uncouplings-. W. P. Murphy. No. 1,314,283; Aug. 26; v. 265; p. 544.
- Lever and support for use with wigglers, Bell-crank. R. F. Frazier. No. 1,306,424; June 10; v. 263; p. 256.
- Lever-controlling lock. A. C. Saxton and H. J. Menard. No. 1,302,976; May 6; v. 262; p. 95.
- Lever extension. A. Mungenast. No. 1,308,990; July 8; v. 264; p. 209.
- Lever, Flush-tank. G. A. Saal. No. 1,318,599; Oct. 14; v. 267; p. 240.
- Lever-lock. G. C. Jensen. No. 1,307,497; June 24; v. 263; p. 519.
- Lever locking-clamp, Single-. J. Graves. No. 1,306,426; June 10; v. 263; p. 257.
- Lever-locking device. R. G. Weissel. No. 1,292,548; Jan. 28; v. 258; p. 684.
- Lever-locking device, Shift-. G. C. Jensen. No. 1,292,328; Jan. 21; v. 258; p. 611.
- Lever mounting, Control-. J. W. Nelson. No. 1,310,955; July 22; v. 264; p. 639.
- Lever, Uncoupling-. N. E. Hirsch. No. 1,303,316; May 13; v. 262; p. 186.
- Levers, Device for locking. G. C. Jensen. No. 1,290,751; Jan. 7; v. 258; p. 178.
- Levers, Device for locking. J. Kirby, Jr. No. 1,310,534; July 22; v. 264; p. 561.
- Levers, Lock for controlling-. A. C. Saxton and H. J. Menard. No. 1,320,800; Nov. 4; v. 268; p. 83.
- Library and dining table, Combination. A. H. Stone. No. 1,325,454; Dec. 16; v. 269; p. 525.
- Library-table. G. A. Spies. No. 1,326,799; Dec. 30; v. 269; p. 832.
- License-display tag. J. W. Hudson. No. 1,293,099; Feb. 4; v. 259; p. 30.
- License-plates, Illuminated. O. S. Gropper. No. 1,315,116; Sept. 2; v. 266; p. 117.
- License-number-display device. C. H. Granberg. No. 1,301,260; Apr. 22; v. 261; p. 670.
- Lid and label holder. A. B. Watts. No. 1,322,380; Nov. 18; v. 268; p. 495.
- Lid, Pan-. J. R. Shawley. No. 1,317,045; Sept. 23; v. 266; p. 546.
- Lid-support. A. F. Zega. No. 1,324,094; Dec. 9; v. 269; p. 208.
- Lid-support, Automatic. C. E. Wilton. No. 1,298,135; Mar. 25; v. 260; p. 601.
- Lid-support, Automatic. C. E. Wilton. No. 1,303,441; May 13; v. 262; p. 299.
- Lid-supporting member. F. Cirelli. No. 1,306,846; June 17; v. 263; p. 366.
- Life at sea, Device for saving. G. Salaman. No. 1,322,828; Nov. 25; v. 268; p. 630.
- Life-buoy. S. P. Edmonds. No. 1,297,665; Mar. 18; v. 260; p. 474.
- Life-preserver. H. A. Ayvad. No. 1,290,043; Jan. 7; v. 258; p. 7.
- Life-preserver. A. D. Bailey. No. 1,313,936; Aug. 26; v. 265; p. 477.
- Life-preserver. D. Del Re. No. 1,292,587; Jan. 28; v. 258; p. 695.
- Life-preserver. S. P. Edmonds. No. 1,295,715; Feb. 25; v. 259; p. 726.
- Life-preserver. W. H. and W. H. de Fontaine, Jr. No. 1,290,927; Jan. 14; v. 258; p. 246.
- Life-preserver. H. W. Gain. No. 1,301,831; Apr. 29; v. 261; p. 812.
- Life-preserver. F. Marcovsky. No. 1,302,823; May 6; v. 262; p. 65.
- Life-preserver. S. Müller. No. 1,324,514; Dec. 9; v. 269; p. 290.
- Life-preserver. C. M. Primm. No. 1,307,752; June 24; v. 263; p. 565.
- Life-preserver. O. J. St. Pierre. No. 1,316,816; Sept. 23; v. 266; p. 504.
- Life-preserver. F. Stebbing. No. 1,297,270; Mar. 11; v. 260; p. 362.
- Life-preserver having removable buoyant members, Coat-type. S. P. Edmonds. No. 1,291,448; Jan. 14; v. 258; p. 366.
- Life-preserver's suit. B. C. Teeters. No. 1,308,561; July 1; v. 264; p. 101.
- Life-preserving jacket, Marine. H. L. Ziman. No. 1,295,667; Feb. 25; v. 259; p. 715.
- Life-protecting body-guard. E. R. Talley. No. 1,290,799; Jan. 7; v. 258; p. 189.
- Life-rafts and steamer-trunks, Closure for combined. M. A. Gulbrandsen. No. 1,295,737; Feb. 25; v. 259; p. 730.
- Life-saving apparatus. M. Field and H. A. Schliek. No. 1,303,872; May 20; v. 262; p. 326.
- Life-saving appliance, Inflatable marine. D. J. Smith. No. 1,301,515; Apr. 22; v. 261; p. 721.
- Life-saving device. A. A. Kebl. No. 1,296,967; Mar. 11; v. 260; p. 296.
- Life-saving device, Automatic. J. Horák. No. 1,306,011; June 10; v. 263; p. 177.
- Life-saving garment. E. M. Lowy. No. 1,291,648; Jan. 14; v. 258; p. 413.
- Life-saving garment. E. M. Lowy. No. 1,291,649; Jan. 14; v. 258; p. 413.
- Life-saving garment. E. M. Lowy. No. 1,291,650; Jan. 14; v. 258; p. 413.
- Life-saving rocket and grapnel. J. C. Hall. No. 1,315,721; Sept. 9; v. 266; p. 236.
- Life-saving suit. A. G. Alfandri. No. 1,303,144; May 6; v. 262; p. 127.
- Lifeboat. R. Rusk. No. 1,322,957; Nov. 25; v. 268; p. 655.
- Lifeboat, Non-capsizing. L. Cizek. No. 1,326,575; Dec. 30; v. 269; p. 790.
- Lift gates and doors, Combined mechanical lock and electric-circuit breaker for. W. H. Brenner. No. 1,291,750; Jan. 21; v. 258; p. 467.
- Lift, Man-. W. D. Merrill and J. E. Wood. No. 1,297,713; Mar. 18; v. 260; p. 485.
- Lifter. *See—*
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| Automatic lifter.     | Pan-lifter.          |
| Automobile-lifter.    | Plate-lifter.        |
| Cuspidor-lifter.      | Plate or pan lifter. |
| Folding valve-lifter. | Radiator-lifter.     |
| Fruit-jar lifter.     | Sack-lifter.         |
| Invalid-lifter.       | Spring-lifter.       |
| Jar-lifter.           | Valve-lifter.        |
| Jar-lid lifter.       | Valve-spring lifter. |
- Lifter. E. L. Beardsley. No. 1,310,594; July 22; v. 264; p. 572.
- Lifter. L. S. Chawdick. No. 1,298,662; Apr. 1; v. 261; p. 9.
- Lifter. W. D. Hancock. No. 1,309,324; July 8; v. 264; p. 271.
- Lifting and carrying apparatus. J. Shewan. No. 1,317,046; Sept. 23; v. 266; p. 546.
- Lifting and power jack, Automobile. C. Jones. No. 1,320,474; Nov. 4; v. 268; p. 22.
- Lifting appliance. W. B. Templeton. No. 1,321,950; Nov. 18; v. 268; p. 415.
- Lifting appliance. W. B. Templeton. No. 1,325,964; Dec. 23; v. 269; p. 638.
- Lifting device. J. Ledan. No. 1,301,284; Apr. 22; v. 261; p. 677.
- Lifting device. W. P. Todd. No. 1,317,464; Sept. 30; v. 266; p. 662.
- Lifting device or hoist. O. F. Kimmel. No. 1,290,232; Jan. 7; v. 258; p. 53.
- Lifting-jack. J. B. Bristow. No. 1,317,857; Oct. 7; v. 267; p. 37.
- Lifting-jack. J. W. Burgess. No. 1,293,026; Feb. 4; v. 259; p. 13.
- Lifting-jack. W. Clemens. No. 1,298,895; Apr. 1; v. 261; p. 63.
- Lifting-jack. W. H. Firebaugh, Jr. No. 1,295,469; Feb. 25; v. 259; p. 668.
- Lifting-jack. C. W. Fisher. No. 1,305,455; June 3; v. 263; p. 43.
- Lifting-jack. F. L. Gormley. No. 1,315,928; Sept. 9; v. 266; p. 275.
- Lifting-jack. F. L. Gormley. No. 1,324,345; Dec. 9; v. 269; p. 256.
- Lifting-jack. W. H. Griffith. No. 1,315,929; Sept. 9; v. 266; p. 276.
- Lifting-jack. F. A. Guilford. No. 1,323,760; Dec. 2; v. 269; p. 100.
- Lifting-jack. P. J. Harrah. No. 1,307,968; June 24; v. 263; p. 605.
- Lifting-jack. E. G. Hatch. No. 1,321,823; Nov. 18; v. 268; p. 391.
- Lifting-jack. I. E. Hindman. No. 1,316,575; Sept. 23; v. 266; p. 459.
- Lifting-jack. R. B. Jester. No. 1,304,569; May 27; v. 262; p. 496.



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- Lifting-jack. R. B. Jester. No. 1,307,360; June 24; v. 263; p. 493.
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- Lifting-jack. C. M. Jones. No. 1,298,959; Apr. 1; v. 261; p. 79.
- Lifting-jack. H. A. King. No. 1,320,478; Nov. 4; v. 268; p. 23.
- Lifting-jack. J. C. Kopf. No. 1,321,456; Nov. 11; v. 268; p. 271.
- Lifting-jack. G. Lane. No. 1,320,244; Oct. 28; v. 267; p. 600.
- Lifting-jack. G. Lane. No. 1,320,245; Oct. 28; v. 267; p. 601.
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- Lifting-jack. J. A. Marchner. No. 1,324,058; Dec. 9; v. 269; p. 201.
- Lifting-jack. W. S. McQuillin. No. 1,320,402; Nov. 4; v. 268; p. 9.
- Lifting-jack. O. A. Norlund. No. 1,304,358; May 20; v. 262; p. 417.
- Lifting-jack. O. R. Osmun. No. 1,312,568; Aug. 12; v. 265; p. 165.
- Lifting-jack. P. Peterson. No. 1,293,904; Feb. 11; v. 259; p. 247.
- Lifting-jack. H. C. Reuter. No. 1,291,146; Jan. 14; v. 258; p. 296.
- Lifting-jack. C. W. Ripsch. No. 1,318,801; Oct. 14; v. 267; p. 278.
- Lifting-jack. P. J. Sausen. No. 1,309,962; July 15; v. 264; p. 427.
- Lifting-jack. F. Schwarzer. No. 1,304,515; May 20; v. 262; p. 448.
- Lifting-jack. J. B. Smythe. No. 1,303,734; May 13; v. 262; p. 262.
- Lifting-jack. O. G. Wee. No. 1,300,067; Apr. 8; v. 261; p. 355.
- Lifting-jack. L. E. Wilcox. No. 1,314,451; Aug. 26; v. 265; p. 576.
- Lifting-jack and hoist, Combined. J. P. Nikonow. No. 1,295,357; Feb. 25; v. 259; p. 642.
- Lifting-jack and hoist, Combined. J. P. Nikonow. No. 1,295,358; Feb. 25; v. 259; p. 642.
- Lifting-jack, Geared. W. B. Templeton. No. 1,325,962; Dec. 23; v. 269; p. 637.
- Lifting-jack handle. L. Hopcraft. No. 1,324,898; Dec. 16; v. 269; p. 422.
- Lifting-jacks, Brake mechanism for. J. B. Smythe. No. 1,315,874; Sept. 9; v. 266; p. 265.
- Lifting-trap. G. R. Carter. No. 1,303,636; May 13; v. 262; p. 244.
- Light: See—
- Automobile-light.
- Automobile dirigible light.
- Automobile road-light.
- Automobile spot-light.
- Automobile tail-end light.
- Baker's-oven light.
- Cash-register light.
- Electric light.
- Electric-arc light.
- Electric drop-light.
- Electric spot-light.
- Flash-light.
- Guide-light.
- Head and flood light.
- Head-carrier light.
- Headlight.
- Night-light.
- Photographer's flash-light.
- Pilot-light.
- Pocket flash-light.
- Portable light.
- Search-light.
- Seawalk-light.
- Spot-light.
- Vehicle-curtain light.
- Vehicle signal and rear light.
- Light-bulb protector. H. H. Bailey. No. 1,290,482; Jan. 7; v. 258; p. 113.
- Light-controller, Automatic. E. G. Wentworth. No. 1,319,818; Oct. 28; v. 267; p. 521.
- Light-deflecting apparatus. H. Cave. No. 1,321,418; Nov. 11; v. 268; p. 264.
- Light-dimmer. H. E. May. No. 1,307,746; June 24; v. 263; p. 563.
- Light-dividing device. W. H. Kunz. No. 1,319,292; Oct. 21; v. 267; p. 398.
- Light-effect-controlling apparatus. L. McCormick. No. 1,291,964; Jan. 21; v. 258; p. 522.
- Light hanger, Tail-. C. F. Taylor. No. 1,294,968; Feb. 18; v. 259; p. 530.
- Light, New compound showing variable resistances under the influence of. T. W. Case. No. 1,316,220; Sept. 16; v. 266; p. 343.
- Light projection. H. P. Hollnagel. No. 1,302,924; May 6; v. 262; p. 85.
- Light-projection apparatus. O. E. Conklin and H. P. Hollnagel. No. 1,299,397; Apr. 1; v. 261; p. 177.
- Light-reactive resistance and forming same. T. W. Case. No. 1,316,359; Sept. 16; v. 266; p. 368.
- Light-reflector, vase, or the like, Article adapted to be used as. H. Ford. No. 1,313,806; Aug. 19; v. 265; p. 419.
- Light-shield. C. E. Stevens. No. 1,316,654; Sept. 23; v. 266; p. 474.
- Light-signal. C. S. Snavely. No. 1,298,809; Apr. 1; v. 261; p. 45.
- Light-support. T. Bermen. No. 1,314,120; Aug. 26; v. 265; p. 513.
- Light-support. J. A. Tagert. No. 1,326,221; Dec. 30; v. 269; p. 723.
- Lights, Control for tail-. H. A. Wilkinson and W. B. Nixdorf, Jr. No. 1,313,847; Aug. 19; v. 265; p. 426.
- Lights, Distant-control-switch socket for electric. J. M. Davis. No. 1,303,464; May 13; v. 262; p. 213.
- Lights, Means of attachment for life-buoy. J. R. Holmes. No. 1,322,902; Nov. 25; v. 268; p. 644.
- Lights on and off, Electric device for automatically turning. E. Steiger. No. 1,292,123; Jan. 21; v. 258; p. 562.
- Lighter, Adjustable. W. A. Elkins. No. 1,292,591; Jan. 28; v. 258; p. 695.
- Lighting apparatus, Indirect-. G. Stubblefield. No. 1,300,202; Apr. 8; v. 261; p. 386.
- Lighting apparatus, Railway. J. Bijur. No. 1,308,274; July 1; v. 264; p. 49.
- Lighting attachment. T. W. Rolph and W. Lumley. No. 1,294,306; Feb. 11; v. 259; p. 341.
- Lighting-bodies, Manufacturing. G. Dalén. No. 1,311,324; July 29; v. 264; p. 741.
- Lighting, Decorative. H. S. McBride. No. 1,314,966; Sept. 2; v. 266; p. 90.
- Lighting device, Aisle-. I. I. Hance. No. 1,295,488; Feb. 25; v. 259; p. 673.
- Lighting device, Portable. R. Dixon. No. 1,316,431; Sept. 16; v. 266; p. 383.
- Lighting-fixture. H. C. Adam. No. 1,307,572; June 24; v. 263; p. 532.
- Lighting-fixture. G. M. Beardslee. No. 1,297,781; Mar. 18; v. 260; p. 501.
- Lighting-fixture. W. E. Cochran. No. 1,292,432; Jan. 28; v. 258; p. 656.
- Lighting-fixture. A. D. Curtis. No. 1,295,705; Feb. 25; v. 259; p. 724.
- Lighting-fixture. E. F. Guth. No. 1,304,963; May 27; v. 262; p. 569.
- Lighting-fixture. E. F. Guth. (Reissue.) No. 14,680; July 1; v. 264; p. 137.
- Lighting-fixture. P. M. Hotchkiss. No. 1,318,757; Oct. 14; v. 267; p. 270.
- Lighting-fixture. C. E. Jones. No. 1,309,857; July 15; v. 264; p. 407.
- Lighting-fixture. C. E. Jones. No. 1,320,148; Oct. 28; v. 267; p. 583.
- Lighting-fixture. E. C. McKinnie. No. 1,295,778; Feb. 25; v. 259; p. 740.
- Lighting-fixture. R. F. Pierce. No. 1,305,234; May 27; v. 262; p. 621.
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- Lighting-fixture. A. Sechrist. No. 1,304,387; May 20; v. 262; p. 422.
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- Lighting-socket support. J. C. Smith. No. 1,322,968; Nov. 25; v. 268; p. 657.
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- Lighting unit. E. F. Guth. No. 1,294,900; Feb. 18; v. 259; p. 515.
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- Lightning-arrester. W. Reid. No. 1,311,916; Aug. 5; v. 265; p. 12.
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- Limb, Artificial. G. de Catelan Catellani. No. 1,305,768; June 3; v. 263; p. 102.
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- Limb, Artificial. C. A. Giebler-Wanke. No. 1,319,471; Oct. 21; v. 267; p. 433.
- Limb, Artificial. C. Hofer. No. 1,305,721; June 3; v. 263; p. 93.
- Limb, Artificial. F. Lastawskas. No. 1,293,478; Feb. 4; v. 259; p. 117.
- Limb, Artificial. A. Marcinko. No. 1,299,980; Apr. 8; v. 261; p. 337.
- Limb, Artificial. P. M. McKay. No. 1,319,884; Oct. 28; v. 267; p. 533.
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- Limb, Artificial. H. R. Webb. No. 1,312,599; Aug. 12; v. 265; p. 171.
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- Link. D. H. Young. No. 1,293,606; Feb. 4; v. 259; p. 147.
- Link and shock-absorber, Combined compensating. J. F. O'Connor. No. 1,300,472; Apr. 15; v. 261; p. 469.
- Link belt, Detachable. W. E. Amberg. No. 1,313,871; Aug. 26; v. 265; p. 465.
- Link device. F. A. Nilsson. No. 1,293,884; Feb. 11; v. 259; p. 242.
- Link, Emergency coupling. H. B. Jackson. No. 1,290,209; Jan. 7; v. 258; p. 47.
- Link for sprinklers. P. Plamand. No. 1,292,746; Jan. 28; v. 258; p. 731.
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- Link, Fusible. E. F. Shipman. No. 1,295,220; Feb. 25; v. 259; p. 611.
- Link, Fusible. W. O. Teague. No. 1,300,046; Apr. 8; v. 261; p. 351.
- Link-mesh machine. C. Fingler and N. O. Sturtevant. No. 290,951; Jan. 14; v. 258; p. 252.
- Link mesh, Machine for making. R. H. Berkley. No. 1,317,679; Oct. 7; v. 267; p. 4.
- Link mesh, Machine for making. A. C. Pratt. No. 1,317,726; Oct. 7; v. 267; p. 12.
- Linoleum, floor-cloth, &c., Machine for printing. C. H. Scott. No. 1,323,107; Nov. 25; v. 268; p. 683.
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- Linotype-machine. G. E. Marlatt. No. 1,310,488; July 22; v. 264; p. 553.
- Linotype-machine. A. C. McGrath. No. 1,314,006; Aug. 26; v. 265; p. 491.
- Linotype-machine casting-jaw. G. E. Marlatt. No. 1,317,881; Oct. 7; v. 267; p. 42.
- Linotype-pots, Heater for. W. S. Hadaway, Jr. No. 1,321,071; Nov. 4; v. 268; p. 134.
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- Lint, Apparatus for collecting and handling. R. R. Nolen. No. 1,326,416; Dec. 30; v. 269; p. 759.
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- Lintel-block. I. Pomerantz. No. 1,295,204; Feb. 25; v. 259; p. 607.
- Linter and gin rib. W. A. Ragsdale. No. 1,302,216; Apr. 29; v. 261; p. 885.
- Lip-stick holder. F. A. Fuller. No. 1,290,164; Jan. 7; v. 258; p. 36.
- Liquid and gas contact apparatus. A. M. Webb. No. 1,293,270; Feb. 4; v. 259; p. 69.
- Liquid, Apparatus for aerating. F. B. Kollberg and M. Kraut. No. 1,319,667; Oct. 21; v. 267; p. 469.
- Liquid, Apparatus for dispensing. H. E. Maurer, Jr. No. 1,308,091; July 1; v. 264; p. 16.
- Liquid container, Inflammable. E. Hurlbrink. No. 1,295,321; Feb. 25; v. 259; p. 633.
- Liquid-container plug. J. H. Ross. No. 1,307,755; June 24; v. 263; p. 565.
- Liquid-containers, Piercing and decanting device for sheet-metal. A. Christie. No. 1,308,839; July 8; v. 264; p. 180.
- Liquid-containers, Pouring-stopper for. R. D. and A. A. Whiting. No. 1,314,176; Aug. 26; v. 265; p. 523.
- Liquid-conveyer. E. W. Crane. No. 1,303,814; May 13; v. 262; p. 277.
- Liquid-cooler. J. J. Walters. No. 1,297,760; Mar. 18; v. 260; p. 490.
- Liquid-cooling apparatus. J. Elger. No. 1,323,587; Dec. 2; v. 269; p. 68.
- Liquid-cooling apparatus. N. E. Gee. No. 1,320,130; Oct. 28; v. 267; p. 579.
- Liquid-delivering device. C. Schock. No. 1,317,144; Sept. 23; v. 266; p. 565.
- Liquid-dispenser. E. E. Allen. No. 1,296,351; Mar. 4; v. 260; p. 121.
- Liquid-dispenser. F. M. Furber. No. 1,322,558; Nov. 25; v. 268; p. 581.
- Liquid-dispenser. L. S. and H. Hirsch. No. 1,296,391; Mar. 4; v. 260; p. 130.
- Liquid-dispenser. J. A. Walsh. No. 1,311,628; July 29; v. 264; p. 797.
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- Liquid-dispensers, Controlling mechanism for. A. Bowser. No. 1,310,822; July 22; v. 264; p. 615.
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- Liquid-dispensing apparatus, Adjustable stop mechanism for. G. W. MacKenzie, Jr. No. 1,326,207; Dec. 30; v. 269; p. 720.
- Liquid-dispensing-apparatus controlling mechanism. R. Crowder. No. 1,297,801; Mar. 18; v. 260; p. 504.
- Liquid-dispensing device. H. G. Cordley and G. R. Long. No. 1,326,253; Dec. 30; v. 269; p. 729.
- Liquid-dispensing device. W. F. Dickey. No. 1,322,881; Nov. 25; v. 268; p. 641.
- Liquid-dispensing device. F. McLaughlin. No. 1,300,183; Apr. 8; v. 261; p. 382.
- Liquid-dispensing mechanism. J. W. Hughes. No. 1,295,508; Feb. 25; v. 259; p. 678.
- Liquid-distributor, Animal-operated. W. C. Burrell. No. 1,301,904; Apr. 29; v. 261; p. 827.
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- Liquid, Distributing. L. H. Parker. No. 1,311,841; July 29; v. 264; p. 837.
- Liquid-distributing apparatus, Portable. W. K. Shelly. No. 1,322,359; Nov. 18; v. 268; p. 491.
- Liquid-elevating apparatus. T. W. Murphy. No. 1,292,851; Jan. 28; v. 258; p. 756.
- Liquid-feed system. M. A. Fesler. No. 1,308,005; June 24; v. 263; p. 612.
- Liquid, Fire-extinguishing. S. S. Sadtler. No. 1,316,191; Sept. 16; v. 266; p. 338.
- Liquid, Float-controlled apparatus for maintaining a constant level of. C. E. N. Storr. No. 1,313,029; Aug. 12; v. 265; p. 256.
- Liquid from containers, Attachment for discharge of. J. Walker. No. 1,311,103; July 22; v. 264; p. 667.
- Liquid from materials, Expressing. J. W. Hinchley and C. S. D. Harper. No. 1,311,070; July 22; v. 264; p. 661.
- Liquid from solid matter, Apparatus for separating. F. J. Schwable. No. 1,308,918; July 8; v. 264; p. 195.
- Liquid fuel. A. A. Backhaus. No. 1,313,158; Aug. 12; v. 265; p. 281.
- Liquid fuel. A. A. Backhaus. No. 1,324,765; Dec. 9; v. 269; p. 336.
- Liquid fuel, Apparatus for utilizing. C. E. Broad. No. 1,302,505; May 6; v. 262; p. 6.
- Liquid-fuel atomizer and induced-draft apparatus. W. R. Gulick. No. 1,293,761; Feb. 11; v. 259; p. 213.
- Liquid-fuel burner. S. B. Brown. No. 1,320,374; Nov. 4; v. 268; p. 3.
- Liquid-fuel burner. T. B. Ferguson. No. 1,324,343; Dec. 9; v. 269; p. 256.
- Liquid-fuel burner. B. Foley. No. 1,304,293; May 20; v. 262; p. 404.
- Liquid-fuel burner. L. Gardner. No. 1,297,138; Mar. 11; v. 260; p. 334.
- Liquid-fuel burner. A. L. Hentzell. No. 1,305,465; June 3; v. 263; p. 44.
- Liquid-fuel burner. E. H. Jarvis. No. 1,325,095; Dec. 16; v. 269; p. 459.
- Liquid-fuel burner. G. Joiner. No. 1,291,012; Jan. 14; v. 258; p. 264.
- Liquid-fuel burner. A. Kirby. No. 1,312,735; Aug. 12; v. 265; p. 197.
- Liquid-fuel burner. G. H. Lutz. No. 1,291,573; Jan. 14; v. 258; p. 394.
- Liquid-fuel burner. H. Stapper and J. C. Van Eyk. No. 1,295,381; Feb. 25; v. 259; p. 647.
- Liquid-fuel burner. F. Stevens. No. 1,322,269; Nov. 18; v. 268; p. 474.
- Liquid-fuel burner. F. Stevens. No. 1,326,146; Dec. 23; v. 269; p. 671.
- Liquid-fuel-burning apparatus. A. Doble. No. 1,313,525; Aug. 19; v. 265; p. 366.
- Liquid-fuel furnace. W. M. and M. M. Burden. No. 1,310,152; July 15; v. 264; p. 461.
- Liquid-fuel furnace. D. Wright. No. 1,290,826; Jan. 7; v. 258; p. 196.
- Liquid-fuel furnace or forge. B. H. Tripp and H. V. Ramsay. No. 1,305,034; May 27; v. 262; p. 583.
- Liquid-fuel igniter and burner. J. Squires and C. P. King. No. 1,307,797; June 24; v. 263; p. 573.
- Liquid-fuel-lock device. F. Vogelzang. No. 1,316,986; Sept. 23; v. 266; p. 535.
- Liquid-fuel, Means for vaporizing. J. M. Miller. No. 1,310,245; July 15; v. 264; p. 477.
- Liquid-fuel smelter. E. E. Rushton. No. 1,314,150; Aug. 26; v. 265; p. 518.
- Liquid-fuel tank. C. O. Ellert. No. 1,303,642; May 13; v. 262; p. 245.
- Liquid-gage and temperature-indicator, Combined. W. D. Collins and G. W. H. Allen. No. 1,301,910; Apr. 29; v. 261; p. 828.
- Liquid heater and vaporizer. C. W. Dyson. No. 1,318,059; Oct. 7; v. 267; p. 76.
- Liquid-heating method and apparatus. L. W. Chubb. No. 1,308,040; July 1; v. 264; p. 6.
- Liquid hydrocarbons and apparatus therefor, Distillation of. J. H. Corthesy. No. 1,316,770; Sept. 23; v. 266; p. 496.
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- Liquid-level gages, Circuit-closing device for. L. G. Le Compte. No. 1,325,160; Dec. 16; v. 269; p. 472.
- Liquid-level indicator. J. Ryan. No. 1,313,738; Aug. 19; v. 265; p. 406.
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- Liquid-measuring device. M. S. Levé. No. 1,299,743; Apr. 8; v. 261; p. 285.
- Liquid-measuring device. F. Schorik. No. 1,304,607; May 27; v. 262; p. 503.
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- Liquid-receptacle. A. McDonald. No. 1,300,432; Apr. 15; v. 261; p. 460.
- Liquid-receptacle-controlling device. J. Jansen, Jr. No. 1,324,597; Dec. 9; v. 269; p. 305.
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- Liquid-sampler. C. J. Haggstrom. No. 1,296,794; Mar. 11; v. 260; p. 256.
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- Liquids, Apparatus for cooling. A. Smallwood. No. 1,312,930; Aug. 12; v. 265; p. 236.
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- Localizing foreign substances which have become embedded in the human body, Means for. J. Bergonié. No. 1,307,654; June 24; v. 263; p. 546.
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  - Automobile-lock.
  - Automobile and engine lock.
  - Automobile clutch-lock.
  - Automobile combination-lock.
  - Automobile-crank lock.
  - Automobile-door lock.
  - Automobile-robe lock.
  - Automobile safety-lock.
  - Automobile-steering-wheel lock.
  - Automobile switch-lock.
  - Automobile-top lock.
  - Bag-lock.
  - Bag-frame lock.
  - Barn-door lock.
  - Bedstead corner-lock.
  - Bicycle-lock.
  - Bolt-lock.
  - Bolt and nut lock.
  - Box-seal lock.
  - Brake-shoe-key lock.
  - Bullet-firing alarm-lock.
  - Burglar-alarm lock.
  - Car-check lock.
  - Car-door lock.
  - Chain-lock.
  - Clutch-pedal lock.
  - Combination-lock.
  - Compression-lock.
  - Cord-fastener lock.
  - Cover-lock.
  - Crank-lock.
  - Cylinder-lock.
  - Door-lock.
  - Door and window lock.
  - Door bolt-lock.
  - Door latch and lock.
  - Drawer-lock.
  - Electric-switch lock.
  - Elevator-lock.
  - Extension-table lock.
  - Gear-lock.
  - Gear-shift lock.
  - Gear-shift-lever lock.
  - Gear-shifting lock.
  - Handbag-lock.
  - Hasp-lock.
  - Hook-and-eye safety-lock.
  - Horn-lock.
  - Key-lock.
  - Key-operated lock.
  - Keyless lock.
  - Latch-lock.
  - Lever-lock.
  - Lever-controlling lock.
  - Line-lock.
  - Liquid-fuel lock.
  - Mail-bag lock.
  - Manifold-lock.
  - Milk-can-cover lock.
  - Motor-lock.
  - Motor-vehicle lock.
  - Nut-lock.
  - Nut and bolt lock.
  - Oar-lock.
  - Padlock.
  - Permutation-lock.
  - Piston-pin lock.
  - Platen-shift lock.
  - Pocket-lock.
  - Rail-lock.
  - Rail-joint lock.
  - Receptacle-lock.
  - Recording-lock.
  - Recording time-lock.
  - Rim-lock.
  - Robe-lock.
  - Rotary gate-lock.
  - Rowlock.
  - Safety switch-lock.
  - Sash-lock.
  - Scale-beam lock.
  - Screw-cap lock.
  - Seal-lock.
  - Shifter-fork lock.
  - Sliding-bolt lock.
  - Snap-lock.
  - Spindle-lock.
  - Spoke-lock.
  - Spring-lock.
  - Spring knob-lock.
  - Steering-wheel lock.
  - Switch-lock.
  - Switch-stand lock.
  - Tire-lock.
  - Toilet-lock.
  - Transmission-lock.
  - Transmission lever-lock.
  - Trick-lock.
  - Trunk-lock.
  - Vacuum-operating lock.
  - Valve-lock.
  - Vehicle-lock.
  - Vehicle-wheel lock.
  - Wheel-lock.
  - Window-lock.
  - Window-automatic lock.
  - Window-sash lock.
  - Wrist-pin lock.



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- Lock. J. N. Stricklan. No. 1,310,307; July 15; v. 264; p. 489.
- Lock. T. Thompson. No. 1,311,102; July 22; v. 264; p. 666.
- Lock. A. A. Tibbits. No. 1,309,050; July 8; v. 264; p. 221.
- Lock. A. Villani. No. 1,297,754; Mar. 18; v. 260; p. 495.
- Lock. H. G. Voight. No. 1,293,258; Feb. 4; v. 259; p. 66.
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- Lock. G. Weller. No. 1,290,439; Jan. 7; v. 258; p. 103.
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- Lock. L. P. Wentzell. No. 1,295,400; Feb. 25; v. 259; p. 652.
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- Lock-bolt. E. C. Anderson. No. 1,308,026; July 1; v. 264; p. 4.
- Lock, Combination-. K. Buczynski and B. Szoka. No. 1,320,444; Nov. 4; v. 268; p. 16.
- Lock-fitting. W. H. Appleby. No. 1,304,245; May 20; v. 262; p. 394.
- Lock for accumulator mechanism of adding-machines. W. W. Lasker. No. 1,309,897; July 15; v. 264; p. 415.
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- Lock for stop-boxes. P. R. Crall. No. 1,307,346; June 24; v. 263; p. 491.
- Lock for switches or the like. P. Dunning. No. 1,290,938; Jan. 14; v. 258; p. 248.
- Lock-guard. W. S. Farnsworth. No. 1,308,734; July 1; v. 264; p. 133.
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- Loom-fastener. I. B. Wulkan. No. 1,295,249; Feb. 25; v. 259; p. 618.
- Loom-feeler. O. Landry. No. 1,319,777; Oct. 28; v. 267; p. 513.
- Loom feeler-motion. E. H. Ballou. No. 1,292,989; Feb. 4; v. 259; p. 4.
- Loom feeler-motion. A. Blouin. No. 1,311,747; July 29; v. 261; p. 820.
- Loom feeler-motion. H. A. Davis. No. 1,290,108; Jan. 7; v. 258; p. 23.
- Loom feeler-motion. H. G. Kimball. No. 1,298,352; Mar. 25; v. 260; p. 646.
- Loom feeler-motion. H. A. Owen. No. 1,291,104; Jan. 14; v. 258; p. 287.
- Loom feeler-motion. A. E. Rhoades. No. 1,292,057; Jan. 21; v. 258; p. 545.
- Loom feeler-motion. A. E. Rhoades. No. 1,292,373; Jan. 21; v. 258; p. 621.
- Loom filling-end controller. T. Carter. No. 1,293,030; Feb. 4; v. 259; p. 14.
- Loom, Filling-replenishing. A. E. Rhoades. No. 1,290,661; Jan. 7; v. 258; p. 157.
- Loom, Filling-replenishing. E. S. Stimpson. No. 1,325,216; Dec. 16; v. 269; p. 482.
- Loom, Filling-replenishing. C. H. Warren. No. 1,322,851; Nov. 25; v. 268; p. 635.
- Loom for beadwork. D. Traum. No. 1,313,765; Aug. 19; v. 265; p. 411.
- Loom for making hair goods, Hand-. S. S. Dewitt. No. 1,315,912; Sept. 9; v. 266; p. 272.
- Loom for weaving. T. T. Jackson. No. 1,316,159; Sept. 16; v. 266; p. 332.
- Loom for weaving. C. Speiser. No. 1,316,810; Sept. 23; v. 266; p. 503.
- Loom for weaving and cutting pile fabrics. A. Veluard. No. 1,300,306; Apr. 15; v. 261; p. 434.
- Loom for weaving endless fabrics. G. Cuthbert. No. 1,320,742; Nov. 4; v. 268; p. 72.
- Loom for weaving pile fabrics. G. Koch. No. 1,305,373; June 3; v. 263; p. 27.
- Loom-frame. J. Kaufmann. No. 1,294,670; Feb. 18; v. 259; p. 462.
- Loom-frog. C. E. Nutting. No. 1,322,605; Nov. 25; v. 268; p. 590.
- Loom, Hand-. C. Hendrick. No. 1,313,596; Aug. 19; v. 265; p. 380.
- Loom-harness. J. Kaufmann. No. 1,292,612; Jan. 28; v. 258; p. 701.
- Loom, Jacquard. J. H. Barlow. No. 1,323,437; Dec. 2; v. 269; p. 40.
- Loom let-off mechanism. A. Priquet. No. 1,290,346; Jan. 7; v. 258; p. 81.
- Loom lug-stick. S. D. Eubanks. No. 1,300,147; Apr. 8; v. 261; p. 374.
- Loom, Needle-. E. E. Waite. No. 1,296,024; Mar. 4; v. 260; p. 47.
- Loom, Needle-. E. E. Waite. No. 1,296,025; Mar. 4; v. 260; p. 47.
- Loom picker-stick check. J. W. Herbert and J. A. Andrews. No. 1,305,799; June 3; v. 263; p. 108.
- Loom picking mechanism. A. Newton-Smith. No. 1,301,298; Apr. 22; v. 261; p. 680.
- Loom picking mechanism. A. Newton-Smith. No. 1,322,933; Nov. 25; v. 268; p. 650.
- Loom, Pile-fabric. H. J. Hope. No. 1,295,898; Mar. 4; v. 260; p. 18.
- Loom, Pile-fabric. H. J. Hope. No. 1,298,949; Apr. 1; v. 261; p. 77.
- Loom, Pile-fabric. H. J. Hope. No. 1,304,879; May 27; v. 262; p. 553.
- Loom-protector mechanism. C. J. Long. No. 1,296,676; Mar. 11; v. 260; p. 229.
- Loom-reed. J. Kaufmann. No. 1,294,671; Feb. 18; v. 259; p. 462.
- Loom-reed. A. E. Stroud. No. 1,323,926; Dec. 2; v. 268; p. 132.
- Loom-seat. R. Jamieson. No. 1,312,251; Aug. 5; v. 265; p. 74.
- Loom-seat. A. E. Rhoades. No. 1,310,671; July 22; v. 264; p. 587.
- Loom-shuttle. A. Archer. No. 1,300,102; Apr. 8; v. 261; p. 364.
- Loom-shuttle. G. J. Friedrich. No. 1,296,645; Mar. 11; v. 260; p. 222.
- Loom-shuttles, Thread-eye for. F. Cass. No. 1,315,946; Sept. 16; v. 266; p. 292.
- Loom-shuttles, Tube-holder for. G. H. Lovitt. No. 1,321,651; Nov. 11; v. 268; p. 307.
- Loom spindle-support. C. Reinas. No. 1,326,289; Dec. 30; v. 269; p. 735.
- Loom stop-motion. C. F. Helderman. No. 1,326,262; Dec. 30; v. 269; p. 731.
- Loom-temple. G. Lepage. No. 1,324,163; Dec. 9; v. 269; p. 221.
- Loom-temple, Bur-roll for. S. S. Jackson. No. 1,325,404; Dec. 16; v. 269; p. 517.
- Loom, Terry-. C. F. Merrill. No. 1,322,715; Nov. 25; v. 268; p. 610.

- Loom, Terry-. A. E. Rhoades. No. 1,322,730; Nov. 25; v. 268; p. 613.
- Loom, weft-feeler mechanism. S. S. Jackson. No. 1,300,971; Apr. 15; v. 261; p. 575.
- Loom, weft-feeler mechanism. S. S. Jackson. No. 1,301,082; Apr. 15; v. 261; p. 601.
- Loom, weft-feeler mechanism. H. A. Owen. No. 1,291,624; Jan. 14; v. 258; p. 407.
- Loom, Weft-replenishing. L. Aitken. No. 1,307,994; June 24; v. 263; p. 610.
- Loom, Weft-replenishing. W. L. Barrell. No. 1,308,144; July 1; v. 264; p. 25.
- Loom, Weft-replenishing. H. A. Owen. No. 1,291,623; Jan. 14; v. 258; p. 407.
- Looms, Art of and mechanism for renewing warp in. T. P. Gates. No. 1,318,442; Oct. 14; v. 267; p. 210.
- Looms, Batten structure for narrow-ware. F. Benz, Jr. No. 1,301,900; Apr. 29; v. 261; p. 826.
- Looms, Battery-feed for. A. E. Rhoades. No. 1,317,823; Oct. 7; v. 267; p. 31.
- Looms, Beam-locking device for. A. E. Rhoades. No. 1,312,269; Aug. 5; v. 265; p. 77.
- Looms, Bobbin or quill cleaning attachment for. G. H. Redmond, D. R. Harriman, Jr., and O. L. Richardson. No. 1,312,750; Aug. 12; v. 265; p. 200.
- Looms, Box-operating mechanism for. J. T. Kennedy. No. 1,302,670; May 6; v. 262; p. 36.
- Looms, Broken-pick extractor for. C. Crompton. No. 1,319,759; Oct. 28; v. 267; p. 510.
- Looms, Check for. M. Nadeau and A. Bouvier. No. 1,315,388; Sept. 9; v. 266; p. 177.
- Looms, Check for picker-sticks of. J. Hirschmann. No. 1,323,055; Nov. 25; v. 268; p. 674.
- Looms, Electric stop-motion device for. W. Lawrushko. No. 1,321,762; Nov. 11; v. 268; p. 329.
- Looms, Feeder-actuating mechanism for weft-replenishing. H. A. Owen. No. 1,291,101; Jan. 14; v. 258; p. 286.
- Looms, Feeder device for filling-replenishing. T. Ferguson. No. 1,308,234; July 1; v. 264; p. 42.
- Looms, Feeler mechanism for. F. Lacey. No. 1,308,246; July 1; v. 264; p. 44.
- Looms, Feeler mechanism for. W. W. Quinton. No. 1,316,059; Sept. 16; v. 266; p. 313.
- Looms, Feeler mechanism for. W. W. Quinton. No. 1,316,060; Sept. 16; v. 266; p. 313.
- Looms, Feeler mechanism for. E. S. Stimpson. No. 1,309,226; July 8; v. 264; p. 253.
- Looms, Feeler mechanism for automatic. U. Hebert. No. 1,302,039; Apr. 29; v. 261; p. 852.
- Looms, Feeler-motion for. F. B. Davis. No. 1,308,227; July 1; v. 264; p. 40.
- Looms, Feeler-motion for. H. A. Owen. No. 1,291,103; Jan. 14; v. 258; p. 287.
- Looms, Feeler-motion for. A. E. Rhoades. No. 1,294,534; Feb. 18; v. 259; p. 430.
- Looms, Feeler-motion for. A. E. Rhoades. No. 1,308,193; July 1; v. 264; p. 34.
- Looms, Feeler-motion for. E. S. Stimpson. No. 1,313,349; Aug. 19; v. 265; p. 333.
- Looms, Feeler-motion for. E. S. Stimpson. No. 1,313,350; Aug. 19; v. 265; p. 333.
- Looms, Filling clamping and parting means for. U. Hebert. No. 1,317,787; Oct. 7; v. 267; p. 24.
- Looms, Filling clamping and parting mechanism for. A. E. Stafford. No. 1,317,833; Oct. 7; v. 267; p. 33.
- Looms, Filling-end-extracting mechanism for. H. H. Gove. No. 1,303,886; May 20; v. 262; p. 329.
- Looms, Filling-feeler motion for. J. F. Hartman. No. 1,318,665; Oct. 14; v. 267; p. 253.
- Looms for weaving pile fabrics. Pile-cutting device for use in. A. Veluard. No. 1,303,620; May 13; v. 262; p. 241.
- Looms, Harness-motion for. A. E. Rhoades. No. 1,312,751; Aug. 12; v. 265; p. 200.
- Looms, Harness stop-motion for. R. H. Gelinas. No. 1,311,767; July 29; v. 264; p. 823.
- Looms, Hopper-actuating mechanism for. H. Lussier. No. 1,322,032; Nov. 18; v. 268; p. 429.
- Looms, Let-off mechanism for. A. Lavigne. No. 1,310,398; July 15; v. 264; p. 505.
- Looms, Magazine for weft-replenishing. W. L. Barrell. No. 1,321,276; Nov. 11; v. 268; p. 237.
- Looms, Mechanism for automatically changing shuttles in. M. Auerbach. No. 1,298,860; Apr. 1; v. 261; p. 56.
- Looms, Pattern mechanism for. A. E. Rhoades. No. 1,322,731; Nov. 25; v. 268; p. 613.
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- Looms, Picker-stick check for. A. E. Darlington. No. 1,311,053; July 22; v. 264; p. 657.
- Looms, Picking apparatus for weaving. M. T. Pickstone. No. 1,306,190; June 10; v. 263; p. 211.
- Looms, Picking or shuttle-actuating mechanism for. T. Perks. No. 1,326,528; Dec. 30; v. 269; p. 781.
- Looms, Pile-cutting mechanism for. A. Veluard. No. 1,314,917; Sept. 2; v. 266; p. 82.
- Looms, Pile-cutting mechanism for. A. Veluard. No. 1,322,657; Nov. 25; v. 268; p. 599.
- Looms, Reed for weaving. M. T. Pickstone. No. 1,306,189; June 10; v. 263; p. 211.
- Looms, Rotary magazine for. A. E. Rhoades. No. 1,325,207; Dec. 16; v. 269; p. 480.
- Looms, Shuttle-action for. J. Wojtasiewicz and J. Zajac. No. 1,322,857; Nov. 25; v. 268; p. 636.
- Looms, Shuttle-change mechanism for. M. Auerbach. No. 1,307,334; June 24; v. 263; p. 489.
- Looms, Shuttle-checking mechanism of. A. Newton-Smith. No. 1,315,608; Sept. 9; v. 266; p. 216.
- Looms, Shuttle for side-motion feeler-. T. F. Brazeil. No. 1,302,629; May 6; v. 262; p. 28.
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- Looms, Stop-motion for. H. Le Doux. No. 1,307,012; June 17; v. 263; p. 397.
- Looms, Stop-motion for. J. Stuer. No. 1,313,755; Aug. 19; v. 265; p. 409.
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- Looms, Thread-parter for automatic weft-replenishing. J. P. Marshall and C. E. Knowlton. No. 1,291,059; Jan. 14; v. 258; p. 276.
- Looms, Thread-tightener for warp. C. Walther. No. 1,318,625; Oct. 14; v. 267; p. 246.
- Looms, Warp-beam-holding mechanism for. S. H. Carling. No. 1,318,353; Oct. 14; v. 267; p. 193.
- Looms, Warp-controlling device for. G. A. Johnstone. No. 1,294,809; Feb. 18; v. 259; p. 494.
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- Looms, Warp stop-motion for. H. A. Owen. No. 1,291,102; Jan. 14; v. 258; p. 287.
- Looms, Weft-parter device for weft-replenishing. J. F. Marshall. No. 1,291,058; Jan. 14; v. 258; p. 276.
- Looms, Weft-spool changing for weaving. A. G. Koehlin. No. 1,321,315; Nov. 11; v. 268; p. 245.
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- Looms, Yarn-feeding mechanism for. B. A. Clark. No. 1,307,241; June 17; v. 263; p. 438.
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- Lubricating apparatus. A. V. Gullborg. No. 1,307,733; June 24; v. 263; p. 561.
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- Lubricating device. O. D. H. Bentley. No. 1,304,730; May 27; v. 262; p. 526.
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- Lubricating system. F. A. Shattuck. No. 1,312,365; Aug. 5; v. 265; p. 95.
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| Cartridge-lubricator.      | Journal-lubricator.        |
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- Lubricator. H. D. Boyer. No. 1,292,692; Jan. 28; v. 258; p. 720.
- Lubricator. H. D. Boyer. No. 1,304,535; May 27; v. 262; p. 490.
- Lubricator. H. D. Boyer. No. 1,304,536; May 27; v. 262; p. 490.
- Lubricator. M. Carle. No. 1,319,754; Oct. 28; v. 267; p. 509.
- Lubricator. O. E. Clark. No. 1,318,646; Oct. 14; v. 267; p. 249.
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- Lubricator. E. C. Critchlow. No. 1,325,002; Dec. 16; v. 269; p. 441.
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- Lubricator. M. W. Franklin. No. 1,325,563; Dec. 23; v. 269; p. 563.
- Lubricator. M. Hard. No. 1,320,548; Nov. 4; v. 268; p. 36.
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- Lubricator. T. J. Holmes. No. 1,297,850; Mar. 18; v. 260; p. 515.
- Lubricator. J. Horvath. No. 1,291,000; Jan. 14; v. 258; p. 262.
- Lubricator. H. F. Hoyer. No. 1,295,319; Feb. 25; v. 259; p. 633.
- Lubricator. J. F. MacIndoe. No. 1,300,751; Apr. 15; v. 261; p. 528.
- Lubricator. A. L. Mapson. No. 1,294,292; Feb. 11; v. 259; p. 338.
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- Lubricator. L. J. Mruk. No. 1,308,604; July 1; v. 264; p. 109.
- Lubricator. W. H. Putnam. No. 1,313,204; Aug. 12; v. 265; p. 290.
- Lubricator. V. I. Ross and J. L. Ross. No. 1,317,759; Oct. 7; v. 267; p. 19.
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- Lubricator. E. J. Sullivan and H. P. Boak. No. 1,292,138; Jan. 21; v. 258; p. 566.
- Lubricator. D. A. Thornhill. No. 1,294,728; Feb. 18; v. 259; p. 475.
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- Lubricators, Swivel connection for force-feed. B. H. Skelly. No. 1,317,734; Oct. 7; v. 267; p. 14.
- Lug-plate. C. W. Gregory. No. 1,315,299; Sept. 9; v. 266; p. 161.
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- Lug-strap. E. T. Packard. No. 1,305,402; June 3; v. 263; p. 32.
- Luggage-carrier. W. J. Ballard. No. 1,317,751; Oct. 7; v. 267; p. 17.
- Luggage-carrier. E. L. Hendricks. No. 1,321,742; Nov. 11; v. 268; p. 325.
- Luggage-carrier. T. Morse. No. 1,312,562; Aug. 12; v. 265; p. 164.
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- Luggage-handling device. J. Clement. No. 1,319,324; Oct. 21; v. 267; p. 404.
- Lumber-drier. A. S. Nichols. No. 1,318,794; Oct. 14; v. 267; p. 277.
- Lumber loading and unloading device. T. E. Duckworth. No. 1,317,079; Sept. 23; v. 266; p. 553.
- Luminous attachment. O. H. Van Amberg. No. 1,316,985; Sept. 23; v. 266; p. 535.
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- Luminous indicator. M. C. Frank. No. 1,321,024; Nov. 4; v. 268; p. 126.
- Lunch-box. J. M. Mothersall. No. 1,316,240; Sept. 16; v. 266; p. 347.
- Lunch-box and table, Combination. H. C. Otteson. No. 1,325,371; Dec. 16; v. 269; p. 510.
- Lure or decoy. J. B. Rhodes. No. 1,321,850; Nov. 18; v. 268; p. 396.
- Luxostat. W. J. Harvey. No. 1,293,768; Feb. 11; v. 259; p. 215.
- Macaroni and like food product. M. L. Bouchet. No. 1,299,819; Apr. 8; v. 261; p. 302.
- Macaroni-drier. P. Casaleua. No. 1,310,176; July 15; v. 264; p. 465.
- Macaroni, Drying. K. Gammel. No. 1,300,718; Apr. 15; v. 261; p. 521.
- Macaroni, spaghetti, &c., Machine for cutting. J. A. Alvey. No. 1,314,300; Aug. 23; v. 265; p. 547.
- Machine and stop device used therewith, Combination of. P. P. G. Hall. No. 1,316,717; Sept. 23; v. 266; p. 486.
- Machine-base. M. Leitch. No. 1,309,899; July 15; v. 264; p. 415.
- Machine-beds, Manufacturing long sectional. L. I. Yeomans. No. 1,309,386; July 8; v. 264; p. 282.
- Machine-brake. W. R. Cain. No. 1,303,460; May 13; v. 262; p. 212.
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- Machine element. D. F. Lepley. No. 1,294,125; Feb. 11; v. 259; p. 299.
- Machine elements, Producing. V. L. Emerson. No. 1,297,129; Mar. 11; v. 260; p. 332.
- Machine-operating mechanism. L. C. Reynolds. No. 1,298,400; Mar. 25; v. 260; p. 656.
- Machine-recorder. A. C. Johnson. No. 1,323,062; Nov. 25; v. 268; p. 675.
- Machine-skid. B. Gooch. No. 1,291,836; Jan. 21; v. 258; p. 489.
- Machine-tool. C. A. Bickett. No. 1,312,297; Aug. 5; v. 265; p. 82.
- Machine-tool. R. T. Hazelton. No. 1,315,722; Sept. 9; v. 266; p. 236.
- Machine-tool. S. H. Keefer. No. 1,299,192; Apr. 1; v. 261; p. 131.
- Machine-tool. F. S. Shields and J. A. Camm. No. 1,312,276; Aug. 5; v. 265; p. 78.
- Machine-tool. M. A. Wertman. No. 1,308,152; July 1; v. 264; p. 27.
- Machine-tool. L. I. Yeomans. No. 1,309,383; July 8; v. 264; p. 282.
- Machine-tool structure. G. E. Hallenbeck. No. 1,297,463; Mar. 18; v. 260; p. 432.
- Machine-tool transmission and control mechanism. F. A. Parsons. No. 1,322,939; Nov. 25; v. 268; p. 632.
- Machine-tools, Means for lubricating. W. F. McCarty. No. 1,293,611; Feb. 4; v. 259; p. 147.
- Machining apparatus, Crank-driven device for. T. F. Philippi. No. 1,309,301; July 8; v. 264; p. 267.
- Machinist's testing device. S. E. Handley. No. 1,313,086; Aug. 12; v. 265; p. 267.
- Magazine and signal, Reserve. F. A. Ruckman. No. 1,306,355; June 10; v. 263; p. 244.
- Magazine catch and release. G. Hammond. No. 1,307,492; June 24; v. 263; p. 518.
- Magazine drill-press, Multiple. A. Klay. No. 1,320,152; Oct. 28; v. 267; p. 583.
- Magazine feeder and director, Combination needle. J. L. Vaughn. No. 1,316,932; Sept. 23; v. 266; p. 525.
- Magazine-gun indicator. C. H. Veeder. No. 1,326,234; Dec. 30; v. 269; p. 725.
- Magazine powder-puff. M. Birsan. No. 1,318,256; Oct. 7; v. 267; p. 115.
- Magnesia brick and making the same. H. H. Hanson and H. K. Moore. No. 1,307,197; June 17; v. 263; p. 430.
- Magnesia, Manufacture of. E. E. Dutt. No. 1,325,932; Dec. 23; v. 269; p. 632.
- Magnesite refractories, Manufacturing. R. D. Pike. No. 1,312,871; Aug. 12; v. 265; p. 224.
- Magnesium carbonate, Producing. B. B. Grunwald. No. 1,298,932; Apr. 1; v. 261; p. 73.
- Magnesium carbonitrid in blast-furnaces, Making. E. W. Haslup. No. 1,291,498; Jan. 14; v. 258; p. 377.
- Magnesium chloride, Preparation of, anhydrous. C. C. Wallace. No. 1,301,766; Apr. 22; v. 261; p. 770.
- Magnesium, Electrodeposition of. G. O. Seward. No. 1,310,449; July 22; v. 264; p. 546.
- Magnesium, Electrodepositing. G. O. Seward. No. 1,310,450; July 22; v. 264; p. 546.
- Magnesium nitrid, Producing. C. R. Burke, H. T. Boyd, P. M. Biddison, and J. S. Zink. No. 1,319,843; Oct. 28; v. 267; p. 526.
- Magnet. S. H. Hartshorn. No. 1,317,786; Oct. 7; v. 267; p. 24.
- Magnet, Accelerating. D. C. Larson. No. 1,309,641; July 15; v. 264; p. 367.
- Magnet, Compound. W. L. Hansen. No. 1,292,460; Jan. 28; v. 258; p. 662.
- Magnet-core. G. W. Elmen. No. 1,297,126; Mar. 11; v. 260; p. 331.

- Magnet-core. G. W. Elmen. No. 1,297,127; Mar. 11; v. 260; p. 332.
- Magnet-core. J. C. Woodruff. No. 1,292,206; Jan. 21; v. 258; p. 582.
- Magnet, Field-. A. J. Croll. No. 1,314,128; Aug. 26; v. 265; p. 514.
- Magnet, Field-. F. F. Dorsey. No. 1,314,132; Aug. 26; v. 265; p. 515.
- Magnet for dynamo-electric machines, Field-. F. W. McCloskey. No. 1,292,621; Jan. 28; v. 258; p. 703.
- Magnet frames and the like, Manufacturing cylindrical. G. E. Stevens. No. 1,297,271; Mar. 11; v. 260; p. 362.
- Magnet, Lifting-. J. P. Bethke. No. 1,316,672; Sept. 23; v. 266; p. 478.
- Magnet, Lifting-. L. D. Rowell. No. 1,325,914; Dec. 23; v. 269; p. 629.
- Magnetic brake. E. J. Ferry. No. 1,294,784; Feb. 18; v. 259; p. 489.
- Magnetic device. C. O. Harrington. No. 1,298,701; Apr. 1; v. 261; p. 19.
- Magnetic dolly-bar. T. J. Shea. No. 1,302,978; May 6; v. 262; p. 95.
- Magnetic drum-separator. G. Ullrich. No. 1,324,529; Dec. 9; v. 269; p. 292.
- Magnetic field-controlling means. W. S. Levin. No. 1,320,398; Nov. 4; v. 268; p. 8.
- Magnetic heater. C. S. Cushman. No. 1,307,773; June 24; v. 263; p. 568.
- Magnetic leakage, Method of and apparatus for testing magnetizable objects by. C. W. Burrows. No. 1,322,405; Nov. 18; v. 268; p. 500.
- Magnetic material suitable for use in static transformers and other electrical apparatus. A. F. Berry. No. 1,313,054; Aug. 12; v. 265; p. 261.
- Magnetic material, Treatment of. A. F. Berry. No. 1,320,309; Oct. 28; v. 267; p. 612.
- Magnetic separator. J. E. Greenawalt. No. 1,324,149; Dec. 9; v. 269; p. 218.
- Magnetic separator. R. A. Manegold and G. H. Fobian. No. 1,310,802; July 22; v. 264; p. 612.
- Magnetic separator. L. G. Rowand. No. 1,303,397; May 13; v. 262; p. 200.
- Magnetic separator. J. C. Sekinger. No. 1,317,992; Oct. 7; v. 267; p. 63.
- Magnetic starting-switch. L. Kovacs. No. 1,310,353; July 15; v. 264; p. 496.
- Magnetically-controlled switch. H. L. Van Valkenburg. No. 1,297,979; Mar. 18; v. 260; p. 543.
- Magneto. J. B. Bushnell. No. 1,290,710; Jan. 7; v. 258; p. 169.
- Magneto. E. C. Freese. No. 1,292,296; Jan. 21; v. 258; p. 602.
- Magneto. A. C. Kleckner and W. Brown. No. 1,304,782; May 27; v. 262; p. 536.
- Magneto. L. Langner. No. 1,314,197; Aug. 26; v. 265; p. 527.
- Magneto. J. R. Stark. No. 1,321,158; Nov. 11; v. 268; p. 214.
- Magneto attachment. J. S. Martin. No. 1,318,218; Oct. 7; v. 267; p. 107.
- Magneto contact, Automobile. W. E. McCreary. No. 1,312,794; Aug. 12; v. 265; p. 209.
- Magneto-controlling device. M. Y. Delage. No. 1,315,911; Sept. 9; v. 266; p. 272.
- Magneto-coupling. R. H. Pierce. No. 1,301,002; Apr. 15; v. 261; p. 582.
- Magneto-cut-off switch. N. W. Dalton. No. 1,296,774; Mar. 11; v. 260; p. 252.
- Magneto distributing mechanism. W. E. Schwarzmman. No. 1,319,308; Oct. 21; v. 267; p. 401.
- Magneto-electric machine. E. Gassmann and H. W. Uhl. No. 1,322,103; Nov. 18; v. 268; p. 442.
- Magneto-generator. R. S. Smith. No. 1,291,216; Jan. 14; v. 258; p. 311.
- Magneto-igniters, Mounting for. A. R. Baker. No. 1,306,154; June 10; v. 263; p. 200.
- Magneto impulse-starter. B. Lawrence. No. 1,294,282; Feb. 11; v. 259; p. 336.
- Magneto impulse-starter. P. Ostenberg. No. 1,291,097; Jan. 14; v. 258; p. 285.
- Magneto-interrupting device. E. J. J. Salmson. No. 1,291,174; Jan. 14; v. 258; p. 302.
- Magneto, Reversible. P. A. Wiley. No. 1,292,193; Jan. 21; v. 258; p. 578.
- Magneto starting mechanism. L. Johnson. No. 1,294,277; Feb. 11; v. 259; p. 335.
- Magneto-tester. D. C. Dodge. No. 1,296,932; Mar. 11; v. 260; p. 288.
- Magneto-testing apparatus. T. S. Kemble. No. 1,316,244; Sept. 16; v. 266; p. 347.
- Magnetos, Brush-holder for. W. E. Schwarzmman. No. 1,322,505; Nov. 18; v. 268; p. 520.
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- Magnetos, Impulser for. H. O. Putt. No. 1,326,529; Dec. 30; v. 269; p. 781.
- Magnetos, Starting-coupling for high-tension. F. H. Horning. No. 1,308,076; July 1; v. 264; p. 13.
- Magnifying and projecting apparatus. S. Figueroa. No. 1,315,105; Sept. 2; v. 266; p. 115.
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- Mail-bag catcher and deliverer. H. M. Merida. No. 1,292,502; Jan. 28; v. 258; p. 672.
- Mail-bag catching and delivering apparatus. C. R. Baucum. No. 1,297,060; Mar. 11; v. 260; p. 317.
- Mail-bag catching and delivering apparatus. O. S. Hayden. No. 1,326,449; Dec. 30; v. 269; p. 765.
- Mail-bag catching and delivering apparatus. H. Kershaw. No. 1,302,561; May 6; v. 262; p. 15.
- Mail-bag-catching device. H. Kershaw. No. 1,302,562; May 6; v. 262; p. 15.
- Mail-bag-delivering device. J. G. Shulenberger and L. Whitright. No. 1,308,261; July 1; v. 264; p. 46.
- Mail-bag fastening. J. M. Watson. No. 1,297,277; Mar. 11; v. 260; p. 364.
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- Mail-bag receiving and delivering apparatus. C. W. Pierce. No. 1,321,327; Nov. 11; v. 263; p. 247.
- Mail-box. M. O. Courtney. No. 1,307,242; June 17; v. 263; p. 438.
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- Mail-box. E. Hack. No. 1,310,496; July 22; v. 264; p. 554.
- Mail-box. L. R. Hammer. No. 1,316,837; Sept. 23; v. 266; p. 508.
- Mail-box. G. Honig. No. 1,293,439; Feb. 4; v. 259; p. 108.
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- Mail-box. J. R. McClymonds. No. 1,309,328; July 8; v. 264; p. 272.
- Mail-box. E. E. Oettinger. No. 1,324,688; Dec. 9; v. 269; p. 322.
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- Mail-box. A. T. Smith. No. 1,295,624; Feb. 25; v. 259; p. 705.
- Mail-box for rural districts. A. F. Krieger. No. 1,298,225; Mar. 25; v. 260; p. 620.
- Mail-box, Receiving and distributing. F. K. Wiel. No. 1,307,649; June 24; v. 263; p. 546.
- Mail-box signal, Automatic. H. W. Raney. No. 1,292,050; Jan. 21; v. 258; p. 543.
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- Mailing device. P. H. Allen. No. 1,295,833; Mar. 4; v. 260; p. 3.
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- Mandrel, Expanding. G. W. Osborn. No. 1,293,525; Feb. 4; v. 259; p. 128.
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- Manganates, Manufacture of. J. R. MacMillan. No. 1,318,891; Oct. 14; v. 267; p. 296.
- Manganese and making sulfuric acid and manganese dioxide. G. D. Van Arsdale and C. G. Maier. No. 1,304,222; May 20; v. 262; p. 390.
- Manganese compounds, Preparing highly-oxidized. J. C. Adell. No. 1,318,432; Oct. 14; v. 267; p. 209.
- Manganese depolarizing agent and making same, Electrolytic higher-oxide-of. C. Ellis. No. 1,322,000; Nov. 18; v. 268; p. 423.
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- Manganese peroxid, Preparing. M. L. Kaplan. No. 1,293,461; Feb. 4; v. 259; p. 113.
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- Manhole. G. Caldwell. No. 1,310,055; July 15; v. 264; p. 443.
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- Manifold. J. M. Doll. No. 1,290,120; Jan. 7; v. 258; p. 26.
- Manifold and carbureter, Combination. G. E. Franklin. No. 1,324,806; Dec. 16; v. 269; p. 406.
- Manifold-heater. S. G. and P. G. Foster. No. 1,302,349; Apr. 29; v. 261; p. 910.
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- Manifold-heater. T. P. Logan. No. 1,312,554; Aug. 12; v. 265; p. 161.
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- Manifold-lock. R. O. Wones. No. 1,308,154; July 1; v. 264; p. 27.
- Manifold, Superheating. J. G. Lawshe. No. 1,317,712; Oct. 7; v. 267; p. 10.
- Manifolding. G. Péreire. No. 1,292,868; Jan. 28; v. 258; p. 760.
- Manifolding and cash register, Autographing. A. Krauth. No. 1,307,679; June 24; v. 263; p. 551.
- Manifolding device. F. E. Sampson. No. 1,321,557; Nov. 11; v. 268; p. 290.
- Manifolding-machine. A. Krauth. No. 1,294,119; Feb. 11; v. 259; p. 298.
- Manifolding sales-book. E. K. Bottle. No. 1,305,056; May 27; v. 262; p. 587.
- Manifolding sales-book. C. L. Johnston. No. 1,309,289; July 8; v. 264; p. 265.
- Manometer. H. Martin. No. 1,320,484; Nov. 4; v. 268; p. 24.
- Manure-loader. E. W. Burgess. No. 1,323,674; Dec. 2; v. 269; p. 84.
- Manure-loader. P. H. Johns. No. 1,313,297; Aug. 19; v. 265; p. 324.
- Manure-loader. G. A. Speelman. No. 1,293,229; Feb. 4; v. 259; p. 58.
- Manure-spreader. H. Aamodt. No. 1,326,163; Dec. 30; v. 269; p. 711.
- Manure-spreader. O. Bucklin. No. 1,324,540; Dec. 9; v. 269; p. 294.
- Manure-spreader. E. C. Litchfield and C. E. Shiple. No. 1,322,031; Nov. 18; v. 268; p. 429.
- Manure-spreader. J. H. Mott. No. 1,320,782; Nov. 4; v. 268; p. 79.
- Manure-spreader. J. F. Rude. No. 1,310,445; July 22; v. 264; p. 545.
- Manure-spreader. H. Synck. No. 1,313,427; Aug. 19; v. 265; p. 348.
- Manure-spreader beaters, Driving means for. J. F. Rude. No. 1,325,958; Dec. 23; v. 269; p. 637.
- Manure-spreader-body construction. J. F. Rude. No. 1,325,957; Dec. 23; v. 269; p. 636.
- Manure-spreaders, Gearing for. B. B. Rollman. No. 1,313,116; Aug. 12; v. 265; p. 273.
- Map-box and map. A. G. Johnson. No. 1,312,445; Aug. 5; v. 265; p. 111.
- Map, Globe-. W. P. Smith. No. 1,302,602; May 6; v. 262; p. 23.
- Map-holder. E. Petrick. No. 1,290,652; Jan. 7; v. 258; p. 154.
- Marble-shooter. G. C. Kennedy. No. 1,302,378; Apr. 29; v. 261; p. 916.
- Marble, Staining. M. L. McDonough. No. 1,293,832; Feb. 11; v. 259; p. 230.
- Marcel waver. A. Schärer. No. 1,319,180; Oct. 21; v. 267; p. 377.
- Margin-bearer. E. P. Sheldon. No. 1,325,760; Dec. 23; v. 269; p. 600.
- Margin-release. A. O. H. Ebert. No. 1,303,783; May 13; v. 262; p. 271.
- Margins of flexible materials, Means and method for uniting. J. W. Wallace. No. 1,297,047; Mar. 11; v. 260; p. 314.
- Marine boiler. J. E. Bell. No. 1,303,758; May 13; v. 262; p. 267.
- Marine log. E. W. Dorey. No. 1,307,624; June 24; v. 263; p. 541.
- Marine lugs, Indicating or recording apparatus applicable to. P. G. Blot-Garnier and G. P. Chevalier. No. 1,296,947; Mar. 11; v. 260; p. 292.
- Marine propulsion. H. T. Herr. No. 1,291,876; Jan. 21; v. 257; p. 498.
- Marine propulsion mechanism. R. B. Owen. No. 1,302,957; May 6; v. 262; p. 91.
- Marine signal. A. Dutka. No. 1,318,650; Oct. 14; v. 267; p. 250.
- Marine structure. F. W. Erickson. No. 1,293,063; Feb. 4; v. 259; p. 22.
- Marine way. C. S. Clark. No. 1,316,831; Sept. 23; v. 266; p. 507.
- Marker. P. Giordano. No. 1,312,248; Aug. 5; v. 265; p. 74.
- Marker. R. C. Palmer. No. 1,310,369; July 15; v. 264; p. 500.
- Marker and divider for merchandise. J. C. Noziska. No. 1,317,589; Sept. 30; v. 266; p. 687.
- Marker, Mill-roll. L. E. Simpson. No. 1,291,206; Jan. 14; v. 258; p. 309.
- Marker, Skirt-. J. C. Kottman. No. 1,249,117; Feb. 11; v. 259; p. 298.
- Marker, Welt and flap. G. F. Tucciarone. No. 1,326,226; Dec. 30; v. 269; p. 724.
- Marking device. E. E. Allen. No. 1,294,595; Feb. 18; v. 259; p. 444.
- Marking device, Ink-fed. J. F. Mehren. No. 1,296,305; Mar. 4; v. 260; p. 111.
- Marking-machine. J. J. Casey. No. 1,324,877; Dec. 16; v. 269; p. 419.
- Marking-machine. J. G. F. Rooker. No. 1,313,016; Aug. 12; v. 265; p. 253.
- Marking-machine. A. A. Waterman. No. 1,292,936; Jan. 28; v. 258; p. 776.
- Marking machine, Line-. N. W. Halsey. No. 1,326,726; Dec. 30; v. 269; p. 817.
- Marking means for sensitized material. W. A. Brown. No. 1,315,655; Sept. 9; v. 266; p. 224.
- Marking various articles, Machine for. W. Neuswanger. No. 1,301,076; Apr. 15; v. 261; p. 600.
- Marmite. G. W. Ferdon. No. 1,300,712; Apr. 15; v. 261; p. 520.
- Mask. J. A. Dobe. No. 1,319,273; Oct. 21; v. 267; p. 394.
- Mask, Diver's. B. F. Runyan. No. 1,324,747; Dec. 9; v. 269; p. 333.
- Mask, Gas-. N. Schwartz. No. 1,320,935; Nov. 4; v. 268; p. 109.
- Mask, Ventilating-. G. E. Darrow. No. 1,323,217; Nov. 25; v. 268; p. 705.
- Masonry construction, Reinforced. C. A. Willson. No. 1,314,558; Sept. 2; v. 266; p. 16.
- Massage apparatus. S. Kurth. No. 1,314,525; Sept. 2; v. 266; p. 9.
- Massage apparatus. C. Nehrke. No. 1,308,805; July 8; v. 264; p. 174.
- Massage apparatus. F. J. Niles. No. 1,291,612; Jan. 14; v. 258; p. 404.
- Massage device. D. J. Heagany. No. 1,310,950; July 22; v. 264; p. 638.
- Massage device. J. R. Marsico. No. 1,305,917; June 3; v. 263; p. 130.
- Massage-machine. F. J. Niles. No. 1,291,611; Jan. 14; v. 258; p. 404.
- Massage-machine. G. S. Noble. No. 1,322,720; Nov. 25; v. 268; p. 611.
- Massage-machine, Electric. C. W. Kent. No. 1,305,725; June 3; v. 263; p. 94.
- Massage-vibrator. G. W. Moore. No. 1,301,866; Apr. 29; v. 261; p. 819.
- Massage-vibrators, Cover for cups of. C. J. Mezera and J. J. Dubrava. No. 1,322,924; Nov. 25; v. 268; p. 649.
- Massaging device. F. Johnson. No. 1,326,452; Dec. 30; v. 269; p. 766.
- Massaging implement. A. Anderson. No. 1,313,448; Aug. 19; v. 265; p. 352.
- Massaging instrument. R. R. Root. No. 1,325,332; Dec. 16; v. 269; p. 504.

- Masticator. C. Pletscher and L. C. Reese. No. 1,324,170; Dec. 9; v. 269; p. 222.
- Mat: See—
- Pneumatic mat. Self-locking mat.
- Mat. C. R. Goldsmith. No. 1,304,474; May 20; v. 262; p. 440.
- Mat. J. A. Kottler. No. 1,316,902; Sept. 23; v. 266; p. 519.
- Mat-fitting. A. C. Hayden. No. 1,306,336; June 10; v. 263; p. 240.
- Mat. Traction-. L. C. Niewoehner. No. 1,325,575; Dec. 23; v. 269; p. 566.
- Mats. Machine for assembling sole-leather and like. A. C. Hayden. No. 1,306,337; June 10; v. 263; p. 240.
- Match-box. I. Blumenthal. No. 1,296,912; Mar. 11; v. 260; p. 284.
- Match-box. H. C. Pedersen. No. 1,318,458; Oct. 14; v. 267; p. 213.
- Match-box. W. Ramanauskas. No. 1,297,593; Mar. 18; v. 260; p. 459.
- Match-box. L. Saha. No. 1,296,123; Mar. 4; v. 260; p. 71.
- Match-box holder. P. A. Brouillette. No. 1,321,414; Nov. 11; v. 268; p. 264.
- Match composition and producing same. W. A. Fairburn and F. V. D. Crusier. No. 1,290,146; Jan. 7; v. 258; p. 32.
- Match-dispensing machine. J. Nazarian. No. 1,294,824; Feb. 18; v. 259; p. 498.
- Match holder and igniter. J. N. Cayo. No. 1,293,032; Feb. 4; v. 259; p. 14.
- Match-igniting device. J. E. Neahr. No. 1,301,158; Apr. 22; v. 261; p. 651.
- Match-lighter for fluid-burning apparatus. G. W. Brown. No. 1,325,462; Dec. 16; v. 269; p. 527.
- Match-machine veneer-feeding device. J. K. Knowles. No. 1,293,802; Feb. 11; v. 259; p. 223.
- Match-machines. Splint-setting mechanism for. J. P. Wright. No. 1,319,744; Oct. 28; v. 267; p. 507.
- Match-packet. H. A. Stern. No. 1,320,287; Oct. 28; v. 267; p. 608.
- Match retaining and dispensing device. T. Hayashi. No. 1,292,463; Jan. 28; v. 258; p. 663.
- Match-scratcher. W. B. Nicoll. No. 1,304,194; May 20; v. 262; p. 384.
- Match-splints into conveyor-plates and the like. Method of and means for filling. J. G. Sjöström. No. 1,292,896; Jan. 28; v. 258; p. 767.
- Match-splints with powdered material. Means for treating. J. P. Bennett. No. 1,326,633; Dec. 30; v. 269; p. 800.
- Match-splints with powdered material. Means for treating. J. C. Donnelly. No. 1,313,472; Aug. 19; v. 265; p. 356.
- Match-striker. F. F. Peters. No. 1,292,035; Jan. 21; v. 258; p. 539.
- Matches in order to render them immune to the action of moisture. Treating. F. Johnston. No. 1,301,448; Apr. 22; v. 261; p. 708.
- Matches. Machine for making card-. J. C. Donnelly. No. 1,313,471; Aug. 19; v. 265; p. 356.
- Matches. Method and means for assembling. M. Paridon. No. 1,305,561; June 3; v. 263; p. 63.
- Matches or match-boxes. Holder for. O. Stokkan. No. 1,291,231; Jan. 14; v. 258; p. 315.
- Matched-board layer. R. E. Aylworth and L. Wiersma. No. 1,313,664; Aug. 19; v. 265; p. 392.
- Matcher. End-. W. S. Sherman. No. 1,320,422; Nov. 4; v. 268; p. 12.
- Material projecting beyond seams. Machine for removing surplus. A. Latham. No. 1,319,293; Oct. 21; v. 267; p. 398.
- Material-spreader. H. J. Bangert. No. 1,312,226; Aug. 5; v. 265; p. 70.
- Material-transferring apparatus. E. G. Carr. No. 1,295,849; Mar. 4; v. 260; p. 7.
- Mathematical instrument. H. C. Hart. No. 1,320,689; Nov. 4; v. 268; p. 62.
- Mathematical instrument. R. C. Sanborn. No. 1,310,547; July 22; v. 264; p. 564.
- Mathematical instrument and the like. J. A. Hagerstrom. No. 1,309,131; July 8; v. 264; p. 236.
- Matrices. Bending. H. F. Bechman. No. 1,318,044; Oct. 7; v. 267; p. 73.
- Matrices for use in the restoration of teeth. Former for. W. C. Smith. No. 1,304,396; May 20; v. 262; p. 424.
- Matrix-block. J. B. Pringle. No. 1,297,731; Mar. 18; v. 260; p. 489.
- Matrix-distributing mechanism. H. Petersen. No. 1,317,098; Sept. 23; v. 266; p. 557.
- Matrix-drying press. W. H. Walton and H. D. Tappan. No. 1,301,888; Apr. 29; v. 261; p. 824.
- Matrix for strip material. W. R. Cozatt. No. 1,298,900; Apr. 1; v. 261; p. 65.
- Matrix-machine. J. C. McFarland. No. 1,299,749; Apr. 8; v. 261; p. 286.
- Mattress. M. G. Stevenson. No. 1,306,787; June 17; v. 263; p. 355.
- Mattress and cushion. J. Hoey. No. 1,295,030; Feb. 18; v. 259; p. 544.
- Mattress and garment. Combined pneumatic. R. Werner. No. 1,316,469; Sept. 16; v. 266; p. 390.
- Mattress and the like. Spring-. S. R. Kitchen. No. 1,312,125; Aug. 5; v. 265; p. 51.
- Mattress attachment. J. W. Duncan and J. A. Shute. No. 1,312,110; Aug. 5; v. 265; p. 49.
- Mattress basin-drain. A. M. Bidwell. No. 1,295,844; Mar. 4; v. 260; p. 6.
- Mattress for invalids. E. F. Lamont. No. 1,295,770; Feb. 25; v. 259; p. 738.
- Mattress. Hospital-. S. L. Gossard. No. 1,302,915; May 6; v. 262; p. 83.
- Mattress. Metallic spring-. J. Epstein. No. 1,307,543; June 24; v. 263; p. 527.
- Mattress. Pneumatic. C. H. Stonebridge. No. 1,317,235; Sept. 30; v. 266; p. 618.
- Mattress-roll-forming machine. J. W. Droll. No. 1,300,139; Apr. 8; v. 261; p. 372.
- Mattress-roll-forming machine. J. W. Droll. No. 1,300,140; Apr. 8; v. 261; p. 372.
- Mattress. Sanitary. C. Linman. No. 1,291,036; Jan. 14; v. 258; p. 270.
- Mattress. Spring-. B. B. Englander. No. 1,297,552; Mar. 18; v. 260; p. 451.
- Mattress. Spring-. B. B. Englander. No. 1,325,935; Dec. 23; v. 269; p. 632.
- Mattress. Surf-. H. B. Marshall. No. 1,307,825; June 24; v. 263; p. 578.
- Mattress-tufting apparatus. W. H. A. Williams. No. 1,298,847; Apr. 1; v. 261; p. 53.
- Mausoleum-crypt. G. C. Kennedy. No. 1,300,173; Apr. 8; v. 261; p. 379.
- Measure dispensing apparatus. Visible-. A. McKellar. No. 1,305,139; May 27; v. 262; p. 602.
- Measure. Foot-. W. Scharun. Sr. No. 1,297,500; Mar. 18; v. 260; p. 439.
- Measure. Oil and gasoline. E. R. Frank. No. 1,301,677; Apr. 22; v. 261; p. 752.
- Measure. Tape-. J. Komorous. No. 1,320,767; Nov. 4; v. 268; p. 76.
- Measurement-tickets or other tickets to fabrics and the like. Machine for affixing. W. S. Hubbard. No. 1,309,069; July 8; v. 264; p. 224.
- Measuring and computing machine. Cloth. W. E. Hosch. No. 1,298,162; Mar. 25; v. 260; p. 607.
- Measuring and controlling mechanism. E. H. Bristol. No. 1,326,640; Dec. 30; v. 269; p. 801.
- Measuring and dispensing device. C. E. Moore. No. 1,299,001; Apr. 1; v. 261; p. 89.
- Measuring and dispensing machine. M. G. Bunnell. No. 1,291,759; Jan. 21; v. 258; p. 470.
- Measuring and feeding device. O. H. Hansen. No. 1,318,867; Oct. 14; v. 267; p. 291.
- Measuring and indicating instrument. Gas. D. Lambert. No. 1,303,073; May 6; v. 262; p. 112.
- Measuring and inspection tank for liquids. M. Lupinski. No. 1,294,499; Feb. 18; v. 259; p. 422.
- Measuring and mixing apparatus. I. F. Hepler. No. 1,313,892; Aug. 26; v. 265; p. 468.
- Measuring and recording device. Profile. M. M. Cram. No. 1,308,580; July 1; v. 264; p. 104.
- Measuring and sack-filling device. Grain-. J. J. Wojcik. No. 1,313,149; Aug. 12; v. 265; p. 280.
- Measuring and weighing device. J. M. Edwards. No. 1,320,678; Nov. 4; v. 268; p. 59.
- Measuring angular velocities, &c., Method and apparatus for. J. S. Wilson and W. E. Dalby. No. 1,322,153; Nov. 18; v. 268; p. 452.
- Measuring apparatus. C. Berger. No. 1,295,842; Mar. 4; v. 260; p. 5.
- Measuring apparatus. T. B. Garrett. No. 1,292,752; Jan. 28; v. 258; p. 733.
- Measuring apparatus. H. Kläger. No. 1,308,179; July 1; v. 264; p. 32.
- Measuring apparatus. L. W. Peck. No. 1,312,351; Aug. 5; v. 265; p. 92.
- Measuring apparatus. C. L. Riley. No. 1,297,595; Mar. 18; v. 260; p. 460.
- Measuring apparatus. J. K. Wood. No. 1,309,270; July 8; v. 264; p. 261.
- Measuring apparatus. Electrical. I. B. Smith and C. R. Cary. No. 1,314,610; Sept. 2; v. 266; p. 25.
- Measuring apparatus. Liquid-. A. W. Abel. No. 1,326,705; Dec. 30; v. 269; p. 813.
- Measuring apparatus. Liquid-. G. W. MacKenzie, Jr. No. 1,297,210; Mar. 11; v. 260; p. 349.
- Measuring apparatus. Liquid-. G. Moore. No. 1,308,855; July 8; v. 264; p. 183.
- Measuring-can. H. T. Hipwell. No. 1,315,724; Sept. 9; v. 266; p. 237.
- Measuring device. W. J. Brittain. No. 1,297,649; Mar. 18; v. 260; p. 471.
- Measuring device. E. B. Cade. No. 1,300,116; Apr. 8; v. 261; p. 367.
- Measuring device. G. F. Eason. No. 1,295,015; Feb. 18; v. 259; p. 541.
- Measuring device. M. Morris. No. 1,308,295; July 1; v. 264; p. 53.
- Measuring device. W. G. Patridis. No. 1,293,531; Feb. 4; v. 259; p. 129.
- Measuring device. G. L. Pratt. No. 1,313,731; Aug. 19; v. 265; p. 405.
- Measuring device. J. Slepian. No. 1,299,252; Apr. 1; v. 261; p. 145.



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- Measuring device for sewing-machines, Thread-. L. F. Johnson. No. 1,320,330; Oct. 28; v. 267; p. 616.
- Measuring device, Grade-. J. H. Werner. No. 1,320,352; Oct. 28; v. 267; p. 620.
- Measuring device, Liquid-. A. A. Lanaux. No. 1,303,820; May 13; v. 262; p. 278.
- Measuring device, Liquid-. R. Matthews. No. 1,325,102; Dec. 16; v. 269; p. 460.
- Measuring device, Liquid-. C. E. Steere. No. 1,298,814; Apr. 1; v. 261; p. 46.
- Measuring device, Spray. F. G. Henry. No. 1,316,721; Sept. 23; v. 266; p. 487.
- Measuring device, Web-. E. E. McMillan. No. 1,323,402; Dec. 2; v. 269; p. 34.
- Measuring-dispenser. C. S. Mauldin. No. 1,290,274; Jan. 7; v. 258; p. 63.
- Measuring-faucet, Sanitary. A. Ballard. No. 1,302,276; Apr. 29; v. 261; p. 896.
- Measuring heights or horizontal distances, Means for. A. Barr and W. Stroud. No. 1,322,751; Nov. 25; v. 268; p. 617.
- Measuring implement. C. W. Baker. No. 1,322,395; Nov. 18; v. 268; p. 498.
- Measuring implement. H. M. Schnippel. No. 1,298,579; Mar. 25; v. 260; p. 696.
- Measuring instrument. S. Auer. No. 1,291,711; Jan. 21; v. 258; p. 458.
- Measuring instrument. J. C. Barrett. No. 1,305,640; June 3; v. 263; p. 79.
- Measuring instrument. J. C. Barrett. No. 1,308,751; July 8; v. 264; p. 165.
- Measuring instrument. E. H. Bristol. No. 1,290,890; Jan. 14; v. 258; p. 236.
- Measuring instrument. F. S. Buckminster. No. 1,323,740; Dec. 2; v. 269; p. 96.
- Measuring instrument. J. F. Craddock. No. 1,323,018; Nov. 25; v. 268; p. 667.
- Measuring instrument. B. N. Davis. No. 1,298,302; Mar. 25; v. 260; p. 637.
- Measuring instrument. W. Eastwood. No. 1,322,770; Nov. 25; v. 268; p. 620.
- Measuring instrument. G. W. Gross. No. 1,303,471; May 13; v. 262; p. 214.
- Measuring instrument. H. W. Hacker. No. 1,307,775; June 24; v. 263; p. 568.
- Measuring instrument. H. W. Hacker. No. 1,307,776; June 24; v. 263; p. 569.
- Measuring instrument. P. M. Lincoln and B. H. Smith. No. 1,300,283; Apr. 15; v. 261; p. 429.
- Measuring instrument. S. C. MacDowney. No. 1,299,978; Apr. 8; v. 261; p. 336.
- Measuring instrument. E. J. Ohnell. No. 1,312,566; Aug. 12; v. 265; p. 165.
- Measuring instrument. J. C. Shaw. No. 1,290,375; Jan. 7; v. 258; p. 87.
- Measuring instrument. E. Spellman. No. 1,295,936; Mar. 4; v. 260; p. 26.
- Measuring instrument. N. A. Stratton. No. 1,296,566; Mar. 4; v. 260; p. 168.
- Measuring instrument. H. V. S. Taylor. No. 1,300,513; Apr. 15; v. 261; p. 478.
- Measuring instrument. F. M. Walters. No. 1,302,997; May 6; v. 262; p. 99.
- Measuring instrument, Electrical. H. G. Applegarth and H. B. Taylor. No. 1,303,146; May 6; v. 262; p. 128.
- Measuring instrument, Electrical. C. B. Berst. No. 1,292,571; Jan. 28; v. 258; p. 690.
- Measuring instrument, Electrical. C. A. Boddie. No. 1,290,492; Jan. 7; v. 258; p. 115.
- Measuring instrument, Electrical. C. A. Boddie. No. 1,296,616; Mar. 11; v. 260; p. 215.
- Measuring instrument, Electrical. W. M. Bradshaw. No. 1,290,499; Jan. 7; v. 258; p. 117.
- Measuring instrument, Electrical. W. M. Bradshaw. No. 1,318,723; Oct. 14; v. 267; p. 264.
- Measuring instrument, Electrical. W. M. Bradshaw and C. A. Boddie. No. 1,290,500; Jan. 7; v. 258; p. 117.
- Measuring instrument, Electrical. L. W. Chubb. No. 1,295,853; Mar. 4; v. 260; p. 8.
- Measuring instrument, Electrical. J. R. Knight. No. 1,299,736; Apr. 8; v. 261; p. 283.
- Measuring instrument, Electrical. H. H. Lyon. No. 1,292,496; Jan. 28; v. 258; p. 671.
- Measuring instrument, Electrical. W. E. Porter and A. L. R. Ellis. No. 1,306,624; June 10; v. 263; p. 293.
- Measuring instrument, Electrical. F. W. Roller. No. 1,312,753; Aug. 12; v. 265; p. 201.
- Measuring instrument, Lens-. G. A. H. Kellner. No. 1,309,359; July 8; v. 264; p. 277.
- Measuring instrument, Lens-. E. Stead. No. 1,292,121; Jan. 21; v. 258; p. 561.
- Measuring instrument of the range-finder type, Self-contained base single-observer height-. A. Barr and W. Stroud. No. 1,312,013; Aug. 5; v. 265; p. 30.
- Measuring instrument of the range-finder type, Self-contained base single-observer height-. A. Barr and W. Stroud. No. 1,312,014; Aug. 5; v. 265; p. 30.
- Measuring instruments, Rocker-bearing for. J. C. Barrett. No. 1,310,464; July 22; v. 264; p. 548.
- Measuring instruments, Scale mechanism for electrical. R. P. Brown and C. P. Frey. No. 1,320,119; Oct. 28; v. 267; p. 577.
- Measuring instruments, Scale mechanism for electrical. R. P. Brown, C. P. Frey, and F. Wagner. No. 1,320,120; Oct. 28; v. 267; p. 577.
- Measuring liquid-levels, Device for. A. Williams. No. 1,306,453; June 10; v. 263; p. 262.
- Measuring-machine. G. Brown. No. 1,321,361; Nov. 11; v. 268; p. 253.
- Measuring-machine. C. G. Richardson. No. 1,304,603; May 27; v. 262; p. 502.
- Measuring-machine. S. B. Tilly, and M. O. and J. G. Rehfuess. No. 1,293,987; Feb. 11; v. 259; p. 267.
- Measuring machine, Cloth-. J. J. Noonan. No. 1,298,250; Mar. 25; v. 260; p. 626.
- Measuring machine, Grain-. P. J. Powers. No. 1,299,861; Apr. 8; v. 261; p. 312.
- Measuring or computing machine. W. E. Hosch. No. 1,323,862; Dec. 2; v. 269; p. 120.
- Measuring-pan. G. W. Gwinn. No. 1,310,655; July 22; v. 264; p. 584.
- Measuring steam-flow, Calorimetric method and apparatus for. W. J. Crowell, Jr. No. 1,314,249; Aug. 26; v. 265; p. 538.
- Measuring-tank. J. H. Brady. No. 1,308,572; July 1; v. 264; p. 103.
- Measuring-tank. J. L. Geier. No. 1,304,305; May 20; v. 262; p. 406.
- Measuring-tape. E. Frank. No. 1,312,172; Aug. 5; v. 265; p. 60.
- Measuring the hardness or softness of eyes, Method of and means for. W. McLean. No. 1,291,050; Jan. 14; v. 258; p. 274.
- Measuring the rate of flow of aqueous fluids. E. G. Bailey. No. 1,299,540; Apr. 8; v. 261; p. 238.
- Measuring the rate of flow of fluids, Apparatus for. E. G. Bailey. No. 1,299,539; Apr. 8; v. 261; p. 238.
- Measuring the relative hardness of match-tips, Apparatus for. C. A. Piper. No. 1,293,189; Feb. 4; v. 259; p. 50.
- Measuring the temperature in mixing-machines and the like. L. C. Reese. No. 1,294,165; Feb. 11; v. 259; p. 308.
- Measuring-tool. S. T. Greene. No. 1,290,977; Jan. 14; v. 258; p. 257.
- Measuring, weighing, and registering machine. A. R. Muirhead. No. 1,319,105; Oct. 21; v. 267; p. 362.
- Meat and bone cutting machine. W. L. Brooke. No. 1,321,882; Nov. 18; v. 268; p. 402.
- Meat and other alimentary substances, Apparatus for preservation of. L. F. Bullot. No. 1,320,988; Nov. 4; v. 268; p. 119.
- Meat-block. T. N. Case. No. 1,326,438; Dec. 30; v. 269; p. 763.
- Meat-blocks, &c., Portable surfacing-tool for. C. F. Arkland. No. 1,326,829; Dec. 30; v. 269; p. 838.
- Meat-curing machine. M. F. Servatius. No. 1,315,242; Sept. 9; v. 266; p. 150.
- Meat-cutting tool. A. J. Odell. No. 1,316,503; Sept. 16; v. 266; p. 397.
- Meat-hook or the like. H. G. Voight. No. 1,316,209; Sept. 16; v. 266; p. 341.
- Meat, Machine and method for handling and inspecting. A. O. Lundell. No. 1,316,626; Sept. 23; v. 266; p. 469.
- Meat rail and hook. R. R. Hawk. No. 1,294,457; Feb. 18; v. 259; p. 413.
- Meat-saw. F. E. Dobbins. No. 1,304,859; May 27; v. 262; p. 550.
- Meat-saw, Power-driven. E. E. Ehrlich. No. 1,302,333; Apr. 29; v. 261; p. 907.
- Meat-slicer attachment. A. H. Hieatzman. No. 1,293,774; Feb. 11; v. 259; p. 217.
- Meat-tenderer. F. R. Peeler. No. 1,326,780; Dec. 30; v. 269; p. 828.
- Meat to be stuffed from mixing to stuffing machines, Means for conveying. H. W. Burkhardt, Jr. No. 1,311,493; July 29; v. 264; p. 773.
- Mechanical classifier. F. E. Marcy. No. 1,306,188; June 10; v. 263; p. 210.
- Mechanical manipulating mechanism. C. B. Hardy and K. E. Gibson. No. 1,303,475; May 13; v. 262; p. 215.
- Mechanical motor. W. F. Krautter. No. 1,310,023; Jan. 15; v. 264; p. 437.
- Mechanical movement. J. S. Alsbaugh. No. 1,308,832; July 8; v. 264; p. 179.
- Mechanical movement. G. C. Ames. No. 1,314,728; Sept. 2; v. 266; p. 48.
- Mechanical movement. W. C. Baxter. No. 1,292,565; Jan. 28; v. 258; p. 689.
- Mechanical movement. A. H. De Voe. No. 1,306,104; June 10; v. 263; p. 195.
- Mechanical movement. A. and F. Didmer. No. 1,293,278; Feb. 4; v. 259; p. 11.
- Mechanical movement. B. P. Elker. No. 1,321,902; Nov. 18; v. 268; p. 406.
- Mechanical movement. W. H. Folsom. No. 1,323,851; Dec. 2; v. 269; p. 118.
- Mechanical movement. H. C. Ford. No. 1,317,915; Oct. 7; v. 267; p. 48.
- Mechanical movement. F. L. Freer. No. 1,317,917; Oct. 7; v. 267; p. 48.
- Mechanical movement. D. D. Gordon. No. 1,303,196; May 6; v. 262; p. 137.
- Mechanical movement. T. L. Green and C. H. Williams. No. 1,291,845; Jan. 21; v. 258; p. 491.

- Mechanical movement. L. Greenberg. No. 1,317,365; Sept. 30; v. 266; p. 643.
- Mechanical movement. E. D. Harris, Jr. No. 1,297,156; Mar. 11; v. 260; p. 338.
- Mechanical movement. J. C. Kopf. No. 1,318,770; Oct. 14; v. 267; p. 272.
- Mechanical movement. A. C. Lindgren. No. 1,301,854; Apr. 29; v. 261; p. 817.
- Mechanical movement. H. D. McKelvey. No. 1,324,125; Dec. 9; v. 269; p. 214.
- Mechanical movement. R. Miehle. No. 1,293,505; Feb. 4; v. 259; p. 124.
- Mechanical movement. A. S. Noonan. No. 1,322,333; Nov. 18; v. 268; p. 486.
- Mechanical movement. H. C. Pape. No. 1,314,696; Sept. 2; v. 266; p. 42.
- Mechanical movement. A. L. Sandels. No. 1,293,556; Feb. 4; v. 259; p. 135.
- Mechanical movement. A. von Schrenk. No. 1,291,664; Jan. 14; v. 258; p. 417.
- Mechanical movement. F. J. Schwerk. No. 1,318,507; Oct. 14; v. 267; p. 223.
- Mechanical movement. L. C. Sharp. No. 1,324,472; Dec. 9; v. 269; p. 281.
- Mechanical movement. J. E. Shearer. No. 1,326,468; Dec. 30; v. 269; p. 769.
- Mechanical movement. J. and H. Trust. No. 1,290,686; Jan. 7; v. 258; p. 163.
- Mechanical movement. A. B. Weriane. No. 1,324,945; Dec. 16; v. 269; p. 431.
- Mechanical movement. S. T. White. No. 1,300,312; Apr. 15; v. 261; p. 436.
- Mechanical movement and device. C. F. Hover. No. 1,299,184; Apr. 1; v. 261; p. 130.
- Mechanical movement and printing-press involving same. W. K. Hodgman, Jr. No. 1,302,866; Apr. 29; v. 261; p. 913.
- Mechanical movement, Intermittent. F. H. Walker. No. 1,326,238; Dec. 30; v. 269; p. 726.
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- Mechanical shovel. F. Lerch. No. 1,307,448; June 24; v. 263; p. 510.
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- Medicinal articles and products thereof, Preparing. E. Zueblin. No. 1,301,210; Apr. 22; v. 261; p. 662.
- Medicine-dispenser. E. C. Trowbridge. No. 1,313,566; Aug. 19; v. 265; p. 374.
- Medicine-dispensing device. P. Sellers. No. 1,325,660; Dec. 23; v. 269; p. 582.
- Medicine-receptacle. H. Ausubel. No. 1,320,440; Nov. 4; v. 268; p. 16.
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- Metallic joint, Flexible. W. Schulz. No. 1,315,610; Sept. 9; v. 266; p. 216.
- Metallic mixture and preparing same, Ignitable. C. T. J. Vautin. No. 1,318,709; Oct. 14; v. 267; p. 261.
- Metallic nitrides, Apparatus for production of. F. T. Snyder. No. 1,305,414; June 3; v. 263; p. 35.
- Metallic oxids, Treating. J. W. Moffat. No. 1,294,514; Feb. 18; v. 259; p. 426.
- Metallic partition. J. Cohen and A. J. Connell. No. 1,292,263; Jan. 21; v. 258; p. 595.
- Metallic railway-tie. A. F. Brown. No. 1,309,455; July 8; v. 264; p. 295.
- Metallic receptacle. F. G. Wacker. No. 1,314,445; Aug. 26; v. 265; p. 576.
- Metallic reductions, Economizing. O. Gerlach. No. 1,313,287; Aug. 19; v. 265; p. 322.
- Metallic spring-support. M. Stadler. No. 1,324,438; Dec. 9; v. 269; p. 274.
- Metallic structure. R. G. Bullock and H. E. Leave. No. 1,303,850; May 20; v. 262; p. 322.
- Metallic structure. L. S. Lachman. No. 1,300,740; Apr. 15; v. 261; p. 526.
- Metallic tie. W. W. Plowman. No. 1,296,425; Mar. 4; v. 260; p. 136.
- Metallic wheel. A. L. Putnam. No. 1,296,849; Mar. 11; v. 260; p. 268.
- Metallophone. S. Siegel. No. 1,291,202; Jan. 14; v. 258; p. 308.
- Metallurgical furnace. W. O. Borchardt. No. 1,316,267; Sept. 16; v. 266; p. 352.
- Metallurgical furnace, Electric. W. E. Moore. No. 1,293,164; Feb. 4; v. 259; p. 44.
- Metallurgical mass. D. Eppelsheimer. No. 1,290,143; Jan. 7; v. 258; p. 32.
- Metallurgical process. J. Lund. No. 1,320,483; Nov. 4; v. 268; p. 23.
- Metallurgical process. C. M. Malsch and C. H. Gilson. No. 1,303,701; May 13; v. 262; p. 256.
- Metatarsal support. M. D. Schwartz. No. 1,295,611; Feb. 25; v. 259; p. 702.
- Metaxylene from xylene substances, Separating. P. Lepers. No. 1,311,848; July 29; v. 264; p. 838.
- Meteorological apparatus. F. A. Swan. No. 1,320,291; Oct. 28; v. 267; p. 609.
- Meteorological instrument. C. E. Manning. No. 1,319,599; Oct. 21; v. 267; p. 457.
- Meter. See—
- |                           |                                       |
|---------------------------|---------------------------------------|
| Ampere-hour meter.        | Fluid-current meter.                  |
| Cloth-meter.              | Gas-meter.                            |
| Compound meter.           | Guide-meter.                          |
| Demand-meter.             | Liquid-meter.                         |
| Density-meter.            | Power-factor meter.                   |
| Disk meter.               | Ratio indicating and recording meter. |
| Efficiency-meter.         | Recording-meter.                      |
| Elastic-fluid meter.      | Steam-condensation meter.             |
| Electric meter.           | Thrust-meter.                         |
| Electric-current meter.   | Vibration-meter.                      |
| Electric watt-hour meter. | Water-meter.                          |
| Excess-demand meter.      | Wave-meter.                           |
| Exposure-meter.           | Vita-meter.                           |
| Flow-meter.               |                                       |
| Fluid-meter.              |                                       |
- Meter. M. Smithey. No. 1,307,157; June 17; v. 263; p. 423.
- Meter. M. Smithey. No. 1,314,285; Aug. 26; v. 265; p. 545.
- Meter. C. C. Thomas. No. 1,304,920; May 27; v. 262; p. 561.
- Meter-actuated cut-off device. N. Anderson. No. 1,301,781; Apr. 22; v. 261; p. 773.
- Meter-box, Convertible. H. E. Bloomer. No. 1,316,218; Sept. 16; v. 266; p. 343.
- Meter inlet control, Sensitive weir. D. R. Yarnall. No. 1,307,609; June 24; v. 263; p. 538.
- Meter or registering apparatus. J. E. Lea. No. 1,293,130; Feb. 4; v. 259; p. 37.
- Meter-panel, Shift-socket. H. F. Krantz. No. 1,306,341; June 10; v. 263; p. 341.
- Meter-support. M. W. Russell. No. 1,290,665; Jan. 7; v. 258; p. 158.
- Meter-testing apparatus. H. J. Blakeslee. No. 1,309,931; July 15; v. 264; p. 421.
- Meter-testing connection. C. H. Bissell and H. P. Hastings. No. 1,300,690; Apr. 15; v. 261; p. 515.
- Meters, Maximum-demand indicator for electric. E. M. Ashworth. No. 1,323,518; Dec. 2; v. 269; p. 56.
- Meters, Means for testing. R. L. Dezendorf. No. 1,306,657; June 10; v. 263; p. 299.
- Meters, Means for testing gas. R. L. Dezendorf. No. 1,306,658; June 10; v. 263; p. 299.
- Meters, Means for testing gas. R. L. Dezendorf. No. 1,306,659; June 10; v. 263; p. 300.
- Meters, Speed-reduction mechanism for. E. E. McCollum. No. 1,310,760; July 22; v. 264; p. 603.
- Meters, Support for. R. D. Simpson. No. 1,315,244; Sept. 9; v. 266; p. 151.
- Meters, Testing gas. R. L. Dezendorf. No. 1,306,660; June 10; v. 263; p. 300.
- Metering device. E. S. Cary. No. 1,310,739; July 22; v. 264; p. 599.
- Metering electricity for lighting and heating purposes, System and means for differentially. L. Birks and J. R. Templin. No. 1,298,649; Apr. 1; v. 261; p. 6.
- Metering system. R. B. Stitzer and H. E. Sovereign. No. 1,299,632; Apr. 8; v. 261; p. 259.
- Methane, Oxidation of. R. K. Bailey. No. 1,319,748; Oct. 28; v. 267; p. 507.
- Mica bodies and making same, Composite. C. E. Swett. No. 1,320,509; Nov. 4; v. 268; p. 28.
- Mica from feldspar, Separating. G. J. Bancroft. No. 1,310,939; July 22; v. 264; p. 636.
- Micrometer. A. T. Blush. No. 1,311,548; July 29; v. 264; p. 783.
- Micrometer. J. F. Garbin. No. 1,307,816; June 24; v. 263; p. 576.
- Micrometer. J. A. Mackey. No. 1,323,707; Dec. 2; v. 269; p. 90.
- Micrometer. W. C. Stenger. No. 1,299,256; Apr. 1; v. 261; p. 146.
- Micrometer drilling-gage. B. Bollie. No. 1,305,872; June 3; v. 263; p. 121.
- Micrometer-gage. E. E. Ciba. No. 1,318,726; Oct. 14; v. 267; p. 284.
- Micrometer-gage. W. Maddison. No. 1,315,318; Sept. 9; v. 266; p. 164.
- Micrometer-indicator. J. Boulet. No. 1,303,245; May 13; v. 262; p. 174.
- Micrometer, Multiple. F. E. Culver. No. 1,291,771; Jan. 21; v. 258; p. 473.
- Micrometer-scale gage. F. E. Harter. No. 1,311,602; July 29; v. 264; p. 793.
- Micrometer, Screw-thread. L. C. Blomstrom. No. 1,300,692; Apr. 15; v. 261; p. 516.



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- Micrometer, Thread-. J. T. Slocomb. No. 1,291,211; Jan. 14; v. 258; p. 310.
- Micrometers, Ratchet extension for. L. Lowenstein. No. 1,308,988; July 8; v. 264; p. 208.
- Micrometric gage. A. H. Whatley. No. 1,317,746; Oct. 7; v. 267; p. 16.
- Micrometric gage. A. H. Whatley. No. 1,317,747; Oct. 7; v. 267; p. 17.
- Micrometric tracing-gage. H. Knab. No. 1,322,302; Nov. 18; v. 268; p. 480.
- Microphone, Multiple-contact. W. K. J. Rudolph. No. 1,315,337; Sept. 9; v. 266; p. 168.
- Microscope attachment. B. Garretson. No. 1,294,255; Feb. 11; v. 259; p. 330.
- Microscope-illuminator. T. Lidberg. No. 1,316,050; Sept. 16; v. 266; p. 311.
- Microscopes, Illuminator for. A. Silverman. No. 1,311,185; July 29; v. 264; p. 715.
- Microscopes, Illuminator for. A. Silverman. No. 1,311,186; July 29; v. 264; p. 715.
- Military equipment. A. A. Lethern. No. 1,301,421; Apr. 22; v. 261; p. 703.
- Military equipment. W. P. Wise. No. 1,324,419; Dec. 9; v. 269; p. 271.
- Military weapon. D. Fallon. No. 1,322,775; Nov. 25; v. 268; p. 621.
- Milk and letter box, Combination. F. Szanislo. No. 1,296,712; Mar. 11; v. 260; p. 237.
- Milk and mail box, Combination. I. O. Torkelson. No. 1,313,354; Aug. 19; v. 265; p. 334.
- Milk aerator, cooler, and protecting device. R. I. Gill. No. 1,320,543; Nov. 4; v. 268; p. 85.
- Milk apparatus for producing dried. C. H. Campbell. No. 1,292,577; Jan. 28; v. 258; p. 692.
- Milk-boiler. J. Ciapciak. No. 1,317,552; Sept. 30; v. 266; p. 679.
- Milk-boiler. M. Vegh. No. 1,322,846; Nov. 25; v. 268; p. 634.
- Milk-bucket seal. J. A. Olavessen. No. 1,293,892; Feb. 11; v. 259; p. 244.
- Milk-can. H. A. Crawley. No. 1,308,047; July 1; v. 264; p. 7.
- Milk-can. F. Chalfant. No. 1,298,884; Apr. 1; v. 261; p. 61.
- Milk-can cleaning and spraying device. P. T. Leahy. No. 1,298,973; Apr. 1; v. 261; p. 83.
- Milk-can-cover lock. G. E. Pollock. No. 1,317,891; Oct. 7; v. 267; p. 44.
- Milk-can safety device. G. H. Vogel. No. 1,302,459; Apr. 29; v. 261; p. 932.
- Milk-can washer. C. A. Christ. No. 1,304,260; May 20; v. 262; p. 397.
- Milk-cans. Apparatus for filling. J. Roberts. No. 1,290,358; Jan. 7; v. 258; p. 83.
- Milk-cap-separating machine, Automatic. C. H. Supplee. No. 1,326,115; Dec. 23; v. 269; p. 666.
- Milk-cocoa compound and producing same. W. A. West. No. 1,308,770; July 8; v. 264; p. 168.
- Milk, cream, &c., Apparatus for pasteurizing, cooling, and ripening. S. J. Van Kuren. No. 1,319,916; Oct. 28; v. 267; p. 539.
- Milk. Device for skimming or creaming. R. Clavel. No. 1,323,015; Nov. 25; v. 268; p. 666.
- Milk-dispensing apparatus. G. Poulos. No. 1,306,313; June 10; v. 263; p. 236.
- Milk-dispensing apparatus. D. B. Ryan. No. 1,317,594; Sept. 30; v. 266; p. 687.
- Milk. Manufacture of artificial. K. Erslev. No. 1,297,668; Mar. 18; v. 260; p. 475.
- Milk-measure. Sanitary. W. C. Smith. No. 1,292,904; Jan. 28; v. 258; p. 769.
- Milk, &c., Method and apparatus for sterilizing and preserving. J. F. Moscrop. No. 1,319,238; Oct. 21; v. 267; p. 388.
- Milk or cream vat. T. L. Valerius. No. 1,323,427; Dec. 2; v. 269; p. 38.
- Milk-receptacle. P. Nasi. No. 1,306,971; June 17; v. 263; p. 389.
- Milk strainer and cooler. G. A. Wilson. No. 1,301,775; Apr. 22; v. 261; p. 772.
- Milk-tester. E. Kaddatz. No. 1,293,793; Feb. 11; v. 259; p. 221.
- Milk-treating device. H. M. Kessler. No. 1,321,106; Nov. 11; v. 268; p. 204.
- Milker's mask. F. W. Elleby. No. 1,290,140; Jan. 7; v. 258; p. 31.
- Milking apparatus. L. Dinesen. No. 1,307,539; June 24; v. 263; p. 526.
- Milking apparatus. R. B. Disbrow. No. 1,304,280; May 20; v. 262; p. 401.
- Milking apparatus. R. B. Disbrow. No. 1,308,051; July 1; v. 264; p. 8.
- Milking apparatus. R. B. Disbrow. No. 1,308,053; July 1; v. 264; p. 9.
- Milking apparatus. E. E. Good. No. 1,297,346; Mar. 18; v. 260; p. 408.
- Milking-apparatus attachment. C. O. Anderson. No. 1,301,992; Apr. 29; v. 261; p. 843.
- Milking-machine. J. S. Buckwalter. No. 1,309,457; July 8; v. 264; p. 295.
- Milking-machine. A. Close. No. 1,323,676; Dec. 2; v. 269; p. 85.
- Milking-machine. C. B. Dalzell. No. 1,296,166; Mar. 4; v. 260; p. 81.
- Milking-machine. C. B. Dalzell. No. 1,296,167; Mar. 4; v. 260; p. 81.
- Milking-machine. P. A. Frimand. No. 1,311,959; Aug. 5; v. 265; p. 20.
- Milking-machine. W. R. Nicoll. No. 1,300,857; Apr. 15; v. 261; p. 551.
- Milking-machine. G. von Post. No. 1,325,179; Dec. 16; v. 269; p. 475.
- Milking-machine. C. K. Salisbury. No. 1,306,634; June 10; v. 263; p. 295.
- Milking-machine. R. N. Saunders. No. 1,307,929; June 24; v. 263; p. 597.
- Milking-machine claw. M. Leitch. No. 1,316,582; Sept. 23; v. 266; p. 461.
- Milking machine, Cow-. C. O. Anderson. No. 1,316,072; Sept. 16; v. 266; p. 315.
- Milking-machine pulsator. J. L. Hulbert. No. 1,321,372; Nov. 11; v. 268; p. 255.
- Milking-machine pulsator. M. Leitch. No. 1,322,588; Nov. 25; v. 268; p. 586.
- Milking-machine pulsator. M. Leitch. No. 1,322,589; Nov. 25; v. 268; p. 587.
- Milking-machine teat-working mechanism. C. J. J. Hagg. No. 1,298,694; Apr. 1; v. 261; p. 17.
- Milking-machines, Teat-cup for. W. H. and M. Koch. No. 1,308,082; July 1; v. 264; p. 14.
- Milking-machines, Teat-cup for. W. H. and M. Koch and N. W. Gales. No. 1,322,311; Nov. 18; v. 268; p. 482.
- Mill; See—
- Ball-mill. Grinding-mill.
  - Ball or tube mill. Nut-mill.
  - Boring-mill. Reducing-mill.
  - Cane-mill. Roller-mill.
  - Cheese-curd mill. Rolling-mill.
  - Coffee-mill. Shingle-mill.
  - Fanning-mill. Tube-mill.
  - Feed-mill. Turning and boring mill.
  - Feed-cutting mill. Windmill.
  - Grain-grinding mill.
- Mill. R. A. Greene. No. 1,290,976; Jan. 14; v. 258; p. 256.
- Mill. T. J. Sturtevant. No. 1,296,134; Mar. 4; v. 260; p. 74.
- Mill apparatus, Warping. A. McMunn. No. 1,323,538; Dec. 2; v. 269; p. 60.
- Mill blade, Pugging-. A. O. Dupuy. No. 1,293,381; Feb. 4; v. 259; p. 94.
- Mill-building roof-system support and crane-column. W. S. Hutchinson. No. 1,291,529; Jan. 14; v. 258; p. 385.
- Mill furnace, Sheet and tin. T. V. Allis. No. 1,318,948; Oct. 14; v. 267; p. 307.
- Mill-headstocks, gables, and like machine parts, &c., Means for securing and aligning. T. E. Holmes. No. 1,291,521; Jan. 14; v. 258; p. 382.
- Mill liner, Ball-. J. R. Ball. No. 1,307,952; June 24; v. 263; p. 602.
- Mill-pinion. E. S. Black. No. 1,309,837; July 15; v. 264; p. 403.
- Mill screen attachment. O. J. Moussette, Sr. No. 1,302,697; May 6; v. 262; p. 41.
- Mill-tube. J. E. Miller. No. 1,295,347; Feb. 25; v. 259; p. 640.
- Mills, Attachment for plastic-mixing. H. A. Welton and H. J. Hoyt. No. 1,308,132; July 1; v. 264; p. 23.
- Mills, Automatic feeder for roller-. P. H. Lawson. No. 1,324,832; Dec. 16; v. 269; p. 411.
- Mills, Retarder for rod-. J. L. and S. A. Smith. No. 1,307,156; June 17; v. 263; p. 423.
- Miller, Vertical. R. T. Hazelton. No. 1,295,746; Feb. 25; v. 259; p. 732.
- Milling-cutter. A. N. Goddard. No. 1,311,686; July 29; v. 264; p. 808.
- Milling-cutter. F. O. Hoagland. No. 1,326,865; Dec. 30; v. 269; p. 844.
- Milling-cutter. J. Keiser. No. 1,316,959; Sept. 23; v. 266; p. 530.
- Milling-cutter. O. Laurenz. No. 1,319,714; Oct. 28; v. 267; p. 501.
- Milling-cutter holder. W. L. Brenner. No. 1,319,458; Oct. 21; v. 267; p. 430.
- Milling-machine. W. H. Barkwill. No. 1,308,029; July 1; v. 264; p. 4.
- Milling-machine. C. A. Bunker. No. 1,292,245; Jan. 21; v. 258; p. 591.
- Milling-machine. W. F. Groene. No. 1,316,230; Sept. 16; v. 266; p. 345.
- Milling-machine. R. Frazer and B. J. Robertson. No. 1,296,066; Mar. 4; v. 260; p. 57.
- Milling-machine. F. A. Parsons. No. 1,307,749; June 24; v. 263; p. 564.
- Milling-machine. J. C. Potter. No. 1,320,272; Oct. 28; v. 267; p. 605.
- Milling-machine. W. L. Schellenbach. No. 1,317,990; Oct. 7; v. 267; p. 63.
- Milling machine, Arc-. A. W. Meitz. No. 1,293,614; Feb. 4; v. 259; p. 148.
- Milling-machine, Circular. C. M. Conradson. No. 1,314,635; Sept. 2; v. 266; p. 31.
- Milling-machine, Contour-cutter. B. M. W. Hanson. No. 1,302,541; May 6; v. 262; p. 12.

- Milling-machine cutter. B. D. Ford. No. 1,313,628; Aug. 19; v. 265; p. 386.
- Milling-machine fixture. D. Miller. No. 1,316,317; Sept. 16; v. 266; p. 362.
- Milling-machine lubricating system. F. A. Parsons. No. 1,296,692; Mar. 11; v. 260; p. 233.
- Milling-machine, Semi-automatic roller-retainer. T. Zetterlund. No. 1,311,583; July 29; v. 264; p. 789.
- Milling machine, Thread-. F. L. Sattley and F. N. Ross. No. 1,325,584; Dec. 23; v. 269; p. 567.
- Milling-machines, Die sinking, engraving, and reproducing device for. J. F. Keller. No. 1,313,543; Aug. 19; v. 265; p. 370.
- Milling-machines, Dividing-head for. F. S. Shields and J. A. Camm. No. 1,312,277; Aug. 5; v. 265; p. 78.
- Milling machinery and grain-elevators, Spout for. E. C. Kellington. No. 1,323,225; Nov. 25; v. 268; p. 707.
- Milling screw-threads, Apparatus for. A. Hopkinson. No. 1,292,781; Jan. 28; v. 258; p. 739.
- Milling-tool. F. P. Lovejoy. No. 1,311,452; July 29; v. 264; p. 765.
- Milling-tool, Adjustable hollow. A. L. Geitner. No. 1,300,158; Apr. 8; v. 261; p. 376.
- Mine. W. H. Cherry. No. 1,292,255; Jan. 21; v. 258; p. 593.
- Mine. L. Feland. No. 1,318,857; Oct. 14; v. 267; p. 289.
- Mine-anchor cable-drums, Automatic brake for submarine-. J. Huber. No. 1,314,659; Sept. 2; v. 266; p. 35.
- Mine-anchors, Automatic control for cable-drums of. J. Huber and M. C. Indahl. No. 1,314,660; Sept. 2; v. 266; p. 35.
- Mine and anchor, Aircraft-planted-. C. L. Kee. No. 1,300,413; Apr. 15; v. 261; p. 457.
- Mine apparatus. A. Bucey. No. 1,294,868; Feb. 18; v. 259; p. 508.
- Mine apparatus, Explosive-. G. E. Elia. No. 1,309,121; July 8; v. 264; p. 234.
- Mine, Bending. R. V. Morse. No. 1,325,487; Dec. 16; v. 269; p. 531.
- Mine, Bomb or submarine. O. I. Straub and M. Wildrick. No. 1,310,586; July 22; v. 264; p. 571.
- Mine, Bomb or submarine. O. I. Straub and M. Wildrick. No. 1,311,781; July 29; v. 264; p. 826.
- Mine-cage hoist. T. Price. No. 1,300,647; Apr. 15; v. 261; p. 506.
- Mine-car wheel. H. W. E. Brosi. No. 1,296,914; Mar. 11; v. 260; p. 285.
- Mine controller and observation station, Submersible. J. A. and A. Krecioch. No. 1,296,816; Mar. 11; v. 260; p. 261.
- Mine-detonator. C. Anderson. No. 1,295,097; Feb. 25; v. 259; p. 583.
- Mine-door, Automatic safety. H. J. Meisel. No. 1,322,923; Nov. 25; v. 268; p. 648.
- Mine-door-operating means. J. J. Body, L. Long, M. L. Johnson, C. F. Kilgore, and A. Rlevins. No. 1,311,488; July 29; v. 264; p. 772.
- Mine, Drifting-. C. T. Minkler. No. 1,295,051; Feb. 18; v. 259; p. 549.
- Mine-drill. F. Kalata. No. 1,305,219; May 27; v. 262; p. 618.
- Mine-field puzzle. A. S. Doyle. No. 1,297,451; Mar. 18; v. 260; p. 429.
- Mine fields, Means to protect submarine-. F. I. du Pont. No. 1,304,549; May 27; v. 262; p. 493.
- Mine firing-gear and safety device therefor, Depth-. J. Huber. No. 1,314,662; Sept. 2; v. 266; p. 36.
- Mine firing-gear, Contact-. J. Huber. No. 1,319,153; Oct. 21; v. 267; p. 372.
- Mine firing-gears, Locking device for submarine-. J. Huber. No. 1,314,652; Sept. 2; v. 266; p. 34.
- Mine firing-gears, Locking device for submarine-. J. Huber. No. 1,314,653; Sept. 2; v. 266; p. 34.
- Mine firing-gears, Locking device for submarine-. J. Huber. No. 1,314,654; Sept. 2; v. 266; p. 34.
- Mine firing-gears, Means for preventing the premature explosion of depth-. J. Huber. No. 1,314,663; Sept. 2; v. 266; p. 36.
- Mine, Floating. T. Wrightson. No. 1,298,142; Mar. 25; v. 260; p. 602.
- Mine-gate, Automatically-operated. S. W. Warman. No. 1,299,074; Apr. 1; v. 261; p. 105.
- Mine-hoisting apparatus. W. E. Greenough, S. B. Davis, and A. Kragtorp. No. 1,317,366; Sept. 30; v. 266; p. 643.
- Mine, Horn-. S. P. Fullinwider and C. T. Minkler. No. 1,321,428; Nov. 11; v. 268; p. 266.
- Mine safety device. A. G. Biondi. No. 1,292,236; Jan. 21; v. 258; p. 590.
- Mine safety device. J. A. Nolan. No. 1,293,519; Feb. 4; v. 259; p. 127.
- Mine safety device. J. A. Nolan. No. 1,301,732; Apr. 22; v. 261; p. 763.
- Mine, Self-acting submersible contact-. M. Bertránd. No. 1,290,054; Jan. 7; v. 258; p. 10.
- Mine-shaft steel framing. O. D. McClure. No. 1,294,814; Feb. 18; v. 259; p. 495.
- Mine-sinker, Submarine-. T. G. Wrightson and J. M. Ringquist. No. 1,298,143; Mar. 25; v. 260; p. 603.
- Mine-skip. D. F. Lepley. No. 1,304,784; May 27; v. 262; p. 536.
- Mine, Submarine. C. E. Egan and E. F. Jackson. No. 1,306,372; June 10; v. 263; p. 247.
- Mine, Submarine. G. E. Elia. No. 1,296,273; Mar. 4; v. 260; p. 104.
- Mine, Submarine. G. E. Elia. No. 1,296,376; Mar. 4; v. 260; p. 126.
- Mine, Submarine. G. E. Elia. No. 1,299,440; Apr. 8; v. 261; p. 215.
- Mine, Submarine. F. A. H. Harlé. No. 1,298,937; Apr. 1; v. 261; p. 74.
- Mine, Submarine. J. Huber. No. 1,314,655; Sept. 2; v. 266; p. 34.
- Mine, Submarine. J. Huber. No. 1,314,656; Sept. 2; v. 266; p. 35.
- Mine, Submarine. J. Huber. No. 1,314,661; Sept. 2; v. 266; p. 36.
- Mine, Submarine. T. K. North. No. 1,299,011; Apr. 1; v. 261; p. 91.
- Mine, Submarine. T. K. North. No. 1,299,012; Apr. 1; v. 261; p. 91.
- Mine, Submarine. T. K. North. No. 1,299,601; Apr. 8; v. 261; p. 252.
- Mine, Submarine. T. K. North. No. 1,309,909; July 15; v. 264; p. 417.
- Mine, Submarine. T. K. North. No. 1,312,346; Aug. 5; v. 265; p. 91.
- Mine, Submarine. T. K. North. No. 1,318,687; Oct. 14; v. 267; p. 257.
- Mine, Submarine. G. B. Riley and H. O. Mock. No. 1,295,064; Feb. 18; v. 259; p. 552.
- Mine, Submarine. G. B. Riley and H. O. Mock. No. 1,295,065; Feb. 18; v. 259; p. 552.
- Mine, Submarine. G. B. Riley, C. C. Sherman, and H. O. Mock. No. 1,295,066; Feb. 18; v. 259; p. 552.
- Mine, Submarine. G. B. Riley, C. C. Sherman, and H. O. Mock. No. 1,295,067; Feb. 18; v. 259; p. 552.
- Mine, Submarine. E. Schneider. No. 1,321,775; Nov. 11; v. 268; p. 331.
- Mine, Submarine. D. Troubtschaninoff. No. 1,302,732; May 6; v. 262; p. 47.
- Mine, Submarine. T. Wrightson and J. M. Ringquist. No. 1,298,141; Mar. 25; v. 260; p. 602.
- Mine-ventilating apparatus. D. F. Lepley. No. 1,297,191; Mar. 11; v. 260; p. 345.
- Mine-water, Treating. E. C. Auld and J. R. Campbell. No. 1,310,382; July 15; v. 264; p. 502.
- Mine-working machine. N. A. Newdick. No. 1,308,639; July 1; v. 264; p. 115.
- Mines, Adjustable clamp for slide-rails in. H. F. Heumann. No. 1,298,946; Apr. 1; v. 261; p. 76.
- Mines, Anchor for submarine. G. E. Elia. No. 1,303,272; May 13; v. 262; p. 179.
- Mines, Depth-setting reel for sounding-balls for submarine-. J. Huber. No. 1,314,658; Sept. 2; v. 266; p. 35.
- Mines, Firing-gear for depth-. J. Huber. No. 1,314,664; Sept. 2; v. 266; p. 36.
- Mines, Firing-gear for depth-. J. Huber. No. 1,314,665; Sept. 2; v. 266; p. 36.
- Mines, Firing-gear for depth-. J. Huber. No. 1,319,282; Oct. 21; v. 267; p. 396.
- Mines, Inertia device for controlling the firing of submarine-. G. E. Elia. No. 1,305,080; May 27; v. 262; p. 591.
- Mines or mine-sweeping ropes or cables, Means for parting the moorings of submarine. F. E. Lander. No. 1,312,405; Aug. 5; v. 265; p. 103.
- Mines, Quarries, or the like, Means for operating switches for tramways in. T. Dixon. No. 1,313,586; Aug. 19; v. 265; p. 378.
- Mines, Safety attachment for submarine. D. Troubtschaninoff; No. 1,292,542; Jan. 28; v. 258; p. 682.
- Mines, Sounding-ball for submarine. J. Huber. No. 1,314,657; Sept. 2; v. 266; p. 35.
- Miner's and blaster's tool. E. Godfrey. No. 1,300,834; Apr. 15; v. 261; p. 546.
- Miner's-check protector. C. H. Lonergan. No. 1,322,912; Nov. 25; v. 268; p. 646.
- Mining and loading machine. R. H. Jeffrey. No. 1,322,113; Nov. 18; v. 268; p. 444.
- Mining and loading machine. N. D. Levin. No. 1,290,591; Jan. 7; v. 258; p. 139.
- Mining and loading machine. N. D. Levin. No. 1,319,156; Oct. 21; v. 267; p. 373.
- Mining and quarrying machine. C. S. Oldroyd. No. 1,321,840; Nov. 18; v. 268; p. 394.
- Mining and tunnel shoveling machine. E. A. Hurtley. No. 1,319,220; Oct. 21; v. 267; p. 385.
- Mining, Angle-gage for use in. F. Rived. No. 1,307,987; June 24; v. 263; p. 608.
- Mining apparatus. W. E. Hamilton. No. 1,303,303; May 13; v. 262; p. 184.
- Mining apparatus. E. C. Morgan. No. 1,304,352; May 20; v. 262; p. 415.
- Mining apparatus, Coal-. D. T. Fisher. No. 1,321,427; Nov. 11; v. 268; p. 266.
- Mining, Apparatus for sulfur-. R. E. Carmichael. No. 1,308,929; July 8; v. 264; p. 197.
- Mining-bit. I. Hubbell. No. 1,312,732; Aug. 12; v. 265; p. 197.



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- Mining-car coupling. N. Mandabach. No. 1,298,238; Mar. 25; v. 260; p. 623.
- Mining. Excavating-machine for. C. H. Funkey. No. 1,319,578; Oct. 21; v. 267; p. 453.
- Mining-machine. J. A. Brantley. No. 1,299,905; Apr. 8; v. 261; p. 321.
- Mining-machine. C. E. Davis. No. 1,321,290; Nov. 11; v. 268; p. 240.
- Mining-machine. M. P. Holmes. No. 1,303,797; May 13; v. 262; p. 274.
- Mining-machine. R. H. Jeffrey. No. 1,313,993; Aug. 26; v. 265; p. 489.
- Mining-machine. N. D. Levin. No. 1,290,595; Jan. 7; v. 258; p. 140.
- Mining-machine. E. C. Morgan. No. 1,314,011; Aug. 26; v. 265; p. 492.
- Mining-machine. E. C. Morgan. No. 1,325,031; Dec. 16; v. 269; p. 447.
- Mining-machine. R. E. Noble. No. 1,317,812; Oct. 27; v. 267; p. 29.
- Mining-machine. C. B. Officer. No. 1,313,869; Aug. 19; v. 265; p. 431.
- Mining-machine. F. E. Van Slyke. No. 1,292,543; Jan. 28; v. 258; p. 683.
- Mining-machine. F. L. O. Wadsworth. No. 1,304,829; May 27; v. 262; p. 545.
- Mining-machine. W. E. Young. No. 1,315,271; Sept. 9; v. 266; p. 156.
- Mining machine. Coal-. N. D. Levin. No. 1,290,593; Jan. 7; v. 258; p. 139.
- Mining-machine drive-gearing. J. A. Brantley. No. 1,297,647; Mar. 18; v. 260; p. 470.
- Mining machine. Manually-operated coal-. E. Jackson. No. 1,309,477; July 8; v. 264; p. 299.
- Mining-machine propelling mechanism. N. D. Levin. No. 1,290,592; Jan. 7; v. 258; p. 139.
- Mining-machine skid. G. Dobson. No. 1,298,304; Mar. 25; v. 260; p. 637.
- Mining machine. Underwater-. F. L. Gilman and W. M. Baum. No. 1,321,302; Nov. 11; v. 268; p. 242.
- Mining-machines. Cutter-arm for. C. A. Pratt. No. 1,322,819; Nov. 25; v. 268; p. 629.
- Mining-machines. Cutter-chain for. E. C. Morgan. No. 1,325,028; Dec. 16; v. 269; p. 446.
- Mining-machines. Cutting-chain for. E. C. Morgan. No. 1,325,029; Dec. 16; v. 269; p. 447.
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- Mining-machines. Disrupting device for. H. A. Kuhn. No. 1,320,872; Nov. 4; v. 268; p. 97.
- Mining-machines. Driving-chain for. C. E. Davis. No. 1,308,843; July 8; v. 264; p. 181.
- Mining. Placer-. J. C. Patterson. No. 1,325,263; Dec. 16; v. 269; p. 491.
- Mining system. A. G. Bauer. No. 1,325,610; Dec. 23; v. 269; p. 572.
- Mineral-oil sulfonic acid and making. R. E. Divine. No. 1,303,779; May 13; v. 262; p. 271.
- Mineral-separating apparatus. A. S. Loventhal and E. C. Nunnell. No. 1,297,372; Mar. 18; v. 260; p. 413.
- Mineral-separator. C. W. Eccleston. No. 1,319,646; Oct. 21; v. 267; p. 466.
- Minerals. apparatus for separating. E. B. Bennett. No. 1,320,526; Nov. 4; v. 268; p. 32.
- Minerals. Effecting the selective flotation of. A. J. Schwarz. No. 1,317,945; Oct. 7; v. 267; p. 54.
- Minerals. Flotation of. C. L. Perkins. No. 1,302,966; May 6; v. 262; p. 93.
- Minerals. Flotation of. C. L. Perkins. No. 1,322,816; Nov. 25; v. 268; p. 629.
- Minerals. Method of and apparatus for separating. H. W. Allen. No. 1,301,532; Apr. 22; v. 261; p. 724.
- Minerals. Selective flotation of. K. Sundberg. No. 1,326,545; Dec. 30; v. 269; p. 784.
- Minimizing inductive interference. Means for. A. W. Copley. No. 1,318,730; Oct. 14; v. 267; p. 265.
- Minnow. Artificial. H. Robinson. No. 1,300,488; Apr. 15; v. 261; p. 473.
- Mirror, flag, and lamp holder. Combined. W. Leuckert. No. 1,308,182; July 1; v. 264; p. 32.
- Mirror, Head-. W. G. E. Flanders. No. 1,298,686; Apr. 1; v. 261; p. 14.
- Mirror, Head hand-. E. H. Roy. No. 1,324,133; Dec. 9; v. 269; p. 215.
- Mirror. Search-light and other. A. M. Barnes. No. 1,304,844; May 27; v. 262; p. 548.
- Mirror-support. M. J. Mohr. No. 1,317,934; Oct. 7; v. 267; p. 52.
- Missile. Resilient. E. J. Monroe. No. 1,292,011; Jan. 21; v. 258; p. 534.
- Miter-box. A. J. Helms. No. 1,290,188; Jan. 7; v. 258; p. 42.
- Miter-box. A. Iltis. No. 1,316,306; Sept. 16; v. 266; p. 359.
- Miter-box. C. W. Spaulding. No. 1,301,519; Apr. 22; v. 261; p. 721.
- Miter, level, square, and angle-finder. Combined. D. J. Crowley, Jr. No. 1,320,320; Oct. 28; v. 267; p. 614.
- Miter-tool. A. J. Helms. No. 1,295,748; Feb. 25; v. 259; p. 733.
- Mitten. E. H. Kreamer. No. 1,310,120; July 15; v. 264; p. 455.
- Mitten. Automobile driving-. A. Chambers. No. 1,302,766; May 6; v. 262; p. 54.
- Mixer: See—
- Air-mixer. Fuel-mixer.
  - Bread-mixer. Gas-mixer.
  - Concrete-mixer. Gas and air mixer.
  - Dental-amalgam mixer. Shaking mixer.
  - Drink-mixer. Water-mixer.
- Mixer. J. J. Cochran. No. 1,305,064; May 27; v. 262; p. 589.
- Mixer. J. H. Denner. No. 1,310,692; July 22; v. 264; p. 591.
- Mixer. C. W. Ervin and W. E. MacGuire. No. 1,312,240; Aug. 5; v. 265; p. 72.
- Mixer. C. L. Reed. No. 1,300,015; Apr. 8; v. 261; p. 344.
- Mixer. P. Stevens. No. 1,293,570; Feb. 4; v. 259; p. 139.
- Mixer. H. E. Trager. No. 1,314,770; Sept. 2; v. 266; p. 55.
- Mixer. R. W. Werth. No. 1,293,274; Feb. 4; v. 259; p. 70.
- Mixer and beater. J. Bouquin. No. 1,295,684; Feb. 25; v. 259; p. 719.
- Mixer and controller. Fuel-economizer. J. C. Callery. No. 1,310,173; July 15; v. 264; p. 468.
- Mixing and conveying apparatus. J. M. Taggart. No. 1,295,814; Feb. 25; v. 259; p. 748.
- Mixing and grinding apparatus. R. D. Maddox. No. 1,301,070; Apr. 15; v. 261; p. 598.
- Mixing apparatus. J. Bogaerts. No. 1,302,294; Apr. 29; v. 261; p. 899.
- Mixing apparatus. W. M. Grosvenor. No. 1,293,087; Feb. 4; v. 259; p. 27.
- Mixing device. R. Scollon. No. 1,296,326; Mar. 4; v. 260; p. 115.
- Mixing-machine. J. C. French. No. 1,314,390; Aug. 26; v. 265; p. 565.
- Mixing-machine. H. Hackstedde. No. 1,290,980; Jan. 14; v. 258; p. 257.
- Mixing-machine. W. N. Stevens. No. 1,292,127; Jan. 21; v. 258; p. 563.
- Mixing-machine. F. H. Webster. No. 1,296,445; Mar. 4; v. 260; p. 141.
- Mixing machine. Clay-. H. R. Straight. No. 1,303,611; May 13; v. 262; p. 240.
- Mixing machine. Popcorn-. E. R. Knott. No. 1,320,766; Nov. 4; v. 268; p. 76.
- Mixing-machines. Control device for. E. H. Lichtenberg. No. 1,321,460; Nov. 11; v. 268; p. 272.
- Mixing-machines. Operating device for. H. J. Hoyt. No. 1,317,298; Sept. 30; v. 266; p. 630.
- Mixing-mill feeding mechanism. W. Jameson. No. 1,302,053; Apr. 29; v. 261; p. 855.
- Mixture-heater. J. S. Losee and F. A. Howard. No. 1,315,730; Sept. 9; v. 266; p. 238.
- Mobile. Baby-. M. R. De Long. No. 1,310,651; July 22; v. 264; p. 583.
- Moccasin. H. L. Davis. No. 1,323,845; Dec. 2; v. 269; p. 117.
- Modulating system. H. M. Stoller. No. 1,317,400; Sept. 30; v. 266; p. 650.
- Moistener. P. A. Varvitsiotis. No. 1,319,023; Oct. 14; v. 267; p. 322.
- Moistener. Sealing-tape. W. C. Powell. No. 1,311,007; July 22; v. 264; p. 649.
- Moistener. Tape-. W. E. Rice. No. 1,319,114; Oct. 21; v. 267; p. 363.
- Moistening machine. Finger-. E. Ode. No. 1,323,645; Dec. 2; v. 269; p. 79.
- Moistening machine. Seal-. J. Berg. No. 1,314,941; Sept. 2; v. 266; p. 85.
- Moisture. Means for supplying. H. C. Kendall. No. 1,311,652; July 29; v. 264; p. 802.
- Mold: See—
- Battery-jar mold. Metal-mold.
  - Brick-mold. Plastic mold.
  - Building-block mold. Plural-part mold.
  - Candy-mold. Post-mold.
  - Capital-mold. Press-mold.
  - Ceramic-products mold. Removable-sided ingot-mold.
  - Collapsible mold. Retreading mold.
  - Column-mold. Sectional mold.
  - Concrete-column mold. Shell-casting mold.
  - Concrete-construction mold. Sound-record mold.
  - Concrete-mold. Stave-mold.
  - Concrete-post mold. Step-mold.
  - Concrete-shingle mold. Tie-mold.
  - Concrete-ship mold. Tire-mold.
  - Concrete-wall mold. Tire-liner mold.
  - Dross-mold. Tire-casing-vulcanizing mold.
  - Dumping butter-mold. Toy mold.
  - Hydraulic mold. Vulcanizing-press mold.
  - Ingot-mold.
- Mold. C. J. Amick. No. 1,308,156; July 1; v. 264; p. 27.
- Mold. L. A. Bellonby. No. 1,309,607; July 15; v. 264; p. 361.
- Mold. J. V. Boland. No. 1,297,315; Mar. 18; v. 260; p. 402.
- Mold. B. B. Braszkowski. No. 1,310,172; July 15; v. 264; p. 464.

- Mold. P. Z. Funk. No. 1,294,254; Feb. 11; v. 259; p. 330.
- Mold. J. F. Harris. No. 1,311,122; July 22; v. 264; p. 670.
- Mold. J. C. Henderson. No. 1,321,306; Nov. 11; v. 268; p. 243.
- Mold. D. J. Levey. No. 1,319,779; Oct. 28; v. 267; p. 514.
- Mold. M. A. Marquette. No. 1,325,898; Dec. 23; v. 269; p. 626.
- Mold. A. B. Norton. No. 1,296,594; Mar. 4; v. 260; p. 174.
- Mold. C. Pack. No. 1,301,965; Apr. 29; v. 261; p. 838.
- Mold. K. A. Palmer and J. C. Irvin. No. 1,307,372; June 24; v. 263; p. 496.
- Mold. H. A. Smith. No. 1,325,050; Dec. 16; v. 269; p. 450.
- Mold. S. E. Young. No. 1,326,246; Dec. 30; v. 269; p. 727.
- Mold and casting. F. A. Parkhurst. No. 1,296,597; Mar. 4; v. 260; p. 175.
- Mold and fluid-bag. Combined. T. Midgley. No. 1,321,229; Nov. 11; v. 268; p. 228.
- Mold and method of casting. F. A. Parkhurst. No. 1,308,103; July 1; v. 264; p. 18.
- Mold-breaking apparatus. R. B. Day. No. 1,299,917; Apr. 8; v. 261; p. 324.
- Mold-drying process. T. P. Anthony. No. 1,325,972; Dec. 23; v. 269; p. 639.
- Mold for casting chains. F. Knadler. No. 1,314,874; Sept. 2; v. 266; p. 74.
- Mold for plastic material. R. E. Reynolds. No. 1,310,632; July 22; v. 264; p. 580.
- Mold for the formation of candied sticks. H. M. Hinck. No. 1,312,325; Aug. 5; v. 265; p. 88.
- Mold for walls and floors. W. S. Murdock. No. 1,319,606; Oct. 21; v. 267; p. 458.
- Mold-form. J. J. Gruenfeld, Jr., and P. Kircher. No. 1,300,381; Apr. 15; v. 261; p. 451.
- Mold-forming apparatus. D. C. Mulvihill. No. 1,325,750; Dec. 23; v. 269; p. 598.
- Mold-heating furnace. J. M. Roth. No. 1,296,122; Mar. 4; v. 260; p. 70.
- Mold-jarring mechanism. E. S. Carnan. No. 1,315,180; Sept. 2; v. 266; p. 129.
- Mold-lifting mechanism. A. O. Dupuy. No. 1,323,356; Dec. 2; v. 269; p. 25.
- Mold-loading device. R. E. McCauley. No. 1,322,318; Nov. 18; v. 268; p. 483.
- Mold. Means for preventing formation of. G. P. Plaisance. No. 1,311,709; July 29; v. 264; p. 812.
- Mold. Means for preventing formation of. G. P. Plaisance. No. 1,318,174; Oct. 7; v. 267; p. 98.
- Mold-opener. J. R. Gammeter. No. 1,309,128; July 8; v. 264; p. 235.
- Mold-press. W. J. Miller. No. 1,326,765; Dec. 30; v. 269; p. 825.
- Molds and making same. Composition of matter for. B. C. Gilligan. No. 1,319,151; Oct. 21; v. 267; p. 372.
- Molds. Apparatus for teeming. E. Gathmann. No. 1,321,300; Nov. 11; v. 268; p. 241.
- Molds for casting. Making. V. Loughheed. No. 1,320,770; Nov. 4; v. 268; p. 77.
- Molds for founding. Making. E. O. Beardsley and W. F. Piper. No. 1,309,835; July 15; v. 264; p. 403.
- Molds for steel castings. Making. E. O. Beardsley and W. F. Piper. No. 1,309,834; July 15; v. 264; p. 403.
- Molds. Making. C. Pack and L. F. Nock. No. 1,308,861; July 8; v. 264; p. 184.
- Molds. Means for holding sectional. W. P. Cunningham. No. 1,295,704; Feb. 25; v. 259; p. 724.
- Molds. Portable machine for making. E. O. Beardsley and W. F. Piper. No. 1,309,836; July 15; v. 264; p. 405.
- Molded articles. Machine for trimming. A. R. Christian. No. 1,301,651; Apr. 22; v. 261; p. 746.
- Molded or shaped material or articles by rolling. Production of. J. Adams. No. 1,297,773; Mar. 18; v. 260; p. 499.
- Molder's flask. R. S. Buch. No. 1,290,071; Jan. 7; v. 258; p. 14.
- Molding. R. N. Sargent. No. 1,313,558; Aug. 19; v. 265; p. 373.
- Molding and swaging device. M. G. Khoury. No. 1,308,758; July 8; v. 264; p. 166.
- Molding apparatus. E. O. Beardsley and W. F. Piper. No. 1,309,835; July 15; v. 264; p. 403.
- Molding apparatus. S. S. Colt. No. 1,293,344; Feb. 4; v. 259; p. 86.
- Molding apparatus. E. L. Howe. No. 1,319,869; Oct. 28; v. 267; p. 531.
- Molding apparatus. L. R. Lemoine. No. 1,299,967; Apr. 8; v. 261; p. 334.
- Molding apparatus. B. A. Nelson. No. 1,291,607; Jan. 14; v. 258; p. 403.
- Molding apparatus. A. A. Pauly. No. 1,320,705; Nov. 4; v. 268; p. 64.
- Molding apparatus. A. A. Pauly. No. 1,320,707; Nov. 4; v. 268; p. 65.
- Molding apparatus. H. Tscherning. No. 1,304,922; May 27; v. 262; p. 561.
- Molding appliance. L. R. Lemoine. No. 1,302,816; May 6; v. 262; p. 63.
- Molding attachment for machines. Drop. B. F. Greene. No. 1,299,327; Apr. 1; v. 261; p. 161.
- Molding-box lifting-bar. J. Kenyon. No. 1,301,850; Apr. 29; v. 261; p. 816.
- Molding. Composite. K. Brown. No. 1,308,330; July 1; v. 264; p. 59.
- Molding composition. J. P. A. McCoy. No. 1,300,218; Apr. 8; v. 261; p. 389.
- Molding device. A. F. Hawkins. No. 1,323,592; Dec. 2; v. 269; p. 69.
- Molding-flask. G. J. Blackham. No. 1,321,803; Nov. 18; v. 268; p. 387.
- Molding-flask. J. M. Germanson. No. 1,326,336; Dec. 30; v. 269; p. 744.
- Molding long plates. L. T. Frederick. No. 1,321,517; Nov. 11; v. 268; p. 282.
- Molding-machine. J. W. Dearsley. No. 1,318,849; Oct. 14; v. 267; p. 288.
- Molding-machine. J. W. Dearsley. No. 1,325,006; Dec. 16; v. 269; p. 442.
- Molding-machine. W. J. Fiegel. No. 1,314,954; Sept. 2; v. 266; p. 88.
- Molding-machine. J. N. Frantz. No. 1,290,161; Jan. 7; v. 258; p. 36.
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- Molding-machine. H. Koch. No. 1,317,710; Oct. 7; v. 267; p. 10.
- Molding-machine. J. Michele. No. 1,291,996; Jan. 21; v. 258; p. 530.
- Molding-machine. E. H. Mumford. No. 1,306,075; June 10; v. 263; p. 189.
- Molding-machine. W. J. Perry. No. 1,320,910; Nov. 4; v. 268; p. 104.
- Molding-machine. E. A. Priddy and W. W. Miller. No. 1,309,336; July 8; v. 264; p. 273.
- Molding-machine. W. P. Robinson. No. 1,293,932; Feb. 11; v. 259; p. 253.
- Molding-machine. W. F. Scott. No. 1,299,240; Apr. 1; v. 261; p. 141.
- Molding-machine. A. D. Ziebarth and A. V. Magnuson. No. 1,316,666; Sept. 23; v. 266; p. 477.
- Molding machine. Confectionery. A. L. Bausman. No. 1,323,949; Dec. 2; v. 269; p. 137.
- Molding-machine counterbalance device. A. Allen. No. 1,299,412; Apr. 8; v. 261; p. 209.
- Molding-machine feeding mechanism. R. D. Eaglesfield. No. 1,295,875; Mar. 4; v. 260; p. 13.
- Molding-machine rammer. G. W. Wendell. No. 1,302,612; May 6; v. 262; p. 24.
- Molding machine. Soap. M. L. Crouch. No. 1,308,753; July 8; v. 264; p. 165.
- Molding-machine. Split-pattern. W. P. Krause. No. 1,316,166; Sept. 16; v. 266; p. 333.
- Molding-machines. Attachment for jolt-ramming. W. C. Norcross. No. 1,316,502; Sept. 16; v. 266; p. 397.
- Molding-machines. Clamping means for. E. W. Whitaker. No. 1,316,259; Sept. 16; v. 266; p. 351.
- Molding powdered substances. Means for. N. Bendixen. No. 1,309,112; July 8; v. 264; p. 232.
- Mole-trap. D. E. Black. No. 1,299,109; Apr. 1; v. 261; p. 113.
- Molten material. Means for severing and distributing. J. E. Potter. No. 1,317,176; Sept. 30; v. 266; p. 607.
- Molybdenum. Extraction of. T. R. Förland. No. 1,305,350; June 3; v. 263; p. 23.
- Molybdenum from its ores and concentrates. Extracting and recovering. H. A. Doerner. No. 1,299,559; Apr. 8; v. 261; p. 242.
- Molybdenum from its ores and concentrates. Extracting and recovering. H. A. Doerner. No. 1,299,560; Apr. 8; v. 261; p. 242.
- Money-box. G. Smith. No. 1,313,922; Aug. 26; v. 265; p. 475.
- Monkey-wrench. L. P. Clark. No. 1,308,840; July 8; v. 264; p. 181.
- Monochromates into bichromates. Transforming alkaline-metal. G. N. Vis. No. 1,326,123; Dec. 23; v. 269; p. 667.
- Monolithic structures. Material for making. B. B. Grunwald. No. 1,318,075; Oct. 7; v. 267; p. 79.
- Monoplane. R. Johnston. No. 1,304,883; May 27; v. 262; p. 554.
- Monoplane with subsidiary planes. C. E. P. Gourdon. No. 1,305,534; June 3; v. 263; p. 57.
- Monument. L. W. De Witt. No. 1,298,182; Mar. 25; v. 260; p. 611.
- Monument. Artificial. S. Le Delt. No. 1,307,366; June 24; v. 263; p. 495.
- Mop. K. V. Gooldy. No. 1,298,037; Mar. 25; v. 260; p. 580.
- Mop. J. Guy. No. 1,325,636; Dec. 23; v. 269; p. 577.
- Mop. L. Haas. No. 1,319,702; Oct. 28; v. 267; p. 499.
- Mop. F. Hodschar. No. 1,310,910; July 22; v. 264; p. 631.
- Mop. C. O. Quimby. No. 1,304,094; May 20; v. 262; p. 366.
- Mop. W. Severns. No. 1,307,215; June 17; v. 263; p. 433.
- Mop. E. H. Tate. No. 1,294,569; Feb. 18; v. 259; p. 438.



## Alphabetical list of inventions—Continued.

- Mop and brush handle, Combined. S. Obolewicz. No. 1,325,165; Dec. 16; v. 269; p. 472.
- Mop, Combination-. M. P. Allen. No. 1,315,900; Sept. 9; v. 266; p. 270.
- Mop, Floor-polishing. A. Traill. No. 1,304,413; May 20; v. 262; p. 427.
- Mop-hanger, Sanitary. G. F. Young. No. 1,292,947; Jan. 28; v. 258; p. 779.
- Mop-holder. C. E. Burke and G. R. Beckwith. No. 1,311,316; July 29; v. 264; p. 739.
- Mop, Sanitary ventilated dish-. W. M. Reid. No. 1,298,788; Apr. 1; v. 261; p. 41.
- Mop, Self-oiling. O. M. Barron. No. 1,302,498; May 6; v. 262; p. 4.
- Mop, Water-supplied dish-. W. M. Reid. No. 1,298,787; Apr. 1; v. 261; p. 40.
- Mop-wringer. C. J. Evans. No. 1,315,824; Sept. 9; v. 266; p. 255.
- Mopping-machine. F. A. Espeland. No. 1,297,816; Mar. 18; v. 260; p. 507.
- Mordanting by means of calcium antimony tartrate. S. M. Hermann. No. 1,307,860; June 24; v. 263; p. 584.
- Mortar. W. H. Livens. No. 1,303,079; May 6; v. 262; p. 114.
- Mortar materials, Promoting plasticity of. W. W. Rhodes. No. 1,318,922; Oct. 14; v. 267; p. 302.
- Mortar-mixing box or tray. W. Rotenberger. No. 1,316,061; Sept. 16; v. 266; p. 313.
- Mortar or cannon and projectile adapted for use therewith. P. C. Van Deuren, A. Delas, and M. Leblanc. No. 1,307,884; June 24; v. 263; p. 498.
- Mortise-cutter, Double-adjustable. H. W. Butler. No. 1,323,828; Dec. 2; v. 269; p. 114.
- Mortise-cutting tool. L. H. Laird. No. 1,297,577; Mar. 18; v. 260; p. 456.
- Mortising-machine. J. W. Evilsizer. No. 1,305,269; June 3; v. 263; p. 8.
- Moth-guard. E. G. Sherman. No. 1,309,820; July 15; v. 264; p. 400.
- Mother-of-pearl tiling, Making. A. and C. Vuillermet. No. 1,302,252; Apr. 29; v. 261; p. 892.
- Motion, Apparatus for reproducing rotary. B. S. McCutchen and H. E. Williams. No. 1,322,319; Nov. 18; v. 268; p. 483.
- Motion-controlling device. H. L. Pitman. No. 1,318,916; Oct. 14; v. 267; p. 301.
- Motion from one movable member to another, Apparatus for transmitting. H. C. Ford. No. 1,317,914; Oct. 7; v. 267; p. 48.
- Motion, Means for converting rotary into reciprocating. W. B. Baldwin and J. Curtin. No. 1,307,474; June 24; v. 263; p. 515.
- Motion to gyroscopic bodies, Device for transmitting. H. F. Hébrard. No. 1,311,509; July 29; v. 264; p. 776.
- Motion-transmitting apparatus. J. C. Hornung. No. 1,312,692; Aug. 12; v. 265; p. 189.
- Motion-transmitting-controlling means. W. C. Lipe and J. W. Coughtry. No. 1,310,561; July 22; v. 264; p. 566.
- Motions, Mechanism or mechanical motion for imparting alternate slow or quick. P. Brown and F. J. Bostock. No. 1,316,826; Sept. 23; v. 266; p. 506.
- Motive-power engine. C. D. Douglas. No. 1,303,781; May 13; v. 262; p. 271.
- Motor: See—
- |                            |                         |
|----------------------------|-------------------------|
| Air-motor.                 | Mechanical motor.       |
| Alternating-current motor. | Outboard-motor.         |
| Aviation-motor.            | Phonograph-motor.       |
| Car-door motor.            | Pneumatic motor.        |
| Current-motor.             | Polyphase motor.        |
| Cycle explosion-motor.     | Pump and motor.         |
| Damper-operating motor.    | Rotary motor.           |
| Double-acting motor.       | Servo-motor.            |
| Electric motor.            | Spring-motor.           |
| Electromechanical motor.   | Surf-motor.             |
| Expansion-motor.           | Surf or wave motor.     |
| Explosion-motor.           | Tide-motor.             |
| Explosive-motor.           | Toy electric motor.     |
| Fluid-motor.               | Toy water-motor.        |
| Gasolene-motor.            | Variable-speed motor.   |
| Gramophone-motor.          | Vehicle-motor.          |
| Heat-motor.                | Water-motor.            |
| Heat-regulator motor.      | Wave-motor.             |
| Hydraulic motor.           | Wave and current motor. |
| Hydrocarbon-motor.         | Weight-motor.           |
| Induction-motor.           | Wind-motor.             |
| Internal-combustion motor. | Wind and water motor.   |
| Liquid-motor.              |                         |
- Motor. C. H. Dillon. No. 1,312,523; Aug. 12; v. 265; p. 156.
- Motor. P. Farb. No. 1,302,342; Apr. 29; v. 261; p. 909.
- Motor. E. R. Hewitt and A. H. Leipert. No. 1,326,661; Dec. 30; v. 269; p. 805.
- Motor. J. Naylor. No. 1,323,542; Dec. 2; v. 269; p. 60.
- Motor. J. A. Simms. No. 1,297,263; Mar. 11; v. 260; p. 360.
- Motor. C. F. Uecke. No. 1,311,193; July 29; v. 264; p. 716.
- Motor. D. S. Waugh. No. 1,314,288; Aug. 26; v. 265; p. 545.
- Motor. J. B. Wilson. No. 1,322,856; Nov. 25; v. 268; p. 636.
- Motor and governing mechanism therefor, Electric. H. K. Sandell. No. 1,308,449; July 1; v. 264; p. 80.
- Motor and other cycles, Vehicle attachment for. O. L. Heintz. No. 1,311,816; July 29; v. 264; p. 832.
- Motor and pump, Combined. G. Bey. No. 1,296,356; Mar. 4; v. 260; p. 122.
- Motor and valve therefor, Internal-combustion. F. G. Freese. No. 1,299,320; Apr. 1; v. 261; p. 160.
- Motor assembling and testing stand. W. G. Harper. No. 1,322,787; Nov. 25; v. 268; p. 623.
- Motor-block stand. J. S. Carswell and A. R. Hammond. No. 1,326,147; Dec. 23; v. 269; p. 671.
- Motor-cars, Tractor attachment for. K. F. Crawford. No. 1,303,856; May 20; v. 262; p. 323.
- Motor control. J. Eaton. No. 1,297,121; Mar. 11; v. 260; p. 330.
- Motor control. J. Eaton. No. 1,321,019; Nov. 4; v. 268; p. 125.
- Motor control. L. Larsen. No. 1,309,640; July 15; v. 264; p. 367.
- Motor control. N. L. Mortensen. No. 1,309,366; July 8; v. 264; p. 279.
- Motor control. C. C. Runner. No. 1,320,927; Nov. 4; v. 268; p. 107.
- Motor-control apparatus. W. C. Carr. No. 1,322,536; Nov. 25; v. 268; p. 576.
- Motor control, Electric-. E. Carichoff. No. 1,311,754; July 29; v. 264; p. 821.
- Motor control, Spring-. N. Pedersen. No. 1,301,873; Apr. 29; v. 261; p. 821.
- Motor-control system. H. L. Beach. No. 1,300,238; Apr. 15; v. 261; p. 420.
- Motor-control system. H. R. Canfield. No. 1,306,212; June 10; v. 263; p. 215.
- Motor-control system. H. R. Canfield. No. 1,308,927; July 8; v. 264; p. 197.
- Motor-control system. E. P. Deutsch. No. 1,308,229; July 1; v. 264; p. 41.
- Motor-control system. J. Eaton. No. 1,297,120; Mar. 11; v. 260; p. 330.
- Motor-control system. J. Eaton. No. 1,299,924; Apr. 8; v. 261; p. 325.
- Motor-control system. G. W. Huey. No. 1,308,589; July 1; v. 264; p. 106.
- Motor-control system. B. W. Jones. No. 1,315,774; Sept. 9; v. 266; p. 245.
- Motor-control system. N. D. Levin. No. 1,290,594; Jan. 7; v. 258; p. 140.
- Motor-control system. R. H. McLain and J. Eaton. No. 1,306,548; June 10; v. 263; p. 279.
- Motor-control system. G. E. Stack. No. 1,326,004; Dec. 23; v. 269; p. 645.
- Motor-control system, Electric-. L. H. Thullen. No. 1,323,929; Dec. 2; v. 269; p. 133.
- Motor control, System of. J. F. Tritle. No. 1,310,040; July 15; v. 264; p. 440.
- Motor-controller. T. E. Barnum. No. 1,301,088; Apr. 22; v. 261; p. 637.
- Motor-controller. T. E. Barnum. No. 1,322,995; Nov. 25; v. 268; p. 662.
- Motor-controller. E. I. Deutsch. No. 1,309,797; July 15; v. 264; p. 396.
- Motor-controller. M. M. Goldenstein. No. 1,307,858; June 24; v. 263; p. 584.
- Motor-controller. C. T. Henderson. No. 1,306,897; June 17; v. 263; p. 376.
- Motor-controller. C. T. Henderson. No. 1,313,688; Aug. 19; v. 265; p. 396.
- Motor-controller. H. J. Harries. No. 1,324,194; Dec. 9; v. 269; p. 227.
- Motor-controller. A. J. Horton. No. 1,303,319; May 13; v. 262; p. 187.
- Motor-controller. R. B. Hunter. No. 1,306,484; June 10; v. 263; p. 267.
- Motor-controller. W. F. Lent. No. 1,311,567; July 29; v. 264; p. 786.
- Motor-controller. N. L. Mortensen. No. 1,320,564; Nov. 4; v. 268; p. 39.
- Motor-controller. A. Simon. No. 1,299,248; Apr. 1; v. 261; p. 144.
- Motor-controller. A. Simon. No. 1,307,836; June 24; v. 263; p. 580.
- Motor-controller. W. C. Stevens and N. L. Mortensen. No. 1,318,620; Oct. 14; v. 267; p. 244.
- Motor-controlling device. C. M. Manly. No. 1,318,399; Oct. 14; v. 267; p. 202.
- Motor-cooling system. C. B. Kirkham. No. 1,294,474; Feb. 18; v. 259; p. 417.
- Motor-cushioning device. S. Fox. No. 1,325,937; Dec. 23; v. 269; p. 633.
- Motor-cycle and aeroplane, Combined. C. D. Hunter. No. 1,307,097; June 17; v. 263; p. 413.
- Motor-cycle seat. A. Stowasser. No. 1,304,821; May 27; v. 262; p. 543.
- Motor-cycle stand. W. L. Craig. No. 1,304,457; May 20; v. 262; p. 436.
- Motor device. F. P. Mansbendel. No. 1,321,533; Nov. 11; v. 268; p. 285.
- Motor-driven-machine controller. C. W. Parkhurst and F. J. Burd. No. 1,301,966; Apr. 29; v. 261; p. 839.
- Motor-frame. D. H. Friend. No. 1,318,744; Oct. 14; v. 267; p. 268.

- Motor-generator sets, Speed-regulating system for. W. B. Potter. No. 1,315,793; Sept. 9; v. 266; p. 249.
- Motor-generator systems, Regulator for. J. A. Beirns. No. 1,297,989; Mar. 25; v. 260; p. 570.
- Motor-heater and like device. W. B. Powell. No. 1,304,365; May 20; v. 262; p. 418.
- Motor, Hydrocarbon-. W. E. Foltz. No. 1,308,489; July 1; v. 264; p. 88.
- Motor, Hydrocarbon-. D. M. White. No. 1,308,465; July 1; v. 264; p. 83.
- Motor-indicating mechanism. S. Jencick. No. 1,298,049; Mar. 25; v. 260; p. 582.
- Motor-lock. F. A. Miller. No. 1,316,587; Sept. 23; v. 266; p. 461.
- Motor-meter and radiator-cap lock. W. A. Flower and L. H. Weilheimer. No. 1,306,143; June 10; v. 263; p. 202.
- Motor-shield. L. C. Schulz. No. 1,297,258; Mar. 11; v. 260; p. 359.
- Motor-stand. F. B. Goodale. No. 1,296,074; Mar. 4; v. 260; p. 59.
- Motor-stand. T. K. Nelson. No. 1,291,087; Jan. 14; v. 258; p. 283.
- Motor-starter. I. J. Maha. No. 1,290,620; Jan. 7; v. 258; p. 146.
- Motor-starter. G. Mascarini and A. Contardi. No. 1,302,400; Apr. 29; v. 261; p. 920.
- Motor-starter. H. L. Van Valkenburg. No. 1,319,191; Oct. 21; v. 267; p. 379.
- Motor-starter or electric-current controller. H. L. Bradley. No. 1,317,773; Oct. 7; v. 267; p. 21.
- Motor-starting and safety device. G. L. Griffith. No. 1,290,737; Jan. 7; v. 258; p. 175.
- Motor-starting device. C. J. Anderson. No. 1,318,345; Oct. 14; v. 267; p. 191.
- Motor-starting mechanism. M. R. Hutchinson. No. 1,306,183; June 10; v. 263; p. 209.
- Motor structure. A. L. Broomall and E. G. Tidlund. No. 1,314,500; Sept. 2; v. 266; p. 4.
- Motor-supporting means. J. W. Nelson. No. 1,310,956; July 22; v. 264; p. 639.
- Motor-switch, Automatic. W. F. Pfister. No. 1,306,076; June 10; v. 263; p. 189.
- Motor treadmill apparatus. R. W. Rose. No. 1,294,539; Feb. 18; v. 259; p. 431.
- Motor-truck seat. K. S. Baxter. No. 1,311,146; July 22; v. 264; p. 674.
- Motor-trucks, Highway-maintenance attachment for. G. A. Goss. No. 1,304,557; May 27; v. 262; p. 494.
- Motor-vehicle-construction unit. H. M. Tompkins. No. 1,304,121; May 20; v. 262; p. 371.
- Motor-vehicle frame. M. V. Liddell. No. 1,303,339; May 13; v. 262; p. 190.
- Motor-vehicle heater. E. B. Barrett. No. 1,306,876; June 17; v. 263; p. 372.
- Motor-vehicle jack. L. E. Harding. No. 1,307,859; June 24; v. 263; p. 584.
- Motor-vehicle lock. F. Dencheff. No. 1,323,166; Nov. 25; v. 268; p. 695.
- Motor-vehicle signal. W. L. Ingram. No. 1,321,374; Nov. 11; v. 268; p. 255.
- Motor-vehicles, Front-radius-rod brace for. C. W. Murphy and W. J. Brittain. No. 1,302,698; May 6; v. 262; p. 41.
- Motor-vehicles, Steering device for. V. Loughheed. No. 1,303,928; May 20; v. 262; p. 336.
- Motor-vehicles, Supplemental holding device for. W. Pfeeger. No. 1,303,110; May 6; v. 262; p. 120.
- Motor-wheel. J. F. Merkel. No. 1,297,218; Mar. 11; v. 260; p. 350.
- Motor-wheel. J. Stolpe. No. 1,301,881; Apr. 29; v. 261; p. 822.
- Motors, Air-cooled, cylinder and piston construction for high-heat explosion-. W. F. Schmoele. No. 1,315,686; Sept. 9; v. 266; p. 229.
- Motors, Air-cooling system for internal-combustion. H. W. Turner. No. 1,296,443; Mar. 4; v. 260; p. 140.
- Motors, Air-heater for aeronautical. C. B. Kirkham. No. 1,326,405; Dec. 30; v. 269; p. 787.
- Motors, Air-supply for internal-combustion. A. Winton. No. 1,296,030; Mar. 4; v. 260; p. 49.
- Motors, Air-supplying means for. C. F. Roper. No. 1,318,596; Oct. 14; v. 267; p. 240.
- Motors, Automatic feed for internal-combustion. F. E. Holmes. No. 1,315,125; Sept. 2; v. 266; p. 119.
- Motors, Automatic stop for phonograph-. J. T. Sibley. No. 1,325,119; Dec. 16; v. 269; p. 464.
- Motors, Automatic switch for air-compressor. W. J. Stark. No. 1,293,968; Feb. 11; v. 259; p. 262.
- Motors, Automatic switching arrangement for electric. C. A. M. Weber. No. 1,316,009; Sept. 16; v. 266; p. 304.
- Motors, Automatic throttle for high-compression. H. Mercier. No. 1,312,040; Aug. 5; v. 265; p. 35.
- Motors, Auxiliary air-inlet device for internal-combustion. P. R. Campion. No. 1,301,649; Apr. 22; v. 261; p. 745.
- Motors, Auxiliary valved-head attachment for internal-combustion. J. D. Langdon. No. 1,316,454; Sept. 16; v. 266; p. 387.
- Motors, Control apparatus for induction-. E. Lehr. No. 1,303,337; May 13; v. 262; p. 190.
- Motors, Controlling means for electric. F. G. Peck. No. 1,293,532; Feb. 4; v. 259; p. 130.
- Motors, Cooling-fan for. H. J. Ernster. No. 1,317,080; Sept. 23; v. 266; p. 553.
- Motors, Driving arrangement of electric. G. Jones. No. 1,313,537; Aug. 19; v. 265; p. 369.
- Motors, Driving mechanism for. A. W. Chase. No. 1,324,384; Dec. 9; v. 269; p. 264.
- Motors, Electric control of fluid-pressure-actuated. H. Rowntree. No. 1,300,781; Apr. 15; v. 261; p. 535.
- Motors, Feeding apparatus for internal-combustion. R. J. C. Tampier. No. 1,296,229; Mar. 4; v. 260; p. 94.
- Motors, Forming and utilizing charges in combustion-. J. A. Secor. No. 1,320,500; Nov. 4; v. 268; p. 27.
- Motors, Fuel and air mixing apparatus for internal-combustion. A. Winton. No. 1,316,754; Sept. 23; v. 266; p. 493.
- Motors, Governor for internal-combustion. A. J. Donovan and F. Pokorny, Jr. No. 1,290,122; Jan. 7; v. 258; p. 26.
- Motors, Igniting device for explosion-. M. A. Violet. No. 1,326,810; Dec. 30; v. 269; p. 834.
- Motors, Indicator mechanism for spring-. A. V. Gullborg. No. 1,302,539; May 6; v. 262; p. 11.
- Motors, &c., Lifting-tongs for. W. F. Bonnard and S. E. Kleinkauf. No. 1,316,824; Sept. 23; v. 266; p. 505.
- Motors, Manually-operable controlling device for electric. C. Redfield. No. 1,296,698; Mar. 11; v. 260; p. 234.
- Motors, Means for controlling the circuits of electric. L. F. Hutt. No. 1,306,544; June 10; v. 263; p. 278.
- Motors, Method and means for controlling induction-. H. M. Hobart. No. 1,315,771; Sept. 9; v. 266; p. 245.
- Motors, Method of and apparatus for controlling electric. A. C. Keller. No. 1,293,112; Feb. 4; v. 259; p. 33.
- Motors, Moisture-shield for. G. N. Shepardson. No. 1,322,635; Nov. 25; v. 268; p. 595.
- Motors, Motor-cycle-frame structure for V-type. W. S. Harley. No. 1,293,643; Feb. 4; v. 259; p. 155.
- Motors, Mounting propeller-shafts at front of. M. J. B. Barbaron. No. 1,315,654; Sept. 9; v. 266; p. 224.
- Motors, Oiling system for internal-combustion. D. B. Medanich. No. 1,299,757; Apr. 8; v. 261; p. 288.
- Motors, Pitman for rotary radial. P. Clerget. No. 1,305,194; May 27; v. 262; p. 614.
- Motors, pneumatic drills, air-tools, &c., Piston-rod and toggles for. L. Sykes. No. 1,318,705; Oct. 14; v. 267; p. 260.
- Motors, Priming device for explosion-. W. C. A. Sieverts. No. 1,323,651; Dec. 2; v. 269; p. 80.
- Motors, Regenerative braking system for series. W. V. Turner and T. H. Thomas. No. 1,322,845; Nov. 25; v. 268; p. 634.
- Motors, Sparking-plug for explosion-. E. S. Berlioz. No. 1,318,529; Oct. 14; v. 267; p. 227.
- Motors, Speed control for induction-. B. G. Lamme. No. 1,295,906; Mar. 4; v. 260; p. 19.
- Motors, Speed control of induction-. E. F. W. Alexander-son and D. C. Prince. No. 1,301,632; Apr. 22; v. 261; p. 742.
- Motors, Speed-control system for induction-. W. Sykes. No. 1,296,136; Mar. 4; v. 260; p. 74.
- Motors, Starting device for electric. O. S. Jennings. No. 1,315,965; Sept. 16; v. 266; p. 296.
- Motors, Starting direct-current. H. W. Chadbourne and A. F. Knight. No. 1,297,096; Mar. 11; v. 260; p. 325.
- Motors, Switch and brush mounting for electric. L. and L. Strohecker. No. 1,293,973; Feb. 11; v. 259; p. 263.
- Motors, Switch for controlling electric. J. Etchells and C. H. Stedman. No. 1,318,737; Oct. 14; v. 267; p. 267.
- Motors, System of automatic control for. W. S. H. Hamilton. No. 1,295,487; Feb. 25; v. 259; p. 672.
- Motors, System of control for electric. B. W. Jones. No. 1,306,545; June 10; v. 263; p. 278.
- Motors, System of carburation for hydrocarbon-. P. Gerli and O. A. Ross. No. 1,323,264; Dec. 2; v. 269; p. 8.
- Motors, System of speed control for induction-. A. M. Dudley. No. 1,296,487; Mar. 4; v. 260; p. 149.
- Motors, Testing device for the ignition systems of internal-combustion. H. C. Minns. No. 1,297,715; Mar. 18; v. 260; p. 486.
- Motors, Throttle-valve governor for. A. E. Berdon. No. 1,325,615; Dec. 23; v. 269; p. 573.
- Motors, Valve structure for internal-combustion. A. Winton. No. 1,321,580; Nov. 11; v. 268; p. 294.
- Motors with movable attachments, Combined wagon and hearse body for. O. J. Mitchell. No. 1,312,561; Aug. 12; v. 265; p. 163.
- Motorcycle. W. J. Canfield. No. 1,321,978; Nov. 18; v. 268; p. 420.
- Motorcycle. P. A. Fisker. No. 1,324,242; Dec. 9; v. 269; p. 236.
- Motorcycle. A. D. McCurdy. No. 1,316,455; Sept. 16; v. 266; p. 388.
- Motorcycle-clutch. J. F. Haussmann. No. 1,317,290; Sept. 30; v. 266; p. 629.
- Motorcycles and the like, Support for. A. C. Stark. No. 1,315,048; Sept. 2; v. 266; p. 105.
- Motorcycles, Change-speed transmission-hub for. G. L. Dudley. No. 1,323,031; Nov. 25; v. 268; p. 669.
- Motorcycles, Control device for. R. E. Bates. No. 1,323,814; Dec. 2; v. 269; p. 111.
- Motorcycles, Differential gear for. W. A. Griffing. No. 1,322,689; Nov. 25; v. 268; p. 605.



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- Motorcycles, Rear-seat attachment for. J. P. McEnroe. No. 1,317,378; Sept. 30; v. 266; p. 646.
- Motorcycles, Spring-fork for. G. E. Rigby. No. 1,322,619; Nov. 25; v. 268; p. 592.
- Mount and mounting lacing-hooks. W. E. Elliott. No. 1,291,810; Jan. 21; v. 258; p. 482.
- Mounting. W. C. Brinton. No. 1,301,902; Apr. 29; v. 261; p. 826.
- Mounting and packaging small articles. W. E. Elliott. No. 1,295,141; Feb. 25; v. 259; p. 593.
- Mounting naps, caps, and the like upon hollow elements. A. J. Schultz. No. 1,290,670; Jan. 7; v. 258; p. 159.
- Mouse-trap. A. Lokaj. No. 1,323,399; Dec. 2; v. 269; p. 33.
- Mouse-trap. N. B. Miller. No. 1,314,200; Aug. 26; v. 265; p. 528.
- Mouse-trap. S. Sulenski. No. 1,292,916; Jan. 28; v. 258; p. 771.
- Mouse-trap, Sucker-rod. M. Shinskie. No. 1,317,229; Sept. 30; v. 266; p. 617.
- Mouth-gag and tongue-depressor, Combined. E. L. Roberts. No. 1,319,904; Oct. 28; v. 267; p. 537.
- Mouth-guard for children and infants. E. S. Harilee. No. 1,297,842; Mar. 18; v. 260; p. 513.
- Mouth-organs, Reed and reed-plate construction for. E. Lamprecht. No. 1,319,960; Oct. 28; v. 267; p. 547.
- Mouth-protector. T. W. Brown. No. 1,302,004; Apr. 29; v. 261; p. 846.
- Mower. S. L. Cluett. No. 1,323,388; Dec. 2; v. 269; p. 31.
- Mower. F. M. Landon. No. 1,308,909; July 8; v. 264; p. 193.
- Mower. C. Wagner and A. Hormel. No. 1,291,295; Jan. 14; v. 258; p. 329.
- Mower. D. D. Williams. No. 1,300,907; Apr. 15; v. 261; p. 562.
- Mower cutter-bar. C. B. Hollomon. No. 1,310,339; July 15; v. 264; p. 494.
- Mower, Gang. W. F. H. Braun. No. 1,299,906; Apr. 8; v. 261; p. 321.
- Mower, Gang lawn. W. P. M. Braun. No. 1,294,387; Feb. 18; v. 259; p. 395.
- Mower, Gang lawn. H. G. Kimball. No. 1,320,151; Oct. 28; v. 267; p. 583.
- Mower, Lawn. W. W. Brisben. No. 1,293,321; Feb. 4; v. 259; p. 82.
- Mower, Lawn. M. H. Reed. No. 1,304,372; May 20; v. 262; p. 419.
- Mower, Lawn. E. M. Sawtelle. No. 1,320,098; Oct. 28; v. 267; p. 573.
- Mower, Lawn. L. C. Weber. No. 1,296,577; Mar. 4; v. 260; p. 170.
- Mower, Lawn. C. C. Worthington. No. 1,313,972; Aug. 26; v. 265; p. 485.
- Mower, structure, Lawn. W. P. M. Braun. No. 1,295,108; Feb. 25; v. 259; p. 586.
- Mowers, Attachment for lawn. W. H. Mitchell. No. 1,315,384; Sept. 9; v. 266; p. 177.
- Mowers, Bearing for lawn. J. M. Lontz. No. 1,298,980; Apr. 1; v. 261; p. 85.
- Mowers, Guard-finger for. F. Crawford. No. 1,306,686; June 17; v. 263; p. 338.
- Mowers, Pitman connection for. J. Sturrock. No. 1,314,717; Sept. 2; v. 266; p. 46.
- Mowers, reapers, &c., Cutting mechanism for. S. E. Livengood. No. 1,314,527; Sept. 2; v. 266; p. 10.
- Mowers, Steering device for lawn. F. B. Arnold. No. 1,323,386; Dec. 2; v. 269; p. 31.
- Mowing device, Railway right-of-way. W. H. McAllister. No. 1,311,825; July 29; v. 264; p. 834.
- Mowing-machine. E. W. Burgess. No. 1,291,393; Jan. 14; v. 258; p. 353.
- Mowing-machine. E. E. Ellis. No. 1,326,256; Dec. 30; v. 269; p. 730.
- Mowing-machine. A. Griéves. No. 1,310,616; July 22; v. 264; p. 577.
- Mowing-machine. W. F. Koch. No. 1,321,058; Nov. 4; v. 268; p. 132.
- Mowing-machine. W. H. McClure. No. 1,294,133; Feb. 11; v. 259; p. 301.
- Mowing-machine. H. H. Montague. No. 1,317,212; Sept. 30; v. 266; p. 614.
- Mowing-machine. C. Pearson. No. 1,314,605; Sept. 2; v. 266; p. 24.
- Mowing-machine. I. Trolley. No. 1,318,418; Oct. 14; v. 267; p. 206.
- Mowing-machine. F. D. Wilson. No. 1,313,443; Aug. 19; v. 265; p. 351.
- Mowing-machine attachment. L. B. Horner. No. 1,309,522; July 8; v. 264; p. 308.
- Mowing-machine attachment. J. N. Wilbur. No. 1,295,659; Feb. 25; v. 259; p. 713.
- Mowing-machine cutter. W. J. Vanstory. No. 1,322,977; Nov. 25; v. 268; p. 859.
- Mowing-machines, Cutting apparatus for. E. W. Burgess. No. 1,308,162; July 1; v. 264; p. 29.
- Mowing-machines, Dual-power transmission for cycle-bars of. H. C. Snyder, Jr. No. 1,313,961; Aug. 26; v. 265; p. 482.
- Mowing-machines, Forming knife-heads for. C. Pearson. No. 1,319,485; Oct. 21; v. 267; p. 435.
- Mowing-machine, Power. W. H. McClure. No. 1,295,338; Feb. 25; v. 259; p. 638.
- Mowing-machines, Sicklebar for. F. Caba. No. 1,323,011; Nov. 25; v. 268; p. 665.
- Mucilage-jar. L. S. Kositchek. No. 1,309,948; July 15; v. 264; p. 425.
- Mud-chain. G. F. Kaupp. No. 1,315,131; Sept. 2; v. 266; p. 120.
- Mud-guard and sled-runner, Combined. G. Stevenor, Jr. No. 1,291,229; Jan. 14; v. 258; p. 315.
- Mud-lug. B. M. Mathias. No. 1,314,087; Aug. 26; v. 265; p. 506.
- Muff. J. F. Wright. No. 1,300,088; Apr. 8; v. 261; p. 361.
- Muffle-charger. E. D. Hallock. No. 1,308,013; June 24; v. 263; p. 613.
- Muffle-furnace. T. W. S. Hutchins. No. 1,325,674; Dec. 23; v. 269; p. 584.
- Muffle-furnace. C. T. Torsell. No. 1,295,637; Feb. 25; v. 259; p. 707.
- Muffle-furnace. W. G. Zetsche. No. 1,322,214; Nov. 18; v. 268; p. 464.
- Muffler. L. H. Brinkman. No. 1,302,800; Apr. 29; v. 261; p. 900.
- Muffler. J. M. Brown. No. 1,317,858; Oct. 7; v. 267; p. 38.
- Muffler. B. Carlen. No. 1,323,675; Dec. 2; v. 269; p. 84.
- Muffler. C. T. Haller. No. 1,309,132; July 8; v. 264; p. 236.
- Muffler. J. J. Redeker and H. L. Thompson. No. 1,304,693; May 20; v. 262; p. 366.
- Muffler. T. T. Tvedt. No. 1,291,271; Jan. 14; v. 258; p. 324.
- Muffler, Airplane-engine. F. J. Hauman. No. 1,318,996; Oct. 14; v. 267; p. 316.
- Muffler cut-out. G. F. Long. No. 1,320,627; Nov. 4; v. 268; p. 50.
- Muffler, Exhaust. S. P. Faber. No. 1,292,283; Jan. 21; v. 258; p. 599.
- Muffler, Exhaust. R. J. MacKenzie. No. 1,318,890; Oct. 14; v. 267; p. 296.
- Muffler, Internal-combustion-engine. S. I. Fekete. No. 1,305,347; June 3; v. 263; p. 22.
- Multicolor offset-press. D. J. Scott. No. 1,313,123; Aug. 12; v. 265; p. 274.
- Multicylinder engine. P. Felix. No. 1,311,060; July 22; v. 264; p. 659.
- Multiform chair. C. E. Barnes. No. 1,294,378; Feb. 18; v. 259; p. 393.
- Multiple-cartoning machine. E. D. Anderson. No. 1,313,975; Aug. 26; v. 265; p. 485.
- Multiple-drilling machine. G. T. Trunddle, Jr. No. 1,306,037; June 10; v. 263; p. 182.
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- Multiple rectifier. O. M. Leich. No. 1,324,743; Dec. 9; v. 269; p. 332.
- Multiple reproducing-machine. G. Roessler. No. 1,302,594; May 6; v. 262; p. 21.
- Multiple switch. H. W. Crane. No. 1,322,545; Nov. 25; v. 268; p. 578.
- Multiple switch. C. H. Keeney. No. 1,295,040; Feb. 18; v. 259; p. 546.
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- Music-chart. M. B. and W. E. Claycomb and J. A. Weimer. No. 1,293,715; Feb. 11; v. 259; p. 202.
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- Music-instruction device. P. M. Barker. No. 1,313,449; Aug. 19; v. 265; p. 352.
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- Music-leaf turner. H. E. Fromberg. No. 1,302,355; Apr. 29; v. 261; p. 911.
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- Music-leaf turner. T. T. Jakobson. No. 1,311,123; July 22; v. 264; p. 670.
- Music-leaf turner. S. E. Mayabb. No. 1,290,770; Jan. 7; v. 258; p. 182.
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- Music-leaf turner. E. T. Spitler. No. 1,320,506; Nov. 4; v. 268; p. 28.
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- Music-leaf turner and rack. W. W. Hanks. No. 1,296,385; Mar. 4; v. 260; p. 129.
- Music-lyres, Retaining-clip for. G. L. Palmer. No. 1,321,941; Nov. 18; v. 268; p. 413.
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- Music-sheets, Tracking device for. L. H. Thompson. No. 1,324,941; Dec. 16; v. 269; p. 431.
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- Music-turner and loose-leaf book. H. La Beau. No. 1,324,831; Dec. 16; v. 269; p. 410.
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- Musical bell. W. I. Kirk. No. 1,291,550; Jan. 14; v. 258; p. 389.
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- Musical instrument. W. I. Kirk. No. 1,301,062; Apr. 15; v. 261; p. 596.
- Musical instrument. A. T. Newman. No. 1,297,585; Mar. 18; v. 260; p. 458.
- Musical instrument. W. L. Pollard. No. 1,308,110; July 1; v. 264; p. 19.
- Musical instrument. G. M. Russell. No. 1,310,035; July 15; v. 264; p. 439.
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- Musical instrument, Automatic. J. B. McEwen. No. 1,325,482; Dec. 16; v. 269; p. 530.
- Musical instrument, Automatic. C. F. Stoddard. No. 1,292,131; Jan. 21; v. 258; p. 564.
- Musical instrument, Automatic. A. Swensen. No. 1,321,860; Nov. 18; v. 268; p. 398.
- Musical instrument, Automatic. H. B. Tremaine. No. 1,300,519; Apr. 15; v. 261; p. 480.
- Musical instrument, Double-tracker. L. S. Lockwood. No. 1,314,068; Aug. 26; v. 265; p. 502.
- Musical instrument, Double-tracker. F. L. McCormick. No. 1,312,917; Aug. 12; v. 265; p. 233.
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- Musical instrument, Electrically-operated. A. H. Maitre and V. H. G. Martin. No. 1,295,548; Feb. 25; v. 259; p. 688.
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- Musical instrument, Self-playing. L. B. Doman. No. 1,326,581; Dec. 30; v. 269; p. 791.
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- Musical instrument, Stringed. F. X. Audet. No. 1,320,523; Nov. 4; v. 268; p. 31.
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- Musical-instrument support. W. I. Kirk. No. 1,301,060; Apr. 15; v. 261; p. 596.
- Musical instruments, Coupler for electrical. F. B. Little. No. 1,291,568; Jan. 14; v. 258; p. 393.
- Musical instruments, Expression-controlling device for mechanical. O. M. Kennedy. No. 1,302,172; Apr. 29; v. 261; p. 877.
- Musical instruments, Instructing-indicator for. E. M. Schantz. No. 1,324,275; Dec. 9; v. 269; p. 242.
- Musical instruments, Instructing-indicator for. E. M. Schantz. No. 1,324,276; Dec. 9; v. 269; p. 243.
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- Musical instruments, Pneumatic action for automatic. H. E. Gamble. No. 1,291,670; Jan. 14; v. 258; p. 419.
- Musical instruments, Pneumatic action for automatic. S. A. Swanson. No. 1,314,163; Aug. 26; v. 265; p. 520.
- Musical instruments, Prime controller for automatic or partly-automatic. C. F. Stoddard. No. 1,294,844; Feb. 18; v. 259; p. 502.
- Musical instruments, Roll-shifting mechanism for. L. W. Southgate. No. 1,307,424; June 24; v. 263; p. 505.
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- Musical instruments, Tracking device for automatic. A. P. Gustafson. No. 1,313,226; Aug. 12; v. 265; p. 294.
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- Musical instruments, Unit-action for pneumatic. G. P. Brand. No. 1,308,159; July 1; v. 264; p. 28.
- Musical instruments, Wind-inducing device for self-playing. L. B. Doman. No. 1,293,729; Feb. 11; v. 259; p. 206.
- Musical instruments, Winding and rewinding mechanism for double-tracker-board. R. S. Irvine. No. 1,294,666; Feb. 18; v. 259; p. 461.
- Musical notation. S. A. Reeve. No. 1,313,015; Aug. 12; v. 265; p. 253.
- Musical setting or score. J. Quintile and C. B. Metcalfe. No. 1,307,147; June 17; v. 263; p. 422.
- Muzzle. G. W. Spahr. No. 1,297,301; Mar. 11; v. 260; p. 370.
- Muzzle, Animal. J. S. Kehr. No. 1,300,977; Apr. 15; v. 261; p. 576.
- Muzzle, Calif. C. Andersen. No. 1,326,823; Dec. 30; v. 269; p. 836.
- N-methyl p-amino phenol, Manufacturing. R. N. Harger. No. 1,297,685; Mar. 18; v. 260; p. 479.
- N-monoarylsulfo-monoalkylamino-oxyaryl compounds able to be transformed into monoalkylamino-oxyaryl compounds and making same. E. Reber and J. Siegwart. No. 1,316,804; Sept. 23; v. 266; p. 502.
- Nail; *See* Wire nail.
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- Nail-clip. R. Sims. No. 1,290,380; Jan. 7; v. 258; p. 87.
- Nail distributing and loading machine. J. H. Pope. No. 1,325,752; Dec. 23; v. 269; p. 598.
- Nail-feeding mechanism. J. H. Pope. No. 1,325,751; Dec. 23; v. 269; p. 598.
- Nail-making machine, Oscillating. C. A. Taylor. No. 1,303,413; May 13; v. 262; p. 203.
- Nail-puller. M. Diamond. No. 1,317,156; Sept. 30; v. 266; p. 604.
- Nail-pulling device. J. Rolston. No. 1,292,886; Jan. 28; v. 258; p. 765.
- Nail, Weatherproof. G. E. Dickson. No. 1,315,477; Sept. 9; v. 266; p. 194.
- Nails, brads, and the like, Machine for forming. W. H. Johnson. No. 1,296,087; Mar. 4; v. 260; p. 62.
- Nails, Container for string-. J. P. Dubosh. No. 1,307,042; June 17; v. 263; p. 403.
- Nails, Machine for manufacturing nails from unfinished horseshoe-. O. H. Lund. No. 1,303,694; May 13; v. 262; p. 255.
- Nails or the like where desired, Device for driving or positioning. J. P. Dubosh. No. 1,307,043; June 17; v. 263; p. 402.
- Nailing-die. F. R. Akerley. No. 1,322,509; Nov. 25; v. 268; p. 571.
- Nailing-machine. R. C. Neff. No. 1,304,900; May 27; v. 262; p. 558.
- Name-plates and the like, Device for securing. H. M. Bellows. No. 1,314,731; Sept. 2; v. 266; p. 49.
- Nap-restoring means. D. Lindsay. No. 1,318,778; Oct. 14; v. 267; p. 274.
- Napkin, Catamenial. A. Wolff. No. 1,322,276; Nov. 18; v. 268; p. 476.
- Napkin-clasp. J. H. Poole. No. 1,303,957; May 20; v. 262; p. 341.
- Naphthol and allied products, Manufacture of. R. N. Wallach. No. 1,291,300; Jan. 14; v. 258; p. 331.
- Navigation, &c., Instrument for. E. Zona. No. 1,305,047; May 27; v. 262; p. 585.
- Navigation instrument. C. L. Poor. No. 1,308,748; July 1; v. 264; p. 136.
- Navigational instrument. E. A. Sperry. No. 1,300,890; Apr. 15; v. 261; p. 558.
- Neck-form device. A. T. Nalewaja. No. 1,301,489; Apr. 22; v. 261; p. 716.
- Neck-yoke-supporting attachment. H. Y. Viets. No. 1,302,608; May 6; v. 262; p. 24.
- Neckscarf or muffler or other knit goods. S. S. Sampliner. No. 1,325,755; Dec. 23; v. 269; p. 599.
- Necktie. L. S. Bach. No. 1,294,025; Feb. 11; v. 259; p. 276.
- Necktie. W. J. Clark. No. 1,295,696; Feb. 25; v. 259; p. 722.
- Necktie. S. Diana. No. 1,294,062; Feb. 11; v. 259; p. 285.
- Necktie. G. L. Hendrix. No. 1,324,740; Dec. 9; v. 269; p. 332.
- Necktie. W. K. Meyer. No. 1,299,498; Apr. 8; v. 261; p. 229.
- Necktie. W. Nuzum. No. 1,291,090; Jan. 14; v. 258; p. 284.
- Necktie. C. H. Rodeback. No. 1,298,565; Mar. 25; v. 260; p. 693.
- Necktie. H. J. Schottelkorb. No. 1,326,292; Dec. 30; v. 269; p. 736.
- Necktie. I. D. Wolfson. No. 1,300,682; Apr. 15; v. 261; p. 513.
- Necktie-adjuster. C. M. Sanders. No. 1,302,225; Apr. 29; v. 261; p. 887.
- Necktie and collar fastener, Combined. J. A. Smith. No. 1,299,801; Apr. 8; v. 261; p. 299.
- Necktie and making same. I. D. Wolfson. No. 1,300,683; Apr. 15; v. 261; p. 513.
- Necktie-fastener. J. A. Soderstrom. No. 1,305,947; June 3; v. 263; p. 136.
- Necktie form and fastener. C. C. Johnson. No. 1,319,587; Oct. 21; v. 237; p. 454.
- Necktie-guide. C. A. Blume. No. 1,324,028; Dec. 9; v. 269; p. 196.
- Necktie-holder. D. C. Benedict. No. 1,298,439; Mar. 25; v. 260; p. 666.
- Necktie-holder. J. T. Clark. No. 1,318,846; Oct. 14; v. 267; p. 287.
- Necktie-holder. W. Dugan. No. 1,315,823; Sept. 9; v. 266; p. 255.
- Necktie-holder. A. Katzke. No. 1,313,822; Aug. 19; v. 265; p. 422.
- Necktie-holder. W. Linkowski. No. 1,301,792; Apr. 22; v. 261; p. 776.
- Necktie-holder. J. S. Willey. No. 1,318,248; Oct. 7; v. 267; p. 113.
- Necktie-package. B. Rogall. No. 1,304,911; May 27; v. 262; p. 560.
- Necktie-presser. J. R. Adler. No. 1,296,031; Mar. 4; v. 260; p. 49.
- Necktie-presser. H. Kangieser. No. 1,302,807; May 6; v. 262; p. 62.
- Necktie-stretcher. M. S. Kuhns. No. 1,302,383; Apr. 29; v. 261; p. 917.
- Necktie-support. W. F. Thompson. No. 1,318,242; Oct. 7; v. 267; p. 112.
- Necktie-tying form. B. W. J. Wofford. No. 1,300,321; Apr. 15; v. 261; p. 438.
- Neckties, Making. I. D. Wolfson. No. 1,300,684; Apr. 15; v. 261; p. 513.
- Neckwear. W. A. Keys. No. 1,310,192; July 15; v. 264; p. 468.
- Neckwear. J. H. M. Lipp. No. 1,300,179; Apr. 8; v. 261; p. 380.
- Neckwear-stock. J. K. P. Pine. No. 1,297,398; Mar. 18; v. 260; p. 419.
- Neckwear-stock. J. E. Sipperly. No. 1,299,514; Apr. 8; v. 261; p. 232.
- Needle-bar mechanism. A. H. De Voe. No. 1,296,633; Mar. 11; v. 260; p. 219.
- Needle-clamp. J. Berger, Jr. No. 1,300,272; July 8; v. 264; p. 261.
- Needle, Crochet-. I. M. Jensen. No. 1,303,327; May 13; v. 262; p. 188.
- Needle, Embroidery-. R. L. Jewett. No. 1,324,398; Dec. 9; v. 269; p. 267.
- Needle, Hand Sewing-. J. J. Armstrong. No. 1,293,660; Feb. 11; v. 259; p. 190.
- Needle, Knitting-. W. H. Brown. No. 1,313,461; Aug. 19; v. 265; p. 354.
- Needle-mount. G. A. Wilkins. No. 1,326,555; Dec. 30; v. 269; p. 786.
- Needle, Spring-beard. F. Wilcomb. No. 1,297,428; Mar. 18; v. 260; p. 425.
- Needle-threader. F. P. Jackman. No. 1,306,668; June 10; v. 263; p. 301.
- Needling-machine. W. H. Wagner. No. 1,326,236; Dec. 30; v. 269; p. 725.
- Nest. H. F. Maranville. No. 1,320,774; Nov. 4; v. 268; p. 78.
- Nest, Automatic. F. L. Morgan. No. 1,324,612; Dec. 9; v. 269; p. 308.
- Nest-box. C. M. Vlasak. No. 1,309,345; July 8; v. 264; p. 275.
- Nest, Egg-recording. L. S. Linder. No. 1,302,818; May 6; v. 262; p. 64.
- Nest, Hen's. G. A. Brown. No. 1,319,460; Oct. 21; v. 267; p. 430.
- Nest, Hen's. P. S. Ostgaard. No. 1,325,038; Dec. 16; v. 269; p. 448.
- Nest, Hen's. J. D. Shockley. No. 1,315,046; Sept. 2; v. 266; p. 105.
- Nest, Knockdown hen's. E. Swanson. No. 1,315,492; Sept. 9; v. 266; p. 185.
- Nest, Trap-. I. M. Guertin. No. 1,291,852; Jan. 21; v. 258; p. 493.
- Nest, Trap-. R. G. Harris. No. 1,296,388; Mar. 4; v. 260; p. 130.
- Nest, Trap-. V. O'Rourke. No. 1,318,105; Oct. 7; v. 267; p. 84.
- Nesting-machine. H. C. Harvey. No. 1,323,632; Dec. 2; v. 269; p. 76.
- Net-float. A. O. Harris. No. 1,296,386; Mar. 4; v. 260; p. 129.
- Net-frame. R. M. Franklin. No. 1,291,469; Jan. 14; v. 258; p. 371.
- Nets, Making lace hair-. R. Saenger. No. 1,300,881; Apr. 15; v. 261; p. 556.
- Nets vertically in the water, Means for suspending. C. Barnett. No. 1,320,033; Oct. 28; v. 267; p. 561.
- Nethergarment. H. E. Fleck. No. 1,316,151; Sept. 16; v. 266; p. 330.
- Newel-post. C. Itschner. No. 1,291,906; Jan. 21; v. 258; p. 507.
- News-stand. L. D. Resch. No. 1,295,209; Feb. 25; v. 259; p. 608.

- Nickel catalyzers employed in the hydrogenation of fatty bodies, Regenerating oxid-of. G. N. Vis. No. 1,326,122; Dec. 23; v. 269; p. 667.
- Nickel-copper matte, Refining. C. and O. Langer. No. 1,291,030; Jan. 14; v. 258; p. 268.
- Nickel scrap and sludge, Treating. W. M. Johnson. No. 1,299,577; Apr. 8; v. 261; p. 247.
- Nicotin field-baths, Purifying. R. G. Mewborne and H. K. McConnell. No. 1,317,210; Sept. 30; v. 266; p. 613.
- Night-light. J. Reicher. No. 1,309,545; July 8; v. 264; p. 312.
- Nipper. V. E. Bowman. No. 1,317,424; Sept. 30; v. 266; p. 654.
- Nipper, Thread-. J. R. Moffatt and R. S. Kelso. No. 1,312,799; Aug. 12; v. 265; p. 210.
- Nippers and handcuffs combined, Policeman's. G. W. Pratt. (Reissue). No. 14,714; Aug. 19; v. 265; p. 432.
- Nipple. M. H. McMann. No. 1,297,207; Mar. 11; v. 260; p. 348.
- Nipple for air-hammers, Hose-. F. Adkins. No. 1,314,235; Aug. 26; v. 265; p. 535.
- Nipples, caps, &c., on containers, Device for attaching. W. P. Limacher. No. 1,319,297; Oct. 21; v. 267; p. 399.
- Nipples, Making spoke-. J. H. Graham. No. 1,322,106; Nov. 18; v. 268; p. 443.
- Niter cake and making same, Chipped. C. S. Benjamin. No. 1,312,430; Aug. 5; v. 265; p. 108.
- Niter cake and similar substances, Process and product for utilizing. H. A. Galt. No. 1,312,782; Aug. 12; v. 265; p. 207.
- Niter cake and similar substances, Process and product for utilizing. H. A. Galt. No. 1,312,783; Aug. 12; v. 265; p. 207.
- Niter cake, Treating. J. Beveridge. No. 1,315,811; Sept. 9; v. 266; p. 252.
- Niter cake, Utilization of. J. Grossmann. No. 1,298,334; Mar. 25; v. 260; p. 643.
- Niter-decomposing apparatus. N. L. Heinz. No. 1,315,834; Sept. 9; v. 266; p. 257.
- Nitrated bodies, Treating. J. V. Skoglund. No. 1,311,017; July 22; v. 264; p. 651.
- Nitrated cellulose products, Manufacturing. W. B. Thomson, W. D. Severn, and G. Twycross. No. 1,302,455; Apr. 29; v. 261; p. 932.
- Nitrated coal-tar derivatives, Treating liquor from reducing processes of. I. Kitsee. No. 1,298,513; Mar. 25; v. 260; p. 683.
- Nitration method. C. Ellis and A. A. Wells. No. 1,309,320; July 8; v. 264; p. 271.
- Nitration of organic liquids, Apparatus for. A. Hough. No. 1,312,119; Aug. 5; v. 265; p. 50.
- Nitration process. A. E. Holley and O. E. Mott. No. 1,297,170; Mar. 11; v. 260; p. 341.
- Nitro compound, Obtaining. F. B. Holmes. No. 1,309,577; July 8; v. 264; p. 319.
- Nitro compounds, Production of. L. J. J. Perruche. No. 1,325,168; Dec. 16; v. 269; p. 473.
- Nitroaromatic compounds, Purifying. H. L. Wollenberg and C. A. Bigelow. No. 1,297,524; Mar. 18; v. 260; p. 445.
- Nitrocellulose-drier. F. I. du Pont. No. 1,301,409; Apr. 22; v. 261; p. 701.
- Nitrogen, Apparatus for fixation of atmospheric. J. S. Island. No. 1,316,445; Sept. 16; v. 266; p. 386.
- Nitrogen compounds, especially nitrates, Process and apparatus for producing. A. R. Lindblad. No. 1,311,568; July 29; v. 264; p. 786.
- Nitrogen compounds, Fixation-chamber for making. A. Kaufman. No. 1,307,362; June 24; v. 263; p. 494.
- Nitrogen compounds, Making. C. B. Jacobs. No. 1,311,231; July 29; v. 264; p. 723.
- Nitrogen, Fixation of. F. L. Slocum. No. 1,318,929; Oct. 14; v. 267; p. 303.
- Nitrogen, Fixation of atmospheric. J. S. Island. No. 1,317,705; Oct. 7; v. 267; p. 9.
- Nitrogen, Fixing. F. D. Lindquist. No. 1,298,363; Mar. 25; v. 260; p. 648.
- Nitrogen from air, Obtaining. N. C. Tommasi. No. 1,295,635; Feb. 25; v. 259; p. 707.
- Nitrogen from atmospheric air, Process of and apparatus for obtaining oxids from. F. I. du Pont. No. 1,311,594; July 29; v. 264; p. 791.
- Nitrogen from blast-furnaces, Recovering combined. E. W. Haslup. No. 1,310,480; July 22; v. 264; p. 551.
- Nitrogen or air, Apparatus for producing cyanids from. H. B. Kipper. No. 1,322,026; Nov. 18; v. 268; p. 428.
- Nitrogen, Process and means for fixing atmospheric. R. Williams. No. 1,314,231; Aug. 26; v. 265; p. 534.
- Nitrogen, Purifying. N. T. Bacon. No. 1,304,932; May 27; v. 262; p. 563.
- Nitrogen, Recovering fixed. E. W. Haslup. No. 1,310,478; July 22; v. 264; p. 551.
- Nitroglycols. J. Barab. No. 1,307,032; June 17; v. 263; p. 401.
- Nitroglycols. J. Barab. No. 1,307,033; June 17; v. 263; p. 401.
- Nitroglycols. J. Barab. No. 1,307,034; June 17; v. 263; p. 402.
- Nitrophenols, Manufacture of. D. B. Macdonald. No. 1,320,076; Oct. 28; v. 267; p. 569.
- Nitrophenols, Manufacture of. D. B. Macdonald. No. 1,320,077; Oct. 28; v. 267; p. 569.
- Non-binding switch. E. L. Burton. No. 1,301,099; Apr. 22; v. 261; p. 639.
- Non-conducting and waterproof composition and manufacturing same. J. J. Laing and C. W. Boling. No. 1,305,125; May 27; v. 262; p. 600.
- Non-freezable automatic fountain. A. M. C. Mitchell. No. 1,320,264; Oct. 28; v. 267; p. 604.
- Non-grounded or metallic circuit system. A. E. Keith. No. 1,321,313; Nov. 11; v. 268; p. 244.
- Non-inductive interference system. C. L. Fortescue. No. 1,303,281; May 13; v. 262; p. 180.
- Non-refillable container. C. H. Nowack. No. 1,304,800; May 27; v. 262; p. 539.
- Non-removable securing member. F. H. D. Bergmann. No. 1,321,796; Nov. 11; v. 268; p. 335.
- Non-skid attachment. S. E. Haddorff. No. 1,321,032; Nov. 4; v. 268; p. 127.
- Non-skid chain and tire. C. E. Schneider. No. 1,304,813; May 27; v. 262; p. 542.
- Non-skid-chain-fastening means. B. F. Hosley. No. 1,318,081; Oct. 7; v. 267; p. 80.
- Non-skid cushion suction-beel. C. E. Siegfried. No. 1,303,841; May 13; v. 262; p. 282.
- Non-skid device. J. Achberger. No. 1,290,474; Jan. 7; v. 258; p. 112.
- Non-skid device. J. Adams. No. 1,320,667; Nov. 4; v. 268; p. 57.
- Non-skid device. B. O. Beadle. No. 1,301,535; Apr. 22; v. 261; p. 724.
- Non-skid device and emergency-brake. J. R. Ostolaza. No. 1,310,209; July 15; v. 264; p. 471.
- Non-skid-clement connector. R. I. Vincent and W. L. McCowan. No. 1,291,293; Jan. 14; v. 258; p. 329.
- Non-skid for trucks. F. Huda. No. 1,302,373; Apr. 29; v. 261; p. 915.
- Non-skidding device. L. G. Salembier. No. 1,324,069; Dec. 9; v. 269; p. 203.
- Non-skidding device. L. Stephany, Sr. No. 1,292,529; Jan. 28; v. 258; p. 679.
- Non-slipping and non-skidding device. G. F. Meyer. No. 1,294,510; Feb. 18; v. 259; p. 425.
- Noodle-cutter. J. Kollar. No. 1,321,215; Nov. 11; v. 268; p. 225.
- Noodle-cutting machine. L. Marko. No. 1,314,885; Sept. 2; v. 266; p. 76.
- Noodle-making device. J. Kunst. No. 1,301,065; Apr. 15; v. 261; p. 594.
- Noodles, Machine for cutting. A. Iltis. No. 1,310,343; July 15; v. 264; p. 495.
- Nose-bag. F. Isele. No. 1,296,962; Mar. 11; v. 260; p. 295.
- Nose-forming machine. W. Ferrier. No. 1,297,819; Mar. 18; v. 260; p. 508.
- Nose-guard. E. R. Twitchell. No. 1,297,753; Mar. 18; v. 260; p. 495.
- Nose protector or shield, Horse's. F. P. Weigel. No. 1,311,933; Aug. 5; v. 265; p. 15.
- Nostril-cleaner. L. R. Schuler. No. 1,326,616; Dec. 30; v. 269; p. 797.
- Nostril-dilator. W. F. Sawyer. No. 1,292,083; Jan. 21; v. 258; p. 551.
- Notebook, Self-illuminating. W. Meyner. No. 1,313,551; Aug. 19; v. 265; p. 371.
- Note-sheet control, Ratchet-regulator for. W. A. Watson. No. 1,306,207; June 10; v. 263; p. 214.
- Notes, bills, and other paper money, Method and means for holding. F. J. Widdowson. No. 1,305,326; June 3; v. 263; p. 19.
- Novelty-holder. P. D. Scarborough. No. 1,326,099; Dec. 23; v. 269; p. 663.
- Nozzle and clamp, Hose-coupling. E. E. Greve. No. 1,300,956; Apr. 15; v. 261; p. 572.
- Nozzle, Faucet-. A. W. Wheaton. No. 1,318,120; Oct. 7; v. 267; p. 87.
- Nozzle, Flange-oller. A. C. Beckwith. No. 1,292,567; Jan. 28; v. 258; p. 689.
- Nozzle for pressure-sensitive devices. E. H. Bristol. No. 1,311,798; July 29; v. 264; p. 829.
- Nozzle for steam-turbines. J. Toyokawa. No. 1,304,412; May 20; v. 262; p. 427.
- Nozzle, Nasal. J. M. Tobin. No. 1,298,422; Mar. 25; v. 260; p. 661.
- Nozzle, Paint-spraying. D. A. Doran. No. 1,326,483; Dec. 30; v. 269; p. 772.
- Nozzle-ring. E. H. Sherbondy. No. 1,310,675; July 22; v. 264; p. 588.
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- Nozzle-ring. E. H. Sherbondy. No. 1,310,677; July 22; v. 264; p. 588.
- Nozzle-ring, Turbine. E. H. Sherbondy. No. 1,310,681; July 22; v. 264; p. 589.
- Nozzle, Shut-off. W. G. Hawley. No. 1,309,732; July 15; v. 264; p. 384.
- Nozzle, Spray-. W. D. Ballerstedt. No. 1,310,938; July 22; v. 264; p. 636.
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- Nozzle, Spray-. L. H. Parker. No. 1,309,597; July 8; v. 264; p. 322.
- Nozzle, Spraying-. O. H. Judson. No. 1,293,108; Feb. 4; v. 259; p. 32.
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- Nozzle, Spraying-. H. L. Pettit. No. 1,295,922; Mar. 4; v. 260; p. 23.
- Number-indicating system. A. E. Lundell. No. 1,291,960; Jan. 21; v. 258; p. 521.
- Numbering-machine, Typographic. A. H. Benham. No. 1,303,014; May 6; v. 262; p. 102.
- Numbering mechanism. H. F. Scott. No. 1,324,469; Dec. 9; v. 269; p. 281.
- Nursery-chair. N. D. Hughes. No. 1,291,898; Jan. 21; v. 258; p. 505.
- Nut. J. F. Duke. No. 1,313,075; Aug. 12; v. 265; p. 265.
- Nut. M. H. J. Redmer. No. 1,302,854; May 6; v. 262; p. 71.
- Nut. J. N. B. Wilson. No. 1,324,867; Dec. 16; v. 269; p. 417.
- Nut and bolt head wrench. C. Herrman. No. 1,297,846; Mar. 18; v. 260; p. 513.
- Nut and bolt lock. A. B. Johnson. No. 1,324,012; Dec. 2; v. 269; p. 148.
- Nut and bolt tightening device. J. M. Murray. No. 1,290,296; Jan. 7; v. 258; p. 68.
- Nut and constructing same, Lock-. W. E. Sharp. No. 1,298,583; Mar. 25; v. 260; p. 697.
- Nut and making same, Lock-. C. C. Williams. No. 1,294,995; Feb. 18; v. 259; p. 536.
- Nut, Bolt-locking. J. B. Hood. No. 1,324,822; Dec. 16; v. 269; p. 409.
- Nut-branding process. A. L. De Leeuw. No. 1,323,620; Dec. 2; v. 269; p. 74.
- Nut-clamp. H. A. Haskell. No. 1,322,434; Nov. 18; v. 268; p. 506.
- Nut-cutting tool. A. L. Stanford. No. 1,300,039; Apr. 8; v. 261; p. 350.
- Nut-fastener. J. F. Schuman. No. 1,310,167; July 15; v. 264; p. 463.
- Nut hulling and cracking machine. L. K. Vaughn. No. 1,294,852; Feb. 18; v. 259; p. 505.
- Nut-husking machine. A. Rosenthal. No. 1,297,497; Mar. 18; v. 260; p. 439.
- Nut-kernels, Machine for blanching. C. S. Gooding and S. E. Taft. No. 1,322,300; Nov. 18; v. 268; p. 480.
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- Nut-lock. H. Andrix. No. 1,320,962; Nov. 4; v. 268; p. 114.
- Nut, Lock-. R. W. Baker. No. 1,296,038; Mar. 4; v. 260; p. 51.
- Nut-lock. S. Barber. No. 1,324,023; Dec. 9; v. 269; p. 195.
- Nut-lock. A. R. Bennett. No. 1,323,571; Dec. 2; v. 269; p. 66.
- Nut-lock. E. S. Clark. No. 1,292,707; Jan. 28; v. 258; p. 723.
- Nut-lock. S. I. Clark. No. 1,293,338; Feb. 4; v. 259; p. 84.
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- Nut-lock. C. M. Crosby. No. 1,294,410; Feb. 18; v. 259; p. 401.
- Nut, Lock-. C. W. Dake. No. 1,316,084; Sept. 16; v. 266; p. 318.
- Nut, Lock-. C. W. Dake. No. 1,321,894; Nov. 18; v. 268; p. 404.
- Nut-lock. R. U. Day. No. 1,305,698; June 3; v. 263; p. 89.
- Nut-lock. E. V. De Young and L. Terwilliger. No. 1,298,469; Mar. 25; v. 260; p. 672.
- Nut-lock. H. J. Dery. No. 1,299,691; Apr. 8; v. 261; p. 273.
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- Oil from ships' wells and for separating it from water and extraneous matters, Apparatus for recovering. N. Gentile. No. 1,317,971; Oct. 7; v. 267; p. 59.
- Oil-fuel in vessels, Storage of. H. E. Yarrow. No. 1,296,449; Mar. 4; v. 260; p. 142.
- Oil-fuel in vessels, Storage of. H. E. Yarrow. No. 1,296,450; Mar. 4; v. 260; p. 142.
- Oil-furnace burner, Fuel-. M. R. Pavon. No. 1,297,580; Mar. 18; v. 260; p. 458.
- Oil-gage signal and circuit-breaker. H. M. Dickerson. No. 1,305,963; June 3; v. 263; p. 139.
- Oil-gas generator and burner. J. J. Smith. No. 1,326,469; Dec. 30; v. 269; p. 769.
- Oil, Hardening. C. Ellis. No. 1,294,068; Feb. 11; v. 259; p. 286.
- Oil-heater. J. F. Higgins. No. 1,301,262; Apr. 22; v. 261; p. 672.
- Oil-heater. R. Hoffman. No. 1,292,316; Jan. 21; v. 258; p. 608.
- Oil heater, Lubricating-. J. Anderson. No. 1,294,022; Feb. 11; v. 259; p. 275.
- Oil in motors of motor-vehicles, Apparatus for controlling the flow of lubricating-. B. G. Gartin. No. 1,302,535; May 6; v. 262; p. 11.
- Oil-level indicator and signaling device. A. J. Routson. No. 1,310,544; July 22; v. 264; p. 563.
- Oil, Lubricating-. H. M. Wells and J. E. Southcombe. No. 1,319,129; Oct. 21; v. 267; p. 366.
- Oil of high boiling-points into products having lower boiling-points, Converting mineral. R. Koetschau. No. 1,325,299; Dec. 16; v. 269; p. 498.
- Oil or gas furnace. O. P. Wilhelm and J. F. Posdal. No. 1,295,944; Mar. 4; v. 260; p. 28.
- Oil-pipe-blowing-out device. G. M. Tew. No. 1,290,408; Jan. 7; v. 258; p. 95.
- Oil preparation, Edible-. H. V. Dunham. No. 1,302,486; Apr. 29; v. 261; p. 937.
- Oil preparation, Medicinal-. H. V. Dunham. No. 1,302,487; Apr. 29; v. 261; p. 937.
- Oil-press, Automatic continuous hydraulic. C. D. Helm. No. 1,316,036; Sept. 16; v. 266; p. 309.
- Oil, Process and apparatus for stimulating the production of. F. B. Waring. No. 1,291,302; Jan. 14; v. 258; p. 331.
- Oil, Process of and apparatus for treating. F. M. Seibert and J. D. Brady. No. 1,290,369; Jan. 7; v. 258; p. 85.
- Oil product, Edible. C. Ellis. (Reissue.) No. 14,607; Mar. 11; v. 260; p. 371.
- Oil purifier and separator. H. Ten Winkel. No. 1,290,820; Jan. 7; v. 258; p. 194.
- Oil, Purifying. A. E. Miller. No. 1,311,987; Aug. 5; v. 265; p. 25.
- Oil purifying and reclaiming system, Lubricating-. F. W. Kennedy. No. 1,318,086; Oct. 7; v. 267; p. 81.
- Oil, Refining. C. B. Forward. No. 1,299,449; Apr. 8; v. 261; p. 218.
- Oil-regulating system, Fuel-. C. D. Stewart. No. 1,314,161; Aug. 26; v. 265; p. 520.
- Oil-retainer. E. B. Cantrell and G. E. Miller. No. 1,291,397; Jan. 14; v. 258; p. 354.
- Oil-saver. D. S. Shehady. No. 1,302,231; Apr. 29; v. 261; p. 888.
- Oil, Separating. C. J. Skidmore. No. 1,302,094; Apr. 29; v. 261; p. 862.
- Oil separator, Crude-. W. P. Lawrence. No. 1,315,632; Sept. 9; v. 266; p. 220.
- Oil-shale, Distillation of hydrocarbons from. J. A. McCaskell. No. 1,317,514; Sept. 30; v. 266; p. 672.
- Oil still, Crude-. T. E. Murray. No. 1,302,200; Apr. 29; v. 261; p. 882.

- Oil-storage-tank safety-vent. W. M. Bowles. No. 1,298,872; Apr. 1; v. 261; p. 58.
- Oil-stove. W. A. Emmerson. No. 1,314,312; Aug. 26; v. 265; p. 550.
- Oil-stove. J. Stolpe and A. Matson. No. 1,307,219; June 17; v. 263; p. 434.
- Oil-switch box. H. F. Krantz. No. 1,324,909; Dec. 16; v. 269; p. 424.
- Oil-tank. J. A. Butcher. No. 1,311,753; July 29; v. 264; p. 821.
- Oil-tank. W. MacPherson. No. 1,319,298; Oct. 21; v. 267; p. 399.
- Oil-tank contruction. J. W. Cunningham. No. 1,310,064; July 15; v. 264; p. 444.
- Oil-tank float control. C. F. Hirsch. No. 1,294,265; Feb. 11; v. 259; p. 332.
- Oil-tanks, Heater for. G. C. Bowen. No. 1,324,380; Dec. 9; v. 269; p. 263.
- Oil-tanks, Means for heating oil in. C. W. Stokes and H. B. Reddish. No. 1,306,288; June 10; v. 263; p. 232.
- Oil-trap, Crank-case. L. R. Poschadel. No. 1,303,111; May 6; v. 262; p. 121.
- Oil-treating apparatus. C. F. Gaiser. No. 1,311,268; July 29; v. 264; p. 730.
- Oil vaporizer and burner. C. Harvey. No. 1,317,289; Sept. 30; v. 266; p. 629.
- Oil vaporizer and burner. C. C. Lillibridge. No. 1,295,775; Feb. 25; v. 259; p. 739.
- Oil vaporizing, mixing, and delivering device. A. C. Beckwith. No. 1,292,566; Jan. 28; v. 258; p. 689.
- Oil wagon-tank. A. Davis, Jr. No. 1,311,155; July 29; v. 264; p. 709.
- Oil-well-cleaning appliance. W. J. Hogue. No. 1,293,777; Feb. 11; v. 259; p. 218.
- Oil-well-drilling drive. V. York. No. 1,297,289; Mar. 11; v. 260; p. 366.
- Oil-well-heating apparatus. W. H. Drinkern. No. 1,309,721; July 15; v. 264; p. 382.
- Oil-well screen. C. N. Scott. (Reissue.) No. 14,756; Nov. 18; v. 268; p. 521.
- Oil-wells, Cleaning. L. S. Hoon. No. 1,325,293; Dec. 16; v. 269; p. 497.
- Oil-wells, Excluding water from drilled. J. C. Swan. No. 1,307,027; June 17; v. 263; p. 400.
- Oil-wells, Operating. C. A. Waitz. No. 1,295,243; Feb. 25; v. 259; p. 617.
- Oil-wiper. W. J. Goodrich. No. 1,316,707; Sept. 23; v. 266; p. 485.
- Oils and fats, Apparatus for hydrogenizing. H. Lane. No. 1,307,588; June 24; v. 263; p. 535.
- Oils and product thereof, Treating vulcanized. W. O. Snelling. No. 1,315,246; Sept. 9; v. 266; p. 151.
- Oils and products thereof, Manufacturing lubricating. R. H. Brownlee. No. 1,309,432; July 8; v. 264; p. 291.
- Oils and resins from hops, Apparatus for the extraction of. F. W. Wolf. No. 1,319,984; Oct. 28; v. 267; p. 552.
- Oils, Apparatus for extracting aromatic. F. C. Ruff. No. 1,319,420; Oct. 21; v. 267; p. 423.
- Oils, Apparatus for separating composite. F. E. Van Tilburg. No. 1,326,230; Dec. 30; v. 269; p. 734.
- Oils, Apparatus for treating. H. Schlossstein. No. 1,296,013; Mar. 4; v. 260; p. 44.
- Oils, Apparatus for treating hydrocarbon. R. H. Brownlee. No. 1,325,927; Dec. 23; v. 269; p. 631.
- Oils, Cracking heavy. C. Ellis. No. 1,295,825; Feb. 25; v. 259; p. 751.
- Oils, Desulfurizing petroleum. E. B. Cobb. No. 1,300,816; Apr. 15; v. 261; p. 543.
- Oils, fats, and like materials, Process and apparatus for the hydrogenation of. E. B. Maxted. No. 1,313,407; Aug. 19; v. 265; p. 344.
- Oils from washing-oil and regenerating the latter, Apparatus for separating light. H. Koppers. No. 1,323,396; Dec. 2; v. 269; p. 33.
- Oils, Heating means for mineral. W. P. Strother. No. 1,326,618; Dec. 30; v. 269; p. 798.
- Oils, Improving. A. M. McAfee. No. 1,326,072; Dec. 23; v. 269; p. 658.
- Oils, Manufacture of lubricating. H. F. Grant. No. 1,303,292; May 13; v. 262; p. 182.
- Oils, Method and apparatus for using reagents in the refining of petroleum. E. H. Leslie. No. 1,310,164; July 15; v. 264; p. 463.
- Oils, Process and apparatus for refining. J. R. Miller. No. 1,312,265; Aug. 5; v. 265; p. 76.
- Oils, Process and apparatus for refining vegetable. C. L. Riley. No. 1,320,093; Oct. 28; v. 267; p. 572.
- Oils, Process and apparatus for refining vegetable. C. L. Riley. No. 1,320,094; Oct. 28; v. 267; p. 573.
- Oils, Refining, fracturing, and reducing. W. C. and F. E. Wells. No. 1,296,244; Mar. 4; v. 260; p. 98.
- Oils, Treating hydrocarbon. R. H. Brownlee. No. 1,308,161; July 1; v. 264; p. 28.
- Oils, Treating hydrocarbon. L. A. Dubbs. No. 1,319,053; Oct. 21; v. 267; p. 352.
- Oils, Treating hydrocarbon. M. J. Trumble. No. 1,304,125; May 20; v. 262; p. 372.
- Oils, Treating mineral. C. J. Greenstreet. No. 1,299,172; Apr. 1; v. 261; p. 127.
- Oils, Treating vegetable. C. J. Barton. No. 1,310,977; July 22; v. 264; p. 643.
- Oils, Treatment of emulsion. F. M. Rogers. No. 1,299,385; Apr. 1; v. 261; p. 174.
- Oils, Treatment of hydrocarbon. R. H. Brownlee. No. 1,320,376; Nov. 4; v. 268; p. 4.
- Oils, Treatment of petroleum. E. B. Cobb. No. 1,315,623; Sept. 9; v. 266; p. 219.
- Oiler. F. L. Cantrall. No. 1,326,845; Dec. 30; v. 269; p. 840.
- Oiler. J. L. Fusner. No. 1,304,301; May 20; v. 262; p. 405.
- Oiler. J. F. Macindoe. No. 1,290,618; Jan. 7; v. 258; p. 146.
- Oiler. M. C. and C. H. Van Alstyne. No. 1,314,771; Sept. 2; v. 266; p. 56.
- Oiler. M. C. and C. H. Van Alstyne. No. 1,323,128; Nov. 25; v. 268; p. 687.
- Oiler and disinfectant, Automatic hog. N. M. Doty. No. 1,305,965; June 3; v. 263; p. 140.
- Oiler, Animal. C. D. Enochs. No. 1,320,326; Oct. 28; v. 267; p. 615.
- Oiler, Automatic vacuum-cup hog. E. F. Porter. No. 1,316,970; Sept. 23; v. 266; p. 532.
- Oiler, Compression. C. H. Jockmus. No. 1,325,248; Dec. 16; v. 269; p. 488.
- Oiler, Crank-case. V. N. Hansen. No. 1,323,631; Dec. 2; v. 269; p. 76.
- Oiler, Flange. J. W. Fox. No. 1,315,487; Sept. 9; v. 266; p. 195.
- Oiler for journals, Supplemental. D. M. Mahaney. No. 1,309,864; July 15; v. 264; p. 408.
- Oiler for punch-presses, &c. H. J. Zenner. No. 1,320,725; Nov. 4; v. 268; p. 68.
- Oiler for stocks and dies. J. I. Marshall. No. 1,319,600; Oct. 21; v. 267; p. 457.
- Oiler, Guide-rail. E. Weigele. No. 1,294,733; Feb. 18; v. 259; p. 476.
- Oiler, Hog. H. J. Criner. No. 1,303,815; May 13; v. 262; p. 277.
- Oiler, Hog. H. D. Duckham. No. 1,306,473; June 10; v. 263; p. 266.
- Oiler, Hog. P. C. James. No. 1,316,097; Sept. 16; v. 266; p. 320.
- Oiler, Hog. I. W. Leeper. No. 1,318,159; Oct. 7; v. 267; p. 95.
- Oiler, Hog. H. J. Schipper. No. 1,302,979; May 6; v. 262; p. 95.
- Oiler or lubricator, Shaft. F. English. No. 1,310,611; July 22; v. 264; p. 576.
- Oiler, Saw. J. S. Schmidt. No. 1,313,743; Aug. 19; v. 265; p. 407.
- Oiler, Saw. O. F. Wilkerson. No. 1,311,851; July 29; v. 264; p. 839.
- Oiler, Skillet, griddle, and bake-pan. W. F. Blake. No. 1,296,456; Mar. 4; v. 260; p. 143.
- Oiler, Spring. G. L. Woodjard. No. 1,301,529; Apr. 22; v. 261; p. 723.
- Oilers or tanks, Clamp for hog. M. C. Wright. No. 1,313,446; Aug. 19; v. 265; p. 351.
- Oilers, Thermo-container for hand-. C. A. Weed. No. 1,305,677; June 3; v. 263; p. 85.
- Oiling and cleaning device, Griddle. O. J. Mourning. No. 1,321,387; Nov. 11; v. 268; p. 259.
- Oiling attachment for motor-vehicles. E. E. Wells. No. 1,315,616; Sept. 9; v. 266; p. 217.
- Oiling device. J. E. Busby. No. 1,301,816; Apr. 29; v. 261; p. 810.
- Oiling device. M. Croner. No. 1,321,891; Nov. 18; v. 268; p. 404.
- Oiling device. P. Hale. No. 1,311,068; July 22; v. 264; p. 660.
- Oiling device. C. S. Kepler. No. 1,310,663; July 22; v. 264; p. 585.
- Oiling device. J. R. Tillman. No. 1,318,417; Oct. 14; v. 267; p. 205.
- Oiling device. E. A. Winbolt. No. 1,307,889; June 24; v. 263; p. 589.
- Oiling device for dough-molding machines. R. F. Lawson. No. 1,305,127; May 27; v. 262; p. 600.
- Oiling device for loose pulleys, gears, &c. Ring. C. A. Dietrich. No. 1,306,753; June 17; v. 263; p. 349.
- Oiling device for silent chains. J. E. Sirrine. No. 1,314,438; Aug. 26; v. 265; p. 574.
- Oiling device for vehicle-wheels, Automatic. C. N. Morgan. No. 1,297,717; Mar. 18; v. 260; p. 486.
- Oiling hand-saws, Device for. R. R. Myers. No. 1,314,420; Aug. 26; v. 265; p. 571.
- Oiling machine, Rail. R. B. Johnson. No. 1,307,498; June 24; v. 263; p. 519.
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- Oiling system for steam-lines. D. J. C. Meyerinhg. No. 1,294,363; Feb. 11; v. 259; p. 354.
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- Ointment and preparing same. F. Tolentini. No. 1,314,444; Aug. 26; v. 265; p. 575.
- Omelet-pan. W. Kavanagh. No. 1,292,476; Jan. 28; v. 258; p. 666.
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- Onion-topping machine. D. H. Royer. No. 1,299,233; Apr. 1; v. 261; p. 140.
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- Open-hearth and reverberatory furnaces. Construction of the roof of. G. C. Carson. No. 1,302,307; Apr. 29; v. 261; p. 902.
- Open-hearth furnace. G. F. Downs. No. 1,308,404; July 1; v. 264; p. 73.
- Open-hearth furnace. A. Miller. No. 1,309,149; July 8; v. 264; p. 239.
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- Ophthalmic mounting. L. W. Bugbee. No. 1,324,225; Dec. 9; v. 269; p. 233.
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- Ophthalmic mounting. G. W. McKinstry. No. 1,317,206; Sept. 30; v. 266; p. 613.
- Ophthalmic mounting. G. W. McKinstry. No. 1,317,207; Sept. 30; v. 266; p. 613.
- Ophthalmic mounting. H. K. Parsons. No. 1,290,330; Jan. 7; v. 258; p. 77.
- Ophthalmic mounting. H. K. Parsons. No. 1,297,232; Mar. 11; v. 260; p. 354.
- Ophthalmic mounting. E. L. Schumacher. No. 1,306,779; June 17; v. 263; p. 354.
- Ophthalmic mounting. E. L. Schumacher. No. 1,324,211; Dec. 9; v. 269; p. 230.
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- Ophthalmic mounting. F. A. Stephens. No. 1,308,964; July 8; v. 264; p. 204.
- Ophthalmic mounting. F. A. Stevens. No. 1,293,232; Feb. 4; v. 259; p. 59.
- Ophthalmic mounting. F. A. Stevens. No. 1,320,655; Nov. 4; v. 268; p. 55.
- Ophthalmic mounting. H. H. Styll and L. W. Bugbee. No. 1,324,216; Dec. 9; v. 269; p. 231.
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- Optical appliance for two-color heliochromy. F. Twyman and H. Workman. No. 1,304,517; May 20; v. 262; p. 448.
- Optical focuser. J. Becker. No. 1,319,750; Oct. 28; v. 267; p. 508.
- Optical glass. Single and double tube. H. Fouasse. No. 1,302,351; Apr. 29; v. 261; p. 911.
- Optical instrument. A. Greiner. No. 1,324,448; Dec. 9; v. 269; p. 276.
- Optical instrument. H. H. Peck. No. 1,304,507; May 20; v. 262; p. 446.
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- Optical instrument. H. H. Peck. No. 1,314,479; Aug. 26; v. 265; p. 581.
- Optical instrument. H. H. Peck. No. 1,314,480; Aug. 26; v. 265; p. 582.
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- Optical projecting apparatus. F. McMillan. No. 1,326,408; Dec. 30; v. 269; p. 757.
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- Optical telescope. A. A. Michelson. No. 1,305,393; June 3; v. 263; p. 31.
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- Orchard-heater. C. Stollberg. No. 1,304,820; May 27; v. 262; p. 543.
- Orchards, &c. Frost-preventer for. E. S. Cobb. No. 1,317,959; Oct. 7; v. 267; p. 57.
- Orchestrion. G. P. Smith. No. 1,305,942; June 3; v. 263; p. 135.
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- Ordinance. C. H. Caspar. No. 1,310,058; July 15; v. 264; p. 443.
- Ordinance. A. T. Dawson and G. T. Buckham. No. 1,302,519; May 6; v. 262; p. 8.
- Ordinance. A. T. Dawson and G. T. Buckham. No. 1,315,363; Sept. 9; v. 266; p. 173.
- Ordinance. A. T. Dawson and G. T. Buckham. No. 1,318,055; Oct. 7; v. 267; p. 75.
- Ordinance. A. S. Halsey. No. 1,295,740; Feb. 25; v. 259; p. 731.
- Ordinance. Air-blast gear of breech-loading. A. T. Dawson and G. T. Buckham. No. 1,302,521; May 6; v. 262; p. 8.
- Ordinance. Air-recuperator apparatus for storing part of the recoil energy of. A. T. Dawson and J. Horne. No. 1,322,230; Nov. 18; v. 268; p. 467.
- Ordinance. Breech-loading. A. T. Dawson and G. T. Buckham. No. 1,302,520; May 6; v. 262; p. 8.
- Ordinance. Breech-loading. A. T. Dawson and G. T. Buckham. No. 1,302,523; May 6; v. 262; p. 9.
- Ordinance. Breech-loading. T. K. North. No. 1,326,213; Dec. 30; v. 269; p. 721.
- Ordinance. breech mechanism. A. Bremberg. No. 1,318,840; Oct. 14; v. 267; p. 286.
- Ordinance. breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,298,907; Apr. 1; v. 261; p. 67.
- Ordinance. breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,300,356; Apr. 15; v. 261; p. 445.
- Ordinance. breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,304,271; May 20; v. 262; p. 399.
- Ordinance. Breech mechanism of. A. T. Dawson and G. T. Buckham. No. 1,302,517; May 6; v. 262; p. 8.
- Ordinance. breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,326,580; Dec. 30; v. 269; p. 791.
- Ordinance. breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,326,712; Dec. 30; v. 269; p. 815.
- Ordinance-buffers. Regulating device for the flow of liquid in. E. Rimailho. No. 1,318,923; Oct. 14; v. 267; p. 302.
- Ordinance-buffers. Regulating device for flow of liquid in. E. Rimailho. No. 1,323,099; Nov. 25; v. 268; p. 682.
- Ordinance firing mechanism. A. T. Dawson and G. T. Buckham. No. 1,312,107; Aug. 5; v. 265; p. 48.
- Ordinance. Fluid-exploded. J. N. De Winter. No. 1,324,733; Dec. 9; v. 269; p. 330.
- Ordinance. &c. Electric-regulating-switch for use with. J. S. Wilson and W. E. Dalby. No. 1,315,617; Sept. 9; v. 266; p. 218.
- Ordinance equipment. T. L. Loose. No. 1,315,139; Sept. 2; v. 266; p. 121.
- Ordinance. Hang-fire device for breech-loading. A. T. Dawson and G. T. Buckham. No. 1,302,530; May 6; v. 262; p. 10.
- Ordinance. Loading apparatus for. A. T. Dawson and G. T. Buckham. No. 1,302,526; May 6; v. 262; p. 9.
- Ordinance. Lock mechanism of. A. T. Dawson and G. T. Buckham. No. 1,303,638; May 13; v. 262; p. 244.
- Ordinance. Mounting for high-angle. A. T. Dawson and G. T. Buckham. No. 1,318,731; Oct. 14; v. 267; p. 263.
- Ordinance. Percussive firing mechanism of. A. T. Dawson and G. T. Buckham. No. 1,302,529; May 6; v. 262; p. 10.
- Ordinance-piece. F. and J. Niewinski. No. 1,317,987; Oct. 7; v. 267; p. 62.
- Ordinance. Sight for. T. C. Sinclair. No. 1,304,816; May 27; v. 262; p. 542.
- Ordinance sighting apparatus. A. T. Dawson and G. T. Buckham. No. 1,300,353; Apr. 15; v. 261; p. 444.

- Ordinance sighting apparatus. A. T. Dawson and G. T. Buckham. No. 1,300,354; Apr. 15; v. 261; p. 444.
- Ordinance, Sighting apparatus for. A. T. Dawson and G. T. Buckham. No. 1,306,412; June 10; v. 263; p. 254.
- Ordinance, Sighting apparatus for. A. T. Dawson and G. T. Buckham. No. 1,306,413; June 10; v. 263; p. 254.
- Ore, Apparatus for concentrating. F. De Mier. No. 1,308,049; July 1; v. 264; p. 8.
- Ore, Apparatus for the concentration of. J. T. Terry, Jr. No. 1,317,463; Sept. 30; v. 266; p. 662.
- Ore-bearing materials, Machine for separating minerals from. R. P. Park. No. 1,319,790; Oct. 28; v. 267; p. 516.
- Ore bodies by audio-frequency currents, Means for locating. W. L. Carlson and E. C. Hanson. No. 1,325,554; Dec. 23; v. 269; p. 562.
- Ore by flotation, Apparatus for separating. L. G. Rowand. No. 1,312,754; Aug. 12; v. 265; p. 201.
- Ore-charging machine for retorts. J. Nieznalski and J. Belczynski. No. 1,296,998; Mar. 11; v. 260; p. 303.
- Ore-classifier. C. A. Randall. No. 1,313,734; Aug. 19; v. 265; p. 405.
- Ore classifying and separating apparatus. L. H. Falley. No. 1,307,626; June 24; v. 263; p. 541.
- Ore cleaning and concentrating apparatus. L. H. Falley. No. 1,312,028; Aug. 5; v. 265; p. 33.
- Ore-concentrating apparatus. J. D. Wolf. No. 1,310,492; July 22; v. 264; p. 554.
- Ore-concentrating machine. F. E. Small. No. 1,309,307; July 8; v. 264; p. 268.
- Ore-concentrating machine. F. E. Small. No. 1,314,370; Aug. 26; v. 265; p. 561.
- Ore-concentrating machine. F. E. Small. No. 1,314,371; Aug. 26; v. 265; p. 561.
- Ore-concentrating machine. N. A. Stratton. No. 1,306,450; June 10; v. 263; p. 261.
- Ore-concentrating process and apparatus. E. H. Emerson. No. 1,311,882; Aug. 5; v. 265; p. 6.
- Ore-concentrating table. E. J. O'Connell. No. 1,291,616; Jan. 14; v. 258; p. 405.
- Ore-concentrator. J. A. Brent. No. 1,295,960; Mar. 4; v. 260; p. 32.
- Ore-concentrator. G. W. Burnhart. No. 1,295,267; Feb. 25; v. 259; p. 622.
- Ore-concentrator. G. T. Cooley. No. 1,323,157; Nov. 25; v. 268; p. 693.
- Ore-concentrator. C. C. Hebbard. No. 1,323,470; Dec. 2; v. 269; p. 46.
- Ore-concentrator. J. F. Kellogg. No. 1,314,335; Aug. 26; v. 265; p. 554.
- Ore-concentrator. W. F. Walda. No. 1,321,577; Nov. 11; v. 268; p. 294.
- Ore-converting apparatus, Muffled. A. M. Beam. No. 1,299,661; Apr. 8; v. 261; p. 266.
- Ore, Extracting sulfur from. J. Coffeen. No. 1,314,856; Sept. 2; v. 266; p. 71.
- Ore-loader. S. H. Hunt. No. 1,302,046; Apr. 29; v. 261; p. 854.
- Ore, Machine for milling base. J. E. Wootan. No. 1,320,302; Oct. 28; v. 267; p. 611.
- Ore materials from each other, Apparatus for separating. F. B. Flinn. No. 1,314,316; Aug. 26; v. 265; p. 550.
- Ore materials from each other, Apparatus for separating. R. S. Towne and F. B. Flinn. No. 1,317,244; Sept. 30; v. 266; p. 620.
- Ore materials from each other, Separating. R. S. Towne and F. B. Flinn. No. 1,295,817; Feb. 25; v. 259; p. 749.
- Ore or mineral electric furnace apparatus. I. Hechenbleikner. No. 1,299,336; Apr. 1; v. 261; p. 163.
- Ore-pulp, Dewatering, classifying, and rabbling apparatus for. C. W. McArthur. No. 1,304,077; May 20; v. 262; p. 363.
- Ore-reducing means. D. D. de Barros. No. 1,313,274; Aug. 19; v. 265; p. 320.
- Ore-reducing process. B. Q. P. Foss. No. 1,311,645; July 29; v. 264; p. 800.
- Ore-roasting furnace. E. T. Goldthorpe. No. 1,295,729; Feb. 25; v. 259; p. 728.
- Ore-separating apparatus. L. H. Falley. No. 1,322,487; Nov. 18; v. 268; p. 516.
- Ore-separating apparatus. G. McElwain. No. 1,299,848; Apr. 8; v. 261; p. 309.
- Ore-separating apparatus, Flotation. A. L. Blomfield. No. 1,310,051; July 15; v. 264; p. 442.
- Ore-separating device. A. H. Jones. No. 1,326,453; Dec. 30; v. 269; p. 766.
- Ore-separating machine. J. W. Miller. No. 1,306,270; June 10; v. 263; p. 228.
- Ore-separating process. A. J. Moxham. No. 1,294,519; Feb. 18; v. 259; p. 427.
- Ore separation, Grizzly for. W. Ross. No. 1,321,773; Nov. 11; v. 268; p. 331.
- Ore-separator. O. Hawkins. No. 1,312,324; Aug. 5; v. 265; p. 87.
- Ore-separator. E. B. Hoover. No. 1,317,790; Oct. 7; v. 267; p. 25.
- Ore-separator. M. Kraut. No. 1,322,909; Nov. 25; v. 268; p. 646.
- Ore-separator, Magnetic. L. G. Rowand. No. 1,303,396; May 13; v. 262; p. 200.
- Ore-separator, Magnetic. L. G. Rowand. No. 1,303,398; May 13; v. 262; p. 201.
- Ore, Smelting and refining. L. Mambourg. No. 1,313,309; Aug. 19; v. 265; p. 326.
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- Ore-treating apparatus. A. L. Blomfield. No. 1,294,864; Feb. 18; v. 259; p. 507.
- Ore-treating apparatus. T. J. Pennington. No. 1,294,531; Feb. 18; v. 259; p. 429.
- Ore-treating kiln. W. Winkelman. No. 1,319,939; Oct. 28; v. 267; p. 544.
- Ore-washer. A. M. Gow. No. 1,314,797; Sept. 2; v. 266; p. 61.
- Ore-washer, Magnetic. E. W. Davis. No. 1,317,557; Sept. 30; v. 266; p. 680.
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- Ores and metals in reverberatory furnaces, Treating. G. C. Crason. No. 1,296,478; Mar. 4; v. 260; p. 147.
- Ores and minerals, Treatment of. G. M. Willis. No. 1,313,970; Aug. 26; v. 265; p. 484.
- Ores and raw-ore products, Differential flotation concentration of sulfid. C. C. Freeman. No. 1,301,551; Apr. 22; v. 261; p. 727.
- Ores, Apparatus for fusing sulfur from low-grade. P. P. Austin. No. 1,315,940; Sept. 16; v. 266; p. 291.
- Ores, Apparatus for reclaiming precious metals from. L. F. Conant. No. 1,313,134; Oct. 7; v. 267; p. 90.
- Ores, Apparatus for roasting or drying. J. Molnar. No. 1,296,834; Mar. 11; v. 260; p. 265.
- Ores, Apparatus for the concentration of. J. M. Hyde. No. 1,296,190; Mar. 4; v. 260; p. 86.
- Ores, Apparatus for treating. C. Cornwell. No. 1,316,769; Sept. 23; v. 266; p. 496.
- Ores, Apparatus for separating or concentrating. D. Cole. No. 1,319,208; Oct. 21; v. 267; p. 383.
- Ores, Clearing clayey. E. F. Goitra, T. S. Maffitt, J. D. Dana, and R. W. Erwin. No. 1,301,684; Apr. 22; v. 261; p. 753.
- Ores, Concentration of. E. Edser and H. L. Sulman. No. 1,326,855; Dec. 30; v. 269; p. 842.
- Ores, Concentration of. H. V. Seale and W. Shellshear. No. 1,311,919; Aug. 5; v. 265; p. 13.
- Ores, Concentration of. H. V. Seale and W. Shellshear. No. 1,311,920; Aug. 5; v. 265; p. 13.
- Ores, Electric furnace for smelting. A. E. Bookwalter. No. 1,297,641; Mar. 18; v. 260; p. 469.
- Ores for production of metal and of potassium compounds, Treatment of. C. Catlett. No. 1,311,043; July 22; v. 264; p. 656.
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- Ores, Hydraulic separator for crushed. H. R. Wahl. No. 1,306,361; June 10; v. 263; p. 245.
- Ores or concentrates, Roasting. U. C. Tainton. No. 1,310,455; July 22; v. 264; p. 547.
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- Ores, Process and apparatus for extracting. R. Wallner. No. 1,326,125; Dec. 23; v. 269; p. 668.
- Ores, Purifying zirconium. W. R. Loveman. No. 1,297,371; Mar. 18; v. 260; p. 413.
- Ores, Recovering quicksilver from its. H. W. Gould. No. 1,315,663; Sept. 9; v. 266; p. 225.
- Ores, sands, &c., Apparatus for dewatering and separating. L. H. Falley. No. 1,312,027; Aug. 5; v. 265; p. 33.
- Ores, Separation of mixed sulfid. R. T. D. Williams. No. 1,300,516; Apr. 15; v. 261; p. 479.
- Ores, Separation of molybdenum. T. R. Forland. No. 1,308,735; July 1; v. 264; p. 134.
- Ores, Sintering. A. H. Richards. No. 1,292,059; Jan. 21; v. 258; p. 546.
- Ores, Sulfidation and flotation of. R. F. Bacon. No. 1,312,668; Aug. 12; v. 265; p. 185.
- Ores, Treating. J. Irving. No. 1,296,523; Mar. 4; v. 260; p. 158.
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- Organ-stop action, Combination. J. S. Allen. No. 1,311,865; Aug. 5; v. 265; p. 3.
- Organ-valve, Electropneumatic. G. H. Chapman. No. 1,302,511; May 6; v. 262; p. 7.
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- Organs, Reservoir and controlling-valve for. I. H. Spencer. No. 1,296,872; Mar. 11; v. 260; p. 274.
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- Ornamental article and producing same. J. A. Fenton. No. 1,302,344; Apr. 29; v. 261; p. 909.
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- Orthodontia appliance. J. L. Young. No. 1,304,722; May 27; v. 262; p. 525.
- Orthodontia appliance. J. L. Young. No. 1,304,723; May 27; v. 262; p. 525.
- Orthodontia appliance. J. L. Young. No. 1,323,141; Nov. 25; v. 268; p. 690.
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- Orthodontic implement. E. H. Angle. No. 1,299,102; Apr. 1; v. 261; p. 111.
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- Outflow-regulator. H. Nielsen. No. 1,296,208; Mar. 4; v. 260; p. 90.
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- Oven, Cereal-sprouting. S. M. Miller. No. 1,300,992; Apr. 15; v. 261; p. 580.
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- Oven, Coke. H. W. Buhler. No. 1,319,841; Oct. 28; v. 267; p. 825.
- Oven, Coke. H. W. Buhler. No. 1,319,842; Oct. 28; v. 267; p. 826.
- Oven, Convertible core. E. J. Moore. No. 1,301,075; Apr. 15; v. 261; p. 600.
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- Oven-doors and the like, Fastening means for. L. S. Chadwick and C. C. Rehmer. No. 1,310,823; July 22; v. 264; p. 615.
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- Oven mechanism. V. H. Gottschalk. No. 1,295,478; Feb. 25; v. 259; p. 670.
- Oven or furnace, Gas. J. Gallimore and D. Cook. No. 1,323,041; Nov. 25; v. 268; p. 671.
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- Oven principally for domestic purposes. J. D. Jackson. No. 1,314,520; Sept. 2; v. 266; p. 8.
- Oven, Reflex coke. A. Roberts. No. 1,304,907; May 27; v. 262; p. 559.
- Oven, Regenerative coke. A. Roberts. No. 1,313,207; Aug. 12; v. 265; p. 290.
- Oven, Regenerative coke. A. Roberts. No. 1,313,208; Aug. 12; v. 265; p. 290.
- Oven, Rotary baking. M. J. Podzanski. No. 1,318,460; Oct. 14; v. 267; p. 214.
- Oven structure for gas-ranges. C. V. Roberts. No. 1,318,802; Oct. 14; v. 267; p. 278.
- Oven-ventilator. F. Kirchhoff, Sr. No. 1,308,789; July 8; v. 264; p. 171.
- Oven, Vertical coke. A. Putsch. No. 1,292,874; Jan. 28; v. 258; p. 762.
- Oven-wall. G. A. Young. No. 1,312,663; Aug. 12; v. 265; p. 184.
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- Ovens, Baffle-plate for. A. C. Mott, Jr. No. 1,310,872; July 22; v. 264; p. 624.
- Ovens, Charging apparatus for continuous vertical coke and gas. J. Pieters. No. 1,308,641; July 1; v. 264; p. 116.
- Ovens, Gas-burner for coal. H. Lange. No. 1,306,917; June 17; v. 263; p. 280.
- Ovens, Heat and damper regulator for gas. B. E. Meacham. No. 1,300,990; Apr. 15; v. 261; p. 579.
- Ovens, Oil-burner for bake. W. F. Yost. No. 1,305,679; June 3; v. 263; p. 85.
- Overall jacket or waist. J. S. Elliott. No. 1,300,938; Apr. 15; v. 261; p. 568.
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- Overalls. A. W. Carlson. No. 1,293,700; Feb. 11; v. 259; p. 199.
- Overalls. E. Maddex. No. 1,325,099; Dec. 16; v. 269; p. 460.
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- Overcoming insomnia, Means for. A. O. Darling. No. 1,296,930; Mar. 11; v. 260; p. 288.
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- Overhead carrier. A. H. Neller. No. 1,291,606; Jan. 14; v. 258; p. 402.
- Overload device. H. R. Canfield. No. 1,293,697; Feb. 11; v. 259; p. 198.
- Overseaming-machine. S. W. Avis. No. 1,319,262; Oct. 21; v. 267; p. 392.
- Overseaming-machine. N. D. Clark. No. 1,324,541; Dec. 9; v. 269; p. 295.
- Overseaming-machine. J. R. Moffatt. No. 1,300,449; Apr. 15; v. 261; p. 464.
- Overshoe attachment. W. H. Tillson. No. 1,308,206; July 1; v. 264; p. 37.
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- Overshoe-retainer. V. E. Langhardt. No. 1,302,677; May 6; v. 262; p. 37.
- Overshoes, Device for removing. G. Chromy. No. 1,290,911; Jan. 14; v. 258; p. 242.
- Overshoes, Non-slipping attachment for. W. A. Mintzloff. No. 1,303,571; May 13; v. 262; p. 232.
- Oversuit. J. H. Hollander. No. 1,298,043; Mar. 25; v. 260; p. 581.
- Ownership-indicator. A. W. F. Stenzel. No. 1,317,763; Oct. 7; v. 267; p. 20.
- Oxid, Apparatus for producing aluminum. R. S. Sherwin. No. 1,314,709; Sept. 2; v. 266; p. 45.
- Oxid, Making titanium. E. R. Darling. No. 1,315,011; Sept. 2; v. 266; p. 99.

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- Oxid, Manufacture of barium. H. Fleck. No. 1,326,332; Dec. 30; v. 269; p. 743.
- Oxid, Producing aluminum. R. S. Sherwin. No. 1,314,710; Sept. 2; v. 266; p. 45.
- Oxid, Production of aluminum. R. S. Sherwin. No. 1,315,045; Sept. 2; v. 266; p. 105.
- Oxid, Purifying nitrous. A. R. Warner. No. 1,315,354; Sept. 9; v. 266; p. 171.
- Oxids, Making metallic. T. J. Vollkommer. No. 1,300,522; Apr. 15; v. 261; p. 480.
- Oxids of bismuth, Making. C. Ellis. No. 1,318,336; Oct. 7; v. 267; p. 129.
- Oxidation of rolled material, Method of and means for preventing. B. P. Hazeltine. No. 1,295,986; Mar. 4; v. 260; p. 38.
- Oxygen and hydrogen, Electrolytic cell for production of. E. Geeraerd. No. 1,308,704; July 1; v. 264; p. 127.
- Oxygen-cell. J. H. Fisher. No. 1,322,417; Nov. 18; v. 268; p. 502.
- Oxygen compounds, Producing refined titanium. P. Farup. No. 1,325,561; Dec. 23; v. 269; p. 563.
- Ozone generation, Apparatus for. W. J. Knox and J. P. Mallett. No. 1,312,484; Aug. 5; v. 265; p. 119.
- Ozone-generator. A. E. Walden. No. 1,316,342; Sept. 16; v. 266; p. 366.
- Ozonizer. E. D. Klots. No. 1,322,907; Nov. 25; v. 268; p. 645.
- Ozonizing apparatus. R. R. Bayeux and J. Richard. No. 1,326,631; Dec. 30; v. 269; p. 800.
- Ozonizing substances. A. J. Moisant. No. 1,297,716; Mar. 18; v. 260; p. 486.
- Package. P. S. Chess. No. 1,312,611; Aug. 12; v. 265; p. 174.
- Package. C. Errett. No. 1,314,134; Aug. 26; v. 265; p. 515.
- Package. T. J. McKeogh. No. 1,313,397; Aug. 19; v. 265; p. 342.
- Package. S. Mortenson. No. 1,292,628; Jan. 28; v. 258; p. 704.
- Package. W. M. Wheildon. No. 1,303,137; May 6; v. 262; p. 126.
- Package. C. P. Winter. No. 1,302,116; Apr. 29; v. 261; p. 866.
- Package and making same, Merchandise. B. F. Gossom. No. 1,310,185; July 15; v. 264; p. 466.
- Package and packing-box. J. D. McLaurin. No. 1,303,489; May 13; v. 262; p. 217.
- Package-carrier. P. J. Garrison. No. 1,306,849; June 17; v. 263; p. 367.
- Package-carrier. H. C. Goodrich. No. 1,291,479; Jan. 14; v. 258; p. 373.
- Package-elevator, Portable. T. J. Alexander. No. 1,298,852; Apr. 1; v. 261; p. 54.
- Package-fastener. A. H. Swett. No. 1,309,492; July 8; v. 264; p. 302.
- Package for inclosing and displaying articles. A. J. Korfst. No. 1,315,516; Sept. 9; v. 266; p. 200.
- Package, Merchandizing-box. L. J. Boerlin. No. 1,306,574; June 10; v. 263; p. 283.
- Package-receptacle. H. J. Schlacks. No. 1,292,092; Jan. 21; v. 258; p. 554.
- Package, Sealed-container tape. C. H. Crowell. No. 1,322,180; Nov. 18; v. 268; p. 457.
- Package-tie. J. C. Beddingfield. No. 1,312,015; Aug. 5; v. 265; p. 30.
- Package-tie. H. S. Brill. No. 1,298,877; Apr. 1; v. 261; p. 60.
- Package-tie. A. C. Cleveland. No. 1,299,681; Apr. 8; v. 261; p. 271.
- Package-tie. L. H. Connolly. No. 1,322,410; Nov. 18; v. 268; p. 501.
- Package-tie. A. J. Downing. No. 1,294,886; Feb. 18; v. 259; p. 513.
- Package-tie. W. C. Everitt. No. 1,311,764; July 29; v. 264; p. 823.
- Package-tie. H. L. Gerhart. No. 1,311,064; July 22; v. 264; p. 660.
- Package-tie. W. B. Hanner and J. W. Adams. No. 1,322,168; Nov. 18; v. 268; p. 455.
- Package-tie. C. T. Rosner. No. 1,298,405; Mar. 25; v. 260; p. 658.
- Package-tie. O. K. Sørensen and A. J. P. Østergaard. No. 1,300,502; Apr. 15; v. 261; p. 476.
- Package-tie. G. W. Stout. No. 1,294,321; Feb. 11; v. 259; p. 345.
- Package-tie. G. W. Stout. No. 1,305,753; June 3; v. 263; p. 99.
- Package-tie. J. L. Klein. No. 1,320,765; Nov. 4; v. 268; p. 76.
- Package-tying device. H. A. Zehrung. No. 1,311,482; July 29; v. 264; p. 770.
- Packages, Device for tying. G. A. Blake. No. 1,309,506; July 8; v. 264; p. 304.
- Packages and inclosing same in preformed containers, Apparatus for wrapping. H. de Escobales. No. 1,323,163; Nov. 25; v. 268; p. 694.
- Packages, Machine for automatically depositing articles in. J. Prock. No. 1,298,389; Mar. 25; v. 260; p. 654.
- Packages, Method of and means for sealing. S. C. Cary. No. 1,309,115; July 8; v. 264; p. 233.
- Packaging bricks for transportation. W. T. Hookey. No. 1,307,255; June 17; v. 263; p. 441.
- Packaging ice-cream. J. B. Dalton. No. 1,313,793; Aug. 19; v. 265; p. 416.
- Packaging-machine. H. Y. Armstrong. No. 1,295,951; Mar. 4; v. 260; p. 30.
- Packaging-machine. H. de Escobales. No. 1,309,122; July 8; v. 264; p. 234.
- Packaging-receptacle. T. F. Berrill and J. E. Frey. No. 1,317,541; Sept. 30; v. 266; p. 677.
- Packer, Ensilage. T. Wanstrath. No. 1,308,129; July 1; v. 264; p. 23.
- Packet, Life-insurance-computing. G. A. Newkirk. No. 1,314,146; Aug. 26; v. 265; p. 517.
- Packeting-wrapper. M. L. Lancaster. No. 1,316,728; Sept. 23; v. 266; p. 488.
- Packing. H. Anathor-Henriksen. No. 1,324,775; Dec. 16; v. 269; p. 401.
- Packing. J. T. Crane. No. 1,316,772; Sept. 23; v. 266; p. 496.
- Packing. W. J. A. London. No. 1,316,964; Sept. 23; v. 266; p. 531.
- Packing. G. F. Mustor. No. 1,313,201; Aug. 12; v. 265; p. 289.
- Packing. G. F. Mustor. No. 1,313,202; Aug. 12; v. 265; p. 289.
- Packing. R. H. Rice. No. 1,326,690; Dec. 30; v. 269; p. 811.
- Packing and boxing machine, Sugar. J. Spreckels, Jr., and R. Laborda. No. 1,308,266; July 1; v. 264; p. 47.
- Packing and making same, Plastic. A. H. Schlaegel. No. 1,324,763; Dec. 9; v. 269; p. 336.
- Packing and manufacturing the same. C. E. Vance and J. A. Vetter. No. 1,295,241; Feb. 25; v. 259; p. 616.
- Packing and valve, Combination. R. D. Bradford. No. 1,303,763; May 13; v. 262; p. 268.
- Packing articles, Machine for. E. D. Anderson. No. 1,313,974; Aug. 26; v. 265; p. 485.
- Packing-box. C. E. Roberts. No. 1,292,883; Jan. 28; v. 258; p. 764.
- Packing box or carton. J. G. Reber. (Reissue.) No. 1,471,6; Aug. 19; v. 265; p. 433.
- Packing, Brake-cylinder piston. H. C. Loudenbeck. No. 1,314,143; Aug. 26; v. 265; p. 517.
- Packing case, Ammunition. J. S. Peoples. No. 1,306,312; June 10; v. 263; p. 236.
- Packing-case for carboys. W. G. Seabold. No. 1,320,713; Nov. 4; v. 268; p. 66.
- Packing, Cup-leather. W. P. Krawse. No. 1,313,997; Aug. 26; v. 265; p. 489.
- Packing composition to can-covers, Machine for applying seam. J. Brenzinger. No. 1,296,474; Mar. 4; v. 260; p. 146.
- Packing disk-like articles in tubular containers, Machine for. F. E. Buxton. No. 1,319,922; Oct. 28; v. 267; p. 540.
- Packing for piston and other rods, Metallic. A. D. Morris. No. 1,309,075; July 8; v. 264; p. 225.
- Packing for pistons and piston-valves. J. T. Wilson. No. 1,299,085; Apr. 1; v. 261; p. 108.
- Packing for pistons, Metallic. N. S. Williams. No. 1,290,819; Jan. 7; v. 258; p. 194.
- Packing for piston-rods or other fluid-engines. T. M. Mallon. No. 1,303,490; May 13; v. 262; p. 218.
- Packing for piston-rods, plungers, pistons, &c. N. B. Miller. No. 1,313,320; Aug. 19; v. 265; p. 327.
- Packing for rotary engines. G. R. Inshaw. No. 1,292,324; Jan. 21; v. 258; p. 610.
- Packing-holder. F. A. Laraway. No. 1,311,450; July 29; v. 264; p. 764.
- Packing-machine. H. G. Monkhorst. No. 1,324,166; Dec. 9; v. 269; p. 221.
- Packing-machine, Automatic. C. F. Smith. No. 1,293,625; Feb. 4; v. 259; p. 151.
- Packing, Making piston. H. C. Loudenbeck. No. 1,314,142; Aug. 26; v. 265; p. 516.
- Packing, Manufacturing. F. E. Payne. No. 1,325,955; Dec. 23; v. 269; p. 636.
- Packing material for journal-boxes and the like. C. T. Ripley. No. 1,298,794; Apr. 1; v. 261; p. 42.
- Packing mechanism for cotton-presses. M. C. Kennerly. No. 1,321,105; Nov. 11; v. 268; p. 204.
- Packing, Metallic. C. C. Anderson. No. 1,320,307; Oct. 28; v. 267; p. 612.
- Packing, Metallic. M. Harris. No. 1,290,985; Jan. 14; v. 258; p. 258.
- Packing, Metallic. E. P. Hildebrand. No. 1,317,294; Sept. 30; v. 266; p. 630.
- Packing, Metallic. J. G. Strook. No. 1,298,117; Mar. 25; v. 260; p. 597.
- Packing, Metallic piston-rod. J. Rebsamen. No. 1,321,475; Nov. 11; v. 268; p. 275.
- Packing-pad. H. Oppenorth. No. 1,324,132; Dec. 9; v. 269; p. 215.
- Packing, Piston. R. Esnault-Pelterie. No. 1,292,392; Jan. 21; v. 258; p. 625.
- Packing, Piston. H. S. Rosser. No. 1,300,197; Apr. 8; v. 261; p. 385.
- Packing, Piston-rod. I. H. Goldman. No. 1,303,883; May 20; v. 262; p. 328.
- Packing-rack. M. Marx. No. 1,320,335; Oct. 28; v. 267; p. 617.
- Packing retainer, Journal-box. J. McMullen. No. 1,303,933; May 20; v. 262; p. 337.



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- Packing-ring. C. R. Bryant. No. 1,309,609; July 15; v. 264; p. 362.
- Packing-ring. P. M. Freer. No. 1,311,159; July 29; v. 264; p. 710.
- Packing-ring. H. Keller. No. 1,326,064; Dec. 23; v. 269; p. 657.
- Packing-ring. H. Kistner. No. 1,300,623; Apr. 15; v. 261; p. 501.
- Packing-ring. A. J. Mummert and J. T. Woodbridge. No. 1,298,548; Mar. 25; v. 260; p. 689.
- Packing-ring. P. R. Peterson. No. 1,307,696; June 24; v. 263; p. 554.
- Packing-ring. L. E. Prescott. No. 1,294,829; Feb. 18; v. 259; p. 499.
- Packing-ring. J. J. Richter. No. 1,316,464; Sept. 16; v. 266; p. 389.
- Packing-ring expander. M. F. Cox. No. 1,316,534; Sept. 16; v. 266; p. 404.
- Packing-ring, Piston. R. J. Torrance. No. 1,294,199; Feb. 11; v. 259; p. 317.
- Packing-rings, Apparatus for operating upon split. G. Woodvine. No. 1,318,194; Oct. 7; v. 267; p. 102.
- Packing-rings for pistons and the like, Manufacture of spring. G. Woodvine. No. 1,296,580; Mar. 4; v. 260; p. 171.
- Packing-rings, Machine for making. J. B. Wenzel. No. 1,322,663; Nov. 25; v. 268; p. 600.
- Packing-rings, Making. E. R. Norman. No. 1,292,633; Jan. 28; v. 258; p. 705.
- Packing-rings, Making. J. J. Richter. No. 1,316,463; Sept. 16; v. 266; p. 389.
- Packing-rings, Manufacturing. J. C. Stocks. No. 1,315,798; Sept. 9; v. 266; p. 250.
- Packing, Rod. L. J. Farland and L. F. Robert. No. 1,307,901; June 24; v. 263; p. 592.
- Packing, Rod. E. Horn. No. 1,321,919; Nov. 18; v. 268; p. 409.
- Packing, Rod. B. C. McClure. No. 1,321,930; Nov. 18; v. 268; p. 411.
- Packing, Rod. B. C. McClure. No. 1,325,876; Dec. 23; v. 269; p. 622.
- Packing, Rod. B. C. McClure. No. 1,325,950; Dec. 23; v. 269; p. 635.
- Packing, Rod. P. J. Nawn. No. 1,320,567; Nov. 4; v. 268; p. 39.
- Packing, Rod and shaft. H. P. White. No. 1,326,242; Dec. 30; v. 269; p. 727.
- Packing, Shell. I. Ludlow. No. 1,302,392; Apr. 29; v. 261; p. 919.
- Packing structure. P. H. Mack. No. 1,299,368; Apr. 1; v. 261; p. 171.
- Packings, Manufacture of piston. F. W. Lanchester. (Reissue.) No. 14,644; May 6; v. 262; p. 143.
- Packings, Releasing and loss-preventing means for cradle. H. N. Jansen. No. 1,299,951; Apr. 8; v. 261; p. 331.
- Pad: See—
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| Account-pad.        | Sadiron wax pad.     |
| Automobile bed-pad. | Shoe-tongue pad.     |
| Eraser-pad.         | Shoulder-pad.        |
| Inking-pad.         | Spring-pad.          |
| Ironing-pad.        | Type-writer pad.     |
| Knee-pad.           | Vehicle-top bow-pad. |
| Packing-pad.        | Woven garter-pad.    |
| Pedal-pad.          | Writing-pad.         |
| Recoil-pad.         |                      |
- Pad. G. W. Reyer. No. 1,320,918; Nov. 4; v. 268; p. 106.
- Pad-facing machine. L. I. Yeomans. No. 1,309,385; July 8; v. 264; p. 282.
- Pad, stamp, and penholder. H. S. Folger and T. Ross. No. 1,300,153; Apr. 8; v. 261; p. 375.
- Paddle and tongs, Combination. D. W. Inman. No. 1,308,359; July 1; v. 264; p. 64.
- Paddle-wheel. F. J. Lland. No. 1,305,727; June 3; v. 263; p. 94.
- Padlock. S. G. Calvelage. No. 1,322,531; Nov. 25; v. 268; p. 575.
- Padlock. A. W. Dowe. No. 1,326,394; Dec. 30; v. 269; p. 755.
- Padlock. J. S. Kirby. No. 1,301,572; Apr. 22; v. 261; p. 731.
- Padlock. F. D. Luckey. No. 1,300,983; Apr. 15; v. 261; p. 578.
- Padlock. F. Soley. No. 1,300,037; Apr. 8; v. 261; p. 349.
- Padlock. S. Syder and J. Lescinski. No. 1,307,158; June 17; v. 263; p. 423.
- Padlock. H. G. Voight. No. 1,308,458; July 1; v. 264; p. 82.
- Padlock. W. Zadorozny. No. 1,308,319; July 1; v. 264; p. 57.
- Padlock, Combination. T. A. Goode. No. 1,307,442; June 24; v. 263; p. 509.
- Padlock, Combination. D. A. McKay. No. 1,295,543; Feb. 25; v. 259; p. 686.
- Padlock, Combination. R. A. Neumann. No. 1,293,879; Feb. 11; v. 259; p. 241.
- Padlock, Combination. S. Shaler. No. 1,314,431; Aug. 26; v. 265; p. 573.
- Padlock. S. A. Wells. No. 1,314,775; Sept. 2; v. 266; p. 56.
- Padlock-guard. J. E. Matthews. No. 1,291,993; Jan. 21; v. 258; p. 529.
- Padlock, Keyless. J. E. Grisamore. No. 1,306,427; June 10; v. 263; p. 257.
- Padlock, Keyless. T. Hewitt. No. 1,316,037; Sept. 16; v. 266; p. 309.
- Padlock, Keyless. R. Richardson. No. 1,310,930; July 22; v. 264; p. 634.
- Padlock, Keyless. F. C. Rozycki. No. 1,310,634; July 22; v. 264; p. 580.
- Padlock, Permutation. C. E. Anable. No. 1,312,939; Aug. 12; v. 265; p. 237.
- Padlock, Permutation. F. L. Eaton. No. 1,308,487; July 1; v. 264; p. 87.
- Padlock, Permutation. P. Lo Cascio. No. 1,312,790; Aug. 12; v. 265; p. 208.
- Pail. E. B. Strange. No. 1,296,132; Mar. 4; v. 260; p. 73.
- Pail and brush-container, Painter's. R. C. Tucker. No. 1,304,415; May 20; v. 262; p. 428.
- Pail, Berry. W. S. Jacobson. No. 1,307,256; June 17; v. 263; p. 441.
- Pail-bottom fastener. H. L. Staley and W. B. Simmons. No. 1,297,411; Mar. 18; v. 260; p. 421.
- Pail cover and strainer. J. F. Anvelink. No. 1,312,428; Aug. 5; v. 265; p. 108.
- Pail cover, Garbage. M. A. Dandrow. No. 1,305,197; May 27; v. 262; p. 614.
- Pail holder, Milk. J. H. Ormandy. No. 1,326,086; Dec. 23; v. 269; p. 661.
- Pail, Lunch. C. M. O'Neel. No. 1,309,541; July 8; v. 264; p. 312.
- Pail, Strainer milk. F. Willard. No. 1,322,384; Nov. 18; v. 268; p. 496.
- Pails and the like, Hasp for dinner. C. Neidhammer. No. 1,315,568; Sept. 9; v. 266; p. 209.
- Paint. R. R. Adams. No. 1,317,469; Sept. 30; v. 266; p. 663.
- Paint. E. B. Barnes. No. 1,311,945; Aug. 5; v. 265; p. 17.
- Paint. W. E. Wright. No. 1,308,884; July 8; v. 264; p. 189.
- Paint and coating and making same, Fireproof. J. E. Schneider. No. 1,317,225; Sept. 30; v. 266; p. 616.
- Paint-bodies, Making. E. T. Goldthorpe. No. 1,295,730; Feb. 25; v. 259; p. 729.
- Paint-bucket hanger. R. R. Hayes. No. 1,308,066; July 1; v. 264; p. 11.
- Paint composition. A. H. Applegreen. No. 1,314,301; Aug. 26; v. 265; p. 548.
- Paint cup and scraper, Renewable. F. H. Shevalier. No. 1,293,951; Feb. 11; v. 259; p. 257.
- Paint-dispensing can. F. J. Larson. No. 1,323,875; Dec. 2; v. 269; p. 122.
- Paint fumes, Apparatus for removing. L. A. Safford. No. 1,316,745; Sept. 23; v. 266; p. 492.
- Paint or varnish and making same. M. Darrin. No. 1,315,658; Sept. 9; v. 266; p. 225.
- Paint or varnish and making same. F. W. Sperr, Jr., and M. Darrin. No. 1,292,907; Jan. 28; v. 258; p. 770.
- Paint or varnish and making same. F. W. Sperr, Jr., and M. Darrin. No. 1,292,908; Jan. 28; v. 258; p. 770.
- Paint or varnish and paint or varnish ingredient. M. Darrin. No. 1,296,776; Mar. 11; v. 260; p. 252.
- Paint package, Ceramic. F. L. Sleeper. No. 1,320,217; Dec. 30; v. 269; p. 722.
- Paint package, Water-color. J. P. Mentzer. No. 1,292,350; Jan. 21; v. 258; p. 616.
- Paint-receptacles, &c., Apparatus for hoisting and lowering. C. F. Huff. No. 1,315,502; Sept. 9; v. 266; p. 198.
- Paint set. H. Berson. No. 1,295,956; Mar. 4; v. 260; p. 31.
- Painter's striping mechanism. V. Jansen. No. 1,305,545; June 3; v. 263; p. 59.
- Painting apparatus. A. B. McDole. No. 1,311,827; July 29; v. 264; p. 834.
- Painting-machine. C. L. Burdick. No. 1,313,670; Aug. 19; v. 265; p. 393.
- Paintings or like pictures, Imitation of oil. R. Sauber. No. 1,293,942; Feb. 11; v. 259; p. 256.
- Pallet setter-gage. J. G. Grainger. No. 1,316,299; Sept. 16; v. 266; p. 358.
- Pan: See—
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| Ash-pan.         | Frying-pan.              |
| Bake-pan.        | Gold-pan.                |
| Baking-pan.      | Locomotive ash-pan.      |
| Basting-pan.     | Measuring-pan.           |
| Red-pan.         | Omelet-pan.              |
| Dustpan.         | Sewing-machine drip-pan. |
| Evaporating-pan. |                          |
- Pan. M. D. Olsen. No. 1,294,528; Feb. 18; v. 259; p. 429.
- Pan cleaning and greasing machine. M. D. Koenig and J. H. Weichel. No. 1,295,762; Feb. 25; v. 259; p. 736.
- Pan cover, Frying. S. H. English. No. 1,295,716; Feb. 25; v. 259; p. 726.
- Pan lifter and strainer, Combined. N. S. Beebe. No. 1,325,613; Dec. 23; v. 269; p. 572.
- Pan lifter, Hot. F. T. Conley. No. 1,320,318; Oct. 28; v. 267; p. 614.
- Panel-board. E. A. Olley. No. 1,307,019; June 17; v. 263; p. 399.

- Panel-board. C. D. Platt. No. 1,321,144; Nov. 11; v. 268; p. 211.
- Panel-board. H. F. Starrett. No. 1,321,486; Nov. 11; v. 268; p. 277.
- Panel-board. H. F. Starrett. No. 1,321,488; Nov. 11; v. 268; p. 277.
- Panel-board. H. F. Starrett. No. 1,321,489; Nov. 11; v. 268; p. 277.
- Panel-board and panel-board construction. H. F. Starrett. No. 1,294,185; Feb. 11; v. 259; p. 313.
- Panel-board and panel-board construction. H. F. Starrett. No. 1,325,052; Dec. 16; v. 269; p. 451.
- Panel-board construction. E. A. Olley. No. 1,296,999; Mar. 11; v. 260; p. 304.
- Panel-board construction. E. A. Olley. No. 1,303,582; May 13; v. 262; p. 234.
- Panel-board construction. E. A. Olley. No. 1,308,607; July 1; v. 264; p. 110.
- Panel-board construction. H. F. Starrett. No. 1,321,487; Nov. 11; v. 268; p. 277.
- Panel-board frames, Corner-iron for. H. F. Starrett. No. 1,290,394; Jan. 7; v. 258; p. 91.
- Panel, Cabinet-type safety switch. W. F. O'Neill. No. 1,313,555; Aug. 19; v. 265; p. 372.
- Panel, Hollow. W. H. Doble. No. 1,296,272; Mar. 4; v. 260; p. 104.
- Panel or covering, Ornamental. J. K. Shaw. No. 1,312,056; Aug. 5; v. 265; p. 38.
- Panel-retaining means. L. E. Ruehlmann. No. 1,312,925; Aug. 12; v. 265; p. 235.
- Panning-machine. J. Balcells and J. Servitje. No. 1,308,216; July 1; v. 264; p. 39.
- Paper and compound and making, Stencil. E. Thomas. No. 1,293,983; Feb. 11; v. 259; p. 266.
- Paper and fiber twine, Combination. G. L. Rice. No. 1,320,920; Nov. 4; v. 268; p. 106.
- Paper and making the same, Reinforced. E. H. Angier and L. G. Miller. No. 1,291,709; Jan. 21; v. 258; p. 457.
- Paper and making the same, Transparent. W. E. Swift. No. 1,302,100; Apr. 29; v. 261; p. 863.
- Paper and other fabric rewinding machine. H. B. Vannote and S. A. Neidich. No. 1,294,576; Feb. 18; v. 259; p. 439.
- Paper and other materials, Machine for testing. J. W. Webb. No. 1,317,468; Sept. 30; v. 266; p. 663.
- Paper and other tube machines, Cutting mechanism applicable to. A. E. Shirlow and H. W. Hoarse. No. 1,325,173; Dec. 16; v. 269; p. 474.
- Paper and similar cup. H. Hill. No. 1,310,698; July 22; v. 264; p. 592.
- Paper and the like, Folded sheet of. W. Y. Irwin. No. 1,307,443; June 24; v. 263; p. 509.
- Paper and the like, Toilet. G. T. Johnson. No. 1,316,041; Sept. 16; v. 266; p. 310.
- Paper, Apparatus for conditioning printed. P. Aitchison. No. 1,306,456; June 10; v. 263; p. 262.
- Paper, Apparatus for watermarking. C. G. Oberley. No. 1,325,529; Dec. 23; v. 269; p. 558.
- Paper articles, producing colored decorations on. L. Bachman. No. 1,320,524; Nov. 4; v. 268; p. 31.
- Paper bag. J. Perry. No. 1,298,252; Mar. 25; v. 260; p. 626.
- Paper bag. J. M. Smith. No. 1,292,902; Jan. 28; v. 258; p. 769.
- Paper-bag-dispensing device. W. O. Albog. No. 1,293,291; Feb. 4; v. 259; p. 75.
- Paper-bag holder. E. Abdo. No. 1,315,272; Sept. 9; v. 266; p. 156.
- Paper-bag making machine. P. L. Bartholomew. No. 1,298,276; Mar. 25; v. 260; p. 632.
- Paper-bag-making machine. J. Duval. No. 1,325,466; Dec. 16; v. 269; p. 527.
- Paper barrel. R. S. Bolger. No. 1,302,128; Apr. 29; v. 261; p. 869.
- Paper-board and the like, Creasing. W. E. Naugler. No. 1,302,831; May 6; v. 262; p. 66.
- Paper-board machine, Corrugated. J. Huether. No. 1,294,348; Feb. 11; v. 259; p. 351.
- Paper-board, &c., Machine for packing articles of. F. E. Beam. No. 1,313,573; Aug. 19; v. 265; p. 375.
- Paper bottle. G. R. Penn. No. 1,315,394; Sept. 9; v. 266; p. 178.
- Paper box. W. R. Allen. No. 1,298,635; Apr. 1; v. 261; p. 3.
- Paper box. G. Diamond. No. 1,315,476; Sept. 9; v. 266; p. 194.
- Paper box. G. H. Dodge. No. 1,323,170; Nov. 25; v. 268; p. 696.
- Paper box. H. L. Myers. No. 1,310,765; July 22; v. 264; p. 604.
- Paper box. W. Pente. No. 1,299,503; Apr. 8; v. 261; p. 230.
- Paper-box blanks, Machine for making. J. Ilren and C. Eisenlohr. No. 1,293,782; Feb. 11; v. 259; p. 219.
- Paper box, Folding. A. E. Bueschel. No. 1,296,760; Mar. 11; v. 260; p. 249.
- Paper box, Folding. A. Gordon. No. 1,302,361; Apr. 29; v. 261; p. 912.
- Paper box, Folding. R. R. Richardson. No. 1,301,171; Apr. 22; v. 261; p. 654.
- Paper-box-forming machine. G. H. Bartlett. No. 1,305,511; June 3; v. 263; p. 53.
- Paper-box member. G. Diamond. No. 1,310,006; July 15; v. 264; p. 434.
- Paper box or other container, Corrugated. C. H. Crowell. No. 1,299,683; Apr. 8; v. 261; p. 271.
- Paper-calendering rolls or the like, Scraper for. J. A. Frossard. No. 1,299,930; Apr. 8; v. 261; p. 326.
- Paper can and other container. W. L. Wright. No. 1,308,317; July 1; v. 264; p. 57.
- Paper, Carbon. S. Iattori. No. 1,292,404; Jan. 21; v. 258; p. 627.
- Paper chest-protector. C. E. Albert. No. 1,311,845; July 29; v. 264; p. 838.
- Paper-clip. C. A. Haist. No. 1,326,725; Dec. 30; v. 269; p. 817.
- Paper-clip. T. Lea. No. 1,314,818; Sept. 2; v. 266; p. 64.
- Paper-clip. B. L. Mink. No. 1,298,542; Mar. 25; v. 260; p. 689.
- Paper-clip. A. E. Summersille. No. 1,310,587; July 22; v. 264; p. 571.
- Paper container and making same, Oil-proof. C. Ellis. No. 1,311,595; July 29; v. 264; p. 791.
- Paper container, Waterproofed. E. C. Hawkins. No. 1,301,840; Apr. 29; v. 261; p. 814.
- Paper containers, Coating. E. C. Hawkins. No. 1,301,841; Apr. 29; v. 261; p. 814.
- Paper-conveying mechanism. R. E. Kimball. No. 1,297,181; Mar. 11; v. 260; p. 343.
- Paper cup. G. J. Rohman. No. 1,295,418; Feb. 25; v. 259; p. 657.
- Paper-cup holder. D. F. Curtain. No. 1,303,171; May 6; v. 262; p. 132.
- Paper-cup machine. H. M. Hill. No. 1,293,775; Feb. 11; v. 259; p. 217.
- Paper-cup separator, Nested. B. J. Baum and C. W. Odermatt. No. 1,314,118; Aug. 26; v. 265; p. 512.
- Paper-cutter. A. Rowden and R. A. Hafford. No. 1,307,151; June 17; v. 263; p. 422.
- Paper-cutter for office use. G. Homrig. No. 1,322,571; Nov. 25; v. 268; p. 583.
- Paper cutter, Toilet. C. D. Jones. No. 1,326,738; Dec. 30; v. 269; p. 820.
- Paper-cutting machine. C. W. Lovell. No. 1,308,852; July 8; v. 264; p. 183.
- Paper, Device for printing on wrapping. C. W. Snowden. No. 1,293,963; Feb. 11; v. 259; p. 261.
- Paper-dispensing apparatus, Wrapping. L. A. Grossman and R. Schimek. No. 1,301,837; Apr. 29; v. 261; p. 814.
- Paper-dispensing cabinet. G. and G. Cottini. No. 1,311,799; July 29; v. 264; p. 829.
- Paper doll. E. G. G. Davis. No. 1,305,071; May 27; v. 262; p. 590.
- Paper drinking-cups, Machine for making. W. H. Shepard. No. 1,308,767; July 8; v. 264; p. 167.
- Paper duster. H. A. Miller. No. 1,309,537; July 8; v. 264; p. 311.
- Paper excelsior, Machine for the manufacture of. I. Hoffmann. No. 1,312,986; Aug. 12; v. 265; p. 247.
- Paper fabric, Reinforced. C. H. Howard. No. 1,314,519; Sept. 2; v. 266; p. 8.
- Paper-fastener. C. G. Fisher. No. 1,303,279; May 13; v. 262; p. 180.
- Paper-fastener. J. R. Stafford and F. J. Klein. No. 1,291,225; Jan. 14; v. 258; p. 314.
- Paper-fasteners, Die device for the formation of. J. Murray. No. 1,320,266; Oct. 28; v. 267; p. 605.
- Paper-fastening. C. S. Cone. No. 1,324,144; Dec. 9; v. 269; p. 217.
- Paper-fastening device. O. W. Brenizer. No. 1,298,875; Apr. 1; v. 261; p. 59.
- Paper-fastening machine. C. S. Cone. No. 1,324,103; Dec. 9; v. 269; p. 210.
- Paper-feed control for calculating-machines. O. Thleme. No. 1,293,245; Feb. 4; v. 259; p. 62.
- Paper-feed for autographic registers. H. H. Konerman and R. C. Leimberger. No. 1,316,581; Sept. 23; v. 266; p. 460.
- Paper feeder and cutter Visible. W. N. Ley. No. 1,293,484; Feb. 4; v. 259; p. 118.
- Paper-feeding device. J. A. Hagerstrom. No. 1,311,688; July 29; v. 264; p. 808.
- Paper-feeding device. W. W. Lasker. No. 1,317,509; Sept. 30; v. 266; p. 671.
- Paper-feeding machine. R. J. Netzel. No. 1,305,399; June 3; v. 263; p. 32.
- Paper-feeding machine. C. Spiro. No. 1,319,428; Oct. 21; v. 267; p. 424.
- Paper-feeding mechanism. H. O. Fischer. No. 1,298,684; Apr. 1; v. 261; p. 14.
- Paper-feeding mechanism. H. O. Fischer. No. 1,298,685; Apr. 1; v. 261; p. 14.
- Paper-feeding mechanism. H. W. Harris. No. 1,294,456; Feb. 18; v. 259; p. 413.
- Paper-feeding mechanism. H. C. Harvey. No. 1,326,194; Dec. 30; v. 269; p. 717.
- Paper-fiber twine, Machine for making combination. G. L. Rice. No. 1,320,921; Nov. 4; v. 268; p. 106.
- Paper-finger. O. A. Hokanson and A. O. H. Ebert. No. 1,310,829; July 22; v. 264; p. 617.



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- Paper forms, Machine for making. A. P. Tucker. No. 1,297,971; Mar. 18; v. 260; p. 541.
- Paper-guide. J. A. Hagerstrom. No. 1,311,687; July 29; v. 264; p. 808.
- Paper-hangers' outfits, Clamping device for. H. Anderson and J. F. Kane. No. 1,313,047; Aug. 12; v. 265; p. 259.
- Paper-hanger's paper-rest. E. L. Wallerstedt. No. 1,294,577; Feb. 18; v. 259; p. 440.
- Paper-hanger's pasting-table. J. S. Baker. No. 1,290,046; Jan. 7; v. 258; p. 8.
- Paper-hanging machine. Wall. J. Wyborski. No. 1,318,945; Oct. 14; v. 267; p. 307.
- Paper having envelop attachment, Letter-. F. J. Veitch. No. 1,319,440; Oct. 21; v. 267; p. 426.
- Paper-holder. W. L. Lee. No. 1,310,242; July 15; v. 264; p. 477.
- Paper holder and deliverer, Sanitary toilet-. C. Davis. No. 1,297,110; Mar. 11; v. 260; p. 328.
- Paper-holder, Collapsible. J. B. Faulkner. No. 1,293,067; Feb. 4; v. 259; p. 22.
- Paper, Holder for rolls of toilet-. R. Y. Bovee. No. 1,322,524; Nov. 25; v. 268; p. 574.
- Paper-holder for use of the blind. F. C. Bryan and C. M. Anderson. No. 1,293,023; Feb. 4; v. 259; p. 12.
- Paper holder, Toilet-. J. J. Mychreest. No. 1,326,085; Dec. 23; v. 269; p. 660.
- Paper holder, Toilet-. B. Phelps. No. 1,292,640; Jan. 28; v. 258; p. 707.
- Paper holders, Cutting attachment for roll-. G. Naito. No. 1,298,081; Mar. 25; v. 260; p. 589.
- Paper hollow ware, Apparatus for making. W. H. Fulcher. No. 1,303,191; May 6; v. 262; p. 135.
- Paper in commercial rolls, Machine for measuring and winding wall-. J. Crowe. No. 1,298,013; Mar. 25; v. 260; p. 575.
- Paper, Interfolding. C. E. Swick. No. 1,302,241; Apr. 29; v. 261; p. 890.
- Paper-interfolding machine. C. E. Swick. No. 1,302,240; Apr. 29; v. 261; p. 889.
- Paper jar or receptacle. C. R. Chenery. No. 1,312,434; Aug. 5; v. 265; p. 109.
- Paper leaves, Manufacturing. G. Iwatsubo. No. 1,307,404; June 24; v. 263; p. 502.
- Paper, Machine for forming twine or cord from ribbons of. G. S. Milde. No. 1,298,369; Mar. 25; v. 260; p. 649.
- Paper, Machine for making multiply. T. Scherf. No. 1,299,237; Apr. 1; v. 261; p. 141.
- Paper, Machine for pasting, trimming, and folding wall-. N. Headland. No. 1,303,895; May 20; v. 262; p. 330.
- Paper, Machine for waxing sheets of cigarette-. G. Gascard. No. 1,315,925; Sept. 9; v. 266; p. 275.
- Paper-machines, Shake arrangement for cylinder. E. W. Lindquist. No. 1,323,702; Dec. 2; v. 269; p. 89.
- Paper-making. C. T. Crocker. No. 1,326,849; Dec. 30; v. 269; p. 841.
- Paper-making. J. O. Ross. No. 1,290,360; Jan. 7; v. 258; p. 83.
- Paper-making apparatus. J. T. Murphy and E. J. Raney. No. 1,318,900; Oct. 14; v. 267; p. 298.
- Paper-making machine. J. H. Le Roy and R. G. Repman. No. 1,297,192; Mar. 11; v. 260; p. 345.
- Paper-making machine. G. McAulay. No. 1,296,299; Mar. 4; v. 260; p. 110.
- Paper-making machine. C. E. Pope. No. 1,304,903; May 27; v. 262; p. 558.
- Paper-making machine, Fourdriner. S. Milne. No. 1,303,493; May 13; v. 262; p. 218.
- Paper-making machines, Doctor for couch and like rolls of. H. Plant. No. 1,317,100; Sept. 23; v. 266; p. 557.
- Paper-making machines, Regulator for. G. Hardy. No. 1,322,016; Nov. 18; v. 268; p. 426.
- Paper, Making multicolor printed. E. T. Nebin. No. 1,308,098; July 1; v. 264; p. 17.
- Paper-making wires, felts, and the like, Tightener for. B. D. Coppage. No. 1,302,313; Apr. 29; v. 261; p. 903.
- Paper, Manifolding or duplicating. C. L. Spence. No. 1,306,785; June 17; v. 263; p. 355.
- Paper, Means for making. J. T. Tong. No. 1,295,636; Feb. 25; v. 259; p. 707.
- Paper, Method and machine for making. C. E. Pope. No. 1,326,615; Dec. 30; v. 269; p. 797.
- Paper or the like, Apparatus for rolling up. S. Lebensart. No. 1,302,934; May 6; v. 262; p. 86.
- Paper, Partially simulating hand-made. L. H. Orr. No. 1,299,216; Apr. 1; v. 261; p. 136.
- Paper, pasteboard, and the like, Device for exact registration of sheets of. G. Spiess. No. 1,290,390; Jan. 7; v. 258; p. 90.
- Paper-pasting machines, Wall-. F. W. Krafft. No. 1,310,355; July 15; v. 264; p. 497.
- Paper-perforating machine. J. T. Schaaff. No. 1,300,491; Apr. 15; v. 261; p. 473.
- Paper piece by piece, Apparatus for delivering toilet-. A. Lundberg. No. 1,312,449; Aug. 5; v. 265; p. 112.
- Paper-pulp, &c., Apparatus for treatment of. C. M. Cowan and J. Brown. No. 1,324,542; Dec. 9; v. 269; p. 295.
- Paper-pulp beating-machine. A. J. Weis. No. 1,301,629; Apr. 22; v. 261; p. 742.
- Paper-pulp, Process and apparatus for manufacturing articles from. A. V. Sims. No. 1,324,935; Dec. 16; v. 269; p. 430.
- Paper-pulp, Process and apparatus for treating. G. C. Howard. No. 1,322,489; Nov. 18; v. 268; p. 516.
- Paper-pulp, Treating. J. A. De Cew. No. 1,300,357; Apr. 15; v. 261; p. 445.
- Paper product and making same. J. A. De Cew. No. 1,317,618; Sept. 30; v. 266; p. 692.
- Paper, &c., Production of heavy. F. H. Fuller. No. 1,315,924; Sept. 9; v. 266; p. 275.
- Paper-punch. J. L. Stenquist. No. 1,292,124; Jan. 21; v. 258; p. 562.
- Paper-punching machine. S. K. Ouzoun-Boghossian. No. 1,325,451; Dec. 6; v. 269; p. 525.
- Paper receptacle. A. G. Porter. No. 1,303,723; May 13; v. 262; p. 260.
- Paper receptacles, Making. D. J. Jennings. No. 1,300,973; Apr. 15; v. 261; p. 575.
- Paper reed, Making. L. F. Barnum. No. 1,304,143; May 20; v. 262; p. 375.
- Paper, Reinforced corrugated. H. Ringel. No. 1,301,605; Apr. 22; v. 261; p. 737.
- Paper-reinforcing machine. C. H. Howard. No. 1,316,241; Sept. 16; v. 266; p. 347.
- Paper-reinforcing machine. C. H. Howard. No. 1,318,149; Oct. 7; v. 267; p. 93.
- Paper-reinforcing machine. C. H. Howard. No. 1,318,150; Oct. 7; v. 267; p. 93.
- Paper-reinforcing machine. C. H. Howard. No. 1,318,151; Oct. 7; v. 267; p. 93.
- Paper, Removing ink and coloring matter from printed. W. M. Osborne. No. 1,298,779; Apr. 1; v. 261; p. 39.
- Paper-removing machine, Wall-. W. J. Brown. No. 1,313,462; Aug. 19; v. 265; p. 354.
- Paper, Removing mineral matter from. Y. Nakamura. No. 1,318,902; Oct. 14; v. 267; p. 298.
- Paper-roll and holder therefor. R. M. MacCormac. No. 1,308,912; July 8; v. 264; p. 194.
- Paper-roll fixture. A. D. Hosfeldt. No. 1,310,019; July 15; v. 264; p. 437.
- Paper-roll holder. T. M. House. No. 1,314,267; Aug. 26; v. 265; p. 541.
- Paper-roll holder and cutter. E. O. Bulman. No. 1,326,019; Dec. 23; v. 269; p. 648.
- Paper-roll rack. F. and F. T. Winterhalter. No. 1,299,087; Apr. 1; v. 261; p. 108.
- Paper-roll support and cutter, Combined. R. Ariuchi. No. 1,324,019; Dec. 2; v. 269; p. 150.
- Paper-rolls, Collapsible core for. F. M. Joslin. No. 1,317,166; Sept. 30; v. 266; p. 606.
- Paper rolls, Spacing device for wrapping-. B. Carlisle. No. 1,301,037; Apr. 15; v. 261; p. 590.
- Paper-rolling machine. G. L. Carter. No. 1,309,393; July 8; v. 264; p. 284.
- Paper-ruling machine. G. F. McAdams. No. 1,302,571; May 6; v. 262; p. 17.
- Paper-ruling machine. E. S. Meighan. No. 1,293,852; Feb. 11; v. 259; p. 235.
- Paper sample-case, Wall-. R. D. Baldwin. No. 1,290,486; Jan. 7; v. 258; p. 114.
- Paper-scale. E. J. Cady. No. 1,321,59; Nov. 11; v. 268; p. 297.
- Paper-separator and guide-post, Automatic adjustable. F. J. Gaffney. No. 1,326,334; Dec. 30; v. 269; p. 743.
- Paper sheets, Apparatus for folding and interleaving. O. E. Teall. No. 1,290,800; Jan. 7; v. 258; p. 189.
- Paper-size and process of making same. J. A. De Cew. No. 1,317,616; Sept. 30; v. 266; p. 692.
- Paper-size, Treating. J. A. De Cew. No. 1,317,619; Sept. 30; v. 266; p. 692.
- Paper-sorting machine. R. Finster and P. Wilson. No. 1,302,466; Apr. 29; v. 261; p. 934.
- Paper-stock, Apparatus for measuring the viscosity of. A. B. Green. No. 1,321,736. Nov. 11; v. 268; p. 324.
- Paper-stock, Machine for and process of working. A. J. Haug. No. 1,302,469; Apr. 29; v. 261; p. 934.
- Paper-stock, Machine for treating. W. J. Herrbold and C. Keelan. No. 1,298,207; Mar. 25; v. 260; p. 617.
- Paper-stock, Process and apparatus for seasoning and rectifying. G. E. Poggel. No. 1,325,044; Dec. 16; v. 269; p. 449.
- Paper-stock, Removing printers' ink from. T. Jespersen. No. 1,311,563; July 29; v. 264; p. 786.
- Paper-stock, Rotary screen for. C. S. Bird. No. 1,304,253; May 20; v. 262; p. 396.
- Paper-stock-treating machine. W. J. Herrbold. No. 1,291,877; Jan. 21; v. 258; p. 499.
- Paper support, Wrapping-. E. Waigand. No. 1,300,061; Apr. 8; v. 261; p. 354.
- Paper, Surfacing. G. H. Parks. No. 1,291,626; Jan. 14; v. 258; p. 407.
- Paper-table. C. Spiro. No. 1,319,430. Oct. 21; v. 267; p. 424.
- Paper-tearing device. A. C. Kundtson. No. 1,325,300; Dec. 16; v. 269; p. 498.
- Paper-tester. G. S. Witham, Sr. No. 1,298,138; Mar. 25; v. 260; p. 602.
- Paper-towel container. F. H. Hoberg. No. 1,319,281; Oct. 21; v. 267; p. 396.
- Paper tube and making same. J. W. Kieckhefer. No. 1,313,898; Aug. 26; v. 265; p. 470.

- Paper tubes, Machine for coating. C. B. Macy. No. 1,304,189; May 20; v. 262; p. 383.
- Paper twine, Machine for making combination fiber-. G. L. Rice. No. 1,320,922; Nov. 4; v. 268; p. 106.
- Paper upon feed-boards, Mechanism for adjusting lifts of. R. Miehle. No. 1,300,445; Apr. 15; v. 261; p. 464.
- Paper-vessel-making machinery. H. Hill. No. 1,314,192; Aug. 26; v. 265; p. 526.
- Paper-vessel package. W. F. Hill. No. 1,310,699; July 22; v. 264; p. 592.
- Papers, Frame for filter-. A. M. Vaughan. No. 1,322,378; Nov. 18; v. 268; p. 495.
- Papers, leather, or similar material, Producing prints with colors on. G. E. Holmström. No. 1,300,397; Apr. 15; v. 261; p. 454.
- Parabola-forming device. K. E. Johnsson. No. 1,291,011; Jan. 14; v. 258; p. 264.
- Paracetaldehyde, Preparing. H. A. Morton and B. H. Nicolet. No. 1,300,451; Apr. 15; v. 261; p. 465.
- Parachute. F. W. Benton. No. 1,308,033; July 1; v. 264; p. 5.
- Parachute. F. A. Berg. No. 1,310,467; July 22; v. 264; p. 549.
- Parachute. E. R. Calthrop. No. 1,291,762; Jan. 21; v. 258; p. 471.
- Parachute. E. R. Calthrop. No. 1,295,968; Mar. 4; v. 260; p. 34.
- Parachute. E. R. Calthrop. No. 1,299,122; Apr. 1; v. 261; p. 115.
- Parachute. E. R. Calthrop. No. 1,299,123; Apr. 1; v. 261; p. 116.
- Parachute. E. R. Calthrop. No. 1,308,478; July 1; v. 264; p. 86.
- Parachute. E. R. Calthrop. No. 1,326,023; Dec. 23; v. 269; p. 649.
- Parachute. C. E. Donnelly. No. 1,310,693; July 22; v. 264; p. 591.
- Parachute. F. W. McFarland. No. 1,311,000; July 22; v. 264; p. 647.
- Parachute. G. H. Moon. No. 1,311,083; July 22; v. 264; p. 663.
- Parachute. H. K. Reeves. No. 1,310,839; July 22; v. 264; p. 619.
- Parachute. K. S. Satre. No. 1,308,375; July 1; v. 264; p. 67.
- Parachute. W. W. Whaley. No. 1,319,546; Oct. 21; v. 267; p. 446.
- Parachute device, Safety-pack. L. L. Irvin. No. 1,323,984; Dec. 2; v. 269; p. 143.
- Parachute for illuminating. F. Ziegenfuss. No. 1,319,553; Oct. 21; v. 267; p. 448.
- Parachute-launching device. E. R. Calthrop. 1,302,898; May 6; v. 262; p. 80.
- Parachute-launching device. S. J. Kempin. No. 1,325,441; Dec. 16; v. 269; p. 523.
- Parachute-pack, Safety. L. L. Irvin. No. 1,232,983; Dec. 2; v. 269; p. 143.
- Paraffining-machine. E. L. Lake. No. 1,321,925; Nov. 18; v. 268; p. 410.
- Parasol. J. Levin. No. 1,310,399; July 15; v. 264; p. 505.
- Parcel-handle. C. Schneider. No. 1,300,030; Apr. 8; v. 261; p. 348.
- Parcel-wrapper. G. J. Gory. No. 1,293,085; Feb. 4; v. 259; p. 26.
- Paring attachment, Vegetable-. S. L. Addison. No. 1,314,111; Aug. 26; v. 265; p. 511.
- Paring machine, Potato-. J. M. Struzas and J. Kulluk. No. 1,304,716; May 27; v. 262; p. 524.
- Partition or wall construction. H. G. E. Agier. No. 1,325,824; Dec. 23; v. 269; p. 612.
- Passages and lining same with earthenware, &c., Machine for forming subterraneous. N. M. Ryan. No. 1,303,399; May 13; v. 262; p. 201.
- Paste-discharging press. R. H. Black. No. 1,320,976; Nov. 4; v. 268; p. 116.
- Pasting and machine therefor. T. Smith. No. 1,299,804; Apr. 8; v. 261; p. 299.
- Pasting device. J. F. Higgins. No. 1,320,550; Nov. 4; v. 268; p. 36.
- Pasting machine, Grid-. T. A. Willard. No. 1,297,766; Mar. 18; v. 260; p. 498.
- Pasting-machines, Scraper-bar support for. W. T. Smith. No. 1,311,721; July 29; v. 264; p. 815.
- Pastry-baking machine. C. L. Willcox. No. 1,305,183; May 27; v. 262; p. 611.
- Pastry-cutting guide. W. G. Fairbank. No. 1,297,671; Mar. 18; v. 260; p. 476.
- Pastry-form machines, Batter-feeder for. L. H. Esselmann. No. 1,303,218; May 6; v. 262; p. 141.
- Pastry-making apparatus. E. H. Lanier. (Reissue.) No. 14,651; May 20; v. 262; p. 451.
- Pastry-making device. L. Lewison. No. 1,293,819; Feb. 11; v. 259; p. 228.
- Pastry-making machine, Cup-. A. E. Dieterich. No. 1,294,634; Feb. 18; v. 259; p. 453.
- Pastry-making machine, Cup-. A. E. Dieterich. No. 1,294,635; Feb. 18; v. 259; p. 453.
- Pastry-roller. S. E. Sams. No. 1,323,410; Dec. 2; v. 269; p. 35.
- Pasteurization apparatus. A. P. Murray. No. 1,307,689; June 24; v. 263; p. 553.
- Pasteurizer. K. R. Gitterman. No. 1,301,428; Apr. 22; v. 261; p. 704.
- Pasteurizer. L. S. Pfouts. No. 1,305,833; June 3; v. 263; p. 114.
- Pasteurizers, Holding-tank for. H. Feldmeier. No. 1,319,057; Oct. 21; v. 267; p. 353.
- Pasteurizing apparatus. G. B. Pitts. No. 1,300,869; Apr. 15; v. 261; p. 553.
- Pasteurizing apparatus. M. J. Van Aernam. No. 1,323,428; Dec. 2; v. 269; p. 89.
- Pasteurizing apparatus and process. L. S. Pfouts and E. J. Miller. No. 1,325,800; Dec. 23; v. 269; p. 608.
- Patch, Repair-. G. B. Wood. No. 1,296,349; Mar. 4; v. 260; p. 121.
- Patella-splint. W. Grundmann. No. 1,313,181; Aug. 12; v. 265; p. 285.
- Pattern: See—
- Adjustable pattern. Sleeve-pattern.
- Pattern-core-forming appliance. F. Gaisler. No. 1,296,945; Mar. 11; v. 260; p. 291.
- Pattern-drawing machine. H. H. Cummings and A. J. Mimmert. No. 1,313,882; Aug. 26; v. 265; p. 467.
- Pattern outfit, Dressmaker's. H. G. Millard. No. 1,313,496; Aug. 19; v. 265; p. 360.
- Pattern-reproducing machines, Grading machine for. F. S. Buck. No. 1,302,303; Apr. 29; v. 261; p. 901.
- Pavement and expansion-joint therefor. A. E. Davis. No. 1,298,018; Mar. 25; v. 260; p. 576.
- Paving-block. G. W. Frey. No. 1,299,453; Apr. 8; v. 261; p. 219.
- Paving-brick. W. J. McClain, Jr. No. 1,314,278; Aug. 26; v. 265; p. 543.
- Paving composition and products thereof, Making. J. E. Black and M. A. Popkess. No. 1,320,672; Nov. 4; v. 268; p. 58.
- Paving-flags, Machine for manufacturing. F. G. Jordan. No. 1,326,742; Dec. 30; v. 269; p. 821.
- Paving for streets and the like. R. C. Stubbs. No. 1,315,749; Sept. 9; v. 266; p. 241.
- Paving-guard. W. S. Godwin. No. 1,324,391; Dec. 9; v. 269; p. 265.
- Pawl. C. D. Derby. No. 1,314,735; Sept. 2; v. 266; p. 49.
- Pawl-and-ratchet mechanism. A. L. Sohm. No. 1,296,870; Mar. 11; v. 260; p. 274.
- Pea and bean vinders, Attachment for. H. E. Goff. No. 1,303,195; May 6; v. 262; p. 137.
- Pea cleaner, Green-. J. P. Pallansch. No. 1,298,086; Mar. 25; v. 260; p. 590.
- Pea-huller. J. M. Sanders. No. 1,295,605; Feb. 25; v. 259; p. 700.
- Pea-hulling machine, Green-. T. P. Bullard. No. 1,302,005; Apr. 29; v. 261; p. 846.
- Pea-separator. F. Hamacheck. No. 1,304,765; May 27; v. 262; p. 533.
- Peach-pitter. J. C. Johnson. No. 1,321,311; Nov. 11; v. 268; p. 244.
- Peanut-blanching machine. T. C. Suzzl. No. 1,295,631; Feb. 25; v. 259; p. 706.
- Peanut-digger. J. T. Lee. No. 1,302,568; May 6; v. 262; p. 17.
- Peanut-digger. V. P. McKinley. No. 1,293,144; Feb. 4; v. 259; p. 39.
- Peanut-digger. J. O. Noah. No. 1,300,636; Apr. 15; v. 261; p. 503.
- Peat, Method and means for removing water from. A. ten Bosch. No. 1,290,494; Jan. 7; v. 258; p. 116.
- Peat-pressing machine. C. A. Willmarth. No. 1,304,137; May 20; v. 262; p. 373.
- Peat, Treating. N. De Long. No. 1,312,521; Aug. 12; v. 265; p. 155.
- Peavey. G. Anderson. No. 1,290,039; Jan. 7; v. 258; p. 6.
- Pedal. F. C. Ewing. No. 1,308,700; July 1; v. 264; p. 127.
- Pedal. J. B. Stewart. No. 1,320,585; Nov. 4; v. 268; p. 43.
- Pedal extension. F. T. Hughes. No. 1,293,101; Feb. 4; v. 259; p. 30.
- Pedal mechanism for pneumatic devices. J. O. Schwarz and G. Bjorklund. No. 1,306,081; June 10; v. 263; p. 190.
- Pedal-operating device. S. Giacioletto. No. 1,311,223; July 29; v. 264; p. 722.
- Pedal-pad. J. E. Redfern. No. 1,302,853; May 6; v. 262; p. 71.
- Pedal plate or cap, Safety non-slipable. P. H. McGlehan. No. 1,297,202; Mar. 11; v. 260; p. 347.
- Pedestal. J. H. Astruck. No. 1,320,823; Nov. 4; v. 268; p. 87.
- Pedomotor. L. C. Kelley. No. 1,308,675; July 1; v. 264; p. 122.
- Peeling tomatoes, Method and machine for. C. Kirino. No. 1,312,332; Aug. 5; v. 265; p. 89.
- Peg, Repair-. W. Allen. No. 1,292,984; Feb. 4; v. 259; p. 3.
- Pegging-machine. A. A. Haahr. No. 1,291,487; Jan. 14; v. 258; p. 375.
- Pelt and hide washing or bating machine, Scudding attachment to. W. Cox. No. 1,305,774; June 3; v. 263; p. 103.



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- Pen: See—  
Fountain-pen.
- Pen. H. Swann. No. 1,311,026; July 22; v. 264; p. 652.
- Pen. E. S. Wood. No. 1,305,046; May 27; v. 262; p. 585.
- Pen and pencil attachment. O. W. Stiles. No. 1,310,257; July 15; v. 264; p. 480.
- Pen and pencil box. B. Bukowski. No. 1,293,324; Feb. 4; v. 259; p. 82.
- Pen and pencil clip. F. F. Larson. No. 1,313,826; Aug. 19; v. 265; p. 423.
- Pen and pencil clip. M. M. Reid. No. 1,306,774; June 17; v. 263; p. 353.
- Pen and pencil holder. C. L. Grimm. No. 1,299,174; Apr. 1; v. 261; p. 127.
- Pen and pencil rack. J. W. C. Williams. No. 1,319,743; Oct. 28; v. 267; p. 507.
- Pen and the like. Fountain-. H. A. Widmer. No. 1,296,890; Mar. 11; v. 260; p. 278.
- Pen attachment. Fountain-. J. Hillinger. No. 1,311,516; July 29; v. 264; p. 777.
- Pen blotter. Fountain-. J. Goldstein. No. 1,291,835; Jan. 21; v. 258; p. 489.
- Pen cap. Fountain-. C. A. Luck. No. 1,326,206; Dec. 30; v. 269; p. 720.
- Pen-clip. J. C. Wahl. No. 1,314,104; Aug. 26; v. 265; p. 510.
- Pen clip. Fountain-. J. W. Kessel. No. 1,309,946; July 15; v. 264; p. 424.
- Pen, Draftsman's. D. C. Lewis. No. 1,314,879; Sept. 2; v. 266; p. 75.
- Pen, Drawing-. W. A. Schenck. No. 1,304,709; May 27; v. 262; p. 522.
- Pen, Duplex. F. A. Frings. No. 1,312,440; Aug. 5; v. 265; p. 110.
- Pen-extractor. A. W. Williams. No. 1,319,444; Oct. 21; v. 267; p. 427.
- Pen. Fountain-. F. M. Ashley. No. 1,317,472; Sept. 30; v. 266; p. 664.
- Pen. Fountain-. O. H. Blackwood and F. Pearson. No. 1,313,056; Aug. 12; v. 265; p. 261.
- Pen. Fountain-. B. B. Bradford. No. 1,324,723; Dec. 9; v. 269; p. 328.
- Pen. Fountain-. G. T. Byers. No. 1,325,892; Dec. 16; v. 269; p. 314.
- Pen. Fountain-. W. L. Chapman. No. 1,312,681; Aug. 12; v. 265; p. 187.
- Pen. Fountain-. G. Dalton. No. 1,304,264; May 20; v. 262; p. 398.
- Pen. Fountain-. A. G. Elser. No. 1,292,736; Jan. 28; v. 258; p. 729.
- Pen. Fountain-. W. Greaves. No. 1,290,545; Jan. 7; v. 258; p. 128.
- Pen. Fountain-. S. Greenfield. No. 1,300,379; Apr. 15; v. 261; p. 450.
- Pen. Fountain-. W. A. Haskins. No. 1,307,630; June 24; v. 263; p. 542.
- Pen. Fountain-. H. S. Hasselquist. No. 1,325,844; Dec. 23; v. 269; p. 616.
- Pen. Fountain-. E. M. and W. A. Houston. No. 1,320,393; Nov. 4; v. 268; p. 7.
- Pen. Fountain-. E. Hugetz. No. 1,307,359; June 24; v. 263; p. 493.
- Pen. Fountain-. B. R. Jolly. No. 1,299,836; Apr. 8; v. 261; p. 306.
- Pen. Fountain-. C. R. Keeran. No. 1,301,057; Apr. 15; v. 261; p. 595.
- Pen. Fountain-. D. J. La France and W. P. De Witt. No. 1,300,849; Apr. 15; v. 261; p. 549.
- Pen. Fountain-. B. Lafitte. No. 1,319,593; Oct. 21; v. 267; p. 455.
- Pen. Fountain-. F. Le Boeuf. No. 1,302,935; May 6; v. 262; p. 87.
- Pen. Fountain-. F. W. Lee. No. 1,325,443; Dec. 16; v. 269; p. 523.
- Pen. Fountain-. G. B. Munn and C. H. Marker. No. 1,294,520; Feb. 18; v. 259; p. 427.
- Pen. Fountain-. C. H. North. No. 1,302,417; Apr. 29; v. 261; p. 924.
- Pen. Fountain-. R. S. Ogilvy. No. 1,317,817; Oct. 7; v. 267; p. 30.
- Pen. Fountain-. L. Plancher. No. 1,301,317; Apr. 22; v. 261; p. 684.
- Pen. Fountain-. J. F. Sieglenski. No. 1,297,602; Mar. 18; v. 260; p. 461.
- Pen. Fountain-. A. L. Sowerby. No. 1,306,394; June 10; v. 263; p. 251.
- Pen. Fountain-. W. A. Welty and H. P. Ravn. No. 1,299,642; Apr. 8; v. 261; p. 261.
- Pen. Fountain and stylographic. F. M. Peart. No. 1,302,842; May 6; v. 262; p. 69.
- Pen. Lettering. E. S. Keene. No. 1,320,694; Nov. 4; v. 268; p. 62.
- Pen-nib. G. A. Lowdell. No. 1,307,203; June 17; v. 263; p. 431.
- Pen of the self-filler type. Fountain-. F. Scheiblecker. No. 1,290,365; Jan. 7; v. 258; p. 84.
- Pen or pencil clip. W. F. Cushman. No. 1,321,893; Nov. 18; v. 268; p. 404.
- Pen or pencil. Luminous. J. W. Welton. No. 1,304,131; May 20; v. 262; p. 378.
- Pen. Pneumatic fountain-. J. F. Gardner. No. 1,307,195; June 17; v. 263; p. 430.
- Pen-point. W. F. Wall. No. 1,312,712; Aug. 12; v. 265; p. 193.
- Pen-point holder. C. A. Luck. No. 1,315,373; Sept. 9; v. 266; p. 174.
- Pen-point releaser. H. Neuman. No. 1,292,021; Jan. 21; v. 258; p. 536.
- Pen-rack. D. W. Benton. No. 1,293,002; Feb. 4; v. 259; p. 8.
- Pen-retainer. L. D. Van Valkenburg. No. 1,316,069; Sept. 16; v. 266; p. 315.
- Pen-retainer. Lever. L. D. Van Valkenburg. No. 1,316,070; Sept. 16; v. 266; p. 315.
- Pen. Ruling-. J. A. Hagerstrom. No. 1,305,538; June 3; v. 263; p. 58.
- Pen. Self-filling fountain-. H. L. Carman. No. 1,304,739; May 27; v. 262; p. 528.
- Pen. Self-filling fountain-. H. Catucci. No. 1,321,188; Nov. 11; v. 268; p. 220.
- Pen stand and wiper. Combined. J. C. Smalley. No. 1,291,212; Jan. 14; v. 258; p. 310.
- Pen. Stylographic. G. N. Hosinger. No. 1,299,576; Apr. 8; v. 261; p. 246.
- Pen. Trench fountain-. A. Lawres. No. 1,307,782; June 24; v. 263; p. 570.
- Pen. Two-colored fountain-. E. Gessmann. No. 1,298,326; Mar. 25; v. 260; p. 641.
- Pen. Wrist fountain-. I. Ziporyn. No. 1,322,862; Nov. 25; v. 268; p. 637.
- Pens. Adjusting device for drawing-. A. E. Norrman. No. 1,316,800; Sept. 23; v. 266; p. 501.
- Pens. Cap-clip for fountain-. W. T. Fitzpatrick. No. 1,310,235; July 15; v. 264; p. 476.
- Pens. Combined closure and eraser for fountain-. S. Newell. No. 1,302,954; May 6; v. 262; p. 90.
- Pens. Device for filling fountain-. P. P. Flournoy. No. 1,290,534; Jan. 7; v. 258; p. 126.
- Pens. Ink-holder for. E. E. Thomas. No. 1,318,000; Oct. 7; v. 267; p. 65.
- Pens. Pencil attachment for fountain-. A. L. Oppenheim. No. 1,302,585; May 6; v. 262; p. 19.
- Penholder. E. D. Feldman. No. 1,308,349; July 1; v. 264; p. 62.
- Penholder. H. J. Green. No. 1,292,762; Jan. 28; v. 258; p. 735.
- Penholder. Duplex. L. H. Wineman. No. 1,303,442; May 13; v. 262; p. 209.
- Penholder. Releasing-. J. Greco. No. 1,309,475; July 8; v. 264; p. 299.
- Penholder. Releasing-. J. Otto. No. 1,291,622; Jan. 14; v. 258; p. 406.
- Pencil. C. H. Braselton and F. M. Carroll. No. 1,292,426; Jan. 28; v. 258; p. 654.
- Pencil. H. Hess. No. 1,294,802; Feb. 18; v. 259; p. 493.
- Pencil. J. A. Hollenberger. No. 1,298,343; Mar. 25; v. 260; p. 644.
- Pencil. W. K. Holmes. No. 1,321,636; Nov. 11; v. 268; p. 305.
- Pencil. F. H. Lippincott. No. 1,324,971; Dec. 16; v. 269; p. 436.
- Pencil. W. Roll. No. 1,291,671; Jan. 14; v. 258; p. 419.
- Pencil. W. Roll. No. 1,296,011; Mar. 4; v. 260; p. 44.
- Pencil. F. J. Vierling. No. 1,317,743; Oct. 7; v. 267; p. 16.
- Pencil. C. E. Wehn. No. 1,302,999; May 6; v. 262; p. 99.
- Pencil and flash-light. Combined. O. D. Yelle. No. 1,321,694; Nov. 11; v. 268; p. 316.
- Pencil and penholder attachment. M. J. McGuigan. No. 1,291,972; Jan. 21; v. 258; p. 524.
- Pencil and scribe. Combination. L. F. Nelson. No. 1,303,944; May 20; v. 262; p. 339.
- Pencil attachment. J. Sinclair. No. 1,322,966; Nov. 25; v. 268; p. 656.
- Pencil attachment. T. O. Tippit. No. 1,306,203; June 10; v. 263; p. 213.
- Pencil. automatic. G. B. Bergen. No. 1,319,039; Oct. 21; v. 267; p. 350.
- Pencil-clip. E. Bard. No. 1,321,878; Nov. 18; v. 268; p. 401.
- Pencil extension. W. B. McIlvin. No. 1,305,477; June 3; v. 263; p. 47.
- Pencil-holder. E. R. Crossan. No. 1,324,308; Dec. 9; v. 269; p. 249.
- Pencil-holder. J. B. Easton. No. 1,299,923; Apr. 8; v. 261; p. 325.
- Pencil-holder. L. L. Lefler. No. 1,321,831; Nov. 18; v. 268; p. 393.
- Pencil-holder. Pocket. E. J. Morin. No. 1,323,607; Dec. 2; v. 269; p. 72.
- Pencil-holding attachment. T. Drenchko. No. 1,294,247; Feb. 11; v. 259; p. 328.
- Pencil. Lead-. F. J. Young. No. 1,309,929; July 15; v. 264; p. 421.
- Pencil. Magazine-. L. J. Most. No. 1,325,570; Dec. 23; v. 269; p. 565.
- Pencil. Magazine-. R. Nardi. No. 1,304,590; May 27; v. 262; p. 500.
- Pencil. Magazine-. J. B. Zimdars. No. 1,296,900; Mar. 11; v. 260; p. 281.

- Pencil-pointers, Chip-receptacle for. R. A. and A. P. Wilson. No. 1,305,855; June 3; v. 263; p. 118.
- Pencil, Propeller-. H. H. Troxel. No. 1,310,260; July 15; v. 264; p. 480.
- Pencil, Self-feeding. J. C. Wahl. No. 1,301,341; Apr. 22; v. 261; p. 689.
- Pencil-vending machine. E. W. Singletary. No. 1,300,888; Apr. 15; v. 261; p. 557.
- Pendant, Ribbon-. H. McElldowney. No. 1,291,968; Jan. 21; v. 258; p. 523.
- Pendulum-scale. J. Hopkinson. No. 1,316,576; Sept. 23; v. 266; p. 459.
- Pendulum, Self-damping gyro-. M. M. Titterton. No. 1,324,482; Dec. 9; v. 269; p. 283.
- Pendulum, Single-gyro-stabilized. E. Meitner. No. 1,324,128; Dec. 9; v. 269; p. 214.
- Pendulum, Stabilized gyroscopic. H. L. Tanner. No. 1,324,477; Dec. 9; v. 269; p. 282.
- Pendulums, Damping means for gyroscopic. H. L. Tanner. No. 1,324,478; Dec. 9; v. 269; p. 282.
- Perambulator. M. B. Lloyd. No. 1,319,479; Oct. 21; v. 267; p. 434.
- Perambulator and cradle. J. H. Scott. No. 1,297,018; Mar. 11; v. 260; p. 308.
- Perch, Bird-. C. W. Mueller. No. 1,293,513; Feb. 4; v. 259; p. 126.
- Perch, Bird-cage. J. L. Ebbels. No. 1,297,811; Mar. 18; v. 260; p. 507.
- Percolating apparatus. T. Abtmeyer. No. 1,317,256; Sept. 30; v. 266; p. 622.
- Percolator. T. Abtmeyer. No. 1,308,023; July 1; v. 264; p. 3.
- Percolator. R. F. Childress. No. 1,315,908; Sept. 9; v. 266; p. 271.
- Percolator. F. Hachmann. No. 1,290,546; Jan. 7; v. 258; p. 128.
- Percolator. O. L. Johnson. No. 1,296,086; Mar. 4; v. 260; p. 61.
- Percolator. H. D. Marcus. No. 1,307,745; June 24; v. 263; p. 563.
- Percolator. E. H. Osborne. No. 1,320,905; Nov. 4; v. 268; p. 103.
- Percolator. J. F. Smart. No. 1,295,222; Feb. 25; v. 259; p. 611.
- Percolator. A. H. S. Swan. No. 1,309,374; July 8; v. 264; p. 280.
- Percolator. J. E. Tene. No. 1,319,661; Oct. 21; v. 267; p. 468.
- Percolator. R. H. Wentorf. No. 1,297,425; Mar. 18; v. 260; p. 424.
- Percolator, Adjustable coffee-. L. B. Huning. No. 1,309,414; July 8; v. 264; p. 288.
- Percolator, Coffee-. C. M. Downham. No. 1,306,688; June 17; v. 263; p. 338.
- Percolator, Coffee-. J. S. Dunlap. No. 1,306,415; June 10; v. 263; p. 255.
- Percolator, Coffee-. G. E. Vierling. No. 1,302,483; Apr. 29; v. 261; p. 937.
- Per percussion-drill. L. L. Scott. No. 1,308,811; July 8; v. 264; p. 175.
- Per percussion-fuse for shells or projectiles. F. Davies. No. 1,302,902; May 6; v. 262; p. 81.
- Per percussion engine. W. Mauss. No. 1,309,649; July 15; v. 264; p. 369.
- Per percussion tool. W. A. Smith. No. 1,311,925; Aug. 5; v. 265; p. 14.
- Per percussion tool. W. A. Smith. No. 1,324,078; Dec. 9; v. 269; p. 205.
- Perforated sheet. J. A. Fisher. No. 1,310,238; July 15; v. 264; p. 476.
- Perforating and solder and flux feeding machine. W. H. Pisan. No. 1,290,341; Jan. 7; v. 258; p. 80.
- Perforating-machine. C. B. Bartee. No. 1,304,441; May 20; v. 262; p. 433.
- Perforating-machine. W. W. Lasker. No. 1,305,557; June 3; v. 263; p. 62.
- Perforating-machine. J. Powers. No. 1,299,022; Apr. 1; v. 261; p. 93.
- Perforating-machine. C. F. Stoddard. No. 1,294,845; Feb. 18; v. 259; p. 503.
- Perforating-machine. C. F. Stoddard. No. 1,323,614; Dec. 2; v. 269; p. 73.
- Perforating-machine. R. N. Williams. No. 1,309,927; July 15; v. 264; p. 420.
- Perforating-machine. R. N. Williams. No. 1,311,544; July 29; v. 264; p. 783.
- Perforating-machines, Flexible set-bar action for. W. W. Lasker. No. 1,311,566; July 29; v. 264; p. 786.
- Perforating-machines, Set-bar mechanism for. W. W. Lasker. No. 1,307,682; June 24; v. 263; p. 552.
- Perforator. B. Webster. No. 1,312,067; Aug. 5; v. 265; p. 40.
- Periodically-operated mechanism. H. S. Sines. No. 1,309,427; July 8; v. 264; p. 290.
- Periscope. C. H. Bedell. No. 1,294,365; Feb. 11; v. 259; p. 354.
- Periscope. A. Hollander. No. 1,290,744; Jan. 7; v. 258; p. 177.
- Periscope. A. Hollander. No. 1,290,745; Jan. 7; v. 258; p. 177.
- Periscope. A. Hollander. No. 1,290,746; Jan. 7; v. 258; p. 177.
- Periscope. H. C. Jenkins. No. 1,309,478; July 8; v. 264; p. 299.
- Periscope. F. L. G. Kollmorgen. No. 1,309,639; July 15; v. 264; p. 367.
- Periscope. T. D. Warner. No. 1,300,901; Apr. 15; v. 261; p. 561.
- Periscope. E. West. No. 1,298,611; Mar. 25; v. 260; p. 702.
- Periscope and like instrument. J. W. French. No. 1,316,438; Sept. 16; v. 266; p. 385.
- Periscope and like instrument casing. J. W. French. No. 1,298,632; Mar. 25; v. 260; p. 706.
- Periscope-casing. H. F. Olmsted. No. 1,311,087; July 22; v. 264; p. 664.
- Periscope, Draw-in. A. Grebe. No. 1,298,333; Mar. 25; v. 260; p. 642.
- Periscope-mounting. V. S. Durbin. No. 1,319,464; Oct. 21; v. 267; p. 431.
- Pernanganates, Electrolytic production of. B. F. Lovelace, C. E. Lanning, and W. L. Judefind. No. 1,291,680; Jan. 14; v. 258; p. 420.
- Pernanganates, Electrolytic production of. B. F. Lovelace, C. E. Lanning, and W. L. Judefind. No. 1,291,681; Jan. 14; v. 258; p. 421.
- Pernanganates, Electrolytic production of. B. F. Lovelace, C. E. Lanning, and W. L. Judefind. No. 1,291,682; Jan. 14; v. 258; p. 421.
- Pernutation-lock. C. E. Anable. No. 1,312,938; Aug. 12; v. 265; p. 237.
- Pernutation-lock. F. J. Butler. No. 1,308,521; July 1; v. 264; p. 93.
- Pernutation-lock. W. E. Darts. No. 1,319,140; Oct. 21; v. 267; p. 368.
- Pernutation-lock. S. D. Foster. No. 1,316,946; Sept. 23; v. 266; p. 527.
- Pernutation-lock. J. G. Grant. No. 1,305,681; June 3; v. 263; p. 86.
- Pernutation-lock. M. Kosich. No. 1,310,704; July 22; v. 264; p. 593.
- Pernutation-lock. J. Macé. No. 1,317,304; Sept. 30; v. 266; p. 631.
- Pernutation-lock. A. Miklea. No. 1,290,631; Jan. 7; v. 258; p. 149.
- Pernutation-lock. E. S. Perry. No. 1,294,943; Feb. 18; v. 259; p. 525.
- Pernutation-lock. M. Spinello. No. 1,299,517; Apr. 8; v. 261; p. 233.
- Pernutation-lock. J. R. Sungail. No. 1,320,806; Nov. 4; v. 268; p. 84.
- Pernutation-lock. J. K. Williams. No. 1,312,376; Aug. 5; v. 265; p. 97.
- Pernutation-lock. P. Zsurka. No. 1,320,819; Nov. 4; v. 268; p. 87.
- Pernutation mechanism. O. P. Barnes. No. 1,316,934; Sept. 23; v. 266; p. 525.
- Peroxid, Manufacture of strontium. J. B. Pierce, Jr. No. 1,325,043; Dec. 16; v. 269; p. 449.
- Peroxid, Obtaining manganese. C. H. Westling. No. 1,325,129; Dec. 16; v. 269; p. 466.
- Peroxidase preparations, Manufacture of high-class. A. Stoll. No. 1,324,752; Dec. 9; v. 269; p. 334.
- Pessary. H. M. Potter. No. 1,320,648; Nov. 4; v. 268; p. 54.
- Petrol and like cans, Pour-out device for. D. O'Callaghan. No. 1,293,522; Feb. 4; v. 259; p. 128.
- Petroleum and other hydrocarbon oils, Apparatus for vaporization and distillation of. G. A. Humason. No. 1,291,899; Jan. 21; v. 258; p. 505.
- Petroleum and other oils, Apparatus for obtaining distilled products, particularly gasoline, from. A. A. Stapp. No. 1,324,213; Dec. 9; v. 269; p. 231.
- Petroleum and other oils, Obtaining distilled products from. A. A. Stapp. No. 1,324,212; Dec. 9; v. 269; p. 231.
- Petroleum, Apparatus for treating. B. Andrews. No. 1,319,828; Oct. 28; v. 267; p. 523.
- Petroleum-bearing sands or shale, Separating the petroleum contents from. F. Navin. No. 1,312,266; Aug. 5; v. 265; p. 76.
- Petroleum derivatives, Apparatus for treating. H. B. Setzler. No. 1,292,966; Jan. 28; v. 258; p. 783.
- Petroleum-hydrocarbons, Making derivatives of. C. Ellis. No. 1,317,868; Oct. 7; v. 267; p. 39.
- Petroleum, Process of and apparatus for cracking. F. C. Ruff. No. 1,325,582; Dec. 23; v. 269; p. 567.
- Petroleum products, Apparatus for treating. U. S. Jenkins. No. 1,321,749; Nov. 11; v. 268; p. 326.
- Petroleum products, Art of refining. C. K. Francis and D. G. Morgan. No. 1,313,629; Aug. 19; v. 265; p. 386.
- Petroleum products, Manufacture of high-grade low-boiling. A. M. McAfee. No. 1,326,073; Dec. 23; v. 269; p. 658.
- Petroleum residues, &c., Treating. C. S. Palmer. No. 1,313,009; Aug. 12; v. 265; p. 252.
- Petroleum, tar, and the like, Preheater for use in the distillation of. L. Steinschneider. No. 1,302,988; May 6; v. 262; p. 97.
- Petroleum, Treating. W. A. Schmidt and E. R. Wolcott. No. 1,307,931; June 24; v. 263; p. 597.
- Phase-converters, Starting. E. F. W. Alexanderson. No. 1,300,545; Apr. 15; v. 261; p. 486.



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- Phase-converting system. R. E. Hellmund. No. 1,296,287; Mar. 4; v. 260; p. 107.
- Phase-converting system. R. E. Hellmund. No. 1,318,752; Oct. 14; v. 267; p. 269.
- Phase-converting system with inherent balancing means. R. E. Hellmund. No. 1,323,271; Dec. 2; v. 269; p. 9.
- Phase-distribution system. T. F. Bally and F. T. Cope. No. 1,322,749; Nov. 25; v. 268; p. 616.
- Phase-modification system. E. F. W. Alexanderson. No. 1,300,543; Apr. 15; v. 261; p. 485.
- Phase-modification system. E. F. W. Alexanderson. No. 1,300,544; Apr. 15; v. 261; p. 485.
- Phenol and formaldehyde and making same, Composite article including. W. D. Stevenson. No. 1,295,230; Feb. 25; v. 259; p. 614.
- Phenol Making. R. H. McKee. No. 1,312,127; Aug. 5; v. 265; p. 52.
- Phenol Manufacture of. A. C. Houghton. No. 1,308,737; July 8; v. 264; p. 166.
- Phenols and their substitution products, Preparation of aromatic. E. H. Zollinger and H. Roehling. No. 1,321,271; Nov. 11; v. 268; p. 236.
- Phenolic condensation product and making same. L. H. Backland. No. 1,306,681; June 17; v. 263; p. 337.
- Phenolic condensation products, Producing. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,310,087; July 15; v. 264; p. 448.
- Phenolic condensation products, Producing. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,310,088; July 15; v. 264; p. 448.
- Phonograph. B. B. Blood. No. 1,313,250; Aug. 19; v. 265; p. 315.
- Phonograph. F. A. De Lay. No. 1,293,363; Feb. 4; v. 259; p. 91.
- Phonograph. E. Fletcher and R. L. Wickes. No. 1,322,890; Nov. 25; v. 268; p. 642.
- Phonograph. J. Hajek. No. 1,308,065; July 1; v. 264; p. 10.
- Phonograph. F. A. Lee and F. G. Rose. No. 1,303,686; May 13; v. 262; p. 253.
- Phonograph. D. M. Manson. No. 1,291,985; Jan. 21; v. 258; p. 527.
- Phonograph. L. J. O'Riley. No. 1,303,951; May 20; v. 262; p. 340.
- Phonograph. M. B. Peal. No. 1,307,020; June 17; v. 263; p. 399.
- Phonograph. A. W. Pevare. No. 1,292,368; Jan. 21; v. 258; p. 620.
- Phonograph. C. R. Raney. No. 1,302,217; Apr. 29; v. 261; p. 885.
- Phonograph. C. R. Repp. No. 1,302,433; Apr. 29; v. 261; p. 927.
- Phonograph. C. B. Repp. No. 1,323,316; Dec. 2; v. 269; p. 17.
- Phonograph. C. B. Repp. No. 1,323,317; Dec. 2; v. 269; p. 18.
- Phonograph. E. Rogers. No. 1,316,187; Sept. 16; v. 266; p. 337.
- Phonograph. H. K. Sandell. No. 1,308,450; July 1; v. 264; p. 80.
- Phonograph. H. K. Sandell. No. 1,325,209; Dec. 16; v. 269; p. 481.
- Phonograph. M. W. Turnquist. No. 1,294,850; Feb. 18; v. 259; p. 504.
- Phonograph. A. Winslow. No. 1,318,193; Oct. 7; v. 267; p. 102.
- Phonograph and picture-reproducer, Combination. M. De La Fontaine. No. 1,303,217; May 6; v. 262; p. 141.
- Phonograph appliance. L. H. Mentel. No. 1,325,648; Dec. 23; v. 269; p. 579.
- Phonograph arm and horn attachment. G. A. Hoover. No. 1,306,182; June 10; v. 263; p. 209.
- Phonograph attachment. A. J. M. Corns. No. 1,303,031; May 6; v. 262; p. 105.
- Phonograph attachment. F. T. Kent. No. 1,293,797; Feb. 11; v. 259; p. 222.
- Phonograph attachment. W. B. May. No. 1,292,349; Jan. 21; v. 258; p. 616.
- Phonograph. Automatic magazine. E. Armbrust. No. 1,304,246; May 20; v. 262; p. 394.
- Phonograph automatic stop. F. W. Waschau. No. 1,293,268; Feb. 4; v. 259; p. 68.
- Phonograph automatic stop mechanism. W. W. Kidney. No. 1,291,549; Jan. 14; v. 258; p. 388.
- Phonograph brake mechanism. P. S. Duffy. No. 1,291,796; Jan. 21; v. 258; p. 478.
- Phonograph Cabinet. S. W. Hecox. No. 1,324,311; Dec. 9; v. 269; p. 250.
- Phonograph-container. J. P. Hocking. No. 1,316,615; Sept. 23; v. 266; p. 467.
- Phonograph-controlling device. N. H. Holland. No. 1,290,199; Jan. 7; v. 258; p. 45.
- Phonograph disk records, Album for. J. E. Fletcher. No. 1,316,885; Sept. 23; v. 266; p. 516.
- Phonograph, Electric-motor. F. L. Capps. No. 1,290,712; Jan. 7; v. 258; p. 169.
- Phonograph-horn. E. L. Kenyon. No. 1,303,208; May 6; v. 262; p. 139.
- Phonograph-horn. C. H. Larsson. No. 1,323,777; Dec. 2; v. 269; p. 104.
- Phonograph-illuminating appliance. M. H. Gaba. No. 1,316,025; Sept. 16; v. 266; p. 307.
- Phonograph, Illustrative. W. C. Huss. No. 1,307,550; June 24; v. 263; p. 528.
- Phonograph locking or braking device. R. H. Manson. No. 1,309,741; July 15; v. 264; p. 386.
- Phonograph, Loud-speaking wireless. E. C. Hanson. No. 1,320,141; Oct. 23; v. 267; p. 581.
- Phonograph-motor control. V. G. Apple. No. 1,316,552; Sept. 23; v. 266; p. 455.
- Phonograph-needle. E. T. Chernushek. No. 1,316,533; Sept. 16; v. 266; p. 404.
- Phonograph-needle-renovating means. J. E. Simpson and C. J. Paulson. No. 1,292,894; Jan. 28; v. 258; p. 767.
- Phonograph-operated game. A. D. Avery and B. Manbert. No. 1,292,228; Jan. 21; v. 258; p. 588.
- Phonograph or talking-machine. J. P. Constable. No. 1,304,158; May 20; v. 262; p. 378.
- Phonograph or talking-machine. J. F. Ott. No. 1,299,768; Apr. 8; v. 261; p. 292.
- Phonograph or talking-machine stop mechanism. C. Schill. No. 1,294,955; Feb. 18; v. 259; p. 528.
- Phonograph, Plural-record. G. W. Bowers. No. 1,326,473; Dec. 30; v. 269; p. 770.
- Phonograph-record. L. S. Holmboe. No. 1,316,894; Sept. 23; v. 266; p. 518.
- Phonograph-record. G. Leake. No. 1,303,074; May 6; v. 262; p. 113.
- Phonograph-record carrier. C. R. Albrecht and A. Goedecker. No. 1,320,958; Nov. 4; v. 268; p. 113.
- Phonograph record-disk. S. D. Mott. No. 1,320,639; Nov. 4; v. 268; p. 52.
- Phonograph-record filing and delivering apparatus. A. A. De Mars. No. 1,297,306; Mar. 11; v. 260; p. 370.
- Phonograph-record presses, Stand for. F. L. Capps. No. 1,298,659; Apr. 1; v. 261; p. 9.
- Phonograph-record-repeating device. J. H. Dickinson. No. 1,300,135; Apr. 8; v. 261; p. 371.
- Phonograph-records, Cleaning device for. D. F. Harbaugh. No. 1,318,145; Oct. 7; v. 267; p. 92.
- Phonograph-records, Making. R. Head. No. 1,326,728; Dec. 30; v. 269; p. 518.
- Phonograph-records, Method of and apparatus for making. J. V. Erickson. No. 1,307,812; June 24; v. 263; p. 576.
- Phonograph-repeater. R. G. Brown and J. E. Strietelmeier. No. 1,322,286; Nov. 18; v. 268; p. 477.
- Phonograph-repeater. F. G. Pfommer. No. 1,293,537; Feb. 4; v. 259; p. 131.
- Phonograph-reproducer. O. L. Grubbs. No. 1,315,117; Sept. 2; v. 266; p. 117.
- Phonograph-reproducer. C. N. Moller. No. 1,296,833; Mar. 11; v. 260; p. 264.
- Phonograph-reproducer. T. H. Reed. No. 1,321,476; Nov. 11; v. 268; p. 275.
- Phonograph sound-box. J. Hoffay. No. 1,291,887; Jan. 21; v. 257; p. 501.
- Phonograph sound-box. W. W. Mills. No. 1,309,766; July 15; v. 264; p. 391.
- Phonograph sound-boxes, Attachment for. A. E. Burruss. No. 1,325,274; Dec. 16; v. 269; p. 493.
- Phonograph sound-chamber or horn. F. C. Lyon. No. 1,295,910; Mar. 4; v. 260; p. 20.
- Phonograph sound-chamber or horn. F. C. Lyon. No. 1,295,911; Mar. 4; v. 260; p. 20.
- Phonograph speaking-tube support. N. H. Holland. No. 1,297,466; Mar. 18; v. 260; p. 432.
- Phonograph speed-indicator. H. H. Brown. No. 1,293,018; Feb. 4; v. 259; p. 11.
- Phonograph-stop. A. F. Bruhy. No. 1,316,138; Sept. 16; v. 266; p. 328.
- Phonograph-stop. R. Kuenstler. No. 1,310,484; July 22; v. 264; p. 552.
- Phonograph-stop. H. K. Sandell. No. 1,308,447; July 1; v. 264; p. 80.
- Phonograph-stop device. D. M. Winans. (Reissue.) No. 1,471,818; Aug. 19; v. 265; p. 433.
- Phonograph stop mechanism. A. H. Franke. No. 1,302,650; May 6; v. 262; p. 32.
- Phonograph stop mechanism. R. Thomas. No. 1,298,826; Apr. 1; v. 261; p. 49.
- Phonograph tone-arm. R. J. Prettie. No. 1,294,945; Feb. 18; v. 259; p. 525.
- Phonograph transmission. W. H. Davis and F. E. Joss. No. 1,312,958; Aug. 12; v. 265; p. 241.
- Phonograph transmission-rod. W. H. Davis and F. E. Joss. No. 1,312,957; Aug. 12; v. 265; p. 241.
- Phonograph-transmitter. H. C. Egerton. No. 1,303,183; May 6; v. 262; p. 134.
- Phonograph with extensible horn. R. Head. No. 1,326,729; Dec. 30; v. 269; p. 818.
- Phonographs, Automatic stop for. E. C. Cook. No. 1,324,190; Dec. 9; v. 269; p. 226.
- Phonographs, Automatic stopping and starting mechanism for. W. F. Schmidt. No. 1,326,102; Dec. 23; v. 269; p. 664.
- Phonographs, Blade-sharpening attachment for. J. U. Fuchs. No. 1,316,948; Sept. 23; v. 266; p. 528.
- Phonographs, Dancing figure for. J. M. Foster. No. 1,307,121; June 17; v. 263; p. 417.
- Phonographs, Device for. J. Menchen. No. 1,317,630; Sept. 30; v. 266; p. 694.
- Phonographs, Driving mechanism for. T. M. Shank. No. 1,308,556; July 1; v. 264; p. 100.

- Phonographs, Figure-toy attachment for disk. E. L. Dodson and H. G. Pelstring. No. 1,294,243; Feb. 11; v. 259; p. 327.
- Phonographs, Repeating and stopping attachment for. F. H. Adams. No. 1,317,257; Sept. 30; v. 266; p. 622.
- Phonographs, Repeating and stopping attachment for. F. H. Adams. No. 1,317,258; Sept. 30; v. 266; p. 622.
- Phonographs, Repeating and stopping attachment for. F. H. Adams. No. 1,317,259; Sept. 30; v. 266; p. 623.
- Phonographs, Tone-regulator for. C. H. Smith. No. 1,306,196; June 10; v. 263; p. 212.
- Phonographic apparatus, Control mechanism for. F. D. Lewis. No. 1,303,927; May 20; v. 262; p. 336.
- Phonographic attachment. A. G. Remhilt. No. 1,304,513; May 20; v. 262; p. 447.
- Phonographic driving mechanism. C. F. Roberts. No. 1,293,622; Feb. 4; v. 259; p. 150.
- Phonographic recorder. W. C. Duryea. No. 323,175; Nov. 25; v. 268; p. 697.
- Phonographic records, Container for. T. Sharlow. No. 1,316,395; Sept. 16; v. 266; p. 376.
- Phonographic reproducer. J. H. J. Haines. No. 1,310,946; July 22; v. 264; p. 637.
- Phonographic reproducing instrument for organs. T. A. Cleaver. No. 1,317,127; Sept. 23; v. 266; p. 562.
- Phosphate and fertilizer material produced therein, Making decalcium. S. S. Sadler. No. 1,326,533; Dec. 30; v. 269; p. 782.
- Phosphate fertilizer containing nitrogen, Manufacturing. A. Foss. No. 1,292,293; Jan. 21; v. 258; p. 601.
- Phosphin and apparatus therefor, Oxidizing. J. D. Davis. No. 1,325,145; Dec. 16; v. 269; p. 469.
- Phosphoric acid, &c., Making. I. Hechenbleikner. No. 1,313,379; Aug. 19; v. 265; p. 339.
- Phosphorus compound from plants, Organic. S. Posternak. No. 1,313,014; Aug. 12; v. 265; p. 253.
- Photo-engravings, Producing. G. A. Betts. No. 1,310,385; July 15; v. 264; p. 503.
- Photo-film carrier. L. F. McKelvey and J. A. Brandenburger. No. 1,323,369; Dec. 2; v. 269; p. 28.
- Photochemical chlorination. B. S. Lacy. No. 1,308,760; July 8; v. 264; p. 166.
- Photochemical process. W. O. Snelling. No. 1,325,214; Dec. 16; v. 269; p. 482.
- Photograph and blue-print drier, Mechanical. C. F. Saunders. No. 1,301,750; Apr. 22; v. 261; p. 766.
- Photograph-holder. M. I. D. Einstein. No. 1,307,394; June 24; v. 263; p. 500.
- Photograph-making. L. McCormick. No. 1,294,686; Feb. 18; v. 259; p. 466.
- Photographs, Apparatus for enlarging. P. Boucard and L. Lemaire. No. 1,310,052; July 15; v. 264; p. 442.
- Photographs, Apparatus for making identifying. W. F. Folmer. No. 1,324,887; Dec. 16; v. 269; p. 420.
- Photographs, &c., Device for displaying. E. Barthelmy. No. 1,305,245; June 3; v. 263; p. 3.
- Photographs, Method and means of producing multi-colored. I. Kitsee. No. 1,325,992; Dec. 23; v. 269; p. 643.
- Photographer's flash-light. A. W. Straight. No. 1,307,220; June 17; v. 263; p. 434.
- Photographic and cinematographic apparatus. G. G. B. Tartara. No. 1,295,081; Feb. 18; v. 259; p. 556.
- Photographic and cinematographic pictures, Coloring of. H. Shorrock. No. 1,303,506; May 13; v. 262; p. 220.
- Photographic and projecting apparatus, Lens-mount for. W. W. Blackman. No. 1,325,314; Dec. 16; v. 269; p. 501.
- Photographic apparatus. E. Markley. No. 1,295,342; Feb. 25; v. 259; p. 639.
- Photographic apparatus. E. Markley. No. 1,319,962; Oct. 28; v. 267; p. 548.
- Photographic apparatus. R. A. Moore. No. 1,294,821; Feb. 18; v. 259; p. 497.
- Photographic dark box. W. F. Folmer. No. 1,291,820; Jan. 21; v. 258; p. 485.
- Photographic distance-finder. H. E. Kingsley and G. C. Richmond. No. 1,318,155; Oct. 7; v. 267; p. 94.
- Photographic element and making same, Colored. S. E. Sheppard. No. 1,290,794; Jan. 7; v. 258; p. 188.
- Photographic exposure mechanism. D. M. Hurlburt. No. 1,298,723; Apr. 1; v. 261; p. 24.
- Photographic exposure-meter. G. A. Smith. No. 1,310,255; July 15; v. 264; p. 479.
- Photographic exposures and projection, Method and apparatus for. W. M. Thomas. No. 1,313,615; Aug. 19; v. 265; p. 384.
- Photographic film. B. H. Meyering. No. 1,321,067; Nov. 4; v. 268; p. 134.
- Photographic-film-developing tank. R. F. Whitt. No. 1,305,043; May 27; v. 262; p. 585.
- Photographic-film holder. W. Fetz. No. 1,294,079; Feb. 11; v. 259; p. 289.
- Photographic film-mount. J. H. Snively. No. 1,317,946; Oct. 7; v. 267; p. 54.
- Photographic-film spool. B. D. Chamberlin. No. 1,306,881; June 17; v. 263; p. 373.
- Photographic films and plates, Apparatus for developing, fixing, and washing. J. P. Hansen. No. 1,305,095; May 27; v. 262; p. 594.
- Photographic films, Apparatus for developing. P. E. Edelman. No. 1,294,429; Feb. 18; v. 259; p. 406.
- Photographic films, Developing, coloring, and washing tank for two-sided. A. Hamburger. No. 1,308,710; July 1; v. 264; p. 129.
- Photographic films, Machine for cleaning and waxing. R. S. Scheiblein. No. 1,300,656; Apr. 15; v. 261; p. 508.
- Photographic films, Means and method of developing. P. E. Edelman. No. 1,304,032; May 20; v. 262; p. 355.
- Photographic films, Tank for developing. W. C. Motteram. No. 1,302,408; Apr. 29; v. 261; p. 922.
- Photographic image and producing same, Colored. F. E. Ives. No. 1,300,616; Apr. 15; v. 261; p. 500.
- Photographic lens-carriage. W. A. Riddell. No. 1,295,373; Feb. 25; v. 259; p. 646.
- Photographic-lighting machine. J. M. Green. No. 1,321,521; Nov. 11; v. 268; p. 283.
- Photographic material, Color-sensitized. F. F. Renwick. No. 1,320,176; Oct. 28; v. 267; p. 587.
- Photographic motion-recording device. A. E. Michaelson. No. 1,303,099; May 6; v. 262; p. 118.
- Photographic negatives and positives and producing printing-plates therefrom, Preparing grained-tone. W. C. Huebner. No. 1,300,729; Apr. 15; v. 261; p. 524.
- Photographic objective. C. W. Frederick and F. E. Ross. No. 1,306,958; June 17; v. 263; p. 387.
- Photographic objective. C. W. Frederick and F. E. Altman. No. 1,309,847; July 15; v. 264; p. 405.
- Photographic phonograph. F. W. Adsit. No. 1,291,702; Jan. 21; v. 258; p. 455.
- Photographic plates and cinematograph-films, Antihalation coating for. S. Cocanari. No. 1,305,195; May 27; v. 262; p. 614.
- Photographic positive prints, Method of and article for making. J. G. Capstaff. No. 1,303,635; May 13; v. 262; p. 244.
- Photographic-print washer. G. W. Romer. No. 1,312,050; Aug. 5; v. 265; p. 37.
- Photographic prints, Developing appliance for. G. W. Romer. No. 1,299,229; Apr. 1; v. 261; p. 139.
- Photographic prints with fluids, Machine for treating. C. Barbieri and P. Carpenter. No. 1,292,230; Jan. 21; v. 258; p. 588.
- Photographic-printing apparatus. J. G. Capstaff. No. 1,306,946; June 17; v. 263; p. 385.
- Photographic-printing apparatus. G. E. Tornsjö. No. 1,303,418; May 13; v. 262; p. 205.
- Photographic-printing apparatus. A. M. Troup. No. 1,323,559; Dec. 2; v. 269; p. 64.
- Photographic-printing apparatus. W. Wenderhold. No. 1,312,289; Aug. 5; v. 265; p. 81.
- Photographic-printing apparatus, Apparatus for positioning the printing-plates on the plate-holders of. W. C. Huebner. No. 1,291,897; Jan. 21; v. 258; p. 505.
- Photographic-printing frame. W. E. Bond. No. 1,293,678; Feb. 11; v. 259; p. 194.
- Photographic-printing frame. E. N. White. No. 1,319,442; Oct. 21; v. 267; p. 427.
- Photographic-printing machine. W. E. Mowrey. No. 1,304,796; May 27; v. 262; p. 539.
- Photographic-printing mask. M. Jetlund. No. 1,326,736; Dec. 30; v. 269; p. 820.
- Photographic raw films, Packing of. J. P. Hansen. No. 1,305,096; May 27; v. 262; p. 594.
- Photographic reeling apparatus. W. M. Thomas. No. 1,317,404; Sept. 30; v. 266; p. 650.
- Photographic reproduction on paper by means of electric light, Apparatus for. F. G. Escobar. No. 1,320,849; Nov. 4; v. 268; p. 92.
- Photographic shutter. S. M. Fairchild. No. 1,325,317; Dec. 16; v. 269; p. 501.
- Photographic shutter. F. A. G. Pirwitz. No. 1,307,751; June 24; v. 263; p. 564.
- Photographing elements, Method and apparatus for recording designations on. G. J. Hood. No. 1,323,364; Dec. 2; v. 269; p. 27.
- Photography, Aerial. S. Parks. No. 1,301,967; Apr. 29; v. 261; p. 839.
- Photography, Color. J. G. Capstaff. No. 1,315,464; Sept. 9; v. 266; p. 191.
- Photography, Color. A. Hamburger. No. 1,308,708; July 1; v. 264; p. 128.
- Photography, Color. F. E. Ives. No. 1,306,904; June 17; v. 263; p. 377.
- Photography, Color. I. Kitsee. No. 1,298,514; Mar. 25; v. 260; p. 683.
- Photography, Color. W. H. Kunz. No. 1,320,625; Nov. 4; v. 268; p. 50.
- Photography, Color. C. Raleigh and W. V. D. Kelley. No. 1,325,204; Dec. 16; v. 269; p. 480.
- Photomechanical screen and making same. J. A. H. Hatt. No. 1,317,493; Sept. 30; v. 266; p. 668.
- Photometer. H. G. Aylsworth. No. 1,290,695; Jan. 7; v. 258; p. 165.
- Photometer. P. A. M. Lacroix and J. Richard. No. 1,315,972; Sept. 16; v. 266; p. 297.
- Photometer. C. H. Sharp. No. 1,297,260; Mar. 11; v. 260; p. 360.
- Photoprint-washer. W. A. Lenz. No. 1,313,395; Aug. 19; v. 265; p. 342.
- Photoprinting-machines, Vignetting device for. H. H. McIntire. No. 1,315,732; Sept. 9; v. 266; p. 238.
- Phthalic anhydride, Purification of crude. C. Conover and H. D. Gibbs. No. 1,301,388; Apr. 22; v. 261; p. 698.



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- Physical effect, Apparatus for causing predetermined variation, &c., in. R. W. Newcomb. No. 1,295,572; Feb. 25; v. 259; p. 693.
- Physician's straddle-stand. J. Clark. No. 1,308,661; July 1; v. 264; p. 120.
- Piano. P. M. Borja. No. 1,294,866; Feb. 18; v. 259; p. 508.
- Piano-action. H. P. Ballou. No. 1,303,451; May 13; v. 262; p. 210.
- Piano-action. F. A. Lingsch. No. 1,296,826; Mar. 11; v. 260; p. 263.
- Piano and phonograph, Combined. C. S. Burton. No. 1,300,244; Apr. 15; v. 261; p. 421.
- Piano and phonograph, Combined player-. M. Clark. No. 1,306,847; June 17; v. 263; p. 367.
- Piano and phonograph, Player-. E. C. Mechling. No. 1,311,663; July 29; v. 264; p. 804.
- Piano and piano-player. J. B. McEwen. No. 1,321,654; Nov. 11; v. 268; p. 308.
- Piano-bench. M. E. Copley. No. 1,290,517; Jan. 7; v. 258; p. 122.
- Piano-bench. J. N. Peterson. No. 1,290,779; Jan. 7; v. 258; p. 184.
- Piano-bench, Adjustable. V. Belzian. No. 1,308,729; July 1; v. 264; p. 132.
- Piano construction. M. J. Dunn. No. 1,301,825; Apr. 29; v. 261; p. 811.
- Piano for producing solo effects, Player-. J. B. Fiala. No. 1,313,625; Aug. 19; v. 265; p. 385.
- Piano for producing solo effects, Player-. H. J. La Joie. No. 1,309,762; July 15; v. 264; p. 390.
- Piano-key. A. F. Schatzel. No. 1,319,801; Oct. 28; v. 267; p. 518.
- Piano-key mechanism. R. Hope-Jones. No. 1,301,267; Apr. 22; v. 261; p. 673.
- Piano-keyboard indicator. A. H. von Bornstedt and C. P. Blecker. No. 1,293,997; Feb. 11; v. 259; p. 270.
- Piano mechanism, Player-. S. R. Harcourt. No. 1,316,573; Sept. 23; v. 266; p. 459.
- Piano, Player-. A. G. and C. Gulbransen. No. 1,308,736; July 1; v. 264; p. 134.
- Piano, Player-. O. M. Kennedy. (Reissue.) No. 1,467,2; June 24; v. 263; p. 616.
- Piano, Player-. F. B. Long. No. 1,325,523; Dec. 23; v. 269; p. 556.
- Piano, Player-. P. J. Meahl. No. 1,312,195; Aug. 5; v. 265; p. 65.
- Piano, Player-. W. L. Pollard. No. 1,308,915; July 8; v. 264; p. 194.
- Piano-player. T. Fishleigh. No. 1,319,326; Oct. 21; v. 267; p. 405.
- Piano-player. C. E. Peterson. No. 1,295,198; Feb. 28; v. 259; p. 606.
- Piano-player. C. H. Spencer. No. 1,324,700; Dec. 9; v. 269; p. 324.
- Piano-player. C. H. Spencer. No. 1,324,701; Dec. 9; v. 269; p. 324.
- Piano-player control. A. E. Goldspink. No. 1,317,572; Sept. 30; v. 266; p. 683.
- Piano-player devices, Reed attachment for. A. W. Meyer. No. 1,304,344; May 20; v. 262; p. 414.
- Piano-player, Mechanical. F. H. Mowbray. No. 1,320,783; Nov. 4; v. 268; p. 80.
- Piano-player pneumatic action. A. E. Goldspink. No. 1,298,491; Mar. 25; v. 260; p. 677.
- Piano-players, Tracking-control mechanism for. C. E. Peterson. No. 1,307,515; June 24; v. 263; p. 522.
- Piano pneumatic, Player-. C. H. Spencer. No. 1,298,113; Mar. 25; v. 260; p. 595.
- Piano sounding-board. C. C. Meinzolt. No. 1,299,208; Apr. 1; v. 261; p. 134.
- Piano-strings, Wire-looping device for. A. Cogozzo. No. 1,310,791; July 22; v. 264; p. 610.
- Piano-truck. F. E. Nelson. No. 1,322,719; Nov. 25; v. 268; p. 610.
- Piano, Violin-. J. L. Warner. No. 1,309,004; July 8; v. 264; p. 211.
- Pianos, Automatic playing attachment for. A. Johnson, A. C. Swanson, and A. H. Utterberg. No. 1,307,052; June 17; v. 263; p. 405.
- Pianos, Automatic roll device for player-. O. M. Kennedy. No. 1,322,498; Nov. 18; v. 268; p. 518.
- Pianos, Bellows-operating mechanism for player-. J. A. Hoge. No. 1,295,989; Mar. 4; v. 260; p. 38.
- Pianos, Exhaust device for air-motor-operated player. M. Clark. No. 1,298,292; Mar. 25; v. 260; p. 635.
- Pianos, Governor for player-. R. H. Meunier. No. 1,321,117; Nov. 11; v. 268; p. 206.
- Pianos, Instrument attachment for. D. Crino. No. 1,318,975; Oct. 14; v. 267; p. 312.
- Pianos, Mechanism for player-. P. J. Meahl. No. 1,312,196; Aug. 5; v. 265; p. 65.
- Pianos, Music-desk for. J. J. Froess. No. 1,310,472; July 22; v. 264; p. 550.
- Pianos, Operating and controlling mechanism for player-. P. J. Meahl. No. 1,312,194; Aug. 5; v. 265; p. 64.
- Pianos, Pedal for player-. J. W. Dickinson. No. 1,319,050; Oct. 21; v. 267; p. 352.
- Pianos, Pianissimo device for. E. S. Votey. No. 1,313,141; Aug. 12; v. 265; p. 278.
- Pianos, Pneumatic action for player-. J. P. Rogers. No. 1,325,912; Dec. 23; v. 269; p. 628.
- Pianos, Tracker and pedal connections for player grand. O. Johnson. No. 1,307,297; June 17; v. 263; p. 449.
- Pianos, Wippen connection for player-. J. Fern. No. 1,302,647; May 6; v. 262; p. 31.
- Pianoforte-action. F. Clutsum. No. 1,301,908; Apr. 29; v. 261; p. 828.
- Pick. T. F. Bird. No. 1,297,065; Mar. 11; v. 260; p. 318.
- Pick. T. P. Huff. No. 1,321,371; Nov. 11; v. 268; p. 255.
- Pick. H. J. Williams. No. 1,307,289; June 17; v. 263; p. 447.
- Pick-mattocks, Manufacturing. S. T. Tyler. No. 1,296,235; Mar. 4; v. 260; p. 95.
- Pick-stick check-strap. J. W. Herbert and J. A. Andrews. No. 1,322,790; Nov. 25; v. 268; p. 624.
- Pick, Trench-. R. G. Hall. No. 1,323,630; Dec. 2; v. 269; p. 76.
- Picker: See—  
Berry-picker. Potato-picker.  
Cotton-picker. Stone-picker.  
Cranberry-picker. Walnut-picker.  
Fruit-picker.
- Picker-check. N. Demers. No. 1,312,960; Aug. 12; v. 265; p. 242.
- Picker-head. C. N. Wisner. No. 1,322,987; Nov. 25; v. 268; p. 661.
- Picker-stick. F. H. Hulscher. No. 1,301,701; Apr. 22; v. 261; p. 757.
- Picker-stick check. T. Carter. No. 1,295,431; Feb. 25; v. 259; p. 660.
- Picker-stick check. F. G. Cobb. No. 1,294,238; Feb. 11; v. 259; p. 326.
- Picker-stick lug connection. J. F. Demers. No. 1,292,723; Jan. 28; v. 258; p. 726.
- Picker-strap. M. B. Griffin. No. 1,304,764; May 27; v. 262; p. 532.
- Picker-waste-separating machine. T. E. Howorth. No. 1,299,185; Apr. 1; v. 261; p. 120.
- Pickling-bath. W. H. Allen. No. 1,321,182; Nov. 11; v. 268; p. 219.
- Pickling ferrous articles and electrically-regenerating the pickling-bath. A. F. Hoffman. No. 1,305,213; May 27; v. 262; p. 617.
- Picric acid, Manufacture of. A. G. Green. No. 1,299,171; Apr. 1; v. 261; p. 127.
- Pictorial, artistic, and graphic works, Reproducing. J. Leurquin. No. 1,304,071; May 20; v. 262; p. 362.
- Picture-actuating means, Motion-. H. S. Beckman. No. 1,301,357; Apr. 22; v. 261; p. 692.
- Picture and sound-reproducing device, Combined motion-. A. L. Edmison and J. Rikkelman. No. 1,301,045; Apr. 15; v. 261; p. 592.
- Picture apparatus, Motion-. S. Bardy. No. 1,316,669; Sept. 23; v. 266; p. 477.
- Picture apparatus, Motion-. H. R. Evans. No. 1,304,466; May 20; v. 262; p. 438.
- Picture apparatus, Motion-. H. R. Evans. No. 1,308,984; July 8; v. 264; p. 208.
- Picture apparatus, Motion-. C. A. L. Gehrman. No. 1,321,906; Nov. 18; v. 268; p. 406.
- Picture apparatus, Motion-. C. F. Jenkins. No. 1,302,801; May 6; v. 262; p. 60.
- Picture apparatus, Motion-. T. A. Killman. No. 1,324,122; Dec. 9; v. 269; p. 213.
- Picture apparatus, Motion-. E. E. Maggard. No. 1,308,293; July 1; v. 264; p. 52.
- Picture apparatus, Motion-. F. E. Oiler. No. 1,305,002; May 27; v. 262; p. 576.
- Picture apparatus, Motion-. S. F. Stein. No. 1,307,323; June 17; v. 263; p. 453.
- Picture apparatus, Motion-. H. Workman. No. 1,309,992; July 15; v. 264; p. 432.
- Picture apparatus, Portable motion-. J. G. R. O'Hara. No. 1,305,154; May 27; v. 262; p. 605.
- Picture, Changeable. C. W. Saalburg. No. 1,305,835; June 3; v. 263; p. 114.
- Picture curtain, Reticulated motion-. E. H. Amet. No. 1,308,468; July 1; v. 264; p. 84.
- Picture device, Motion-. J. T. Wells. No. 1,295,653; Feb. 25; v. 259; p. 712.
- Picture-film container, Motion-. G. E. Riddle and W. Queirolo. No. 1,295,372; Feb. 25; v. 259; p. 645.
- Picture-film magazine, Motion-. J. P. Burnett. No. 1,296,476; Mar. 4; v. 260; p. 147.
- Picture film, Motion-. C. J. Coleman. No. 1,293,040; Feb. 4; v. 259; p. 16.
- Picture film, Moving-. T. de Roode. No. 1,324,235; Dec. 9; v. 269; p. 235.
- Picture-film reel. C. F. Jenkins. No. 1,302,803; May 6; v. 262; p. 61.
- Picture films, Apparatus for winding motion-. R. W. Jones. No. 1,301,849; Apr. 29; v. 261; p. 816.
- Picture-films, Binder and protector for. G. Wolferrmann and E. Sohn. No. 1,319,552; Oct. 21; v. 267; p. 447.
- Picture-films, Machine for renovating. R. D. Hanish. No. 1,324,350; Dec. 9; v. 269; p. 257.
- Picture films, Method of and apparatus for feeding motion-. H. R. Evans. No. 1,309,471; July 8; v. 264; p. 298.

- Picture films, Producing colored motion-. A. T. Saunders. No. 1,317,825; Oct. 7; v. 267; p. 31.
- Picture films, Producing colored moving-. M. Hand-schielg. No. 1,316,791; Sept. 23; v. 266; p. 499.
- Picture-frame, J. Bushkovski. No. 1,308,695; July 1; v. 264; p. 126.
- Picture-frame, M. Loewenthal. No. 1,321,650; Nov. 11; v. 268; p. 307.
- Picture-frame, J. Malkevici. No. 1,296,544; Mar. 4; v. 260; p. 163.
- Picture-frame, S. S. Moore. No. 1,323,086; Nov. 25; v. 268; p. 679.
- Picture-frame holder and hanger, S. E. Douglass. No. 1,300,137; Apr. 8; v. 261; p. 371.
- Picture-frame, Knockdown, F. L. Atkinson and N. Sclar. No. 1,313,778; Aug. 19; v. 265; p. 414.
- Picture-hanger, A. M. Anderson and N. T. Norbeck. No. 1,323,808; Dec. 2; v. 269; p. 110.
- Picture-hanger, J. J. Cook. No. 1,325,621; Dec. 23; v. 269; p. 574.
- Picture-hanger, L. G. Giardino. No. 1,312,903; Aug. 12; v. 265; p. 230.
- Picture-hanger, M. B. McClung. No. 1,304,337; May 20; v. 262; p. 412.
- Picture-hanger, H. Mock. No. 1,297,584; Mar. 18; v. 260; p. 457.
- Picture-hanger, C. A. Terp. No. 1,310,096; July 15; v. 264; p. 450.
- Picture-book, J. W. Wright. No. 1,313,366; Aug. 19; v. 265; p. 336.
- Picture in colors, Moving, J. W. Berwick. No. 1,321,705; Nov. 11; v. 268; p. 318.
- Picture indicator, Moving, L. J. Bechtold. No. 1,304,010; May 20; v. 262; p. 351.
- Picture kinetoscope, Motion-, C. Uebelmesser. No. 1,291,276; Jan. 14; v. 258; p. 325.
- Picture-machine framing mechanism, Moving-, B. A. Proctor. No. 1,298,394; Mar. 25; v. 260; p. 655.
- Picture machine, Motion-, C. B. Harrington. No. 1,321,629; Nov. 11; v. 268; p. 304.
- Picture machine, Motion-, C. F. Jenkins. No. 1,305,804; June 3; v. 263; p. 108.
- Picture machine, Motion-, L. B. Larsen, O. J. Holmes, and H. G. Larsen. No. 1,293,128; Feb. 4; v. 259; p. 36.
- Picture machine, Motion-, I. McFadden. No. 1,318,889; Oct. 14; v. 267; p. 296.
- Picture machine, Motion-, F. McMillan. No. 1,326,407; Dec. 30; v. 269; p. 767.
- Picture machine, Motion-, C. J. Peterson. No. 1,324,266; Dec. 9; v. 269; p. 241.
- Picture machine, Motion-, F. Seymour. No. 1,317,042; Sept. 23; v. 266; p. 545.
- Picture machine, Motion-, F. Seymour. No. 1,317,043; Sept. 23; v. 266; p. 546.
- Picture machine, Motion-, H. A. de Vry. No. 1,309,087; July 8; v. 264; p. 227.
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- Picture machine, Motion-, H. A. de Vry. No. 1,303,543; May 13; v. 262; p. 227.
- Picture machine, Moving-, J. A. Cameron. No. 1,307,957; June 24; v. 263; p. 603.
- Picture machine, Moving-, J. A. Cameron. No. 1,319,846; Oct. 28; v. 267; p. 526.
- Picture machine, Moving-, J. A. Cameron. No. 1,319,847; Oct. 28; v. 267; p. 527.
- Picture machine, Moving-, J. A. Cameron. No. 1,324,102; Dec. 9; v. 269; p. 209.
- Picture machine, Moving-, B. A. Proctor. No. 1,298,393; Mar. 25; v. 260; p. 655.
- Picture machine, Moving-, L. R. Sereinsky. No. 1,318,610; Oct. 14; v. 267; p. 243.
- Picture machine, Moving-, J. H. Stillwaggon. No. 1,317,996; Oct. 7; v. 267; p. 64.
- Picture machines, Attachment for moving-, B. G. Dower. No. 1,307,541; June 24; v. 263; p. 527.
- Picture machines, Attachment for moving-, J. F. Reney. No. 1,299,612; Apr. 8; v. 261; p. 255.
- Picture machines, Color-filter for moving-, F. W. Hochstetter. No. 1,301,265; Apr. 22; v. 261; p. 673.
- Picture machines, Film-magazine for motion-, C. S. Webster. No. 1,297,049; Mar. 11; v. 260; p. 314.
- Picture machines, Light-diffusing shutter for moving-, D. F. McGraw. No. 1,291,971; Jan. 21; v. 258; p. 524.
- Picture machines, Mechanical movement for motion-, E. W. Clark. No. 1,304,854; May 27; v. 262; p. 549.
- Picture machines, Multiple-reel attachment for moving-, L. D. Gillette. No. 1,291,829; Jan. 21; v. 258; p. 486.
- Picture machines, Safety device for motion-, H. E. Watson. No. 1,311,863; July 29; v. 264; p. 748.
- Picture machines, Shutter for motion-, A. P. Jurgensen. No. 1,299,956; Apr. 8; v. 261; p. 332.
- Picture machines, Stop mechanism for motion-, H. Granville and F. Koch. No. 1,318,203; Oct. 7; v. 267; p. 104.
- Picture machinery and phonographic apparatus, Combined moving-, C. J. Coleman. No. 1,312,103; Aug. 6; v. 265; p. 48.
- Picture, Motion-, M. W. Thompson. No. 1,292,153; Jan. 21; v. 258; p. 569.
- Picture negatives, Producing legends in black on motion-, G. Lane. No. 1,300,178; Apr. 8; v. 261; p. 380.
- Picture-printing machine, Moving-, J. R. Hunt. No. 1,320,145; Oct. 28; v. 267; p. 582.
- Picture-projecting apparatus, I. Serrurier. No. 1,299,792; Apr. 8; v. 261; p. 297.
- Picture-projecting apparatus, J. R. White. No. 1,312,374; Aug. 5; v. 265; p. 97.
- Picture-projecting apparatus, Automatic, A. A. Bailey, Jr. No. 1,325,825; Dec. 23; v. 269; p. 612.
- Picture-projecting apparatus, Motion-, C. F. Jenkins. No. 1,311,073; July 22; v. 264; p. 661.
- Picture-projecting machine, C. F. Jenkins. No. 1,302,800; May 6; v. 262; p. 60.
- Picture-projecting machine, J. M. Kirby. No. 1,294,676; Feb. 18; v. 259; p. 463.
- Picture-projecting machine, Fire-extinguisher for, F. C. Stevens. No. 1,321,679; Nov. 11; v. 268; p. 313.
- Picture-projecting machine, Motion-, J. C. Chambers. No. 1,300,247; Apr. 15; v. 261; p. 422.
- Picture-projecting machine, Motion-, H. M. Hill. No. 1,315,224; Sept. 9; v. 266; p. 147.
- Picture-projecting machine, Motion-, P. G. O'Hara. No. 1,308,444; July 1; v. 264; p. 79.
- Picture-projecting machine, Moving-, J. R. Hunt. No. 1,320,860; Nov. 4; v. 268; p. 94.
- Picture-projecting machine, Moving-, M. L. Parret. No. 1,314,604; Sept. 2; v. 266; p. 24.
- Picture-projecting machines, Shutter for motion-, E. W. Clark. No. 1,312,722; Aug. 12; v. 265; p. 195.
- Picture-projecting apparatus, A. B. Mueller. No. 1,317,635; Sept. 30; v. 266; p. 695.
- Picture-projecting apparatus, A. B. Mueller. No. 1,317,637; Sept. 30; v. 266; p. 696.
- Picture-projecting apparatus, Motion-, A. B. Mueller. No. 1,317,636; Sept. 30; v. 266; p. 695.
- Picture-projecting machine, Moving-, F. Spaulding. No. 1,321,255; Nov. 11; v. 268; p. 233.
- Picture projector, Moving-, H. H. Momyer. No. 1,317,450; Sept. 30; v. 266; p. 659.
- Picture projector, Moving-, F. C. Taylor. No. 1,298,600; Mar. 25; v. 260; p. 700.
- Picture-projector reels, Electric signal for motion-, M. J. Felland. No. 1,300,257; Apr. 15; v. 261; p. 423.
- Picture projectors and sound-reproducing mechanism, Synchronizing means for motion-, C. W. Ebeling. No. 1,303,047; May 6; v. 262; p. 108.
- Picture projectors, Driving and retarding mechanism for moving-, B. A. Proctor. No. 1,298,390; Mar. 25; v. 260; p. 654.
- Picture projectors, Safety device for moving-, B. A. Proctor. No. 1,298,391; Mar. 25; v. 260; p. 655.
- Picture-puzzle, W. B. Staton. No. 1,300,891; Apr. 15; v. 261; p. 558.
- Picture-reflection apparatus, Motion-, H. W. Ekberg. No. 1,318,269; Oct. 7; v. 267; p. 117.
- Picture screen, Motion-, E. R. Dugan. No. 1,293,380; Feb. 4; v. 259; p. 94.
- Picture shutter, Motion-, C. F. Jenkins. No. 1,308,494; July 1; v. 264; p. 89.
- Picture-strip-reel alarm, Motion-, E. W. Hulett. No. 1,323,863; Dec. 2; v. 269; p. 120.
- Picture titles, Method of and apparatus for producing motion-, C. E. Eckels. No. 1,294,249; Feb. 11; v. 259; p. 329.
- Picture-transposing apparatus, Motion-, G. Bettini. No. 1,298,282; Mar. 25; v. 260; p. 623.
- Pictures and sound-records, Method of and apparatus for synchronously making motion-, D. O. Royster. No. 1,293,203; Feb. 4; v. 259; p. 52.
- Pictures, Apparatus for making motion-, L. S. Brainerd. No. 1,301,533; Apr. 22; v. 261; p. 725.
- Pictures, Apparatus for printing and producing moving, E. W. Hochstetter. No. 1,325,198; Dec. 16; v. 269; p. 479.
- Pictures, Apparatus for taking photographs for the stereoscopic projection of motion-, S. N. Baruch. No. 1,307,074; June 17; v. 263; p. 409.
- Pictures, Apparatus for use in taking cinematograph-, A. de Brayer. No. 1,319,698; Oct. 28; v. 267; p. 498.
- Pictures for projection upon screens, Making, D. J. Williams. No. 1,319,820; Oct. 28; v. 267; p. 521.
- Pictures, Graphophone attachment for moving, A. Dawer. No. 1,323,579; Dec. 2; v. 269; p. 67.
- Pictures in color, Producing moving, L. F. Douglass. No. 1,325,279; Dec. 16; v. 269; p. 494.
- Pictures in colors, Motion-, F. E. Ives. No. 1,320,760; Nov. 4; v. 268; p. 75.
- Pictures in colors, Producing moving, J. Shaw. No. 1,300,887; Apr. 15; v. 261; p. 557.
- Pictures, Light-regulator for projecting moving, F. W. Hochstetter. No. 1,301,264; Apr. 22; v. 261; p. 673.
- Pictures, Machine for printing films for colored motion-, J. R. Hunt. No. 1,323,767; Dec. 2; v. 269; p. 102.
- Pictures, Making motion-, L. S. Brainerd. No. 1,296,471; Mar. 4; v. 260; p. 146.
- Pictures, Means for producing cinematographic, H. Shorrock. No. 1,324,179; Dec. 9; v. 269; p. 224.
- Pictures, Means for showing speech in motion-, C. F. Pidgin. No. 1,317,725; Oct. 7; v. 267; p. 12.
- Pictures, Method and apparatus for producing colored motion-, W. V. D. Kelley. No. 1,322,794; Nov. 25; v. 268; p. 624.



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- Pictures, Method and apparatus for producing motion-  
H. A. Tolles and G. H. Ernsbarger. No. 1,308,207;  
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- Pictures, Method and apparatus for producing motion-  
W. B. Wescott. No. 1,309,672; July 15; v. 264; p. 373.
- Pictures, Method and means for producing motion-  
C. A. L. Gehrman. No. 1,323,180; Nov. 25; v. 268; p. 698.
- Pictures, Producing moving. L. S. Brainard. No.  
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- Pictures, Screen for moving. A. L. Raven. No.  
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- Pie and cake baker. B. L. Braddick. No. 1,324,297; Dec.  
9; v. 269; p. 247.
- Pie-baker. M. A. and L. P. Jackson. No. 1,316,365;  
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- Pie-carrier. S. Hubig. No. 1,310,403; July 15; v. 264;  
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- Pie-handler. S. S. Clark. No. 1,309,063; July 8; v. 264;  
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- Pie-plate. J. C. Lawson. No. 1,297,190; Mar. 11; v. 260;  
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- Pie-trimmer. L. C. Hardebeck. No. 1,326,260; Dec. 30;  
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- Pier or wharf. J. S. Williams. No. 1,317,606; Sept. 30;  
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- Pig-farrowing house. F. G. Johnson. No. 1,309,071;  
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- Pigeon-loft. A. De Corte. No. 1,301,660; Apr. 22; v.  
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ticles in. G. F. Fleckenstein. No. 1,306,757; June 17;  
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- Pigment and paint. L. E. Barton. No. 1,313,874; Aug.  
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- Pigments, Manufacture of white. A. P. Jaeger. No.  
1,317,164; Sept. 30; v. 266; p. 605.
- Piepen. H. J. Ferris. No. 1,312,242; Aug. 5; v. 265;  
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- Pile, Compound. R. H. F. Sewall. No. 1,290,371; Jan.  
7; v. 258; p. 85.
- Pile-cutting attachments, Knife-carriage for. A. F. Mc-  
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- Pile driver and puller. C. S. Boardman. No. 1,310,408;  
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- Pile-driver base. E. J. Stone. No. 1,304,119; May 20;  
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- Pile extracting, driving, and the like machine. J. Bull.  
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- Pile fabric and making same. H. J. Hope. No.  
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- Piles, Sinking reinforced concrete. J. Burns. No.  
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- Pilers, Automatic loader for tie and timber. J. O. Brad-  
ney and H. Priestler. No. 1,311,210; July 29; v. 264;  
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- Pillow. W. E. Bawden. No. 1,312,886; Aug. 12; v. 265;  
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- Pillow-sham holder. A. Guth. No. 1,322,186; Nov. 18;  
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- Pillow-tick. N. K. Billow. No. 1,321,084; Nov. 11;  
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- Pilot-burner. L. Passano. No. 1,321,547; Nov. 11; v.  
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- Pilot-light. N. G. Goreau. No. 1,302,914; May 6; v.  
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Clothes-pin. Invisible pin.  
Cotter-pin. Laundry-pin.  
Crosshead-pin. Rolling-pin.  
Curtain-pin. Safety-pin.  
Decorator's pin. Safety or shield pin.  
Drift-pin. Wrist-pin.
- Pin and disk gage, Combined. G. B. Grace. No. 1,296,950;  
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brook. No. 1,292,738; Jan. 28; v. 258; p. 730.
- Pin-setting mechanism. W. F. Barrett. No. 1,320,370;  
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- Pinion, Driving. E. G. Staude. (Reissue.) No. 14,700;  
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- Piston. G. E. Chédru. No. 1,307,895; June 24; v. 263; p. 590.
- Piston. H. Hellweg. No. 1,321,525; Nov. 11; v. 268; p. 284.
- Piston. A. Holmes. No. 1,311,124; July 22; v. 264; p. 671.
- Piston. W. P. Lowther. No. 1,298,234; Mar. 25; v. 260; p. 622.
- Piston. H. C. Marmon. No. 1,293,846; Feb. 11; v. 259; p. 234.
- Piston. M. H. Ryan. No. 1,324,272; Dec. 9; v. 269; p. 242.
- Piston. P. P. Smith, Jr. No. 1,304,615; May 27; v. 262; p. 505.
- Piston. C. L. Stancliff. No. 1,320,428; Nov. 4; v. 268; p. 14.
- Piston. R. B. Wasson. No. 1,320,188; Oct. 28; v. 267; p. 590.
- Piston and packing-ring. Z. Eckelbarger. No. 1,320,210; Oct. 28; v. 267; p. 593.
- Piston, Ball-jointed. J. A. Rose. No. 1,294,538; Feb. 18; v. 259; p. 431.
- Piston-casting. J. H. Bamberg. No. 1,296,591; Mar. 4; v. 260; p. 173.
- Piston-casting. J. H. Bamberg. No. 1,296,592; Mar. 4; v. 260; p. 174.
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- Piston construction. H. E. McKee. No. 1,311,525; July 29; v. 264; p. 779.
- Piston-controlling mechanism. H. H. Mercer. No. 1,318,867; Aug. 19; v. 265; p. 431.
- Piston, Engine. A. Spillman. No. 1,325,176; Dec. 16; v. 269; p. 475.
- Piston engine Oscillating. N. Pavia and G. Casalis. No. 1,318,228; Oct. 7; v. 267; p. 110.
- Piston engines or machines, Connecting-rod for. A. Isliker. No. 1,295,091; Feb. 18; v. 259; p. 558.
- Piston for heat-engines. E. Schneider. No. 1,306,839; June 17; v. 263; p. 365.
- Piston for internal-combustion engines. H. Junkers. No. 1,320,064; Oct. 28; v. 267; p. 567.
- Piston for internal-combustion engines. H. R. Ricardo. No. 1,294,833; Feb. 18; v. 259; p. 500.
- Piston of internal-combustion engines. W. J. Still. No. 1,323,115; Nov. 25; v. 268; p. 685.
- Piston for internal-combustion engines. E. A. Turner. No. 1,312,879; Aug. 12; v. 265; p. 226.
- Piston for internal-combustion engines. E. A. Turner. No. 1,312,880; Aug. 12; v. 265; p. 226.
- Piston for internal-combustion engines. W. J. Woodcock. No. 1,324,138; Dec. 9; v. 269; p. 216.
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- Plastic articles, Apparatus for rapidly aging solidified. D. W. B. Young. No. 1,294,016; Feb. 11; v. 259; p. 274.
- Plastic articles, Apparatus for rapidly aging solidified. D. W. B. Young. No. 1,294,591; Feb. 18; v. 259; p. 443.
- Plastic articles, Apparatus for rapidly aging solidified. D. W. B. Young. No. 1,316,262; Sept. 16; v. 266; p. 351.
- Plastic articles, Apparatus for treating. R. B. Price. No. 1,295,595; Feb. 25; v. 259; p. 698.
- Plastic articles, Apparatus for treating. R. B. Price. No. 1,295,596; Feb. 25; v. 259; p. 698.
- Plastic articles, Base for supporting molded. D. H. Applegate, Jr. No. 1,324,535; Dec. 9; v. 269; p. 293.
- Plastic articles, Making. W. J. Burns. No. 1,304,851; May 27; v. 262; p. 549.
- Plastic board, Forming. J. P. Sexton. No. 1,324,471; Dec. 9; v. 269; p. 281.
- Plastic composition. B. F. Bickel. No. 1,317,680; Oct. 7; v. 267; p. 4.
- Plastic composition. J. P. A. McCoy. No. 1,317,204; Sept. 30; v. 266; p. 613.
- Plastic composition. S. H. Rood. No. 1,322,823; Nov. 25; v. 268; p. 630.
- Plastic composition. B. W. Rote. No. 1,318,804; Oct. 14; v. 267; p. 279.
- Plastic composition. E. L. Sharpneck. No. 1,315,342; Sept. 9; v. 266; p. 169.
- Plastic composition. E. L. Sharpneck. No. 1,326,110; Dec. 23; v. 269; p. 665.
- Plastic composition. L. E. Weber. No. 1,302,739; May 6; v. 262; p. 49.
- Plastic composition and making same. G. B. Dunbar. No. 1,299,922; Apr. 8; v. 261; p. 325.
- Plastic composition and making same. G. B. Dunbar. No. 1,310,180; July 15; v. 264; p. 466.
- Plastic composition and making same. A. E. Nienstadt. No. 1,295,356; Feb. 25; v. 259; p. 642.
- Plastic composition and making same. C. E. Skinner. No. 1,299,798; Apr. 8; v. 261; p. 298.
- Plastic composition and preparing same. H. A. Levey. No. 1,295,533; Feb. 25; v. 259; p. 684.
- Plastic composition and preparing same. H. A. Levey. No. 1,316,311; Sept. 16; v. 266; p. 361.
- Plastic manifolding composition. G. Fechter. No. 1,304,291; May 20; v. 262; p. 403.
- Plastic mass and making same. E. Krause and H. Blicher. No. 1,319,666; Oct. 21; v. 267; p. 469.
- Plastic material. A. P. Galley. No. 1,321,429; Nov. 11; v. 268; p. 266.
- Plastic material. L. E. Weber. No. 1,302,740; May 6; v. 262; p. 49.
- Plastic material and making same. W. Mooser-Schless. No. 1,317,721; Oct. 7; v. 267; p. 12.
- Plastic material and making same. M. A. Popkess. No. 1,320,709; Nov. 4; v. 268; p. 65.
- Plastic material, Apparatus for forming and cutting. H. N. Duffee, A. M. Cummings, and C. C. Parker. No. 1,317,157; Sept. 30; v. 266; p. 604.
- Plastic material, Machine for forming sheets of. T. Rose. No. 1,303,966; May 20; v. 262; p. 343.
- Plastic materials, Machine for treating. H. J. Hoyt. (Reissue.) No. 14,663; June 10; v. 263; p. 303.
- Plastic materials, Supply system for. C. P. Bossert. No. 1,309,179; July 8; v. 264; p. 244.
- Plastic-mold. I. Torner and E. Tetzel, Jr. No. 1,313,355; Aug. 19; v. 265; p. 334.
- Plastic substances, Molding and ornamenting. J. M. MacDonald. No. 1,301,069; Apr. 15; v. 261; p. 598.
- Plastic substances, Process and apparatus for the treatment of. T. P. Little. No. 1,297,482; Mar. 18; v. 260; p. 435.
- Plastic tie. E. Lund. No. 1,294,131; Feb. 11; v. 259; p. 301.
- Plastic walls, Apparatus for leveling the surface of. H. P. Brown. No. 1,297,082; Mar. 11; v. 260; p. 322.
- Plastic ware, Machine for pressing and shaping. A. B. Klay. No. 1,295,760; Feb. 25; v. 259; p. 735.
- Plastic work, Spacing bar or core for. E. A. Zimmerman. No. 1,309,084; July 8; v. 264; p. 227.
- Plastics, Treating vulcanizable. R. B. Price. No. 1,309,485; July 8; v. 264; p. 301.
- Plate. F. A. Price. No. 1,321,145; Nov. 11; v. 268; p. 211.
- Plate, Adjustable striking. F. E. Wright. No. 1,297,528; Mar. 18; v. 260; p. 445.
- Plate-bending machine. M. M. McIntyre. No. 1,295,542; Feb. 25; v. 259; p. 686.
- Plate, Breast-. S. Sokol. No. 1,303,510; May 13; v. 262; p. 221.
- Plate, Chill-. A. M. Gray. No. 1,296,652; Mar. 11; v. 260; p. 223.
- Plate-cleaning machine. Tin-. S. E. Diescher. No. 1,318,483; Oct. 14; v. 267; p. 218.
- Plate-cutting apparatus. C. K. Bryce. No. 1,317,425; Sept. 30; v. 266; p. 654.
- Plate-holder kit. F. E. Wood. No. 1,297,957; Mar. 18; v. 260; p. 538.
- Plate, Interchangeable initial-. W. W. Watters. No. 1,323,339; Dec. 2; v. 269; p. 22.
- Plate-lifter. S. G. Singleton. No. 1,299,797; Apr. 8; v. 261; p. 298.
- Plate, Number-. W. H. Hetzel. No. 1,323,694; Dec. 2; v. 269; p. 88.
- Plate or pan lifter. E. Holley. No. 1,295,317; Feb. 25; v. 259; p. 633.
- Plate, Reinforced tie-. W. G. Wilson. No. 1,315,893; Sept. 9; v. 266; p. 268.
- Plate-shaping machine. A. M. Griffin. No. 1,316,300; Sept. 16; v. 266; p. 358.
- Plate, Side-closing. E. B. Campbell. No. 1,310,001; July 15; v. 264; p. 434.
- Plate-spring friction. T. H. Symington. No. 1,292,536; Jan. 28; v. 258; p. 681.
- Plate-tightener. F. N. Hallett. No. 1,320,225; Oct. 28; v. 267; p. 596.
- Plate-tightener. F. M. Krekow. No. 1,322,246; Nov. 18; v. 268; p. 470.
- Plate-tightening device. J. P. McBride. No. 1,304,895; May 27; v. 262; p. 556.
- Plate-uniting. M. Lachman. No. 1,294,680; Feb. 18; v. 259; p. 464.
- Plates, Forming composite. W. H. Kempton. No. 1,312,789; Aug. 12; v. 265; p. 208.
- Plates or metal sheets, Power-press for bending. J. Drewes. No. 1,300,704; Apr. 15; v. 261; p. 518.
- Plates or removable bridges, Clasp for. W. F. Shaw. No. 1,293,950; Feb. 11; v. 259; p. 257.
- Platen-release mechanism. B. J. Dowd. No. 1,312,024; Aug. 5; v. 265; p. 33.
- Platen-shift lock. C. Spiro. No. 1,319,807; Oct. 28; v. 267; p. 518.
- Plating-hook. O. Roedel. No. 1,308,508; July 1; v. 264; p. 91.
- Plating with metal, Apparatus for and method of. J. E. Woodbury. No. 1,291,337; Jan. 14; v. 258; p. 339.

- Platinum substitute, Composition of matter for. F. A. Fahrenwald. No. 1,296,938; Mar. 11; v. 260; p. 290.
- Player-pianos, Automatically-operated foot-pedal for. W. Schack. No. 1,304,605; May 27; v. 262; p. 503.
- Players, Expression-controlling device for pneumatic. F. J. Clark. No. 1,315,212; Sept. 9; v. 266; p. 145.
- Playhouse. A. C. Gilbert. No. 1,315,628; Sept. 9; v. 266; p. 220.
- Playing-ball. R. C. Schupphaus. No. 1,298,410; Mar. 25; v. 260; p. 658.
- Playing mechanisms, Pneumatic action for automatic. L. B. Wing. No. 1,290,461; Jan. 7; v. 258; p. 108.
- Plaything for children. E. J. Renner. No. 1,303,392; May 13; v. 262; p. 200.
- Pliable filled fabric goods. L. E. Barton and H. A. Gardner. No. 1,317,854; Oct. 7; v. 267; p. 37.
- Pliers. J. A. Briggs. No. 1,305,873; June 3; v. 263; p. 122.
- Pliers. E. F. Happensack. No. 1,320,547; Nov. 4; v. 268; p. 36.
- Pliers. A. Mae. No. 1,313,399; Aug. 19; v. 265; p. 342.
- Pliers. J. A. Olsen. No. 1,315,235; Sept. 9; v. 266; p. 149.
- Pliers. W. R. Weldie. No. 1,312,148; Aug. 5; v. 265; p. 56.
- Pliers and wrench, Combination. O. H. Mellum. No. 1,294,689; Feb. 18; v. 258; p. 466.
- Pliers, Chain-repairing. A. E. Partlow. No. 1,290,331; Jan. 7; v. 258; p. 77.
- Pliers, Cobbler's. S. Putra. No. 1,320,915; Nov. 4; v. 268; p. 105.
- Pliers, Holder for. G. W. Cole. No. 1,324,879; Dec. 16; v. 269; p. 419.
- Pliers, Holder for. H. C. Fenton. No. 1,322,297; Nov. 4; v. 268; p. 479.
- Pliers, Shaping-. D. T. Parkinson. No. 1,317,385; Sept. 30; v. 266; p. 647.
- Pliers, Shears attachment for. H. L. Howard. No. 1,321,745; Nov. 11; v. 268; p. 326.
- Pliers, Spool for. A. F. Moore. No. 1,326,766; Dec. 30; v. 269; p. 825.
- Plotting instrument, Universal. R. C. Kuldell. No. 1,321,924; Nov. 18; v. 268; p. 410.
- Plow. H. L. Barton. No. 1,292,232; Jan. 21; v. 258; p. 589.
- Plow. O. Billingsley. No. 1,321,083; Nov. 11; v. 268; p. 200.
- Plow. G. C. Bingham. No. 1,301,365; Apr. 22; v. 261; p. 694.
- Plow. T. A. Boor. No. 1,326,436; Dec. 30; v. 262; p. 763.
- Plow. M. H. Brabandt. No. 1,303,813; May 13; v. 262; p. 277.
- Plow. J. C. Bohmaker and J. Geistwhite. No. 1,324,101; Dec. 9; v. 269; p. 209.
- Plow. C. J. Caddell. No. 1,297,320; Mar. 18; v. 260; p. 403.
- Plow. W. W. Cameron. No. 1,301,539; Apr. 22; v. 261; p. 725.
- Plow. W. W. Cameron. No. 1,301,540; Apr. 22; v. 261; p. 725.
- Plow. F. E. Davis and W. E. Cameron. No. 1,308,228; July 1; v. 264; p. 41.
- Plow. R. C. Dunn. No. 1,309,468; July 8; v. 264; p. 297.
- Plow. H. E. Fudge. No. 1,315,923; Sept. 9; v. 266; p. 275.
- Plow. W. B. Grimes. No. 1,314,394; Aug. 26; v. 265; p. 566.
- Plow. F. T. Harris. No. 1,294,902; Feb. 18; v. 259; p. 516.
- Plow. C. S. Jackson. No. 1,305,867; June 3; v. 263; p. 26.
- Plow. B. W. Jackson. No. 1,308,360; July 1; v. 264; p. 64.
- Plow. R. L. Kilpatrick. No. 1,313,194; Aug. 12; v. 265; p. 288.
- Plow. E. Kopplin. No. 1,301,063; Apr. 15; v. 261; p. 596.
- Plow. F. Manning. No. 1,301,724; Apr. 22; v. 261; p. 761.
- Plow. A. J. Marshall. No. 1,307,408; June 24; v. 263; p. 502.
- Plow. P. A. McGirr. No. 1,297,377; Mar. 18; v. 260; p. 414.
- Plow. C. W. McWane. No. 1,295,545; Feb. 25; v. 259; p. 687.
- Plow. C. H. Melvin. No. 1,306,705; June 17; v. 263; p. 341.
- Plow. A. Mitchell. No. 1,307,918; June 24; v. 263; p. 595.
- Plow. C. W. Mott. No. 1,319,483; Oct. 21; v. 267; p. 435.
- Plow. J. Natterstade. No. 1,293,876; Feb. 11; v. 259; p. 240.
- Plow. E. C. and R. Nealy. No. 1,323,088; Nov. 25; v. 268; p. 680.
- Plow. W. L. Paul. No. 1,315,151; Sept. 2; v. 266; p. 123.
- Plow. L. Petroff. No. 1,309,693; July 15; v. 264; p. 377.
- Plow. F. Pilot. No. 1,324,691; Dec. 9; v. 269; p. 322.
- Plow. C. T. Ray. No. 1,297,594; Mar. 18; v. 260; p. 459.
- Plow. C. T. Ray. No. 1,297,909; Mar. 18; v. 260; p. 527.
- Plow. W. T. Richardson. No. 1,319,619; Oct. 21; v. 267; p. 460.
- Plow. A. Saltzer. No. 1,311,530; July 29; v. 264; p. 780.
- Plow. G. T. Strite. No. 1,303,518; May 13; v. 262; p. 223.
- Plow. S. A. Ware. No. 1,298,837; Apr. 1; v. 261; p. 51.
- Plow. J. C. Waters. No. 1,309,498; July 8; v. 264; p. 303.
- Plow. I. A. Weaver. No. 1,301,628; Apr. 22; v. 261; p. 741.
- Plow adjustable mounting. F. H. Bateman. No. 1,294,860; Feb. 18; v. 259; p. 507.
- Plow and cultivator motor. E. J. Goode. No. 1,298,329; Mar. 25; v. 260; p. 642.
- Plow and harrow, Combined. G. W. Goss. No. 1,320,851; Nov. 4; v. 268; p. 93.
- Plow and subsoiler, Disk. A. P. McKay. No. 1,323,887; Dec. 2; v. 269; p. 125.
- Plow and wheelbarrow, Combination hand-. J. T. Banister. No. 1,319,686; Oct. 28; v. 267; p. 495.
- Plow attachment. A. A. Belk. No. 1,326,835; Dec. 30; v. 269; p. 839.
- Plow attachment. S. P. Dorkins. No. 1,299,435; Apr. 8; v. 261; p. 214.
- Plow attachment. R. B. Nunnally. No. 1,291,615; Jan. 14; v. 258; p. 405.
- Plow attachment. J. Stirling. No. 1,313,611; Aug. 19; v. 265; p. 383.
- Plow attachment. P. E. Woodruff. No. 1,318,251; Oct. 7; v. 267; p. 114.
- Plow, Boll-weevil-destroying. N. Thomas. No. 1,297,933; Mar. 18; v. 260; p. 533.
- Plow, Cultivating-. C. E. Dombrowsky. No. 1,302,141; Apr. 29; v. 261; p. 871.
- Plow, Disk. E. M. Heylman. No. 1,298,209. Mar. 25; v. 260; p. 617.
- Plow, Disk. G. L. Hoffman. No. 1,321,040; Nov. 4; v. 268; p. 129.
- Plow, Disk. C. T. Ray. No. 1,311,773; July 29; v. 264; p. 824.
- Plow, Ditching-. S. O. Martin. No. 1,311,829; July 29; v. 264; p. 834.
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- Plow, Engine gang-. W. L. Paul. No. 1,315,150; Sept. 2; v. 266; p. 123.
- Plow, Engine gang-. M. Sklovski. No. 1,299,044; Apr. 1; v. 261; p. 98.
- Plow, Gang-. J. B. Bartholomew. No. 1,303,232; May 13; v. 262; p. 172.
- Plow, Gang-. A. Carpenter. No. 1,308,744; July 1; v. 264; p. 135.
- Plow, Gang-. W. S. Graham. No. 1,295,479; Feb. 25; v. 259; p. 670.
- Plow, Gang-. C. W. Michael. No. 1,302,403; Apr. 29; v. 261; p. 921.
- Plow, Gang-. W. N. Springer. No. 1,312,281; Aug. 5; v. 265; p. 79.
- Plow, Gang-. A. J. Wakefield. No. 1,318,036; Oct. 7; v. 267; p. 42.
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- Plow, Hand-. W. A. Hancock. No. 1,323,184; Nov. 25; v. 268; p. 690.
- Plow-hitch, Adjustable tractor. C. V. Siegert. No. 1,320,937; Nov. 4; v. 268; p. 109.
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- Plow-lift. W. H. C. Higgins, Jr. No. 1,300,392; Apr. 15; v. 261; p. 453.
- Plow-lift, Automatic power-operated. G. T. Strite. No. 1,303,516; May 13; v. 262; p. 222.
- Plow lift, Power-. W. L. Walton. No. 1,310,453; July 22; v. 264; p. 546.
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- Plow, Motor-. C. T. Ray. No. 1,297,908; Mar. 18; v. 260; p. 527.
- Plow, Motor-. L. F. Witherspoon. No. 1,322,988; Nov. 25; v. 268; p. 661.
- Plow, Multiple. C. M. Motte. No. 1,310,539; July 22; v. 264; p. 562.
- Plow or analogous farm-machine for enabling it to be operated by motor. A. Blanchard. No. 1,298,870; Apr. 1; v. 261; p. 58.
- Plow or apparatus for breaking the soil between the stems of vines, &c. J. A. Albin. No. 1,316,667; Sept. 23; v. 266; p. 477.
- Plow or planter, Lister. H. S. Dickinson. No. 1,318,979; Oct. 14; v. 267; p. 313.
- Plow, Peanut cultivating and harvesting. L. R. Beach. No. 1,290,490; Jan. 7; v. 258; p. 115.
- Plow, Power-lift gang-. R. C. Caughey. No. 1,296,266; Mar. 4; v. 260; p. 103.
- Plow, Pulverizing-. R. R. Dupler. No. 1,297,117; Mar. 11; v. 260; p. 329.



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- Plow, Reversible tractor-. R. Tinker. No. 1,295,938; Mar. 4; v. 260; p. 27.
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- Plow, Rotary. L. Founesbeck. No. 1,300,595; Apr. 15; v. 261; p. 495.
- Plow share or lay holder. G. N. Kinsman. No. 1,312,696; Aug. 12; v. 265; p. 190.
- Plow, Sidehill-. C. W. Reynolds. No. 1,292,514; Jan. 28; v. 258; p. 675.
- Plow, Snow-. C. W. Morris. No. 1,307,410; June 24; v. 263; p. 502.
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- Plow subsoiler attachment. C. A. Colvin and J. O. Goddard. No. 1,324,731; Dec. 9; v. 269; p. 330.
- Plow, Tractor-. C. M. Dodson. No. 1,324,387; Dec. 9; v. 269; p. 264.
- Plow, Tractor-. W. A. Gilfillan. No. 1,319,063; Oct. 21; v. 267.
- Plow, Tractor-. W. H. Himes. No. 1,316,235; Sept. 16; v. 266; p. 345.
- Plow, Tractor-. J. B. Mason. No. 1,298,989; Apr. 1; v. 261; p. 86.
- Plow, Tractor-. F. Potter. No. 1,321,551; Nov. 11; v. 268; p. 289.
- Plow, Tractor-. A. W. Reynolds. No. 1,301,744; Apr. 22; v. 261; p. 765.
- Plow, Tractor cut-out. J. T. Onstott. No. 1,301,305; Apr. 22; v. 261; p. 681.
- Plow-tractor, stop draft-gear. B. F. Umbower. No. 1,307,383; June 24; v. 263; p. 498.
- Plow, Trench-. L. Vomoell. No. 1,291,294; Jan. 14; v. 258; p. 329.
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- Plow, Wheel-. H. S. Dickinson. No. 1,316,698; Sept. 23; v. 266; p. 483.
- Plow, Wheel garden-. C. E. Askue. No. 1,324,719; Dec. 9; v. 269; p. 328.
- Plow, Wheeled. H. S. Dickinson. No. 1,300,824; Apr. 15; v. 261; p. 544.
- Plow, Wheeled. H. S. Dickinson. No. 1,316,694; Sept. 23; v. 266; p. 482.
- Plow, Wheeled. H. S. Dickinson. No. 1,318,978; Oct. 14; v. 267; p. 313.
- Plow, Wheeled. C. Esping. No. 1,302,339; Apr. 29; v. 261; p. 908.
- Plow, Wheeled. O. W. Howard. No. 1,296,081; Mar. 4; v. 260; p. 61.
- Plow, Wheeled. B. B. Wallace. No. 1,303,427; May 13; v. 262; p. 206.
- Plows, Adjustable clevis attachment for. L. S. Hypes. No. 1,311,230; July 29; v. 264; p. 723.
- Plows and other agricultural implements and vehicles, Raising, lowering, and depth regulation of. E. Moss. No. 1,309,299; July 8; v. 264; p. 266.
- Plows and other tools, Yielding mount for. E. Dunlap. No. 1,313,802; Aug. 19; v. 265; p. 418.
- Plows, Apparatus for holding plastic material on. G. P. A. Weisenborn. No. 1,303,432; May 13; v. 262; p. 207.
- Plows, Attachment for. J. H. Rizer. No. 1,296,319; Mar. 4; v. 260; p. 114.
- Plows, Automatic cultivator attachment for. O. W. Johnson. No. 1,307,672; June 24; v. 263; p. 549.
- Plows, Combined seeding and cultivating attachment for. W. R. White and A. B. Acrea. No. 1,305,850; June 3; v. 263; p. 117.
- Plows, Draft adjustment for. E. S. Smith. No. 1,307,795; June 24; v. 263; p. 572.
- Plows, Harrow attachment for. W. O. Long. No. 1,314,678; Sept. 2; v. 266; p. 39.
- Plows, Lift mechanism for gang-. H. W. Fellows. No. 1,319,466; Oct. 21; v. 267; p. 432.
- Plows, Plow-lifting device for gang-. J. A. Bergren. No. 1,296,039; Mar. 4; v. 260; p. 51.
- Plows, Power lift mechanism for. H. W. Fellows. No. 1,319,467; Oct. 21; v. 267; p. 432.
- Plows, Roller attachment for gang-. D. Plumer. No. 1,298,385; Mar. 25; v. 260; p. 653.
- Plows, Sod-turning attachment for. J. Hughes. No. 1,316,722; Sept. 23; v. 266; p. 487.
- Plows, Subsoiler attachment for. H. C. Dunning. No. 1,323,032; Nov. 25; v. 268; p. 669.
- Plowing-cylinder, Rotary. C. C. Reed. No. 1,318,920; Oct. 14; v. 267; p. 302.
- Plowing device. G. C. Smith. No. 1,324,937; Dec. 16; v. 269; p. 430.
- Plowing-machine. L. Galardi and L. Patuzzo. No. 1,325,244; Dec. 16; v. 269; p. 487.
- Plowing-machine. E. M. Sterry. No. 1,309,969; July 15; v. 264; p. 428.
- Plowing-machine, Automatic self-propelled. G. B. McFarland. No. 1,291,969; Jan. 21; v. 258; p. 524.
- Plowing machine, Soil-. W. W. Hartsough. No. 1,290,986; Jan. 14; v. 258; p. 259.
- Plowshare. G. Farrell. No. 1,294,434; Feb. 18; v. 259; p. 408.
- Plowshare. W. H. Lee. No. 1,292,336; Jan. 21; v. 258; p. 613.
- Plowshare. F. R. McCarty. No. 1,323,480; Dec. 2; v. 269; p. 49.
- Plowshare. W. R. Thomas. No. 1,303,129; May 6; v. 262; p. 124.
- Plowshare. H. Vanderwilt. No. 1,318,621; Oct. 14; v. 267; p. 245.
- Plowshare edge, Detachable. P. A. Nordquist. No. 1,307,790; June 24; v. 263; p. 571.
- Plowshare-frame. A. Hollenhorst. No. 1,302,555; May 6; v. 262; p. 14.
- Plowshare-retaining means. G. E. Needham. No. 1,300,453; Apr. 15; v. 261; p. 465.
- Plucking implement. A. F. Glaser and J. Olsen. No. 1,315,829; Sept. 9; v. 266; p. 256.
- Plug. D. D. Gordon. No. 1,320,135; Oct. 28; v. 267; p. 580.
- Plug. E. O. Kunkel. No. 1,317,197; Sept. 30; v. 266; p. 611.
- Plug. R. G. Little. No. 1,322,493; Nov. 18; v. 268; p. 517.
- Plug, Air-pressure. M. J. Bacon. No. 1,292,988; Feb. 4; v. 259; p. 4.
- Plug and receptacle. A. H. Fargo. No. 1,311,266; July 29; v. 264; p. 730.
- Plug and stopper, Combined. F. J. Fairchild. No. 1,300,593; Apr. 15; v. 261; p. 495.
- Plug and switch, Combined electric. D. M. Edwards. No. 1,299,926; Apr. 8; v. 261; p. 325.
- Plug, Attachment-. R. B. Benjamin. No. 1,300,812; Apr. 15; v. 261; p. 542.
- Plug, Attachment-. W. Goetzelman. No. 1,294,444; Feb. 18; v. 259; p. 411.
- Plug, Attachment-. W. Ile. No. 1,313,089; Aug. 12; v. 265; p. 267.
- Plug, Attachment-. C. J. Klein. No. 1,312,551; Aug. 12; v. 265; p. 161.
- Plug, Attachment-. W. A. Stacey. No. 1,292,911; Jan. 28; v. 258; p. 770.
- Plug, Attachment-. C. A. Vetter. No. 1,299,271; Apr. 1; v. 261; p. 149.
- Plug, Clear-out. C. E. Gate. No. 1,304,174; May 20; v. 262; p. 380.
- Plug connector, Swivel-. E. Dewald, Sr. No. 1,316,561; Sept. 23; v. 266; p. 456.
- Plug, Contact-. W. J. Koenig. No. 1,320,242; Oct. 28; v. 267; p. 600.
- Plug, Electric attachment-. C. Zeigler. No. 1,298,623; Mar. 25; v. 260; p. 705.
- Plug-gage. E. J. Bryant. (Reissue.) No. 14,743; Oct. 28; v. 267; p. 624.
- Plug-gage. E. Gairing. No. 1,298,197; Mar. 25; v. 260; p. 614.
- Plug, Ignition-. G. V. Nolte and J. E. Smith. No. 1,293,520; Feb. 4; v. 259; p. 127.
- Plug, Plumber's. E. E. Robinson. No. 1,292,069; Jan. 21; v. 258; p. 548.
- Plug, Puncture-. W. C. Huntoon. No. 1,310,831; July 22; v. 264; p. 617.
- Plug, Quick-service attachment-. A. C. Kong and W. C. Kam. No. 1,304,491; May 20; v. 262; p. 443.
- Plug receptacle, Electric-. W. Ile. No. 1,300,290; Apr. 15; v. 261; p. 426.
- Plug-receptacle for use with rugs. H. R. Sargent. No. 1,313,120; Aug. 12; v. 265; p. 273.
- Plug, Separable. J. J. Kenney. No. 1,297,179; Mar. 11; v. 260; p. 342.
- Plug, Separable. C. A. Vetter. No. 1,322,075; Nov. 18; v. 268; p. 437.
- Plug, Socket-. H. T. Thomas. No. 1,323,659; Dec. 2; v. 269; p. 81.
- Plug, Socket and attachment. W. V. D. Kelley. No. 1,320,150; Oct. 28; v. 267; p. 583.
- Plug, Swivel attachment-. J. J. Kenney. No. 1,290,229; Jan. 7; v. 258; p. 52.
- Plug, Swivel attachment-. O. Kessler. No. 1,325,096; Dec. 16; v. 269; p. 459.
- Plug, Testing. F. J. Moore. No. 1,324,261; Dec. 9; v. 269; p. 240.
- Plumb, level, and mitering device, Combination. W. H. Spanier. No. 1,317,052; Sept. 23; v. 266; p. 548.
- Plumbing-fixture wall connection. W. U. Griffiths. No. 1,291,849; Jan. 21; v. 258; p. 492.
- Plunger-cups, Making. R. Conrader. No. 1,294,405; Feb. 18; v. 259; p. 400.
- Plural-part mold. J. W. Arthur. No. 1,315,200; Sept. 9; v. 266; p. 143.
- Plush and similar materials, Machine for ornamenting. F. W. Moore. No. 1,294,516; Feb. 18; v. 259; p. 426.
- Pneumatic brake, Electric. W. V. Turner. No. 1,294,974; Feb. 18; v. 259; p. 531.
- Pneumatic brake, Electrically-controlled. E. H. Dewson. No. 1,299,144; Apr. 1; v. 261; p. 120.
- Pneumatic cleaner. G. W. Allen. No. 1,305,242; June 3; v. 263; p. 3.
- Pneumatic control apparatus. W. G. Haas. No. 1,303,297; May 13; v. 262; p. 183.
- Pneumatic control of various mechanisms. W. G. Haas. No. 1,291,488; Jan. 14; v. 258; p. 375.
- Pneumatic conveyance of materials, Apparatus for. J. Westly. No. 1,308,464; July 1; v. 264; p. 83.
- Pneumatic cushion. W. A. Gibbons. No. 1,321,301; Nov. 11; v. 268; p. 242.
- Pneumatic-despatch-tube apparatus. A. W. Pearsall. No. 1,311,617; July 29; v. 264; p. 790.

- Pneumatic-despatch-tube apparatus. E. B. Perrine. No. 1,305,403; June 3; v. 263; p. 33.
- Pneumatic-despatch tubes, Coupling for. J. G. Maclaren. No. 1,302,944; May 6; v. 262; p. 88.
- Pneumatic implement. O. O. App. No. 1,319,034; Oct. 21; v. 267; p. 349.
- Pneumatic jack. L. A. Fleury. No. 1,295,471; Feb. 25; v. 259; p. 669.
- Pneumatic mat. D. W. Brown. No. 1,296,359; Mar. 4; v. 260; p. 123.
- Pneumatic motor. A. P. Gustafson. No. 1,325,500; Dec. 16; v. 269; p. 534.
- Pneumatic motor. G. W. Wallin. No. 1,306,159; June 10; v. 263; p. 205.
- Pneumatic roll. G. A. Lawrence. No. 1,314,342; Aug. 26; v. 265; p. 555.
- Pneumatic separator. W. G. Jopson. No. 1,311,973; Aug. 5; v. 265; p. 23.
- Pneumatic separator. H. M. Plaisted. No. 1,311,358; July 29; v. 264; p. 747.
- Pneumatic separator. F. H. Quade, Jr. No. 1,306,024; June 10; v. 263; p. 180.
- Pneumatic shovel. W. Cole. No. 1,321,983; Nov. 18; v. 268; p. 420.
- Pneumatic spring. J. Hofmann. No. 1,300,727; Apr. 15; v. 261; p. 523.
- Pneumatic switch. W. E. Haskell. No. 1,297,687; Mar. 18; v. 260; p. 479.
- Pneumatic tools, &c., Eccentric for. L. Sykes. No. 1,318,818; Oct. 14; v. 267; p. 282.
- Pneumatic tube or chute. H. P. Kraft. No. 1,290,758; Jan. 7; v. 258; p. 180.
- Pneumatic-tube system. J. S. Black. No. 1,316,077; Sept. 16; v. 266; p. 316.
- Pneumatically-operated elevating mechanism. F. W. Hogg. No. 1,294,266; Feb. 11; v. 259; p. 332.
- Pocket. H. Eloesser. No. 1,302,334; Apr. 29; v. 261; p. 907.
- Pocket. E. O. Fellroth. No. 1,292,741; Jan. 28; v. 258; p. 731.
- Pocket and hose-supporter, Combined secret. H. L. Peterson. No. 1,313,229; Aug. 12; v. 265; p. 295.
- Pocket attachment. Garment-. O. D. Bell. No. 1,319,558; Oct. 21; v. 267; p. 449.
- Pocket blotting device. E. Chicherio. No. 1,326,324; Dec. 30; v. 269; p. 742.
- Pocket-book. E. Hokanson. No. 1,294,267; Feb. 11; v. 259; p. 332.
- Pocket-book. W. A. Smith. No. 1,305,569; June 3; v. 263; p. 65.
- Pocket-book, Lady's. J. Stember. No. 1,307,324; June 17; v. 263; p. 454.
- Pocket-case. J. W. Davis. No. 1,317,689; Oct. 7; v. 267; p. 6.
- Pocket check-protector. G. McNeel. No. 1,298,073; Mar. 25; v. 260; p. 587.
- Pocket-closure. J. H. Clark. No. 1,310,282; July 15; v. 264; p. 484.
- Pocket-comb. J. H. Friedt. No. 1,323,463; Dec. 2; v. 269; p. 45.
- Pocket-cutlery. O. L. Hemming. No. 1,298,944; Apr. 1; v. 261; p. 75.
- Pocket, Detachable. O. Lundberg and J. O. Harris. No. 1,310,125; July 15; v. 264; p. 456.
- Pocket flash-light. D. A. Runion. No. 1,321,153; Nov. 11; v. 268; p. 213.
- Pocket for coats or other garments. F. Sturdy. No. 1,308,999; July 8; v. 264; p. 210.
- Pocket Garment-. W. Weiss. No. 1,316,526; Sept. 16; v. 266; p. 402.
- Pocket-knife. G. V. Rasmussen. No. 1,319,532; Oct. 21; v. 267; p. 444.
- Pocket-lock. A. Trushon. No. 1,291,270; Jan. 14; v. 258; p. 323.
- Pocket lock, Vest-. L. Bach and E. Kubler. No. 1,302,890; May 6; v. 262; p. 79.
- Pocket memo-case. H. Metcalfe. No. 1,308,437; July 1; v. 264; p. 78.
- Pocket-orderly. G. H. Follows. No. 1,313,374; Aug. 19; v. 265; p. 338.
- Pocket, Overall-. D. S. Carter. No. 1,299,552; Apr. 8; v. 261; p. 241.
- Pocket, Safety-. J. C. Darst. No. 1,321,289; Nov. 11; v. 268; p. 239.
- Pocket, Safety-. W. E. Diehl. No. 1,296,168; Mar. 4; v. 260; p. 82.
- Pocket safety device. F. Lindeen. No. 1,319,016; Oct. 14; v. 267; p. 320.
- Pocket, Safety watch-. J. Ternquist and E. Tragardh. No. 1,308,378; July 1; v. 264; p. 68.
- Pocket, Trousers safety-. A. G. Paine. No. 1,310,210; July 15; v. 264; p. 271.
- Pockets, Safety attachment for. H. Abramovitch. No. 1,306,296; June 10; v. 263; p. 233.
- Pocketed carrier. E. A. Sisson. No. 1,310,377; July 15; v. 264; p. 501.
- Pocketed-carrier equipment. E. A. Sisson. No. 1,294,840; Feb. 18; v. 259; p. 501.
- Pointing-machine. A. L. Hansen. No. 1,318,378; Oct. 14; v. 267; p. 198.
- Poison-containing trap. W. Hedrich and W. Stock. No. 1,302,160; Apr. 29; v. 261; p. 874.
- Poison-containing trap. W. Hedrich and W. Stock. (Reissue.) No. 14,782; Dec. 30; v. 269; p. 851.
- Poison-distributor. A. U. Bright. No. 1,321,360; Nov. 11; v. 268; p. 253.
- Poke, Animal-. L. Berry. No. 1,322,998; Nov. 25; v. 268; p. 663.
- Poke, Animal-. G. W. Knox. No. 1,322,120; Nov. 18; v. 268; p. 445.
- Poke, Animal-. L. J. Lynch. No. 1,298,985; Apr. 1; v. 261; p. 86.
- Poke, Animal-. B. F. C. Morris. No. 1,314,532; Sept. 2; v. 266; p. 10.
- Poke, Animal-. F. A. Schroeder. No. 1,300,657; Apr. 15; v. 261; p. 508.
- Poke, Animal-. F. L. Thompson. No. 1,295,815; Feb. 25; v. 259; p. 748.
- Poker and clinker-extractor. G. Selander. No. 1,324,986; Dec. 16; v. 269; p. 439.
- Polarity-reversing switch. S. F. Briggs. No. 1,322,870; Nov. 25; v. 268; p. 639.
- Polarized signaling mechanism. D. S. Wilson. No. 1,300,539; Apr. 15; v. 261; p. 484.
- Pole-anchoring base. H. James. No. 1,290,563; Jan. 7; v. 258; p. 133.
- Pole and bracket therefor, Supporting-. T. E. Crecelius. No. 1,299,556; Apr. 8; v. 261; p. 241.
- Pole-changing switch. E. E. Bair and J. E. Stout. No. 1,294,599; Feb. 18; v. 259; p. 445.
- Pole-erector. J. C. Nyrop. No. 1,317,816; Oct. 7; v. 267; p. 29.
- Pole-jack. W. B. Templeton. No. 1,325,963; Dec. 23; v. 269; p. 637.
- Pole, Thill-. R. Weise. No. 1,296,145; Mar. 4; v. 260; p. 76.
- Pole, Towing-. I. A. Weaver. No. 1,290,813; Jan. 7; v. 258; p. 192.
- Poles, Cross-arm support for. E. Heydon. No. 1,316,952; Sept. 23; v. 266; p. 528.
- Polish. R. Bates. No. 1,305,684; June 3; v. 263; p. 86.
- Polish. A. De Bary, Jr. No. 1,301,823; Apr. 29; v. 261; p. 811.
- Polishing and burnishing real and artificial precious stones, Machine for. E. Challet. No. 1,293,334; Feb. 4; v. 259; p. 84.
- Polishing and finishing composition. G. H. Iwamoto. No. 1,303,672; May 13; v. 262; p. 251.
- Polishing-machine. C. J. Coleman. No. 1,313,260; Aug. 19; v. 265; p. 317.
- Polishing-machine. W. Eichberger and E. Watson. No. 1,294,430; Feb. 18; v. 259; p. 406.
- Polishing-machine. J. G. C. Mantle. No. 1,313,402; Aug. 19; v. 265; p. 343.
- Polishing-machines, Roll for. C. H. J. Dilg. No. 1,323,969; Dec. 2; v. 269; p. 140.
- Polishing-wheel. D. F. McGovern. No. 1,296,985; Mar. 11; v. 260; p. 300.
- Polishing-wheel. S. H. Mills. No. 1,302,404; Apr. 29; v. 261; p. 921.
- Polyhedrons, Blank for forming hollow. A. H. Wheeler. No. 1,292,188; Jan. 21; v. 258; p. 577.
- Polyphase generators, Sender for Hertzian waves utilizing. V. Bouchardon. No. 1,302,129; Apr. 29; v. 261; p. 869.
- Polyphase motor. V. A. Fynn. No. 1,304,957; May 27; v. 262; p. 568.
- Pontoons, Form or mold for making. G. Y. Pocock. No. 1,295,202; Feb. 25; v. 259; p. 607.
- Pontoons, Form or mold for making. G. Y. Pocock. No. 1,295,203; Feb. 25; v. 259; p. 607.
- Pool-ball triangle. F. Hornbostel. No. 1,299,471; Apr. 8; v. 261; p. 223.
- Pool or billiards, Device for use in playing. W. H. Harrison. No. 1,299,720; Apr. 8; v. 261; p. 279.
- Pool-playing, Sectional rail for. H. W. Woods. No. 1,311,671; July 29; v. 264; p. 805.
- Pool-table. H. Englehart. No. 1,297,815; Mar. 18; v. 260; p. 507.
- Porcelain, Molded object in imitation of. M. Pontio. No. 1,293,191; Feb. 4; v. 259; p. 50.
- Porch-closure. J. O. Weiss. No. 1,296,243; Mar. 4; v. 260; p. 97.
- Portable buildings, Folding frame for. M. Rasmussen. No. 1,305,306; June 3; v. 263; p. 15.
- Portable carrier. N. Orloff. No. 1,307,597; June 24; v. 263; p. 536.
- Portable drill. C. Halbreich. No. 1,316,027; Sept. 16; v. 266; p. 307.
- Portable drill. C. Halbreich. No. 1,316,028; Sept. 16; v. 266; p. 307.
- Portable elevator. H. J. Carson. No. 1,294,397; Feb. 18; v. 259; p. 398.
- Portable elevator. H. J. Carson. (Reissue.) No. 14,622; Apr. 1; v. 261; p. 180.
- Portable heater. W. A. Cook. No. 1,293,044; Feb. 4; v. 259; p. 17.
- Portable heater. J. C. Tate. No. 1,326,222; Dec. 30; v. 269; p. 723.
- Portable house. R. I. Johns. No. 1,296,084; Mar. 4; v. 260; p. 61.
- Portable house. N. J. MacDonald. No. 1,297,379; Mar. 18; v. 260; p. 414.



*Alphabetical list of inventions—Continued.*

- Portable house. J. P. McInerney. No. 1,312,700; Aug. 12; v. 265; p. 191.
- Portable housing structure. W. A. Wilcox. No. 1,305,576; June 3; v. 263; p. 66.
- Portable light. J. D. Newton. No. 1,305,151; May 27; v. 262; p. 605.
- Portable light. J. D. Newton. No. 1,320,902; Nov. 4; v. 268; p. 103.
- Portable turnout-switch. R. E. Bridges. No. 1,315,702; Sept. 9; v. 266; p. 232.
- Positioning device. E. J. Schendel. No. 1,290,789; Jan. 7; v. 258; p. 187.
- Positioning device. H. W. Winter. No. 1,294,012; Feb. 11; v. 259; p. 273.
- Positioning mechanism. B. A. Linderman. No. 1,316,051; Sept. 16; v. 266; p. 311.
- Post: See—
- |                |                         |
|----------------|-------------------------|
| Concrete post. | Sectional post.         |
| Fence-post.    | Sign and lighting post. |
| Hinge-post.    | Window-post.            |
| Newel-post.    |                         |
- Post-card. S. E. Stout. No. 1,303,842; May 13; v. 262; p. 232.
- Post-clamp. R. L. Herbst and L. Morack. No. 1,309,941; July 15; v. 264; p. 423.
- Post-drill and portable hand-drill, Combination. O. A. Osmondson. No. 1,296,691; Mar. 11; v. 260; p. 233.
- Post-driving head. J. H. Downs. No. 1,301,666; Apr. 22; v. 261; p. 749.
- Post fence-fastener. W. G. Jernegan. No. 1,293,106; Feb. 4; v. 259; p. 31.
- Post-hole borer. J. R. Miller. No. 1,316,497; Sept. 16; v. 266; p. 396.
- Post-hole digger. R. C. Fraser. No. 1,305,792; June 3; v. 263; p. 106.
- Post-hole digger. P. J. Malbon, Jr. No. 1,322,920; Nov. 25; v. 268; p. 648.
- Post-hole-drilling machine. A. T. Niswanger. No. 1,295,574; Feb. 25; v. 259; p. 693.
- Post-hole-drilling machine. A. T. Niswanger. No. 1,295,575; Feb. 25; v. 259; p. 693.
- Post-mold. W. A. Hess. No. 1,313,893; Aug. 26; v. 265; p. 469.
- Post of concrete or other material. H. Schluter. No. 1,299,787; Apr. 8; v. 261; p. 296.
- Post-office box. M. J. Porter. No. 1,314,363; Aug. 26; v. 265; p. 560.
- Post-puller. H. Magnan. No. 1,295,547; Feb. 25; v. 259; p. 687.
- Post-support. A. C. Morris. No. 1,292,012; Jan. 21; v. 258; p. 534.
- Post-setting device. J. H. Osten. No. 1,298,379; Mar. 25; v. 260; p. 652.
- Postal franking-machine. E. Moss. No. 1,292,850; Jan. 28; v. 258; p. 756.
- Posting, Mechanical. C. J. Dunbar. No. 1,313,588; Aug. 19; v. 265; p. 378.
- Postmarking-machine. R. M. Simpson. No. 1,299,249; Apr. 1; v. 261; p. 144.
- Pot: See—
- |             |                     |
|-------------|---------------------|
| Coffee-pot. | Tea and coffee pot. |
| Flower-pot. | Tea or coffee pot.  |
| Glue-pot.   |                     |
- Pot-lifter and lid-holder. B. Swoboda. No. 1,319,433. Oct. 21; v. 267; p. 425.
- Pot-sweep. J. A. Kuhns. No. 1,323,478; Dec. 2; v. 269; p. 48.
- Potash and cement, Manufacture of. A. C. Spencer. No. 1,312,592; Aug. 12; v. 265; p. 170.
- Potash and the like, Extracting. A. B. Andrews. No. 1,296,035; Mar. 4; v. 260; p. 50.
- Potash, Art of recovering. W. Hoskins. No. 1,307,127; June 17; v. 263; p. 418.
- Potash from leucite, Recovering. F. A. Rody. No. 1,325,881; Dec. 23; v. 269; p. 623.
- Potassium and aluminium compounds, Recovery of. M. Hauber, Jr. No. 1,323,764; Dec. 2; v. 269; p. 101.
- Potassium-bearing silicates, Treating. W. Glaeser. No. 1,323,464; Dec. 2; v. 269; p. 46.
- Potassium carbonate, Manufacture of. E. D. Chaplin. No. 1,325,713; Dec. 23; v. 269; p. 592.
- Potassium chlorid and borax from certain dry salts, Separately obtaining. N. Wrinkle and W. A. Kuhnert. No. 1,316,755; Sept. 23; v. 266; p. 494.
- Potassium chlorid, Making. H. Blumenberg, Jr. No. 1,296,461; Mar. 4; v. 260; p. 144.
- Potassium-compound-recovering apparatus. H. M. Hiner. No. 1,290,194; Jan. 7; v. 258; p. 43.
- Potassium compounds from cement-kiln gases, Apparatus for recovering. H. Blumenberg, Jr. No. 1,297,639; Mar. 18; v. 260; p. 469.
- Potassium compounds from waste gases of cement-kilns, &c., Recovering. H. Blumenberg, Jr. No. 1,296,463; Mar. 4; v. 260; p. 144.
- Potassium compounds from waste gases of cement-kilns, &c., Recovering. H. Blumenberg, Jr. No. 1,296,466; Mar. 4; v. 260; p. 145.
- Potassium compounds, Obtaining. C. F. von Kolnitz. No. 1,296,141; Mar. 4; v. 260; p. 75.
- Potassium compounds, Producing. H. E. Brookby. No. 1,297,078; Mar. 11; v. 260; p. 321.
- Potassium compounds, Treating cement mixtures for the recovery of. H. Blumenberg, Jr. No. 1,296,464; Mar. 4; v. 260; p. 145.
- Potassium from its insoluble compounds, Extracting. F. D. S. Robertson. No. 1,317,524; Sept. 30; v. 266; p. 673.
- Potassium from minerals, Extracting. H. Blumenberg, Jr. No. 1,296,458; Mar. 4; v. 260; p. 143.
- Potassium hydrate from green sand, Producing. B. A. Peacock. No. 1,309,744; July 15; v. 264; p. 387.
- Potassium nitrate, Making. H. Blumenberg, Jr. No. 1,297,640; Mar. 18; v. 260; p. 469.
- Potassium nitrate, Producing. H. Blumenberg, Jr. No. 1,296,460; Mar. 4; v. 260; p. 144.
- Potassium salts from cement-kilns, Apparatus for recovering. H. Blumenberg, Jr. No. 1,296,462; Mar. 4; v. 260; p. 144.
- Potassium salts from commercial nitrate of soda containing such salts, Separation and recovery of. F. A. Freeth and H. E. Cocksedge. No. 1,300,947; Apr. 15; v. 261; p. 570.
- Potassium salts from feldspar, Extracting. H. Blumenberg, Jr. No. 1,296,457; Mar. 4; v. 260; p. 143.
- Potassium salts, Producing. H. Blumenberg, Jr. No. 1,296,459; Mar. 4; v. 260; p. 143.
- Potassium sodium sulfate from saline liquors. G. B. Burnham. No. 1,317,954; Oct. 7; v. 267; p. 56.
- Potassium sulfate, Producing. H. Blumenberg, Jr. No. 1,297,638; Mar. 18; v. 260; p. 469.
- Potato-bin, Portable. H. H. Hoops. No. 1,317,577; Sept. 30; v. 266; p. 684.
- Potato-bug destroyer. A. Julien. No. 1,320,237; Oct. 28; v. 267; p. 599.
- Potato-cutter. J. E. Todd. No. 1,320,294; Oct. 28; v. 267; p. 610.
- Potato cutter and planter. J. E. Paulson. No. 1,326,613; Dec. 30; v. 269; p. 797.
- Potato cutter, Seed. P. R. Madison. No. 1,322,709; Nov. 25; v. 268; p. 609.
- Potato-cutting machine. B. O. Cuddigan. (Reissue.) No. 14,704; Aug. 12; v. 265; p. 297.
- Potato-digger. L. A. Aspinwall. No. 1,319,505; Oct. 21; v. 267; p. 439.
- Potato-digger. P. Rasmussen. No. 1,315,410; Sept. 9; v. 266; p. 181.
- Potato-digger. P. A. Yatzuk. No. 1,300,090; Apr. 8; v. 261; p. 362.
- Potato-digger bunching attachment. D. H. Schlaegel. No. 1,296,562; Mar. 4; v. 260; p. 167.
- Potato-digging attachment. H. J. Austin. No. 1,295,671; Feb. 25; v. 259; p. 716.
- Potato-digging machine. C. M. C. Barrett. No. 1,321,782; Nov. 11; v. 268; p. 333.
- Potato-digging machine. J. A. Brown. No. 1,298,109; Mar. 25; v. 260; p. 608.
- Potato-digging machine. W. W. Lynes. No. 1,301,857; Apr. 29; v. 261; p. 817.
- Potato-fork. A. L. K. H. Bekke. No. 1,296,738; Mar. 11; v. 260; p. 244.
- Potato-grader. A. C. Morse. No. 1,321,661; Nov. 11; v. 268; p. 309.
- Potato-grating machine. K. Lastawskas. No. 1,325,159; Dec. 16; v. 269; p. 471.
- Potato-handling machine. C. Davis. No. 1,301,109; Apr. 22; v. 261; p. 641.
- Potato-hiller. F. L. and H. D. Nau. No. 1,296,840; Mar. 11; v. 260; p. 267.
- Potato-peeler. H. Lee. No. 1,309,951; July 15; v. 264; p. 425.
- Potato-picker. G. W. Wiseman. No. 1,315,693; Sept. 9; v. 266; p. 231.
- Potato picking and sorting machine. H. Rink. No. 1,321,851; Nov. 18; v. 268; p. 396.
- Potato-planter. J. H. Covington. No. 1,326,711; Dec. 30; v. 269; p. 815.
- Potato-planter. J. H. Imus. No. 1,322,574; Nov. 25; v. 268; p. 583.
- Potato-planter. G. J. Smith. No. 1,312,214; Aug. 5; v. 265; p. 68.
- Potato-planters, Potato-picker mechanism for. W. A. Hendrickson. No. 1,314,398; Aug. 26; v. 265; p. 566.
- Potatoes for dehydration, Process of and apparatus for preparing. M. F. Mangelsdorf. No. 1,299,493; Apr. 8; v. 261; p. 228.
- Potatoes, Machine for slicing. J. H. Doak. No. 1,321,015; Nov. 4; v. 268; p. 124.
- Potatoes, &c., Machine for taking up. N. O. Haug. No. 1,309,196; July 8; v. 264; p. 247.
- Potteries, Pull-down for. G. Lowry. No. 1,326,756; Dec. 30; v. 269; p. 823.
- Pottery-manufacture drying-rack. C. L. Sebring. No. 1,294,958; Feb. 18; v. 259; p. 528.
- Pouch. J. Auer. No. 1,296,353; Mar. 4; v. 260; p. 122.
- Pouch or bag attachment. C. A. Fox. No. 1,298,193; Mar. 25; v. 260; p. 614.
- Pouch, Smoker's. F. Goertz. No. 1,317,571; Sept. 30; v. 266; p. 683.
- Pouch, Tobacco. V. Guinzburg. No. 1,310,527; July 22; v. 264; p. 560.
- Poultry-decapitator. F. S. Rece. No. 1,310,294; July 15; v. 264; p. 486.

- Poultry-dip holder. M. N. Krieger. No. 1,323,071; Nov. 25; v. 268; p. 677.
- Poultry-dipping apparatus. A. F. Randolph. No. 1,311,772; July 29; v. 264; p. 824.
- Poultry-disinfector. G. Carlson. No. 1,303,851; May 20; v. 262; p. 322.
- Poultry-feeder. S. O. Rea. No. 1,312,576; Aug. 12; v. 265; p. 167.
- Poultry-feeder. H. D. Stenson. No. 1,316,117; Sept. 16; v. 266; p. 323.
- Poultry-fountain. H. J. Willems. No. 1,314,033; Aug. 26; v. 265; p. 496.
- Poultry-perch. J. E. Evans. No. 1,305,450; June 3; v. 263; p. 42.
- Poultry-releasing device. V. H. Disney. No. 1,317,559; Sept. 30; v. 266; p. 680.
- Poultry-watering device. L. H. Solomon. No. 1,315,047; Sept. 2; v. 266; p. 105.
- Powder and coating same, Smokeless. F. I. du Pont. No. 1,308,343; July 1; v. 264; p. 61.
- Powder, Apparatus intended to project. C. Choffel. No. 1,314,387; Aug. 26; v. 265; p. 564.
- Powder-bag. P. R. Bradley. No. 1,315,081; Sept. 2; v. 266; p. 111.
- Powder-bag clamp. D. S. Hays. No. 1,296,515; Mar. 4; v. 260; p. 156.
- Powder-bags, Filling fuse-containers for. H. D. Bowman. No. 1,298,167; Mar. 25; v. 260; p. 608.
- Powder-box. V. L. Beauchamp. No. 1,303,630; May 13; v. 262; p. 243.
- Powder-box. E. W. Freeman. No. 1,300,155; Apr. 8; v. 261; p. 376.
- Powder-box, Cardboard. W. G. Mennen. No. 1,295,997; Mar. 4; v. 260; p. 40.
- Powder cans and the like, Sifter-top for talcum. E. Hoffman. No. 1,301,847; Apr. 29; v. 261; p. 815.
- Powder-charging device. H. D. Smiley. No. 1,306,316; June 10; v. 263; p. 236.
- Powder, Compressed tungsten. C. A. Pfanstiehl. No. 1,315,859; Sept. 9; v. 266; p. 262.
- Powder-container. O. E. Anderson, Jr. No. 1,294,596; Feb. 18; v. 259; p. 444.
- Powder-container. A. W. De Witt. No. 1,310,609; July 22; v. 264; p. 576.
- Powder-container or the like. P. Gerli and O. A. Ross. No. 1,316,786; Sept. 23; v. 266; p. 498.
- Powder dispenser, Toilet. H. Hartman. No. 1,311,227; July 29; v. 264; p. 722.
- Powder-distributing device. P. R. Wolfe. No. 1,323,346; Dec. 2; v. 269; p. 23.
- Powder, Machine for making bronze. M. J. Fuchs. No. 1,310,526; July 22; v. 264; p. 560.
- Powder, Making explosive black. E. du Pont. No. 1,308,342; July 1; v. 264; p. 61.
- Powder, Making propellant. A. S. Broadbent and R. G. Woodbridge. No. 1,313,459; Aug. 19; v. 265; p. 354.
- Powder, Making propellant. R. G. Woodbridge, Jr. No. 1,312,463; Aug. 5; v. 265; p. 116.
- Powder, Making smokeless. F. I. du Pont. No. 1,308,344; July 1; v. 264; p. 61.
- Powder, Making smokeless. F. I. and E. P. du Pont. No. 1,308,346; July 1; v. 264; p. 62.
- Powder, Means for compressing tungsten. C. A. Pfanstiehl. No. 1,326,614; Dec. 30; v. 269; p. 797.
- Powder-measuring device, Automatic. P. Stephenoff. No. 1,306,447; June 10; v. 263; p. 260.
- Powder package, Toilet. E. J. Alexandre. No. 1,309,713; July 15; v. 264; p. 380.
- Powder, Producing blue. F. F. Farnham. No. 1,299,445; Apr. 18; v. 261; p. 217.
- Powder, Producing propellant. O. J. Teeple, Jr. No. 1,310,848; July 22; v. 264; p. 620.
- Powder-puff. M. Crupain. No. 1,305,070; May 27; v. 262; p. 590.
- Powder-puff. B. H. Karmen. No. 1,299,191; Apr. 1; v. 261; p. 131.
- Powder-puff. L. R. Rose. No. 1,323,912; Dec. 2; v. 269; p. 130.
- Powder, Recovering solvent from smokeless. F. I. du Pont. No. 1,294,066; Feb. 11; v. 259; p. 285.
- Powder-separator. A. H. Roberts. No. 1,310,633; July 22; v. 264; p. 580.
- Powdered material, Apparatus for distributing. C. Schulze. No. 1,295,609; Feb. 25; v. 259; p. 701.
- Powdering device. T. H. Duffy. No. 1,321,295; Nov. 11; v. 268; p. 241.
- Powdering frictionally-ignitable material, Apparatus for. C. L. Pfersch. No. 1,293,188; Feb. 4; v. 259; p. 49.
- Powdering-machine for plates to be etched. W. J. Logan. No. 1,290,603; Jan. 7; v. 258; p. 142.
- Power: See—  
Wave-power. Wind or water power.
- Power at varying speeds, Rotary mechanism for transmission of. W. Hunt. No. 1,298,506; Mar. 25; v. 260; p. 681.
- Power attachment. L. B. Freed. No. 1,311,339; July 29; v. 264; p. 744.
- Power attachment. G. W. Lang. No. 1,314,083; Aug. 26; v. 265; p. 505.
- Power-developing machine. C. Franco. No. 1,304,298; May 20; v. 262; p. 404.
- Power, Distribution of electromotive. G. W. Mascord. No. 1,309,443; July 8; v. 264; p. 293.
- Power-drill. J. M. Roberson. No. 1,315,422; Sept. 9; v. 266; p. 182.
- Power-driven adjusting mechanism. C. M. Manly. No. 1,296,303; Mar. 4; v. 260; p. 111.
- Power-driven mechanism, Control apparatus for. C. M. Manly. No. 1,308,550; July 1; v. 264; p. 99.
- Power-driven socket-wrench. H. Hollingshead. No. 1,298,504; Mar. 25; v. 260; p. 680.
- Power drop-hammer. W. H. Welch. No. 1,304,426; May 20; v. 262; p. 430.
- Power, Employing heat for the production of. S. M. Lillie. (Reissue.) No. 14,726; Sept. 16; v. 266; p. 408.
- Power equipment for alternating-current systems, Emergency. H. M. Jacobs. No. 1,297,857; Mar. 18; v. 260; p. 516.
- Power-factor meter. D. J. Angus. No. 1,318,126; Oct. 7; v. 267; p. 88.
- Power-frame. W. W. Parmenter. (Reissue.) No. 14,609; Mar. 11; v. 260; p. 371.
- Power-gearing. A. F. Hussander. No. 1,315,962; Sept. 16; v. 266; p. 296.
- Power-generating apparatus. G. Code. No. 1,308,732; July 1; v. 264; p. 133.
- Power-generating plant. J. M. Clark. No. 1,315,595; Sept. 9; v. 266; p. 214.
- Power-generating system. F. E. Case. No. 1,313,673; Aug. 19; v. 265; p. 393.
- Power-generator. W. F. Coy. No. 1,311,877; Aug. 5; v. 265; p. 5.
- Power-generator. L. A. Darling. No. 1,311,878; Aug. 5; v. 265; p. 5.
- Power-hacksaw. C. H. Driver and A. H. Goetz. No. 1,296,933; Mar. 11; v. 260; p. 289.
- Power-hammer die, Drawing-in. O. Lindstrom and T. Makela. No. 1,290,258; Jan. 7; v. 258; p. 59.
- Power-jack. W. L. Dayton and J. M. Scott. No. 1,319,212; Oct. 21; v. 267; p. 383.
- Power-jack. E. I. Nottingham. No. 1,322,935; Nov. 25; v. 268; p. 651.
- Power-limiting device. A. D. Arnold. (Reissue.) No. 14,585; Jan. 14; v. 258; p. 424.
- Power mechanism. E. B. Finch. No. 1,315,106; Sept. 2; v. 266; p. 116.
- Power, Motive. J. Geis. No. 1,294,648; Feb. 18; v. 259; p. 457.
- Power-operated switch. N. L. Mortensen and W. F. Lent. No. 1,318,099; Oct. 7; v. 267; p. 83.
- Power pipe-line. G. D. Baldwin. No. 1,300,809; Apr. 15; v. 261; p. 541.
- Power plant. J. Sara. No. 1,315,527; Sept. 9; v. 266; p. 202.
- Power plant, Auxiliary. W. C. Cronkright. No. 1,305,068; May 27; v. 262; p. 589.
- Power plant, Internal-combustion-engine. C. F. Batt. No. 1,309,236; July 8; v. 264; p. 255.
- Power-press. E. W. Zeh. No. 1,324,367; Dec. 9; v. 269; p. 260.
- Power-press brake mechanism. E. W. Zeh. No. 1,324,095; Dec. 9; v. 269; p. 208.
- Power-presses and other purposes, Work-feed mechanism for. A. Peacock and T. H. Hutchinson. No. 1,292,866; Jan. 28; v. 258; p. 759.
- Power-raft and making same. I. A. Bayley. No. 1,292,680; Jan. 28; v. 258; p. 717.
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- Power-reverse gear. J. R. Snyder and H. W. Fleming. No. 1,303,979; May 20; v. 262; p. 346.
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- Power-shafts, Thrust-bearing for. W. McKennitt. No. 1,309,763; July 15; v. 264; p. 390.
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- Power transmission. W. A. Cook. No. 1,316,427; Sept. 16; v. 266; p. 382.
- Power transmission. T. Maurer. No. 1,304,081; May 20; v. 262; p. 364.
- Power transmission. F. J. McKenna. No. 1,291,047; Jan. 14; v. 258; p. 273.
- Power transmission. E. Witt. No. 1,300,910; Apr. 15; v. 261; p. 563.
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- Power-transmission apparatus. C. H. Pooler, Jr. No. 1,323,095; Nov. 25; v. 268; p. 681.
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- Power-transmission belt. S. E. Dowden. No. 1,302,330; Apr. 29; v. 261; p. 907.
- Power-transmission device. J. A. Drake. No. 1,293,732; Feb. 11; v. 259; p. 206.
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- Power-transmitting device. V. A. Fynn. No. 1,321,617; Nov. 11; v. 268; p. 301.
- Power-transmitting device. W. T. McCullough. (Re-issue.) No. 14,698; July 29; v. 264; p. 842.
- Power-transmitting device. J. W. A. McKillican. No. 1,312,999; Aug. 12; v. 265; p. 250.
- Power-transmitting device. P. E. V. Jacobsen. No. 1,307,976; June 24; v. 263; p. 606.
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- Power-transmitting mechanism. H. C. Ford. No. 1,317,916; Oct. 7; v. 267; p. 48.
- Power-transmitting mechanism. C. B. Gray. No. 1,314,867; Sept. 2; v. 266; p. 72.
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- Power-transmitting mechanism. R. W. J. Smith. No. 1,301,982; Apr. 29; v. 261; p. 841.
- Power-transmitting mechanism. R. L. Williamson. No. 1,293,596; Feb. 4; v. 259; p. 144.
- Power-transmitting mechanism, Reversing and phase-changing. L. Jacobsen. No. 1,316,242; Sept. 16; v. 266; p. 347.
- Power units, Automatic engine control for internal-combustion. W. W. Bucher. No. 1,324,793; Dec. 16; v. 269; p. 404.
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- Power, Wind or water. E. Dammann. No. 1,313,621; Aug. 19; v. 265; p. 385.
- Power-wrench. G. D. Alexander. No. 1,322,391; Nov. 18; v. 268; p. 498.
- Power-wrench. W. F. Young. No. 1,326,627; Dec. 30; v. 269; p. 709.
- Precious-metal separator. J. J. Roberson. No. 1,297,911; Mar. 18; v. 260; p. 528.
- Precious metals, Recovery of. R. E. Lyons. No. 1,293,828; Feb. 11; v. 259; p. 230.
- Precious stones, Apparatus for grinding or polishing. H. de Vries and W. A. Donaldson. No. 1,305,038; May 27; v. 262; p. 583.
- Precious stones, Setting for. E. J. and R. C. Schumer and E. H. Wubbolding. No. 1,322,062; Nov. 18; v. 268; p. 435.
- Precipitates, Obtaining fluorid. W. S. Chase. No. 1,314,571; Sept. 2; v. 266; p. 18.
- Precipitating materials from solution, Process and apparatus for. T. B. Crowe. No. 1,321,985; Nov. 18; v. 268; p. 421.
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- Preheating-furnace. H. E. Smythe. No. 1,322,208; Nov. 18; v. 268; p. 462.
- Prepayment device. P. C. Morgenthaler. No. 1,315,786; Sept. 9; v. 266; p. 248.
- Preservatives, Treating. S. H. Reeves. No. 1,302,090; Apr. 29; v. 261; p. 862.
- Preserve-jar. E. L. Ford. No. 1,325,984; Dec. 23; v. 269; p. 841.
- Preserve, &c., jar. E. A. Gillinder. No. 1,296,283; Mar. 4; v. 260; p. 106.
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- Preserving, Means for. C. T. Evans. No. 1,303,549; May 13; v. 262; p. 228.
- Preserving-receptacle. H. Shiga. No. 1,316,746; Sept. 23; v. 266; p. 492.
- Press: See—
- |  |                                     |
|--|-------------------------------------|
| Arbor-press.   | Matrix-drying press.                |
| Arbor draw-press.  | Mold-press.                         |
| Baling-press.  | Multicolor offset-press.            |
| Barrel-press.  | Oil-press.                          |
| Blanking-press.  | Offset perfecting-press.            |
| Block-press.   | Paste-discharging press.            |
| Bosom-press.   | Power-press.                        |
| Box-press.   | Printing-press.                     |
| Brick and stone press.   | Pulp-press.                         |
| Briquetting-press.   | Punch-press.                        |
| Broom-press.   | Punching-press.                     |
| Bundling-press.  | Printing-press.                     |
| Cartridge-press.   | Proof and transfer press.           |
| Combination-press.   | Sheet-printing press.               |
| Compound press.  | Sludge-press.                       |
| Die-press.   | Sound-record hydraulic press.       |
| Drawing-press.   | Sugar-cane, &c., press.             |
| Drill-press.   | Tie-press.                          |
| Filtering-press.   | Tile-press.                         |
| Forging, flanging, and other press.                            | Tire molding and vulcanizing press. |
| Forming-press.   | Tire-retreading press.              |
| Friction-driven press.   | Tobacco-press.                      |
| Fruit-press.   | Tread-forming press.                |
| Garment-press.   | Trousers-press.                     |
| Hat-press.   | Veneer-press.                       |
| Hay-press.   | Vise or press.                      |
| Hydraulic press.   | Vulcanizing-press.                  |
| Letter-sealing press.  |                                     |
| Magazine drill-press.  |                                     |
| Press. F. V. Anderson. No. 1,321,351; Nov. 11; v. 268; p. 251. |                                     |

- Press. G. L. Cavalieri. No. 1,326,478; Dec. 30; v. 269; p. 771.
- Press. M. L. Crawford. No. 1,317,354; Sept. 30; v. 266; p. 641.
- Press. T. D. Dallmeyer and G. G. Brown. No. 1,326,852; Dec. 30; v. 269; p. 842.
- Press. C. H. Fowler. No. 1,307,965; June 24; v. 263; p. 604.
- Press. G. P. Hemstreet. No. 1,319,075; Oct. 21; v. 267.
- Press. R. E. Manley. No. 1,291,582; Jan. 14; v. 258; p. 396.
- Press. E. L. McGary. No. 1,301,954; Apr. 29; v. 261; p. 836.
- Press. S. B. Minnich. No. 1,313,228; Aug. 12; v. 265; p. 294.
- Press. R. Nawrath. No. 1,299,501; Apr. 8; v. 261; p. 229.
- Press. J. E. Singmaster. No. 1,303,826; May 13; v. 262; p. 279.
- Press. A. W. Sizer. No. 1,312,811; Aug. 12; v. 265; p. 213.
- Press. U. A. Webley. No. 1,294,211; Feb. 11; v. 259; p. 320.
- Press. G. E. Whitney. No. 1,302,745; May 6; v. 262; p. 50.
- Press. G. E. Whitney. No. 1,317,115; Sept. 23; v. 266; p. 560.
- Press. G. E. Whitney. No. 1,317,116; Sept. 23; v. 266; p. 560.
- Press. G. E. Whitney. No. 1,317,117; Sept. 23; v. 266; p. 560.
- Press. G. E. Whitney. No. 1,317,118; Sept. 23; v. 266; p. 560.
- Press. G. E. Whitney. No. 1,317,119; Sept. 23; v. 266; p. 561.
- Press. A. P. M. Wilking. No. 1,319,742; Oct. 28; v. 267; p. 506.
- Press. C. V. Wright. No. 1,306,455; June 10; v. 263; p. 262.
- Press. I. Z. Zelma. No. 1,292,217; Jan. 21; v. 258; p. 584.
- Press-buttons, &c., Machine for inserting retaining-springs in cap-like members of. J. L. A. Borel and E. Grange, *see* Borel. No. 1,317,682; Oct. 7; v. 267; p. 4.
- Press-buttons or the like, Machine for manufacturing. J. L. A. Borel and E. Grange, *see* Borel. No. 1,298,165; Mar. 25; v. 260; p. 607.
- Press-drill. F. Sherwin. No. 1,297,601; Mar. 18; v. 260; p. 461.
- Press, Filter-. J. A. Wilson. No. 1,316,404; Sept. 16; v. 266; p. 378.
- Press for production of briquets and other purposes. E. R. Sutcliffe. No. 1,312,367; Aug. 5; v. 265; p. 95.
- Press-frame. L. C. Meyers. No. 1,311,412; July 29; v. 264; p. 757.
- Press-guard. C. A. MacDonald and M. P. Dougherty. No. 1,314,750; Sept. 2; v. 266; p. 52.
- Press-guard. E. W. Zeh. No. 1,305,763; June 3; v. 263; p. 101.
- Press hot plate or platen. L. G. Merritt. No. 1,297,219; Mar. 11; v. 260; p. 351.
- Press mechanism. A. P. Swaidmark. No. 1,303,520; May 13; v. 262; p. 223.
- Press-mold. C. R. Burkhardt. No. 1,291,395; Jan. 14; v. 258; p. 354.
- Presses and like machines, Means for securing columns in hydraulic. T. E. Holmes. No. 1,322,442; Nov. 18; v. 268; p. 507.
- Presses, Braking mechanism for rotary. H. A. W. Wood and C. Nordfors. No. 1,311,031; July 22; v. 264; p. 653.
- Presses, Construction of. J. E. Hagstrom. No. 1,309,682; July 15; v. 264; p. 376.
- Presses, Controlling mechanism for power-. A. Peacock and T. H. Hutchinson. No. 1,322,134; Nov. 18; v. 268; p. 448.
- Presses, Dieing-out attachment for. H. F. Crawford. No. 1,307,041; June 17; v. 263; p. 403.
- Presses, Feed-gage for platen-. T. F. Hancock. No. 1,322,563; Nov. 25; v. 268; p. 582.
- Presses, Feeding device for. G. H. Dufour. No. 1,313,474; Aug. 19; v. 265; p. 356.
- Presses, Finger-guard for cuff-. J. E. Dann. No. 1,321,603; Nov. 11; v. 268; p. 299.
- Presses, Heating or cooling plate for molding-. C. F. Burroughs. No. 1,296,916; Mar. 11; v. 260; p. 285.
- Presses, Kick-off device for garment-. W. E. Andr  e. No. 1,311,546; July 29; v. 264; p. 783.
- Presses, Neckband-expander for shirt-. C. L. Braley. No. 1,311,312; July 29; v. 264; p. 738.
- Presses, Quadruple air-brake for rotary. H. A. W. Wood and J. A. Isbell. No. 1,311,030; July 22; v. 264; p. 653.
- Presses, Safety device for. R. Schwalbach. No. 1,322,356; Nov. 18; v. 268; p. 490.
- Presses, Safety-guard for power-. F. L. Kellenberger. No. 1,309,527; July 8; v. 264; p. 309.
- Presses, Tensioning-roller for web-. H. A. W. Wood. No. 1,319,447; Oct. 21; v. 267; p. 428.
- Presses, Tilting head for molding-. C. Burroughs. No. 1,308,475; July 1; v. 264; p. 85.
- Presses, Web-feeding mechanism for printing-. O. V. Dutro and A. S. Burroughs. No. 1,312,963; Aug. 12; v. 265; p. 242.
- Pressed-steel journal-box. I. A. Randel. No. 1,295,598; Feb. 25; v. 259; p. 699.
- Pressed-steel vehicle-wheel. J. S. Culp. No. 1,320,534; Nov. 4; v. 268; p. 33.
- Pressed-steel wheel. J. Ledwinka. No. 1,299,360; Apr. 1; v. 261; p. 169.
- Presser-iron support. M. Epstein. No. 1,300,939; Apr. 15; v. 261; p. 568.
- Presser-foot. A. F. McCollum. No. 1,325,365; Dec. 16; v. 269; p. 509.
- Presser-foot-opening mechanism. W. Shaw. No. 1,315,243; Sept. 9; v. 266; p. 151.
- Pressing-form. H. A. Davenport. No. 1,310,005; July 15; v. 264; p. 434.
- Presser, Tie-. N. B. Riddle. No. 1,325,308; Dec. 16; v. 269; p. 500.
- Presser-wheel. W. T. Barratt. No. 1,298,436; Mar. 25; v. 260; p. 665.
- Pressing apparatus. H. Rotnagle. No. 1,299,036; Apr. 1; v. 261; p. 97.
- Pressing-iron. H. W. Peth. No. 1,292,510; Jan. 28; v. 258; p. 674.
- Pressing-machine. C. L. Braley. No. 1,311,311; July 29; v. 264; p. 738.
- Pressing-machine. L. Hoffman. (Reissue.) No. 14,590; Feb. 11; v. 259; p. 355.
- Pressing-machine. C. von Philp. No. 1,295,645; Feb. 25; v. 259; p. 709.
- Pressing-machine. W. Wilkie. No. 1,320,813; Nov. 4; v. 268; p. 85.
- Pressing-machine, Automatic. G. Hoff. No. 1,316,793; Sept. 23; v. 266; p. 500.
- Pressing machine, Clothes-. S. J. P. Swallender. No. 1,294,567; Feb. 18; v. 259; p. 438.
- Pressing machine, Garment-. H. E. Chase. No. 1,305,853; May 27; v. 262; p. 549.
- Pressing machine, Seam-. F. M. Furber. No. 1,295,152; Feb. 25; v. 259; p. 595.
- Pressing machine, Shirt-. D. H. Benjamin. No. 1,322,284; Nov. 18; v. 268; p. 477.
- Pressing machine, Sole-. E. E. Foster. No. 1,326,489; Dec. 30; v. 269; p. 773.
- Pressing machine, Sole-. B. F. Mayo. No. 1,322,129; Nov. 18; v. 268; p. 447.
- Pressing-machines, Pad-support for. J. J. Marx. No. 1,312,641; Aug. 12; v. 265; p. 180.
- Pressing member. F. M. Furber. No. 1,300,598; Apr. 15; v. 261; p. 496.
- Pressing-plunger mechanism. W. J. Miller. No. 1,326,365; Dec. 30; v. 269; p. 749.
- Pressure between two bodies, Determining. N. A. Palmgren. No. 1,312,805; Aug. 12; v. 265; p. 211.
- Pressure brake system. M. G. Higgins. No. 1,310,951; July 22; v. 264; p. 638.
- Pressure-chamber for removing divers' diseases. H. Stelzner. No. 1,294,188; Feb. 11; v. 259; p. 314.
- Pressure-compensator, Automatic. H. H. Bohannon and C. Z. Harden. No. 1,323,955; Dec. 2; v. 269; p. 138.
- Pressure-controlled switch. E. E. Taubert. No. 1,304,217; May 20; v. 262; p. 389.
- Pressure-controlling device. J. Buchel. No. 1,305,059; May 27; v. 262; p. 588.
- Pressure-cooker. R. C. Ehlert. No. 1,305,702; June 3; v. 263; p. 89.
- Pressure-cylinders and tanks, Air-tight door for. E. Rinehimer. No. 1,311,009; July 22; v. 264; p. 649.
- Pressure device, Flat-surface-. C. T. Clark. No. 1,312,518; Aug. 12; v. 265; p. 155.
- Pressure-difference-creating device. A. R. Dodge. No. 1,298,471; Mar. 25; v. 260; p. 673.
- Pressure-fluid regulator. J. W. Barton. No. 1,316,134; Sept. 16; v. 266; p. 326.
- Pressure-gage. J. A. Bowden. No. 1,306,245; June 10; v. 263; p. 224.
- Pressure-gage. J. A. Bowden. No. 1,319,138; Oct. 21; v. 267; p. 368.
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- Pressure-gage. J. W. Place. No. 1,315,327; Sept. 9; v. 266; p. 166.
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- Pressure-indicator, Audible. C. V. Butterfield. No. 1,296,160; Mar. 4; v. 260; p. 80.
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- Pressure-regulator. W. F. Gradolph. No. 1,318,863; Oct. 14; v. 267; p. 290.
- Pressure-regulator. T. A. Hammond. No. 1,296,657; Mar. 11; v. 260; p. 224.
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- Pressure-regulator. G. S. Melcher. No. 1,291,063; Jan. 14; v. 258; p. 277.
- Pressure-regulator. J. P. Metzger. No. 1,308,638; July 1; v. 264; p. 115.
- Pressure-regulator. O. H. and A. F. Pieper. No. 1,304,704; May 27; v. 262; p. 521.
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- Pressure-regulator. Automatic. F. A. Litter. No. 1,320,879; Nov. 4; v. 268; p. 98.
- Pressure-regulator, Auxiliary control. M. Dexter. No. 1,301,405; Apr. 22; v. 261; p. 700.
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- Pressure-retaining device. S. G. Down. No. 1,295,012; Feb. 18; v. 259; p. 540.
- Pressures, Method of and apparatus for exhausting to low. O. E. Buckley. No. 1,307,999; June 24; v. 263; p. 611.
- Pressures or currents, Electrical instrument for indicating instantaneous. J. T. Irwin. No. 1,324,054; Dec. 9; v. 269; p. 200.
- Primary battery. O. E. Ruhoff. No. 1,296,700; Mar. 11; v. 260; p. 235.
- Primary battery. C. B. Schoenmehl. No. 1,322,353; Nov. 18; v. 268; p. 490.
- Primary battery. C. B. Schoenmehl and M. L. Martus. No. 1,297,918; Mar. 18; v. 260; p. 529.
- Primary battery. C. B. Schoenmehl and M. L. Martus. No. 1,325,115; Dec. 16; v. 269; p. 463.
- Primary or pilot burner. H. O. Baker. No. 1,324,000; Dec. 2; v. 269; p. 146.
- Prime mover. E. J. Stoddard. No. 1,306,865; June 17; v. 263; p. 370.
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- Priming and testing cup. O. A. Smith. No. 1,304,111; May 20; v. 262; p. 369.
- Priming charge. W. H. Buell. No. 1,308,393; July 1; v. 264; p. 71.
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- Priming-device attachment. L. E. French. No. 1,300,597; Apr. 15; v. 261; p. 496.
- Priming mixture. A. S. Cushman. No. 1,325,928; Dec. 23; v. 269; p. 631.
- Print, Intaglio. H. Lee. No. 1,299,484; Apr. 8; v. 261; p. 226.
- Print-washing machine. Blue. W. M. Dwyer. No. 1,290,134; Jan. 7; v. 258; p. 29.
- Prints, Device for printing blue. C. C. Cooper. No. 1,303,774; May 13; v. 262; p. 270.
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- Prints, Making multicolor. A. H. Smith. No. 1,294,718; Feb. 18; v. 259; p. 472.
- Prints, Making multicolor. A. H. Smith. No. 1,294,719; Feb. 18; v. 259; p. 472.
- Prints, Making multicolor. A. H. Smith. No. 1,294,720; Feb. 18; v. 259; p. 472.
- Printed impression. F. A. Putnam. No. 1,314,211; Aug. 26; v. 265; p. 530.
- Printed matter, Device for removing printers' ink from. T. Jespersen. No. 1,311,564; July 29; v. 264; p. 786.
- Printed matter to edges of books, Device for applying. C. H. Zemke. No. 1,322,667; Nov. 25; v. 268; p. 601.
- Printed sheets from impression-cylinders of printing-machines, Device for taking. C. Winkler. No. 1,291,665; Jan. 14; v. 258; p. 417.
- Printer's blanket. F. E. Ellis. No. 1,296,782; Mar. 11; v. 260; p. 253.
- Printer's blanket, Unitary. F. E. Ellis. No. 1,311,596; July 29; v. 264; p. 792.
- Printer's chase. R. R. Buvinger. No. 1,292,701; Jan. 28; v. 258; p. 722.
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- Printers' galleys, Adjustable guard for. J. E. Latsch and G. N. Markle. No. 1,311,656; July 29; v. 264; p. 803.
- Printer's overlay and underlay board and making same. S. J. Dickhaut. No. 1,324,038; Dec. 9; v. 269; p. 198.
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- Printers'-roller composition, Reclaiming of used. T. H. Grozier. No. 1,321,789; Nov. 11; v. 268; p. 334.
- Printing. H. H. Hancock. No. 1,297,841; Mar. 18; v. 260; p. 512.
- Printing. J. E. Woodbury. No. 1,318,943; Oct. 14; v. 267; p. 306.
- Printing and marking apparatus. J. F. Grever. No. 1,312,321; Aug. 5; v. 265; p. 87.
- Printing and pinning machine, Tag. S. B. Tily and M. O. and J. G. Rehfuess. No. 1,326,806; Dec. 30; v. 269; p. 833.
- Printing apparatus. E. E. Angell. No. 1,307,532; June 24; v. 263; p. 525.
- Printing apparatus. T. S. Fox. No. 1,326,491; Dec. 30; v. 269; p. 773.
- Printing apparatus. F. V. Gardner. No. 1,321,299; Nov. 11; v. 268; p. 241.
- Printing apparatus. C. Owens. No. 1,301,306; Apr. 22; v. 261; p. 681.
- Printing apparatus. D. R. N. Taylor. No. 1,307,325; June 17; v. 263; p. 454.
- Printing apparatus, Consecutive. J. G. Jones. No. 1,326,062; Dec. 23; v. 269; p. 656.
- Printing apparatus with adding mechanism. F. C. Dolcater. No. 1,301,235; Apr. 22; v. 261; p. 667.
- Printing appliance. S. T. Johnson. No. 1,295,325; Feb. 25; v. 259; p. 635.
- Printing attachment for marking-machines, Card-. L. H. Hays and A. R. Curtis. No. 1,295,745; Feb. 25; v. 260; p. 262.
- Printing-border. L. Smith. No. 1,303,733; May 13; v. 262; p. 262.
- Printing, Composition of matter for preventing static electrical effects in. W. Hickingbottom. No. 1,314,191; Aug. 26; v. 265; p. 526.
- Printing device. J. S. Duncan. No. 1,307,119; June 17; v. 263; p. 417.
- Printing device. J. A. Whittington. No. 1,292,190; Jan. 21; v. 258; p. 577.
- Printing device, Web. R. H. Plass. No. 1,301,969; Apr. 29; v. 261; p. 839.
- Printing device, Web. R. H. Plass. No. 1,305,235; May 27; v. 262; p. 621.
- Printing element, Correcting the working thickness of a. H. W. Hecker. No. 1,316,888; Sept. 23; v. 266; p. 516.
- Printing, enlarging, and diminishing apparatus for photographic use, Combined. J. P. Hensen. No. 1,313,815; Aug. 19; v. 265; p. 421.
- Printing-forms, Apparatus for preparing type bars or slugs for use in. D. S. Kennedy. No. 1,300,846; Apr. 15; v. 261; p. 549.
- Printing-forms, Making matrices for casting elements of. A. L. Knight. No. 1,307,675; June 24; v. 263; p. 550.
- Printing-forms, Matrix for casting elements of. A. L. Knight. No. 1,307,676; June 24; v. 263; p. 550.
- Printing-forms, Means for inking. H. de Clercq. No. 1,324,770; Dec. 9; v. 269; p. 337.
- Printing-frame. R. C. Maxwell. No. 1,324,203; Dec. 9; v. 269; p. 229.
- Printing, Insuring accurate registration of the plates for multicolor. H. Dalziel. No. 1,296,929; Mar. 11; v. 260; p. 288.
- Printing letter-press, Production of intaglio plates or cylinders for. J. Simon. No. 1,322,206; Nov. 18; v. 268; p. 462.
- Printing-machine. W. M. Bacon. No. 1,320,358; Oct. 28; v. 267; p. 621.
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- Printing-machine. H. de Clercq. No. 1,324,771; Dec. 9; v. 269; p. 337.
- Printing-machine. J. G. Cushing and F. C. Munro. No. 1,305,778; June 3; v. 263; p. 104.
- Printing-machine. W. E. Elam. No. 1,314,133; Aug. 26; v. 265; p. 515.
- Printing-machine. F. Halenar. No. 1,302,034; Apr. 29; v. 261; p. 851.
- Printing-machine. H. J. Jones. No. 1,319,959; Oct. 28; v. 267; p. 547.
- Printing-machine. H. J. Plant. No. 1,300,007; Apr. 8; v. 261; p. 342.
- Printing-machine. A. H. Ray. No. 1,318,108; Oct. 7; v. 267; p. 85.
- Printing-machine. A. Saborsky. No. 1,294,175; Feb. 11; v. 259; p. 311.
- Printing-machine. C. H. Sampson. No. 1,305,012; May 27; v. 262; p. 578.
- Printing-machine. C. H. Sampson. No. 1,315,642; Sept. 9; v. 266; p. 222.
- Printing-machine. E. E. Strawn. No. 1,325,491; Dec. 16; v. 269; p. 532.
- Printing-machine. F. S. Weise. No. 1,305,849; June 3; v. 262; p. 117.
- Printing machine, Box-. E. C. Northrup. No. 1,317,451; Sept. 30; v. 266; p. 659.

- Printing-machine, Cylinder flat-form. C. Winkler. No. 1,295,661; Feb. 25; v. 259; p. 714.
- Printing-machine, Cylinder flat-form. C. Winkler. No. 1,322,472; Nov. 18; v. 268; p. 513.
- Printing-machine ejector. J. S. Duncan. No. 1,319,856; Oct. 28; v. 267; p. 529.
- Printing-machine having oscillating printing-cylinders. C. Winkler. No. 1,319,198; Oct. 21; v. 267; p. 381.
- Printing-machine inking mechanism. R. Miehle. No. 1,291,068; Jan. 14; v. 258; p. 278.
- Printing machine, Multicolor. R. J. Hauser. No. 1,307,007; June 17; v. 263; p. 396.
- Printing machine, Planographic. E. J. Smith. No. 1,306,726; June 17; v. 263; p. 344.
- Printing-machine slitting attachment. I. F. Niles. No. 1,293,883; Feb. 11; v. 259; p. 242.
- Printing machine, Textile. L. Flick. No. 1,305,890; June 3; v. 263; p. 125.
- Printing machine, Textile. L. Flick. No. 1,305,891; June 3; v. 263; p. 125.
- Printing machine, Ticket. J. W. Hubbard. No. 1,324,673; Dec. 9; v. 269; p. 319.
- Printing machine, Ticket. F. Skerl. No. 1,325,175; Dec. 16; v. 269; p. 474.
- Printing machine, Ticket. F. Skerl. No. 1,307,603; June 24; v. 263; p. 537.
- Printing machine, Web. H. A. W. Wood. No. 1,307,390; June 24; v. 263; p. 499.
- Printing-machines, Attachment to. J. Lewis. No. 1,312,263; Aug. 5; v. 265; p. 76.
- Printing machines, Cloth or paper. W. H. Hope. No. 1,310,653; July 22; v. 264; p. 584.
- Printing-machines, Impression-cylinder for. C. Winkler. No. 1,314,452; Aug. 26; v. 265; p. 577.
- Printing-machines, Inking mechanism for. B. C. White. No. 1,311,198; July 29; v. 264; p. 717.
- Printing-machines, Inking mechanism for high-speed. L. A. Schmidt. No. 1,317,224; Sept. 30; v. 266; p. 616.
- Printing machines, Inking mechanism for plate. O. Roosen. No. 1,308,114; July 1; v. 264; p. 20.
- Printing-machines, Inking mechanism for rotary. L. A. Schmidt. No. 1,322,829; Nov. 25; v. 268; p. 631.
- Printing-machines, Web-feeding mechanism for. I. Tornberg. No. 1,304,630; May 27; v. 262; p. 507.
- Printing-machines, Winding device for wiping webs of embossing. E. M. Lockwood. No. 1,310,195; July 15; v. 264; p. 468.
- Printing mechanism. G. H. Graham. No. 1,308,628; July 1; v. 264; p. 114.
- Printing mechanism. O. Thieme. No. 1,294,196; Feb. 11; v. 259; p. 316.
- Printing mechanism, Cipher. F. J. Tillman. No. 1,301,986; Apr. 29; v. 261; p. 842.
- Printing mechanism for calculating-machines. O. Malcher. No. 1,318,398; Oct. 14; v. 267; p. 202.
- Printing offset mechanism. Total. H. D. Penney. No. 1,317,454; Sept. 30; v. 266; p. 660.
- Printing-plate cylinders, Plate-clamping device for. H. A. W. Wood. No. 1,321,268; Nov. 11; v. 268; p. 235.
- Printing-plate, Cylindrical. E. E. Novotny. No. 1,319,107; Oct. 21; v. 267; p. 362.
- Printing-plate matrix. E. E. Novotny. No. 1,319,106; Oct. 21; v. 267; p. 362.
- Printing-plates and printing-plates curved thereby, Curving. L. W. Claybourn. No. 1,318,967; Oct. 14; v. 267; p. 311.
- Printing-plates, Apparatus for curving. L. W. Claybourn. No. 1,318,968; Oct. 14; v. 267; p. 311.
- Printing-plates, Machine for casting stereotype. P. A. Toomey. No. 1,309,309; July 8; v. 264; p. 268.
- Printing-plates, Machine for making. J. A. H. Hatt. No. 1,302,920; May 6; v. 262; p. 84.
- Printing-plates, Machine for making metallic. C. N. Smith. No. 1,297,266; Mar. 11; v. 260; p. 361.
- Printing-plates, Machine for shaping. C. Winkler. No. 1,320,301; Oct. 28; v. 267; p. 611.
- Printing-plates, Producing. J. A. H. Hatt. No. 1,302,919; May 6; v. 262; p. 84.
- Printing, Preparing rolls for cloth. W. H. Hope. No. 1,310,650; July 22; v. 264; p. 585.
- Printing-press. J. A. Allen. No. 1,305,431; June 3; v. 263; p. 38.
- Printing-press. H. M. Barber. No. 1,312,125; Aug. 5; v. 265; p. 56.
- Printing-press. A. T. H. Brower and S. Moe. No. 1,297,997; Mar. 25; v. 260; p. 571.
- Printing-press. C. W. Dyer. No. 1,290,727; Jan. 7; v. 258; p. 173.
- Printing-press. A. F. Harris. No. 1,307,969; June 24; v. 263; p. 605.
- Printing-press. H. Lang. No. 1,312,487; Aug. 5; v. 265; p. 119.
- Printing-press. W. M. Ludwig. No. 1,301,470; Apr. 22; v. 261; p. 712.
- Printing-press. F. W. McDaniel. No. 1,316,099; Sept. 16; v. 266; p. 321.
- Printing-press. R. Miehle. No. 1,291,069; Jan. 14; v. 258; p. 279.
- Printing-press. R. Miehle. No. 1,295,558; Feb. 25; v. 259; p. 690.
- Printing-press. C. R. Pritchard. No. 1,301,970; Apr. 29; v. 261; p. 839.
- Printing-press. J. D. Reifsnnyder and H. G. Schwerdtle. No. 1,317,391; Sept. 30; v. 266; p. 648.
- Printing-press. W. A. Salter. No. 1,319,906; Oct. 28; v. 267; p. 538.
- Printing-press. R. C. Seymour. No. 1,305,568; June 3; v. 263; p. 64.
- Printing-press. S. Smith. No. 1,314,025; Aug. 26; v. 265; p. 495.
- Printing-press. C. W. Smith. No. 1,326,798; Dec. 30; v. 269; p. 832.
- Printing-press and lithographing-press roller. O. Linder. No. 1,317,713; Oct. 7; v. 267; p. 10.
- Printing-press attachment. W. J. Daningburg. No. 1,321,365; Nov. 11; v. 268; p. 254.
- Printing-press change web-roll mechanism. S. G. Goss. No. 1,301,123; Apr. 22; v. 261; p. 644.
- Printing-press, Combination two-color and perfecter. R. Miehle. No. 1,293,855; Feb. 11; v. 259; p. 236.
- Printing-press distributing-roller. W. M. Shultz. No. 1,294,961; Feb. 18; v. 259; p. 529.
- Printing-press feed-gage. C. L. Stiles. No. 1,321,569; Nov. 11; v. 268; p. 292.
- Printing-press fountain. C. L. Welsh. No. 1,315,174; Sept. 2; v. 266; p. 128.
- Printing-press inking device. H. L. Koehler. No. 1,293,805; Feb. 11; v. 259; p. 224.
- Printing-press inking mechanism. H. F. Bechman. No. 1,301,091; Apr. 22; v. 261; p. 638.
- Printing-press inking mechanism. J. McClure. No. 1,296,098; Mar. 4; v. 260; p. 64.
- Printing-press inking mechanism. R. Miehle. No. 1,295,559; Feb. 25; v. 259; p. 690.
- Printing-press, Intaglio. E. J. Smith. No. 1,314,543; Sept. 2; v. 266; p. 13.
- Printing-press, Intaglio. E. J. Smith. No. 1,319,727; Oct. 28; v. 267; p. 503.
- Printing-press mechanism. G. C. Johnson. No. 1,302,666; May 6; v. 262; p. 35.
- Printing-press, Multiweb. H. Lange. No. 1,305,128; May 27; v. 262; p. 600.
- Printing-press roll-controlling mechanism. S. G. Goss and E. J. Smith. No. 1,301,124; Apr. 22; v. 261; p. 644.
- Printing-press, Rotary. H. M. Barber. No. 1,326,562; Dec. 30; v. 269; p. 787.
- Printing-press, Rotary. P. H. McGiehan. No. 1,315,377; Sept. 9; v. 266; p. 175.
- Printing-press scoring attachment. E. A. Cloonan. No. 1,302,136; Apr. 29; v. 261; p. 870.
- Printing-press sheet-delivery mechanism. H. M. Barber. No. 1,299,656; Apr. 8; v. 261; p. 265.
- Printing-press sheet-gripping mechanism. G. A. Friess. No. 1,293,749; Feb. 11; v. 259; p. 210.
- Printing-press tripping mechanism. R. Miehle. No. 1,293,856; Feb. 11; v. 259; p. 236.
- Printing-press tripping mechanism. R. Miehle. No. 1,300,288; Apr. 15; v. 261; p. 430.
- Printing-press web-renewing device. H. A. W. Wood. No. 1,305,429; June 3; v. 263; p. 38.
- Printing-press web-roll mechanism. S. G. Goss and E. J. Smith. No. 1,301,125; Apr. 22; v. 261; p. 644.
- Printing-presses, Adjustable quadrant for. A. Scapicchio. No. 1,300,028; Apr. 8; v. 261; p. 347.
- Printing-presses, Adjustable spider chase and lock-up for platen. E. Karl. No. 1,318,284; Oct. 7; v. 267; p. 120.
- Printing-presses and other machines, Sheet-delivery mechanism for. R. Miehle. No. 1,291,998; Jan. 21; v. 258; p. 530.
- Printing-presses and other machines, Sheet-delivery mechanism for. R. Miehle. No. 1,291,999; Jan. 21; v. 258; p. 530.
- Printing-presses and other machines, Sheet-delivery mechanism for. R. Miehle. No. 1,292,000; Jan. 21; v. 258; p. 531.
- Printing-presses and other machines, Sheet-delivery mechanism for. R. Miehle. No. 1,292,001; Jan. 21; v. 258; p. 531.
- Printing-presses and other machines, Sheet-delivery mechanism for. R. Miehle. No. 1,292,002; Jan. 21; v. 258; p. 531.
- Printing-presses, Automatic feeding attachment for. L. Adelhofer. No. 1,300,803; Apr. 15; v. 261; p. 540.
- Printing-presses, Bearer for. L. G. Strong. No. 1,326,111; Dec. 23; v. 269; p. 665.
- Printing-presses, Blanket-cylinder for. H. F. Bechman. No. 1,306,095; June 10; v. 263; p. 193.
- Printing-presses, Cleaner for offset-winding drums of. J. M. Trier. No. 1,306,646; June 10; v. 263; p. 297.
- Printing-presses, Cylinder and plate-clamping device for rotary. H. F. Bechman. No. 1,317,647; Sept. 30; v. 266; p. 698.
- Printing-presses, Cylinder-tripping device for. F. S. English. No. 1,324,957; Dec. 16; v. 269; p. 434.
- Printing-presses, Delivery for. C. G. Pritchard. No. 1,309,544; July 8; v. 264; p. 312.
- Printing-presses, Delivery mechanism for. H. M. Barber. No. 1,306,682; June 17; v. 263; p. 337.
- Printing-presses, Feed-gage for use on. E. L. McGill. No. 1,324,684; Dec. 9; v. 269; p. 321.
- Printing-presses, Folding mechanism for. H. Lange. No. 1,305,129; May 27; v. 262; p. 600.



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- Printing presses, Fudge or late-news device for newspaper- G. W. Mascord. No. 1,301,072; Apr. 15; v. 261; p. 599.
- Printing-presses, Gripper for. F. Casper. No. 1,326,390; Dec. 30; v. 269; p. 754.
- Printing-presses, Gripper for. J. B. Wills. No. 1,324,946; Dec. 16; v. 269; p. 431.
- Printing-presses, Inking device for flat-bed. F. S. English. No. 1,301,923; Apr. 29; v. 261; p. 830.
- Printing-presses, Inking mechanism for. C. W. Smith. No. 1,326,537; Dec. 30; v. 269; p. 783.
- Printing-presses, Inking-rollers for. J. H. Schussler. No. 1,310,932; July 22; v. 264; p. 635.
- Printing-presses, Plate-clamp for. J. R. Blaine. No. 1,304,732; May 27; v. 262; p. 526.
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- Printing-presses, Sheet-feeding mechanism for. E. R. Linebaugh. No. 1,319,716; Oct. 28; v. 267; p. 501.
- Printing-presses, Sheet-retaining attachment for. E. A. Cloonan. No. 1,302,310; Apr. 29; v. 261; p. 903.
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- Printing-presses, Trip-control mechanism for. R. Miehele. No. 1,302,693; May 6; v. 262; p. 40.
- Printing-presses, Tripping mechanism for. R. Miehele. No. 1,315,382; Sept. 9; v. 266; p. 176.
- Printing-presses, Tripping mechanism for rotary. R. Miehele. No. 1,300,289; Apr. 15; v. 261; p. 431.
- Printing-rolls. J. Gilloon. No. 1,318,862; Oct. 14; v. 267; p. 290.
- Printing-stamp, Hand. F. B. Dahl. No. 1,319,568; Oct. 21; v. 267; p. 451.
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- Printing upon irregular surfaces. J. F. Brewer. No. 1,326,843; Dec. 30; v. 269; p. 840.
- Printing, waxing, cutting, and like machines, Flier attachment for. A. E. Shirlow. No. 1,309,701; July 15; v. 264; p. 378.
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- Profiling-machine, Automatic. E. J. Luster. No. 1,306,266; June 10; v. 263; p. 228.
- Program device. J. I. Liner. No. 1,321,112; Nov. 11; v. 268; p. 205.
- Program device. A. L. Sohm. No. 1,317,109; Sept. 23; v. 266; p. 559.
- Projectile. J. Borel. No. 1,313,875; Aug. 26; v. 265; p. 465.
- Projectile. J. B. Close. No. 1,301,907; Apr. 29; v. 261; p. 827.
- Projectile. T. A. Edison. No. 1,297,294; Mar. 11; v. 260; p. 868.
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- Projectile. T. A. Edison. No. 1,300,709; Apr. 15; v. 261; p. 519.
- Projectile. E. W. Enequist. No. 1,316,148; Sept. 16; v. 266; p. 330.
- Projectile. F. J. François. No. 1,303,877; May 20; v. 262; p. 327.
- Projectile. M. W. Gilmartin. No. 1,315,113; Sept. 2; v. 266; p. 117.
- Projectile. R. S. Harvey. No. 1,312,114; Aug. 5; v. 265; p. 49.
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- Projectile. A. Hubbard. No. 1,302,167; Apr. 29; v. 261; p. 876.
- Projectile. C. Janes. No. 1,305,216; May 27; v. 262; p. 617.
- Projectile. A. Johnson. No. 1,311,521; July 29; v. 264; p. 778.
- Projectile. J. S. Laurie. No. 1,297,873; Mar. 18; v. 260; p. 519.
- Projectile. W. H. Livens. No. 1,303,265; June 10; v. 263; p. 227.
- Projectile. H. P. Loudon, Sr. No. 1,295,047; Feb. 18; v. 259; p. 548.
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- Projectile. J. I. Misener. No. 1,321,068; Nov. 4; v. 268; p. 134.
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- Projectile. T. Nomoto. No. 1,303,713; May 13; v. 262; p. 258.
- Projectile. H. T. Nowell. No. 1,296,810; Mar. 4; v. 260; p. 112.
- Projectile. E. S. Phelps. No. 1,321,667; Nov. 11; v. 268; p. 311.
- Projectile. D. A. Plstorio. No. 1,291,117; Jan. 14; v. 258; p. 289.
- Projectile. C. M. Richardson. No. 1,292,374; Jan. 21; v. 258; p. 621.
- Projectile. J. M. Rogers. No. 1,307,419; June 24; v. 263; p. 504.
- Projectile. K. A. Schultz. No. 1,302,720; May 6; v. 262; p. 45.
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- Projectile. J. B. Semple. No. 1,325,758; Dec. 23; v. 269; p. 599.
- Projectile. H. W. Shonnard. No. 1,292,108; Jan. 21; v. 258; p. 558.
- Projectile. F. W. S. Stokes. No. 1,313,926; Aug. 26; v. 265; p. 475.
- Projectile. H. B. Strang. No. 1,312,762; Aug. 12; v. 265; p. 203.
- Projectile. H. B. Strang. No. 1,312,763; Aug. 12; v. 265; p. 203.
- Projectile. O. I. Straub. No. 1,312,765; Aug. 12; v. 265; p. 204.
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- Projectile. J. A. Walsh. No. 1,302,996; May 6; v. 262; p. 99.
- Projectile. W. A. Wilkins. No. 1,307,607; June 24; v. 263; p. 538.
- Projectile, Aerial. T. J. and O. Bury. No. 1,294,392; Feb. 18; v. 259; p. 396.
- Projectile, Aerial. P. H. Kane. No. 1,298,222; Mar. 25; v. 260; p. 620.
- Projectile and cap therefor, Capped armor-piercing. R. A. Hadfield and A. G. M. Jack. No. 1,310,076; July 15; v. 264; p. 447.
- Projectile and means for directing same. I. L. Reeves. No. 1,295,794; Feb. 25; v. 295; p. 744.
- Projectile, Anti-aircraft. O. I. Straub. No. 1,312,764; Aug. 12; v. 265; p. 203.
- Projectile, Armor-piercing. T. A. Bowers. No. 1,294,329; Feb. 11; v. 259; p. 347.
- Projectile, Armor-piercing. W. Dalton. No. 1,301,822; Apr. 29; v. 261; p. 811.
- Projectile, Armor-piercing. A. G. McKenna and W. Dalton. No. 1,301,859; Apr. 29; v. 261; p. 818.
- Projectile, Armor-piercing. A. G. McKenna and W. Dalton. No. 1,301,860; Apr. 29; v. 261; p. 818.
- Projectile-detonator. C. P. Watson. No. 1,316,607; Sept. 23; v. 266; p. 465.
- Projectile device. M. Aleksandrowicz. No. 1,298,851; Apr. 1; v. 261; p. 51.
- Projectile during flight, Means for guiding a. J. B. and T. E. Murray, Jr. No. 1,293,869; Feb. 11; v. 259; p. 239.
- Projectile, Expansible. J. Frick. No. 1,318,858; Oct. 14; v. 267; p. 289.
- Projectile, Explosive. L. S. Clarke. No. 1,320,447; Nov. 4; v. 268; p. 17.
- Projectile, Explosive. F. J. Rohling. No. 1,320,495; Nov. 4; v. 268; p. 26.
- Projectile for use against submarines and submerged mines. A. J. Stone. No. 1,303,738; May 13; v. 262; p. 263.
- Projectile-fuse. J. H. Mansell. No. 1,298,076; Mar. 25; v. 260; p. 588.
- Projectile-fuse. F. W. S. Stokes. No. 1,298,418; Mar. 25; v. 260; p. 661.
- Projectile fuse mechanism. E. Gathmann. No. 1,292,395; Jan. 21; v. 258; p. 626.
- Projectile, Grenade. E. Gathmann. No. 1,301,929; Apr. 29; v. 261; p. 831.
- Projectile, Hollow. T. E. Jr., and J. B. Murray. No. 1,303,576; May 13; v. 262; p. 233.
- Projectile, Illuminating. A. G. Bergman. No. 1,305,186; May 27; v. 262; p. 612.
- Projectile, Illuminating. A. G. Bergman. No. 1,305,188; May 27; v. 262; p. 612.
- Projectile, Incendiary. J. F. Buckingham. No. 1,301,380; Apr. 22; v. 261; p. 696.
- Projectile, Incendiary. J. F. Buckingham. No. 1,301,381; Apr. 22; v. 261; p. 692.
- Projectile, Incendiary. J. F. Buckingham. No. 1,301,382; Apr. 22; v. 261; p. 697.
- Projectile, Incendiary. C. T. J. Vautin. No. 1,316,005; Sept. 16; v. 266; p. 304.
- Projectile, Line-carrying. O. Newlander. No. 1,322,601; Nov. 25; v. 268; p. 589.
- Projectile, Marine. H. G. Berentsen. No. 1,294,604; Feb. 18; v. 259; p. 446.

- Projectile, Marine. H. G. Berentsen. No. 1,294,605; Feb. 18; v. 259; p. 446.
- Projectile, Munition-. C. A. Bush. No. 1,310,790; July 22; v. 264; p. 610.
- Projectile, Ordnance-. E. W. Newell. No. 1,309,772; July 15; v. 264; p. 392.
- Projectile, shell, and the like. S. F. M. Passet. No. 1,310,132; July 15; v. 264; p. 457.
- Projectile shell, Explosive-. J. B. and T. E. Murray, Jr. No. 1,294,143; Feb. 11; v. 259; p. 304.
- Projectile-shells, Truing elongated. T. E. Jr., and J. B. Murray. No. 1,303,577; May 13; v. 262; p. 233.
- Projectile, Stabilized. J. H. Hayden. No. 1,316,033; Sept. 16; v. 266; p. 308.
- Projectile, Stabilized. J. H. Hayden. No. 1,316,363; Sept. 16; v. 266; p. 370.
- Projectile-tracer. R. L. Lowman. No. 1,310,708; July 22; v. 264; p. 593.
- Projectile, Tubular. T. A. Bowers. No. 1,292,388; Jan. 21; v. 258; p. 624.
- Projectile-turner. F. B. Cockburn and J. C. Carlton. No. 1,313,166; Aug. 12; v. 265; p. 282.
- Projectile, Winged. W. Losin. No. 1,294,924; Feb. 18; v. 259; p. 521.
- Projectiles and apparatus therefor, Tempering of. R. A. Hadfield, A. G. M. Jack, I. B. Milne, and W. E. Parker. No. 1,310,074; July 15; v. 264; p. 446.
- Projectiles and the like, Die for forging. J. Dickinson. No. 1,309,247; July 8; v. 264; p. 257.
- Projectiles, Apparatus for the manufacture of. H. W. Shonnard. No. 1,292,107; Jan. 21; v. 258; p. 558.
- Projectiles by centrifugal action, Device for throwing successively series of. A. Frisch. No. 1,293,075; Feb. 4; v. 259; p. 24.
- Projectiles, Cap for armor-piercing. R. A. Hadfield and A. G. M. Jack. No. 1,310,073; July 15; v. 264; p. 446.
- Projectiles, Detonator for ordnance-. C. P. Watson. No. 1,311,104; July 22; v. 264; p. 667.
- Projectiles, Driving-band of. T. K. North. No. 1,299,013; Apr. 1; v. 261; p. 91.
- Projectiles, Manufacture of armor-piercing. R. A. Hadfield, A. G. M. Jack, and I. B. Milne. No. 1,310,075; July 15; v. 264; p. 447.
- Projectiles, Manufacturing highly-compressed. H. W. Shonnard. No. 1,292,106; Jan. 21; v. 258; p. 558.
- Projectiles, Mechanism for releasing detonator-strikers in. P. E. Cheesman. No. 1,294,047; Feb. 11; v. 259; p. 281.
- Projectiles, Mortar for throwing. C. Wale. No. 1,322,980; Nov. 25; v. 268; p. 660.
- Projectiles, Percussion-fuse for explosive. A. H. Midgley. No. 1,318,098; Oct. 7; v. 267; p. 83.
- Projectiles, Toughening. R. A. Hadfield. No. 1,325,987; Dec. 23; v. 269; p. 642.
- Projecting apparatus, Stand for. N. Power. No. 1,323,377; Dec. 2; v. 269; p. 29.
- Projecting device. G. Hazarvartian. No. 1,311,694; July 29; v. 264; p. 810.
- Projecting-machine. O. C. Bernard. No. 1,318,255; Oct. 7; v. 267; p. 114.
- Projecting-machine. M. Segel. No. 1,318,016; Oct. 7; v. 267; p. 68.
- Projecting-machine, Portable. A. D. Philpot. No. 1,310,211; July 15; v. 264; p. 471.
- Projecting-screen. W. K. Hill. No. 1,293,433; Feb. 4; v. 259; p. 107.
- Projector. H. A. Douglas. No. 1,291,444; Jan. 14; v. 258; p. 365.
- Projector. F. H. Doyle and J. Wallace. No. 1,291,793; Jan. 21; v. 258; p. 478.
- Projector. E. L. Gilmore. No. 1,303,193; May 6; v. 262; p. 136.
- Projector. F. W. Minor. No. 1,292,005; Jan. 21; v. 258; p. 532.
- Promoting combustion. E. C. Lillie. No. 1,312,916; Aug. 12; v. 265; p. 233.
- Prompter, Speaker's. C. A. Conlin. No. 1,319,139; Oct. 21; v. 267; p. 368.
- Prong-fastener for gown decorations. H. E. Mertz. No. 1,294,931; Feb. 18; v. 259; p. 522.
- Proof and transfer press. L. Smith. No. 1,312,366; Aug. 5; v. 265; p. 95.
- Proofing apparatus. F. and P. B. Streich. No. 1,322,839; Nov. 25; v. 268; p. 633.
- Proofing material. F. P. Wood. No. 1,310,818; July 22; v. 264; p. 615.
- Propagation pot or can. N. Dunn. No. 1,297,810; Mar. 18; v. 260; p. 506.
- Propeller. W. H. Armstrong. No. 1,307,106; June 17; v. 263; p. 414.
- Propeller. W. E. S. Coyne. No. 1,294,624; Feb. 18; v. 259; p. 451.
- Propeller. S. M. Kekuewa. No. 1,290,573; Jan. 7; v. 258; p. 135.
- Propeller. J. Kopesay. No. 1,300,738; Apr. 15; v. 261; p. 525.
- Propeller. J. M. Maher. No. 1,318,571; Oct. 14; v. 267; p. 235.
- Propeller. P. C. Munro. No. 1,326,770; Dec. 30; v. 269; p. 826.
- Propeller. L. G. Nilson. No. 1,308,527; July 1; v. 264; p. 94.
- Propeller. I. L. Roberts. No. 1,323,102; Nov. 25; v. 268; p. 683.
- Propeller. A. Rupp. No. 1,318,805; Oct. 14; v. 267; p. 279.
- Propeller. J. C. Ryan. No. 1,307,834; June 24; v. 263; p. 580.
- Propeller. A. S. Warren. No. 1,296,242; Mar. 4; v. 260; p. 97.
- Propeller. P. M. Weddell. No. 1,326,701; Dec. 30; v. 269; p. 813.
- Propeller. S. S. Whipps. No. 1,319,634; Oct. 21; v. 267; p. 463.
- Propeller, Adjustable. S. Hart and R. I. Eustis. No. 1,301,052; Apr. 15; v. 261; p. 594.
- Propeller, Air-. E. D. Fieux and H. S. Wheller. No. 1,304,671; May 27; v. 262; p. 515.
- Propeller and current-motor. J. G. Gracey. No. 1,296,792; Mar. 11; v. 260; p. 255.
- Propeller and making same. S. Heath. No. 1,325,672; Dec. 23; v. 269; p. 584.
- Propeller control. J. A. Horne. No. 1,293,097; Feb. 4; v. 259; p. 29.
- Propeller driving mechanism. H. R. Ricardo. No. 1,298,401; Mar. 25; v. 260; p. 657.
- Propeller-forming machine. S. Heath. No. 1,325,671; Dec. 23; v. 269; p. 584.
- Propeller, Marine. W. B. Christopher. No. 1,293,035; Feb. 4; v. 259; p. 15.
- Propeller, Screw-. W. Routledge. No. 1,304,102; May 20; v. 262; p. 367.
- Propeller, Shaftless. I. Helguera. No. 1,326,730; Dec. 30; v. 269; p. 818.
- Propeller-shafts, Reversing-gear for. J. F. J. Clementson. No. 1,320,316; Oct. 28; v. 267; p. 613.
- Propeller, Ship-. W. C. Gregg. No. 1,306,892; June 17; v. 263; p. 375.
- Propeller, Variable-pitch. O. F. Persson. No. 1,316,862; Sept. 23; v. 266; p. 512.
- Propeller-wheel. J. Ingalls. No. 1,313,598; Aug. 19; v. 265; p. 380.
- Propellers upon ships, Mounting. G. Catanzano. No. 1,317,861; Oct. 7; v. 267; p. 38.
- Propelling means. W. C. Parrish. No. 1,311,415; July 29; v. 264; p. 758.
- Propelling mechanism. P. G. Brunzel. No. 1,312,679; Aug. 12; v. 265; p. 187.
- Propelling mechanism. A. S. Towers. No. 1,319,540; Oct. 21; v. 267; p. 445.
- Propylene dichlorid, Making. G. O. Curme, Jr. No. 1,315,547; Sept. 9; v. 266; p. 206.
- Protecting and fireproofing materials. A. Arent and R. A. Kuever. No. 1,318,524; Oct. 14; v. 267; p. 226.
- Protecting fabric. J. Friedman. No. 1,309,620; July 15; v. 264; p. 363.
- Protective device. D. Basch. No. 1,315,809; Sept. 9; v. 266; p. 252.
- Protective device. E. E. F. Creighton. No. 1,300,127; Apr. 8; v. 261; p. 369.
- Protective device. E. M. Hewlett. No. 1,291,512; Jan. 14; v. 258; p. 380.
- Protective device. D. T. May. No. 1,319,719; Oct. 28; v. 267; p. 502.
- Protective device. D. T. May. No. 1,319,720; Oct. 28; v. 267; p. 502.
- Protector. W. L. Cook. No. 1,304,024; May 20; v. 262; p. 354.
- Protector. J. F. Ebert. No. 1,295,714; Feb. 25; v. 259; p. 726.
- Protector, Adjustable tab-. F. P. Bushnell. No. 1,317,265; Sept. 30; v. 266; p. 624.
- Protector, Eaves-trough. H. I. Ward. No. 1,308,311; July 1; v. 264; p. 56.
- Protector for mechanism. O. I. Judelson. No. 1,301,947; Apr. 29; v. 261; p. 835.
- Protector, Inner-tube. P. K. Tucker. No. 1,294,201; Feb. 11; v. 259; p. 317.
- Proteid substances, Manufacturing vegetable. S. Satow. No. 1,321,479; Nov. 11; v. 268; p. 276.
- Proteid substances, Manufacturing vegetable. S. Satow. No. 1,321,480; Nov. 11; v. 268; p. 276.
- Proteins, Product derived from vegetable. Z. Ostenberg. No. 1,316,854; Sept. 23; v. 266; p. 511.
- Protractor. R. D. Maddox. No. 1,292,957; Jan. 28; v. 258; p. 781.
- Protractor. C. Schreiber. No. 1,318,607; Oct. 14; v. 267; p. 242.
- Protractor, Aerial-navigation. R. H. Sayre. No. 1,296,704; Mar. 11; v. 260; p. 236.
- Protractor and gage. E. T. Ayers. No. 1,319,942; Oct. 28; v. 267; p. 544.
- Protractor and lettering instrument, Combined. W. Balzhiser. No. 1,298,640; Apr. 1; v. 261; p. 4.
- Pruning-shears. E. McKenney. (Reissue.) No. 14,614; Mar. 18; v. 260; p. 545.
- Prying device. V. W. Moore. No. 1,310,538; July 22; v. 264; p. 562.
- Puff-iron, Electrically-heated. D. Bertuleit. No. 1,304,146; May 20; v. 262; p. 375.
- Puff, Vanity-. B. H. Krueger. No. 1,326,745; Dec. 30; v. 269; p. 821.
- Pull-over, Duplex catenary. G. H. Rolus. No. 1,292,238; Jan. 21; v. 258; p. 590.



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- Pull-socket. M. J. Gretschn. No. 1,294,794; Feb. 18; v. 259; p. 491.
- Pull-socket. H. J. Morey and D. N. Thompson. No. 1,319,963; Oct. 28; v. 267; p. 548.
- Puller. *See*—
- |                    |                        |
|--------------------|------------------------|
| Automobile-puller. | Pinion-puller.         |
| Band-puller.       | Pipe-puller.           |
| Beet-puller.       | Post-puller.           |
| Bolt-puller.       | Sickle-puller.         |
| Brush-puller.      | Sock-puller.           |
| Bush-puller.       | Spike-puller.          |
| Bushing-puller.    | Spike and nail puller. |
| Cap-puller.        | Stalk-puller.          |
| Core-bar puller.   | Steel puller.          |
| Cotter-pin puller. | Stump-puller.          |
| Drift-bolt puller. | Tack-puller.           |
| Drill-puller.      | Weed-puller.           |
| Hay-puller.        | Wheel-puller.          |
| Nail-puller.       |                        |
- Puller, Bolt or spike. H. F. Claypool. No. 1,302,134; Apr. 29; v. 261; p. 870.
- Pulley. D. H. Benjamin. No. 1,321,184; Nov. 11; v. 268; p. 219.
- Pulley. H. Dennis. No. 1,305,526; June 3; v. 263; p. 56.
- Pulley. C. C. Hayden. No. 1,314,190; Aug. 26; v. 265; p. 526.
- Pulley. M. A. Kendall. No. 1,292,799; Jan. 28; v. 258; p. 744.
- Pulley. P. O. Tveden. No. 1,309,921; July 15; v. 264; p. 419.
- Pulley. K. G. Wolff and H. Graf. No. 1,324,948; Dec. 16; v. 269; p. 432.
- Pulley. L. A. Young and W. Miller. No. 1,309,675; July 15; v. 264; p. 374.
- Pulley and belting. D. R. Bryan. No. 1,290,894; Jan. 14; v. 258; p. 237.
- Pulley and manufacture thereof. Metal. R. H. Bowen. No. 1,308,035; July 1; v. 264; p. 5.
- Pulley belt-guard. W. L. Bliss. No. 1,296,259; Mar. 4; v. 260; p. 101.
- Pulley. Clutch. J. W. Jackson. No. 1,302,926; May 6; v. 262; p. 85.
- Pulley. Combination differential direct-power drive and friction-clutch. N. H. Norris. No. 1,305,616; June 3; v. 263; p. 75.
- Pulley. Covered. H. F. Gerhard. No. 1,309,284; July 8; v. 264; p. 264.
- Pulley. Demountable. E. Roberts. No. 1,322,055; Nov. 18; v. 268; p. 434.
- Pulley. Expandable. E. R. Boling. No. 1,299,669; Apr. 8; v. 261; p. 268.
- Pulley. Fan-drive. R. H. Poteet. No. 1,320,089; Oct. 28; v. 267; p. 572.
- Pulley-line take-up. G. E. Edwards. No. 1,293,384; Feb. 4; v. 259; p. 95.
- Pulley. Loose. C. H. Rhodes. No. 1,322,617; Nov. 25; v. 268; p. 592.
- Pulley-mounting. H. G. Beede. No. 1,306,517; June 10; v. 263; p. 273.
- Pulley. Reversible clutch. A. Clifford. No. 1,292,260; Jan. 21; v. 258; p. 594.
- Pulley. Self-oiling. H. L. McCullough. No. 1,309,739; July 15; v. 264; p. 385.
- Pulley structure. Idler. J. A. Gerwen. No. 1,300,833; Apr. 15; v. 261; p. 546.
- Pulley-supporting brace. P. A. Fuchs. No. 1,301,830; Apr. 29; v. 261; p. 812.
- Pulley. Troughing belt. R. W. Dull. No. 1,295,138; Feb. 25; v. 259; p. 593.
- Pulley. Variable-speed. W. B. Dunbar. No. 1,314,580; Sept. 2; v. 266; p. 20.
- Pulleys for spinning and twisting machines. Mount for tension. C. W. Boardman. No. 1,298,163; Mar. 25; v. 260; p. 607.
- Pulleys, &c., to shafts. Means for locking. G. W. Dover. No. 1,323,172; Nov. 25; v. 268; p. 696.
- Pulling device. D. H. Golding. No. 1,300,953; Apr. 15; v. 261; p. 571.
- Pulling device. G. W. Kaiser. No. 1,323,395; Dec. 2; v. 269; p. 32.
- Pulling-machine. C. S. Wright. No. 1,324,221; Dec. 9; v. 269; p. 232.
- Pulling-over and like machine. W. P. Mills and C. M. Bagshaw. No. 1,293,162; Feb. 4; v. 259; p. 43.
- Pulling-over machine. O. Ashton. No. 1,319,261; Oct. 21; v. 267; p. 392.
- Pulling-over machine. W. Proulx. No. 1,309,812; July 15; v. 264; p. 399.
- Pulp and paper from garbage. Manufacture of. J. F. and H. E. J. Puttaert. No. 1,294,163; Feb. 11; v. 259; p. 308.
- Pulp. Apparatus for making articles from. W. H. and J. J. Drake. No. 1,326,582; Dec. 30; v. 269; p. 791.
- Pulp articles of various forms. Machine for producing either solid or hollow fibrous. A. J. Hodge and H. B. Ruggles. No. 1,300,966; Apr. 15; v. 261; p. 574.
- Pulp-classifier. R. D. Jackson. No. 1,316,038; Sept. 16; v. 266; p. 309.
- Pulp digester liquor. Recovering valuable constituents from wood. H. K. Moore. No. 1,324,920; Dec. 16; v. 269; p. 427.
- Pulp fibers, &c., from liquids containing them. Apparatus for recovering. F. Groch. No. 1,312,976; Aug. 12; v. 265; p. 245.
- Pulp. Machine for molding articles from. F. W. Waterman. No. 1,300,677; Apr. 15; v. 261; p. 512.
- Pulp plants. Sand and splint catcher for wood. T. Quiller. No. 1,306,436; June 10; v. 263; p. 259.
- Pulp-press. A. Wertenbruch. No. 1,299,524; Apr. 8; v. 261; p. 235.
- Pulp-molding machine. L. McFarlane. No. 1,303,932; May 20; v. 262; p. 337.
- Pulp. Recovery process in the manufacture of sulfate. E. Olsson. No. 1,322,043; Nov. 18; v. 268; p. 432.
- Pulp-screening. A. J. Haug. No. 1,319,705; Oct. 28; v. 267; p. 499.
- Pulverized fuel. Method and apparatus for feeding. C. H. Baldwin. No. 1,320,963; Nov. 4; v. 268; p. 114.
- Pulverizer. J. N. Carter. No. 1,301,384; Apr. 22; v. 261; p. 697.
- Pulverizer. C. S. Lincoln. No. 1,309,805; July 15; v. 264; p. 397.
- Pulverizer. D. McKelvey. No. 1,325,676; Dec. 23; v. 269; p. 585.
- Pulverizer. E. Smith. No. 1,323,417; Dec. 2; v. 269; p. 37.
- Pulverizer. H. J. Shelton. No. 1,302,232; Apr. 29; v. 261; p. 888.
- Pulverizer. H. J. Shelton. No. 1,311,535; July 29; v. 264; p. 781.
- Pulverizer. H. A. Thuneman. No. 1,319,735; Oct. 28; v. 267; p. 505.
- Pulverizer and roller. W. Fetzner. No. 1,302,146; Apr. 29; v. 261; p. 872.
- Pulverizer. Centrifugal attritional. J. H. and J. Macortney. (Reissue.) No. 14,764; Dec. 2; v. 269; p. 150.
- Pulverizer. Clinker and clinker. J. E. Osmer. No. 1,319,611; Oct. 21; v. 267; p. 459.
- Pulverizer retaining-ring. H. J. Shelton. No. 1,322,833; Nov. 25; v. 268; p. 631.
- Pulverizer. Soil. D. Iodice. No. 1,305,215; May 27; v. 262; p. 617.
- Pulverizer. Soil-surface. S. H. Garst. No. 1,304,871; May 27; v. 262; p. 552.
- Pulverizing and separating machine. W. H. Berry. No. 1,292,686; Jan. 28; v. 258; p. 718.
- Pulverizing and separating mill. Self-contained. J. M. Schütz. No. 1,305,413; June 3; v. 263; p. 34.
- Pulverizing frangible substances. Method of and apparatus for. G. A. Overstrom. No. 1,300,192; Apr. 8; v. 261; p. 384.
- Pulverizing-mill roller and supporting structure for same. R. A. Lachmann. No. 1,321,379; Nov. 11; v. 268; p. 257.
- Pump. L. E. Baker. No. 1,324,294; Dec. 9; v. 269; p. 246.
- Pump. A. A. Barton. No. 1,318,130; Oct. 7; v. 267; p. 89.
- Pump. J. B. Belk. No. 1,318,718; Oct. 14; v. 267; p. 263.
- Pump. D. Berthelot. No. 1,311,035; July 22; v. 264; p. 654.
- Pump. F. I. Cannon. No. 1,316,558; Sept. 23; v. 266; p. 456.
- Pump. A. Card. No. 1,326,024; Dec. 23; v. 269; p. 649.
- Pump. R. E. Carmichael. No. 1,325,077; Dec. 16; v. 269; p. 456.
- Pump. M. T. Chapman. No. 1,297,441; Mar. 18; v. 260; p. 427.
- Pump. F. H. Crago. No. 1,317,353; Sept. 30; v. 266; p. 641.
- Pump. F. H. Crago. No. 1,322,764; Nov. 25; v. 268; p. 619.
- Pump. G. E. Denman. No. 1,322,483; Nov. 18; v. 268; p. 515.
- Pump. G. Ellingson. No. 1,325,398; Dec. 16; v. 269; p. 516.
- Pump. F. J. Evans. No. 1,322,552; Nov. 25; v. 268; p. 580.
- Pump. F. A. Fay. No. 1,299,157; Apr. 1; v. 261; p. 123.
- Pump. G. L. Fish. No. 1,322,236; Nov. 18; v. 268; p. 468.
- Pump. S. H. Graf. No. 1,317,440; Sept. 30; v. 266; p. 657.
- Pump. G. E. Haszinger. No. 1,321,630; Nov. 11; v. 268; p. 304.
- Pump. G. C. Hicks, Jr. No. 1,303,795; May 13; v. 262; p. 274.
- Pump. W. S. Holdaway. No. 1,317,370; Sept. 30; v. 266; p. 644.
- Pump. G. A. Humason. No. 1,325,565; Dec. 23; v. 269; p. 564.
- Pump. G. A. Humason. No. 1,326,508; Dec. 30; v. 269; p. 777.
- Pump. H. A. Humphrey and W. J. Rusdell. No. 1,311,166; July 29; v. 264; p. 712.
- Pump. J. H. Jann. No. 1,302,665; May 6; v. 262; p. 35.
- Pump. J. M. Kelley. No. 1,309,987; July 15; v. 264; p. 431.
- Pump. C. B. King. No. 1,313,700; Aug. 19; v. 265; p. 399.
- Pump. Air. G. Klundt. No. 1,309,528; July 8; v. 264; p. 309.

- Pump, O. H. Koelker. No. 1,324,905; Dec. 16; v. 269; p. 424.
- Pump, W. T. Krause. No. 1,305,290; June 3; v. 263; p. 12.
- Pump, E. P. Larsh. No. 1,301,282; Apr. 22; v. 261; p. 677.
- Pump, H. Mueller. No. 1,301,485; Apr. 22; v. 261; p. 715.
- Pump, P. A. Myers. No. 1,320,784; Nov. 4; v. 268; p. 80.
- Pump, A. L. Owen. No. 1,305,487; June 3; v. 263; p. 48.
- Pump, J. Partain. No. 1,326,777; Dec. 30; v. 269; p. 828.
- Pump, P. M. Scanlan. No. 1,314,707; Sept. 2; v. 266; p. 44.
- Pump, W. A. Shorb. No. 1,303,975; May 20; v. 262; p. 345.
- Pump, R. B. Smith. No. 1,322,145; Nov. 18; v. 268; p. 450.
- Pump, J. M. Stratton. No. 1,297,035; Mar. 11; v. 260; p. 311.
- Pump, S. A. Strickland. No. 1,315,257; Sept. 9; v. 266; p. 153.
- Pump, F. G. Tefft. No. 1,320,942; Nov. 4; v. 268; p. 110.
- Pump, H. Wanamaker. No. 1,303,621; May 13; v. 262; p. 241.
- Pump, D. M. Watson. No. 1,313,359; Aug. 19; v. 265; p. 335.
- Pump, J. H. Whitaker. No. 1,314,448; Aug. 26; v. 265; p. 576.
- Pump, E. B. White. No. 1,321,346; Nov. 11; v. 268; p. 250.
- Pump, E. C. Wilson. No. 1,299,083; Apr. 1; v. 261; p. 107.
- Pump, W. W. Wilson. No. 1,321,174; Nov. 11; v. 268; p. 217.
- Pump, C. Wirth. No. 1,307,071; June 17; v. 263; p. 408.
- Pump, A. E. Worster. No. 1,294,014; Feb. 11; v. 259; p. 273.
- Pump, Air-. G. L. Campfield and V. F. Shutt. No. 1,315,089; Sept. 2; v. 266; p. 113.
- Pump, Air-. R. N. Ehrhart. No. 1,326,652; Dec. 30; v. 269; p. 804.
- Pump, Air-. J. Hauser. No. 1,324,894; Dec. 16; v. 269; p. 422.
- Pump, Air-. G. E. Hazard. No. 1,291,504; Jan. 14; v. 258; p. 378.
- Pump, Air-. E. P. Hultin. No. 1,321,209; Nov. 11; v. 268; p. 224.
- Pump, Air-. P. W. Keating. No. 1,319,775; Oct. 28; v. 267; p. 513.
- Pump, Air-. P. L. Savage and H. E. Morton. No. 1,310,876; July 22; v. 264; p. 625.
- Pump, Air-. P. M. Scanlan. No. 1,301,751; Apr. 22; v. 261; p. 766.
- Pump, Air-. S. A. Snell. No. 1,292,905; Jan. 28; v. 258; p. 769.
- Pump, Air-. V. L. Snyder. No. 1,326,427; Dec. 30; v. 269; p. 761.
- Pump, Air-. A. Terry. No. 1,326,620; Dec. 30; v. 269; p. 798.
- Pump, Air-. R. Warnock. No. 1,305,758; June 3; v. 263; p. 100.
- Pump, Air-. R. Warnock. No. 1,322,273; Nov. 18; v. 268; p. 475.
- Pump, Air-lift. L. T. Edwards. No. 1,302,780; May 6; v. 262; p. 56.
- Pump, Air-lift. F. P. Rust. No. 1,314,539; Sept. 2; v. 266; p. 12.
- Pump, Air-lift. R. H. Tucker. No. 1,300,053; Apr. 8; v. 261; p. 353.
- Pump and blower, Rotary. L. H. Rogers. No. 1,318,989; Oct. 7; v. 267; p. 63.
- Pump and cleaning device, Air-. A. Loppacker. No. 1,314,277; Aug. 26; v. 265; p. 543.
- Pump and motor. B. V. Nordberg. No. 1,315,680; Sept. 9; v. 266; p. 228.
- Pump and motor, Combined fluid. G. Olson. No. 1,291,618; Jan. 14; v. 258; p. 405.
- Pump and motor, Combined fluid. G. Olson. No. 1,316,855; Sept. 23; v. 266; p. 511.
- Pump and motor, Combined fluid-pressure. R. Maw and W. B. McLean. No. 1,308,436; July 1; v. 264; p. 78.
- Pump and pot, Melting. H. A. W. Wood. No. 1,305,430; June 3; v. 263; p. 38.
- Pump and strainer therefor. O. F. Persson. No. 1,306,621; June 10; v. 263; p. 292.
- Pump and the like, Rotary. A. E. Lole. No. 1,291,037; Jan. 14; v. 258; p. 270.
- Pump attachment. J. W. Dunn. No. 1,290,129; Jan. 7; v. 258; p. 28.
- Pump attachment, Stomach-. W. St. Clair and B. S. Robertson. No. 1,313,610; Aug. 19; v. 265; p. 383.
- Pump, Automatic. W. S. Fouts. No. 1,321,022; Nov. 4; v. 268; p. 125.
- Pump, Automatic water-. C. Skare. No. 1,292,897; Jan. 28; v. 258; p. 767.
- Pump, Automobile-driven tire-. G. E. Hazard. No. 1,323,053; Nov. 25; v. 268; p. 673.
- Pump, Automobile-tire-. G. E. Hazard. No. 1,295,491; Feb. 25; v. 259; p. 673.
- Pump, Automobile-tire. G. E. Hazard. No. 1,311,693; July 29; v. 264; p. 809.
- Pump base and bracket for sinks, Sanitary. H. J. Divekey. No. 1,304,949; May 27; v. 262; p. 566.
- Pump-base, Sheet-metal. H. E. Spencer. No. 1,290,796; Jan. 7; v. 258; p. 188.
- Pump, Bicycle-. B. Black and A. Cook. No. 1,319,137; Oct. 21; v. 267; p. 268.
- Pump, Bilge-. L. Weston and J. R. Jones. No. 1,305,509; June 3; v. 263; p. 53.
- Pump, Bilge-. L. Weston and J. R. Jones. No. 1,305,508; June 3; v. 263; p. 52.
- Pump, Centrifugal. H. A. J. de Bijl Nachenius. No. 1,298,248; Mar. 25; v. 260; p. 625.
- Pump, Centrifugal. E. F. Fisher. No. 1,320,216; Oct. 28; v. 267; p. 594.
- Pump, Centrifugal. O. Haentjens. No. 1,312,979; Aug. 12; v. 265; p. 246.
- Pump, Centrifugal. P. A. Petersen. No. 1,308,108; July 1; v. 264; p. 19.
- Pump, Centrifugal. W. Ross. No. 1,293,938; Feb. 11; v. 259; p. 254.
- Pump, Centrifugal. \*W. A. Simond. No. 1,295,621; Feb. 25; v. 259; p. 704.
- Pump, Chain-. E. Arsenovites. No. 1,292,226; Jan. 21; v. 258; p. 587.
- Pump, Circulating-. W. Zacharias. No. 1,304,843; May 27; v. 262; p. 547.
- Pump column, Deep-well-. A. C. Paulsmeier. No. 1,301,597; Apr. 22; v. 261; p. 735.
- Pump, Combination measuring and transfer tank-. A. L. Kirkwood. No. 1,297,865; Mar. 18; v. 260; p. 518.
- Pump, Combined centrifugal and air-lift. C. Hallauer. No. 1,295,981; Mar. 4; v. 260; p. 37.
- Pump, Compound air-. C. G. Bauer. No. 1,308,387; July 1; v. 264; p. 69.
- Pump, Compound air-. S. G. Skinner. No. 1,322,967; Nov. 25; v. 268; p. 657.
- Pump, Computing-. R. D. Moffitt. No. 1,303,708; May 13; v. 262; p. 257.
- Pump connection for pneumatic tires. C. Schroder. No. 1,301,508; Apr. 22; v. 261; p. 719.
- Pump control, Air-lift-. D. K. Hutchcraft. No. 1,322,305; Nov. 18; v. 268; p. 481.
- Pump-controlling mechanism, Pressure-operated. A. Rydquist. No. 1,310,503; July 22; v. 264; p. 556.
- Pump-coupling. E. Q. Moses. No. 1,318,402; Oct. 14; v. 267; p. 203.
- Pump-coupling. M. C. Schweinert. No. 1,297,741; Mar. 18; v. 260; p. 492.
- Pump-coupling or the like. E. V. Myers. No. 1,297,719; Mar. 18; v. 260; p. 487.
- Pump, Cow-milker. M. E. Jernberg. No. 1,295,511; Feb. 25; v. 259; p. 679.
- Pump, Deep-well. B. Andrews. No. 1,313,245; Aug. 19; v. 265; p. 314.
- Pump, Deep-well. N. O. Fleming. No. 1,294,251; Feb. 11; v. 259; p. 329.
- Pump, Deep-well. F. J. Hamlin. No. 1,294,654; Feb. 18; v. 258; p. 458.
- Pump, Deep-well centrifugal. M. T. Chapman. No. 1,320,736; Nov. 4; v. 268; p. 70.
- Pump, Deep-well centrifugal turbine-. M. T. Chapman. No. 1,320,735; Nov. 4; v. 268; p. 70.
- Pump, Diaphragm-. J. C. Gorman, Jr. No. 1,296,503; Mar. 4; v. 260; p. 153.
- Pump, Dispensing and measuring. F. L. and F. E. Dayton and C. H. Edwards. No. 1,320,845; Nov. 4; v. 268; p. 91.
- Pump, Double-acting well-. T. Peters. No. 1,302,210; Apr. 29; v. 261; p. 884.
- Pump, Double-diaphragm. H. Stommel. No. 1,321,159; Nov. 11; v. 268; p. 214.
- Pump, Double-cylinder. J. Gorman, Jr. No. 1,308,238; July 1; v. 264; p. 43.
- Pump, Drain-storage. C. F. Brandenberger. No. 1,321,709; Nov. 11; v. 268; p. 319.
- Pump driving mechanism, Chain-. W. F. Edmondson. No. 1,304,033; May 20; v. 262; p. 355.
- Pump, Duplex. C. R. Lang. No. 1,301,459; Apr. 22; v. 261; p. 710.
- Pump, Eccentric-driven. C. H. Freeman. No. 1,314,322; Aug. 26; v. 265; p. 551.
- Pump, Elastic-piston. M. J. J. Lorraine. No. 1,303,080; May 6; v. 262; p. 114.
- Pump, Fire-extinguishing. W. Van Guilder. No. 1,320,512; Nov. 4; v. 268; p. 29.
- Pump, Fluid-. R. E. Newcomb. No. 1,307,210; June 17; v. 263; p. 432.
- Pump, Fluid-pressure. H. M. Truscott. No. 1,316,468; Sept. 16; v. 266; p. 390.
- Pump, Foot-. W. J. Bauer. No. 1,305,049; May 27; v. 262; p. 586.
- Pump for automobiles, Air-. G. W. Kellogg. No. 1,295,991; Mar. 4; v. 260; p. 39.
- Pump for compression and vacuum, Centrifugal. E. C. D'Yarmett. No. 1,310,116; July 15; v. 264; p. 454.
- Pump for feeding liquid-fuel engines, &c. E. H. Tartrais. No. 1,315,648; Sept. 9; v. 266; p. 223.
- Pump for internal-combustion engines, Fuel-. G. D. Pogue. No. 1,293,192; Feb. 4; v. 259; p. 50.



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- Pump for irrigation, Turbine. J. T. Lackey. No. 1,299,840; Apr. 8; v. 261; p. 308.
- Pump for motor-vehicles. S. A. Strickland. No. 1,294,564; Feb. 18; v. 259; p. 437.
- Pump for motor-vehicles. S. A. Strickland. (Reissue.) No. 14,621; Mar. 25; v. 260; p. 708.
- Pump for musical instruments, Pressure-controlled. T. F. Cheek. No. 1,303,029; May 6; v. 262; p. 105.
- Pump for pneumatic vehicle-tires, Compensating. H. C. Schroeder. No. 1,311,533; July 29; v. 264; p. 781.
- Pump for receptacles. E. L. Cannon. No. 1,317,483; Sept. 30; v. 266; p. 666.
- Pump, Gasolene. J. F. Denison. No. 1,320,607; Nov. 4; v. 268; p. 47.
- Pump, Gasolene-dispensing. W. T. Hatmaker. (Reissue.) No. 14,702; Aug. 5; v. 265; p. 123.
- Pump, Gasolene-dispensing. J. J. Macbeth. No. 1,301,861; Apr. 29; v. 261; p. 818.
- Pump-governor. L. D. Lovekin. No. 1,294,497; Feb. 18; v. 259; p. 422.
- Pump, Grease. C. F. Attwood. No. 1,295,670; Feb. 25; v. 259; p. 716.
- Pump, Grease-dispensing. C. R. Miller. No. 1,305,827; June 3; v. 263; p. 113.
- Pump, Hand. J. F. Rose. No. 1,293,936; Feb. 11; v. 259; p. 254.
- Pump-head, Automatic self plumbing and oiling. F. H. Palmer and S. C. Carter. No. 1,317,096; Sept. 23; v. 266; p. 556.
- Pump-head, Double-acting. C. J. Schenk. No. 1,322,470; Nov. 18; v. 268; p. 513.
- Pump, Hydraulic. P. Swenson. No. 1,296,875; Mar. 11; v. 260; p. 275.
- Pump, Hydroturbine vacuum. E. F. McCarthy. No. 1,296,828; Mar. 11; v. 260; p. 263.
- Pump, Hydroturbine vacuum. B. Skidmore, Jr. No. 1,312,707; Aug. 12; v. 265; p. 192.
- Pump indicator, Oil. G. W. Morris. No. 1,300,291; Apr. 15; v. 261; p. 431.
- Pump-jack. W. L. Dayton. No. 1,309,842; July 15; v. 264; p. 404.
- Pump-jack. W. L. Dayton. No. 1,309,843; July 15; v. 264; p. 404.
- Pump-jack. W. Lively. No. 1,301,856; Apr. 29; v. 261; p. 817.
- Pump-jack, Balancing. W. L. Dayton. No. 1,293,608; Feb. 4; v. 259; p. 147.
- Pump-jack, Even-balance. W. L. Dayton. No. 1,293,609; Feb. 4; v. 259; p. 147.
- Pump, Lift. F. English. No. 1,294,069; Feb. 11; v. 259; p. 286.
- Pump, Liquid-dispensing. W. T. Hatmaker. No. 1,316,032; Sept. 16; v. 266; p. 308.
- Pump, Lubricating-oil. A. Riedler. No. 1,295,211; Feb. 25; v. 259; p. 609.
- Pump-lubricator. W. V. Turner. No. 1,312,650; Aug. 12; v. 265; p. 182.
- Pump, Measuring. J. B. Davis. No. 1,302,640; May 6; v. 262; p. 30.
- Pump, Measuring. N. D. Hull. No. 1,291,528; Jan. 14; v. 258; p. 384.
- Pump, Measuring and dispensing. G. W. MacKenzie, Jr., and R. Crowder. No. 1,311,172; July 29; v. 264; p. 713.
- Pump motor-cooling system, Fire. W. G. Hawley. No. 1,291,502; Jan. 14; v. 258; p. 378.
- Pump, motor, or like apparatus. R. F. Carey and A. A. Todd. No. 1,325,434; Dec. 16; v. 269; p. 522.
- Pump, Multicylinder. W. J. Webb. No. 1,316,258; Sept. 16; v. 266; p. 350.
- Pump, Multiple-bellows. L. R. Roberts. No. 1,307,459; June 24; v. 263; p. 512.
- Pump, Oil. A. L. Hawkesworth. No. 1,296,077; Mar. 4; v. 260; p. 59.
- Pump, Oil-well. R. Gregory. No. 1,317,921; Oct. 7; v. 267; p. 49.
- Pump, Oil-well. R. Gregory. No. 1,326,338; Dec. 30; v. 269; p. 744.
- Pump, Oil-well. R. B. Thurston. No. 1,318,513; Oct. 14; v. 267; p. 224.
- Pump-oller. G. P. Anthes. No. 1,325,134; Dec. 16; v. 269; p. 467.
- Pump-operating mechanism. B. Brynteson. No. 1,319,640; Oct. 21; v. 267; p. 465.
- Pump-operating mechanism. B. Brynteson. No. 1,319,641; Oct. 21; v. 267; p. 465.
- Pump-operating mechanism. L. B. Hall. No. 1,292,457; Jan. 28; v. 258; p. 662.
- Pump or blower, Rotary. J. Hinsch. No. 1,304,046; May 20; v. 262; p. 358.
- Pump or engine construction. C. A. Anderson. No. 1,326,889; Dec. 30; v. 269; p. 848.
- Pump or engine, Rotary. S. Larsson. No. 1,297,700; Mar. 18; v. 260; p. 482.
- Pump or engine, Rotary. J. A. Svensson. No. 1,297,749; Mar. 18; v. 260; p. 494.
- Pump, Pneumatic. M. C. Walls. No. 1,305,040; May 27; v. 262; p. 584.
- Pump-regulator or relief-valve. R. W. E. Hayes. No. 1,314,746; Sept. 2; v. 266; p. 51.
- Pump, Revolving. W. H. Pease. No. 1,294,347; Feb. 11; v. 259; p. 351.
- Pump-rod bearing. A. Barber. No. 1,302,757; May 6; v. 262; p. 52.
- Pump-rod, counteracting device. J. M. Born. No. 1,290,493; Jan. 7; v. 258; p. 116.
- Pump, Rotary. A. A. Aust. No. 1,321,585; Nov. 11; v. 268; p. 295.
- Pump, Rotary. A. L. Bausman. No. 1,309,237; July 8; v. 264; p. 255.
- Pump, Rotary. F. P. Bosch. No. 1,321,706; Nov. 11; v. 268; p. 318.
- Pump, Rotary. M. T. Chapman. No. 1,307,115; June 17; v. 263; p. 416.
- Pump, Rotary. G. P. Dorr. No. 1,323,459; Dec. 2; v. 269; p. 44.
- Pump, Rotary. G. B. Fedrick and J. M. Lee. No. 1,292,287; Jan. 21; v. 258; p. 600.
- Pump, Rotary. J. F. Ford. No. 1,318,319; Oct. 7; v. 267; p. 126.
- Pump, Rotary. J. Frodsham. No. 1,296,500; Mar. 4; v. 260; p. 152.
- Pump, Rotary. E. N. Hill. No. 1,314,647; Sept. 2; v. 266; p. 33.
- Pump, Rotary. W. H. and G. W. Leiman. No. 1,290,251; Jan. 7; v. 258; p. 58.
- Pump, Rotary. R. J. Meyer. No. 1,324,260; Dec. 9; v. 269; p. 240.
- Pump, Rotary. H. F. Smith. No. 1,310,584; July 22; v. 264; p. 571.
- Pump, Rotary. J. Wisniewski. No. 1,319,446; Oct. 21; v. 267; p. 427.
- Pump, Rotary deep-well. M. T. Chapman. No. 1,291,407; Jan. 14; v. 258; p. 356.
- Pump, Rotary hydraulic. L. F. Moody. No. 1,321,538; Nov. 11; v. 268; p. 286.
- Pump runner, Centrifugal. C. B. Andrews. No. 1,320,031; Oct. 28; v. 267; p. 561.
- Pump, Sand and gravel. J. A. Pollard. No. 1,316,507; Sept. 16; v. 266; p. 398.
- Pump, Screw. F. A. and R. Brooks. No. 1,306,169; June 10; v. 263; p. 207.
- Pump, Self-balancing centrifugal. R. Schorr. No. 1,323,412; Dec. 2; v. 269; p. 35.
- Pump-shaft bearing. G. C. Martin. No. 1,292,626; Jan. 28; v. 258; p. 704.
- Pump shoe, Oil-well. E. Bowery. No. 1,312,825; Aug. 12; v. 265; p. 216.
- Pump-spout and drinking-fountain. Combined. G. H. Bell. No. 1,295,677; Feb. 25; v. 259; p. 717.
- Pump-stroke in windmills and the like, Apparatus for automatically varying the. J. S. and W. S. Everett. No. 1,293,389; Feb. 4; v. 259; p. 97.
- Pump-supporting bracket. G. F. and J. W. Lawver. No. 1,306,599; June 10; v. 263; p. 288.
- Pump, Syrup. A. Eckert. No. 1,290,941; Jan. 14; v. 258; p. 249.
- Pump, Tire. H. Casler. No. 1,307,039; June 17; v. 263; p. 402.
- Pump, Tire. C. A. De Rigne. No. 1,323,168; Nov. 25; v. 268; p. 695.
- Pump, Tire. J. T. Fiese. No. 1,301,242; Apr. 22; v. 261; p. 668.
- Pump, Tire. L. W. Meyer. No. 1,326,764; Dec. 30; v. 269; p. 825.
- Pump, Tire-inflating. H. K. Austin. No. 1,304,930; May 27; v. 262; p. 563.
- Pump, Turbine deep-well. F. W. Krogh. No. 1,304,068; May 20; v. 262; p. 361.
- Pump, Vacuum. L. W. Chubb. No. 1,298,664; Apr. 1; v. 261; p. 9.
- Pump, Vacuum. I. Langmuir. No. 1,320,874; Nov. 4; v. 268; p. 97.
- Pump, Vacuum. C. N. Sowden. No. 1,298,111; Mar. 25; v. 260; p. 595.
- Pump, Vacuum. C. N. Sowden. No. 1,298,112; Mar. 25; v. 260; p. 595.
- Pump-valve. W. Wolfe. No. 1,293,284; Feb. 4; v. 259; p. 72.
- Pump-valve and the like. J. J. Voorhees, Jr. No. 1,295,394; Feb. 25; v. 259; p. 651.
- Pump-valve, Self-cleaning. S. H. Graf. No. 1,317,441; Sept. 30; v. 266; p. 657.
- Pump, Valveless. G. J. Dourte. No. 1,312,962; Aug. 12; v. 265; p. 242.
- Pump, Valveless rotary. E. L. Copsey. No. 1,303,169; May 6; v. 262; p. 132.
- Pump, Variable-stroke. H. Centervall. No. 1,321,086; Nov. 11; v. 268; p. 201.
- Pump, Water. O. E. Szekely. No. 1,295,234; Feb. 25; v. 259; p. 614.
- Pump, Wet vacuum. C. V. Kerr. No. 1,319,776; Oct. 28; v. 267; p. 513.
- Pump, Windmill. J. A. Novak. No. 1,317,815; Oct. 7; v. 267; p. 29.
- Pump with a controllable delivery. L. H. L. Bellem. No. 1,321,278; Nov. 11; v. 268; p. 237.
- Pump with adjustable gates, Rotary. L. F. Moody. No. 1,322,810; Nov. 25; v. 268; p. 627.
- Pump, Wooden. G. Sidenstricker and J. W. Miller. No. 1,308,814; July 8; v. 264; p. 176.
- Pump working barrels, Means for reducing wear in. R. E. Carmichael. No. 1,295,848; Mar. 4; v. 260; p. 6.

- Pumps, Air-chamber for. N. O. Fleming. No. 1,290,155; Jan. 7; v. 258; p. 34.
- Pumps and the like. Drainage device for vacuum. E. P. Worden. No. 1,301,209; Apr. 22; v. 261; p. 662.
- Pumps and the like. Muller construction for air. R. Warnock. No. 1,310,723; July 22; v. 264; p. 596.
- Pumps, Attachment for motor-vehicle. S. A. Strickland. No. 1,315,256; Sept. 9; v. 266; p. 153.
- Pumps, Automatic cut-off or cushioning gear for duplex. A. H. Twells. No. 1,296,234; Mar. 4; v. 260; p. 95.
- Pumps, Automatic reversing device for rotary. J. O. Schirmer. No. 1,307,602; June 24; v. 263; p. 537.
- Pumps, Counterbalancing mechanism for single-acting. D. A. Connell. No. 1,295,005; Feb. 18; v. 259; p. 539.
- Pumps, &c., Cup for. D. J. Stoltz. No. 1,297,033; Mar. 11; v. 260; p. 311.
- Pumps, Discharge and drip-pan guard for. F. B. Eilers. No. 1,324,545; Dec. 9; v. 269; p. 295.
- Pumps, Drainage-valve for deep-well. W. H. McKissick. No. 1,314,070; Aug. 26; v. 265; p. 503.
- Pumps, Drive for. A. M'ite. No. 1,313,435; July 1; v. 264; p. 78.
- Pumps, Eduction-pipe for air. A. W. Purchas. No. 1,291,130; Jan. 14; v. 258; p. 292.
- Pumps for internal-combustion engines, Operating mechanism for fuel. A. W. Thompson. No. 1,299,062; Apr. 1; v. 261; p. 103.
- Pumping-head, Deep-well. A. J. Hamlin. No. 1,320,467; Nov. 4; v. 268; p. 21.
- Pumps, Hydrostatic control for. W. M. Stephenson. No. 1,290,397; Jan. 7; v. 258; p. 92.
- Pumping mechanism. L. W. Bodinson. No. 1,321,804; Nov. 18; v. 268; p. 387.
- Pumps, Nozzle for sand. G. E. Battisfore. No. 1,298,642; Apr. 1; v. 261; p. 5.
- Pumps or the like, Automatic control for vacuum. F. R. Perry. No. 1,297,005; Mar. 11; v. 260; p. 305.
- Pumps or the like, Strainer and valve-box for. D. B. Smith. No. 1,297,603; Mar. 18; v. 260; p. 461.
- Pumps, Sand-screen for. S. Wood. No. 1,310,686; July 22; v. 264; p. 589.
- Pumps, Self-lubricating piston for air. P. H. Stapley. No. 1,306,640; June 10; v. 263; p. 296.
- Pumps, Shock-absorber for deep-well. R. E. L. Holmes. No. 1,292,778; Jan. 28; v. 258; p. 739.
- Pumps, Spring-counterbalance for. J. O. Bane. No. 1,323,568; Dec. 2; v. 269; p. 65.
- Pumps, Working barrel for oil-well. W. A. McGregor. No. 1,301,068; Apr. 15; v. 261; p. 598.
- Pumping apparatus. W. B. Robinson. No. 1,296,852; Mar. 11; v. 260; p. 269.
- Pumping apparatus. R. R. Temple. No. 1,297,930; Mar. 18; v. 260; p. 532.
- Pumping apparatus for musical instruments. M. S. Wright. No. 1,306,937; June 17; v. 263; p. 383.
- Pumping attachment for motor-vehicles. J. O. Johnson. No. 1,298,957; Apr. 1; v. 261; p. 78.
- Pumping corrosive liquids, Method of and apparatus for. C. F. Wallace and M. F. Tiernan. No. 1,308,515; July 1; v. 264; p. 92.
- Pumping fluid, Apparatus for. H. A. Humphrey and W. J. Rusdell. No. 1,309,943; July 15; v. 264; p. 424.
- Pumping-jack. B. Moore and G. O. Stansbury. No. 1,310,365; July 15; v. 264; p. 498.
- Pumping-machine. M. T. and M. C. Chapman. No. 1,307,116; June 17; v. 263; p. 416.
- Pumping machinery. M. T. Chapman. No. 1,302,899; May 6; v. 262; p. 80.
- Pumping mechanism. E. E. Bartlett. No. 1,306,572; June 10; v. 263; p. 283.
- Pumping mechanism. L. A. Laurensen. No. 1,304,330; May 20; v. 262; p. 411.
- Pumping mechanism, Fluid-operated. S. J. Tobin. No. 1,304,411; May 20; v. 262; p. 427.
- Pumping, Method of and system for. W. R. Greenlee. No. 1,310,615; July 22; v. 264; p. 577.
- Pumping system. H. E. La Bour. No. 1,314,875; Sept. 2; v. 266; p. 74.
- Pumping system. A. M. Stewart. No. 1,318,117; Oct. 7; v. 267; p. 86.
- Pumping system. F. C. Weber. No. 1,309,229; July 8; v. 264; p. 253.
- Punch. J. L. Berglund. No. 1,308,272; July 1; v. 264; p. 49.
- Punch. J. S. Keller. No. 1,320,868; Nov. 4; v. 268; p. 96.
- Punch. E. L. Miller. No. 1,306,920; June 17; v. 263; p. 381.
- Punch. J. Monacelli. No. 1,295,785; Feb. 25; v. 259; p. 742.
- Punch-press. C. R. Nelson. No. 1,319,411; Oct. 21; v. 267; p. 421.
- Punch. R. M. Simpson. No. 1,325,309; Dec. 16; v. 269; p. 500.
- Punch and die for embossing characters and raising bosses therefor previous to the embossing actions. C. A. Stickney. No. 1,301,333; Apr. 22; v. 261; p. 687.
- Punch and punch-holder. W. C. Desmond. No. 1,291,640; Jan. 14; v. 258; p. 411.
- Punch and spacing device, Combined. H. Kershaw. No. 1,306,013; June 10; v. 263; p. 178.
- Punch, Automatic. J. W. Hyatt. No. 1,292,323; Jan. 21; v. 258; p. 610.
- Punch, Ballot-seal. S. C. Young. No. 1,312,070; Aug. 5; v. 265; p. 41.
- Punch, Center. F. H. Ryan. No. 1,313,335; Aug. 19; v. 265; p. 330.
- Punch, Floating. P. G. Pater. No. 1,298,088; Mar. 25; v. 260; p. 590.
- Punch for perforating films. O. Voetzer. No. 1,302,249; Apr. 29; v. 261; p. 891.
- Punch, Gromet. P. J. Myers. No. 1,299,210; Apr. 1; v. 261; p. 135.
- Punch, Hand. P. R. Hahneemann. No. 1,305,898; June 3; v. 263; p. 126.
- Punch, Hand. H. Rosenberg. No. 1,292,073; Jan. 21; v. 258; p. 549.
- Punch, Hand. H. Rosenberg. No. 1,324,621; Dec. 9; v. 269; p. 310.
- Punch-holder, Adjustable. E. Kavanagh. No. 1,313,699; Aug. 19; v. 265; p. 399.
- Punch-press. W. S. Gooding. No. 1,305,461; June 3; v. 263; p. 44.
- Punch-press. W. T. Sears. No. 1,312,213; Aug. 5; v. 265; p. 68.
- Punch-press guard. J. M. Jelsema. No. 1,301,567; Apr. 22; v. 261; p. 730.
- Punch-press safety device. N. Murphy. No. 1,295,827; Feb. 25; v. 259; p. 752.
- Punch-presser. P. J. Culhane, Jr. No. 1,315,010; Sept. 2; v. 266; p. 99.
- Punch, Ticket. G. W. Prouty. No. 1,312,492; Aug. 5; v. 265; p. 120.
- Punching and drilling machine, &c. B. S. Elder. No. 1,313,277; Aug. 19; v. 265; p. 320.
- Punching and folding machine. P. R. Glass. No. 1,315,223; Sept. 9; v. 266; p. 147.
- Punching and like machine. W. Wood. No. 1,296,895; Mar. 11; v. 260; p. 280.
- Punching and riveting machine. F. Y. Pearne. No. 1,305,972; June 3; v. 263; p. 141.
- Punching apparatus, Strip. B. M. Shanklin. No. 1,320,178; Oct. 28; v. 267; p. 588.
- Punching-machine. L. H. Bullard. No. 1,305,766; June 3; v. 263; p. 101.
- Punching-machine. A. B. Fowler. No. 1,308,780; July 8; v. 264; p. 170.
- Punching-machine. P. S. Graver. No. 1,301,931; Apr. 29; v. 261; p. 832.
- Punching-machine engine. W. P. Krause. No. 1,306,067; June 10; v. 263; p. 188.
- Punching-machine measuring attachment. T. F. Tyler. No. 1,295,239; Feb. 25; v. 259; p. 616.
- Punching machine, Metal. R. Shaw. No. 1,303,603; May 13; v. 262; p. 238.
- Punching machine, Plate. H. Cohen. No. 1,320,206; Oct. 28; v. 267; p. 593.
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- Punching-machines, Gag and stock-release for. M. C. Hutchinson. No. 1,317,373; Sept. 30; v. 266; p. 644.
- Punching machinery. G. P. Thomas. No. 1,311,539; July 29; v. 264; p. 782.
- Punching-press. F. L. Morse. No. 1,309,907; July 15; v. 264; p. 417.
- Puncture-closing solution. R. Noll and C. C. Shephard. No. 1,302,416; Apr. 29; v. 261; p. 924.
- Puncture-healing composition. M. R. Weaver and H. Clemens. No. 1,299,273; Apr. 1; v. 261; p. 150.
- Purifying lampblack and making carbon articles. W. R. Mott. No. 1,303,362; May 13; v. 262; p. 195.
- Purifying preparations, Making. R. W. Mumford. No. 1,314,204; Aug. 26; v. 265; p. 528.
- Purse, Rafter's. P. Glamzo. No. 1,314,392; Aug. 26; v. 265; p. 565.
- Purse, Mailing. F. K. Alstrand. No. 1,315,696; Sept. 9; v. 266; p. 231.
- Purse safety attachment. H. Bashinski. No. 1,298,278; Mar. 25; v. 260; p. 632.
- Purveying device. G. W. Woodward. No. 1,304,437; May 20; v. 262; p. 432.
- Push-button switch. J. O. Cadieux. No. 1,303,634; May 13; v. 262; p. 244.
- Push-button switch. I. Carlson and R. A. Johnson. No. 1,290,082; Jan. 7; v. 258; p. 16.
- Push-button switch. R. H. Manson. No. 1,295,913; Mar. 4; v. 260; p. 21.
- Push-button. A. F. O. Wilck. No. 1,306,092; June 10; v. 263; p. 192.
- Push-button switch. A. K. Sutherland. No. 1,292,140; Jan. 21; v. 258; p. 566.



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- Push-pin. Safety. J. P. Burke. No. 1,303,025; May 6; v. 262; p. 104.
- Puttee. H. T. Loomis and D. Z. Hunt. No. 1,300,851; Apr. 15; v. 261; p. 550.
- Puttee. J. M. Roche. No. 1,322,202; Nov. 18; v. 268; p. 461.
- Puttee and making the same. J. Boyd. No. 1,307,235; June 17; v. 263; p. 437.
- Puttees, Making. G. H. Shibley. No. 1,300,661; Apr. 15; v. 261; p. 509.
- Puzzle. P. V. R. Erben. No. 1,299,695; Apr. 8; v. 261; p. 274.
- Puzzle. A. J. Henderson. No. 1,296,955; Mar. 11; v. 260; p. 294.
- Puzzle. G. A. King. No. 1,295,521; Feb. 25; v. 259; p. 681.
- Puzzle. F. A. McCabe. No. 1,302,188; Apr. 29; v. 261; p. 879.
- Puzzle. J. E. O'Brien. No. 1,325,369; Dec. 16; v. 269; p. 510.
- Puzzle. H. A. Peck. No. 1,314,898; Sept. 2; v. 266; p. 78.
- Puzzle. W. H. Smiley. No. 1,309,659; July 15; v. 264; p. 371.
- Puzzle. W. W. Stauffer. No. 1,325,122; Dec. 16; v. 269; p. 465.
- Puzzle. C. Wittrup. No. 1,294,013; Feb. 11; v. 259; p. 273.
- Pyrolusite, Treating. C. V. Jorgensen. No. 1,303,911; May 20; v. 262; p. 333.
- Pyrometer. E. L. Clark. No. 1,312,951; Aug. 12; v. 265; p. 240.
- Pyrometer. L. Forester. No. 1,315,716; Sept. 9; v. 266; p. 235.
- Pyrometer, &c. G. F. Machlet. No. 1,294,688; Feb. 18; v. 258; p. 466.
- Pyrometric method and apparatus. E. F. Northrup. No. 1,323,309; Dec. 2; v. 269; p. 16.
- Pyrometer, Radiation-. C. T. Wallis and R. C. Schwarz. No. 1,318,516; Oct. 14; v. 267; p. 225.
- Pyrometer-switch. C. S. Gordon. No. 1,320,544; Nov. 4; v. 268; p. 35.
- Pyrotechnics, Gerbe and lance piece for. H. J. Martin. No. 1,291,584; Jan. 14; v. 258; p. 397.
- Pyroxylin and products thereof, Treating. A. Schwarman. No. 1,323,792; Dec. 2; v. 269; p. 107.
- Pyroxylin bodies, Producing. M. V. Hitt. No. 1,321,633; Nov. 11; v. 268; p. 304.
- Pyroxylin bodies, Solvent for. M. V. Hitt. No. 1,321,634; Nov. 11; v. 268; p. 305.
- Pyroxylin composition. F. Sparre. No. 1,301,187; Apr. 22; v. 261; p. 657.
- Pyroxylin composition and making same. W. F. Doerflinger. No. 1,320,458; Nov. 4; v. 268; p. 19.
- Pyroxylin compounds, Making. W. G. Lindsay. No. 1,292,819; Jan. 28; v. 258; p. 749.
- Pyroxylin solvent and compositions containing same. E. M. Flaherty. No. 1,321,611; Nov. 11; v. 268; p. 300.
- Pyroxylin solvent and composition containing same. E. M. Flaherty. No. 1,323,624; Dec. 2; v. 269; p. 75.
- Quantity-stop. J. B. Davis. No. 1,291,774; Jan. 21; v. 258; p. 474.
- Quick-adjustable wrench. W. L. Bessolo. No. 1,312,471; Aug. 5; v. 265; p. 116.
- Quick-adjustable wrench. W. L. Bessolo. No. 1,319,944; Oct. 28; v. 267; p. 545.
- Quick-adjustable wrench. W. L. Bessolo. No. 1,319,945; Oct. 28; v. 267; p. 545.
- Quick-adjustable wrench. W. L. Bessolo. No. 1,319,946; Oct. 28; v. 267; p. 545.
- Quick-break switch. H. M. Broadwell. No. 1,314,302; Aug. 26; v. 265; p. 548.
- Quick-break switch. K. Knudsen. No. 1,309,895; July 15; v. 264; p. 414.
- Quick-change mechanism. L. A. Carter. No. 1,296,161; Mar. 4; v. 260; p. 80.
- Quicksilver from its ores, Apparatus for recovering. H. W. Gould. No. 1,317,920; Oct. 7; v. 267; p. 49.
- Quilt-treating machine. F. R. Holdred. No. 1,294,803; Feb. 18; v. 259; p. 493.
- Quilter-frame. W. P. Orr. No. 1,311,413; July 29; v. 264; p. 758.
- Quilting apparatus. J. D. Park. No. 1,326,776; Dec. 30; v. 269; p. 827.
- Quilting-frame. L. B. and M. E. Haines. No. 1,300,724; Apr. 15; v. 261; p. 523.
- Quilting-machine. W. H. Lutz. No. 1,313,308; Aug. 19; v. 265; p. 326.
- Quinone and quinol, Method and apparatus for producing. F. T. Kitchen. No. 1,322,580; Nov. 25; v. 268; p. 585.
- Quinone, Production of. J. M. Weiss and C. R. Downs. No. 1,318,631; Oct. 14; v. 267; p. 217.
- Rabbeting and recessing and chamfering square or angular corners, Machine for. E. W. Manton. No. 1,298,531; Mar. 25; v. 260; p. 686.
- Rack: See—
- Automobile-rack.
  - Automobile bed-rack.
  - Bag-rack.
  - Bail-rack.
  - Barrel-rack.
  - Beet and grain dump rack.
  - Book-rack.
  - Boot and shoe rack.
  - Bottle and jar rack.
  - Bread-rack.
  - Broom-rack.
  - Can tilting and opening rack.
  - Car-rack.
  - Card-rack.
  - Carpet-beating rack.
  - Clothes-rack.
  - Clothing-rack.
  - Coat-rack.
  - Collapsible rack.
  - Core-rack.
  - Corn-rack.
  - Cut-sole rack.
  - Desk-tray rack.
  - Display-rack.
  - Drying-rack.
  - Electrode-rack.
  - Field straw-rack.
  - Filling-rack.
  - Folding jar-rack.
  - Fumigating-rack.
  - Garment-rack.
  - Grain-rack.
  - Gun-rack.
  - Hat-rack.
  - Hay-curing rack.
  - Hay-stacking rack.
  - Hose-rack.
  - Locking cue-rack.
  - Packing-rack.
  - Paper-roll rack.
  - Pen-rack.
  - Preserving and canning rack.
  - Revolving rack.
  - Shelving-rack.
  - Stamp-rack.
  - Storage-rack.
  - Tire-rack.
  - Towel-rack.
  - Trunk-rack.
  - Valve test-rack.
  - Wagon hay-rack.
  - Washboiler-rack.
- Rack. W. G. Bonner. No. 1,309,608; July 15; v. 264; p. 361.
- Rack. J. A. Ide. No. 1,325,472; Dec. 16; v. 269; p. 529.
- Rack and foot-rest. J. J. Batterman. No. 1,298,437; Mar. 25; v. 260; p. 665.
- Rack for umbrellas and the like. N. MacInnes. No. 1,313,896; Aug. 26; v. 265; p. 469.
- Rack or file for correspondence and the like. H. O. Ross. No. 1,298,628; Mar. 25; v. 260; p. 705.
- Radiant rays, Selective suppression of. C. F. Jenkins. No. 1,302,802; May 6; v. 262; p. 61.
- Radiator. A. Benzinger. No. 1,319,509; Oct. 21; v. 267; p. 439.
- Radiator. D. M. Bowen. No. 1,311,797; July 29; v. 264; p. 829.
- Radiator. E. J. Bowman. No. 1,311,549; July 29; v. 264; p. 784.
- Radiator. M. Clar. No. 1,316,425; Sept. 16; v. 266; p. 382.
- Radiator. A. T. Clark. No. 1,313,518; Aug. 19; v. 265; p. 365.
- Radiator. T. N. Coffelder. No. 1,314,048; Aug. 26; v. 265; p. 499.
- Radiator. J. H. Collins. No. 1,297,447; Mar. 18; v. 260; p. 429.
- Radiator. K. Emmerman and W. Nathanson. No. 1,313,077; Aug. 12; v. 265; p. 265.
- Radiator. C. Fastinger. No. 1,321,515; Nov. 11; v. 268; p. 282.
- Radiator. J. M. Fedders. No. 1,294,435; Feb. 18; v. 259; p. 408.
- Radiator. J. M. Fedders. No. 1,295,142; Feb. 25; v. 259; p. 593.
- Radiator. J. M. Fedders. No. 1,296,058; Mar. 4; v. 260; p. 55.
- Radiator. J. M. Fedders. No. 1,296,785; Mar. 11; v. 260; p. 254.
- Radiator. J. M. Fedders. No. 1,297,454; Mar. 18; v. 260; p. 430.
- Radiator. J. M. Fedders. No. 1,298,192; Mar. 25; v. 260; p. 613.
- Radiator. J. A. Irwin. No. 1,314,064; Aug. 26; v. 265; p. 502.
- Radiator. I. M. Jacobs and W. Cramer. No. 1,294,807; Feb. 18; v. 259; p. 494.
- Radiator. I. M. Jacobs and W. Cramer. No. 1,319,871; Oct. 28; v. 267; p. 531.
- Radiator. J. Jauch. No. 1,319,285; Oct. 21; v. 267; p. 397.
- Radiator. W. R. Jones. No. 1,300,172; Apr. 8; v. 261; p. 379.
- Radiator. F. W. Keegan. No. 1,295,518; Feb. 25; v. 259; p. 680.
- Radiator. B. Macfadden. No. 1,322,803; Nov. 25; v. 268; p. 626.
- Radiator. J. J. Russell. No. 1,310,251; July 15; v. 264; p. 479.
- Radiator. F. Satz. No. 1,301,608; Apr. 22; v. 261; p. 738.
- Radiator. H. N. Searles. No. 1,306,976; June 17; v. 263; p. 390.
- Radiator. F. J. Singer. No. 1,313,212; Aug. 12; v. 265; p. 291.
- Radiator. C. H. Taylor. No. 1,313,652; Aug. 19; v. 265; p. 390.
- Radiator. G. J. Thomas. No. 1,298,123; Mar. 25; v. 260; p. 598.
- Radiator and sight-tube for motor-vehicles. I. L. Marks. No. 1,316,847; Sept. 23; v. 266; p. 509.
- Radiator attachment. E. Lieske. No. 1,299,970; Apr. 8; v. 261; p. 335.
- Radiator attachment, Motor-vehicle. I. L. Marks. No. 1,316,846; Sept. 23; v. 266; p. 509.

- Radiator, Automobile. W. Grikscheit. No. 1,320,755; Nov. 4; v. 268; p. 74.
- Radiator, Base-board concealed. C. C. Nuckols. No. 1,301,589; Apr. 22; v. 261; p. 734.
- Radiator box-base. T. H. Walker. No. 1,320,187; Oct. 28; v. 267; p. 589.
- Radiator-cap. I. W. Jacobs and W. Cramer. No. 1,314,521; Sept. 2; v. 266; p. 8.
- Radiator-cap, Dust-catching. W. O. Ecker. No. 1,303,181; May 6; v. 262; p. 134.
- Radiator-carriage. C. Le Tempt and H. W. Green. No. 1,303,691; May 13; v. 262; p. 254.
- Radiator-casing. W. M. Fulton. No. 1,301,419; Apr. 22; v. 261; p. 703.
- Radiator-casing. C. Sonneborn. (Reissue.) No. 14,784; Dec. 30; v. 269; p. 851.
- Radiator-casings, Humidifying device in combination with. W. M. Fulton. No. 1,305,532; June 3; v. 263; p. 57.
- Radiator, Cellular. J. T. Schlacks. No. 1,318,012; Oct. 7; v. 267; p. 67.
- Radiator connections, Protector for flexible. F. O. Lewis. No. 1,324,316; Dec. 9; v. 269; p. 251.
- Radiator construction. A. W. Finlayson. No. 1,311,599; July 29; v. 264; p. 792.
- Radiator construction. H. C. Harrison. No. 1,314,263; Aug. 26; v. 265; p. 540.
- Radiator-core-dipping tank. J. H. Sperry. No. 1,292,909; Jan. 28; v. 258; p. 770.
- Radiator-cores, Clamping-frame for. C. F. Sperry. No. 1,301,793; Apr. 22; v. 261; p. 776.
- Radiator-cores, Making units for. J. M. Fedders. No. 1,322,553; Nov. 25; v. 268; p. 580.
- Radiator-cover. F. K. Eastman. No. 1,308,056; July 1; v. 264; p. 9.
- Radiator-cover and temperature-regulator. W. M. Edmont. No. 1,291,807; Jan. 21; v. 258; p. 481.
- Radiator, Electric. A. Pritzker. No. 1,310,838; July 22; v. 264; p. 618.
- Radiator foot-rest. H. A. Thexton. No. 1,310,552; July 22; v. 264; p. 565.
- Radiator for fireplaces. J. P. Higbee. No. 1,297,964; Mar. 18; v. 260; p. 539.
- Radiator for motor-driven vehicles. P. F. Sperry. No. 1,316,858; Sept. 23; v. 266; p. 511.
- Radiator for motor-vehicles and the like. P. F. Sperry. No. 1,315,249; Sept. 9; v. 266; p. 152.
- Radiator, Gas-. W. H. Cain. No. 1,304,154; May 20; v. 262; p. 377.
- Radiator, Gas-. B. F. Hulse. No. 1,322,444; Nov. 18; v. 268; p. 507.
- Radiator-guard. P. S. Warman. No. 1,306,363; June 10; v. 263; p. 245.
- Radiator-guard. P. S. Warman. No. 1,306,364; June 10; v. 263; p. 246.
- Radiator-hanger. J. A. and J. H. Healy. No. 1,315,492; Sept. 9; v. 266; p. 196.
- Radiator-heater. C. L. C. Magee. No. 1,300,440; Apr. 15; v. 261; p. 462.
- Radiator-hanger. F. P. Murdoch. No. 1,311,908; Aug. 5; v. 265; p. 11.
- Radiator, Heat-. C. Sonneborn. No. 1,320,651; Nov. 4; v. 268; p. 54.
- Radiator-hood. R. Stahl. No. 1,322,970; Nov. 25; v. 268; p. 58.
- Radiator-hood attachment. A. Auferi. No. 1,296,611; Mar. 11; v. 260; p. 214.
- Radiator, Hot-plant. M. L. Foote and W. M. Kingsbury. No. 1,292,291; Jan. 21; v. 258; p. 601.
- Radiator-humidifier. L. T. Hagerman. No. 1,309,519; July 8; v. 264; p. 307.
- Radiator-humidifier attachment. G. W. Olson and C. F. Kroon. No. 1,293,523; Feb. 4; v. 259; p. 128.
- Radiator-indicator. R. T. Newton. No. 1,306,557; June 10; v. 263; p. 280.
- Radiator-lifter. E. R. Lumsden. No. 1,317,300; Sept. 30; v. 266; p. 631.
- Radiator-lifting appliance. E. J. Adamson. No. 1,302,461; Apr. 29; v. 261; p. 933.
- Radiator, Motor-vehicle. H. D. Church. No. 1,314,788; Sept. 2; v. 266; p. 59.
- Radiator-overflow-saving means. L. E. Opie. No. 1,317,723; Oct. 7; v. 267; p. 12.
- Radiator-protector. D. Lofgren. No. 1,291,038; Jan. 14; v. 258; p. 270.
- Radiator-protector. A. L. Mapson. No. 1,310,870; July 22; v. 264; p. 624.
- Radiator, Sheet-metal. T. E. Murray. No. 1,302,201; Apr. 29; v. 261; p. 882.
- Radiator-shield. J. M. Dougherty and H. C. Tabler. No. 1,319,052; Oct. 21; v. 267; p. 352.
- Radiator-shield. L. I. Stewart. No. 1,295,629; Feb. 25; v. 259; p. 706.
- Radiator, Steam-. F. J. Douglass. No. 1,298,186; Mar. 25; v. 260; p. 612.
- Radiator-support. W. Krafve. No. 1,305,810; June 3; v. 263; p. 109.
- Radiator-support. J. and G. T. Mott. No. 1,290,773; Jan. 7; v. 258; p. 183.
- Radiator suspension. F. H. Farmer. No. 1,322,683; Nov. 25; v. 268; p. 604.
- Radiator-thermometer. G. C. Brown. No. 1,310,276; July 15; v. 264; p. 483.
- Radiator-thermometer. G. C. Brown. No. 1,310,321; July 15; v. 264; p. 491.
- Radiator-tubes and automatically applying them to said tubes, Machine for making. C. F. Sperry. No. 1,322,366; Nov. 18; v. 268; p. 492.
- Radiator-tubes, Forming. A. W. Finlayson. No. 1,304,551; May 27; v. 262; p. 493.
- Radiator-tubing. G. Horvath. No. 1,294,463; Feb. 18; v. 259; p. 415.
- Radiator-tubing, Manufacture of. G. E. Wheeler. No. 1,320,430; Nov. 4; v. 268; p. 14.
- Radiator unit. J. M. Fedders. No. 1,299,158; Apr. 1; v. 261; p. 123.
- Radiators, Air-valve protector for. A. R. Morgan. No. 1,326,768; Dec. 30; v. 269; p. 826.
- Radiators, &c., Apparatus for repairing. W. M. Wright. No. 1,315,448; Sept. 9; v. 266; p. 188.
- Radiators, Cooler for automobile and other. S. Baruch. No. 1,323,813; Dec. 2; v. 269; p. 110.
- Radiators, Cooler for internal-combustion-engine. S. Baruch. No. 1,323,812; Dec. 2; v. 269; p. 110.
- Radiators, Die for making core-unit members for. C. F. Sperry. No. 1,302,870; May 6; v. 262; p. 75.
- Radiators, Drainage-plug for water-cooling. F. W. Kidder. No. 1,306,186; June 10; v. 263; p. 210.
- Radiators, Machine for cleaning and repairing. D. I. McMahan. No. 1,297,580; Mar. 18; v. 260; p. 457.
- Radiators, Making. C. Sonneborn. No. 1,320,652; Nov. 4; v. 268; p. 55.
- Radiators, Repairing motor-vehicle. C. E. Schulz. No. 1,319,670; Oct. 21; v. 267; p. 470.
- Radiators, Vent for hot-water. W. H. Cotton and C. H. Kehm. No. 1,326,897; Dec. 30; v. 269; p. 850.
- Radiators, Wall-hanger for. R. T. Mullen and J. W. Moore. No. 1,306,272; June 10; v. 263; p. 229.
- Radiators, Water-sealed trap for. D. F. Morton. No. 1,303,573; May 13; v. 262; p. 232.
- Radio-active ores and means for increasing the activity of the ores, Pad for carrying. P. E. Charles. No. 1,317,659; Sept. 30; v. 266; p. 700.
- Radio communication. H. P. Donle. No. 1,291,641; Jan. 14; v. 258; p. 411.
- Radio method and apparatus. F. A. Kolster. No. 1,311,654; July 29; v. 264; p. 802.
- Radio receiving apparatus. A. N. Edmonds. No. 1,306,474; June 10; v. 263; p. 266.
- Radio transmission. H. J. van der Bijl. No. 1,301,525; Apr. 22; v. 261; p. 723.
- Radioactive device. M. Hartenheim. No. 1,317,082; Sept. 23; v. 266; p. 553.
- Radiocommunication Apparatus for use in. L. de Forest. No. 1,299,356; Apr. 1; v. 261; p. 168.
- Radiodirective control system. J. H. Hammond, Jr. No. 1,319,068; Oct. 21; v. 267; p. 355.
- Radiofrequency interference-balance. L. Espenschied. No. 1,309,400; July 8; v. 264; p. 285.
- Radioselective system. J. H. Hammond, Jr. No. 1,318,342; Oct. 7; v. 267; p. 131.
- Radiosignaling installation. M. C. A. Latour. No. 1,317,025; Sept. 23; v. 266; p. 542.
- Radiosignaling, Method of and apparatus for. R. A. Weagant and H. Shoemaker. No. 1,295,245; Feb. 25; v. 259; p. 617.
- Radiosignaling system. E. F. W. Alexanderson. No. 1,320,959; Nov. 4; v. 268; p. 113.
- Radiosignaling system. C. L. Fortescue. No. 1,304,296; May 20; v. 262; p. 404.
- Radiosignaling system. J. H. Rogers. No. 1,316,188; Sept. 16; v. 266; p. 337.
- Radiosignaling system. J. H. Rogers. No. 1,315,862; Sept. 9; v. 266; p. 262.
- Radiosignaling system, Lifeboat. E. C. Hanson. No. 1,320,390; Nov. 4; v. 268; p. 6.
- Radiotelegraph transmitting system. O. C. Roos. No. 1,309,778; July 15; v. 264; p. 393.
- Radiotelegraphy. L. M. Cockaday. No. 1,299,823; Apr. 8; v. 261; p. 303.
- Radiotelegraphy. L. F. Fuller. No. 1,300,156; Apr. 8; v. 261; p. 376.
- Radiotelegraphy. L. F. Fuller. No. 1,300,157; Apr. 8; v. 261; p. 376.
- Radiotelegraphy. L. F. Fuller. No. 1,309,283; July 8; v. 264; p. 263.
- Radiotelegraphy. R. G. Marx and L. F. Fuller. No. 1,316,172; Sept. 16; v. 266; p. 334.
- Radiotelegraphy system. F. Conrad. No. 1,314,789; Sept. 2; v. 266; p. 59.
- Radiotelephone system. J. H. Payne, Jr. No. 1,313,112; Aug. 12; v. 265; p. 272.
- Radiotelephony. L. de Forest. No. 1,314,351; Aug. 26; v. 265; p. 538.
- Radium emanations, Impregnation of water with. D. H. Kabakjian. No. 1,309,139; July 8; v. 264; p. 237.
- Radium, Recovering. H. N. McCoy. No. 1,292,341; Jan. 21; v. 258; p. 614.
- Radiumizer. H. M. Williamson and S. H. Alexander. No. 1,302,115; Apr. 29; v. 261; p. 866.
- Radium-bar. H. L. Smith. No. 1,296,867; Mar. 11; v. 260; p. 273.
- Radium-rod. J. D. Bridgers. No. 1,324,539; Dec. 9; v. 269; p. 294.



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- Radius-rod. W. G. Hoy. No. 1,302,166; Apr. 29; v. 261; p. 875.
- Radius-rod. J. L. Kedzierski and S. Hatashita. No. 1,291,543; Jan. 14; v. 258; p. 387.
- Radius-rod. R. F. Scalzi. No. 1,306,562; June 10; v. 263; p. 281.
- Radius-rod brace. C. H. Helsley. No. 1,315,552; Sept. 9; v. 266; p. 206.
- Radius-rod brace. S. C. Wallace. No. 1,323,935; Dec. 2; v. 269; p. 134.
- Raft. C. S. Cameron. No. 1,316,016; Sept. 16; v. 206; p. 305.
- Raft. Life. T. Imazumi. No. 1,326,866; Dec. 30; v. 269; p. 844.
- Raft, Life-saving. F. Zardinoni. No. 1,324,634; Dec. 9; v. 269; p. 312.
- Raft, Reversible pontoon. H. B. Perry and H. W. Chambers. No. 1,306,275; June 10; v. 263; p. 229.
- Rail. J. R. Cunningham. No. 1,307,852; June 24; v. 263; p. 583.
- Rail. T. H. Mathias. No. 1,306,967; June 17; v. 263; p. 389.
- Rail adjusting and gaging device. S. Morano. No. 1,290,288; Jan. 7; v. 258; p. 67.
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- Rail-anchor. T. B. Bowman. No. 1,302,503; May 6; v. 262; p. 5.
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- Rail-anchor. C. F. Clawson. No. 1,293,340; Feb. 4; v. 259; p. 85.
- Rail-anchor. E. C. Danner. No. 1,321,420; Nov. 11; v. 268; p. 265.
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- Rail-anchor. H. G. Gillmor. No. 1,307,490; June 24; v. 263; p. 518.
- Rail-anchor. H. G. Gillmor. No. 1,317,364; Sept. 30; v. 266; p. 643.
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- Rail-anchor. W. M. Mitchell. No. 1,292,845; Jan. 28; v. 258; p. 755.
- Rail-anchor. F. A. Poor. No. 1,292,873; Jan. 28; v. 258; p. 761.
- Rail-anchor. F. L. H. Sims. No. 1,313,747; Aug. 19; v. 265; p. 408.
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- Railway-frog. B. B. Betts. No. 1,313,781; Aug. 19; v. 265; p. 414.
- Railway-frog. B. B. Betts. No. 1,313,782; Aug. 19; v. 265; p. 414.
- Railway-frog guard. T. W. Mayo. No. 1,303,938; May 20; v. 262; p. 338.
- Railway-gate. R. A. Asplund. No. 1,318,309; Oct. 7; v. 267; p. 124.
- Railway-gate. A. Grigas. No. 1,316,710; Sept. 23; v. 266; p. 485.
- Railway-gate. A. C. Louthan. No. 1,297,197; Mar. 11; v. 260; p. 346.
- Railway-gate. J. A. May. No. 1,298,537; Mar. 25; v. 260; p. 687.
- Railway-gate. C. A. Norman. No. 1,326,609; Dec. 30; v. 269; p. 796.
- Railway-gate. W. Wisniewski. No. 1,319,983; Oct. 28; v. 267; p. 552.
- Railway hand-brake. W. H. Sauvage. No. 1,306,635; June 10; v. 263; p. 295.
- Railway-indicator. A. Monard. No. 1,295,560; Feb. 25; v. 259; p. 691.
- Railway-joint. H. D. Coco. No. 1,323,156; Nov. 25; v. 268; p. 692.
- Railway-joint. S. Glodowski. No. 1,320,463; Nov. 4; v. 268; p. 20.
- Railway-joint. B. Tomaszewicz. No. 1,290,411; Jan. 7; v. 258; p. 96.
- Railway-lanterns, Fusee and torpedo holding attachment for. G. Selby. No. 1,305,014; May 27; v. 262; p. 579.
- Railway level and gage, Combined. E. A. Fuller. No. 1,296,381; Mar. 4; v. 260; p. 128.
- Railway magnetic controlling device. A. H. Fox and A. W. Lenderoth. No. 1,298,029; Mar. 25; v. 260; p. 579.
- Railway or other signal apparatus, Foundation and housing for. J. L. Campbell. No. 1,325,829; Dec. 23; v. 269; p. 613.
- Railway or track, Expanded-metal. G. F. Greenwood. No. 1,308,177; July 1; v. 264; p. 31.
- Railway or tramway, Aerial. B. Hall. No. 1,295,485; Feb. 25; v. 259; p. 672.
- Railway-platforms, Safety-gate for. V. M. Casale. No. 1,326,574; Dec. 30; v. 269; p. 790.
- Railway, Pleasure. J. Behr, Jr. (Reissue.) No. 1,474,2; Oct. 28; v. 267; p. 624.
- Railway, Pleasure. P. F. Meyer. No. 1,311,703; July 29; v. 264; p. 811.
- Railway-points, Apparatus for controlling. A. Monard. No. 1,322,929; Nov. 25; v. 268; p. 649.
- Railway-rail anticreeping device. T. H. Alfreds. (Reissue.) No. 1,4,632; Apr. 15; v. 261; p. 602.
- Railway-rail anticreeping device. W. M. Mitchell. No. 1,292,846; Jan. 28; v. 258; p. 755.
- Railway-rail fastener. P. Ruggeri. No. 1,292,079; Jan. 21; v. 258; p. 551.
- Railway-rail-fastening device. H. E. Harris. No. 1,290,185; Jan. 7; v. 258; p. 41.
- Railways, Anticreeping means for. J. F. Lydon. No. 1,318,502; Oct. 14; v. 267; p. 222.
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- Railway-rail joint. J. J. Branagan. No. 1,307,110; June 17; v. 263; p. 415.
- Railway-rails, Method of and means for straightening. G. Langford. No. 1,314,877; Sept. 2; v. 266; p. 74.
- Railway rolling-stock and appurtenance thereto. W. H. Didlake. No. 1,293,727; Feb. 11; v. 259; p. 205.
- Railway-rolling-stock bumpers, Anchoring device for. M. D. Bennett. No. 1,300,108; Apr. 8; v. 261; p. 365.
- Railway-roundhouses and track lay-outs therefor. G. E. Lemmerich. No. 1,325,021; Dec. 16; v. 269; p. 445.
- Railway safety device. B. R. Hammond. No. 1,324,893; Dec. 16; v. 269; p. 421.
- Railway safety device. G. H. Treadgold. No. 1,298,833; Apr. 1; v. 261; p. 50.
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- Railway safety system. F. Dennette. No. 1,308,002; June 24; v. 263; p. 611.
- Railway safety system, Wireless and automatic. H. D. Betz. No. 1,308,925; July 8; v. 264; p. 197.
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- Railway-signal. C. W. Dunham. No. 1,298,679; Apr. 1; v. 261; p. 13.
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- Railway-signal. W. N. Heckethorn. No. 1,320,391; Nov. 4; v. 268; p. 7.
- Railway-signal. L. V. Lewis. No. 1,307,741; June 24; v. 263; p. 563.
- Railway-signal. W. W. Rogers and F. H. Decker. No. 1,305,239; May 27; v. 262; p. 622.
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- Railway-signal crossing system, Electric. C. H. Buhl. No. 1,322,177; Nov. 18; v. 268; p. 457.
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- Railway signal system. R. M. Phinney and H. M. Beck. No. 1,316,738; Sept. 23; v. 266; p. 490.
- Railway signal systems, Contact mechanism for. W. M. McEwen. No. 1,304,338; May 20; v. 262; p. 412.
- Railway signal-tornadoes, Spring holding-clip for. F. Dutcher. No. 1,303,640; May 13; v. 262; p. 245.
- Railway-signals, Safety device to compel proper observance of. J. B. Martin. No. 1,305,391; June 3; v. 263; p. 31.
- Railway signaling. E. R. Coe and R. M. Gilson. No. 1,310,608; July 22; v. 264; p. 575.

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- Railway signaling. L. V. Lewis. No. 1,296,095; Mar. 4; v. 260; p. 63.
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- Range. F. L. Sheppard. No. 1,300,660; Apr. 15; v. 261; p. 509.
- Range adapted to burn heavy oil as fuel. Cooking. J. J. Kermode. No. 1,324,314; Dec. 9; v. 269; p. 250.
- Range-boiler stand. J. Heald. No. 1,321,305; Nov. 11; v. 268; p. 243.
- Range, Combination coal and gas. J. C. Van Riper, Jr., and S. A. Pritschau. No. 1,307,713; June 24; v. 263; p. 557.
- Range, Combination cooking and house water-heating. J. E. Zimmerman. No. 1,294,217; Feb. 11; v. 259; p. 322.
- Range, Combination gas and coal. N. Van Voorhis. No. 1,308,970; July 8; v. 264; p. 205.
- Range, Combined coal and gas. G. W. Clark. No. 1,301,906; Apr. 29; v. 261; p. 827.
- Range, Combined coal and gas. H. C. Maul. No. 1,306,269; June 10; v. 263; p. 228.
- Range, Combined coal and gas. J. S. Van Buren. No. 1,296,237; Mar. 4; v. 260; p. 96.
- Range, Combined coal and gas. O. Siegler. No. 1,307,762; June 24; v. 263; p. 566.
- Range, Cooking. G. M. Coke. No. 1,296,626; Mar. 11; v. 260; p. 218.
- Range, Electric. F. W. Hewitt. No. 1,307,048; June 17; v. 263; p. 404.
- Range-finder. G. Griffith. No. 1,291,848; Jan. 21; v. 258; p. 492.
- Range-finder. P. G. Nutting. No. 1,317,213; Sept. 30; v. 266; p. 614.
- Range-finder adjuster. A. Barr and W. Stroud. No. 1,309,174; July 8; v. 264; p. 243.
- Range-finder, Long-instrumental-base single-observer. A. Barr and W. Stroud. No. 1,320,965; Nov. 4; v. 268; p. 114.
- Range-finder operators, Apparatus for training. W. Makaroff. No. 1,297,967; Mar. 18; v. 260; p. 540.
- Range-finder, Optical. A. A. Michelson. No. 1,313,495; Aug. 19; v. 265; p. 360.
- Range-finder, Panoramic. G. Griffith. No. 1,299,459; Apr. 8; v. 261; p. 220.
- Range-finders, Graduating. F. Twyman. No. 1,306,320; June 10; v. 263; p. 237.
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- Range, Gas. H. D. Schall and R. W. Davenport. No. 1,299,623; Apr. 8; v. 261; p. 257.
- Range-reservoir. C. W. Nye. No. 1,300,456; Apr. 15; v. 261; p. 466.
- Ranges, Damper for combination coal and gas. H. C. Dietrich. No. 1,304,665; May 27; v. 262; p. 514.
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- Rat-poisoning device. G. C. Magness. No. 1,292,624; Jan. 28; v. 258; p. 704.
- Rat-trap. H. E. Heilbrun. No. 1,315,833; Sept. 9; v. 266; p. 257.
- Ratchet-drill. F. H. Pierson. No. 1,315,638; Sept. 9; v. 266; p. 221.
- Ratchet mechanism. G. R. Parker. No. 1,291,721; Jan. 21; v. 258; p. 460.
- Ratchet mechanism. F. T. Reese. No. 1,318,462; Oct. 14; v. 267; p. 214.
- Ratchet, Safety. D. A. Decker. No. 1,325,464; Dec. 16; v. 269; p. 527.
- Ratchet-wrench. F. Esterhay. No. 1,292,281; Jan. 21; v. 258; p. 599.
- Ratchet-wrench. D. G. Kennedy. No. 1,314,964; Sept. 2; v. 266; p. 90.
- Ratchet-wrench. J. Lapointe. No. 1,322,586; Nov. 25; v. 268; p. 586.
- Ratchet-wrench. B. H. Skelly. No. 1,318,811; Oct. 14; v. 267; p. 280.
- Ratio, Alleron of variable-aspect. A. F. Zahm. No. 1,326,010; Dec. 23; v. 269; p. 646.
- Ratio indicating and recording meter. W. J. Crowell, Jr. No. 1,308,626; July 1; v. 264; p. 113.
- Razor. H. Besançon. No. 1,326,635; Dec. 30; v. 269; p. 801.
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- Razor. C. H. Hyman and J. F. Moeller. No. 1,324,010; Dec. 2; v. 269; p. 148.

- Razor. I. Mori. No. 1,310,086; July 15; v. 264; p. 448.  
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- Receptacle, Normally closed. C. H. Kors. No. 1,295,765; Feb. 25; v. 259; p. 737.
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- Receptacle, Sealed. A. S. Nico. No. 1,310,247; July 15; v. 264; p. 478.
- Receptacle, Sealed. A. S. Nico. No. 1,310,288; July 15; v. 264; p. 485.
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- Receptacle-support. T. J. Bickel. No. 1,292,421; Jan. 28; v. 258; p. 643.
- Receptacle, Tank and like. J. H. Humphries. No. 1,307,584; June 24; v. 263; p. 534.
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- Receptacles, Applying caps to. E. C. Phillips. No. 1,316,253; Sept. 16; v. 266; p. 349.
- Receptacles, Card or ticket holder for. O. S. Davis. No. 1,304,031; May 20; v. 262; p. 355.
- Receptacles, Device for lining tins or other. J. S. Clinton. No. 1,308,540; July 1; v. 264; p. 97.
- Receptacles, Filler-tube and closure for. L. Kessler. No. 1,312,695; Aug. 12; v. 265; p. 189.
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- Reciprocating mechanism. J. G. Robinson. No. 1,325,657; Dec. 23; v. 269; p. 581.
- Reclaiming and conveying apparatus. F. L. Stuart. No. 1,312,594; Aug. 12; v. 265; p. 171.
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- Reclaiming materials, System and apparatus for. F. L. Stuart. No. 1,300,672; Apr. 15; v. 261; p. 511.
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- Reclining-chair. F. Lenard. No. 1,320,014; Oct. 28; v. 267; p. 558.
- Reclining-chair. A. J. Phillips. No. 1,302,212; Apr. 29; v. 261; p. 881.
- Reclining-chair. A. Russo. No. 1,310,581; July 22; v. 264; p. 570.
- Reclining frame. J. L. Connor. No. 1,314,857; Sept. 2; v. 266; p. 71.
- Reclining-seat. J. W. Myers. No. 1,301,488; Apr. 22; v. 261; p. 716.
- Recoil-pad. F. D. Hawkins. No. 1,325,152; Dec. 16; v. 269; p. 470.
- Record blank, Land-title. C. S. Kent. No. 1,317,925; Oct. 7; v. 267; p. 50.
- Record-card holder, Mink. H. R. Leonard. No. 1,317,202; Sept. 30; v. 266; p. 612.
- Record-cleaner. W. L. Denio. No. 1,296,779; Mar. 11; v. 260; p. 253.
- Record-holder. E. A. Banschbach. No. 1,306,737; June 17; v. 263; p. 346.
- Record-holder. E. J. Hahl. No. 1,303,299; May 13; v. 262; p. 183.
- Record-holder, Ejecting. B. W. King. No. 1,291,924; Jan. 21; v. 258; p. 512.
- Record-recording device. H. A. D. Baer. No. 1,322,515; Nov. 25; v. 268; p. 572.
- Records, Cabinet for disk. F. Coss. No. 1,315,213; Sept. 9; v. 266; p. 146.
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- Recorder. G. S. Brown. No. 1,295,110; Feb. 25; v. 259; p. 586.
- Recorder. F. J. Sprague. No. 1,322,148; Nov. 18; v. 268; p. 451.
- Recorder, Road-crossing. R. M. Baldwin. No. 1,304,727; May 27; v. 262; p. 525.
- Recording and promoting transactions, Apparatus for. A. W. Haigh. No. 1,290,739; Jan. 7; v. 258; p. 176.
- Recording apparatus. G. F. C. Bauer. No. 1,315,201; Sept. 9; v. 266; p. 143.
- Recording apparatus. H. Y. Norwood and F. W. Stalker. No. 1,323,374; Dec. 2; v. 269; p. 29.
- Recording apparatus. G. D. Pogue. No. 1,300,191; Apr. 8; v. 261; p. 383.
- Recording attachment. F. C. Hinckley. No. 1,291,515; Jan. 14; v. 258; p. 381.
- Recording device. H. W. Alexander. No. 1,291,351; Jan. 14; v. 258; p. 342.
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- Recording device. J. F. O'Connor. No. 1,290,318; Jan. 7; v. 258; p. 74.
- Recording device. R. H. Rogers. No. 1,306,631; June 10; v. 263; p. 294.
- Recording instrument. P. M. Anderson. No. 1,314,179; Aug. 26; v. 265; p. 523.
- Recording instrument. C. F. Chapman. No. 1,299,427; Apr. 8; v. 261; p. 212.
- Recording-lock. T. A. Keeper. No. 1,309,437; July 8; v. 264; p. 292.
- Recording-machine. A. T. Brown. No. 1,325,138; Dec. 16; v. 269; p. 468.
- Recording-machine. J. J. Diehl. No. 1,323,846; Dec. 2; v. 269; p. 117.
- Recording-machine. H. Landsiedel. No. 1,321,648; Nov. 11; v. 268; p. 307.
- Recording mechanism. M. Benon. No. 1,297,637; Mar. 18; v. 260; p. 468.
- Recording mechanism. J. C. Warren. No. 1,300,525; Apr. 15; v. 261; p. 481.
- Recording-meter. P. Lanham. No. 1,326,747; Dec. 30; v. 269; p. 822.
- Recording system and apparatus. R. M. Hopkins. No. 1,308,772; July 8; v. 264; p. 168.
- Recording system and apparatus. R. M. Hopkins. No. 1,309,285; July 8; v. 264; p. 264.
- Recording system and apparatus. R. M. Hopkins. No. 1,309,287; July 8; vol. 264; p. 264.
- Recording system and apparatus. R. M. Hopkins. No. 1,309,413; July 8; v. 264; p. 287.
- Rectifier. R. P. Jackson. No. 1,298,726; Apr. 1; v. 261; p. 24.
- Rectifier. W. B. Lucas. No. 1,301,581; Apr. 22; v. 261; p. 732.
- Rectifier. P. M. Rainey. No. 1,307,517; June 24; v. 263; p. 522.
- Rectifier, High-tension rotary. R. H. Wappler. No. 1,320,106; Oct. 28; v. 267; p. 575.
- Rectifier, Mechanical. Q. A. Brackett. No. 1,311,489; July 29; v. 264; p. 772.
- Rectifier system. Q. A. Brackett. No. 1,321,505; Nov. 11; v. 267; p. 280.

- Rectifier system. D. E. Carpenter. No. 1,321,866; Nov. 18; v. 268; p. 403.
- Rectifier system. F. W. Meyer. No. 1,291,066; Jan. 14; v. 258; p. 278.
- Rectifier, Vibrating. Q. A. Brackett. No. 1,311,490; July 29; v. 264; p. 772.
- Rectifier, Vibrating. R. P. Jackson. No. 1,298,727; Apr. 1; v. 261; p. 25.
- Rectifying process and apparatus. E. A. Barbet. No. 1,292,676; Jan. 28; v. 258; p. 715.
- Reducing-machine. H. M. Plaisted. No. 1,306,772; June 17; v. 263; p. 353.
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- Reducing-mill. C. Byrd. No. 1,298,289; Mar. 25; v. 260; p. 634.
- Reducing-mill. E. B. Campbell. No. 1,315,281; Sept. 9; v. 266; p. 158.
- Reducing-mill. H. M. Plaisted. No. 1,322,339; Nov. 18; v. 268; p. 487.
- Reduction-furnace. T. F. Baily and F. T. Cope. No. 1,291,716; Jan. 21; v. 258; p. 459.
- Reduction-furnace, Continuous. W. D. Richardson. No. 1,303,114; May 6; v. 262; p. 121.
- Reduction process. S. Westberg. No. 1,310,724; July 22; v. 264; p. 596.
- Reed. W. G. Lerch. No. 1,313,705; Aug. 19; v. 265; p. 400.
- Reed and heddle-frame, Combined. J. A. Wilson. No. 1,309,674; July 15; v. 264; p. 374.
- Reel. *See*—
- Boiling-reel. Knockdown reel.
  - Chalk-line reel. Locomotive gathering-reel.
  - Continuous-contact reel. Picture-film reel.
  - Eraser-reel. Scrap-winding reel.
  - Film-reel. Take-up reel.
  - Fishing-reel. Tennis-net reel.
  - Harvester-reel. Winding-reel.
  - Hose-reel. Wire-reel.
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- Reel. W. D. Lutz. No. 1,293,488; Feb. 4; v. 259; p. 119.
- Reel. J. L. Marriott. No. 1,297,380; Mar. 18; v. 260; p. 415.
- Reel. T. L. McNeely. No. 1,323,602; Dec. 2; v. 269; p. 71.
- Reel. L. E. Purnell. No. 1,314,607; Sept. 2; v. 266; p. 25.
- Reel. H. V. Rau. No. 1,324,172; Dec. 9; v. 269; p. 223.
- Reel. L. M. Steen. No. 1,301,189; Apr. 22; v. 261; p. 658.
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- Reel construction. W. I. Tuttle. No. 1,307,526; June 24; v. 263; p. 524.
- Reel-protector. O. E. Stultz. No. 1,297,606; Mar. 18; v. 260; p. 462.
- Reel-switch mechanism for rod-mills. J. L. and S. A. Smith. No. 1,295,224; Feb. 25; v. 259; p. 612.
- Reels, Slat for harvester. W. B. Staton. No. 1,309,342; July 8; v. 264; p. 274.
- Reeling and unreeling device. F. W. Elsinger and O. Schmidt. No. 1,311,956; Aug. 5; v. 265; p. 19.
- Reeling device. R. F. and J. J. Chegwidden. No. 1,322,407; Nov. 18; v. 268; p. 501.
- Reeling-machine. D. Neal. No. 1,315,526; Sept. 9; v. 266; p. 202.
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- Refilling of ditches or drains. Apparatus for. A. Kjölstad. No. 1,312,852; Aug. 12; v. 265; p. 220.
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- Reflector. W. A. Heinrich. No. 1,315,494; Sept. 9; v. 266; p. 197.
- Reflector. J. O. Helliwell. No. 1,318,205; Oct. 7; v. 267; p. 104.
- Reflector, Multiple-passage. R. D. Sauls. No. 1,290,363; Jan. 7; v. 258; p. 84.
- Reflector-support. J. D. Cumming. No. 1,295,701; Feb. 25; v. 259; p. 723.
- Reflector, Vehicle. F. Schmid and F. E. Thomas. No. 1,318,603; Oct. 14; v. 267; p. 241.
- Reflector, Visual tail-light. J. C. Martin. No. 1,301,150; Apr. 22; v. 261; p. 650.
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- Refractory article. F. J. Tone. No. 1,303,993; May 20; v. 262; p. 348.
- Refractory composition. E. T. Ferngren. No. 1,324,546; Dec. 9; v. 269; p. 296.
- Refractory material and making same. B. Enright. No. 1,319,056; Oct. 21; v. 267; p. 353.
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- Refractory materials. Making ductile bodies of. P. Orance. No. 1,297,000; Mar. 11; v. 260; p. 304.
- Refrigerant and making same. A. G. Crawford. No. 1,325,665; Dec. 23; v. 269; p. 583.
- Refrigerant and making same. A. G. Crawford. No. 1,325,667; Dec. 23; v. 269; p. 583.
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- Register. J. Desjardins. No. 1,325,438; Dec. 16; v. 269; p. 523.
- Register. H. J. P. Hampton. No. 1,301,691; Apr. 22; v. 261; p. 753.
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- Registering mechanism. W. Arthur. No. 1,319,453; Oct. 21; v. 267; p. 429.
- Registering system. H. Hovland. No. 1,292,894; Jan. 21; v. 258; p. 504.
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| Cultivator-fender regulator.   | Outflow-regulator.             |
| Current-regulator.             | Pressure-regulator.            |
| Current-controlling regulator. | Pressure-fluid regulator.      |
| Cutting-fluid regulator.       | Speed-regulator.               |
| Damper-regulator.              | Speed-generator regulator.     |
| Draft-regulator.               | Spring-regulator.              |
| Electric regulator.            | Tank-regulator.                |
| Electrical regulator.          | Temperature-regulator.         |
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| Fluid-regulator.               | Time-valve-pressure regulator. |
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| Furnace draft-regulator.       | Tooth-regulator.               |
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- Regulator. P. O. Kellholtz. No. 1,321,054; Nov. 4; v. 268; p. 131.
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- Reinforcement and fastening. A. McPhail. No. 1,322,802; Nov. 25; v. 268; p. 626.
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- Reinforcing-bars, Means for spacing. W. E. White. No. 1,306,984; June 17; v. 263; p. 392.
- Reinforcing retorts, Method of and apparatus for. F. W. Wood. No. 1,294,743; Feb. 18; v. 259; p. 478.
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- Relay. R. M. Hopkins. No. 1,311,648; July 29; v. 264; p. 801.
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- Relay. W. S. Levin. No. 1,305,381; June 3; v. 263; p. 28.
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- Relay. W. H. Smith. No. 1,312,757; Aug. 12; v. 265; p. 202.
- Relay, Alternating-current. F. Nolte. No. 1,319,723; Oct. 28; v. 267; p. 503.
- Relay and motor for use therein, Electric. J. S. Holliday. No. 1,310,622; July 22; v. 264; p. 578.
- Relay and system for operating same, Quick-action. E. P. Jessop. No. 1,323,286; Dec. 2; v. 269; p. 12.
- Relay, Definite-time-limit. R. J. C. Wood and G. E. Arm strong. No. 1,314,483; Aug. 26; v. 265; p. 582.
- Relay device. A. J. Hall. No. 1,302,055; Apr. 29; v. 261; p. 852.
- Relay, Electric. E. Lehr. No. 1,326,355; Dec. 30; v. 269; p. 747.
- Relay, Inverse time-limit. L. T. Robinson and C. V. Hardy. No. 1,294,305; Feb. 11; v. 259; p. 341.
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- Relay, Protective. L. N. Crichton. No. 1,292,585; Jan. 28; v. 258; p. 694.
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- Releasing mechanism. S. Seckendorf. No. 1,297,019; Mar. 11; v. 260; p. 308.
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- Remagnetizing device. J. L. Porter. No. 1,293,912; Feb. 11; v. 259; p. 248.

- Repair-bench. W. M. Porter and E. H. Sprague. No. 1,313,604; Aug. 19; v. 265; p. 381.
- Repeaters, Transmission-controlling means for four-wire. J. F. Toomey and C. S. Demarest. No. 1,318,937; Oct. 14; v. 267; p. 305.
- Replanter. A. Blasing. No. 1,315,276; Sept. 9; v. 266; p. 157.
- Replanter. A. J. Reid. No. 1,324,618; Dec. 9; v. 269; p. 309.
- Reproducer. Z. Eckelbarger. No. 1,311,057; July 22; v. 264; p. 658.
- Reproducer. C. F. A. Sturts. No. 1,291,238; Jan. 14; v. 258; p. 317.
- Reproducer. J. E. Wright. No. 1,292,944; Jan. 28; v. 258; p. 778.
- Reproducing the motions of the upper part of vessels in motion, Apparatus for. W. R. Gilbert. No. 1,313,685; Aug. 19; v. 265; p. 396.
- Retrailer. H. A. W. Smith. No. 1,305,625; June 3; v. 263; p. 76.
- Retrailer. H. A. W. Smith. No. 1,305,626; June 3; v. 263; p. 77.
- Retrailer. H. A. W. Smith. No. 1,325,809; Dec. 23; v. 269; p. 609.
- Retrailer-clamp. H. A. W. Smith. No. 1,325,808; Dec. 23; v. 269; p. 609.
- Retrailing device. N. E. Murphy. No. 1,303,942; May 20; v. 262; p. 339.
- Reservoir-wall, Non-metallic. A. Macbeth. No. 1,325,448; Dec. 16; v. 269; p. 524.
- Resharpener files. S. Whyte. No. 1,314,449; Aug. 26; v. 265; p. 576.
- Resharpener files. S. White. No. 1,314,450; Aug. 26; v. 265; p. 576.
- Resilient driving connection. G. M. Eaton. No. 1,321,511; Nov. 11; v. 268; p. 281.
- Resilient driving connection. G. M. Eaton. No. 1,321,512; Nov. 11; v. 268; p. 281.
- Resilient element. A. H. Ackerman. No. 1,324,440; Dec. 9; v. 269; p. 275.
- Resilient mounting for machinery. C. D. Knowlton. No. 1,300,759; July 15; v. 264; p. 389.
- Resilient vehicle-wheel. H. H. Schramm. No. 1,319,726; Oct. 28; v. 267; p. 503.
- Resilient wheel. D. S. Beach. No. 1,298,438; Mar. 25; v. 260; p. 666.
- Resilient wheel. B. H. Berry. No. 1,299,898; Apr. 8; v. 261; p. 320.
- Resilient wheel. H. Bohne. No. 1,318,259; Oct. 7; v. 267; p. 115.
- Resilient wheel. O. A. Boyer. No. 1,291,744; Jan. 21; v. 258; p. 466.
- Resilient wheel. F. M. Buschor. No. 1,324,726; Dec. 9; v. 269; p. 329.
- Resilient wheel. D. Cameron. No. 1,297,790; Mar. 18; v. 260; p. 503.
- Resilient wheel. D. Cameron. No. 1,297,791; Mar. 18; v. 260; p. 503.
- Resilient wheel. W. G. Chipley. No. 1,315,091; Sept. 2; v. 266; p. 113.
- Resilient wheel. G. W. Conway. No. 1,296,925; Mar. 11; v. 260; p. 287.
- Resilient wheel. J. T. Cowan. No. 1,290,519; Jan. 7; v. 258; p. 122.
- Resilient wheel. B. L. Dewey. No. 1,306,176; June 10; v. 263; p. 208.
- Resilient wheel. F. Dickson. No. 1,304,164; May 20; v. 262; p. 379.
- Resilient wheel. P. M. Griggs. No. 1,315,300; Sept. 9; v. 266; p. 161.
- Resilient wheel. S. Grossman. No. 1,314,643; Sept. 2; v. 266; p. 32.
- Resilient wheel. L. Gudgell. No. 1,298,493; Mar. 25; v. 260; p. 678.
- Resilient wheel. R. R. Hatton. No. 1,315,491; Sept. 9; v. 266; p. 196.
- Resilient wheel. O. O. Hobson. No. 1,323,235; Nov. 25; v. 268; p. 709.
- Resilient wheel. A. Izen. No. 1,318,496; Oct. 14; v. 267; p. 221.
- Resilient wheel. A. Jutila. No. 1,301,570; Apr. 22; v. 261; p. 730.
- Resilient wheel. E. I. Kimmey. No. 1,314,337; Aug. 26; v. 265; p. 554.
- Resilient wheel. J. A. Kolby, L. P. Larson, and C. P. Nielsen. No. 1,302,177; Apr. 29; v. 261; p. 877.
- Resilient wheel. J. Kuehl. No. 1,293,808; Feb. 11; v. 259; p. 225.
- Resilient wheel. E. G. Looser. No. 1,318,393; Oct. 14; v. 267; p. 201.
- Resilient wheel. T. L. McKenna. No. 1,313,707; Aug. 19; v. 265; p. 400.
- Resilient wheel. C. A. Mendenhall. No. 1,295,556; Feb. 25; v. 259; p. 690.
- Resilient wheel. C. A. O'Neill. No. 1,321,545; Nov. 11; v. 268; p. 288.
- Resilient wheel. J. F. Oldham. No. 1,309,540; July 8; v. 264; p. 311.
- Resilient wheel. A. Paroli. No. 1,291,627; Jan. 14; v. 258; p. 408.
- Resilient wheel. M. Philipp. No. 1,307,212; June 17; v. 263; p. 433.
- Resilient wheel. H. C. Peters. No. 1,317,097; Sept. 23; v. 266; p. 556.
- Resilient wheel. R. C. Racer. No. 1,302,215; Apr. 29; v. 261; p. 885.
- Resilient wheel. W. Rokosz. No. 1,311,999; Aug. 5; v. 265; p. 27.
- Resilient wheel. I. Rosenfield. No. 1,317,729; Oct. 7; v. 267; p. 13.
- Resilient wheel. R. E. Savery. No. 1,295,214; Feb. 25; v. 259; p. 610.
- Resilient wheel. J. Stuart. No. 1,311,024; July 22; v. 264; p. 652.
- Resilient wheel. C. Van Noort and F. Visser. No. 1,299,876; Apr. 8; v. 261; p. 315.
- Resin. M. Darrin. No. 1,326,579; Dec. 30; v. 269; p. 791.
- Resin and manufacturing same from crude solvent naphtha. M. Darrin. No. 1,297,323; Mar. 18; v. 260; p. 405.
- Resin from natural resin of conifers and the like, Producing purified. J. R. Köhler. No. 1,316,842; Sept. 23; v. 266; p. 508.
- Resin-recovering process. R. Simpson. No. 1,308,768; July 8; v. 264; p. 168.
- Resin paste and making same, Oleo-. F. M. Boyles. No. 1,324,538; Dec. 9; v. 269; p. 294.
- Resins, Hardening synthetic. R. P. Jackson. No. 1,323,284; Dec. 2; v. 269; p. 11.
- Resins, Process of and apparatus for distilling crude pine-. R. Dunwoody. No. 1,291,800; Jan. 21; v. 258; p. 480.
- Resinous compositions, Preparing. B. J. Gudge. No. 1,299,706; Apr. 8; v. 261; p. 276.
- Resinous condensation product and making same. H. V. Dunham. No. 1,324,649; Dec. 9; v. 269; p. 315.
- Resinous products, Manufacture of. C. N. Forrest and J. V. Meigs. No. 1,305,790; June 3; v. 263; p. 106.
- Resistance. A. J. Horton. No. 1,293,440; Feb. 4; v. 259; p. 108.
- Resistance against corrosion, Articles which require high. B. Strauss. No. 1,316,817; Sept. 23; v. 266; p. 504.
- Resistance-coils, Holder for. B. E. Grisham. No. 1,308,946; July 8; v. 264; p. 200.
- Resistance element. T. W. Case. No. 1,298,627; Mar. 25; v. 260; p. 705.
- Resistance-grids, Constructing. C. E. Ogden. No. 1,316,321; Sept. 16; v. 266; p. 362.
- Resistance material. G. T. Southgate. No. 1,297,744; Mar. 18; v. 260; p. 493.
- Resistance unit. G. W. Camp. No. 1,320,200; Oct. 28; v. 267; p. 591.
- Resistance unit. L. P. Hynes. No. 1,297,472; Mar. 18; v. 260; p. 433.
- Resistance unit. R. J. Parsons. No. 1,315,791; Sept. 9; v. 266; p. 249.
- Resistance unit. A. Simon. No. 1,303,404; May 13; v. 262; p. 202.
- Resistance unit, Variable-. A. A. Ziegler. No. 1,321,873; Nov. 18; v. 268; p. 401.
- Resistance, Variable. T. W. Case. No. 1,298,457; Mar. 25; v. 260; p. 669.
- Resistance, Variable. T. W. Case. No. 1,301,227; Apr. 22; v. 261; p. 666.
- Resistance, Variable. T. W. Case. No. 1,309,181; July 8; v. 264; p. 244.
- Resonant circuit, Double. C. L. Fortescue. No. 1,304,294; May 20; v. 262; p. 404.
- Resorcinol, Making. N. Goodman and B. Grubman. No. 1,314,138; Aug. 26; v. 265; p. 516.
- Respiration-controlling apparatus. E. V. Galiardo. No. 1,296,946; Mar. 11; v. 260; p. 292.
- Respiration-indicator. R. de Bernyz. No. 1,299,306; Apr. 1; v. 261; p. 157.
- Respirator. E. I. McKesson. No. 1,320,900; Nov. 4; v. 268; p. 102.
- Respirator. A. Patus. No. 1,312,200; Aug. 5; v. 265; p. 65.
- Respirator. N. Schwartz. No. 1,292,096; Jan. 21; v. 258; p. 555.
- Respirator. W. Soderling. No. 1,292,115; Jan. 21; v. 258; p. 560.
- Respirator. W. Soderling. No. 1,317,947; Oct. 7; v. 267; p. 54.
- Respirator-mask. N. Schwartz. No. 1,292,095; Jan. 21; v. 258; p. 555.
- Respiratory apparatus. J. M. Ganzer. No. 1,310,825; July 22; v. 264; p. 616.
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- Retainer. F. Fulgora. No. 1,315,768; Sept. 9; v. 266; p. 244.
- Retarder. E. E. Roll. No. 1,308,644; July 1; v. 264; p. 116.
- Retort, Continuous-action. H. P. Bassett. No. 1,314,849; Sept. 2; v. 266; p. 70.
- Retort-doors, Means for securing. N. Troyer. No. 1,321,341; Nov. 11; v. 268; p. 249.
- Retort-waste, Process and machine for reclaiming. O. Gerlach and C. R. Lihme. No. 1,312,173; Aug. 5; v. 265; p. 60.
- Retorts used in production of spelter, Handling of. H. W. Brahe. No. 1,323,575; Dec. 2; v. 269; p. 66.



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- Retouching-frame. W. P. Russell. No. 1,296,432; Mar. 4; v. 260; p. 138.
- Retouching-machine. G. Charlton. No. 1,322,541; Nov. 25; v. 268; p. 577.
- Retractor. H. M. Brix. No. 1,311,313; July 29; v. 264; p. 739.
- Retread-mold, Full-circle collapsible. P. M. Stephan. No. 1,307,793; June 24; v. 263; p. 573.
- Retreading apparatus. W. H. Hermsdorf. No. 1,318,383; Oct. 14; v. 267; p. 199.
- Retreading-mold. J. Bjurstrom. No. 1,318,530; Oct. 14; v. 267; p. 227.
- Return-trap. J. W. Lytton. No. 1,316,843; Sept. 23; v. 266; p. 508.
- Reversible coupling. J. H. Macalpine. No. 1,293,647; Feb. 4; v. 259; p. 156.
- Reversible four-cycle engine. J. Keister. No. 1,315,844; Sept. 9; v. 266; p. 259.
- Reversible trailer and steering mechanism. V. E. Peterson. No. 1,303,591; May 13; v. 262; p. 230.
- Reversing mechanism. F. W. A. Henrich. No. 1,316,093; Sept. 16; v. 266; p. 320.
- Revoluble engine. A. C. Fischer. No. 1,301,547; Apr. 22; v. 261; p. 726.
- Revolver-clip. M. M. Glasser. No. 1,326,721; Dec. 30; v. 269; p. 817.
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- Revolving and folding table. M. H. Houston. No. 1,306,666; June 10; v. 263; p. 301.
- Revolving rack. N. J. Miano. No. 1,294,511; Feb. 18; v. 259; p. 425.
- Rewelweighing-machine. G. W. Gwinn. No. 1,315,720; Sept. 9; v. 266; p. 236.
- Rheostat. E. M. Bentley. No. 1,313,853; Aug. 19; v. 265; p. 428.
- Rheostat. C. A. Cadwell. No. 1,290,075; Jan. 7; v. 258; p. 15.
- Rheostat. H. W. Christian. No. 1,292,403; Jan. 21; v. 258; p. 627.
- Rheostat. B. F. Gardner. No. 1,310,696; July 22; v. 264; p. 591.
- Rheostat. L. Kehler. No. 1,321,104; Nov. 11; v. 268; p. 204.
- Rheostat. E. Podsenick. No. 1,300,483; Apr. 15; v. 261; p. 472.
- Rheostat. F. A. Rojas. No. 1,315,579; Sept. 9; v. 266; p. 211.
- Rheostat. H. D. Stone. No. 1,307,643; June 24; v. 263; p. 544.
- Rheostat, Liquid. H. C. Holthoff. No. 1,309,802; July 15; v. 264; p. 397.
- Rheostat, Rotary. R. W. Ebeling. No. 1,323,176; Nov. 25; v. 268; p. 697.
- Rheostat, Speed-controlled. H. A. Burgess. No. 1,305,961; June 3; v. 263; p. 139.
- Ribbon cleaner and drier. E. De Gay. No. 1,304,275; May 20; v. 262; p. 400.
- Ribbon-holder, Auxiliary. W. A. De Long, Jr. No. 1,305,886; June 3; v. 263; p. 124.
- Ribbon-roll attachment. W. A. Johannsen. No. 1,300,974; Apr. 15; v. 261; p. 576.
- Ribbon, Type-writing. J. A. L. Möller. No. 1,320,634; Nov. 4; v. 268; p. 51.
- Ribbons, bracelets, belts, and similar articles, Safety-lock for. I. Marmorstein and H. Stone. No. 1,303,704; May 13; v. 262; p. 257.
- Ribbons, Gumming edges of. J. H. Hoffman. No. 1,300,394; Apr. 15; v. 261; p. 453.
- Ribbons, Means for forming metal. E. E. Johnson. No. 1,315,022; Sept. 2; v. 266; p. 100.
- Rice-hulling machine. W. O. Peavey. No. 1,323,906; Dec. 2; v. 269; p. 129.
- Rice-straw for recovery of its values, Treatment of. M. W. Marsden. No. 1,313,403; Aug. 19; v. 265; p. 343.
- Riddle. G. C. Batten. No. 1,306,325; June 10; v. 263; p. 238.
- Ridge-covering. F. C. Overbury. No. 1,295,361; Feb. 25; v. 259; p. 643.
- Ridge-roll starter. J. D. Tennison. No. 1,290,802; Jan. 7; v. 258; p. 190.
- Rifle. V. C. Brannon. No. 1,291,674; Jan. 14; v. 258; p. 420.
- Rifle. G. L. Henderson. No. 1,322,438; Nov. 18; v. 268; p. 506.
- Rifle. R. Mendoza. No. 1,294,295; Feb. 11; v. 259; p. 339.
- Rifle attachment. E. Duerr. No. 1,290,937; Jan. 14; v. 258; p. 248.
- Rifle, Automatic. W. H. Pritchett. No. 1,297,241; Mar. 11; v. 260; p. 356.
- Rifle, Automatic machine. J. M. Browning. No. 1,293,022; Feb. 4; v. 259; p. 12.
- Rifle-barrel. C. W. Linscott. No. 1,299,972; Apr. 8; v. 261; p. 335.
- Rifle-bolt. T. O. Mudd. No. 1,305,830; June 3; v. 263; p. 113.
- Rifle, Box-magazine bolt-action. T. C. Johnson. No. 1,323,064; Nov. 25; v. 268; p. 675.
- Rifle-sight, Rear. H. Riser. No. 1,293,551; Feb. 4; v. 259; p. 134.
- Rifle-stock. J. A. Davidson. No. 1,315,215; Sept. 9; v. 266; p. 146.
- Rifle-target. C. Reid. No. 1,304,602; May 27; v. 262; p. 502.
- Rifle wire-cutting attachment. J. A. Erikson. No. 1,300,940; Apr. 15; v. 261; p. 568.
- Rifles, Cartridge-check for magazine. A. Fernandez. No. 1,318,200; Oct. 7; v. 267; p. 103.
- Rifles or other weapons, Apparatus for actuating the bolts of. A. Bellard. No. 1,300,688; Apr. 15; v. 261; p. 514.
- Rifles, Rear-sight holder for military. L. O. Wright. No. 1,291,692; Jan. 14; v. 258; p. 423.
- Rifles, Receiver-cleaning brush for. H. L. Craig. No. 1,291,770; Jan. 21; v. 258; p. 473.
- Rifling-machine. C. G. Allgrunn. No. 1,311,584; July 29; v. 264; p. 789.
- Rifling-machine, rifling tool or head. W. C. Andrews. No. 1,294,750; Feb. 18; v. 259; p. 481.
- Rifling-tool. H. L. White. No. 1,304,429; May 20; v. 262; p. 431.
- Rifling-tool and using same. C. G. Allgrunn. No. 1,311,107; July 22; v. 264; p. 667.
- Rigging-clamp, Adjustable. C. Brown. No. 1,319,562; Oct. 21; v. 267; p. 449.
- Rigging-hook, Safety. H. A. Sinclair. No. 1,300,231; Apr. 8; v. 261; p. 392.
- Rim. L. G. Roller. No. 1,317,105; Sept. 23; v. 266; p. 558.
- Rim and complementary wheel, Demountable. E. K. Baker. No. 1,310,048; July 15; v. 264; p. 442.
- Rim and rims, Holder for spare demountable. J. Mulcahy. No. 1,320,084; Oct. 28; v. 267; p. 571.
- Rim and securing means therefor. F. A. Lane. No. 1,292,488; Jan. 28; v. 258; p. 669.
- Rim and tire. W. R. Miller. No. 1,307,872; June 24; v. 263; p. 586.
- Rim and tire, Auxiliary. J. V. Loeffler. No. 1,296,539; Mar. 4; v. 260; p. 162.
- Rim-applying machine. J. E. Jones. No. 1,316,042; Sept. 16; v. 266; p. 310.
- Rim-breaker. W. F. Wright. No. 1,315,068; Sept. 2; v. 266; p. 109.
- Rim breaker and extender. H. Tannehill. No. 1,301,884; Apr. 29; v. 261; p. 823.
- Rim, Collapsible. C. B. Deeds. No. 1,322,096; Nov. 18; v. 268; p. 441.
- Rim, Collapsible. W. C. King. No. 1,304,488; May 20; v. 262; p. 442.
- Rim, Collapsible demountable. E. H. Wulff. No. 1,292,945; Jan. 28; v. 258; p. 778.
- Rim-collapsing device. E. Toole. No. 1,291,265; Jan. 14; v. 258; p. 323.
- Rim contractor and expander. C. Bullivant. No. 1,306,997; June 17; v. 263; p. 394.
- Rim, Demountable. C. E. F. Ahlin. No. 1,301,352; Apr. 22; v. 261; p. 691.
- Rim, Demountable. E. K. Baker. No. 1,314,932; Sept. 2; v. 266; p. 83.
- Rim, Demountable. E. K. Baker. No. 1,314,934; Sept. 2; v. 266; p. 84.
- Rim, Demountable. E. K. Baker. No. 1,314,936; Sept. 2; v. 266; p. 84.
- Rim, Demountable. W. W. Bowman. No. 1,301,033; Apr. 15; v. 261; p. 589.
- Rim, Demountable. J. L. Bredar. No. 1,318,534; Oct. 14; v. 267; p. 228.
- Rim, Demountable. H. Bretscher. No. 1,290,889; Jan. 14; v. 258; p. 236.
- Rim, Demountable. H. Bretscher. (Reissue.) No. 1,477,070; Dec. 16; v. 269; p. 535.
- Rim, Demountable. G. J. Clayton. No. 1,321,888; Nov. 18; v. 268; p. 403.
- Rim, Demountable. W. E. Copithorn. No. 1,325,714; Dec. 23; v. 269; p. 592.
- Rim, Demountable. H. J. Foster. No. 1,290,450; Apr. 8; v. 261; p. 218.
- Rim, Demountable. H. J. Foster. No. 1,290,451; Apr. 8; v. 261; p. 218.
- Rim, Demountable. J. N. Foster. No. 1,306,957; June 17; v. 263; p. 387.
- Rim, Demountable. B. F. Gowdey. No. 1,318,274; Oct. 7; v. 267; p. 118.
- Rim, Demountable. H. D. Hamilton and J. Goodman. No. 1,302,156; Apr. 29; v. 261; p. 874.
- Rim, Demountable. A. B. Henson. No. 1,301,695; Apr. 22; v. 261; p. 755.
- Rim, Demountable. C. St. Hilaire. No. 1,290,556; Jan. 7; v. 258; p. 131.
- Rim, Demountable. J. M. Loveless. No. 1,318,295; Oct. 7; v. 267; p. 122.
- Rim, Demountable. L. H. Perlman. No. 1,326,090; Dec. 23; v. 269; p. 661.
- Rim, Demountable. C. L. Peters and A. L. Johnson. No. 1,326,418; Dec. 30; v. 269; p. 759.
- Rim, Demountable. A. L. Putnam. No. 1,295,792; Feb. 25; v. 259; p. 743.
- Rim, Demountable collapsible. C. A. Tripp. No. 1,300,052; Apr. 8; v. 261; p. 353.
- Rim, Detachable. F. W. Baker and J. S. Foley. No. 1,290,873; Jan. 14; v. 258; p. 232.

- Rim expanding and contracting tool. C. B. Howell. No. 1,317,136; Sept. 23; v. 266; p. 564.
- Rim-expanding tool. Demountable. C. T. Lamb. No. 1,300,741; Apr. 15; v. 261; p. 526.
- Rim fastener. Demountable. E. J. Bergman. No. 1,308,616; July 1; v. 264; p. 111.
- Rim holder. Demountable. J. P. Jacobs. No. 1,321,921; Nov. 18; v. 268; p. 409.
- Rim-lock. W. I. Hopkins. No. 1,324,252; Dec. 9; v. 269; p. 238.
- Rim lock. Demountable. E. Teiber. No. 1,300,514; Apr. 15; v. 261; p. 479.
- Rim-nut or the like. H. P. Kraft. No. 1,302,381; Apr. 29; v. 261; p. 917.
- Rim retracting and distending device. J. Busch. No. 1,324,033; Dec. 9; v. 269; p. 197.
- Rim. Sectional demountable. J. C. Youngblood. No. 1,314,110; Aug. 26; v. 265; p. 511.
- Rim. Split demountable. E. Oliver. No. 1,293,893; Feb. 11; v. 259; p. 244.
- Rim spreader and contractor. T. A. Ash. No. 1,321,584; Nov. 11; v. 268; p. 295.
- Rim-spreader. Demountable. H. A. Forkner. No. 1,304,674; May 27; v. 262; p. 516.
- Rim-stretcher. C. W. Dollscheck. No. 1,298,677; Apr. 1; v. 261; p. 12.
- Rim-strip. L. A. Young. No. 1,313,973; Aug. 26; v. 265; p. 485.
- Rim-tool. C. H. Guiles. No. 1,301,839; Apr. 29; v. 261; p. 814.
- Rim-tool. H. Rush. No. 1,324,693; Dec. 9; v. 269; p. 323.
- Rim-tool. A. B. Smith. No. 1,312,590; Aug. 12; v. 265; p. 170.
- Rim. Transplit demountable. E. K. Baker. No. 1,314,938; Sept. 2; v. 266; p. 85.
- Rim. Transversely-split demountable. C. W. Gressle. No. 1,312,535; Aug. 12; v. 265; p. 158.
- Rim. Vehicle-wheel. R. W. Ashley. No. 1,305,682; June 3; v. 263; p. 86.
- Rims. Carrier for demountable. E. R. Draver. No. 1,322,679; Nov. 25; v. 268; p. 603.
- Rims. Device for breaking, contracting, and expanding. G. L. Lewis. No. 1,305,654; June 3; v. 263; p. 81.
- Rims. Fastener for demountable. W. N. Park. No. 1,294,529; Feb. 18; v. 259; p. 429.
- Rims. Fastening means for demountable. J. C. Fuller. No. 1,315,184; Sept. 2; v. 266; p. 130.
- Rims. Machine for forming transplit. R. S. Bryant. No. 1,303,849; May 20; v. 262; p. 322.
- Rims. Support for demountable. G. C. Mather. No. 1,324,461; Dec. 9; v. 269; p. 279.
- Ring. See—
- Barrel-protecting ring. Nozzle-ring.
- Bull-ring. Packing-ring.
- Clutch-ring. Piston-ring.
- Ear-ring. Piston and packing ring.
- Embroidery-ring. Piston packing-ring.
- Finger-ring. Pulverizer retaining-ring.
- Hip-ring. Reinforcing-ring.
- Key-ring. String-cutting ring.
- Lap-ring.
- Ring cutting and sizing machine. J. K. Greer. No. 1,324,666; Dec. 9; v. 269; p. 318.
- Ring-inserting device. H. C. and E. Klapmeier. No. 1,321,758; Nov. 11; v. 268; p. 238.
- Rings by internal pressure. Expanding. E. T. Greenfield and J. G. V. Lang. No. 1,310,118; July 15; v. 264; p. 454.
- Rings. Machine for graduating time. G. F. Bolgiano. No. 1,309,593; July 8; v. 264; p. 321.
- Rings. Making finger-. K. Zix. No. 1,303,530; May 13; v. 262; p. 225.
- Rings on pistons. Shrinking bull-. T. Rogatchoff. No. 1,326,692; Dec. 30; v. 269; p. 811.
- Ringng apparatus. Composite. J. F. Toomey. No. 1,290,808; Jan. 7; v. 258; p. 191.
- Ringng-machine. Automatic. C. T. Gibney. No. 1,318,491; Oct. 14; v. 267; p. 220.
- Rivet-cutter safety device. J. E. Ash. No. 1,320,191; Oct. 28; v. 267; p. 590.
- Rivet-heater and spot-welder. Magnetic. T. J. Shea. No. 1,302,230; Apr. 29; v. 261; p. 888.
- Rivet-heater. Electric. W. L. Churchill. No. 1,326,479; Dec. 30; v. 269; p. 771.
- Rivet-heating appliance. Electric. G. A. E. Jones. No. 1,313,538; Aug. 19; v. 265; p. 369.
- Rivet-holder. F. W. Brooks. No. 1,317,348; Sept. 30; v. 266; p. 640.
- Rivet-holder. Sliding. G. Bolund. No. 1,320,830; Nov. 4; v. 268; p. 89.
- Rivet-hole-spacing table. Steel-plate. L. F. Coll. No. 1,325,191; Dec. 16; v. 269; p. 478.
- Rivet-set. G. R. Rich. No. 1,314,215; Aug. 26; v. 265; p. 530.
- Rivet-sorting device. E. J. Nielson. No. 1,305,152; May 27; v. 262; p. 605.
- Rivet-sorting machine. E. L. Dunn. No. 1,324,650; Dec. 9; v. 269; p. 315.
- Rivets. Apparatus for heating. G. A. E. Jones. No. 1,313,539; Aug. 19; v. 265; p. 369.
- Riveted joint. R. White. No. 1,299,275; Apr. 1; v. 261; p. 150.
- Riveted receptacle. I. E. Sexton. No. 1,313,022; Aug. 12; v. 265; p. 254.
- Riveter. Electric. W. Morava. No. 1,321,136; Nov. 11; v. 268; p. 210.
- Riveters. Protector and tool-retainer for portable. R. J. Dougherty. No. 1,325,982; Dec. 23; v. 269; p. 641.
- Riveting. J. P. Sunderland. No. 1,304,625; May 27; v. 262; p. 506.
- Riveting and punching machine. F. Y. Pearne. No. 1,305,974; June 3; v. 263; p. 141.
- Riveting. Apparatus for hot. G. A. E. Jones. No. 1,297,570; Mar. 18; v. 260; p. 454.
- Riveting. Electric. E. J. von Henke. No. 1,322,848; Nov. 25; v. 268; p. 634.
- Riveting-machine. N. H. Hassel. No. 1,309,134; July 8; v. 264; p. 236.
- Riveting-machine. F. Y. Pearne. No. 1,305,973; June 3; v. 263; p. 141.
- Riveting-machine. J. F. Pierce and H. A. Heinel. No. 1,301,600; Apr. 22; v. 261; p. 736.
- Riveting machine or hammer. P. H. Leckinger. No. 1,298,741; Apr. 1; v. 261; p. 28.
- Riveting, pressing, stamping, and like machine. Electrically-operated. E. Adamson. No. 1,290,861; Jan. 14; v. 258; p. 229.
- Riveting-tool frame. A. Gjelstad. No. 1,295,727; Feb. 25; v. 259; p. 728.
- Road-bed. H. J. Kratzer. No. 1,301,064; Apr. 15; v. 261; p. 596.
- Road-clearer. J. W. Ady. No. 1,326,559; Dec. 30; v. 269; p. 787.
- Road-clearer. J. W. Ady. No. 1,326,560; Dec. 30; v. 269; p. 787.
- Road-clearer. J. W. Ady. No. 1,326,561; Dec. 30; v. 269; p. 787.
- Road-form. E. G. Carr. No. 1,295,850; Mar. 4; v. 260; p. 7.
- Road-grader. J. N. Gould. No. 1,298,331; Mar. 25; v. 260; p. 642.
- Road-machine. R. H. Hawkins. No. 1,318,555; Oct. 14; v. 267; p. 232.
- Road-machine. J. B. Jarmin. No. 1,296,807; Mar. 11; v. 260; p. 259.
- Road-machine. J. McLaughlin. No. 1,318,679; Oct. 14; v. 267; p. 256.
- Road-machine. Bank-cutting. H. Chenault. No. 1,298,458; Mar. 25; v. 260; p. 669.
- Road-making apparatus. R. B. Gage. No. 1,320,222; Oct. 28; v. 267; p. 596.
- Road-roller. H. Cull. No. 1,320,533; Nov. 4; v. 268; p. 33.
- Road-scraper. E. J. Robards. No. 1,313,115; Aug. 12; v. 265; p. 273.
- Road scraper or drag. H. G. Torke. No. 1,322,974; Nov. 25; v. 268; p. 658.
- Road-scraper machine. H. A. Powers. No. 1,319,615; Oct. 21; v. 267; p. 460.
- Road-surfacer. P. V. Adkins. No. 1,325,601; Dec. 23; v. 269; p. 570.
- Road-surfaces. Apparatus for treating. B. E. Savage and L. H. Miner. No. 1,320,029; Oct. 28; v. 267; p. 560.
- Road-surfacing machine. R. E. Reynolds. No. 1,306,353; June 10; v. 263; p. 244.
- Road-working machine. A. G. Dunnuck. No. 1,308,174; July 1; v. 264; p. 31.
- Road-working machinery. M. R. Cole. No. 1,304,263; May 20; v. 262; p. 398.
- Roads. Apparatus for and method of making. J. A. Johnston. (Reissue). No. 14,587; Jan. 14; v. 258; p. 424.
- Roadway. F. L. Pitman. No. 1,316,182; Sept. 16; v. 266; p. 336.
- Roadway and apparatus for its manufacture. H. Maxim. No. 1,313,000; Aug. 12; v. 265; p. 250.
- Roadway-track. J. C. Schrieker. No. 1,318,332; Oct. 7; v. 267; p. 129.
- Roaster. See—
- Cereal-roaster. Coffee-roaster.
- Roasters, poppers, and the like. Means for supplying material to and removing from. C. A. Tripp. No. 1,298,265; Mar. 25; v. 260; p. 629.
- Roasting apparatus. W. J. Malcolmson and H. L. Ward. No. 1,302,946; May 6; v. 262; p. 88.
- Roasting-furnace. H. W. Gould. No. 1,319,700; Oct. 28; v. 267; p. 498.
- Roasting-machine for peanuts and the like. C. A. Tripp. No. 1,295,939; Mar. 4; v. 260; p. 27.
- Robe-holder clamp. B. Jacobs. No. 1,300,273; Apr. 15; v. 261; p. 427.
- Robe-lock. H. R. Mansfield. No. 1,300,986; Apr. 15; v. 261; p. 578.
- Robes. Locking device for. C. C. Shupp. No. 1,324,180; Dec. 9; v. 269; p. 224.
- Rock-crusher. E. H. Moyle. No. 1,304,355; May 20; v. 262; p. 416.
- Rock crusher and pulverizer. C. O. Michaelsen. No. 1,297,385; Mar. 18; v. 260; p. 416.
- Rock-crushing, &c. Hammer mechanism for. J. R. Abbott. No. 1,316,406; Sept. 16; v. 266; p. 378.
- Rock-drill. A. Ball and T. Officer. No. 1,304,523; May 20; v. 262; p. 449.



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- Rock-drill. O. E. Clark. No. 1,314,246; Aug. 26; v. 265; p. 537.
- Rock-drill. T. Gordon and H. W. Simpson. No. 1,301,121; Apr. 22; v. 261; p. 643.
- Rock-drill. A. B. Kjellgren. No. 1,317,194; Sept. 30; v. 266; p. 611.
- Rock-drill. W. Mauss. No. 1,303,705; May 13; v. 262; p. 257.
- Rock-drill. W. A. Smith. No. 1,293,225; Feb. 4; v. 259; p. 57.
- Rock-drill. W. A. Smith. No. 1,293,960; Feb. 11; v. 259; p. 260.
- Rock-drill. W. A. Smith. No. 1,293,961; Feb. 11; v. 259; p. 260.
- Rock-drill. W. A. Smith. No. 1,318,617; Oct. 14; v. 267; p. 244.
- Rock-drill bits, Fullering-block for. O. B. Camp. No. 1,312,233; Aug. 5; v. 265; p. 71.
- Rock-drill-nose connection. M. S. Beaton. No. 1,304,248; May 20; v. 262; p. 395.
- Rock-drill-operating mechanism. E. P. Jones. No. 1,314,811; Sept. 2; v. 266; p. 63.
- Rock-drill, Percussion. J. Fletcher. No. 1,305,349; June 3; v. 263; p. 23.
- Rock-drill sprayer attachment. A. Hoffman and L. H. Hileman. No. 1,290,196; Jan. 7; v. 258; p. 44.
- Rock-drills, Lubricating arrangement for pneumatic. T. Turner. No. 1,324,327; Dec. 9; v. 269; p. 252.
- Rock-drilling apparatus. S. Rudberg. No. 1,319,968; Oct. 28; v. 267; p. 549.
- Rock-drilling machine. G. Andersson. No. 1,300,100; Apr. 8; v. 261; p. 364.
- Rock-drilling machine. G. Andersson. No. 1,326,825; Dec. 30; v. 269; p. 837.
- Rock-drilling-machine cutter-head. J. J. Trakimas. No. 1,290,412; Jan. 7; v. 258; p. 96.
- Rock-picker, harrow, and potato-digger. C. M. Myers. No. 1,318,901; Oct. 14; v. 267; p. 298.
- Rocker, Infant-. S. Wronski. No. 1,308,318; July 1; v. 264; p. 57.
- Rocker member. M. J. Steizer. No. 1,295,382; Feb. 25; v. 259; p. 648.
- Rocking-chair. F. H. Mueller. No. 1,297,718; Mar. 18; v. 260; p. 486.
- Rocking, firm-standing, and pivotal chair, Direct and laterally leaning. P. Barker. No. 1,301,639; Apr. 22; v. 261; p. 743.
- Rocket. H. J. Pain. No. 1,297,898; Mar. 18; v. 260; p. 525.
- Rocket. H. J. Pain. No. 1,299,217; Apr. 1; v. 261; p. 136.
- Rocket, Magazine-. R. H. Goddard. No. 1,311,885; Aug. 5; v. 265; p. 7.
- Rocket, Signal-. R. C. Gowdy. No. 1,326,493; Dec. 30; v. 269; p. 774.
- Rocket, Signal-. R. C. Gowdy. No. 1,326,494; Dec. 30; v. 269; p. 774.
- Rod. *See*—
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|------------------------|------------------------------|
| Automobile towing-rod. | Phonograph transmission-rod. |
| Connecting-rod.        | Radius-rod.                  |
| Curtain-rod.           | Sucker-rod.                  |
| Firearm-cleaning rod.  | Switch-rod.                  |
| Fishing-rod.           | Trunk-drawer-locking rod.    |
| Lightning-rod.         |                              |
| Locomotive side rod.   |                              |
- Rod and tube reducing apparatus. L. H. Brinkman. No. 1,319,838; Oct. 28; v. 267; p. 840.
- Rod-habbiting jig, Connecting-. O. A. Bremer. No. 1,304,538; May 27; v. 262; p. 491.
- Rod-bending apparatus. H. C. Louder. No. 1,319,881; Oct. 28; v. 267; p. 533.
- Rod-bending machine. C. A. Nelson. No. 1,319,608; Oct. 21; v. 267; p. 458.
- Rod coupling, Sucker-rod or pull-. W. J. Sheldon and C. H. Allen. No. 1,305,311; June 3; v. 263; p. 16.
- Rod-hanger. K. D. Fuller. No. 1,313,808; Aug. 19; v. 265; p. 419.
- Rod-lines, Device for pulling up. E. Reed. No. 1,291,138; Jan. 14; v. 258; p. 294.
- Rod or pipe coupling. J. M. B. Lewis. No. 1,322,801; Nov. 25; v. 268; p. 626.
- Rod-pulling and clamp-tightening device. J. M. Kelley. No. 1,309,624; July 15; v. 264; p. 366.
- Rod-shifting device. R. F. Landis. No. 1,298,226; Mar. 25; v. 260; p. 620.
- Rod-switching mechanism. C. W. Hawthorne. No. 1,291,868; Jan. 21; v. 258; p. 496.
- Rods and the like, Device for the carrying of curtain-. S. V. Holm. No. 1,315,553; Sept. 9; v. 266; p. 206.
- Rods and tubes of varying diameters, Apparatus for drawing. L. H. Brinkman. No. 1,301,220; Apr. 22; v. 261; p. 664.
- Rods and tubes of varying diameters, Drawing. L. H. Brinkman. No. 1,301,221; Apr. 22; v. 261; p. 665.
- Rods and tubes, Reducing. L. H. Brinkman. No. 1,319,837; Oct. 28; v. 267; p. 525.
- Rods, bars, pipes, &c., Feed-table for. J. T. Moltrup. No. 1,298,998; Apr. 1; v. 261; p. 88.
- Rods, cylinders, &c., Making. L. T. Frederick. No. 1,323,039; Nov. 25; v. 268; p. 671.
- Rods of fine powders, Producing dense metal. K. Farkas. No. 1,323,623; Dec. 2; v. 269; p. 75.
- Rods or bars, Breaking. T. D. Dalfmeyer, G. G. Brown, and J. R. Schultz. No. 1,309,354; July 8; v. 264; p. 276.
- Rods, Pointing. B. E. Sawyer. No. 1,304,810; May 27; v. 262; p. 541.
- Rodent-exterminator. J. T. Garrison. No. 1,309,193; July 8; v. 264; p. 246.
- Rodent-poison holder and decoy. H. E. Young. No. 1,325,069; Dec. 16; v. 269; p. 454.
- Rodent-trap. W. H. Goss. No. 1,316,788; Sept. 23; v. 266; p. 499.
- Rodentia or the like, Machine for exterminating. B. Watts. No. 1,295,397; Feb. 25; v. 259; p. 652.
- Roentgen-ray tubes, Apparatus for exciting. F. Rieber. No. 1,305,495; June 3; v. 263; p. 50.
- Roll, Beater-. A. J. Allison. No. 1,295,252; Feb. 25; v. 259; p. 619.
- Roll-crusher. P. C. Van Zandt. No. 1,309,827; July 15; v. 264; p. 401.
- Roll forging and forming. A. L. Warner. No. 1,325,768; Dec. 23; v. 269; p. 601.
- Roll-former for inter-condensers, Auxiliary. C. E. Prater. No. 1,291,128; Jan. 14; v. 258; p. 292.
- Roll-grinding machine. J. G. Weiss and C. Knoth. No. 1,312,881; Aug. 12; v. 265; p. 226.
- Roll-passes, Switch for. T. D. Hodge. No. 1,307,125; June 17; v. 263; p. 418.
- Roll-polisher. F. Warther. No. 1,292,177; Jan. 21; v. 258; p. 575.
- Roll, Scouring-. C. E. Graham. No. 1,326,495; Dec. 30; v. 269; p. 774.
- Roll-stripping mechanism, Automatic. A. Libert. No. 1,315,227; Sept. 9; v. 266; p. 148.
- Rolls, Manufacturing. O. B. McMillin. No. 1,296,200; Mar. 4; v. 260; p. 88.
- Rolls of material, Means for holding. A. S. Spiegel. No. 1,298,811; Apr. 1; v. 261; p. 46.
- Roller. *See*—
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| Awning-roller.                      | Road-roller.         |
| Cable-guide roller.                 | Shade-roller.        |
| Cloth-roller.                       | Squegee-roller.      |
| Inking-roller.                      | Tandem roller.       |
| Land-roller.                        | Traction-roller.     |
| Pastry-roller.                      | Winding-roller.      |
| Printing-roller.                    | Window-shade roller. |
| Printing-press distributing-roller. |                      |
- Roller. A. J. Beaton. No. 1,326,128; Dec. 23; v. 269; p. 668.
- Roller. E. M. Winegarner. No. 1,293,600; Feb. 4; v. 259; p. 145.
- Roller. F. H. Wolever and W. J. Price. No. 1,305,330; June 3; v. 263; p. 19.
- Roller-bearing, End-thrust. E. E. Wickersham. No. 1,304,430; May 20; v. 262; p. 431.
- Roller-bearing spring-insert. J. M. Hamilton and P. A. Pnuy. No. 1,313,183; Aug. 12; v. 265; p. 286.
- Roller-bit. T. Patin. No. 1,305,488; June 3; v. 263; p. 48.
- Roller-bit. T. Patin. No. 1,305,489; June 3; v. 263; p. 49.
- Roller-boring drill. H. R. Hughes. No. 1,306,694; June 17; v. 263; p. 339.
- Roller-cord hook. C. B. Wanamaker. No. 1,292,545; Jan. 28; v. 258; p. 683.
- Roller-drill. R. O. Pickin. No. 1,302,967; May 6; v. 262; p. 93.
- Roller for finishing and smoothing cement and concrete pavements. W. L. Ashmore and T. Morgan, Jr. No. 1,302,275; Apr. 29; v. 261; p. 896.
- Roller-mill. J. Jones. No. 1,311,352; July 29; v. 264; p. 746.
- Roller-mill. F. E. Marcy. No. 1,309,210; July 8; v. 264; p. 250.
- Roller-mill. F. E. Marcy. No. 1,309,211; July 8; v. 264; p. 250.
- Roller-mill. F. E. Marcy. No. 1,309,212; July 8; v. 264; p. 250.
- Roller-screen. F. S. Kroenung. No. 1,297,365; Mar. 18; v. 260; p. 411.
- Roller-supporting device. E. J. McCauley. No. 1,306,155; June 10; v. 263; p. 204.
- Rollers, Folding-. H. A. W. Wood. No. 1,318,337; Oct. 7; v. 267; p. 130.
- Rollers, Making. F. H. Wolever. No. 1,318,520; Oct. 14; v. 267; p. 225.
- Rollers, Mounting for conveyer-. K. Kiefer. No. 1,291,021; Jan. 14; v. 258; p. 266.
- Rolling and punching mechanism. J. F. Gail. No. 1,297,341; Mar. 18; v. 260; p. 407.
- Rolling-chair. C. N. Hazelton. No. 1,322,788; Nov. 25; v. 268; p. 623.
- Rolling-machine for plastic materials. G. K. Bainbridge. No. 1,303,013; May 6; v. 262; p. 102.
- Rolling machine, Tube-. J. W. Sager. No. 1,293,940; Feb. 11; v. 259; p. 255.
- Rolling-mill. V. E. Edwards. No. 1,290,942; Jan. 14; v. 258; p. 249.
- Rolling-mill. V. E. Edwards. No. 1,290,943; Jan. 14; v. 258; p. 249.
- Rolling-mill. V. E. Edwards. No. 1,314,859; Sept. 2; v. 266; p. 71.

- Rolling-mill. J. E. Fawell. No. 1,301,414; Apr. 22; v. 261; p. 702.
- Rolling-mill. C. W. Hawthorne. No. 1,302,921; May 6; v. 262; p. 84.
- Rolling-mill. O. M. Mowat. No. 1,310,206; July 15; v. 264; p. 470.
- Rolling-mill. B. J. Shillito. No. 1,310,508; July 22; v. 264; p. 557.
- Rolling-mill guide. F. I. White. No. 1,325,343; Dec. 16; v. 269; p. 506.
- Rolling-mill, &c., table. P. C. Haldeman. No. 1,321,303; Nov. 11; v. 268; p. 242.
- Rolling-mills. Apparatus for manipulating work-pieces in. E. W. Davies. No. 1,325,080; Dec. 16; v. 269; p. 457.
- Rolling-mills. Billet-handling device for. C. W. Hawthorne. No. 1,308,986; July 8; v. 264; p. 208.
- Rolling-mills. Bridling apparatus for. H. T. Cross. No. 1,305,069; May 27; v. 262; p. 589.
- Rolling-pin. M. M. Morris. No. 1,325,260; Dec. 16; v. 269; p. 490.
- Rolling rings. Machine for. W. Scrimgeour. No. 1,295,614; Feb. 25; v. 259; p. 703.
- Rolling screen. B. Simmons. No. 1,323,499; Dec. 2; v. 269; p. 52.
- Rompers. A. F. Chase. No. 1,307,959; June 24; v. 263; p. 603.
- Rompers. A. L. Jones. No. 1,297,474; Mar. 18; v. 260; p. 434.
- Roof and like structures. Fitting for use in glazing. W. Coackley. No. 1,296,924; Mar. 11; v. 260; p. 287.
- Roof and like structures. Fittings for use in glazing. W. Coackley. No. 1,315,285; Sept. 9; v. 266; p. 159.
- Roof-bracket. P. P. Melanson. No. 1,306,434; June 10; v. 263; p. 258.
- Roof-bracket. J. N. Anderson. No. 1,301,533; Apr. 22; v. 261; p. 724.
- Roof-clip. W. H. Patterson. No. 1,292,509; Jan. 28; v. 258; p. 674.
- Roof connection. C. L. Holt. No. 1,322,189; Nov. 18; v. 268; p. 459.
- Roof construction. A. S. Alschuler. No. 1,317,470; Sept. 30; v. 266; p. 663.
- Roof construction. C. W. Donaldson. No. 1,293,378; Feb. 4; v. 259; p. 94.
- Roof construction. R. Estrade. No. 1,321,426; Nov. 11; v. 268; p. 266.
- Roof construction. C. R. Neill and E. T. Gatrell. No. 1,316,968; Sept. 23; v. 266; p. 531.
- Roof construction. P. Zimbelmann. No. 1,318,125; Oct. 7; v. 267; p. 88.
- Roof construction. Flashing-insert for. T. Fliflet. No. 1,313,283; Aug. 19; v. 265; p. 321.
- Roof construction. Metal. J. D. Jones. No. 1,297,178; Mar. 11; v. 260; p. 342.
- Roof-edging. Metal. W. Boss. No. 1,299,421; Apr. 8; v. 261; p. 211.
- Roof-fashing. J. Bropson. No. 1,299,423; Apr. 8; v. 261; p. 211.
- Roof-fashing. F. E. Grosvold. No. 1,317,574; Sept. 30; v. 266; p. 684.
- Roof-fashing. W. S. Hollaender, Jr. No. 1,317,446; Sept. 30; v. 266; p. 658.
- Roof-jack. S. Decker. No. 1,290,926; Jan. 14; v. 258; p. 246.
- Roof-layer machine. Composition. E. V. Huckelbery. No. 1,324,050; Dec. 9; v. 269; p. 200.
- Roof structure. M. A. Jackson. No. 1,313,989; Aug. 26; v. 265; p. 488.
- Roof-surfacing machine. A. G. Tolman. No. 1,319,438; Oct. 21; v. 267; p. 426.
- Roofs. Concrete-form for kipped. J. E. Brunner. No. 1,303,251; May 13; v. 262; p. 175.
- Roofing. J. T. Simpson. No. 1,320,502; Nov. 4; v. 268; p. 27.
- Roofing. A. S. Spiegel. No. 1,317,182; Sept. 30; v. 266; p. 608.
- Roofing and making same. H. A. Cumfer. No. 1,315,362; Sept. 9; v. 266; p. 172.
- Roofing. Apparatus for making prepared. A. S. Spiegel. No. 1,301,332; Apr. 22; v. 261; p. 687.
- Roofing-cap. Metal. P. F. Flage. No. 1,303,050; May 6; v. 262; p. 109.
- Roofing-clamp. H. R. Wardell. No. 1,321,958; Nov. 18; v. 268; p. 416.
- Roofing-cleat. A. C. Fischer. No. 1,322,888; Nov. 25; v. 268; p. 642.
- Roofing-clip. R. C. Clark. No. 1,297,323; Mar. 18; v. 260; p. 404.
- Roofing-cutter. C. C. Nerness. No. 1,302,414; Apr. 29; v. 261; p. 923.
- Roofing element. F. C. Overbury. No. 1,295,360; Feb. 25; v. 259; p. 643.
- Roofing elements. Machine for making. F. C. Overbury. No. 1,317,384; Sept. 30; v. 266; p. 647.
- Roofing elements. Method and apparatus for making prepared. F. C. Overbury. No. 1,314,470; Aug. 26; v. 265; p. 581.
- Roofing elements. Method and means for making prepared. F. C. Overbury. No. 1,314,477; Aug. 26; v. 265; p. 581.
- Roofing-fabric rolls. Retainer member for. R. P. Perry. No. 1,312,202; Aug. 5; v. 265; p. 66.
- Roofing-fabric rolls. Retainer member for. C. J. Rothermel. No. 1,312,211; Aug. 5; v. 265; p. 67.
- Roofing-felt. R. P. Perry. No. 1,302,209; Apr. 29; v. 261; p. 884.
- Roofing. Manufacturing prepared. S. M. Ford. No. 1,294,252; Feb. 11; v. 259; p. 329.
- Roofing. Manufacturing prepared. S. M. Ford. No. 1,294,785; Feb. 18; v. 259; p. 489.
- Roofing material. J. A. Scharwath. No. 1,296,324; Mar. 4; v. 260; p. 115.
- Roofing material. Mechanism for producing. S. H. Goldberg. No. 1,298,690; Apr. 1; v. 261; p. 15.
- Roofing. Means of applying sheathing to corrugated. A. G. Tolman. No. 1,298,830; Apr. 1; v. 261; p. 49.
- Roofing. Metal. I. N. Owens. No. 1,292,960; Jan. 28; v. 258; p. 782.
- Roofing. Metallic. E. W. Brague. No. 1,295,107; Feb. 25; v. 259; p. 585.
- Roofing. Prepared mineral-surfaced. F. C. Overbury. No. 1,314,753; Sept. 2; v. 266; p. 52.
- Roofing. Reclamation of discarded mineral-surface. R. L. Fowler. No. 1,290,959; Jan. 14; v. 258; p. 253.
- Roofing-slab. A. S. Speer. No. 1,318,238; Oct. 7; v. 267; p. 112.
- Roofing-strips. Machine for making. O. A. Heppes. No. 1,290,555; Jan. 7; v. 258; p. 131.
- Roofing-tile. M. Henry. No. 1,297,162; Mar. 11; v. 260; p. 339.
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- Roost and nest. Combined. C. L. Gilmore. No. 1,314,075; Aug. 26; v. 265; p. 504.
- Roost. Poultry-. J. B. Reagan. No. 1,301,321; Apr. 22; v. 261; p. 684.
- Roosts. Disinfectant attachment for poultry-. B. P. Hanson. No. 1,325,360; Dec. 16; v. 269; p. 509.
- Root-cutting implement. H. Holford. No. 1,310,569; July 22; v. 264; p. 568.
- Rope-carried trip device. S. L. Hanson. No. 1,299,334; Apr. 1; v. 261; p. 163.
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- Rope or cord. Machine for making ornamental. F. W. Oehrle. No. 1,310,401; July 15; v. 264; p. 506.
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- Rubber and cotton from waste, Reclaiming. P. E. Young. No. 1,321,201; Nov. 11; v. 268; p. 222.
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- Rubber and obtaining same. L. E. Barton and H. A. Gardner. No. 1,326,319; Dec. 30; v. 269; p. 741.
- Rubber and products obtained thereby, Vulcanizing. W. A. Gibbons. No. 1,291,828; Jan. 21; v. 258; p. 486.
- Rubber and product obtained thereby, Vulcanizing. I. Ostromislensky. No. 1,320,166; Oct. 28; v. 267; p. 586.
- Rubber and product obtained thereby, Vulcanizing. S. P. Thacher. No. 1,312,144; Aug. 5; v. 265; p. 55.
- Rubber and the like, Extruding. J. B. Stratton and E. A. Claremont. No. 1,302,484; Apr. 29; v. 261; p. 937.
- Rubber and the product produced thereby, Treating. R. Zertuche. No. 1,302,266; Apr. 29; v. 261; p. 894.
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- Rubber article and making same, Decorated. A. A. Somerville. No. 1,309,703; July 15; v. 264; p. 379.
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- Rubber articles, Vulcanizing. R. B. Price. No. 1,295,594; Feb. 25; v. 259; p. 698.
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- Rubber boot and shoe repair vulcanizer. C. E. Miller. No. 1,293,159; Feb. 4; v. 259; p. 43.
- Rubber boots and shoes, Vulcanizer for. F. B. Ross. No. 1,311,012; July 22; v. 264; p. 650.
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- Rubber composition and making same. J. M. Bierer. No. 1,303,759; May 13; v. 262; p. 267.
- Rubber composition and vulcanization product thereof, Producing. R. C. Hartong. No. 1,301,693; Apr. 22; v. 261; p. 755.
- Rubber composition, Cotton-containing. J. F. Johnston. No. 1,291,536; Jan. 14; v. 258; p. 386.
- Rubber-compound material, Resilient. T. H. Rieder and W. B. Wiegand. No. 1,305,008; May 27; v. 262; p. 578.
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- Rubber heel. C. T. Maddock. No. 1,325,367; Dec. 16; v. 269; p. 510.
- Rubber heel. E. L. Robertson. No. 1,301,974; Apr. 29; v. 261; p. 840.
- Rubber heel. A. Santacroce. No. 1,313,118; Aug. 12; v. 265; p. 273.
- Rubber heel for shoes. G. F. Wells. No. 1,325,822; Dec. 23; v. 269; p. 612.
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- Rubber-heel protector. W. R. Hildebrand. No. 1,326,503; Dec. 30; v. 269; p. 775.
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- Rubber-mixing machine. B. B. Felix. No. 1,320,128; Oct. 28; v. 267; p. 578.
- Rubber overshoe and making same. J. J. Batterman. No. 1,292,993; Feb. 4; v. 259; p. 5.
- Rubber pads, Inserting bristles in. W. T. Sherman. No. 1,324,178; Dec. 9; v. 269; p. 224.
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- Rubber, Reclaiming. H. R. Haertel. No. 1,310,013; July 15; v. 264; p. 436.
- Rubber, Reclaiming. J. Young and W. W. Benner. No. 1,324,093; Dec. 9; v. 269; p. 208.
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- Rubber-slicing machine. E. Nall. No. 1,319,301; Oct. 21; v. 267; p. 399.
- Rubber sole. F. A. Nolan. No. 1,298,551; Mar. 25; v. 260; p. 690.
- Rubber sole for turn-shoes. G. Ferguson. No. 1,303,871; May 20; v. 262; p. 326.
- Rubber sole for turn-shoes. G. Ferguson. No. 1,312,528; Aug. 12; v. 265; p. 157.
- Rubber soles for boots and shoes. M. H. Clark. No. 1,318,645; Oct. 14; v. 267; p. 249.
- Rubber soles for boots and shoes, Producing. M. H. Clark. No. 1,319,032; Oct. 14; v. 267; p. 323.
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- Rubber solvent, Recovering. J. D. Morron. No. 1,312,452; Aug. 5; v. 265; p. 113.
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- Rubber-stamp index. N. R. Medearis. No. 1,325,569; Dec. 23; v. 269; p. 565.
- Rubber stamps, Self-feeding inking-pad for. F. H. Bronner. No. 1,321,785; Nov. 11; v. 268; p. 333.
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- Rubber, &c., Synthetically producing. L. Gottschalk. No. 1,323,589; Dec. 2; v. 269; p. 69.
- Rubber-tire-trimming tool, Solid. G. H. Johnson. No. 1,319,287; Oct. 21; v. 267; p. 397.
- Rubber tires, Machine for calendaring vulcanite bases for solid. C. Macbeth and H. Willshaw. No. 1,320,334; Oct. 28; v. 267; p. 617.
- Rubber waste, Treating. J. F. Johnston. No. 1,291,535; Jan. 14; v. 258; p. 386.
- Rubber-working machine. G. W. Bulley. No. 1,290,505; Jan. 7; v. 258; p. 119.
- Rubber-working machine. G. W. Bulley. No. 1,323,213; Nov. 25; v. 268; p. 704.
- Rubber-working machine. I. H. Spencer. No. 1,326,375; Dec. 30; v. 269; p. 751.
- Rubbers, Name-plate for. A. C. Booth. No. 1,291,739; Jan. 21; v. 258; p. 465.
- Rubberized-fabric tubes and strips, Machine for making. J. T. Lister. No. 1,304,995; May 27; v. 262; p. 575.
- Rubbing mechanism. P. H. Friel. No. 1,306,533; June 10; v. 263; p. 276.
- Rubbish-burner, Portable. A. J. Roberts. No. 1,292,065; Jan. 21; v. 258; p. 547.
- Rudder. R. B. Owen. No. 1,302,956; May 6; v. 262; p. 91.
- Rudderpost of steel-concrete vessels. H. Alfson. No. 1,316,345; Sept. 16; v. 266; p. 367.
- Ruffer, Sewing-machine. H. H. Russell. No. 1,314,705; Sept. 2; v. 266; p. 44.
- Ruffling mechanism. E. F. Le Fevre. No. 1,320,248; Oct. 28; v. 267; p. 601.
- Rug and carpet cleaning machine. J. H. Jones. No. 1,314,813; Sept. 2; v. 266; p. 63.
- Rug-beater. W. E. Schneider and G. E. Voelksen. No. 1,305,497; June 3; v. 263; p. 50.
- Rug-displaying device. J. A. Berno. No. 1,320,442; Nov. 4; v. 268; p. 16.
- Rug-extractor. H. R. McNeilly. No. 1,307,559; June 24; v. 263; p. 530.
- Rug for animals. T. O'Brien and J. McLoughlin. No. 1,293,521; Feb. 4; v. 259; p. 127.
- Rugs, Implement for making. H. G. Armstrong. No. 1,323,733; Dec. 2; v. 269; p. 95.
- Rugs on carpets, Means for fastening. M. H. Hannah. No. 1,312,323; Aug. 5; v. 265; p. 87.
- Rule. H. Simon. No. 1,299,627; Apr. 8; v. 261; p. 258.
- Rule and square, Combined. I. A. Balatti. No. 1,325,606; Dec. 23; v. 269; p. 571.
- Rule and T-square. E. P. Seghers. No. 1,292,654; Jan. 28; v. 258; p. 710.
- Rule, Column. G. T. Trundle, Jr. No. 1,306,038; June 10; v. 263; p. 183.
- Rule, Extension. H. Gasstrom and J. A. Benson. No. 1,293,079; Feb. 4; v. 259; p. 25.
- Rule, Flexible. A. E. Hegardt. No. 1,313,482; Aug. 19; v. 265; p. 358.
- Rule, Head. W. A. Glimpse. No. 1,307,967; June 24; v. 263; p. 604.
- Rule-holder. A. Molander. No. 1,319,409; Oct. 21; v. 267; p. 420.
- Rule-holder. C. C. Winter. No. 1,321,175; Nov. 11; v. 268; p. 217.
- Rule, Lumber. S. P. Bopst. No. 1,308,654; July 1; v. 264; p. 118.
- Rule-slide. W. J. Bousquet. No. 1,291,742; Jan. 21; v. 258; p. 465.
- Rule, Tailor's. F. Mastrangelo. No. 1,314,085; Aug. 26; v. 265; p. 506.
- Ruler and compasses, Combined. J. I. Menin and A. E. Plauschinat. No. 1,304,501; May 20; v. 262; p. 445.
- Ruler, Angle and arc dividing. P. Milliken. No. 1,294,935; Feb. 18; v. 259; p. 523.



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- Ruler attachment. K. E. Smith. No. 1,310,685; July 22; v. 264; p. 589.
- Ruler, Parallel. A. L. McTaggart. No. 1,322,592; Nov. 25; v. 268; p. 587.
- Ruling-board. N. M. Johnson and T. S. Quin. No. 1,295,901; Mar. 4; v. 260; p. 19.
- Ruling device. G. E. Mendell. No. 1,297,217; Mar. 11; v. 260; p. 350.
- Ruling-machines, Pen-clamp for. G. Van Wormer. No. 1,314,916; Sept. 2; v. 266; p. 82.
- Running-board mat. T. C. McPherson. No. 1,291,977; Jan. 21; v. 258; p. 525.
- Running-gear. O. T. Hollis. No. 1,302,489; Apr. 29; v. 261; p. 938.
- Runway, Gravity and like. P. G. Donald. No. 1,323,171; Nov. 25; v. 268; p. 696.
- Rupture appliance. J. C. Riley. No. 1,321,127; Nov. 11; v. 268; p. 208.
- Rust-preventing coating. G. H. and W. H. Allen. No. 1,305,331; June 3; v. 263; p. 19.
- S-iron-bending machine. F. J. Schroeder. No. 1,309,420; July 8; v. 264; p. 289.
- Sack-holder. R. I. McNaughton. No. 1,312,336; Aug. 5; v. 265; p. 89.
- Sack-lifter. H. C. Link. No. 1,303,692; May 13; v. 262; p. 254.
- Sack, Picking. W. T. McDearmon. No. 1,322,320; Nov. 18; v. 268; p. 484.
- Sack-protector. W. A. Roer. No. 1,296,431; Mar. 4; v. 260; p. 138.
- Sack-ties, Tool for applying. A. Stroner. No. 1,322,971; Nov. 25; v. 268; p. 658.
- Sacking-machine, Portable. W. K. Liggett. No. 1,320,249; Oct. 28; v. 267; p. 601.
- Sad-iron. W. C. Fischer. No. 1,316,291; Sept. 16; v. 266; p. 357.
- Sad-iron and heating and cooking stove and lamp, Convertible electric. J. Bloch. No. 1,293,010; Feb. 4; v. 259; p. 9.
- Sad-iron handle. L. R. and B. G. Hight. No. 1,298,210; Mar. 25; v. 260; p. 617.
- Sad-iron support. D. Hartig. No. 1,316,031; Sept. 16; v. 266; p. 308.
- Sadiron. M. Sunshine. No. 1,317,998; Oct. 7; v. 267; p. 64.
- Sadiron wax pad. G. E. Gaver. No. 1,317,970; Oct. 7; v. 267; p. 59.
- Saddle. C. A. Persons. No. 1,306,622; June 10; v. 263; p. 293.
- Saddle. H. A. Sievert. No. 1,321,397; Nov. 11; v. 268; p. 260.
- Saddle. H. A. Sievert. No. 1,321,398; Nov. 11; v. 268; p. 261.
- Saddle and checkrein-hook. J. S. Bealle. No. 1,292,996; Feb. 4; v. 259; p. 6.
- Saddle for pneumatic hammers. R. J. Troeger. No. 1,293,251; Feb. 4; v. 259; p. 64.
- Saddle mechanism, Top-roll. J. V. Cunliff. No. 1,307,117; June 17; v. 263; p. 416.
- Saddle, Obstetrical. A. M. Hoyer. No. 1,295,753; Feb. 25; v. 259; p. 734.
- Saddle, Riding. J. S. Guerrero. No. 1,301,838; Apr. 29; v. 261; p. 814.
- Saddle, Top-roll. E. Dixon. No. 1,306,528; June 10; v. 263; p. 275.
- Saddler's implement. W. Pass. No. 1,313,556; Aug. 19; v. 265; p. 372.
- Safe and vault protecting device, Electric. D. M. Pease. No. 1,319,416; Oct. 21; v. 267; p. 422.
- Safe-door trap. A. K. Winter. No. 1,321,409; Nov. 11; v. 268; p. 263.
- Safe, Fireproof wall-. I. and J. Rauwald. No. 1,297,492; Mar. 18; v. 260; p. 438.
- Safe, Floatable. G. Marzio. No. 1,307,263; June 17; v. 263; p. 442.
- Safe-lock. C. A. Roshon. No. 1,317,221; Sept. 30; v. 266; p. 616.
- Safe-saving device. L. E. Armstrong. No. 1,313,156; Aug. 12; v. 265; p. 281.
- Safety appliance. W. W. Taylor. No. 1,302,101; Apr. 29; v. 261; p. 863.
- Safety appliance, Personal. J. W. Udall. No. 1,315,436; Sept. 9; v. 266; p. 186.
- Safety attachment. E. J. Gardner. No. 1,312,843; Aug. 12; v. 265; p. 219.
- Safety-can. P. Anderson. No. 1,312,822; Aug. 12; v. 265; p. 215.
- Safety-can. J. Patronell. No. 1,315,033; Sept. 2; v. 266; p. 103.
- Safety-chest for containing valuables. J. L. McQuarrie. No. 1,291,051; Jan. 14; v. 258; p. 274.
- Safety-clip. M. J. Palmer. No. 1,311,574; July 29; v. 264; p. 788.
- Safety-clip. L. Woods. No. 1,324,091; Dec. 9; v. 269; p. 208.
- Safety-closure means. W. P. Richardson. No. 1,309,218; July 8; v. 264; p. 251.
- Safety-clutch. T. Hagman. No. 1,321,626; Nov. 11; v. 268; p. 303.
- Safety coupling-hook. D. C. Kuffel. No. 1,293,126; Feb. 4; v. 259; p. 36.
- Safety device. G. H. Day. No. 1,308,775; July 8; v. 264; p. 169.
- Safety device. F. E. Lander. No. 1,313,546; Aug. 19; v. 265; p. 370.
- Safety device. D. L. Lindquist. No. 1,300,424; Apr. 15; v. 261; p. 439.
- Safety device. A. L. Lumby. No. 1,324,834; Dec. 16; v. 269; p. 411.
- Safety device. P. A. Ritter. No. 1,311,774; July 29; v. 264; p. 825.
- Safety device. C. F. Root. No. 1,298,566; Mar. 25; v. 260; p. 693.
- Safety device. C. F. Root. No. 1,298,567; Mar. 25; v. 260; p. 693.
- Safety device. C. F. Root. No. 1,298,568; Mar. 25; v. 260; p. 693.
- Safety device for machinery. L. J. Ripich and J. V. Horry. No. 1,312,210; Aug. 5; v. 265; p. 67.
- Safety device for ships. M. J. Christensen. No. 1,307,040; June 17; v. 263; p. 403.
- Safety-elevator. T. W. Jones. No. 1,301,791; Apr. 22; v. 261; p. 776.
- Safety elevator appliance. A. P. Bagby and J. B. Thompson. No. 1,302,623; May 6; v. 262; p. 27.
- Safety grip-hook. D. Loney. No. 1,305,135; May 27; v. 262; p. 601.
- Safety-hoist. H. Phillips and J. Greenwald. No. 1,305,931; June 3; v. 263; p. 133.
- Safety-hook. F. J. Farra. No. 1,312,966; Aug. 12; v. 265; p. 243.
- Safety-hook. M. Gorman. No. 1,307,251; June 17; v. 263; p. 440.
- Safety-hook. R. Kentling. No. 1,322,118; Nov. 18; v. 268; p. 445.
- Safety-hook. C. Knudsen. No. 1,324,676; Dec. 9; v. 269; p. 320.
- Safety-hook. T. N. Robinson. No. 1,291,673; Jan. 14; v. 258; p. 419.
- Safety-indicator and license-bracket. N. M. Johnson and T. S. Quin. No. 1,291,010; Jan. 14; v. 258; p. 264.
- Safety limit-switch. D. R. Knapp. No. 1,299,839; Apr. 8; v. 261; p. 307.
- Safety-lock for elevator-doors. W. E. Day. No. 1,295,444; Feb. 25; v. 259; p. 662.
- Safety operating mechanism. H. De Smith. No. 1,295,447; Feb. 25; v. 259; p. 663.
- Safety operating mechanism. E. M. Hawkins. No. 1,296,798; Mar. 11; v. 260; p. 257.
- Safety operating mechanism. C. R. Seymour. No. 1,294,959; Feb. 18; v. 259; p. 528.
- Safety or shield pin. J. W. Ivory. No. 1,306,818; June 17; v. 263; p. 361.
- Safety panel-box. H. F. Krantz. No. 1,292,807; Jan. 28; v. 258; p. 746.
- Safety panel-box. H. F. Krantz. No. 1,292,808; Jan. 28; v. 258; p. 746.
- Safety panel-box. H. F. Krantz. No. 1,292,809; Jan. 28; v. 258; p. 746.
- Safety panel-box. H. F. Krantz. No. 1,292,810; Jan. 28; v. 258; p. 746.
- Safety panel-box. H. F. Krantz. No. 1,306,345; June 10; v. 263; p. 242.
- Safety panel-box. H. F. Krantz. No. 1,306,346; June 10; v. 263; p. 242.
- Safety panel-box. H. F. Krantz. No. 1,306,347; June 10; v. 263; p. 242.
- Safety panel-box. H. F. Krantz. No. 1,324,555; Dec. 9; v. 269; p. 297.
- Safety-pin. H. Bush. No. 1,299,675; Apr. 8; v. 261; p. 270.
- Safety-pin. J. H. Richardson. No. 1,310,929; July 22; v. 264; p. 634.
- Safety receiving-box. J. Friedland. No. 1,307,352; June 24; v. 263; p. 492.
- Safety-switch. I. C. and B. Vincent. No. 1,302,736; May 6; v. 262; p. 48.
- Safety switch-lock. N. J. Beckner. No. 1,313,978; Aug. 26; v. 265; p. 486.
- Safety switch-lock. J. A. Dunn. No. 1,302,331; Apr. 29; v. 261; p. 907.
- Safety-switch, Removable. H. F. Krantz. No. 1,292,806; Jan. 28; v. 258; p. 745.
- Saggar. H. D. Lillibridge. No. 1,302,684; May 6; v. 262; p. 38.
- Sail-controlling system. R. Macrea. No. 1,304,788; May 27; v. 262; p. 537.
- Salad-dressing mixing and serving receptacles, Operating mechanism for. M. Eck. No. 1,321,609; Nov. 11; v. 268; p. 300.
- Sales-board. C. A. Brewer. No. 1,309,349; July 8; v. 264; p. 275.
- Sales-board. C. A. Brewer. No. 1,309,350; July 8; v. 264; p. 276.
- Sales-register. J. L. Morris. No. 1,316,103; Sept. 16; v. 266; p. 321.
- Sales-register, Pocket. A. S. Samuels. No. 1,323,495; Dec. 2; v. 269; p. 51.
- Sales-register, Pocket. A. S. Samuels and J. Rittigstein. No. 1,323,494; Dec. 2; v. 269; p. 51.
- Sales-slip holder. W. H. Sawyer. (Reissue.) No. 14,739; Oct. 21; v. 267; p. 472.

- Saline, alkaline, or acid impurities in liquids, Means for electrically indicating the presence of. W. C. Crockett. No. 1,320,036; Oct. 28; v. 267; p. 562.
- Salt and pepper shaker. E. H. Goodwin. No. 1,294,652; Feb. 18; v. 259; p. 457.
- Salt and pepper shaker top. B. D. Burke. No. 1,325,687; Dec. 23; v. 269; p. 587.
- Salt cake and sulfuric acid from niter cake, Making. W. J. Kee. No. 1,313,192; Aug. 12; v. 265; p. 287.
- Salt from natural brines, Extracting. A. E. Schaefer. No. 1,297,737; Mar. 18; v. 260; p. 491.
- Salt-shaker. L. Weidlich. No. 1,307,838; June 24; v. 263; p. 580.
- Salt suitable for manufacture of explosives, and making these explosives, Preparation of an oxygen-carrying. A. J. Marin. No. 1,320,160; Oct. 28; v. 267; p. 585.
- Salts, Extracting potassium. R. S. Edwards. No. 1,320,211; Oct. 28; v. 267; p. 594.
- Salts from potassium-bearing materials, Extraction and recovery of potassium or potassium. E. A. Ashcroft. No. 1,320,193; Oct. 28; v. 267; p. 590.
- Salts from saline mixtures containing the same, Recovering potassium. J. H. Reeve. No. 1,304,097; May 20; v. 262; p. 367.
- Salts from silicates, Recovering. R. S. Edwards. No. 1,320,212; Oct. 28; v. 267; p. 594.
- Salts, &c., from sugar refuse, Reclaiming potassium. M. J. Kermer and H. A. Faber. No. 1,303,916; May 20; v. 262; p. 334.
- Salts of chromium, Isolating. G. N. Vis. No. 1,324,328; Dec. 9; v. 269; p. 253.
- Salts of potassium from solutions thereof, Recovering. N. T. Bacon. No. 1,304,931; May 27; v. 262; p. 563.
- Salts of the extractive product from the hypophysis gland. F. Flaecher and B. Reuter. No. 1,296,064; Mar. 4; v. 260; p. 57.
- Salts, Producing dehydrated mineral. L. Dooner. No. 1,308,403; July 1; v. 264; p. 72.
- Salts, Producing lead. R. M. Harrington. No. 1,308,948; July 8; v. 264; p. 201.
- Salting and feeding device, Stock. H. Holland. No. 1,324,593; Dec. 9; v. 269; p. 305.
- Salvaging apparatus. G. A. Long. No. 1,324,425; Dec. 9; v. 269; p. 272.
- Salve. R. E. Sams. No. 1,298,407; Mar. 25; v. 260; p. 658.
- Sample-taking device. R. E. Carmichael. No. 1,324,304; Dec. 9; v. 269; p. 248.
- Sample-taking device. W. L. Church. No. 1,300,346; Apr. 15; v. 261; p. 443.
- Sample-taking device. R. D. Dodds. No. 1,295,134; Feb. 25; v. 259; p. 592.
- Sampling device. R. D. Dodds. No. 1,319,325; Oct. 21; v. 267; p. 404.
- Sand and gravel, Device for grading and washing. L. F. Rector. No. 1,299,226; Apr. 1; v. 261; p. 138.
- Sand-bars and other water accumulations, Means for removing. J. P. Porter. No. 1,304,509; May 20; v. 262; p. 446.
- Sand-blast machine. C. F. Motz. No. 1,317,809; Oct. 7; v. 267; p. 28.
- Sand-blast apparatus. W. P. Mott. No. 1,297,223; Mar. 11; v. 260; p. 352.
- Sand-blast apparatus. P. Schroeder. No. 1,301,980; Apr. 29; v. 261; p. 841.
- Sand-blast machine. W. H. and G. W. Leiman. No. 1,313,306; Aug. 19; v. 265; p. 325.
- Sand-box ventilator. C. F. Mather. No. 1,299,495; Apr. 8; v. 261; p. 228.
- Sand core for molds for casting metal and manufacture of such cores. A. E. Outerbridge, Jr. No. 1,324,208; Dec. 9; v. 269; p. 230.
- Sand-cutting appliance. G. C. Fatscher. No. 1,316,884; Sept. 23; v. 266; p. 516.
- Sand handling and cutting apparatus. J. F. Ervin. No. 1,323,461; Dec. 2; v. 269; p. 45.
- Sand in molds, Rammer for compacting. N. Rappez. No. 1,316,973; Sept. 23; v. 266; p. 533.
- Sand molds, Drying. J. B. Walker. No. 1,299,522; Apr. 8; v. 261; p. 234.
- Sand-ramming machine, Mechanical. D. J. Campbell. No. 1,321,283; Nov. 11; v. 268; p. 238.
- Sand, Reamer for oil and gas bearing. A. Otto. No. 1,323,905; Dec. 2; v. 269; p. 128.
- Sand-spreader. T. Kerner. No. 1,297,361; Mar. 18; v. 260; p. 411.
- Sands, Recovering thorium from monazite. O. N. Berndt. No. 1,323,735; Dec. 2; v. 269; p. 96.
- Sander-machine drum. P. A. Solem. No. 1,302,724; May 6; v. 262; p. 46.
- Sanding device. A. A. Fryer. No. 1,305,086; May 27; v. 262; p. 592.
- Sanding device. R. Robinson. No. 1,326,140; Dec. 23; v. 269; p. 670.
- Sanding-machine. K. F. G. Maler. No. 1,305,731; June 3; v. 263; p. 95.
- Sanding-machine. K. F. G. Maler and L. G. McKnight. No. 1,305,916; June 3; v. 263; p. 129.
- Sandpaper-block. A. A. Wilson. No. 1,320,299; Oct. 28; v. 267; p. 611.
- Sandpaper-cutting machine. J. Smith. No. 1,301,754; Apr. 22; v. 261; p. 707.
- Sandpapering or smoothing wood moldings, Machine for. J. R. Marsden. No. 1,312,193; Aug. 5; v. 265; p. 64.
- Sandal, Wood. R. J. Manderfield. No. 1,310,358; July 15; v. 264; p. 498.
- Sanitary appliance. E. W. Hast. No. 1,294,099; Feb. 11; v. 259; p. 293.
- Sanitary-can end. I. D. Thornburgh. No. 1,299,063; Apr. 1; v. 261; p. 103.
- Sanitary closet. M. M. Marcuse. No. 1,297,709; Mar. 18; v. 260; p. 484.
- Sanitary closet. M. M. Marcuse. No. 1,297,710; Mar. 18; v. 260; p. 485.
- Sanitary closet structure. E. T. Montgomery. No. 1,303,358; May 13; v. 262; p. 194.
- Sanitary comb. C. A. Kunkler. No. 1,305,226; May 27; v. 262; p. 619.
- Sanitary dispensing apparatus. F. Younger. No. 1,295,665; Feb. 25; v. 259; p. 715.
- Sanitary hog-trough. J. Dobry. No. 1,290,931; Jan. 14; v. 258; p. 247.
- Sanitary or single-service cup or other receptacle holder. A. Burgess. No. 1,299,120; Apr. 1; v. 261; p. 115.
- Sanitary pouch. W. K. Fletcher. No. 1,317,012; Sept. 23; v. 266; p. 540.
- Sanitary-seat-shield cutter. B. F. Cisor. No. 1,320,602; Nov. 4; v. 268; p. 46.
- Sanitary serving device. E. S. Williams. No. 1,313,364; Aug. 19; v. 265; p. 336.
- Sanitary sputum can or bucket. R. Moore. No. 1,299,375; Apr. 1; v. 261; p. 172.
- Sanitary trap. R. N. Murphy. No. 1,311,287; July 29; v. 264; p. 734.
- Sash. C. J. Sheldon. No. 1,319,121; Oct. 21; v. 267; p. 365.
- Sash-adjuster. D. W. Heylman. No. 1,303,794; May 13; v. 262; p. 273.
- Sash-adjuster. W. C. Simpson and J. A. Stewart. No. 1,325,417; Dec. 16; v. 269; p. 519.
- Sash and curtain operating mechanism, Window. H. W. Schwarz. No. 1,293,213; Feb. 4; v. 259; p. 55.
- Sash and door fastener, Storm. M. Friar. No. 1,295,725; Feb. 25; v. 259; p. 728.
- Sash and the like, Joint for metallic. A. Rush. No. 1,305,746; June 3; v. 263; p. 98.
- Sash attachment, Window-. R. Besocke. No. 1,314,241; Aug. 26; v. 265; p. 536.
- Sash-center. C. V. Hetts. No. 1,299,183; Apr. 1; v. 261; p. 130.
- Sash-cord connector. G. Iser. No. 1,326,734; Dec. 30; v. 269; p. 819.
- Sash construction. J. Kahn. No. 1,319,091; Oct. 21; v. 267; p. 359.
- Sash-control mechanism. F. P. Anderson. No. 1,319,317; Oct. 21; v. 267; p. 403.
- Sash control, Spring. S. L. Markham. No. 1,318,573; Oct. 14; v. 267; p. 236.
- Sash-fastener. J. H. Cobb. No. 1,312,893; Aug. 12; v. 265; p. 228.
- Sash-fastener. A. H. Hutchings. No. 1,299,834; Apr. 8; v. 261; p. 306.
- Sash-fastener. J. A. Johnson. No. 1,320,147; Oct. 28; v. 267; p. 582.
- Sash-holder. J. Karasevicz. No. 1,321,214; Nov. 11; v. 268; p. 225.
- Sash-fastener. J. C. Vera. No. 1,310,313; July 15; v. 264; p. 489.
- Sash-fastener. D. L. Wenrick. No. 1,312,933; Aug. 12; v. 265; p. 236.
- Sash-holder. C. Wessoleck. No. 1,318,468; Oct. 14; v. 267; p. 215.
- Sash fastener, Storm-. L. R. Borland. No. 1,311,037; July 22; v. 264; p. 655.
- Sash-holder. J. G. Aden. No. 1,309,677; July 15; v. 264; p. 374.
- Sash-holder. H. L. Horton. No. 1,326,345; Dec. 30; v. 269; p. 745.
- Sash-holder. G. J. T. Iwersen. No. 1,304,880; May 27; v. 262; p. 554.
- Sash-lock. E. A. Donat. No. 1,301,407; Apr. 22; v. 261; p. 701.
- Sash-lock. J. G. Kastler. No. 1,321,053; Nov. 4; v. 268; p. 131.
- Sash-lock. J. O. Long. No. 1,304,334; May 20; v. 262; p. 411.
- Sash-lock. F. T. Robinson. No. 1,300,298; Apr. 15; v. 261; p. 432.
- Sash lock and pull, Window-. B. W. Middleton. No. 1,317,031; Sept. 23; v. 266; p. 543.
- Sash-lock, Automatic. M. A. Erickson. No. 1,320,461; Nov. 4; v. 268; p. 19.
- Sash, Mechanism for operating window-. U. E. Tuomi. No. 1,306,868; June 17; v. 263; p. 370.
- Sash-operating mechanism. J. A. Peterman. No. 1,320,568; Nov. 4; v. 268; p. 40.
- Sash or frame joint, Metal. H. L. Smith. No. 1,301,981; Apr. 29; v. 261; p. 841.
- Sash or frame, Metal. L. S. Lachman. No. 1,308,428; July 1; v. 264; p. 76.
- Sash or window fastener. E. Keuser, Sr. No. 1,305,550; June 3; v. 263; p. 61.
- Sash, Reversible. M. Brand. No. 1,317,754; Oct. 7; v. 267; p. 18.



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- Sash, Window-. C. W. Dunn. No. 1,298,187; Mar. 25; v. 260; p. 612.
- Sashes, Antirattling device for window-. D. H. Chason. No. 1,313,069; Aug. 12; v. 265; p. 264.
- Satchel-handle. J. Hegerhorst. No. 1,317,922; Oct. 7; v. 267; p. 50.
- Satchel-handle. J. Hegerhorst. No. 1,317,923; Oct. 7; v. 267; p. 50.
- Sausage-casings, Machine for the treatment of. O. G. Mayer. No. 1,302,194; Apr. 29; v. 261; p. 881.
- Sausage-linking machine. L. Reisfeld and D. G. Reichman. No. 1,295,208; Feb. 25; v. 259; p. 608.
- Sausage-linking machine. F. A. D. and C. J. Will. No. 1,316,752; Sept. 23; v. 266; p. 493.
- Sausage-stuffing machine. G. H. Stallman. No. 1,295,809; Feb. 25; v. 259; p. 747.
- Sausages, Machine for filling and linking. L. Reisfeld. No. 1,292,645; Jan. 28; v. 258; p. 708.
- Savings device. H. S. Driesslein. No. 1,299,562; Apr. 8; v. 261; p. 243.
- Saw. A. E. Edmondson. No. 1,314,255; Aug. 26; v. 265; p. 539.
- Saw. A. W. Gates. No. 1,295,477; Feb. 25; v. 259; p. 670.
- Saw. O. J. Kendon. No. 1,319,712; Oct. 28; v. 267; p. 500.
- Saw attachment. D. R. Barlegh. No. 1,294,767; Feb. 18; v. 259; p. 485.
- Saw attachment. D. Worden. No. 1,312,661; Aug. 12; v. 265; p. 184.
- Saw, Band-. J. A. Du Laney. No. 1,296,488; Mar. 4; v. 260; p. 150.
- Saw-bench segment-jointing attachment. J. D. McMichael and F. H. Clement. No. 1,299,367; Apr. 1; v. 261; p. 170.
- Saw-blade. R. W. Pittman. No. 1,321,391; Nov. 11; v. 268; p. 259.
- Saw, Brace-. B. Black. No. 1,316,556; Sept. 23; v. 266; p. 455.
- Saw brace, Compass-. C. M. Reed. No. 1,318,594; Oct. 14; v. 267; p. 240.
- Saw, Butcher's. F. O. Johnson. No. 1,303,908; May 20; v. 262; p. 333.
- Saw-carrying device. J. C. Munkers. No. 1,305,831; June 3; v. 263; p. 113.
- Saw-clamp. M. C. Huggins. No. 1,324,594; Dec. 9; v. 269; p. 305.
- Saw-clamp. J. Well. No. 1,290,817; Jan. 7; v. 258; p. 194.
- Saw, Crosscut band-. H. W. Howland. No. 1,291,002; Jan. 14; v. 258; p. 262.
- Saw-cutting machine. P. Okey. No. 1,296,110; Mar. 4; v. 260; p. 67.
- Saw-filer. A. Stewart. No. 1,314,912; Sept. 2; v. 266; p. 81.
- Saw-filing device. J. J. Sanford. No. 1,290,667; Jan. 7; v. 258; p. 159.
- Saw-filing gage. W. La Clair. No. 1,308,247; July 1; v. 264; p. 44.
- Saw-filing machine. R. B. Creasy. No. 1,297,547; Mar. 18; v. 260; p. 449.
- Saw-fitting device. G. Anderson. No. 1,290,038; Jan. 7; v. 258; p. 6.
- Saw-fitting tool. G. Anderson. No. 1,314,729; Sept. 2; v. 266; p. 48.
- Saw-frame. T. Plunkett. No. 1,305,159; May 27; v. 262; p. 606.
- Saw-frame, Adjustable. V. Niewinski. No. 1,313,107; Aug. 12; v. 265; p. 271.
- Saw frame, Trimmer-. W. Z. Wilkinson. No. 1,323,138; Nov. 25; v. 268; p. 689.
- Saw-gage. M. E. Hinkle. No. 1,297,689; Mar. 18; v. 260; p. 480.
- Saw-gage. V. Royle. No. 1,319,179; Oct. 21; v. 267; p. 377.
- Saw gage and jointer. L. A. Avery. No. 1,297,433; Mar. 18; v. 260; p. 426.
- Saw, Gin or lifter. P. H. Sweet. No. 1,308,967; July 8; v. 264; p. 204.
- Saw-guard. E. Harrold. No. 1,311,508; July 29; v. 264; p. 775.
- Saw-guard. H. F. Walters. No. 1,312,651; Aug. 12; v. 265; p. 182.
- Saw guide, Band-. H. Volz. No. 1,304,128; May 20; v. 262; p. 372.
- Saw guide, Band-. E. L. Wright. No. 1,322,743; Nov. 25; v. 268; p. 615.
- Saw-gummer. C. D. Helm. No. 1,313,238; Aug. 12; v. 265; p. 297.
- Saw-handle. P. C. Abbott. No. 1,324,712; Dec. 9; v. 269; p. 326.
- Saw-handle. J. D. Goss. No. 1,316,479; Sept. 16; v. 266; p. 392.
- Saw-handle. C. S. B. Henry. No. 1,301,436; Apr. 22; v. 261; p. 706.
- Saw-handle. L. A. Smith. No. 1,294,553; Feb. 18; v. 259; p. 434.
- Saw handle, Crosscut-. F. W. Cyphert. No. 1,318,481; Oct. 14; v. 267; p. 218.
- Saw-handle, Detachable. H. J. Peterson. No. 1,301,315; Apr. 22; v. 261; p. 683.
- Saw-handle fastener. G. E. Miller. No. 1,303,492; May 13; v. 262; p. 218.
- Saw-handle, Removable. W. B. Sullivan. No. 1,301,522; Apr. 22; v. 261; p. 722.
- Saw-jointer. F. M. Boulton. No. 1,307,234; June 17; v. 263; p. 437.
- Saw machine, Drag-. R. Relerson. No. 1,300,650; Apr. 15; v. 261; p. 506.
- Saw, Manually-operated circular. J. Hakanson and A. Weber. No. 1,299,831; Apr. 8; v. 261; p. 305.
- Saw, Motor-driven rail-. E. R. Packer. No. 1,326,285; Dec. 30; v. 269; p. 735.
- Saw mounting, Slasher-. W. T. Glenn. No. 1,311,387; July 29; v. 264; p. 753.
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- Saw, Portable. A. F. School. No. 1,309,781; July 15; v. 264; p. 393.
- Saw, Portable circular. W. Schmidbauer. No. 1,291,181; Jan. 14; v. 258; p. 304.
- Saw, Portable power-. J. F. Gorman. No. 1,323,465; Dec. 2; v. 269; p. 46.
- Saw, Pruning-. A. S. Carter. No. 1,310,904; July 22; v. 264; p. 630.
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- Saw, Rail-. G. H. Russell. No. 1,322,825; Nov. 25; v. 268; p. 630.
- Saw, Rail-. C. C. Zimmerman. No. 1,294,593; Feb. 18; v. 259; p. 444.
- Saw reconstruction. G. L. Blanchard. No. 1,306,741; June 17; v. 263; p. 347.
- Saw-rolling machine. J. O. Blackwell. No. 1,290,491; Jan. 7; v. 258; p. 115.
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- Saw-set. J. A. Genova. No. 1,315,222; Sept. 9; v. 266; p. 147.
- Saw-set. W. S. Jacobson. No. 1,326,735; Dec. 30; v. 269; p. 820.
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- Saw-set. T. I. Moen. No. 1,317,807; Oct. 7; v. 267; p. 28.
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- Saw-set. J. V. Sultzman. No. 1,323,656; Dec. 2; v. 269; p. 81.
- Saw setting and filing tool. H. Hilton. No. 1,297,565; Mar. 18; v. 260; p. 453.
- Saw setting and sharpening machine. R. Asmondis. No. 1,311,308; July 29; v. 264; p. 738.
- Saw-setting machine. C. A. Erlandson. No. 1,294,782; Feb. 18; v. 258; p. 488.
- Saw-sharpening machine. J. W. Moody. No. 1,323,085; Nov. 25; v. 268; p. 679.
- Saw, Stump-. C. J. Peacock. No. 1,291,630; Jan. 14; v. 258; p. 408.
- Saw teeth, Adjustment for inserted milling. H. S. Hunter. No. 1,295,171; Feb. 25; v. 259; p. 600.
- Saw-teeth, Machine for setting. J. L. Walker. No. 1,321,344; Nov. 11; v. 268; p. 250.
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- Saw-tooth, Insertible. W. P. Smith. No. 1,294,554; Feb. 18; v. 259; p. 434.
- Saw-tooth gage. R. Hagadone. No. 1,317,873; Oct. 7; v. 267; p. 40.
- Saw, Wood-. M. P. Herres. No. 1,324,117; Dec. 9; v. 269; p. 212.
- Saws, Adjustable guide for band-. J. W. Causey and A. Harvey. No. 1,311,593; July 29; v. 264; p. 791.
- Saws, Attachment for heading. J. A. Stauber. No. 1,324,325; Dec. 9; v. 269; p. 252.
- Saws, Automatic spark-arrester for. J. T. Johnson. No. 1,312,121; Aug. 5; v. 265; p. 51.
- Saws, Centering device for circular. I. Steenrod. No. 1,313,133; Aug. 12; v. 265; p. 276.
- Saws, Handle for one-man crosscut-. W. M. Ruggles. No. 1,312,425; Aug. 5; v. 265; p. 107.
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- Sawing attachment. A. Sparing. No. 1,323,923; Dec. 2; v. 269; p. 132.
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- Sawing-machine. E. L. Dean. No. 1,326,713; Dec. 30; v. 269; p. 815.
- Sawing-machine. F. M. Easton. No. 1,312,964; Aug. 12; v. 265; p. 243.
- Sawing-machine. J. J. Keon. No. 1,318,324; Oct. 7; v. 267; p. 127.
- Sawing-machine. C. E. Myers. No. 1,314,891; Sept. 2; v. 266; p. 77.
- Sawing-machine. C. J. Weborg. No. 1,298,270; Mar. 25; v. 260; p. 630.
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- Sawmill, Portable. C. S. Broomhall. No. 1,320,197; Oct. 28; v. 267; p. 591.
- Sawdust-conveying attachment. P. F. Gurgel. No. 1,321,031; Nov. 4; v. 268; p. 127.
- Scabbard. C. F. Smith. No. 1,319,494; Oct. 21; v. 267; p. 437.
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- Scale, Weighing-. J. R. Methven. No. 1,290,278; Jan. 7; v. 258; p. 64.
- Scale, Weighing-. W. C. Pritchard. No. 1,299,224; Apr. 1; v. 261; p. 138.
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- School-chair. C. I. Lattig. No. 1,298,519; Mar. 25; v. 260; p. 684.
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- Scissors and shears. E. Koehler. No. 1,293,122; Feb. 4; v. 259; p. 35.
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- Scow, Dumping-. H. W. Stork. No. 1,319,977; Oct. 28; v. 267; p. 551.
- Scow, Fish-. W. Cook. No. 1,301,390; Apr. 22; v. 261; p. 698.
- Scrap-winding reel. H. B. Sherman. No. 1,312,057; Aug. 5; v. 265; p. 38.
- Scraper. T. F. Ball. No. 1,300,551; Apr. 15; v. 261; p. 487.
- Scraper. S. C. Fredson. No. 1,311,338; July 29; v. 264; p. 743.
- Scraper. H. B. Germeshausen. No. 1,296,789; Mar. 11; v. 260; p. 255.
- Scraper. J. H. Hartmann. No. 1,292,461; Jan. 28; v. 258; p. 662.
- Scraper. J. W. McLeod. No. 1,322,033; Nov. 18; v. 268; p. 430.
- Scraper. R. P. McNeil. No. 1,312,128; Aug. 5; v. 265; p. 52.
- Scraper. B. R. and S. J. Purviance. No. 1,325,880; Dec. 23; v. 269; p. 623.
- Scraper. W. Wing. No. 1,317,059; Sept. 23; v. 266; p. 549.
- Scraper and leveler, Earth. H. A. Lage. No. 1,296,295; Mar. 4; v. 260; p. 109.
- Scraper and tamper, Shot-hole. J. H. Bitz. No. 1,302,127; Apr. 29; v. 261; p. 868.
- Scraper, Bowl-. O. Spahr. No. 1,325,540; Dec. 23; v. 269; p. 560.
- Scraper, Disk-. A. A. Rodgers. No. 1,306,629; June 10; v. 263; p. 294.
- Scraper, Floor-. C. Tacy. No. 1,311,538; July 29; v. 264; p. 782.
- Scraper, Foot-. J. K. Daniels. No. 1,298,300; Mar. 25; v. 260; p. 637.
- Scraper for belts. F. A. Goodykoontz. No. 1,299,324; Apr. 1; v. 261; p. 161.
- Scraper, Hand-hole. G. P. Brown. No. 1,308,221; July 1; v. 264; p. 39.
- Scraper, Hand-hole. G. P. Brown. No. 1,308,222; July 1; v. 264; p. 40.
- Scraper, Ice-cream. W. L. Daly. No. 1,316,428; Sept. 16; v. 266; p. 383.
- Scraper, Road-. P. E. Clark. No. 1,290,088; Jan. 7; v. 258; p. 18.
- Scraper, Road-. D. H. Winslow. No. 1,297,430; Mar. 18; v. 260; p. 425.
- Scraper, Self-loading. H. M. Conner. No. 1,326,325; Dec. 30; v. 269; p. 742.
- Scraper, Tube-. H. W. Taylor. No. 1,323,123; Nov. 25; v. 268; p. 686.
- Scraper, Wheeled. R. L. Pfeil. No. 1,293,536; Feb. 4; v. 259; p. 131.
- Scrapping and excavating apparatus. J. E. Redmond. (Reissue.) No. 1,471; Aug. 19; v. 265; p. 433.
- Scrapping device. H. J. Schneider. No. 1,297,502; Mar. 18; v. 260; p. 440.
- Scrapping vegetable-stalks, Machine for. T. Villamor. No. 1,314,100; Aug. 26; v. 265; p. 509.
- Scratch-gage. J. Lippert. No. 1,316,584; Sept. 23; v. 266; p. 461.
- Screen: See—
- Disappearing window-screen.
- Fire-screen.
- Fly-screen.
- Gravel-screen.
- Headlight-screen.
- Hospital-screen.
- Inclined screen.
- Metal screen.
- Photomechanical screen.
- Picture-screen.
- Projecting-screen.
- Roller-screen.
- Rolling screen.
- Rotary screen.
- Wall-screen.
- Weather-screen.
- Window-screen.
- Screen. F. E. Johnson. No. 1,312,545; Aug. 12; v. 265; p. 160.
- Screen. C. J. Rothermel. No. 1,314,219; Aug. 26; v. 265; p. 532.
- Screen. C. S. Smith. No. 1,310,305; July 15; v. 264; p. 488.
- Screen. A. L. and J. M. Stone. No. 1,308,998; July 8; v. 264; p. 210.
- Screen. T. J. Sturtevant. No. 1,314,547; Sept. 2; v. 266; p. 13.
- Screen and elevator, Combined. E. E. Carpenter. No. 1,318,264; Oct. 7; v. 267; p. 116.
- Screen and ventilator, Combination. H. L. Thomas. No. 1,302,729; May 6; v. 262; p. 47.
- Screen and window. J. F. Hankammer. No. 1,325,089; Dec. 16; v. 269; p. 458.
- Screen attachment. W. F. Piller. No. 1,306,715; June 17; v. 263; p. 343.
- Screen construction. W. N. Cropper. No. 1,307,726; June 24; v. 263; p. 559.
- Screen, curtain, or like article. T. L. Richardson. No. 1,309,488; July 8; v. 264; p. 301.
- Screen-curtain-protecting attachment. V. McKirahan. No. 1,300,984; Apr. 15; v. 261; p. 578.
- Screen for stone, slag, or the like. D. B. Hoover. No. 1,314,194; Aug. 26; v. 265; p. 526.
- Screens for use in producing half-tone negatives. W. R. B. Larson. No. 1,307,824; June 24; v. 263; p. 578.
- Screen-frame corner-fastener. R. J. Burhen. No. 1,301,812; Apr. 29; v. 261; p. 809.
- Screen-hanger. H. L. and S. A. Agee. No. 1,324,768; Dec. 9; v. 269; p. 337.
- Screen, Rolling. P. Schnurr. No. 1,317,040; Sept. 23; v. 266; p. 545.
- Screen-sash. G. W. Conover. No. 1,308,625; July 1; v. 264; p. 113.
- Screens, Device for forming. C. R. Edwards. No. 1,323,621; Dec. 2; v. 269; p. 74.
- Screens, Washer for well. J. O. Mack. No. 1,305,914; June 3; v. 263; p. 129.
- Screening apparatus. J. E. Yernaux. No. 1,312,664; Aug. 12; v. 265; p. 184.
- Screening device. W. Matthes. No. 1,314,826; Sept. 2; v. 266; p. 66.
- Screening-machine. J. W. Bell. No. 1,291,371; Jan. 14; v. 258; p. 347.
- Screening-machine. J. A. Coyle and C. H. Roth. No. 1,319,925; Oct. 28; v. 267; p. 541.
- Screw-adjusting means, Temper-. C. R. Polen. No. 1,317,101; Sept. 23; v. 266; p. 557.
- Screw-assembling machine, Automatic. C. A. Wickstrom. No. 1,319,740; Oct. 28; v. 267; p. 506.
- Screw-cap container. H. M. Svebilus. No. 1,319,432; Oct. 21; v. 267; p. 425.
- Screw-cap lock. C. A. Swanson. No. 1,290,406; Jan. 7; v. 258; p. 94.
- Screw, Capstan-. G. A. Moore. No. 1,297,222; Mar. 11; v. 260; p. 352.
- Screw-clamp. F. G. Marbach. No. 1,319,717; Oct. 28; v. 267; p. 501.
- Screw clamp or gripping device. A. G. Strathern. No. 1,322,370; Nov. 18; v. 268; p. 493.
- Screw-clamp, Retaining. J. A. and E. E. Sowell. No. 1,299,253; Apr. 1; v. 261; p. 145.
- Screw-contact device. R. B. Benjamin. No. 1,290,053; Jan. 7; v. 258; p. 10.
- Screw-driver. P. P. Andrews. No. 1,325,070; Dec. 16; v. 269; p. 454.
- Screw-driver. B. M. Berntsen. No. 1,311,147; July 22; v. 264; p. 675.
- Screw-driver. J. Sontheimer. No. 1,325,383; Dec. 16; v. 269; p. 513.
- Screw-driver, Angle. P. Niewiarowski. No. 1,320,488; Nov. 4; v. 268; p. 24.
- Screw-driving machine. S. K. Brown. No. 1,320,375; Nov. 4; v. 268; p. 4.
- Screw-extractor. C. A. Speirs. No. 1,310,510; July 22; v. 264; p. 557.
- Screw-jack. H. L. Ewing. No. 1,298,316; Mar. 25; v. 260; p. 640.
- Screw, Jack-. V. Malen. No. 1,325,484; Dec. 16; v. 269; p. 531.
- Screw-machine. A. W. F. Stenzel. No. 1,318,510; Oct. 14; v. 267; p. 224.
- Screw-machine attachment. H. Bamberger. No. 1,303,152; May 6; v. 262; p. 129.
- Screw-machine, Automatic. H. O. Hammer. No. 1,324,249; Dec. 9; v. 269; p. 237.
- Screw-machine, Automatic multiple-spindle. A. E. Drissner, F. P. Glosch, E. C. Henn, O. A. Smith, and R. Stern. No. 1,320,609; Nov. 4; v. 268; p. 47.
- Screw or bolt, One-way. A. E. Miller and C. E. Anable. No. 1,312,409; Aug. 5; v. 265; p. 104.
- Screw or like article. J. A. Costuma. No. 1,296,165; Mar. 4; v. 260; p. 81.
- Screw, Self-locking. O. C. Rixson. No. 1,310,213; July 15; v. 264; p. 471.
- Screw-spike. E. C. Holmes. No. 1,294,268; Feb. 11; v. 259; p. 332.
- Screw-tap support. W. H. McKenzie. No. 1,293,143; Feb. 4; v. 259; p. 39.
- Screw-thread gage. R. H. Parker. No. 1,307,451; June 24; v. 263; p. 510.
- Screw-thread, Self-locking. I. C. Woodward. No. 1,300,801; Apr. 15; v. 261; p. 539.
- Screw-threads by chasers, Device for cutting. E. M. Wildey. No. 1,307,104; June 17; v. 263; p. 414.
- Screw-threads by chasers, Device for cutting. E. M. Wildey. No. 1,313,568; Aug. 19; v. 265; p. 374.

- Screw-threads, Cutter or hob for milling. G. Richards. No. 1,306,855; June 17; v. 263; p. 368.
- Screw-threads, Cutter or hob for milling. G. Richards. No. 1,306,856; June 17; v. 263; p. 368.
- Screw-threads, Cutting. J. Becker. No. 1,318,045; Oct. 7; v. 267; p. 73.
- Screw-threads, Means applicable for use in milling. G. Richards and W. W. Beaumont. No. 1,295,063; Feb. 18; v. 259; p. 552.
- Screw-threads, Means applicable for use in milling. G. Richards. No. 1,304,906; May 27; v. 262; p. 559.
- Screw-threads, Tap for cutting. E. M. Wildey. No. 1,307,103; June 17; v. 263; p. 414.
- Screw-threaded element, Cooperating. V. A. Green. No. 1,325,669; Dec. 23; v. 269; p. 583.
- Screw-threaded fastening. C. F. Johnson. No. 1,300,275; Apr. 15; v. 261; p. 428.
- Screws, bolts, pins, &c., Producing. R. L. Wilcox. No. 1,325,067; Dec. 16; v. 269; p. 454.
- Screwing-die, Automatically-opening. H. P. Lavender. No. 1,309,141; July 8; v. 264; p. 238.
- Scriber. E. Tintanné. No. 1,301,621; Apr. 22; v. 261; p. 740.
- Scriber, Curved-line. T. Müller. No. 1,299,006; Apr. 1; v. 261; p. 90.
- Scrubbing and mopping machine, Floor. E. F. and F. M. Rogers. No. 1,310,296; July 15; v. 264; p. 486.
- Scrubbing and polishing machine. T. A. Smith. No. 1,296,868; Mar. 11; v. 260; p. 273.
- Scrubbing-machine. R. A. Dickinson. No. 1,294,881; Feb. 18; v. 259; p. 511.
- Sculpture, Sheet-material. A. J. Frueh. No. 1,317,016; Sept. 23; v. 266; p. 541.
- Scutcher. B. S. Summers. No. 1,313,841; Aug. 19; v. 265; p. 425.
- Scutching-machine pneumatic attachment. J. Hubler. No. 1,299,946; Apr. 8; v. 261; p. 330.
- Scuttle, Side. R. G. Cervin and B. Silfverling. No. 1,303,537; May 13; v. 262; p. 226.
- Scythe. J. Bradley. No. 1,297,074; Mar. 11; v. 260; p. 320.
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- Seal. W. T. Birdsall. No. 1,320,114; Oct. 28; v. 267; p. 576.
- Seal. M. H. Jackson. No. 1,306,905; June 17; v. 263; p. 377.
- Seal. W. Petry. No. 1,303,955; May 20; v. 262; p. 341.
- Seal. E. Reich. No. 1,324,566; Dec. 9; v. 269; p. 299.
- Seal. H. R. Rogers. No. 1,298,402; Mar. 25; v. 260; p. 657.
- Seal. C. J. Rothermel. No. 1,326,291; Dec. 30; v. 269; p. 736.
- Seal. W. B. Wood. No. 1,315,649; Sept. 9; v. 266; p. 223.
- Seal and fastener, Metal. A. J. Paroubek. No. 1,301,310; Apr. 22; v. 261; p. 682.
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- Seal-closure, Top and side. H. E. Townsend. No. 1,292,541; Jan. 28; v. 258; p. 682.
- Seal, Coping-joint. J. A. Lovely. No. 1,295,538; Feb. 25; v. 259; p. 685.
- Seal, Cover-. J. M. Hothersall. No. 1,295,032; Feb. 18; v. 259; p. 544.
- Seal for conduits. W. W. Wotherspoon. No. 1,294,744; Feb. 18; v. 259; p. 479.
- Seal, Frangible. M. Elmer. No. 1,297,452; Mar. 18; v. 260; p. 430.
- Seal-labeling machine, Bottle-. J. E. Johnson and C. H. Oslund. No. 1,300,408; Apr. 15; v. 261; p. 456.
- Seal-lock. H. W. Daggs. No. 1,313,270; Aug. 19; v. 265; p. 319.
- Seal-lock. J. MacKenzie. No. 1,326,761; Dec. 30; v. 269; p. 824.
- Seal-lock. F. W. Meegan. No. 1,317,805; Oct. 7; v. 267; p. 27.
- Seal-making machine. W. M. Ingram. No. 1,293,787; Feb. 11; v. 259; p. 220.
- Seal, Pipe-. J. C. Schrade. No. 1,301,010; Apr. 15; v. 261; p. 584.
- Seal, Sanitary can-end. A. Johnson. No. 1,323,596; Dec. 2; v. 269; p. 70.
- Seal, Shackle and bag. W. M. Brooks. No. 1,310,494; July 22; v. 264; p. 554.
- Seal-tag. P. and I. Philipsburg. No. 1,303,386; May 13; v. 262; p. 199.
- Sealed container. O. M. Otte. No. 1,316,460; Sept. 16; v. 266; p. 389.
- Sealed container to facilitate the opening thereof. C. G. Christie. No. 1,302,132; Apr. 29; v. 261; p. 869.
- Sealer, Envelop-. M. Panagabko. No. 1,290,649; Jan. 7; v. 258; p. 154.
- Sealing bottles and the like. L. P. Middleton. No. 1,294,820; Feb. 18; v. 259; p. 496.
- Sealing device. W. Gethman. No. 1,322,559; Nov. 25; v. 268; p. 581.
- Sealing fruit-jar device. T. J. Jackson. No. 1,320,863; Nov. 4; v. 268; p. 95.
- Sealing implement, Box-strap-. R. H. Norton and W. C. Fork. No. 1,322,723; Nov. 25; v. 268; p. 611.
- Sealing-machine. H. R. Bevier. No. 1,306,573; June 10; v. 263; p. 283.
- Sealing-machine. D. Marinsky. No. 1,309,147; July 8; v. 264; p. 239.
- Sealing-machine. W. E. Miller. No. 1,299,499; Apr. 8; v. 261; p. 229.
- Sealing-machine. H. E. Townsend. No. 1,291,662; Jan. 14; v. 258; p. 417.
- Sealing machine, Can-. J. C. Bowers. No. 1,306,168; June 10; v. 263; p. 207.
- Sealing machine for knockdown boxes and the like, Universal. J. Q. Leavitt. No. 1,299,358; Apr. 1; v. 261; p. 168.
- Sealing means for burial-caskets, &c. R. H. Almiroty. No. 1,306,457; June 10; v. 263; p. 263.
- Sealing means for doors, windows, and the like. F. W. Rubin. No. 1,311,775; July 29; v. 264; p. 825.
- Sealing mechanism. E. J. Brooks. No. 1,290,707; Jan. 7; v. 258; p. 168.
- Sealing-rings for covers, Forming. T. L. Taliaferro. No. 1,299,259; Apr. 1; v. 261; p. 146.
- Sealing-wax applicator. W. H. Ogden. No. 1,312,347; Aug. 5; v. 265; p. 91.
- Seam. W. G. Trotman. No. 1,311,927; Aug. 5; v. 265; p. 14.
- Seam-calking tool, Oakum. J. E. Gilmore. No. 1,296,948; Mar. 11; v. 260; p. 292.
- Seam for sewed articles. T. J. Hayes. No. 1,305,542; June 3; v. 263; p. 59.
- Seam-ripping device. J. H. Klenck. No. 1,315,312; Sept. 9; v. 266; p. 163.
- Seamer. F. D. Stowe. No. 1,306,449; June 10; v. 263; p. 261.
- Seamer, Multiple-spindle double. I. F. Warne and J. C. Taliaferro. No. 1,306,648; June 10; v. 263; p. 297.
- Seaming-machine. H. F. Schroeder. No. 1,325,210; Dec. 16; v. 269; p. 481.
- Scaplane or aeroplane. H. Bolas. No. 1,304,652; May 27; v. 262; p. 511.
- Search-light. K. Kleinert. No. 1,295,761; Feb. 25; v. 259; p. 736.
- Search-light apparatus. E. Granat. No. 1,303,656; May 13; v. 262; p. 248.
- Search-light, Boat-. C. F. L. Kaufmann. No. 1,292,475; Jan. 28; v. 258; p. 666.
- Search-light, Portable. J. W. Knoblock. No. 1,309,140; July 8; v. 264; p. 237.
- Search-lights, Shutter mechanism for. G. Rebor. No. 1,306,077; June 10; v. 263; p. 190.
- Searchlight. V. L. Caccese. No. 1,318,263; Oct. 7; v. 267; p. 116.
- Searchlight, Portable. J. W. Knoblock. No. 1,316,246; Sept. 16; v. 266; p. 348.
- Searchlight ventilation. E. A. Sperry. No. 1,318,701; Oct. 14; vol. 267; p. 260.
- Seat: See—
- |                            |                       |
|----------------------------|-----------------------|
| Adjustable seat            | Loom-seat.            |
| Automobile-seat.           | Motor-cycle seat.     |
| Automobile couch-seat.     | Motor-truck seat.     |
| Auxiliary seat.            | Reclining-seat.       |
| Baby-carriage spring-seat. | Spring-seat.          |
| Car-seat.                  | Toilet-seat.          |
| Carriage-seat.             | Vehicle-seat.         |
| Chair-seat.                | Vehicle folding seat. |
| Child's seat.              | Water-closet seat.    |
| Closet-seat.               | Window-seat.          |
| Folding seat.              |                       |
- Seat. G. N. Brunner. No. 1,315,086; Sept. 2; v. 266; p. 112.
- Seat. B. Schechter. No. 1,302,226; Apr. 29; v. 261; p. 887.
- Seat and bed, Combined. G. Harris. No. 1,309,520; July 8; v. 264; p. 307.
- Seat and desk, Adjustable. R. L. Leatherman and F. Pfrogner. No. 1,324,560; Dec. 9; v. 269; p. 298.
- Seat and desk, Combined. E. H. Stafford. No. 1,303,981; May 20; v. 262; p. 346.
- Seat attachment, Folding-. G. S. Stuart. No. 1,325,423; Dec. 16; v. 269; p. 520.
- Seat-back, Removable. F. E. Dewey. No. 1,292,270; Jan. 21; v. 258; p. 596.
- Seat-cover, Loose. R. W. Sikking. No. 1,326,216; Dec. 30; v. 269; p. 722.
- Seat-cushion. G. L. Chase. No. 1,303,852; May 20; v. 262; p. 322.
- Seat, Folding. A. Carlson. No. 1,321,009; Nov. 4; v. 268; p. 123.
- Seat for children, Auxiliary. A. A. Harris. No. 1,305,463; June 3; v. 263; p. 44.
- Seat for vehicles, Auxiliary. M. J. Hammers. No. 1,320,854; Nov. 4; v. 268; p. 93.
- Seat structure, Portable. W. H. Curtis. No. 1,301,107; Apr. 22; v. 261; p. 640.
- Seat structure, Upholstered. H. N. Pedersen. No. 1,306,619; June 10; v. 263; p. 292.
- Seat washer and stem. P. Mueller. No. 1,311,832; July 29; v. 264; p. 835.
- Seats, Back-rest for drivers'. A. H. Bates and A. A. Hobart. No. 1,315,810; Sept. 9; v. 266; p. 252.



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- Seats, Machine for upholstering chair-. J. Potter, J. De Long, and F. Pike. No. 1,314,430; Aug. 26; v. 265; p. 573.
- Secret-signaling system. H. W. Nichols. No. 1,325,574; Dec. 23; v. 269; p. 566.
- Sectional boiler. W. M. Mackay. No. 1,306,675; June 10; v. 263; p. 302.
- Sectional boiler. W. R. Stockwell. No. 1,317,461; Sept. 30; v. 266; p. 662.
- Sectional bull-wheel. R. B. Woodworth. No. 1,306,792; June 17; v. 263; p. 356.
- Sectional mold. W. M. Yeomans. No. 1,307,470; June 24; v. 263; p. 514.
- Sectional mold and locking means therefor. H. V. Lough. No. 1,320,015; Oct. 28; v. 267; p. 558.
- Sectional post. H. E. Newman. No. 1,321,237; Nov. 11; v. 268; p. 230.
- Sectional support. T. J. Morris. No. 1,312,861; Aug. 12; v. 265; p. 222.
- Securing means for separable members. C. M. Kolbenstetter. No. 1,308,906; July 8; v. 264; p. 193.
- Securing parts to their supports. Device for. B. D. Gray. No. 1,294,792; Feb. 18; v. 259; p. 490.
- Seed and fertilizer drill. Multiple. C. V. Pereda. No. 1,302,428; Apr. 29; v. 261; p. 926.
- Seed and preparing same for planting. H. D. Lingle. No. 1,319,157; Oct. 21; v. 267; p. 272.
- Seed-corn. Device for tying. C. M. Davis. No. 1,290,923; Jan. 14; v. 258; p. 245.
- Seed-corn drier. S. A. Holmes. No. 1,325,290; Dec. 16; v. 269; p. 496.
- Seed-corn hanger. E. F. Brown. No. 1,314,303; Aug. 26; v. 265; p. 548.
- Seed-cotton opener, cleaner, and feeder. W. D. McCoy. No. 1,318,215; Oct. 7; v. 267; p. 106.
- Seed-drill. N. Melland. No. 1,291,995; Jan. 21; v. 258; p. 529.
- Seed-drill attachment. D. H. Gilson. No. 1,292,306; Jan. 21; v. 258; p. 605.
- Seed-drill attachment. W. Staver. No. 1,293,568; Feb. 4; v. 259; p. 138.
- Seed grading and cleaning machine. M. M. Newkirk. No. 1,323,784; Dec. 2; v. 269; p. 105.
- Seed-package-filling-machine attachment. H. H. Williams. No. 1,301,346; Apr. 22; v. 261; p. 690.
- Seed-packets. Rack for. L. D. Kroff. No. 1,311,975; Aug. 5; v. 265; p. 23.
- Seed-pods or the like from stalks of plants. Means for separating. F. J. Leitch. No. 1,309,207; July 8; v. 264; p. 249.
- Seed-selector. Revolving. C. Kronenberg. No. 1,301,277; Apr. 22; v. 261; p. 675.
- Seed-tester. J. W. Lawton. No. 1,295,530; Feb. 25; v. 259; p. 683.
- Seed-tester. G. Smit. No. 1,303,827; May 13; v. 262; p. 280.
- Seed-treating apparatus. W. S. Chambers. No. 1,293,034; Feb. 4; v. 259; p. 14.
- Seeds. Apparatus for sowing. J. Hilton. No. 1,317,133; Sept. 23; v. 266; p. 563.
- Seeder. G. S. Jervis. No. 1,300,400; Apr. 15; v. 261; p. 454.
- Seeder. J. Lange. No. 1,298,738; Apr. 1; v. 261; p. 28.
- Seeder and fertilizer distributor. W. A. Ward. No. 1,303,136; May 6; v. 262; p. 126.
- Seeders and planters. Fender for. R. C. Mendenhall. No. 1,305,826; June 3; v. 263; p. 112.
- Seeding-machine. B. M. Steele. No. 1,305,500; June 3; v. 263; p. 51.
- Seeding-machine. H. W. Thomasson. No. 1,314,991; Sept. 2; v. 266; p. 95.
- Seesaw. F. I. Smith. No. 1,317,231; Sept. 30; v. 266; p. 617.
- Seesaw and merry-go-round. W. E. Hastings. No. 1,319,073; Oct. 21; v. 267; p. 356.
- Selne and trap. Combined minnow. J. L. Collins. No. 1,317,555; Sept. 30; v. 266; p. 680.
- Selecting system. J. H. Bell. No. 1,309,176; July 8; v. 264; p. 244.
- Selecting system. P. M. Rainey. No. 1,303,496; May 13; v. 262; p. 219.
- Selective switch. T. H. Nelson. No. 1,323,714; Dec. 2; v. 269; p. 92.
- Self-cleaning trap. Noiseless antisiphon. A. B. J. Sauerbrunn. No. 1,323,324; Dec. 2; v. 269; p. 19.
- Self-feeding container. E. A. Tannas. No. 1,313,613; Aug. 19; v. 265; p. 383.
- Self-leveling chair. J. Pakstas. No. 1,320,490; Nov. 4; v. 268; p. 25.
- Self-lifting jack. E. C. Rold. No. 1,315,335; Sept. 9; v. 266; p. 167.
- Self-locking container. A. Lewinson. No. 1,314,878; Sept. 2; v. 266; p. 75.
- Self-locking mat. S. G. Van Derbeck. No. 1,304,518; May 20; v. 262; p. 448.
- Self-locking safety device. H. F. Krantz. No. 1,292,805; Jan. 28; v. 258; p. 745.
- Self-lubricating spring. I. N. Wise. No. 1,325,431; Dec. 16; v. 269; p. 521.
- Self-reinforcing fabric. C. B. Tewksbury. No. 1,300,515; Apr. 15; v. 261; p. 479.
- Self-sealing trap. Sanitary. H. C. Odenkirk. No. 1,323,718; Dec. 2; v. 269; p. 93.
- Self-serving appliance. D. D. Sicher. No. 1,319,803; Oct. 28; v. 267; p. 518.
- Self-starting apparatus. F. O. Kilgore. No. 1,300,217; Apr. 8; v. 261; p. 389.
- Selvaige-trimmer. W. C. Stevens. No. 1,306,642; June 10; v. 263; p. 296.
- Selvaige-trimmer. R. S. Troegner. No. 1,319,366; Oct. 21; v. 267; p. 412.
- Semaphore and train-stop mechanism. Automatic pneumatic. F. D. Robb. No. 1,302,711; May 6; v. 262; p. 43.
- Semaphore-signal mechanism. G. Rekers. No. 1,297,969; Mar. 18; v. 260; p. 540.
- Semaphore-signal mechanism. G. Rekers. No. 1,297,970; Mar. 18; v. 260; p. 541.
- Semaphore. Street-. J. M. Walsh. No. 1,313,616; Aug. 19; v. 265; p. 384.
- Semisolid substances. Apparatus for dispensing. J. W. Kennedy. (Reissue.) No. 14,776; Dec. 23; v. 269; p. 674.
- Semitrailer and tractor therefor. J. B. Olds. No. 1,316,735; Sept. 23; v. 266; p. 490.
- Semiwood wheel. E. K. Baker. No. 1,321,000; Nov. 4; v. 268; p. 121.
- Semiwood wheel. E. K. Baker. No. 1,321,001; Nov. 4; v. 268; p. 121.
- Sensitizing-medium-changing mechanism. C. M. Williamson. No. 1,293,095; Feb. 4; v. 259; p. 144.
- Sensitized mediums. Development of exposed. E. B. Downing. No. 1,302,777; May 6; v. 262; p. 56.
- Separable fastener. L. T. Bulley. (Reissue.) No. 14,595; Feb. 25; v. 259; p. 753.
- Separable joint. L. I. Beckwith. No. 1,321,802; Nov. 18; v. 268; p. 387.
- Separable wheel. J. D. and M. V. B. Langdon. No. 1,301,716; Apr. 22; v. 261; p. 759.
- Separating and grading material. Process and apparatus for. H. M. Sutton and W. L. and E. G. Steele. No. 1,315,881; Sept. 9; v. 266; p. 266.
- Separating and recovering domestic refuse. Apparatus for. D. R. Bryan. No. 1,290,895; Jan. 14; v. 258; p. 237.
- Separating apparatus. C. C. Ruprecht. No. 1,291,170; Jan. 14; v. 258; p. 301.
- Separating device. N. A. Helmer. No. 1,304,681; May 27; v. 262; p. 517.
- Separating fibrous and non-fibrous materials in food products. Method and apparatus for. L. C. Gehring. No. 1,314,864; Sept. 2; v. 266; p. 72.
- Separating finely-divided materials. Process and apparatus for. W. A. Schmidt. No. 1,298,409; Mar. 25; v. 260; p. 658.
- Separating machine. Cotton-seed-. J. W. Jones. No. 1,315,775; Sept. 9; v. 266; p. 246.
- Separating solids from suspension in liquids and apparatus therefor. J. W. Gee. No. 1,312,316; Aug. 5; v. 265; p. 86.
- Separating substances in suspension by washing. B. Schwerin. (Reissue.) No. 14,583; Jan. 7; v. 258; p. 202.
- Separation of adsorbed substances. B. Schwerin. No. 1,326,105; Dec. 23; v. 269; p. 664.
- Separation of substances of different specific gravities. Such as fine coal or ores. Apparatus for. J. M. Draper. No. 1,323,174; Nov. 25; v. 268; p. 697.
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- Air-separator.
  - Battery-separator.
  - Centrifugal separator.
  - Coin-separator.
  - Cream-separator.
  - Dust-separator.
  - Electric separator.
  - Fruit-separator.
  - Grain-separator.
  - Magnetic separator.
  - Magnetic drum-separator.
  - Mineral-separator.
  - Nut sheller and separator.
  - Oil and barley separator.
  - Oil-separator.
  - Oil and water separator.
  - Ore-separator.
  - Paper-cup separator.
  - Pea-separator.
  - Pneumatic separator.
  - Powder-separator.
  - Precious-metal separator.
  - Steam-separator.
  - Storage-battery separator.
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  - Tooth-separator.
  - Turpentine-separator.
- Separator. G. H. Fraser. No. 1,317,014; Sept. 23; v. 266; p. 540.
- Separator. G. H. Fraser. No. 1,317,015; Sept. 23; v. 266; p. 541.
- Separator. M. Gants and O. W. Brown. No. 1,290,732; Jan. 7; v. 258; p. 174.
- Separator. J. Good. No. 1,306,003; June 10; v. 263; p. 176.
- Separator. A. C. Gough. No. 1,311,811; July 29; v. 264; p. 832.
- Separator. H. B. Lindsley. No. 1,292,820; Jan. 28; v. 258; p. 749.
- Separator. N. Schwartz. No. 1,315,163; Sept. 2; v. 266; p. 126.
- Separator. H. H. Smith. No. 1,308,920; July 8; v. 264; p. 195.
- Separator and cleaner. Boll-cotton. R. H. Purnell and R. F. Bridges. No. 1,304,804; May 27; v. 262; p. 540.
- Separator-fastener. P. R. Gruher and M. Seliz. No. 1,311,812; July 29; v. 264; p. 832.

- Separator-plate. J. W. Ketler. No. 1,297,478; Mar. 18; v. 260; p. 434.
- Separator-slicing machine. T. A. Willard. No. 1,297,767; Mar. 18; v. 260; p. 498.
- Separators. Speed-indicator for. E. Hautala. No. 1,308,671; July 1; v. 264; p. 121.
- Series-multiple control. E. F. W. Alexanderson. No. 1,300,542; Apr. 15; v. 261; p. 485.
- Service-box. R. H. Mueller. No. 1,311,834; July 29; v. 264; p. 835.
- Service-table. J. W. Keevil. No. 1,318,387; Oct. 14; v. 267; p. 200.
- Service-switch. G. E. Palmer. No. 1,299,602; Apr. 8; v. 261; p. 252.
- Serving apparatus. C. E. Anable. No. 1,299,413; Apr. 8; v. 261; p. 209.
- Serving-bar. J. D. Economy. No. 1,290,137; Jan. 7; v. 258; p. 30.
- Serving outfit. E. McDonald. No. 1,293,492; Feb. 4; v. 259; p. 120.
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- Set, Intercommunicating. G. M. O. Jenkins. No. 1,298,217; Mar. 25; v. 260; p. 619.
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- Sewing-machines for threading, Device for positioning loops of, S. G. Tate. No. 1,316,400; Sept. 16; v. 266; p. 377.
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- Sewing-machines, Hemmer for, J. E. Chalman. No. 1,305,253; June 3; v. 263; p. 4.
- Sewing-machines, Looper-carrier for, L. Onderdonk. No. 1,291,094; Jan. 14; v. 258; p. 285.
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- Sewing-machines, Needle-guard attachment for, F. P. Gardner. No. 1,307,295; June 17; v. 263; p. 448.
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- Sewing-machines, Presser-foot for, J. Berger, Jr. No. 1,321,502; Nov. 11; v. 268; p. 280.
- Sewing-machines, Presser-foot for, N. D. Clark. No. 1,316,426; Sept. 16; v. 266; p. 382.
- Sewing-machines, Presser-foot mechanism for, A. H. De Voe. No. 1,306,752; June 17; v. 263; p. 349.
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- Sewing machines, Shoe-drying attachment for sole, J. Radiat. No. 1,320,665; Nov. 4; v. 268; p. 57.
- Sewing-machines, Shuttle-guard and release device for, H. Corral. No. 1,291,419; Jan. 14; v. 258; p. 359.
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- Sewing-machines, Stitch-forming mechanism for, W. L. Barron and F. E. Osol. No. 1,290,048; Jan. 7; v. 258; p. 8.
- Sewing-machines, Stitch-forming mechanism for, R. R. Hughes, Jr. No. 1,326,593; Dec. 30; v. 269; p. 793.
- Sewing-machines, Stitch-forming mechanism for, C. W. Thomas. No. 1,304,627; May 27; v. 262; p. 507.
- Sewing-machines, Stitch-forming mechanism for chain-stitch, A. F. Fifield. No. 1,316,022; Sept. 16; v. 266; p. 306.
- Sewing-machines, Take-up mechanism for, J. R. Moffatt. No. 1,313,721; Aug. 19; v. 265; p. 403.
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- Sewing-machines, Thread-cutting mechanism for, A. R. Wood. No. 1,291,335; Jan. 14; v. 258; p. 339.
- Sewing-machines, Thread-cutting mechanism for, A. R. Wood. No. 1,325,707; Dec. 23; v. 269; p. 590.
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- Sewing-machines, Trimming mechanism for, J. Berger. No. 1,296,455; Mar. 4; v. 260; p. 143.
- Sewing-machines, Trimming mechanism for, J. R. Moffatt. No. 1,312,413; Aug. 5; v. 265; p. 105.
- Sewing-machines, Work-presenting mechanism for blindstitch, T. J. Hayes. No. 1,319,218; Oct. 21; v. 267; p. 384.
- Sewing mechanism, Rotary-hook, R. K. Hohmann. No. 1,299,468; Apr. 8; v. 261; p. 222.
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- Shade and curtain hanger, F. C. Palosky and S. Zimmermann. No. 1,323,546; Dec. 2; v. 269; p. 61.
- Shade and curtain hanger, Combined, J. Ferko. No. 1,299,568; Apr. 8; v. 261; p. 245.

- Shade and curtain holder. J. H. Blake. No. 1,302,292; Apr. 29; v. 261; p. 899.
- Shade and curtain holder. H. F. Mayse. No. 1,297,886; Mar. 18; v. 260; p. 522.
- Shade and reflector. H. G. Lewis. No. 1,322,910; Nov. 25; v. 268; p. 646.
- Shade-bracket. M. M. Koval. No. 1,306,114; June 10; v. 263; p. 196.
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- Shade-roller and curtain-holder, Adjustable. J. L. Klinkin. No. 1,297,574; Mar. 18; v. 260; p. 455.
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- Shear mechanism. O. M. Hoch. No. 1,321,039; Nov. 4; v. 268; p. 129.
- Shear mechanism. L. Jones. No. 1,312,182; Aug. 5; v. 265; p. 62.
- Shear mechanism. W. A. Lorenz. No. 1,326,460; Dec. 30; v. 269; p. 678.
- Shears—  
Animal-shears. Structural-shape shears.  
Pruning-shears.
- Shears. A. Anderson. No. 1,299,100; Apr. 1; v. 261; p. 111.
- Shears. T. J. Pegley and G. O. Leopold. No. 1,322,099; Nov. 18; v. 268; p. 441.
- Shears. R. L. Herman. No. 1,321,918; Nov. 18; v. 268; p. 409.
- Shears. E. Koehler. No. 1,324,598; Dec. 9; v. 269; p. 305.
- Shears and scissors. E. J. Arnold. No. 1,299,104; Apr. 1; v. 261; p. 112.
- Shears and stripper, Flower. F. J. Bertrand. No. 1,322,085; Nov. 18; v. 268; p. 439.
- Shears, Attachment for. W. G. Heimerdinger. No. 1,321,825; Nov. 18; v. 268; p. 391.
- Shears, Lubricating device for. T. S. Crane. No. 1,303,463; May 13; v. 262; p. 212.
- Shears or scissors. N. B. Thompson. No. 1,315,435; Sept. 9; v. 266; p. 185.
- Shearing, cutting, nipping, punching, and the like tool. L. Deop. No. 1,317,758; Oct. 7; v. 267; p. 19.
- Shearing-machine. W. Rachals. No. 1,298,783; Apr. 1; v. 261; p. 39.
- Shearing machine, Sheep-. W. R. Benson. No. 1,318,831; Oct. 14; v. 267; p. 284.
- Shearing mechanism. V. E. Edwards. No. 1,304,034; May 20; v. 262; p. 355.
- Sheet-carrying mechanism. J. G. Hardie. No. 1,310,618; July 22; v. 264; p. 577.
- Sheet-collating. L. A. Wernery. No. 1,314,776; Sept. 2; v. 266; p. 56.
- Sheet collecting and associating mechanism. H. M. Barber. No. 1,318,043; Oct. 7; v. 267; p. 73.
- Sheet collecting and associating mechanism. H. M. Barber. No. 1,325,974; Dec. 23; v. 269; p. 640.
- Sheet collecting and associating mechanism. H. M. Barber. No. 1,325,975; Dec. 23; v. 269; p. 640.
- Sheet collecting and associating mechanism. H. M. Barber. No. 1,325,976; Dec. 23; v. 269; p. 640.
- Sheet collecting, associating and folding machine. H. M. Barber. No. 1,305,989; June 10; v. 263; p. 173.
- Sheet, Colored composition. R. P. Perry. No. 1,296,114; Mar. 4; v. 260; p. 68.
- Sheet-control mechanism. Note-. W. A. Watson. No. 1,290,437; Jan. 7; v. 258; p. 102.
- Sheet construction, Trussed-. J. O. Madison. No. 1,302,822; May 6; v. 262; p. 65.
- Sheet-cutter. C. H. Hartman. No. 1,306,009; June 10; v. 263; p. 177.
- Sheet-cutting machines, Counting devices for web-. G. F. McAdams. No. 1,321,468; Nov. 11; v. 268; p. 274.
- Sheet-delivering device. E. P. Jennings, Jr. No. 1,303,326; May 13; v. 262; p. 188.
- Sheet delivery, Fly-. A. H. Smith. No. 1,324,437; Dec. 9; v. 269; p. 274.
- Sheet-delivery mechanism. M. A. Droitcour. No. 1,303,040; May 6; v. 262; p. 107.
- Sheet-delivery mechanism. M. A. Droitcour. No. 1,303,041; May 6; v. 262; p. 107.
- Sheet-feeder. C. W. Harrold. No. 1,312,539; Aug. 12; v. 265; p. 159.
- Sheet-feeder. C. W. Harrold. No. 1,312,540; Aug. 12; v. 265; p. 159.
- Sheet-feeder, Pneumatic. C. E. Christophel. No. 1,304,262; May 20; v. 262; p. 398.

- Sheet feeding and controlling apparatus. B. F. Upham. No. 1,305,181; May 27; v. 262; p. 610.
- Sheet-feeding machine. C. E. Christophel. No. 1,320,203; Oct. 28; v. 267; p. 592.
- Sheet-feeding machine. W. W. McCain. No. 1,297,707; Mar. 18; v. 260; p. 484.
- Sheet-feeding machine. R. Meredith. No. 1,321,659; Nov. 11; v. 268; p. 309.
- Sheet-feeding mechanism. M. J. Milmo. No. 1,315,739; Sept. 9; v. 266; p. 239.
- Sheet-feeding mechanism. I. F. Niles. No. 1,312,865; Aug. 12; v. 265; p. 223.
- Sheet-feeding mechanism. H. D. Penney and G. F. Russ. No. 1,314,359; Aug. 26; v. 265; p. 559.
- Sheet-feeding mechanism. J. P. Petty. No. 1,303,592; May 13; v. 262; p. 236.
- Sheet-feeding mechanism, Automatic. F. M. Conran. No. 1,301,656; Apr. 22; v. 261; p. 747.
- Sheet-feeding mechanism, Automatic. F. M. Conran. No. 1,301,799; Apr. 22; v. 261; p. 777.
- Sheet-form material, Machine for cutting. C. B. Gray. No. 1,313,481; Aug. 19; v. 265; p. 358.
- Sheet-glass, Apparatus for drawing. J. H. Kendig. No. 1,305,288; June 3; v. 263; p. 11.
- Sheet-glass, Manufacturing. E. Hopkinson. No. 1,305,286; June 3; v. 263; p. 11.
- Sheet-handling implement. J. C. Fuchs and O. W. Cook. No. 1,302,028; Apr. 29; v. 261; p. 850.
- Sheet-handling machine. H. M. Barber. No. 1,291,720; Jan. 21; v. 258; p. 460.
- Sheet-handling machine. S. G. Goss. No. 1,311,886; Aug. 5; v. 265; p. 7.
- Sheet holder and display-rack, Portable sample-. J. C. Dawson. No. 1,292,720; Jan. 28; v. 258; p. 726.
- Sheet-iron plate. B. Abrahamsen. No. 1,312,937; Aug. 12; v. 265; p. 237.
- Sheet-lathing. W. Geraerds. No. 1,311,441; July 29; v. 264; p. 763.
- Sheet material and treating same. J. J. Byers. No. 1,325,075; Dec. 16; v. 269; p. 456.
- Sheet material, Composite. A. W. Keen and P. Frigeri. No. 1,320,149; Oct. 28; v. 267; p. 583.
- Sheet material, Machine and making reinforced. M. R. Harrison. No. 1,325,091; Dec. 16; v. 269; p. 459.
- Sheet material, Machine for cutting. R. F. McFeely. No. 1,317,716; Oct. 7; v. 267; p. 11.
- Sheet material, Method and machine for the manufacture of reinforced. G. Magnasco. No. 1,316,845; Sept. 23; v. 266; p. 509.
- Sheet metal. A. E. Gillespie. No. 1,306,690; June 17; v. 263; p. 338.
- Sheet metal, Apparatus for forming. J. H. Bickley. No. 1,306,166; June 10; v. 263; p. 206.
- Sheet metal, Apparatus for the manufacture of stabbed. T. Gare. No. 1,313,809; Aug. 19; v. 265; p. 419.
- Sheet-metal article. A. F. Anderson. No. 1,299,415; Apr. 8; v. 261; p. 209.
- Sheet-metal-bending machine. C. P. Buck. No. 1,317,264; Sept. 30; v. 266; p. 624.
- Sheet-metal blanks, Manufacture of. F. H. Hulscher. No. 1,301,700; Apr. 22; v. 261; p. 757.
- Sheet-metal bolt-anchor. J. E. Ogden. No. 1,305,000; May 27; v. 262; p. 576.
- Sheet-metal construction. R. G. Pilkington. No. 1,295,368; Feb. 25; v. 259; p. 644.
- Sheet-metal container. J. M. Hotherhall. No. 1,320,757; Nov. 4; v. 268; p. 75.
- Sheet-metal container. C. H. Draper. No. 1,303,175; May 6; v. 262; p. 133.
- Sheet-metal covering. T. D. Miller. No. 1,298,541; Mar. 25; v. 260; p. 688.
- Sheet-metal-cutting machine. C. B. Gray. No. 1,298,930; Apr. 1; v. 261; p. 72.
- Sheet-metal-cutting machine. H. H. Spang. No. 1,314,286; Aug. 26; v. 265; p. 545.
- Sheet-metal device. C. Eisler. No. 1,309,616; July 15; v. 264; p. 363.
- Sheet-metal doubler. W. J. Stoop. No. 1,295,384; Feb. 25; v. 259; p. 648.
- Sheet-metal drawer, Knockdown. H. D. Herpst and O. J. Larson. No. 1,290,743; Jan. 7; v. 258; p. 177.
- Sheet-metal-edging machine. A. J. Townsend. No. 1,292,157; Jan. 21; v. 258; p. 570.
- Sheet-metal end structure for railway-cars. W. P. Murphy. No. 1,311,572; July 29; v. 264; p. 787.
- Sheet metal, Forming. F. M. Opitz. No. 1,316,636; Sept. 23; v. 266; p. 471.
- Sheet-metal-forming machine. A. J. Townsend. No. 1,292,158; Jan. 21; v. 258; p. 570.
- Sheet-metal forms, Device for forming, assembling, and holding. W. S. Hamm and W. F. Stewart. No. 1,309,088; July 8; v. 264; p. 228.
- Sheet-metal forms, Process and apparatus for forming. J. H. and J. L. Auble. No. 1,311,368; July 29; v. 264; p. 749.
- Sheet metal, Lacquering. T. L. Taliaferro. No. 1,312,815; Aug. 12; v. 265; p. 214.
- Sheet-metal molding. A. and L. B. Tischler. No. 1,315,260; Sept. 9; v. 266; p. 154.
- Sheet-metal-pipe joint. P. F. Flagg. No. 1,295,295; Feb. 25; v. 259; p. 628.
- Sheet-metal plates, Drying apparatus for. C. Wagner and A. Hormel. No. 1,293,261; Feb. 4; v. 259; p. 67.
- Sheet-metal presses, Delivery means for. G. W. Berry. No. 1,311,588; July 29; v. 264; p. 790.
- Sheet-metal receptacle. M. Brandenstein. No. 1,290,061; Jan. 7; v. 258; p. 11.
- Sheet-metal receptacles, Apparatus for automatically forming and connecting hinge members on lids and bodies of. G. W. Berry. No. 1,311,587; July 29; v. 264; p. 790.
- Sheet-metal receptacles, Hinging of. G. W. Berry. No. 1,317,420; Sept. 30; v. 266; p. 653.
- Sheet-metal receptacles, Hinging of. G. W. Berry. No. 1,317,421; Sept. 30; v. 266; p. 654.
- Sheet-metal replayer. R. G. Brown and J. E. Strietmeier. No. 1,320,732; Nov. 4; v. 268; p. 70.
- Sheet metal, Stamping-machine for cutting out articles from. T. H. Wilson. No. 1,320,189; Oct. 28; v. 267; p. 590.
- Sheet-metal structure and the manufacture thereof, Hollow. T. Barrow. No. 1,312,152; Aug. 5; v. 265; p. 56.
- Sheet-metal tank. L. W. Wyman. No. 1,319,826; Oct. 28; v. 267; p. 522.
- Sheet-metal tub, Portable circular. C. F. Pfalzgraf. No. 1,324,432; Dec. 9; v. 269; p. 273.
- Sheet metal, Vehicle-wheel section of. T. E. Murray. No. 1,316,382; Sept. 16; v. 266; p. 374.
- Sheet-metal wheel. J. Ledwinka. No. 1,311,979; Aug. 5; v. 265; p. 24.
- Sheet-metal wheel and the like and making same. A. Benson. No. 1,303,236; May 13; v. 262; p. 173.
- Sheet-metal wheel construction. J. E. Strietmeier. No. 1,296,873; Mar. 11; v. 260; p. 274.
- Sheet-metal-working tool. H. R. Kennedy. No. 1,311,353; July 29; v. 264; p. 746.
- Sheet-metal-working tool. H. R. Kennedy. No. 1,317,627; Sept. 30; v. 266; p. 694.
- Sheet, Multiple form-. A. S. Gilman. No. 1,301,834; Apr. 29; v. 261; p. 813.
- Sheet of fibrous material and producing same, Impregnated and coated. J. J. Byers. No. 1,290,073; Jan. 7; v. 258; p. 14.
- Sheet package of reversely-folded material, Consecutive-. C. W. Morden. No. 1,307,139; June 17; v. 263; p. 420.
- Sheet-printing press, Multicolor. B. F. Upham. No. 1,309,555; July 8; v. 254; p. 314.
- Sheet, Proving-. W. P. Quantell. No. 1,295,597; Feb. 25; v. 259; p. 698.
- Sheet-register. N. A. Anderson. No. 1,300,235; Apr. 15; v. 261; p. 419.
- Sheet-register mechanism. C. Henderson. No. 1,324,251; Dec. 9; v. 269; p. 238.
- Sheet-registering mechanism. J. R. Blaine. No. 1,300,561; Apr. 15; v. 261; p. 489.
- Sheet-registering mechanism. J. R. Blaine. No. 1,300,562; Apr. 15; v. 261; p. 490.
- Sheet-registering mechanism. J. R. Blaine. No. 1,300,563; Apr. 15; v. 261; p. 490.
- Sheet-registering mechanism. M. A. Droitcour. No. 1,299,920; Apr. 8; v. 261; p. 324.
- Sheet-registering mechanism. B. D. Stevens. No. 1,292,968; Jan. 28; v. 258; p. 784.
- Sheet-registering mechanism for tin sheets. A. S. Busk. No. 1,321,807; Nov. 18; v. 268; p. 388.
- Sheet-registering mechanism, Reversible. J. R. Perry. No. 1,305,741; June 3; v. 263; p. 97.
- Sheet-separating device, Automatic. M. O'Connor. No. 1,325,410; Dec. 16; v. 269; p. 518.
- Sheet-separating machines, Pad for. J. E. Webster. No. 1,308,131; July 1; v. 264; p. 23.
- Sheet-splitting machine. A. J. Townsend. No. 1,323,425; Dec. 2; v. 269; p. 38.
- Sheet-steel car end. V. E. Sisson. No. 1,313,128; Aug. 12; v. 265; p. 275.
- Sheet-stretcher. W. S. Jenkins. No. 1,325,519; Dec. 23; v. 269; p. 555.
- Sheet-stripping machine. S. Barrie and I. L. Maranhas. No. 1,306,992; June 17; v. 263; p. 393.
- Sheet structure, Back-tube-. A. R. Hodges. No. 1,292,775; Jan. 28; v. 258; p. 738.
- Sheet structure, Trusscd. J. O. Madison. No. 1,300,439; Apr. 15; v. 261; p. 462.
- Sheet-trip. O. M. Hoch. No. 1,296,803; Mar. 11; v. 260; p. 258.
- Sheets and plates, Finishing galvanized. R. Skemp. No. 1,297,265; Mar. 11; v. 260; p. 361.
- Sheets from piles, Apparatus for taking off single. S. Feldman. No. 1,291,455; Jan. 14; v. 258; p. 368.
- Sheets from piles, Apparatus for taking off single. S. Feldman. No. 1,298,485; Mar. 25; v. 260; p. 676.
- Sheets from piles, Pneumatic apparatus for taking off single. S. Feldman. No. 1,291,456; Jan. 14; v. 258; p. 368.
- Sheets, Marking and perforating. P. B. Klugh. No. 1,310,420; July 22; v. 264; p. 541.
- Sheets or films, Machine for manufacturing gelatin. A. O. Travis. No. 1,310,311; July 15; v. 264; p. 489.
- Sheets, pamphlets, or analogous articles, Mechanism for feeding. W. E. Pedrick. No. 1,292,641; Jan. 28; v. 258; p. 707.
- Sheets, Set of manifolding-. L. A. Wernery. No. 1,299,643; Apr. 8; v. 261; p. 261.



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- Sheets to cold rolls, pickling, tinning, galvanizing, and like machines, Apparatus for separating and feeding. D. Davies. No. 1,316,430; Sept. 16; v. 266; p. 383.
- Sheets to form periodicals and the like, Device for gathering. G. Spiess. No. 1,294,842; Feb. 18; v. 259; p. 502.
- Sheets together, Fastening. H. Rosenberg. No. 1,299,232; Apr. 1; v. 261; p. 140.
- Shelf construction. J. W. Sinnott. No. 1,325,174; Dec. 16; v. 269; p. 474.
- Shelf-support. A. F. Carlin. No. 1,312,891; Aug. 12; v. 265; p. 228.
- Shelving construction. R. R. Belcher. No. 1,324,537; Dec. 9; v. 269; p. 294.
- Shelving, Metal. A. C. Terrell. No. 1,302,882; May 6; v. 262; p. 77.
- Shelving-rack. J. Marchlenski. No. 1,303,094; May 6; v. 262; p. 117.
- Shell. R. G. and O. L. Aoughsten. No. 1,302,272; Apr. 29; v. 261; p. 895.
- Shell. W. Cameron. No. 1,302,008; Apr. 29; v. 261; p. 846.
- Shell. A. E. Matteus. No. 1,297,216; Mar. 11; v. 260; p. 350.
- Shell-adaptor. H. G. Carlson. No. 1,293,701; Feb. 11; v. 259; p. 199.
- Shell adaptor and booster casing. N. W. Dingwall and C. M. Budd. No. 1,296,169; Mar. 4; v. 260; p. 82.
- Shell adaptor and booster casing. N. W. Dingwall and C. M. Budd. No. 1,296,170; Mar. 4; v. 260; p. 82.
- Shell adaptor and booster casing. N. W. Dingwall and C. M. Budd. No. 1,296,171; Mar. 4; v. 260; p. 82.
- Shell and like forgings, Production of. S. Z. de Feiranti. No. 1,306,583; June 10; v. 263; p. 285.
- Shell and spring-casing, Combined friction-. J. F. O'Connor. No. 1,293,891; Feb. 11; v. 259; p. 244.
- Shell, Carrier-. R. A. Darling. No. 1,309,982; July 15; v. 264; p. 430.
- Shell-casting mold. A. C. Mott, Jr., A. J. Meyer, J. K. Hatteman, and C. H. Wheawill. No. 1,298,373; Mar. 25; v. 260; p. 650.
- Shell, Deposit-box. F. E. Van Doorn. No. 1,323,560; Dec. 2; v. 269; p. 64.
- Shell, Depth-. L. T. Bates. No. 1,312,227; Aug. 5; v. 265; p. 70.
- Shell, Explosive. R. A. Berry. No. 1,300,333; Apr. 15; v. 261; p. 440.
- Shell, Explosive. R. L. Cushing. No. 1,306,215; June 10; v. 263; p. 215.
- Shell, Explosive. S. C. Davidson. No. 1,292,390; Jan. 21; v. 258; p. 624.
- Shell, Explosive. E. A. Hawks. No. 1,305,967; June 3; v. 263; p. 140.
- Shell, Explosive. S. W. Rushmore. No. 1,297,499; Mar. 18; v. 260; p. 439.
- Shell, Explosive. W. M. Smith. No. 1,313,129; Aug. 12; v. 265; p. 276.
- Shell extractor, Ruptured-. G. U. Burdett. No. 1,326,569; Dec. 30; v. 269; p. 789.
- Shell, Flame-light. S. C. Davidson. No. 1,306,407; June 10; v. 263; p. 253.
- Shell, Foliating. E. G. F. R. du Mazuel. No. 1,313,940; Aug. 26; v. 265; p. 478.
- Shell, High-explosive. E. Gathmann. No. 1,316,296; Sept. 16; v. 266; p. 357.
- Shell, Illuminating-. A. G. Bergman. No. 1,305,187; May 27; v. 262; p. 612.
- Shell, Illuminating-. A. G. Bergman. No. 1,318,719; Oct. 14; v. 267; p. 263.
- Shell, Illuminating-. A. G. Bergman. No. 1,318,720; Oct. 14; v. 267; p. 263.
- Shell, Non-ricocheting. J. P. Nikonow. No. 1,298,085; Mar. 25; v. 260; p. 589.
- Shell or similar body, Explosive-. F. M. Hale. No. 1,301,126; Apr. 22; v. 261; p. 645.
- Shell or similar body, Explosive. F. M. Hale. No. 1,303,197; May 6; v. 262; p. 137.
- Shell, Shot-. J. S. Gravely. No. 1,304,962; May 27; v. 262; p. 569.
- Shell, Shot-. J. S. Gravely. No. 1,320,754; Nov. 4; v. 268; p. 74.
- Shell, Shot-. A. C. Jewett. No. 1,305,113; May 27; v. 262; p. 598.
- Shell, Shot-. A. C. Jewett. No. 1,305,114; May 27; v. 262; p. 598.
- Shell, Shot-. A. C. Jewett. No. 1,305,115; May 27; v. 262; p. 598.
- Shell, Socket-. S. Buchsbaum. No. 1,319,642; Oct. 21; v. 267; p. 465.
- Shell with reinforced end and making same, Drawn metal. G. W. Hoar. No. 1,323,532; Dec. 2; v. 269; p. 58.
- Shells and the like, Gas-. C. Steenstrup. No. 1,306,641; June 10; v. 263; p. 296.
- Shells, bombs, or grenades, Projection of explosive. S. C. Davidson. No. 1,299,136; Apr. 1; v. 261; p. 118.
- Shells, Cooling explosive. A. J. Moxham. No. 1,311,175; July 29; v. 264; p. 713.
- Shells, Explosive charges for the central tubes of shrapnel-. F. I. du Pont. No. 1,308,345; July 1; v. 264; p. 62.
- Shells, Loading. D. M. Bliss. No. 1,317,422; Sept. 30; v. 266; p. 654.
- Shells, Machine for making pastry-. O. Hauge and W. A. England. No. 1,310,990; July 22; v. 264; p. 645.
- Shells, Machine for making tubular box-. M. H. Sidebotham. No. 1,298,586; Mar. 25; v. 260; p. 697.
- Shells, Making ogival. T. B. and T. E. Murray, Jr. No. 1,293,873; Feb. 11; v. 259; p. 240.
- Shells, Means for handling. J. F. Schott. No. 1,302,861; May 6; v. 262; p. 73.
- Shells or the like, Making booster-casings and adaptors for gas-. H. G. Carlson. No. 1,312,517; Aug. 12; v. 265; p. 155.
- Shells, Preparing explosive charges for. F. I. du Pont. No. 1,308,347; July 1; v. 264; p. 62.
- Shells, Press for assembling. F. Leming. No. 1,302,185; Apr. 29; v. 261; p. 879.
- Shells, Rectifying-machine for. W. H. Sumbling. No. 1,308,125; July 1; v. 264; p. 22.
- Sheller. See—
- Corn-sheller.
- Shellac and making same, Liquid. T. H. Dugan. No. 1,303,782; May 13; v. 262; p. 271.
- Shellac and the like to sheets of material, Method of and apparatus for applying. R. M. Briggs. No. 1,311,491; July 29; v. 264; p. 772.
- Shellac-jar. J. R. Long. No. 1,318,161; Oct. 7; v. 267; p. 95.
- Shellac, varnish, and related products, Making substitutes for. C. L. Lighenhome. No. 1,315,137; Sept. 2; v. 266; p. 121.
- Sherardizing articles, Apparatus for. H. C. Harrison. No. 1,291,866; Jan. 21; v. 258; p. 496.
- Shield. D. Alexander. No. 1,323,433; Dec. 2; v. 269; p. 39.
- Shield. J. G. Bristol. No. 1,318,477; Oct. 14; v. 267; p. 217.
- Shield. G. Fimiani. No. 1,297,455; Mar. 18; v. 260; p. 430.
- Shield. C. S. McCreery. No. 1,326,074; Dec. 23; v. 269; p. 659.
- Shield. H. Saddle mire. No. 1,318,600; Oct. 14; v. 267; p. 241.
- Shield, Adjustable storm and light. W. M. Christopher. No. 1,309,352; July 8; v. 264; p. 276.
- Shield and fire-shutter, Protective. B. A. Proctor. No. 1,298,392; Mar. 25; v. 260; p. 653.
- Shield, Combined slide-loop and leather. F. B. La Belle. No. 1,324,599; Dec. 9; v. 269; p. 306.
- Shield, Elbow-. R. P. Grau. No. 1,304,558; May 27; v. 262; p. 494.
- Shield, Expansion-. J. Kennedy. No. 1,304,887; May 27; v. 262; p. 555.
- Shield, Face and ear. I. and S. Greenfield. No. 1,291,846; Jan. 21; v. 258; p. 491.
- Shield for horses' heads, Corn-. N. D. House. No. 1,321,448; Nov. 11; v. 268; p. 270.
- Shield for troops, Convertible. C. L. Clark. No. 1,304,541; May 27; v. 262; p. 491.
- Shield, Fruit-eating. J. R. Gibson. No. 1,324,659; Dec. 9; v. 269; p. 317.
- Shield, Glare-. O. Redmond. No. 1,306,626; June 10; v. 263; p. 293.
- Shield, Gunner's. J. Lovas. No. 1,290,606; Jan. 7; v. 258; p. 143.
- Shield, Hand-. H. L. Eissler. No. 1,314,053; Aug. 26; v. 265; p. 500.
- Shield, Recorder's. B. L. Campbell. No. 1,320,840; Nov. 4; v. 268; p. 90.
- Shield, Pressed-metal expansion-. J. Kennedy. No. 1,304,885; May 27; v. 262; p. 555.
- Shield, Tunnel-. J. F. O'Rourke. No. 1,296,312; Mar. 4; v. 260; p. 113.
- Shield, Sanitary. J. W. Taylor. No. 1,307,162; June 17; v. 263; p. 424.
- Shield, Wind-. A. C. Pratt. No. 1,302,969; May 6; v. 262; p. 93.
- Shields, Manufacture of dress-. L. H. Rand. No. 1,322,614; Nov. 25; v. 268; p. 591.
- Shifter-fork lock. G. C. Jensen. No. 1,294,668; Feb. 18; v. 259; p. 462.
- Shifting mechanism. J. G. Vincent. No. 1,321,165; Nov. 11; v. 268; p. 216.
- Shim. E. B. Cantrell and G. E. Miller. No. 1,297,658; Mar. 18; v. 260; p. 473.
- Shim. J. E. Merwin. No. 1,296,418; Mar. 4; v. 260; p. 135.
- Shin-bone cutter, Automatic. A. Chakravarty and F. H. Grail. No. 1,309,017; July 8; v. 264; p. 214.
- Shingle. A. L. Baughman. No. 1,322,220; Nov. 18; v. 268; p. 465.
- Shingle. H. R. Wardell. No. 1,325,546; Dec. 23; v. 269; p. 560.
- Shingle-clamp Wire-nail. A. A. Griswold. No. 1,320,136; Oct. 28; v. 267; p. 580.
- Shingle-cutting-machine attachment. E. A. Lee. No. 1,293,481; Feb. 4; v. 259; p. 117.
- Shingle for roofing and the like, Butt-end composition. H. C. Hose. No. 1,310,082; July 15; v. 264; p. 448.
- Shingle-machine. G. Hultberg. No. 1,313,224; Aug. 12; v. 265; p. 294.
- Shingle-machine saws, Block-side guard for upright-. W. I. Simpson. No. 1,302,445; Apr. 29; v. 261; p. 930.

- Shingle making, Composite tapered. R. A. Plumb. No. 1,315,575; Sept. 9; v. 266; p. 211.
- Shingle-making machine. F. Zelepugas. No. 1,311,633; July 29; v. 264; p. 798.
- Shingle-mill. J. F. Bell. No. 1,316,555; Sept. 23; v. 266; p. 455.
- Shingle, Sheet-metal. L. Kuehn. No. 1,306,488; June 10; v. 263; p. 268.
- Shingle-simulating roofing-strip, Making. O. D. McFarland. No. 1,296,984; Mar. 11; v. 260; p. 300.
- Shingle-strip. E. A. Mastick, Jr. No. 1,298,535; Mar. 25; v. 260; p. 687.
- Shingle-strip. E. A. Mastick, Jr. No. 1,298,536; Mar. 25; v. 260; p. 687.
- Shingle-strip machine. F. C. Overbury. No. 1,301,964; Apr. 29; v. 261; p. 838.
- Shingles, Armor for. E. L. Gentry. No. 1,309,065; July 8; v. 264; p. 224.
- Shingles, Machine for making fabric. F. C. Overbury. No. 1,301,591; Apr. 22; v. 261; p. 734.
- Shingles, Machine for staining and treating. C. A. Robinson. No. 1,325,110; Dec. 16; v. 269; p. 462.
- Shingling-bracket. A. D. Tuttle. No. 1,299,874; Apr. 8; v. 261; p. 315.
- Shingling-gage. G. J. Lang. No. 1,291,558; Jan. 14; v. 258; p. 390.
- Ship. A. M. Cortez. No. 1,309,019; July 8; v. 264; p. 215.
- Ship. C. V. A. Eley. No. 1,301,238; Apr. 22; v. 261; p. 668.
- Ship. A. P. Filippi. No. 1,299,161; Apr. 1; v. 261; p. 124.
- Ship, Aerial war-. C. Eich. No. 1,294,334; Feb. 11; v. 259; p. 348.
- Ship and constructing same, Reinforced-concrete. R. R. Leffer. No. 1,305,379; June 3; v. 263; p. 28.
- Ship-coaling device. J. S. Stewart. No. 1,320,368; Oct. 28; v. 267; p. 623.
- Ship, Concrete. S. Giletti. No. 1,313,592; Aug. 19; v. 265; p. 379.
- Ship, Concrete. C. Z. Hubbell. No. 1,299,729; Apr. 8; v. 261; p. 282.
- Ship, Concrete. J. R. Walsh. No. 1,292,173; Jan. 21; v. 258; p. 574.
- Ship construction. S. Asakawa. No. 1,313,663; Aug. 19; v. 265; p. 392.
- Ship construction. F. Barniak. No. 1,309,875; July 15; v. 264; p. 410.
- Ship construction. W. L. Cole. No. 1,290,093; Jan. 7; v. 258; p. 19.
- Ship construction. A. A. Daugherty. No. 1,319,462; Oct. 21; v. 267; p. 431.
- Ship construction. R. W. Davis. No. 1,310,650; July 22; v. 264; p. 583.
- Ship construction. J. Elriff. No. 1,310,181; July 15; v. 264; p. 466.
- Ship construction. G. Magnuson. No. 1,319,480; Oct. 21; v. 267; p. 434.
- Ship construction. J. McGrath. No. 1,314,069; Aug. 26; v. 265; p. 503.
- Ship construction. G. V. Montaruli. No. 1,295,786; Feb. 25; v. 259; p. 742.
- Ship construction. J. H. Silley and E. F. Spanner. No. 1,323,920; Dec. 2; v. 269; p. 131.
- Ship construction, Reinforced cement or concrete. F. G. Jordan. No. 1,296,809; Mar. 11; v. 260; p. 259.
- Ship-convoy submarine defense. M. Carrau. No. 1,305,877; June 3; v. 263; p. 122.
- Ship-fender. P. Kuharchek. No. 1,296,669; Mar. 11; v. 260; p. 227.
- Ship-fender. T. Powlin. No. 1,303,959; May 20; v. 262; p. 342.
- Ship-fender. A. Zabawa. No. 1,293,289; Feb. 4; v. 259; p. 74.
- Ship-floating apparatus. W. Schneider. No. 1,319,424; Oct. 21; v. 267; p. 423.
- Ship-floating means. H. D. Deam. No. 1,319,378; Oct. 21; v. 267; p. 414.
- Ship for carrying live lobsters and the like. J. E. Wooster. No. 1,290,467; Jan. 7; v. 258; p. 110.
- Ship-form. L. A. Wells. No. 1,323,135; Nov. 25; v. 268; p. 688.
- Ship form, Concrete. M. H. and C. Martinsen. No. 1,292,500; Jan. 28; v. 258; p. 672.
- Ship-form, Floating. J. A. Lynch. No. 1,302,570; May 6; v. 262; p. 17.
- Ship-launching apparatus. K. W. Ljungdell. No. 1,299,363; Apr. 1; v. 261; p. 169.
- Ship-launching device. J. N. Borglin. No. 1,313,786; Aug. 19; v. 265; p. 415.
- Ship locating and raising device. J. Davis. No. 1,325,497; Dec. 16; v. 269; p. 533.
- Ship magnetic protector. J. and S. Pies. No. 1,293,539; Feb. 4; v. 259; p. 131.
- Ship-motor attachment. S. Karafas. No. 1,293,110; Feb. 4; v. 259; p. 32.
- Ship, Non-sinkable. M. Olsen. No. 1,321,325; Nov. 11; v. 268; p. 247.
- Ship propulsion. A. Baring-Gould. No. 1,315,620; Sept. 9; v. 266; p. 218.
- Ship propulsion. W. L. R. Emmet. No. 1,304,287; May 20; v. 262; p. 402.
- Ship propulsion. W. L. R. Emmet. No. 1,304,288; May 20; v. 262; p. 403.
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- Ship propulsion, Electric. W. L. R. Emmet. No. 1,290,946; Jan. 14; v. 258; p. 250.
- Ship propulsion, Electric. W. L. R. Emmet. No. 1,313,078; Aug. 12; v. 265; p. 265.
- Ship propulsion, Electric. W. L. R. Emmet. No. 1,313,079; Aug. 12; v. 265; p. 265.
- Ship propulsion, Electric. H. M. Hobart. No. 1,304,181; May 20; v. 262; p. 382.
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- Ship propulsion, Electric system of. E. F. W. Alexander-son. No. 1,304,240; May 20; v. 262; p. 393.
- Ship propulsion, Electric system of. W. L. R. Emmet. No. 1,304,290; May 20; v. 262; p. 403.
- Ship propulsion, Geared-turbine installation for. C. A. Parsons. No. 1,302,962; May 6; v. 262; p. 92.
- Ship-propulsion system. W. L. R. Emmet. No. 1,297,130; Mar. 11; v. 260; p. 332.
- Ship-propulsion system. W. L. R. Emmet. No. 1,304,289; May 20; v. 262; p. 403.
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- Ship-protector. F. Garaca. No. 1,298,325; Mar. 25; v. 260; p. 641.
- Ship-protector. W. Gasiorowski. No. 1,294,081; Feb. 11; v. 259; p. 289.
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- Ship-protector. A. Reed. No. 1,314,902; Sept. 2; v. 266; p. 79.
- Ship-protector. F. Zebrowski. No. 1,326,558; Dec. 30; v. 269; p. 786.
- Ship-raising device. L. Farnham. No. 1,300,943; Apr. 15; v. 261; p. 569.
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- Ship steam-turbine plant. H. Föttinger. No. 1,296,378; Mar. 4; v. 260; p. 127.
- Ship steering device. M. Sitney. No. 1,319,182; Oct. 21; v. 267; p. 378.
- Ship steering-gear, Hydraulic. C. R. Pratt. No. 1,294,162; Feb. 11; v. 259; p. 308.
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- Ships, Apparatus for furnishing drinking-water on ocean. I. H. Jewell. No. 1,299,002; Apr. 1; v. 261; p. 89.
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- Ships' boats, Engaging and disengaging gear for. H. W. Broady. No. 1,319,675; Oct. 21; v. 267; p. 471.
- Ships' boats to and detaching them from tackle suspended from davits, Means for attaching. A. W. L. Schermuly. No. 1,319,492; Oct. 21; v. 267; p. 436.
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- Ships, buildings, tanks, &c., Construction of concrete. A. G. S. Isbester. No. 1,317,137; Sept. 23; v. 266; p. 564.
- Ships, Collision-mat for use on. C. V. A. Eley. No. 1,309,022; July 8; v. 264; p. 216.
- Ship's construction. G. B. Zonca. No. 1,297,303; Mar. 11; v. 260; p. 370.
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- Ships, Construction of the hulls of concrete. J. H. Holmgreen. No. 1,303,667; May 13; v. 262; p. 250.



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- Ship's davit. T. H. Marten. No. 1,313,404; Aug. 19; v. 265; p. 343.
- Ship's deck structure, bulkhead structure, and the like. W. L. Cole. No. 1,290,092; Jan. 7; v. 258; p. 19.
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- Ships, Detecting and locating. R. A. Fessenden. No. 1,319,145; Oct. 21; v. 267; p. 371.
- Ships from sinking, Means for preventing. J. Priolo. No. 1,293,918; Feb. 11; v. 259; p. 250.
- Ships from torpedoes, Means for protecting. J. Diners. No. 1,305,700; June 3; v. 263; p. 89.
- Ships, Fuel-oil tank in twin-screw motor. H. H. Blache. No. 1,319,947; Oct. 28; v. 267; p. 545.
- Ship's furniture. J. Trputec. No. 1,324,767; Dec. 9; v. 269; p. 337.
- Ships, Gun-mounting and means for carrying same on decks of. C. Wale. No. 1,323,129; Nov. 25; v. 268; p. 687.
- Ships' hatches, Means for securing tarpaulins, &c., upon. O. Norling. No. 1,319,610; Oct. 21; v. 267; p. 459.
- Ships' hatches, Watertight securing of tarpaulins on. E. E. von Tell. No. 1,319,980; Oct. 28; v. 267; p. 551.
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- Ships' life-boats, Davit for. T. H. Marten. No. 1,319,353; Oct. 21; v. 267; p. 409.
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- Ship's log. J. F. Cole. No. 1,293,343; Feb. 4; v. 259; p. 86.
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- Ship's log. N. Tesla. No. 1,314,718; Sept. 2; v. 266; p. 46.
- Ships, Machine for spreading heavy coatings on. D. A. Doran. No. 1,326,484; Dec. 30; v. 269; p. 772.
- Ships, Means for raising sunken. E. T. Bartlett. No. 1,309,111; July 8; v. 264; p. 232.
- Ships, Means for screening or obscuring. I. Karton. No. 1,310,533; July 22; v. 264; p. 561.
- Ships, mercantile and navy, against submarine attacks or mines, Protection of. E. Ferrati, N. Pecoraro, and A. Guidoni. No. 1,299,697; Apr. 8; v. 261; p. 274.
- Ships, Method of and means for producing smoke screens for. A. H. Stow. No. 1,296,226; Mar. 4; v. 260; p. 94.
- Ships, Mold for concrete. P. S. Warman. No. 1,308,565; July 1; v. 264; p. 102.
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- Ships, Pontoon for raising. A. Courvoisier. No. 1,308,168; July 1; v. 264; p. 30.
- Ships' positions, Instrument for locating. N. L. Carlson. No. 1,294,768; Feb. 18; v. 259; p. 485.
- Ships' propellers, Protector for the tail-shafts and bearings of. E. W. Clarke. No. 1,294,620; Feb. 18; v. 259; p. 449.
- Ships, Protective device for. G. E. Elia. No. 1,312,841; Aug. 12; v. 265; p. 219.
- Ships, Raising sunken. J. T. Breneman. No. 1,324,336; Dec. 9; v. 269; p. 254.
- Ships, Salvage device for. P. A. Ryzek. No. 1,295,375; Feb. 25; v. 259; p. 646.
- Ships, Shield for the protection of. W. L. Martin. No. 1,311,002; July 22; v. 264; p. 648.
- Ship's steering-gear. J. H. Pew. No. 1,290,337; Jan. 7; v. 258; p. 78.
- Ships, Steering and maneuvering. H. E. Yarrow. No. 1,296,448; Mar. 4; v. 260; p. 141.
- Ships, Stern-tube for. F. Hodgkinson. No. 1,323,474; Dec. 2; v. 269; p. 47.
- Ships, Torpedo-deflecting means for. C. H. Caspar. No. 1,310,057; July 15; v. 264; p. 443.
- Ships, Torpedo-guard for. A. C. Knapp. No. 1,324,904; Dec. 16; v. 269; p. 424.
- Shipping-bag. G. H. Owens. No. 1,317,641; Sept. 30; v. 266; p. 696.
- Shipping-box. J. M. Blanchard. No. 1,319,835; Oct. 28; v. 267; p. 524.
- Shipping-box. W. G. Browne. No. 1,309,877; July 15; v. 264; p. 411.
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- Shipping case or container. C. S. Dudley. No. 1,307,089; June 17; v. 263; p. 411.
- Shipping-cases, Partition and reinforcing member for. R. L. Boswell and H. E. Martin. No. 1,306,796; June 17; v. 263; p. 357.
- Shipping-crate. A. A. Francis. No. 1,322,419; Nov. 18; v. 268; p. 503.
- Shipping-receptacle. S. Sarnoff. No. 1,302,472; Apr. 29; v. 261; p. 935.
- Shipyard aerial fall-carrier. J. G. B. Chambers. No. 1,294,770; Feb. 18; v. 259; p. 485.
- Shirt. B. Gross. No. 1,301,252; Apr. 22; v. 261; p. 670.
- Shirt. A. R. Jacobs. No. 1,292,325; Jan. 21; v. 258; p. 610.
- Shirt. H. S. Kratz. No. 1,306,228; June 10; v. 263; p. 219.
- Shirt. A. Warshauer. No. 1,313,932; Aug. 26; v. 265; p. 476.
- Shirt-cuff. W. J. McGaw. No. 1,291,970; Jan. 21; v. 258; p. 524.
- Shirt, Man's. A. S. Berman. No. 1,326,472; Dec. 30; v. 269; p. 770.
- Shirt-sleeve. W. P. Rowan. No. 1,294,711; Feb. 18; v. 259; p. 471.
- Shirts, Neckband for. W. S. Tothill. No. 1,304,921; May 27; v. 262; p. 561.
- Shirts, Reinforce for. Y. K. Buell. No. 1,316,219; Sept. 16; v. 266; p. 343.
- Shock-absorber. W. C. Barr. No. 1,317,417; Sept. 30; v. 266; p. 653.
- Shock-absorber. P. A. Berthier. No. 1,316,135; Sept. 16; v. 266; p. 327.
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- Shock-absorber. E. H. Cordill. No. 1,297,799; Mar. 18; v. 260; p. 504.
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- Shock-absorber. G. B. Dorey. No. 1,308,171; July 1; v. 264; p. 30.
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- Shock-absorber. E. Fuller. No. 1,303,816; May 13; v. 262; p. 278.
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- Shock-absorber. J. N. Hovas. No. 1,294,467; Feb. 18; v. 259; p. 415.
- Shock-absorber. G. L. Jacques. No. 1,319,086; Oct. 21; v. 267; p. 358.
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- Shock-absorber. J. F. O'Connor. No. 1,302,079; Apr. 29; v. 261; p. 860.

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- Shoes, Producing soles for. K. Engel. No. 1,313,887; Aug. 26; v. 265; p. 468.
- Shoes, Protecting-plate for. J. Pietzuch. No. 1,319,793; Oct. 28; v. 267; p. 516.
- Shoes, Stiffening material for. A. J. Ryan. No. 1,316,650; Sept. 23; v. 266; p. 473.
- Shoes, Substitute material for making box-toes for. A. C. Denning. No. 1,303,262; May 13; v. 262; p. 177.
- Shoemaker's combination-tool. J. Michki. No. 1,297,386; Mar. 18; v. 260; p. 416.
- Shoepack. J. S. Donovan. No. 1,303,037; May 6; v. 262; p. 106.
- Shooting-gallery. L. Case. No. 1,294,618; Feb. 18; v. 259; p. 449.
- Shooting-galleries, Machine-gun for. W. F. Mangels. No. 1,303,702; May 13; v. 262; p. 256.
- Shore, Adjustable. J. E. Hodges. No. 1,299,345; Apr. 1; v. 261; p. 166.
- Shoring device. H. H. Lampert. No. 1,298,970; Apr. 1; v. 261; p. 82.
- Shorthand-machine. W. S. Ireland. No. 1,296,191; Mar. 4; v. 260; p. 86.
- Shorthand-machine. W. S. Ireland. No. 1,296,192; Mar. 4; v. 260; p. 86.
- Shorthand-machine. W. S. Ireland. No. 1,318,323; Oct. 7; v. 267; p. 127.
- Shorthand-machine. W. S. Ireland. No. 1,324,550; Dec. 9; v. 269; p. 296.
- Shorthand-machine. W. S. Ireland. No. 1,324,551; Dec. 9; v. 269; p. 296.
- Shot-firing device, Portable. D. C. Gentry. No. 1,304,306; May 20; v. 262; p. 406.
- Shotgun, Breakdown. T. C. Johnson and C. E. Blizard. No. 1,314,196; Aug. 26; v. 265; p. 527.
- Shotgun-wad. E. M. Barrows. No. 1,291,698; Jan. 21; v. 258; p. 455.
- Shoulder and body brace. W. D. Hardy. No. 1,293,089; Feb. 4; v. 259; p. 27.
- Shoulder-brace and abdominal support, Combined. E. Karlin. No. 1,303,330; May 13; v. 262; p. 189.
- Shoulder-pad. T. J. Hartman. No. 1,310,477; July 22; v. 264; p. 551.
- Shovel. See—  
Excavating-shovel. Mechanical-stoker shovel.  
Mechanical shovel. Pneumatic shovel.
- Shovel and ash-sifter, Combination. C. E. Thomas. No. 1,306,931; June 17; v. 263; p. 382.
- Shovel and scraper, Combined snow. H. G. Rogers. No. 1,319,306; Oct. 21; v. 267; p. 101.
- Shovel and the like handle. W. Cooper. No. 1,297,661; Mar. 18; v. 260; p. 473.
- Shovel attachment. H. G. Moscherrosch and P. G. Schwartz. No. 1,300,452; Apr. 15; v. 261; p. 465.
- Shovel attachment. J. J. Van Valkenburg. No. 1,307,328; June 17; v. 263; p. 454.
- Shovel, Fire. L. C. Monismith. No. 1,307,265; June 17; v. 263; p. 443.
- Shovel-handle. G. Hecox. No. 1,291,505; Jan. 14; v. 258; p. 379.
- Shovel, Power. E. L. Beatty. No. 1,320,970; Nov. 4; v. 268; p. 115.
- Shovel, scoop, &c. J. S. Surbaugh. No. 1,312,766; Aug. 12; v. 265; p. 204.
- Shoveling and loading apparatus. W. K. Liggett. No. 1,293,132; Feb. 4; v. 259; p. 37.
- Shoveling-board. O. R. Manville. No. 1,314,684; Sept. 2; v. 266; p. 40.
- Shoveling-board. V. C. Baughman. No. 1,317,905; Oct. 7; v. 267; p. 46.
- Shoveling-machine. F. M. Hewitt. No. 1,304,683; May 27; v. 262; p. 518.
- Show-card exhibitor. K. Murphy. No. 1,326,084; Dec. 23; v. 269; p. 660.
- Show-case attachment. J. H. Franklin. No. 1,315,922; Sept. 9; v. 266; p. 274.
- Show-case, Revolving. L. Szold. No. 1,298,822; Apr. 1; v. 261; p. 48.
- Shower-bath attachment. H. B. Pitcher. No. 1,295,369; Feb. 25; v. 259; p. 645.
- Shower-bath head. J. J. Lawler. No. 1,290,249; Jan. 7; v. 258; p. 57.
- Shower-bath, Portable. F. I. S. Hynek. No. 1,302,559; May 6; v. 262; p. 15.
- Shower-head. E. G. Watrous. No. 1,319,738; Oct. 28; v. 267; p. 506.
- Shower-head, Regulating. L. B. Yeiser. No. 1,295,250; Feb. 25; v. 259; p. 618.
- Shrapnel-fuse timing-rings, Method and apparatus for shelling. E. B. Long. No. 1,291,949; Jan. 21; v. 258; p. 518.
- Shrapnel-shells, Making. W. D. Rice. No. 1,303,727; May 13; v. 262; p. 261.
- Shredders, Feed mechanism for. H. J. Shelton. No. 1,319,122; Oct. 21; v. 267; p. 365.
- Shredding and spinning machine. G. A. Lowry. No. 1,291,955; Jan. 21; v. 258; p. 520.
- Shredding and spinning machine. G. A. Lowry. No. 1,309,646; July 15; v. 264; p. 368.
- Shredding and spinning machine. G. W. Lowry. No. 1,316,249; Sept. 16; v. 266; p. 349.
- Shredding-machine. J. Stachowski. No. 1,319,496; Oct. 21; v. 267; p. 437.
- Shutter-holder. G. D. Wilson. No. 1,309,382; July 8; v. 264; p. 282.
- Shutter opening and closing mechanism. F. Esa. No. 1,323,848; Dec. 2; v. 269; p. 117.
- Shutter-operating device. E. W. Dakin and E. E. Underwood. No. 1,297,327; Mar. 18; v. 260; p. 404.
- Shutter-panel, Safety. H. F. Krantz. No. 1,306,343; June 10; v. 263; p. 242.
- Shutter, Safety. F. McMillan. No. 1,326,409; Dec. 30; v. 269; p. 757.
- Shutter, Safety. W. P. Shomaker. No. 1,302,093; Apr. 29; v. 261; p. 862.
- Shutter, storm-window, and screen-fastener. R. L. Tarbox. No. 1,300,044; Apr. 8; v. 261; p. 351.
- Shuttle. A. Arico. No. 1,324,991; Dec. 16; v. 269; p. 440.
- Shuttle. B. S. Atwood. No. 1,312,666; Aug. 12; v. 265; p. 184.
- Shuttle. A. R. Silvia. No. 1,290,379; Jan. 7; v. 258; p. 87.
- Shuttle. J. C. Shambow. No. 1,324,932; Dec. 16; v. 269; p. 429.
- Shuttle-binder. W. B. Holt. No. 1,316,551; Sept. 16; v. 266; p. 407.
- Shuttle bobbin-holder. S. R. Liberty. No. 1,296,825; Mar. 11; v. 260; p. 263.
- Shuttle-eye. J. C. Shambow. No. 1,324,933; Dec. 16; v. 269; p. 429.
- Shuttle, Loom. J. B. Daudelin. No. 1,309,188; July 8; v. 264; p. 245.
- Shuttle-motion, Magnetic. W. Routledge. No. 1,302,437; Apr. 29; v. 261; p. 928.
- Shuttle, Tatting. G. A. Houseman. No. 1,306,692; June 17; v. 263; p. 339.
- Shuttle, Tatting. C. E. Patrick. No. 1,297,234; Mar. 11; v. 260; p. 354.
- Shuttle, Tatting. M. L. Porter. No. 1,314,209; Aug. 26; v. 265; p. 529.
- Shuttles, Tension device for. J. Barton and W. Cotterill. No. 1,307,336; June 24; v. 263; p. 489.
- Shuttles, Threading-eye for. J. C. Shambow. No. 1,301,611; Apr. 22; v. 261; p. 738.
- Sickle attachment. G. H. Hayes. No. 1,326,339; Dec. 30; v. 269; p. 744.
- Sickle-bar. A. D. Abbenzeller. No. 1,306,242; June 10; v. 263; p. 223.
- Sickle-bar. A. D. Abbenzeller. No. 1,319,131; Oct. 21; v. 267; p. 366.
- Sickle-bar. A. D. Abbenzeller. No. 1,319,132; Oct. 21; v. 267; p. 267.
- Sickle-puller. S. D. Russell. No. 1,302,595; May 6; v. 262; p. 21.
- Side-delivery rotary rake. L. R. Clausen. No. 1,313,880; Aug. 26; v. 265; p. 466.
- Side-force and danger indicator. M. J. Klein. No. 1,309,574; July 8; v. 264; p. 318.
- Side frame and journal-box, Equalizing. A. Beasley. No. 1,306,461; June 10; v. 263; p. 263.
- Sidewalk-light. A. C. Crimmel. No. 1,322,481; Nov. 18; v. 268; p. 515.
- Sieve-shaker. M. A. Evert. No. 1,290,531; Jan. 7; v. 258; p. 125.



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- Sifter. E. Gentzler. No. 1,298,926; Apr. 1; v. 261; p. 71.  
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 Sifter. Ash. J. B. Adduci. No. 1,300,234; Apr. 15; v. 261; p. 419.  
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 Sifter. Ash. J. Volpert. No. 1,300,675; Apr. 15; v. 261; p. 512.  
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 Sifter. Flour. F. J. Mohr. No. 1,298,626; Mar. 25; v. 260; p. 705.  
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 Sight and clinometer. Combined. F. J. Scarr. No. 1,316,391; Sept. 16; v. 266; p. 375.  
 Sight-feed. Auxiliary. A. L. Matteson. No. 1,295,184; Feb. 25; v. 259; p. 603.  
 Sight. Track-leveling. A. J. Williamson. No. 1,296,248; Mar. 4; v. 260; p. 99.  
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 Sign. Advertising. F. Beaven. No. 1,291,370; Jan. 14; v. 258; p. 347.  
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 Sign and bulletin board. Combined. F. H. Loveless. No. 1,308,502; July 1; v. 264; p. 90.  
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 Sign. Automatic electric advertising. R. M. Craig. No. 1,308,698; July 1; v. 264; p. 126.  
 Sign. Changeable. F. R. Barclay. No. 1,315,077; Sept. 2; v. 266; p. 111.  
 Sign. Changeable. R. B. Chauvet. No. 1,322,542; Nov. 25; v. 268; p. 578.  
 Sign. Changeable. H. C. Colegrove. No. 1,319,513; Oct. 21; v. 267; p. 440.  
 Sign. Changeable. A. H. Holcomb. No. 1,292,467; Jan. 28; v. 258; p. 663.  
 Sign. Changeable. J. W. Thoreau. No. 1,314,165; Aug. 26; v. 265; p. 521.  
 Sign character. H. M. Sorenson and G. W. Lee. No. 1,314,712; Sept. 2; v. 266; p. 45.  
 Sign. Display. D. E. Waters. No. 1,313,434; Aug. 19; v. 265; p. 349.  
 Sign. Electric. F. A. Smith. No. 1,326,218; Dec. 30; v. 269; p. 722.  
 Sign. Electric advertising. M. Gold. No. 1,324,810; Dec. 16; v. 269; p. 407.  
 Sign-flasher. L. B. Brown. No. 1,307,237; June 17; v. 263; p. 437.  
 Sign. Illuminated. R. G. Carpenter. No. 1,310,688; July 22; v. 264; p. 590.  
 Sign. Illuminated. D. B. Carse. No. 1,316,476; Sept. 16; v. 266; p. 392.  
 Sign. Illuminated. A. Herz. No. 1,303,556; May 13; v. 262; p. 230.  
 Sign. Illuminated. J. Hotchner. No. 1,295,826; Feb. 25; v. 259; p. 752.  
 Sign. Illuminated. J. Hotchner. No. 1,315,187; Sept. 2; v. 266; p. 130.  
 Sign. Illuminated. T. C. Matthews. No. 1,293,851; Feb. 11; v. 259; p. 235.  
 Sign. Illuminated. P. S. Van Bloem. No. 1,311,472; July 29; v. 264; p. 769.  
 Sign. Illuminated. R. R. Wiley. (Reissue.) No. 14,679; July 1; v. 264; p. 137.  
 Sign. Knockdown. A. E. Price. No. 1,308,680; July 1; v. 264; p. 123.  
 Sign mechanism. R. G. Carpenter. No. 1,310,689; July 22; v. 264; p. 590.  
 Sign or electrograph. Illuminated. E. J. Kingsbury. (Reissue.) No. 14,682; July 8; v. 264; p. 324.  
 Sign-painting apparatus. H. V. Carson. No. 1,295,270; Feb. 25; v. 259; p. 623.  
 Sign. Reflecting. D. B. Carse. No. 1,316,475; Sept. 16; v. 266; p. 391.  
 Sign. Street. E. J. Toner. No. 1,292,973; Jan. 28; v. 258; p. 785.  
 Sign. Transfer. D. Kaber. No. 1,299,353; Apr. 1; v. 261; p. 167.  
 Sign. Transparent. G. W. Balogh and L. Püski. No. 1,308,157; July 1; v. 264; p. 28.  
 Signs. Appliances for operating automobile. A. W. Olds. No. 1,311,135; July 22; v. 264; p. 672.  
 Signs. Finishing or surfacing. C. A. Divine. No. 1,304,749; May 27; v. 262; p. 530.  
 Signal. *See—*  
 Acroplane-signal. Light-signal.  
 Air-brake signal. Mail-box signal.  
 Air-pressure signal. Marine signal.  
 Auto-signal. Motor-vehicle signal.  
 Auto direction-signal. Railway-signal.  
 Automatic signal. Railway and similar signal.  
 Automobile-signal. Railway-crossing signal.  
 Automobile direction-signal. Railway danger-signal.  
 Automobile rear signal. Railway stop-signal.  
 Automobile safety-signal. Railway traffic-signal.  
 Automobile stop-signal. Reflecting-signal.  
 Automobile theft-signal. Street-crossing signal.  
 Automobile turning-signal. Street-traffic signal.  
 Car-signal. Switch-signal.  
 Crossing-signal. Tire-signal.  
 Danger-signal. Torpedo alarm-signal.  
 Direction-signal. Traffic-signal.  
 Electric signal. Traffic light-signal.  
 Electrical grade-crossing signal. Train-signal.  
 Fishing-signal. Train-stop or cab-signal.  
 Grade-crossing signal. Vehicle-signal.  
 Hand-signal. Vehicle direction-signal.  
 Highway-crossing signal. Vehicle theft-signal.  
 Signal. J. S. Baker. No. 1,322,396; Nov. 18; v. 268; p. 499.  
 Signal. C. J. Barclay. No. 1,321,701; Nov. 11; v. 268; p. 317.  
 Signal. C. G. Bauer. No. 1,325,432; Dec. 16; v. 269; p. 522.  
 Signal. F. W. Cherry. No. 1,316,082; Sept. 16; v. 266; p. 317.  
 Signal. G. V. Christopher. No. 1,293,336; Feb. 4; v. 259; p. 84.  
 Signal. G. A. Cole. No. 1,317,268; Sept. 30; v. 266; p. 624.  
 Signal. J. C. Coulombe. No. 1,292,436; Jan. 28; v. 258; p. 657.  
 Signal. H. J. Eagle. No. 1,313,678; Aug. 19; v. 265; p. 394.  
 Signal. F. E. Fanger. No. 1,290,728; Jan. 7; v. 258; p. 173.  
 Signal. J. S. Holliday. No. 1,306,181; June 10; v. 263; p. 209.  
 Signal. A. B. Kendall and O. S. Field. No. 1,301,949; Apr. 29; v. 261; p. 835.  
 Signal. G. R. Marsico. No. 1,306,493; June 10; v. 263; p. 269.  
 Signal. F. L. Schoening. No. 1,305,836; June 3; v. 263; p. 114.  
 Signal. B. L. Schwartz. No. 1,309,222; July 8; v. 264; p. 252.  
 Signal. S. B. Shaw. No. 1,313,609; Aug. 19; v. 265; p. 382.  
 Signal. W. Sparks. No. 1,312,060; Aug. 5; v. 265; p. 39.  
 Signal. E. L. Storer. No. 1,299,057; Apr. 1; v. 261; p. 101.  
 Signal. J. D. Thompson. No. 1,312,217; Aug. 5; v. 265; p. 68.  
 Signal. A. M. Ward. No. 1,310,813; July 22; v. 264; p. 614.  
 Signal. N. R. White. No. 1,295,402; Feb. 25; v. 259; p. 653.

- Signal apparatus. L. Angiulli. No. 1,323,517; Dec. 2; v. 269; p. 56.
- Signal apparatus. C. McKeever. No. 1,311,662; July 29; v. 264; p. 804.
- Signal apparatus. R. E. Wetter. No. 1,326,009; Dec. 23; v. 269; p. 646.
- Signal apparatus, Sound-. G. Dalén. No. 1,292,439; Jan. 28; v. 258; p. 658.
- Signal apparatus to indicate failure of lubricating systems, Automatic. L. G. Buckner and S. J. Sibley. No. 1,312,097; Aug. 5; v. 265; p. 46.
- Signal-carrying funnel. J. P. Lecrone. No. 1,316,167; Sept. 16; v. 266; p. 333.
- Signal-chart, Pocket. L. S. Drew. No. 1,311,682; July 29; v. 264; p. 807.
- Signal-control apparatus. G. Stickels. No. 1,293,970; Feb. 11; v. 259; p. 262.
- Signal-correcting system. R. C. Mathes. No. 1,295,553; Feb. 25; v. 259; p. 689.
- Signal device. S. D. Howell. No. 1,299,473; Apr. 8; v. 261; p. 223.
- Signal device. J. A. Reischmann, Jr. No. 1,311,997; Aug. 5; v. 265; p. 27.
- Signal device. C. M. Rose and A. L. Hamlin. No. 1,313,017; Aug. 12; v. 265; p. 253.
- Signal device. C. Weber. No. 1,325,885; Dec. 23; v. 269; p. 624.
- Signal-device, Toilet. G. Miyasaki. No. 1,323,539; Dec. 2; v. 269; p. 60.
- Signal device, Traffic-. L. S. and R. G. Carleton. No. 1,311,755; July 29; v. 264; p. 821.
- Signal devices, Circuit-closer for. P. F. Morris. No. 1,307,100; June 17; v. 263; p. 413.
- Signal-diaphragm-tuning device. F. G. Whittington. No. 1,298,428; Mar. 25; v. 260; p. 663.
- Signal flasher, Electrical-. W. C. Neahr. No. 1,310,766; July 22; v. 264; p. 604.
- Signal for grade-intersections of railways and highways, Warning-. P. Utne. No. 1,317,338; Sept. 30; v. 266; p. 638.
- Signal mechanism, Elimination and special-. J. F. Reiridon. No. 1,294,704; Feb. 18; v. 259; p. 469.
- Signal-operating and collision-preventing apparatus. S. L. Neely. No. 1,306,833; June 17; v. 263; p. 364.
- Signal-operating mechanism. C. J. Norby. No. 1,320,339; Oct. 28; v. 267; p. 618.
- Signal or advertising medium, Reflecting-. J. J. Fitzgerald and A. H. Barnes. No. 1,315,485; Sept. 9; v. 266; p. 195.
- Signal-recorder. H. W. Doughty. No. 1,309,720; July 15; v. 264; p. 382.
- Signal-recording apparatus. J. Ahern. No. 1,317,672; Oct. 7; v. 267; p. 3.
- Signal-rockets, Smoke-making composition for. R. C. Gowdy. No. 1,319,329; Oct. 21; v. 267; p. 405.
- Signal-rockets, Smoke-making compound for. R. C. Gowdy. No. 1,318,074; Oct. 7; v. 267; p. 79.
- Signs, Illuminator for luminous. E. L. Elliott and H. S. Williams. No. 1,323,684; Dec. 2; v. 269; p. 36.
- Signal system. C. C. Johnson and J. F. D. Hoge. No. 1,311,650; July 29; v. 264; p. 802.
- Signal system, Absolute permissive automatic block-. W. W. Salmon and F. L. Dodgson. No. 1,292,965; Jan. 28; v. 258; p. 783.
- Signal system, Electric. W. E. Laidley. No. 1,314,339; Aug. 26; v. 265; p. 555.
- Signal system, Electric. R. C. Warring. No. 1,296,346; Mar. 4; v. 260; p. 120.
- Signal system, Pneumatic. W. V. Turner. No. 1,294,981; Feb. 18; v. 259; p. 533.
- Signal-transmitting means, Electric. J. McFell. No. 1,308,958; July 8; v. 264; p. 202.
- Signal-transmitting system. L. Degen. No. 1,324,732; Dec. 9; v. 269; p. 330.
- Signal, Warning-. R. H. Manson. No. 1,318,572; Oct. 14; v. 267; p. 235.
- Signal-whistle. F. Schwarzer. No. 1,322,205; Nov. 18; v. 268; p. 462.
- Signals, Apparatus for transmitting. W. W. Miller. No. 1,309,364; July 8; v. 264; p. 278.
- Signals, Circuit-interrupter for traffic-. O. Freytag. No. 1,305,649; June 3; v. 263; p. 80.
- Signals, Direction-indicator for use in connection with vehicle direction-. O. L. Britton. No. 1,306,464; June 10; v. 263; p. 264.
- Signals, Electrical apparatus for transmitting or receiving. A. T. Dawson and G. T. Buckham. No. 1,306,410; June 10; v. 263; p. 254.
- Signals, Liquid system for operating. D. Brews. No. 1,326,388; Dec. 30; v. 269; p. 753.
- Signaling and other purposes, Aerial conductor for wireless, J. Hettinger. No. 1,309,031; July 8; v. 264; p. 217.
- Signaling and recording device, Electrically-operated. C. J. Ryberg. No. 1,317,321; Sept. 30; v. 266; p. 635.
- Signaling, &c. Antenna arrangement for wireless. G. Reuthe. No. 1,314,095; Aug. 26; v. 265; p. 508.
- Signaling apparatus. J. Keesey. No. 1,310,623; July 22; v. 264; p. 578.
- Signaling apparatus. J. A. Keesey and A. Shedlock. No. 1,301,271; Apr. 22; v. 261; p. 674.
- Signaling apparatus. J. Marshall. No. 1,326,522; Dec. 30; v. 269; p. 780.
- Signaling apparatus. F. W. Wood. No. 1,312,603; Aug. 12; v. 265; p. 172.
- Signaling apparatus. A. O. Wyrill. No. 1,321,968; Nov. 18; v. 268; p. 418.
- Signaling-apparatus casing. J. A. Keesey and A. Shedlock. No. 1,292,481; Jan. 28; v. 258; p. 667.
- Signaling-apparatus-operating mechanism. F. Aldrich. No. 1,298,271; Mar. 25; v. 260; p. 631.
- Signaling apparatus, Optical. C. S. McDowell. No. 1,309,441; July 8; v. 264; p. 293.
- Signaling apparatus, Selective. H. Hull. No. 1,318,670; Oct. 14; v. 267; p. 254.
- Signaling apparatus, Selective. L. M. Potts. No. 1,299,608; Apr. 8; v. 261; p. 254.
- Signaling apparatus, Submarine. C. S. Bookwalter and F. A. Daubin. No. 1,313,785; Aug. 19; v. 265; p. 415.
- Signaling appliance, Safety. H. N. C. Christie. No. 1,317,429; Sept. 30; v. 266; p. 655.
- Signaling attachment to trains. L. A. Jones and J. W. Clement. No. 1,302,804; May 6; v. 262; p. 61.
- Signaling by means of light, Apparatus for. G. Brodsky. No. 1,291,636; Jan. 14; v. 258; p. 410.
- Signaling-circuits, Composite. H. S. Osborne. No. 1,314,695; Sept. 2; v. 266; p. 42.
- Signaling-circuits, Composite. H. S. Osborne. No. 1,314,827; Sept. 2; v. 266; p. 66.
- Signaling-circuits, Composite. H. S. Osborne. No. 1,314,828; Sept. 2; v. 266; p. 66.
- Signaling device. C. H. Boardman. No. 1,304,936; May 27; v. 262; p. 564.
- Signaling device. T. E. Hanna. No. 1,291,858; Jan. 21; v. 258; p. 494.
- Signaling device. C. B. Harlow. No. 1,304,968; May 27; v. 262; p. 570.
- Signaling device. A. D. Hedges. No. 1,316,481; Sept. 16; v. 266; p. 393.
- Signaling device. W. Kaisling. No. 1,323,696; Dec. 2; v. 269; p. 88.
- Signaling device. C. F. Kay. No. 1,308,498; July 1; v. 264; p. 89.
- Signaling device. S. and T. J. McReynolds. No. 1,293,841; Feb. 11; v. 259; p. 233.
- Signaling device. E. Moard. No. 1,313,006; Aug. 12; v. 265; p. 251.
- Signaling device. L. Muir. No. 1,319,722; Oct. 28; v. 267; p. 502.
- Signaling device. R. F. Power. No. 1,311,995; Aug. 5; v. 265; p. 26.
- Signaling device. N. H. Tunks. No. 1,305,844; June 3; v. 263; p. 116.
- Signaling device. J. A. Wertz and P. G. Myers. No. 1,298,840; Apr. 1; v. 261; p. 52.
- Signaling device. F. F. Weishear and B. R. Draudt. No. 1,323,208; Nov. 25; v. 268; p. 703.
- Signaling device. J. W. White. No. 1,305,956; June 3; v. 263; p. 138.
- Signaling device, Auto speed-. J. H. Anthon and C. H. Feldmann. No. 1,318,638; Oct. 14; v. 267; p. 248.
- Signaling device, Electric. W. M. Horton. No. 1,303,901; May 20; v. 262; p. 331.
- Signaling device, Electric. R. R. Root. No. 1,314,703; Sept. 2; v. 266; p. 44.
- Signaling-device finger attachment. B. J. Jones. No. 1,296,088; Mar. 4; v. 260; p. 62.
- Signaling device for automobiles. J. A. Ward. No. 1,318,627; Oct. 14; v. 267; p. 246.
- Signaling device, Portable street. D. C. Stickrath. No. 1,315,049; Sept. 2; v. 266; p. 106.
- Signaling device, Railway and like mechanical. D. B. Miller. No. 1,303,707; May 13; v. 262; p. 257.
- Signaling, Electrical. L. Cohen. No. 1,313,070; Aug. 12; v. 265; p. 264.
- Signaling instrument. L. B. Salt. No. 1,302,715; May 6; v. 262; p. 44.
- Signaling instrument. F. G. Smith. No. 1,324,525; Dec. 9; v. 269; p. 291.
- Signaling means. W. L. Allen. No. 1,296,253; Mar. 4; v. 260; p. 100.
- Signaling means. L. S. Brach. No. 1,314,499; Sept. 2; v. 266; p. 4.
- Signaling means. W. Taylor, J. Miles, and H. Burden. No. 1,307,710; June 24; v. 263; p. 557.
- Signaling means, Overlap. S. N. Wight. No. 1,294,855; Feb. 18; v. 259; p. 505.
- Signaling mechanism, Polarized. D. S. Wilson. No. 1,309,750; July 15; v. 264; p. 388.
- Signaling mechanism for baling-machines. H. A. Kennedy. No. 1,320,010; Oct. 28; v. 267; p. 557.
- Signaling, Submarine. R. A. Fessenden. No. 1,311,157; July 29; v. 264; p. 710.
- Signaling, Submarine. R. A. Fessenden. No. 1,318,739; Oct. 14; v. 267; p. 267.
- Signaling, Submarine sound. J. Gardner. No. 1,310,011; July 15; v. 264; p. 435.
- Signaling system. J. H. Butridge. No. 1,322,178; Nov. 18; v. 268; p. 457.
- Signaling system. R. D. Conway. No. 1,324,798; Dec. 16; v. 269; p. 405.
- Signaling system. J. C. Field. No. 1,324,344; Dec. 9; v. 269; p. 256.



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- Signaling system. R. M. Hopkins. No. 1,311,649; July 29; v. 264; p. 801.
- Signaling system. W. K. Howe. No. 1,302,371; Apr. 29; v. 261; p. 914.
- Signaling system. A. E. Lundell and E. H. Clark. No. 1,312,791; Aug. 12; v. 265; p. 208.
- Signaling system. W. R. McNary. No. 1,316,312; Sept. 16; v. 266; p. 361.
- Signaling system. J. F. Moran. No. 1,306,074; June 10; v. 263; p. 189.
- Signaling system. C. S. Rhoads, Jr. No. 1,307,753; June 24; v. 263; p. 565.
- Signaling system. C. E. Scribner and J. L. McQuarrie. No. 1,312,809; Aug. 12; v. 265; p. 212.
- Signaling system. W. P. Sparboom. No. 1,309,821; July 15; v. 264; p. 400.
- Signaling system. Absolute and permissive block. J. Shoecraft. No. 1,311,718; July 29; v. 264; p. 814.
- Signaling system. Direct-current. B. F. Gardner. No. 1,301,425; Apr. 22; v. 261; p. 704.
- Signaling system. Electric. A. E. Lundell. No. 1,296,097; Mar. 4; v. 260; p. 64.
- Signaling system. Electrical railway. F. J. Marsh. No. 1,313,904; Aug. 26; v. 265; p. 471.
- Signaling system for transmitting information from a sending-station to one or more receiving-stations. J. L. Hall. No. 1,306,593; June 10; v. 263; p. 287.
- Signaling system of acoustic. J. H. Hammond, Jr. No. 1,320,686; Nov. 4; v. 268; p. 61.
- Signaling system. Party-line selective. T. C. Martin. No. 1,306,494; June 10; v. 263; p. 269.
- Signaling system. Radio. J. H. Rogers. No. 1,303,730; May 13; v. 262; p. 261.
- Signaling system. Secret. R. D. Parker. No. 1,312,572; Aug. 12; v. 265; p. 166.
- Signaling system. Secret. R. E. Pierce. No. 1,312,574; Aug. 12; v. 265; p. 167.
- Signaling system. Secret. G. S. Vernam. No. 1,310,719; July 22; v. 264; p. 595.
- Signaling system. Selective. J. B. Harlow. No. 1,291,861; Jan. 21; v. 258; p. 494.
- Signaling system. Selective. W. T. Powell. No. 1,306,716; June 17; v. 263; p. 343.
- Signaling system. Speed. F. B. Blakemore. No. 1,310,778; July 22; v. 264; p. 607.
- Signaling system. Wireless. E. F. W. Alexanderson. No. 1,313,042; Aug. 12; v. 265; p. 258.
- Signaling system. Wireless. J. R. Carson. No. 1,309,459; July 8; v. 264; p. 296.
- Signaling system. Wireless. A. N. Goldsmith. No. 1,323,759; Dec. 2; v. 269; p. 100.
- Signaling system. Wireless. I. Langmuir. No. 1,313,093; Aug. 12; v. 265; p. 268.
- Signaling system. Wireless. J. H. Rogers. No. 1,303,729; May 13; v. 262; p. 261.
- Signaling system. Wireless. J. H. Rogers and H. H. Lyon. No. 1,322,622; Nov. 25; v. 268; p. 593.
- Signaling system. Wireless. W. C. White. No. 1,310,041; July 15; v. 264; p. 440.
- Signaling systems. Answer-back for. C. S. Rhoades, Jr. No. 1,309,369; July 8; v. 264; p. 279.
- Signature-handling device. M. Christensen. No. 1,297,444; Mar. 18; v. 260; p. 428.
- Signature-handling device. J. Sproul. No. 1,294,559; Feb. 18; v. 259; p. 436.
- Signature-handling mechanism. E. R. Kast. No. 1,291,913; Jan. 21; v. 258; p. 509.
- Signatures. Machine for making. A. L. Grammer. No. 1,326,860; Dec. 30; v. 269; p. 843.
- Signatures. Making. A. L. Grammer. No. 1,326,859; Dec. 30; v. 269; p. 843.
- Silencer. W. G. Wilson. No. 1,313,971; Aug. 26; v. 265; p. 485.
- Silica from rice-hulls, &c., Extraction of. G. Blardone. No. 1,293,008; Feb. 4; v. 259; p. 9.
- Silica gel and making same. W. A. Patrick. No. 1,297,724; Mar. 18; v. 260; p. 488.
- Silicates containing potassium and aluminium. Treating. L. A. Eberhardt. No. 1,310,418; July 22; v. 264; p. 540.
- Silicates. Decomposing natural. B. A. Peacock. No. 1,310,770; July 22; v. 264; p. 605.
- Silk and silk-wastes. Producing foam or froth baths for ungumming. P. Schmid. No. 1,313,235; Aug. 12; v. 265; p. 296.
- Silk fibers. Treating. T. Muto. No. 1,296,601; Mar. 4; v. 260; p. 176.
- Silk waste for spinning into yarn. Treating artificial. W. R. D. Hall. No. 1,303,301; May 13; v. 262; p. 184.
- Silk with reserves for the purpose of increasing its strength and elasticity. Treatment of. J. Korselt. No. 1,318,339; Oct. 7; v. 267; p. 130.
- Sill and fender construction. Bonnet. D. G. Roos. No. 1,326,879; Dec. 30; v. 269; p. 847.
- Silo. H. E. Baker. No. 1,304,521; May 20; v. 262; p. 449.
- Silo. O. A. Coons. No. 1,313,369; Aug. 19; v. 265; p. 337.
- Silo. J. Grossnickle. No. 1,314,644; Sept. 2; v. 266; p. 32.
- Silo. L. D. Hart. No. 1,301,051; Apr. 15; v. 261; p. 593.
- Silo. C. A. Iglehart. No. 1,292,472; Jan. 28; v. 258; p. 665.
- Silo. W. H. Monroe. No. 1,314,531; Sept. 2; v. 266; p. 10.
- Silo. F. J. Van Cott. No. 1,301,624; Apr. 22; v. 261; p. 741.
- Silo. E. F. Wiederholdt. No. 1,311,366; July 29; v. 264; p. 749.
- Silo-base anchor. H. B. Curry. No. 1,305,692; June 3; v. 263; p. 88.
- Silo-bracing system. J. M. Houff. No. 1,316,895; Sept. 23; v. 266; p. 518.
- Silo-cleat. M. Traub. No. 1,311,360; July 29; v. 264; p. 748.
- Silo. Coal-. T. B. Adams. No. 1,317,771; Oct. 7; v. 267; p. 21.
- Silo-door construction. J. B. Strunk. No. 1,309,109; July 8; v. 264; p. 232.
- Silo-door. Shiftable. J. L. Griswold. No. 1,322,690; Nov. 25; v. 268; p. 605.
- Silo ensilage-packer. G. F. Kiblinger. No. 1,294,674; Feb. 18; v. 259; p. 463.
- Silos and tanks. Tension-lug for. E. E. Hawkins. No. 1,315,120; Sept. 2; v. 266; p. 118.
- Silos. Stave for. C. H. Busch. No. 1,320,989; Nov. 4; v. 268; p. 119.
- Silos, &c. Tension-lug for. E. E. Hawkins. No. 1,315,119; Sept. 2; v. 266; p. 118.
- Silt-gate. W. Harris. No. 1,297,843; Mar. 18; v. 260; p. 513.
- Silver-cleaning compound. G. Kosta. No. 1,315,630; Sept. 9; v. 266; p. 220.
- Silver from ore, Extracting. M. H. Caron. No. 1,298,454; Mar. 25; v. 260; p. 669.
- Silvering process. M. F. Permuy. No. 1,324,690; Dec. 9; v. 269; p. 322.
- Sine-bar. A. Schachat. No. 1,308,451; July 1; v. 264; p. 81.
- Sine-bar fixture. E. J. Bryant. No. 1,303,633; May 13; v. 262; p. 243.
- Singeing apparatus. Element for. T. F. Hussa. No. 1,321,828; Nov. 18; v. 268; p. 392.
- Singeing apparatus. Element for. T. F. Hussa. No. 1,324,051; Dec. 9; v. 269; p. 200.
- Single-trigger device. G. H. Giddings. No. 1,302,910; May 6; v. 262; p. 82.
- Sink attachment. J. E. Zboyan. No. 1,313,153; Aug. 12; v. 265; p. 280.
- Sink, basin, and the like, Folding. J. L. Shroyer. No. 1,317,829; Oct. 7; v. 267; p. 32.
- Sink, Kitchen. M. W. Franzheim. No. 1,296,178; Mar. 4; v. 260; p. 84.
- Sinks. Splash-guard for kitchen. B. Henning. No. 1,302,658; May 6; v. 262; p. 33.
- Sintering apparatus. W. P. Reckard. No. 1,308,864; July 8; v. 264; p. 185.
- Sintering-machine. W. M. Davison and G. C. Riddell. No. 1,315,910; Sept. 9; v. 266; p. 272.
- Siphon. N. M. Chandler. No. 1,324,383; Dec. 9; v. 269; p. 264.
- Siphon-bowl. H. T. Cronk. No. 1,301,821; Apr. 29; v. 261; p. 811.
- Siphon construction. T. I. Weston. No. 1,297,280; Mar. 11; v. 260; p. 364.
- Siphon flush-tank. J. N. Murphy. No. 1,298,549; Mar. 25; v. 260; p. 690.
- Siphon. Portable. C. Scoville. No. 1,317,324; Sept. 30; v. 226; p. 635.
- Siren. O. S. Burke. No. 1,323,826; Dec. 2; v. 269; p. 113.
- Size. Making resin. J. A. De Cew. No. 1,292,721; Jan. 28; v. 258; p. 726.
- Sizer and grader. A. M. O'Quinn. No. 1,293,175; Feb. 4; v. 259; p. 46.
- Sizer and grader. A. M. O'Quinn. No. 1,293,176; Feb. 4; v. 259; p. 46.
- Sizing. C. H. Bennett. No. 1,299,663; Apr. 8; v. 261; p. 267.
- Sizing and separating comminuted material. Process and apparatus for. H. M. Sutton and W. L. and E. G. Steele. No. 1,315,880; Sept. 9; v. 266; p. 266.
- Sizing apparatus. G. Sykes. No. 1,295,812; Feb. 25; v. 259; p. 748.
- Sizing-machine. W. G. Price. No. 1,325,909; Dec. 23; v. 269; p. 628.
- Skate. W. P. Kerrigan. No. 1,319,094; Oct. 21; v. 267; p. 360.
- Skate. J. M. Leake. No. 1,310,421; July 22; v. 264; p. 541.
- Skate. H. G. Macwilliam. No. 1,316,251; Sept. 16; v. 266; p. 349.
- Skate attachment, Ice-. N. Sadowsky. No. 1,310,137; July 15; v. 264; p. 458.
- Skate-key. W. H. Needham. No. 1,322,331; Nov. 18; v. 268; p. 486.
- Skate, Roller-. C. & J. J. Jorgensen. No. 1,299,578; Apr. 8; v. 261; p. 247.
- Skate, Roller-. J. Steiger. No. 1,314,159; Aug. 26; v. 265; p. 520.
- Skate, Roller-. W. Ware. No. 1,294,984; Feb. 18; v. 259; p. 534.

- Skate-strap. H. J. Collis. No. 1,319,269; Oct. 21; v. 267; p. 394.
- Skate, Tubular ice-. W. F. Reach. No. 1,292,876; Jan. 28; v. 258; p. 762.
- Skates, Roll or wheel for roller-. J. M. Leake. No. 1,312,835; Aug. 12; v. 265; p. 221.
- Skating track, Roller-. W. A. McCoy. No. 1,325,026; Dec. 16; v. 269; p. 446.
- Skee-harness. W. F. Reach. No. 1,322,820; Nov. 25; v. 268; p. 629.
- Skee-skoot. L. D. Pangborn. No. 1,313,502; Aug. 19; v. 265; p. 362.
- Skein-holder. K. S. Cook. No. 1,310,741; July 22; v. 264; p. 600.
- Skelp, Dressing. J. W. Latshaw. No. 1,303,925; May 20; v. 262; p. 335.
- Sketch-board. R. B. Ware. No. 1,290,811; Jan. 7; v. 258; p. 192.
- Sketching or writing service, Portable illuminating. C. W. Dimond. No. 1,320,537; Nov. 4; v. 268; p. 34.
- Skid and standard, Combination. W. R. Golding. No. 1,293,083; Feb. 4; v. 259; p. 26.
- Skidway. E. D. Newinger. No. 1,320,408; Nov. 4; v. 268; p. 10.
- Skimmer, Boiler-. E. N. Phillips and H. H. Dick. No. 1,318,912; Oct. 14; v. 267; p. 300.
- Skin and paper material. A. Whist. No. 1,300,535; Apr. 15; v. 261; p. 483.
- Skin-stretcher. E. L. Guy. No. 1,320,223; Oct. 28; v. 267; p. 596.
- Skins, Bridge or bar for unhairing fur-. F. M. Wegner. No. 1,304,637; May 27; v. 262; p. 509.
- Skins, Method and apparatus for drying and stretching. A. H. Schmidt. No. 1,320,100; Oct. 28; v. 267; p. 574.
- Skins, &c., Nailing-machine for-. S. J. Stappler. No. 1,315,645; Sept. 9; v. 266; p. 222.
- Skirt and breeches, Convertible. C. D. Thoma. No. 1,297,932; Mar. 18; v. 260; p. 532.
- Skirt-fitting device. L. Barceloux. No. 1,318,474; Oct. 14; v. 267; p. 216.
- Skirt-gage. A. McClintock. No. 1,295,336; Feb. 25; v. 259; p. 637.
- Skirt-gage. M. Rucker. No. 1,319,248; Oct. 21; v. 267; p. 390.
- Skirt-marker. D. W. James. No. 1,321,375; Nov. 11; v. 268; p. 256.
- Skirt-measure. J. Remy. No. 1,292,056; Jan. 21; v. 258; p. 545.
- Skirt-supporter. E. J. Maher. No. 1,304,340; May 20; v. 262; p. 413.
- Skirt-supporter. I. Yablon and C. Weis. No. 1,311,852; July 29; v. 264; p. 839.
- Skiving-knife. A. M. Alexander. No. 1,305,863; June 3; v. 263; p. 120.
- Skiving-knife. E. F. Davenport. No. 1,322,094; Nov. 18; v. 268; p. 440.
- Skiving-machine. A. M. Alexander. No. 1,318,343; Oct. 14; v. 267; p. 191.
- Skiving-machine. N. V. Dyer. No. 1,308,776; July 8; v. 264; p. 169.
- Skiving-machine. E. E. Lane. No. 1,300,628; Apr. 15; v. 261; p. 502.
- Skiving-machine. A. Latham. No. 1,301,283; Apr. 22; v. 261; p. 677.
- Skiving machine, Counter-. R. P. Grant. No. 1,309,407; July 8; v. 264; p. 286.
- Skiving-machines, Blank-feeding mechanism for. J. H. Pope. No. 1,305,236; May 27; v. 262; p. 621.
- Skiving-machines, Scrap-guiding attachment for amazeen. J. H. La Bate. No. 1,326,350; Dec. 30; v. 269; p. 746.
- Skylight construction. M. Walten. No. 1,299,880; Apr. 8; v. 261; p. 316.
- Slab for building purposes, Composite. P. M. Stewart. No. 1,308,306; July 1; v. 264; p. 55.
- Slabs, billets, &c., Machine for charging. E. E. Brosius. No. 1,313,619; Aug. 19; v. 265; p. 384.
- Slack-adjuster. T. L. Burton. No. 1,309,934; July 15; v. 264; p. 422.
- Slack-adjuster. W. H. Sauvage. No. 1,298,571; Mar. 25; v. 260; p. 694.
- Slack-adjuster. W. H. Sauvage. No. 1,298,572; Mar. 25; v. 260; p. 694.
- Slack-adjuster. W. H. Sauvage. No. 1,298,573; Mar. 25; v. 260; p. 695.
- Slack-adjuster. W. H. Sauvage. No. 1,298,574; Mar. 25; v. 260; p. 695.
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- Slack-adjuster. W. H. Sauvage. No. 1,298,576; Mar. 25; v. 260; p. 695.
- Slack-adjuster, Automatic. W. D. Neils. No. 1,291,086; Jan. 14; v. 258; p. 283.
- Slack-adjuster, Automatic. W. V. Turner. No. 1,294,976; Feb. 18; v. 259; p. 532.
- Slack-adjuster, Brake. T. L. Burton. No. 1,300,933; July 15; v. 264; p. 422.
- Slack adjuster, Draw-bar-. P. H. Donovan. No. 1,307,087; June 17; v. 263; p. 411.
- Slack-thread producer. A. E. Stafford. No. 1,292,382; Jan. 21; v. 258; p. 623.
- Slag-remover. J. H. Abel. No. 1,303,225; May 13; v. 262; p. 171.
- Slags, Treating. U. A. Garred. No. 1,319,061; Oct. 21; v. 267; p. 354.
- Slaughtering apparatus. W. H. Hosken. No. 1,313,383; Aug. 19; v. 265; p. 339.
- Sled. W. Falwell. No. 1,299,444; Apr. 8; v. 261; p. 216.
- Sled. A. Gross. No. 1,318,747; Oct. 14; v. 267; p. 268.
- Sled. B. C. Knudsen. No. 1,298,355; Mar. 25; v. 260; p. 647.
- Sled. K. Matheus. No. 1,318,166; Oct. 7; v. 267; p. 96.
- Sled. A. Rigda. No. 1,316,596; Sept. 23; v. 266; p. 463.
- Sled attachment. L. Leicht. No. 1,304,331; May 20; v. 262; p. 411.
- Sled, Automobile-wheel. L. N. Kelly. No. 1,313,823; Aug. 19; v. 265; p. 422.
- Sled, Bicycle-. J. Pilusheczak. No. 1,291,115; Jan. 14; v. 258; p. 289.
- Sled-brake. R. W. D. Ainsworth. No. 1,296,033; Mar. 4; v. 260; p. 50.
- Sled-brake. P. Hechkozech. No. 1,299,338; Apr. 1; v. 261; p. 164.
- Sled, Coaster-. C. R. Austin. No. 1,294,375; Feb. 18; v. 259; p. 392.
- Sled device, Self-propelled-. J. Schreiber. No. 1,320,280; Oct. 28; v. 267; p. 607.
- Sled, Folding. C. Aldrich. No. 1,300,095; Apr. 8; v. 261; p. 363.
- Sled-iron. S. L. Rogers. No. 1,291,159; Jan. 14; v. 258; p. 299.
- Sled, Motor-. J. Fjarli. No. 1,292,393; Jan. 21; v. 258; p. 625.
- Sled, Motor-. L. Hasselknippe. No. 1,291,500; Jan. 14; v. 258; p. 377.
- Sled, Motor-. F. G. Horner. No. 1,314,666; Sept. 2; v. 266; p. 37.
- Sled, Motor-propelled. H. Smedshammer. No. 1,293,958; Feb. 11; v. 259; p. 259.
- Sled, Power-driven. C. C. Brayton and A. A. Allan. No. 1,305,644; June 3; v. 263; p. 79.
- Sled, Self-propelled. C. W. Matson. No. 1,302,193; Apr. 29; v. 261; p. 880.
- Sled, Tractor-. F. G. Horner. No. 1,314,667; Sept. 2; v. 266; p. 37.
- Sleeping-bag. A. F. Fink and F. O. Hill. No. 1,315,294; Sept. 9; v. 266; p. 160.
- Sleeping-case. C. A. Hope. No. 1,324,009; Dec. 2; v. 269; p. 148.
- Sleeve-form, Adjustable and collapsible. A. D. Bailey. No. 1,290,872; Jan. 14; v. 258; p. 231.
- Sleeve, Insulating-. A. Aichele. No. 1,296,731; Mar. 11; v. 260; p. 242.
- Sleeve-pattern and producing same. M. P. Hardin. No. 1,303,477; May 13; v. 262; p. 215.
- Sleeve-protector. J. F. Riley. No. 1,296,430; Mar. 4; v. 260; p. 137.
- Sleigh. W. M. Seifert. No. 1,310,252; July 15; v. 264; p. 479.
- Sleigh and sled, Hand. T. R. Brien. No. 1,303,632; May 13; v. 262; p. 243.
- Sleigh, Bicycle-. T. Doroszuk. No. 1,324,342; Dec. 9; v. 269; p. 255.
- Sleigh, Motor-. N. Crane. No. 1,308,937; July 8; v. 264; p. 199.
- Sleigh, Motor-. W. J. Roecker. No. 1,299,862; Apr. 8; v. 261; p. 312.
- Sleigh, Motor-cycle. A. Hammers. No. 1,306,428; June 10; v. 263; p. 257.
- Sleigh, Motor-driven. T. H. Parkinson. No. 1,314,896; Sept. 2; v. 266; p. 78.
- Sleigh-runner knee. J. Van Beek. No. 1,293,581; Feb. 4; v. 259; p. 141.
- Sleigh, Tri-runner. A. E. Cowan. No. 1,303,637; May 13; v. 262; p. 244.
- Sleighs, Propelling mechanism for automotive. S. J. Tompkins. No. 1,326,548; Dec. 30; v. 269; p. 785.
- Sllice-collector. E. M. Stiles. No. 1,324,214; Dec. 9; v. 269; p. 231.
- Slicer. J. Meierski. No. 1,320,261; Oct. 28; v. 267; p. 604.
- Slicer and peeler, Fruit and vegetable. W. L. McLean. No. 1,304,079; May 20; v. 262; p. 363.
- Slicer, Bread-. C. W. Clarke. No. 1,317,430; Sept. 30; v. 266; p. 655.
- Slicer, Fruit and vegetable. C. E. Miller. No. 1,326,082; Dec. 23; v. 269; p. 660.
- Slicer, Meat-. C. H. Herod. No. 1,323,054; Nov. 25; v. 268; p. 673.
- Slicer, Vegetable-. R. D. Smith and H. A. Steele. No. 1,317,050; Sept. 23; v. 266; p. 547.
- Slicing and sawing device. E. E. Ehrlich. No. 1,290,528; Jan. 7; v. 258; p. 124.
- Slicing apparatus. S. Riehel. No. 1,302,592; May 6; v. 262; p. 20.
- Slicing-knife, Adjustable. C. H. Krapf. No. 1,305,906; June 3; v. 263; p. 127.
- Slicing-machine. E. K. Hood. No. 1,311,847; July 29; v. 264; p. 838.
- Slicing-machine. A. R. Lushka and J. Folk. No. 1,310,197; July 15; v. 264; p. 469.
- Slicing-machine. A. R. Lushka and J. Folk. No. 1,314,598; Sept. 2; v. 266; p. 23.



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- Slicing machine. A. Schaffer. No. 1,291,178; Jan. 14; v. 258; p. 503.
- Slicing-machine. A. A. Unruh. No. 1,292,160; Jan. 21; v. 258; p. 571.
- Slicing-machine. J. T. Willis. No. 1,318,038; Oct. 7; v. 261; p. 12.
- Slicing-machine. W. B. Wolff and E. K. Hood. No. 1,311,479; July 29; v. 264; p. 770.
- Slicing-machine. J. C. Woodington. No. 1,314,560; Sept. 2; v. 266; p. 16.
- Slicing machine, Bread-. R. Hara. No. 1,323,591; Dec. 2; v. 269; p. 69.
- Slicing-machine, Clamp for. C. F. M. van Berkel. No. 1,315,751; Sept. 9; v. 266; p. 241.
- Slicing-machine, coffee-grinder, and scale, Sanitary automatic. M. De Cesare. No. 1,324,801; Dec. 16; v. 269; p. 405.
- Slicing-machine holder. E. M. Stiles. No. 1,294,562; Feb. 18; v. 259; p. 436.
- Slicing machine, Multiple-. C. Sonnemann. No. 1,313,753; Aug. 19; v. 265; p. 409.
- Slicing-machine stacker. C. F. M. van Berkel. No. 1,290,425; Jan. 7; v. 258; p. 99.
- Slicing-machine stacker. E. M. Stiles. No. 1,290,402; Jan. 7; v. 258; p. 93.
- Slicing machine, Vegetable and fruit. A. L. Engelbach. No. 1,323,073; Nov. 25; v. 268; p. 677.
- Slicing-machine work-holder. E. M. Stiles. No. 1,294,561; Feb. 18; v. 259; p. 436.
- Slicing-machines, Feed mechanism for. E. A. Hand and E. A. Wygant. No. 1,310,752; July 22; v. 264; p. 602.
- Slicing-machines, Rind-knife for. A. R. Luschka and J. Folk. No. 1,309,417; July 8; v. 264; p. 288.
- Slicing-machines, Slice-stacking device for. W. B. Wolff and E. K. Hood. No. 1,311,480; July 29; v. 264; p. 770.
- Slicing-machines, Stack-former for. C. F. M. van Berkel. No. 1,310,261; July 15; v. 264; p. 480.
- Slicing-machines, Stack-spacer for. C. F. M. van Berkel. No. 1,310,262; July 15; v. 264; p. 481.
- Slicing-machines, Work-holder for. A. M. Demuth. No. 1,309,395; July 8; v. 264; p. 284.
- Slide. W. P. Smith. No. 1,324,699; Dec. 9; v. 269; p. 324.
- Slide, Child's. M. E. Turner. No. 1,311,580; June 29; v. 264; p. 789.
- Slide-closure. C. D. Coker. No. 1,313,580; Aug. 19; v. 265; p. 377.
- Slides, Method and apparatus for controlling bill and embankment. D. D. McBean. No. 1,323,884; Dec. 2; v. 269; p. 124.
- Sliding-bolt lock, Combination key-controlled. P. Miano. No. 1,295,557; Feb. 25; v. 259; p. 690.
- Sliding doors, Hanger for. J. H. Stewart. No. 1,305,021; May 27; v. 262; p. 580.
- Slimes, Treatment of electrolytic. W. C. Ferguson. No. 1,305,787; June 3; v. 263; p. 105.
- Slimes, Treatment of electrolytic. W. C. Ferguson. No. 1,305,788; June 3; v. 263; p. 105.
- Sling. A. A. Lethern. No. 1,323,701; Dec. 2; v. 269; p. 89.
- Sling, Arm-. R. M. Bugge. No. 1,304,153; May 20; v. 262; p. 377.
- Slip. C. S. Wright. No. 1,298,619; Mar. 25; v. 260; p. 704.
- Slip and gap gages, &c., Machine for grinding and lapping. W. C. Pitter. No. 1,316,506; Sept. 16; v. 266; p. 398.
- Slip-joint. D. H. Bowlzer. No. 1,295,106; Feb. 25; v. 259; p. 585.
- Slipper-holder. J. J. Leckey. No. 1,326,749; Dec. 30; v. 269; p. 822.
- Slipper, Washable. A. Hale and R. H. Newell. No. 1,290,547; Jan. 7; v. 258; p. 129.
- Slitting and rewinding machine. J. A. Cameron and G. B. Birch. No. 1,310,153; July 15; v. 264; p. 461.
- Slitting and rewinding machine. J. A. Cameron and G. B. Birch. No. 1,314,780; Sept. 2; v. 266; p. 58.
- Slitting and rewinding machine. J. A. Cameron and G. B. Birch. No. 1,326,644; Dec. 30; v. 269; p. 802.
- Sliver-cleaner flier. E. F. Benoit. No. 1,325,345; Dec. 16; v. 269; p. 506.
- Sliver-lap and ribbon-lap machines, Guard for. M. T. O'Malley. No. 1,306,711; June 17; v. 263; p. 342.
- Slotting-machine. A. Forster. No. 1,294,646; Feb. 18; v. 259; p. 456.
- Slow-acting device. W. P. Neubert. No. 1,310,500; July 22; v. 264; p. 555.
- Stub-remover. E. J. Abbott. No. 1,311,788; July 29; v. 264; p. 827.
- Sludge-press. W. Buckley. No. 1,316,419; Sept. 16; v. 266; p. 381.
- Sludge-press plate. W. Buckley. No. 1,316,418; Sept. 16; v. 266; p. 381.
- Sludge removal, Method and apparatus for. T. F. Callahan. No. 1,326,321; Dec. 30; v. 269; p. 741.
- Slug-casting machine. D. S. Kennedy. No. 1,309,415; July 8; v. 264; p. 288.
- Sluice. C. Guilmar. No. 1,303,295; May 13; v. 262; p. 183.
- Sluice-gate. E. L. Broome. No. 1,306,370; June 10; v. 263; p. 247.
- Small-arm. J. Del Greco. No. 1,303,887; May 20; v. 262; p. 329.
- Smelting process and apparatus. F. H. F. Hampton. No. 1,315,551; Sept. 9; v. 266; p. 206.
- Smoke apparatus. T. S. Wilkinson. No. 1,303,749; May 13; v. 262; p. 265.
- Smoke-consumer. F. A. De Erb, Jr. No. 1,326,033; Dec. 23; v. 269; p. 651.
- Smoke-consumer. J. H. Ginther. No. 1,311,224; July 29; v. 264; p. 722.
- Smoke-consumer. S. P. Munn. No. 1,301,588; Apr. 22; v. 261; p. 734.
- Smoke-consuming furnace. O. Lox. No. 1,302,061; Apr. 29; v. 261; p. 857.
- Smoke-dispenser. I. Irina. No. 1,301,563; Apr. 22; v. 261; p. 729.
- Smoke-filter, Metallurgical. W. H. Bates, Jr. No. 1,302,281; Apr. 29; v. 261; p. 897.
- Smoke-generator. A. C. Legg. No. 1,302,682; May 6; v. 262; p. 38.
- Smoke-house. O. F. Neff. No. 1,302,952; May 6; v. 262; p. 90.
- Smoke-jack. J. W. Orrock. No. 1,314,016; Aug. 26; v. 265; p. 493.
- Smoke-stick. E. Flanagan. No. 1,320,219; Oct. 28; v. 267; p. 595.
- Smoke-preventer. B. L. Ames. No. 1,309,172; July 8; v. 264; p. 243.
- Smoker's case, Combined. W. P. Lewis. No. 1,326,070; Dec. 23; v. 269; p. 658.
- Smoker's implement. F. P. Williams. No. 1,316,343; Sept. 16; v. 266; p. 367.
- Smoker's utensil. J. Gregor. No. 1,301,933; Apr. 29; v. 261; p. 832.
- Smoking device. L. Falkenau. No. 1,313,280; Aug. 19; v. 265; p. 321.
- Smoking-pipe. J. M. Bowen. No. 1,295,419; Feb. 25; v. 259; p. 657.
- Smoking-pipe. E. B. Grace. No. 1,304,475; May 20; v. 262; p. 440.
- Smoking-pipe. Jas. A. Irving. No. 1,310,404; July 15; v. 264; p. 506.
- Smokeless boiler. E. C. Wiley. No. 1,318,123; Oct. 7; v. 267; p. 88.
- Smokestack. W. Hawker. No. 1,322,565; Nov. 25; v. 268; p. 582.
- Smokestack. J. J. Reilly. No. 1,325,376; Dec. 16; v. 269; p. 511.
- Snut, Machine for treating. A. Struble. No. 1,312,647; Aug. 12; v. 265; p. 181.
- Snap. S. Hirsch. No. 1,326,055; Dec. 23; v. 269; p. 655.
- Snap-fastener. C. F. Backmyer. No. 1,308,140; July 1; v. 264; p. 25.
- Snap-fastener. F. Goubert. No. 1,299,325; Apr. 1; v. 261; p. 161.
- Snap-fastener. L. S. Kositchek. No. 1,292,804; Jan. 28; v. 258; p. 745.
- Snap-fastener. A. C. Mercer. No. 1,319,102; Oct. 21; v. 267; p. 361.
- Snap-fastener. S. Milano. No. 1,296,001; Mar. 4; v. 260; p. 41.
- Snap-fastener. I. Moss. No. 1,314,688; Sept. 2; v. 266; p. 41.
- Snap-fastener. A. S. O. Nelson. No. 1,309,586; July 8; v. 264; p. 320.
- Snap-fastener. H. S. Normand. No. 1,315,569; Sept. 9; v. 266; p. 210.
- Snap-fastener. F. H. Ogden. No. 1,305,233; May 27; v. 262; p. 621.
- Snap-fastener. J. H. Pilkington. No. 1,325,577; Dec. 23; v. 269; p. 566.
- Snap-fastener. G. A. Reitzel. No. 1,315,415; Sept. 9; v. 266; p. 182.
- Snap-fastener springs, Forming and assembling. A. J. Lewis. No. 1,305,132; May 27; v. 262; p. 601.
- Snap-fasteners, Machine for making. M. F. Kiessling. No. 1,326,132; Dec. 23; v. 269; p. 669.
- Snap-fasteners, Stud member for. A. J. Lewis. No. 1,320,876; Nov. 4; v. 268; p. 97.
- Snap-gage. C. Linden. No. 1,322,029; Nov. 18; v. 268; p. 429.
- Snap-gage. A. W. Mitchell. No. 1,314,888; Sept. 2; v. 266; p. 77.
- Snap-hook. W. T. Durham. No. 1,308,055; July 1; v. 264; p. 9.
- Snap-hook. J. R. Reyburn and C. D. Sagendorf. No. 1,296,217; Mar. 4; v. 260; p. 92.
- Snap-hook. J. Sandstrom. No. 1,310,548; July 22; v. 264; p. 564.
- Snap-hook guard and liner. J. M. Holdford. No. 1,290,198; Jan. 7; v. 258; p. 44.
- Snap-hook, Safety. P. L. Plank. No. 1,293,543; Feb. 4; v. 259; p. 132.
- Snap-lock. A. W. Prescott. No. 1,297,591; Mar. 18; v. 260; p. 459.
- Snap-switch. R. B. Benjamin. No. 1,293,309; Feb. 4; v. 259; p. 78.
- Snap-switch. C. C. Stirling. No. 1,306,360; June 10; v. 263; p. 245.
- Snap-switch, Rotary. J. P. Hayes and J. E. Barnhart. No. 1,305,541; June 3; v. 263; p. 59.
- Snipers and for other purposes, Apparatus for locating. D. W. Brunton. No. 1,308,474; July 1; v. 264; p. 85.

- Snow-gatherer. F. Pataye. No. 1,300,764; Apr. 15; v. 261; p. 531.
- Snow-melting device. W. Görgy. No. 1,298,200. Mar. 25; v. 260; p. 615.
- Snow-melting machine. E. A. Smith. No. 1,300,035; Apr. 8; v. 261; p. 349.
- Snow-melting machine and operating same. S. Friedman. (Reissue.) No. 14,754; Nov. 18; v. 268; p. 520.
- Snow-plow. G. Gulich. No. 1,326,658; Dec. 30; v. 269; p. 805.
- Snow plow and loader. W. L. Stadig. No. 1,314,762; Sept. 2; v. 266; p. 54.
- Snow-plow, Hand. N. Shun. No. 1,319,972; Oct. 28; v. 267; p. 550.
- Snow pusher and shovel, Combined. R. R. Starrett and G. W. Round. No. 1,319,912; Oct. 28; v. 267; p. 539.
- Snow-remover. H. B. Ivers. No. 1,326,347; Dec. 30; v. 269; p. 746.
- Snow-removing machine. J. J. Ryan. No. 1,310,546; July 22; v. 264; p. 564.
- Snubber. F. H. Snyder. No. 1,325,121; Dec. 16; v. 269; p. 465.
- Soap, Apparatus for hardening and molding. F. A. Seccord. No. 1,294,545; Feb. 18; v. 259; p. 432.
- Soap-coating. H. J. Harshberger. No. 1,325,361; Dec. 16; v. 269; p. 509.
- Soap-connector. E. A. Key. No. 1,318,567; Oct. 14; v. 267; p. 234.
- Soap-container. H. W. Remington. No. 322,729; Nov. 25; v. 268; p. 612.
- Soap, Container for. W. C. Schwab. No. 1,309,965; July 15; v. 264; p. 428.
- Soap-container, Self-draining. F. E. Perkins. No. 1,311,666; July 29; v. 264; p. 805.
- Soap-cover and soap-applying device. M. Wolf. No. 1,292,982; Jan. 28; v. 258; p. 787.
- Soap-cutter. G. Bauer. No. 1,319,371; Oct. 21; v. 264; p. 413.
- Soap-cutter. J. E. McKerlie. No. 1,312,335; Aug. 5; v. 265; p. 89.
- Soap-dispenser. D. L. Kimball. No. 1,312,912; Aug. 12; v. 265; p. 232.
- Soap-dispenser. A. W. McCord. No. 1,305,476; June 3; v. 263; p. 46.
- Soap-dispenser. W. C. Morrill. No. 1,292,848; Jan. 28; v. 258; p. 755.
- Soap-dispenser. W. H. Rose. No. 1,326,880; Dec. 30; v. 269; p. 847.
- Soap dispenser, Liquid. R. E. Lee. No. 1,325,567; Dec. 23; v. 269; p. 564.
- Soap dispenser, Liquid. C. E. Post and P. G. Wagner. No. 1,319,898; Oct. 28; v. 267; p. 536.
- Soap dispenser, Liquid. W. H. Rose. No. 1,308,258; July 1; v. 264; p. 46.
- Soap-dispensing device, Liquid. E. G. Watrous. No. 1,290,435; Jan. 7; v. 258; p. 101.
- Soap-dispensing receptacle. W. L. Abby. No. 1,292,983; Feb. 4; v. 259; p. 3.
- Soap-dissolver. J. L. Locke. No. 1,295,536; Feb. 25; v. 259; p. 684.
- Soap, Dye. L. C. Cates. No. 1,307,113; June 17; v. 263; p. 416.
- Soap-flaker. H. A. Staab. No. 1,314,026; Aug. 26; v. 265; p. 495.
- Soap-holder. W. J. Long. No. 1,301,720; Apr. 22; v. 261; p. 760.
- Soap-holder. C. L. May. No. 1,305,918; June 3; v. 263; p. 130.
- Soap-holder. S. D. Narber. No. 1,312,420; Aug. 5; v. 265; p. 106.
- Soap or saponaceous composition and manufacturing same. W. Feldenheimer. No. 1,321,516; Nov. 11; v. 268; p. 282.
- Soap-press and perforating-labeler. V. F. Carl. No. 1,326,573; Dec. 30; v. 269; p. 789.
- Soap-pressing machine. R. A. Jones. No. 1,309,986; July 15; v. 264; p. 431.
- Soap stick for shaving purposes. W. J. Henderson. No. 1,320,855; Nov. 4; v. 268; p. 94.
- Soap-tray. W. B. Wills. No. 1,320,814; Nov. 4; v. 268; p. 86.
- Soaping implement. M. Klenetzky. No. 1,290,238; Jan. 7; v. 258; p. 54.
- Soapsuds, Reusing previously-used. H. M. Gray. No. 1,312,477; Aug. 5; v. 265; p. 117.
- Sock-puller. A. Deiley. No. 1,315,096; Sept. 2; v. 266; p. 114.
- Socket. F. C. De Reamer. No. 1,316,975; Sept. 23; v. 266; p. 533.
- Socket, Bow. E. E. Adams. No. 1,307,105; June 17; v. 263; p. 414.
- Socket for fasteners. D. Bourque. No. 1,300,338; Apr. 15; v. 261; p. 441.
- Socket for fasteners. D. Bourque. No. 1,305,520; June 3; v. 263; p. 55.
- Socket or device for receiving or bearing screws such as are employed for fastening purposes. J. C. Gordon. No. 1,311,646; July 29; v. 264; p. 801.
- Socket or plug, Expansion. O. E. Droege and G. A. Robinson. No. 1,296,374; Mar. 4; v. 260; p. 126.
- Socket, Porcelain. J. Weber. No. 1,292,689; Jan. 28; v. 258; p. 713.
- Socket, Toggle. W. J. Newton. No. 1,302,415; Apr. 29; v. 261; p. 923.
- Socket, Wing-post. H. Kleckler. No. 1,296,667; Mar. 11; v. 260; p. 227.
- Socket-wrench. M. J. Fairchild. No. 1,292,285; Jan. 21; v. 258; p. 600.
- Socket-wrench and bolt-holder device. J. B. Spangler. No. 1,299,631; Apr. 8; v. 261; p. 259.
- Socket wrench, Angular. G. R. Fullenwider. No. 1,310,473; July 22; v. 264; p. 550.
- Soda cellulose, particularly wood cellulose, Producing. E. L. Rinman. No. 1,319,360; Oct. 21; v. 267; p. 411.
- Soda-fountain. R. F. Gill. No. 1,321,731; Nov. 11; v. 268; p. 323.
- Soda-fountain. L. B. Oliver. No. 1,299,767; Apr. 8; v. 261; p. 291.
- Soda liquors, Treatment of waste. V. Drewsen. No. 1,298,481; Mar. 25; v. 260; p. 674.
- Soda, Treating natural. J. de las Fuentes. No. 1,308,899; July 8; v. 264; p. 192.
- Soda-water draft arm and faucet. J. A. McCormick. No. 1,295,541; Feb. 25; v. 259; p. 686.
- Sodium and potassium nitrate, Separating. G. C. Given and R. H. Bartheaux. No. 1,294,788; Feb. 18; v. 259; p. 489.
- Sodium and potassium salts, Separating. C. G. Leonis. No. 1,302,937; May 6; v. 262; p. 87.
- Sodium carbonate and ammonium sulfate from bisulfate of soda, Manufacture of. G. N. Vis. No. 1,294,526; Feb. 18; v. 259; p. 428.
- Sodium ferrocyanid, Making. T. Boberg. No. 1,318,258; Oct. 7; v. 267; p. 115.
- Sodium fluorid, Producing. F. C. Bowman. No. 1,324,030; Dec. 9; v. 269; p. 196.
- Sodium nitrate or potassium nitrate, Concentration of. H. S. Coe. No. 1,292,580; Jan. 28; v. 258; p. 692.
- Sodium sesquicarbonate and recovering sodium carbonates from natural waters, Making. J. R. Watson and W. Hirschkind. No. 1,319,128; Oct. 21; v. 267; p. 366.
- Soil, Apparatus for the treatment of. J. R. C. August. No. 1,303,150; May 6; v. 262; p. 129.
- Soil-breaker. T. Billington. No. 1,321,004; Nov. 4; v. 268; p. 122.
- Sofa, Convertible. O. Fichtenbaum. No. 1,290,152; Jan. 7; v. 258; p. 34.
- Soil cultivation. M. H. Hart. No. 1,302,543; May 6; v. 262; p. 12.
- Soil cultivation. L. N. Lyon. No. 1,306,547; June 10; v. 263; p. 279.
- Soil preparer and cultivator. T. M. Weston. No. 1,304,838; May 27; v. 262; p. 546.
- Soil-pulverizer. W. O. Pulley. No. 1,318,230; Oct. 7; v. 267; p. 110.
- Soil-pulverizer. H. O. Scranton. No. 1,321,248; Nov. 11; v. 268; p. 232.
- Soil-tiller. G. W. Lumm. No. 1,316,625; Sept. 23; v. 266; p. 468.
- Soil, Treatment of. J. R. C. August. No. 1,303,149; May 6; v. 262; p. 128.
- Soils, Reinforcing, bacterizing, and composting of organic material for inoculators, improvers, and fertilizers of. T. F. Manns. No. 1,320,701; Nov. 4; v. 268; p. 64.
- Solar heater. G. J. Trosper. No. 1,325,596; Dec. 23; v. 269; p. 599.
- Solar transit. R. N. Raymond. No. 1,309,486; July 8; v. 264; p. 301.
- Solder, Aluminium. C. L. Bonsteel. No. 1,323,520; Dec. 2; v. 269; p. 56.
- Solder, Aluminium. J. G. Kelly. No. 1,321,529; Nov. 11; v. 268; p. 285.
- Solder cutter and feeder. W. S. Hamm and W. F. Stewart. No. 1,296,656; Mar. 11; v. 260; p. 224.
- Solder for aluminium, Flux for. J. G. Kelly. No. 1,321,454; Nov. 11; v. 268; p. 271.
- Soldering apparatus. G. R. Metcalf. No. 1,320,632; Nov. 4; v. 268; p. 51.
- Soldering chain-links. E. Speidel. No. 1,308,741; July 1; v. 264; p. 135.
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- Spark-plug. I. B. Owens. No. 1,306,834; June 17; v. 263; p. 364.
- Spark-plug. A. J. Perron. No. 1,308,107; July 1; v. 264; p. 18.
- Spark-plug. W. H. Plunkett. No. 1,291,122; Jan. 14; v. 258; p. 290.
- Spark-plug. J. E. Powell. No. 1,319,487; Oct. 21; v. 267; p. 436.
- Spark-plug. A. A. Radtke. No. 1,290,780; Jan. 7; v. 258; p. 184.
- Spark-plug. A. L. Riggs. No. 1,296,318; Mar. 4; v. 260; p. 114.
- Spark-plug. F. Robinson. No. 1,303,965; May 20; v. 262; p. 443.
- Spark-plug. O. C. Rohde. No. 1,313,419; Aug. 19; v. 265; p. 346.
- Spark-plug. E. O. Sather. No. 1,299,040; Apr. 1; v. 261; p. 97.
- Spark-plug. A. Schmidt. No. 1,308,871; July 8; v. 264; p. 186.
- Spark-plug. A. Schmidt. No. 1,319,423; Oct. 21; v. 267; p. 423.
- Spark-plug. F. Schroeder. No. 1,323,380; Dec. 2; v. 269; p. 30.
- Spark-plug. W. E. Schubert. No. 1,313,744; Aug. 19; v. 265; p. 407.
- Spark-plug. J. W. Shannon and T. N. Harris. No. 1,293,218; Feb. 4; v. 259; p. 56.
- Spark-plug. A. P. Shaw. No. 1,290,372; Jan. 7; v. 258; p. 86.
- Spark-plug. W. H. Sippel. No. 1,320,803; Nov. 4; v. 268; p. 83.
- Spark-plug. W. F. Sprengnether. No. 1,310,847; July 22; v. 264; p. 620.
- Spark-plug. E. W. Stevens. No. 1,292,661; Jan. 28; v. 258; p. 712.
- Spark-plug. R. A. Stranahan. No. 1,313,425; Aug. 19; v. 265; p. 347.
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- Spark-plug. M. P. Sullivan. No. 1,313,426; Aug. 19; v. 265; p. 348.
- Spark-plug. R. Sutton. No. 1,298,821; Apr. 1; v. 261; p. 48.
- Spark-plug. D. M. Sweeney. No. 1,317,834; Oct. 7; v. 267; p. 33.
- Spark-plug. W. S. Thomas. No. 1,300,048; Apr. 8; v. 261; p. 352.
- Spark-plug. W. S. Thomas. No. 1,325,595; Dec. 23; v. 269; p. 569.
- Spark-plug. F. F. Thomasson. No. 1,298,601; Mar. 25; v. 260; p. 700.
- Spark-plug. A. G. Trautman. No. 1,323,932; Dec. 2; v. 269; p. 133.
- Spark-plug and forming same. A. Schmidt. No. 1,308,872; July 8; v. 264; p. 186.
- Spark-plug and making same. C. H. Braselton. No. 1,311,261; July 29; v. 264; p. 729.
- Spark-plug and priming device. A. Pache. No. 1,325,262; Dec. 16; v. 269; p. 491.
- Spark-plug attachment. G. M. Sherrill. No. 1,296,126; Mar. 4; v. 260; p. 72.
- Spark-plug cleaner. H. H. Frey. No. 1,319,577; Oct. 21; v. 267; p. 453.
- Spark-plug cleaner. F. C. Miller. No. 1,292,004; Jan. 21; v. 258; p. 532.
- Spark-plug. Electric. C. K. Harding. No. 1,296,076; Mar. 4; v. 260; p. 59.
- Spark-plugs. Electrical amplifier for. F. G. Tompsett. No. 1,323,503; Dec. 2; v. 269; p. 53.
- Spark-plug. Flame-projector. R. V. and C. F. Bloomhuff. No. 1,320,115; Oct. 28; v. 267; p. 576.
- Spark-plug indicator. C. F. Pinneo. No. 1,306,231; June 10; v. 263; p. 220.
- Spark-plug intensifier. G. R. Meissner. No. 1,310,427; July 22; v. 264; p. 542.
- Spark-plug intensifier. F. G. Meyer. No. 1,296,101; Mar. 4; v. 260; p. 65.
- Spark-plug. Multigap. M. M. Metzinger. No. 1,298,368; Mar. 25; v. 260; p. 619.
- Spark-plug. Non-grounded. J. A. Rose. No. 1,299,035; Apr. 1; v. 261; p. 96.
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- Spark-plug. Self-cleaning. J. Barker. No. 1,297,058; Mar. 11; v. 260; p. 317.
- Spark-plug. Self-cleaning. C. A. Wellman. No. 1,310,817; July 22; v. 264; p. 615.
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- Spark-plug waterproof connection. A. Schmidt. No. 1,298,799; Apr. 1; v. 261; p. 43.
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- Spark-plugs. Producing mica insulators for. A. R. Mosler and G. Margolin. No. 1,320,638; No. 4; v. 268; p. 52.
- Spark-tester. F. A. Robeus. No. 1,298,795; Apr. 1; v. 261; p. 42.
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- Spear. Fish-. C. C. Glass. No. 1,297,344; Mar. 18; v. 260; p. 407.
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- Spectacle-case holder. G. E. Cole. No. 1,300,124; Apr. 8; v. 261; p. 369.
- Spectacle, eyeglass, and like case. C. N. Dexter. No. 1,292,725; Jan. 28; v. 258; p. 727.
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- Spectacle-rim stretching device. M. Tritsch. No. 1,300,520; Apr. 15; v. 261; p. 480.
- Spectacle-temple. E. R. Durgin. No. 1,304,168; May 20; v. 262; p. 379.
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- Speed-control system. P. J. Simmen. No. 1,315,346; Sept. 9; v. 266; p. 170.
- Speed-control system. Automatic. I. Ringer. No. 1,317,727; Oct. 7; v. 267; p. 13.
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- Speed-governor control, Variable. J. C. L. Krebs and W. Wells. No. 1,325,478; Dec. 16; v. 269; p. 530.
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- Spoon-holder. W. E. and M. A. Anderson. No. 1,306,677; June 10; v. 263; p. 303.
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- Spoon-holder. W. S. Johnson. No. 1,321,048; Nov. 4; v. 268; p. 130.
- Spoon-holder. G. L. Stevens. No. 1,323,924; Dec. 2; v. 269; p. 132.
- Spoon-holder. B. Thornton. No. 1,304,628; May 27; v. 262; p. 507.
- Spoon-holding clip. C. W. Harper. No. 1,312,396; Aug. 5; v. 265; p. 101.
- Spoon, Sanitary. D. F. Curtaln. No. 1,323,619; Dec. 2; v. 269; p. 74.
- Spoon, Sanitary. A. J. Frankland. No. 1,312,111; Aug. 5; v. 265; p. 49.
- Spoon, Trolling-. G. Robertson. No. 1,306,719; June 17; v. 263; p. 343.
- Spot-facing machine. C. G. Wood and J. M. Willson. No. 1,318,039; Oct. 7; v. 267; p. 72.
- Spot-light. E. S. Robinson. No. 1,290,784; Jan. 7; v. 258; p. 185.
- Spot-light apparatus, Automatic. M. Chick. No. 1,297,543; Mar. 18; v. 260; p. 449.
- Spot-light mounting. O. M. Otte. No. 1,300,863; Apr. 15; v. 261; p. 552.
- Spot-light mounting. O. M. Otte. No. 1,324,615; Dec. 9; v. 269; p. 309.
- Spot-light support. J. C. Stearns. No. 1,321,257; Nov. 11; v. 268; p. 235.
- Spout for containers, Sanitary pouring-. D. P. Long and D. G. Peterson. No. 1,306,263; June 10; v. 263; p. 227.
- Spout, Oil-can. G. Sjogren. No. 1,314,156; Aug. 26; v. 265; p. 519.
- Spout, Pouring-. C. H. Nowack. No. 1,301,868; Apr. 29; v. 261; p. 820.
- Spray-nozzle. H. D. Binks. No. 1,324,579; Dec. 9; v. 269; p. 302.
- Spray-nozzle. K. Duckworth. No. 1,290,526; Jan. 7; v. 258; p. 124.
- Spray-protector. C. Kelly. No. 1,326,348; Dec. 30; v. 269; p. 746.
- Sprayer. H. E. Brandt. No. 1,295,420; Feb. 25; v. 259; p. 657.
- Sprayer. J. T. Plumer. No. 1,299,380; Apr. 1; v. 261; p. 173.
- Sprayer, Insecticide-. H. F. J. Sieverkropp. No. 1,316,514; Sept. 16; v. 266; p. 399.
- Spraying and atomizing liquids, Apparatus for. E. Slater. No. 1,292,898; Jan. 28; v. 258; p. 768.
- Spraying and burning apparatus. H. K. Wheelock. No. 1,312,934; Aug. 12; v. 265; p. 237.
- Spraying apparatus. A. V. Dickey. No. 1,300,823; Apr. 15; v. 261; p. 544.
- Spraying apparatus. A. Whittaker. No. 1,297,622; Mar. 18; v. 260; p. 466.
- Spraying apparatus, Animal-. N. C. Jansen. No. 1,315,309; Sept. 9; v. 266; p. 163.
- Spraying device. R. S. Blair. No. 1,322,753; Nov. 25; v. 268; p. 617.
- Spraying device. E. Eckart. No. 1,315,765; Sept. 9; v. 266; p. 244.
- Spraying device. A. E. Halbert. No. 1,315,831; Sept. 9; v. 266; p. 257.
- Spraying device. J. W. Ranson and O. A. Gerstung. No. 1,300,014; Apr. 8; v. 261; p. 344.
- Spraying-machine. G. A. Urbach. (Reissue.) No. 14,765; Dec. 2; v. 269; p. 151.
- Spraying machine, Dry-. W. H. Rose. No. 1,300,654; Apr. 15; v. 261; p. 507.
- Spraying or like apparatus. J. G. Goodhue. No. 1,293,407; Feb. 4; v. 259; p. 101.
- Spraying or atomizing apparatus. H. E. Sturcke. No. 1,303,987; May 20; v. 262; p. 347.
- Spraying system. C. G. Throop. No. 1,305,180; May 27; v. 262; p. 610.
- Spreader. W. H. Binder. No. 1,299,666; Apr. 8; v. 261; p. 268.
- Spreader. H. L. Litchfield and V. Speer. No. 1,313,638; Aug. 19; v. 265; p. 388.
- Spreader. O. C. Mann. No. 1,295,551; Feb. 25; v. 259; p. 688.
- Spring—See—
- |                          |                           |
|--------------------------|---------------------------|
| Antirecoil-spring.       | Leaf-spring.              |
| Automobile-spring.       | Locomotive-spring.        |
| Bed-spring.              | Pneumatic spring.         |
| Box-spring.              | Self-lubricating spring.  |
| Brake-release spring.    | Tire-spring.              |
| Chute-spring.            | Vehicle-spring.           |
| Corset-spring.           | Vehicle auxiliary spring. |
| Cushion-spring.          | Wheel-spring.             |
| Diaphragm buffer-spring. | Wire spring.              |
- Spring. G. H. Clark. No. 1,308,165; July 1; v. 264; p. 29.
- Spring. E. M. Daley. No. 1,321,986; Nov. 18; v. 268; p. 421.
- Spring. J. Meditz. No. 1,308,601; July 1; v. 264; p. 108.
- Spring. J. Repking. No. 1,323,491; Dec. 2; v. 269; p. 50.
- Spring. B. C. Seaton. No. 1,326,107; Dec. 23; v. 269; p. 664.
- Spring-adjusting device. S. H. Tolman. No. 1,324,084; Dec. 9; v. 269; p. 206.
- Spring bed-bottom. J. Cipolla. No. 1,312,612; Aug. 12; v. 265; p. 174.
- Spring-bed construction. R. W. Schwab. No. 1,303,969; May 20; v. 262; p. 344.
- Spring-bolt, Lubricating. F. K. Kilian. No. 1,320,477; Nov. 4; v. 268; p. 22.
- Spring boot and oiler. G. B. Price. No. 1,304,366; May 20; v. 262; p. 418.
- Spring catch and hook. T. Leland. No. 1,293,483; Feb. 4; v. 259; p. 118.
- Spring-clamp. R. T. Parker. No. 1,312,746; Aug. 12; v. 265; p. 199.
- Spring-clamp, Adjustable. H. C. Hillin. No. 1,303,557; May 13; v. 262; p. 230.
- Spring-clip, Brake-beam. W. C. Hedgecock. No. 1,315,493; Sept. 9; v. 266; p. 196.
- Spring-colling machine. M. M. Cunningham. No. 1,326,031; Dec. 23; v. 269; p. 650.
- Spring construction, Barke-. W. A. Falls. No. 1,295,287; Feb. 25; v. 259; p. 626.
- Spring-cushion. F. M. Henshaw. No. 1,325,092; Dec. 16; v. 269; p. 459.
- Spring-cushion structure. R. W. Foill. No. 1,292,290; Jan. 21; v. 258; p. 601.
- Spring-hanger. H. G. Westmore. No. 1,323,561; Dec. 2; v. 269; p. 64.
- Spring-hinge. T. Y. Fook. No. 1,312,392; Aug. 5; v. 265; p. 100.
- Spring-hinge, Detachable. G. N. Barcus. No. 1,304,009; May 20; v. 262; p. 351.
- Spring-hub. C. E. James. No. 1,324,596; Dec. 9; v. 269; p. 305.
- Spring knob-lock. H. Meltzer and L. Karron. No. 1,326,461; Dec. 30; v. 269; p. 768.
- Spring-lifter. C. C. Hale. No. 1,298,934; Apr. 1; v. 261; p. 73.
- Spring-lock. H. L. Peters. No. 1,299,859; Apr. 8; v. 261; p. 311.
- Spring locking-washer. F. Humphris. No. 1,323,188; Nov. 25; v. 268; p. 690.
- Spring-machine. W. F. Wegner. No. 1,316,211; Sept. 16; v. 266; p. 342.

- Spring-making machine. M. M. McIntyre. No. 1,320,788; Nov. 4; v. 268; p. 81.
- Spring-motor. L. Baxter. No. 1,315,456; Sept. 9; v. 266; p. 190.
- Spring-motor. J. H. Holzhausen. No. 1,308,712; July 1; v. 264; p. 129.
- Spring-motor. F. G. Mayer. No. 1,291,061; Jan. 14; v. 258; p. 277.
- Spring-motor control. N. Pedersen. No. 1,301,968; Apr. 29; v. 261; p. 839.
- Spring-motor. Self-winding. W. W. Billings. No. 1,315,459; Sept. 9; v. 266; p. 190.
- Spring-mounting. G. A. Hoover. No. 1,298,716; Apr. 1; v. 261; p. 22.
- Spring-pad. P. Krakauer. No. 1,325,874; Dec. 23; v. 269; p. 622.
- Spring-regulating device. S. H. Tolman. No. 1,324,083; Dec. 9; v. 269; p. 206.
- Spring-regulator. M. C. Krarup. No. 1,326,600; Dec. 30; v. 269; p. 794.
- Spring-reinforcement. G. F. Brent. No. 1,311,751; July 29; v. 264; p. 820.
- Spring-rigging cross equalization. W. F. Kiesel, Jr. No. 1,293,470; Feb. 4; v. 259; p. 115.
- Spring-seat. S. W. Clark. No. 1,305,771; June 3; v. 263; p. 102.
- Spring-seat. E. L. Larson. No. 1,323,874; Dec. 2; v. 269; p. 122.
- Spring-seat. L. M. Reed. No. 1,303,962; May 20; v. 262; p. 342.
- Spring-seat, Adjustable. J. H. Stoots. No. 1,319,976; Oct. 28; v. 267; p. 551.
- Spring shock-absorber. J. F. O'Connor. No. 1,290,315; Jan. 7; v. 258; p. 73.
- Spring spreader. Leaf. J. M. Hommel. No. 1,294,663; Feb. 18; v. 259; p. 460.
- Spring structure. W. E. Andrew. No. 1,325,604; Dec. 23; v. 269; p. 571.
- Spring structure. O. R. Hunt. No. 1,291,003; Jan. 14; v. 258; p. 262.
- Spring structure. W. Shannon. No. 1,313,341; Aug. 19; v. 265; p. 331.
- Spring-supporting clamp. C. H. Fessler. No. 1,316,226; Sept. 16; v. 266; p. 344.
- Spring suspension. E. F. Fey. No. 1,311,061; July 22; v. 264; p. 659.
- Spring suspension. R. H. Hassler. No. 1,293,425; Feb. 4; v. 259; p. 105.
- Spring-testing machine. C. Girl. No. 1,308,410; July 1; v. 264; p. 74.
- Spring traction-wheel. E. O. Gray and N. E. Parks. No. 1,295,733; Feb. 25; v. 259; p. 730.
- Spring-trap. H. G. Greene. No. 1,312,690; Aug. 12; v. 265; p. 188.
- Spring-wheel. A. Amsler. No. 1,295,082; Feb. 18; v. 259; p. 556.
- Spring-wheel. G. W. Bowman. No. 1,309,839; July 15; v. 264; p. 404.
- Spring-wheel. J. A. Bradley. No. 1,323,005; Nov. 25; v. 268; p. 664.
- Spring-wheel. S. Carpenter. No. 1,302,306; Apr. 29; v. 261; p. 902.
- Spring-wheel. B. C. Fisher. No. 1,310,285; July 15; v. 264; p. 485.
- Spring-wheel. H. Hines. No. 1,295,316; Feb. 25; v. 259; p. 632.
- Spring-wheel. A. Kajanus. No. 1,303,329; May 13; v. 262; p. 189.
- Spring-wheel. J. H. Landry. No. 1,321,218; Nov. 11; v. 268; p. 225.
- Spring-wheel. J. F. Massey and W. W. Rabensdorf. No. 1,290,625; Jan. 7; v. 258; p. 148.
- Spring-wheel. J. McBrenarty. No. 1,297,881; Mar. 18; v. 260; p. 521.
- Spring-wheel. C. J. McCord. No. 1,305,558; June 3; v. 263; p. 62.
- Spring-wheel. C. J. McCord. No. 1,309,532; July 8; v. 264; p. 310.
- Spring-wheel. T. Meehan. No. 1,323,895; Dec. 2; v. 269; p. 127.
- Spring-wheel. C. Mikolyn. No. 1,294,933; Feb. 18; v. 259; p. 523.
- Spring-wheel. A. Moon. No. 1,316,499; Sept. 16; v. 266; p. 396.
- Spring-wheel. A. Nagy. No. 1,324,131; Dec. 9; v. 269; p. 215.
- Spring-wheel. G. Orbin. No. 1,313,501; Aug. 19; v. 265; p. 361.
- Spring-wheel. M. B. Ray and E. K. Henderson. No. 1,320,173; Oct. 28; v. 267; p. 587.
- Spring-wheel. W. M. Schrock. No. 1,314,540; Sept. 2; v. 266; p. 12.
- Spring-wheel. J. W. Shipley. No. 1,315,343; Sept. 9; v. 266; p. 169.
- Spring-wheel. W. M. Smith. No. 1,298,592; Mar. 25; v. 260; p. 698.
- Spring-wheel. F. B. Spross. No. 1,326,144; Dec. 23; v. 269; p. 671.
- Spring-wheel. J. L. Thompson. No. 1,321,162; Nov. 11; v. 268; p. 215.
- Spring-wheel. J. R. Warren. No. 1,298,269; Mar. 25; v. 260; p. 630.
- Spring-wheel. O. G. Worsley. No. 1,297,287; Mar. 11; v. 260; p. 366.
- Springs, Apparatus to hold and bend. W. E. Everitt. No. 1,294,071; Feb. 11; v. 259; p. 287.
- Springs, Apparatus to hold and bend. W. E. Everitt. No. 1,323,971; Dec. 2; v. 269; p. 141.
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- Springs, Fastening means for leaf-. A. M. Laycock. No. 1,314,817; Sept. 2; v. 266; p. 64.
- Springs, Flexible metal casing for laminated. B. B. Leustig. No. 1,319,349; Oct. 21; v. 267; p. 409.
- Springs, Friction-leaf for-. T. J. Fay. No. 1,319,214; Oct. 21; v. 267; p. 384.
- Springs, Lubricating-strip for leaf-. T. S. Hamilton. No. 1,323,856; Dec. 2; v. 269; p. 119.
- Springs, Machine for forming hooks on spiral. F. H. Sleeper. No. 1,311,187; July 29; v. 264; p. 715.
- Springs, Shackle for-. A. H. McCleary. No. 1,326,757; Dec. 30; v. 269; p. 824.
- Springs, Shock-absorber for vehicle suspension-. E. V. Hartford. No. 1,304,970; May 27; v. 262; p. 570.
- Springs, Shock-eliminator for vehicle-. J. Voipe. No. 1,319,736; Oct. 28; v. 267; p. 505.
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- Sprinkler; See—
- Automatic sprinkler. Street-sprinkler.
- Garden-sprinkler. Water-sprinkler.
- Lawn-sprinkler.
- Sprinkler. J. J. Bavor. No. 1,317,540; Sept. 30; v. 266; p. 677.
- Sprinkler. E. S. Carlsen. No. 1,290,080; Jan. 7; v. 258; p. 16.
- Sprinkler. H. Partridge. No. 1,322,466; Nov. 18; v. 268; p. 512.
- Sprinkler, Automatic. J. P. Linton. No. 1,319,230; Oct. 21; v. 267; p. 386.
- Sprinkler-head. J. F. Brass. No. 1,313,787; Aug. 19; v. 265; p. 415.
- Sprinkler-head. E. E. Clark. No. 1,318,543; Oct. 14; v. 267; p. 230.
- Sprinkler-head. H. B. Long. No. 1,306,490; June 10; v. 263; p. 268.
- Sprinkler-head. C. W. Siver. No. 1,298,109; Mar. 25; v. 260; p. 595.
- Sprinkler-head. W. J. Turner. No. 1,292,664; Jan. 28; v. 258; p. 712.
- Sprinkler-head. W. J. Turner. No. 1,314,169; Aug. 26; v. 265; p. 521.
- Sprinkler-heads, Fusible link for. C. L. Swift. No. 1,323,422; Dec. 2; v. 269; p. 37.
- Sprinkler system. A. A. Arvintz. No. 1,308,974; July 8; v. 264; p. 206.
- Sprinkler-system tank. E. C. Maxwell. No. 1,315,522; Sept. 9; v. 266; p. 201.
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- Sprinklers, Emergency-stopper for automatic. J. P. Casey. No. 1,325,507; Dec. 23; v. 269; p. 553.
- Sprinklers, Fusible link for automatic. O. B. Lewis. No. 1,304,332; May 20; v. 262; p. 411.
- Sprinklers, Regulating device for road-. G. Schlatter. No. 1,304,384; May 20; v. 262; p. 421.
- Sprocket. J. P. Brophy. No. 1,292,242; Jan. 21; v. 258; p. 591.
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- Spurred wheel, Extensible. A. Novomiroff. No. 1,324,563; Dec. 9; v. 269; p. 299.
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- Square. A. Blauvelt. No. 1,303,846; May 20; v. 262; p. 321.
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- Square. A. Schachat. No. 1,306,722; June 17; v. 263; p. 344.
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- Square and level. Combined folding. W. R. Coleman. No. 1,298,010; Mar. 25; v. 260; p. 575.
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- Square, Test-. G. N. Higgs and A. J. Job. No. 1,321,038; Nov. 4; v. 268; p. 128.
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- Squeezer, Lemon and lime. J. R. Bolton and J. D. Williams. No. 1,305,339; June 3; v. 263; p. 21.
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- Stabilizer and lifting-propeller, Gyrotatory. T. M. Finley. No. 1,291,817; Jan. 21; v. 258; p. 484.
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- Stacker, Tray-. G. D. Parker. No. 1,292,635; Jan. 28; v. 258; p. 706.
- Stacker, Wheat-. O. P. Wentworth. No. 1,306,842; June 17; v. 263; p. 366.
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- Stair-jack. C. D. Fabrney. No. 1,301,672; Apr. 22; v. 261; p. 750.
- Stair-router, Portable. H. Vane and N. Britton. No. 1,318,622; Oct. 14; v. 267; p. 245.
- Stair-tread. W. R. Ormes. No. 1,319,895; Oct. 28; v. 267; p. 535.
- Stair-tread bracket. W. E. Irving. No. 1,304,056; May 20; v. 262; p. 360.
- Stair tread, pad or lining. F. J. Ludwick. No. 1,320,016; Oct. 28; v. 267; p. 558.
- Stairs, Dividing-. C. G. Porter. No. 1,300,010; Apr. 8; v. 261; p. 343.
- Stairway. C. Itschner. No. 1,291,904; Jan. 21; v. 258; p. 506.
- Stairway. C. Itschner. No. 1,291,905; Jan. 21; v. 258; p. 506.
- Stairway, Panel-. F. E. Bessler. No. 1,309,314; July 8; v. 264; p. 270.
- Stairway, switchback-slide, and amusement device, Moving. H. Pickard. No. 1,294,701; Feb. 18; v. 259; p. 469.
- Stake. R. N. Eggleston. No. 1,308,939; July 8; v. 264; p. 199.
- Stake. W. J. Martin. No. 1,320,081; Oct. 28; v. 267; p. 570.
- Stake, Ground-. R. N. Eggleston. No. 1,308,940; July 8; v. 264; p. 199.
- Stake-pulling machine. F. Buchanan. No. 1,299,294; Apr. 1; v. 261; p. 154.
- Stake support and brace. R. F. Robinson. No. 1,312,359; Aug. 5; v. 265; p. 94.
- Stalk-cutter. F. S. King. No. 1,297,182; Mar. 11; v. 260; p. 343.
- Stalk-puller. O. B. Bullard. No. 1,297,319; Mar. 18; v. 260; p. 403.
- Stalk puller and chopper. J. Anderson. No. 1,311,201; July 29; v. 264; p. 718.
- Stalks, more especially sugar-cane, Apparatus for gathering. E. Botje. No. 1,317,542; Sept. 30; v. 266; p. 677.
- Stall connection or the like. C. M. Stevenson. No. 1,315,351; Sept. 9; v. 266; p. 171.
- Stallion-shield. A. F. Ruthven. No. 1,317,107; Sept. 23; v. 266; p. 558.
- Stamp-affixing and envelop-sealing machine. F. R. S. Ditmars. No. 1,302,018; Apr. 29; v. 261; p. 848.
- Stamp-affixing and envelop-sealing machine. F. R. S. Ditmars. No. 1,319,676; Oct. 21; v. 267; p. 471.
- Stamp-affixing machine. W. H. Asay. No. 1,306,459; June 10; v. 263; p. 263.
- Stamp-affixing machine. C. E. Skerry. No. 1,314,760; Sept. 2; v. 266; p. 53.
- Stamp-affixing machine. A. W. Smith. No. 1,293,959; Feb. 11; v. 259; p. 259.
- Stamp-affixing machine. B. A. Strechs. No. 1,323,419; Dec. 2; v. 269; p. 37.
- Stamp-affixing machine. J. N. Tzibides and R. H. Parker. No. 1,302,735; May 6; v. 262; p. 48.
- Stamp and envelop moistener. W. Hegland. No. 1,315,305; Sept. 9; v. 266; p. 162.
- Stamp and register, Receipting. M. G. Standley and A. E. Bowman. No. 1,311,189; July 29; v. 264; p. 716.
- Stamp, Dating-. A. Marks. No. 1,291,057; Jan. 14; v. 258; p. 276.
- Stamp-feeding machine. W. J. Balkwill and W. F. Schweizer. No. 1,312,669; Aug. 12; v. 265; p. 185.
- Stamp, Hand-. H. Folger and J. C. Julien. No. 1,301,926; Apr. 29; v. 261; p. 831.
- Stamp, Hand-. J. Mintz. No. 1,323,782; Dec. 2; v. 269; p. 105.
- Stamp, Multiple. D. R. McClure, Jr. No. 1,294,132; Feb. 11; v. 259; p. 301.
- Stamp-rack. W. H. Niemeyer. No. 1,314,893; Sept. 2; v. 266; p. 77.
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- Stamp-receiver. E. M. Walsh. No. 1,312,713; Aug. 12; v. 265; p. 193.
- Stamp, Time-. S. Aranat. No. 1,320,355; Oct. 28; v. 267; p. 621.
- Stamp, Time-. W. F. Straub. No. 1,292,135; Jan. 21; v. 258; p. 565.
- Stamp, Time-. J. C. Wilson. No. 1,300,909; Apr. 15; v. 261; p. 562.
- Stamps, labels, and the like, Mechanism for applying. E. L. Smith. No. 1,306,359; June 10; v. 263; p. 245.
- Stamps to cans or other containers, Machine for applying. G. W. Gwinn. No. 1,315,956; Sept. 16; v. 266; p. 294.
- Stamping device, Hand. N. J. Koehler. No. 1,291,026; Jan. 14; v. 258; p. 267.
- Stamping-machine. H. W. Winter. No. 1,292,201; Jan. 21; v. 258; p. 581.
- Stamping machine, Can-. J. Dowson and T. Yamada. No. 1,303,042; May 6; v. 262; p. 107.
- Stamping machine, Roll-. J. W. Ruger. No. 1,291,168; Jan. 14; v. 258; p. 301.
- Stamping machines, Attachment for hat-. N. Fromm and A. J. Thwaites. No. 1,311,062; July 22; v. 264; p. 659.
- Stamping or embossing machine. H. W. Winter. No. 1,301,890; Apr. 29; v. 261; p. 824.
- Stampings, Making irregularly-shaped. C. B. Weaver. No. 1,308,769; July 8; v. 264; p. 168.
- Stanchion. H. J. Ferris. No. 1,314,953; Sept. 2; v. 266; p. 87.
- Stanchion. R. W. Franklin. No. 1,322,686; Nov. 25; v. 268; p. 605.
- Stanchion-alignment device. F. H. Bogda. No. 1,312,677; Aug. 12; v. 265; p. 186.
- Stanchion, Animal-. J. M. B. Lewis. No. 1,311,658; July 29; v. 264; p. 803.
- Stanchion, Animal-. J. M. B. Lewis. No. 1,314,880; Sept. 2; v. 266; p. 75.
- Stanchion, Cow-. G. H. Ward. No. 1,309,497; July 8; v. 264; p. 303.
- Stanchion-operator. W. K. Sargent. No. 1,298,102; Mar. 25; v. 260; p. 593.
- Stanchion, Take-down. K. S. Haines. No. 1,297,838; Mar. 18; v. 260; p. 512.
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  - Calendar-stand.
  - Dental-articulator stand.
  - Dental-equipment stand.
  - Display-stand.
  - Dressmaker's stand.
  - Flat-iron stand.
  - Flower-stand.
  - Folding stand.
  - Hammer-stand.
  - Hose-stand.
  - Inkstand.
  - Iron-stand.
  - Ironing-board stand.
  - Irrigating-stand.
  - Jardiniere-stand.
  - Lamp-stand.
  - Motor-stand.
  - Motor assembling and testing stand.
  - Motor-block stand.
  - Motor-cycle stand.
  - Music-stand.
  - News-stand.
  - Physician's straddle-stand.
  - Planing-stand.
  - Range-boiler stand.
  - Sewing-machine stand.
  - Shoe-shining stand.
  - Storage and display stand.
  - Switch-stand.
  - Thread-stand.
  - Tire-finishing stand.
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- Standard. A. M. Evenson. No. 1,302,145; Apr. 29; v. 261; p. 872.
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- Steam-superheater. J. G. Robinson. No. 1,296,320; Mar. 4; v. 260; p. 114.
- Steam-superheater. J. G. Robinson. No. 1,299,033; Apr. 1; v. 261; p. 96.
- Steam-superheater. J. G. Robinson. No. 1,301,606; Apr. 22; v. 261; p. 737.
- Steam system. W. F. Waul. No. 1,314,993; Sept. 2; v. 266; p. 96.
- Steam-trap. A. E. Armstrong. No. 1,309,604; July 15; v. 264; p. 361.
- Steam-trap. C. E. Bonnet. No. 1,320,831; Nov. 4; v. 268; p. 89.
- Steam-trap. T. A. Chalmers. No. 1,297,659; Mar. 18; v. 260; p. 473.
- Steam-trap. J. O. Hammell. No. 1,304,562; May 27; v. 262; p. 495.
- Steam-trap. J. O. Hammell. No. 1,304,563; May 27; v. 262; p. 495.
- Steam-trap. C. J. Katchem. No. 1,293,111; Feb. 4; v. 259; p. 32.
- Steam-trap. J. W. Lytton. No. 1,291,962; Jan. 21; v. 258; p. 522.
- Steam-trap. C. E. Marion. No. 1,316,171; Sept. 16; v. 266; p. 334.
- Steam-trap. L. R. Mertens. No. 1,322,324; Nov. 18; v. 268; p. 484.
- Steam-trap. W. Winslow. No. 1,307,288; June 17; v. 263; p. 447.
- Steam-trap. W. Scott. No. 1,310,507; July 22; v. 264; p. 556.
- Steam-trap, Thermostatic. D. N. Crosthwait, Jr. No. 1,315,596; Sept. 9; v. 266; p. 214.
- Steam-turbine. J. F. M. Patitz. No. 1,311,615; July 29; v. 264; p. 795.
- Steam-turbine. H. H. Wait. No. 1,315,263; Sept. 9; v. 266; p. 154.
- Steam with air, Means for mixing. J. H. Poppink. No. 1,315,931; Sept. 9; v. 266; p. 276.
- Steamer. R. R. Sibley. No. 1,290,378; Jan. 7; v. 258; p. 87.
- Steamer attachment. H. A. Kelly. No. 1,315,671; Sept. 9; v. 266; p. 227.
- Steamboat and barge loading and unloading system. G. A. Hansen. No. 1,298,499; Mar. 25; v. 260; p. 679.
- Steamships and other vessels, System and apparatus for the disposal of sewage and other refuse from. W. S. Parsons. No. 1,291,628; Jan. 14; v. 258; p. 408.
- Steel and high-phosphorus slag, Producing. W. R. Walker. No. 1,299,072; Apr. 1; v. 261; p. 105.
- Steel and like metal plates, Machinery or apparatus for handling, manipulating, or transporting. T. Thomson. No. 1,305,319; June 3; v. 263; p. 17.
- Steel band, Spring-. W. R. Springer. (Reissue.) No. 14,762; Nov. 25; v. 268; p. 710.
- Steel billets while being rolled hot, Device for removing flaws from. J. L. Smith. No. 1,317,049; Sept. 23; v. 266; p. 547.
- Steel, Carbon-chrome-nickel. J. R. Speer. No. 1,314,022; Aug. 26; v. 265; p. 494.

- Steel columns, Device for climbing. H. H. Heywood. No. 1,312,399; Aug. 5; v. 265; p. 102.
- Steel, Composition of matter for tempering. E. A. Halseth. No. 1,296,951; Mar. 11; v. 260; p. 293.
- Steel, Compound for tempering. C. C. Trinkle. No. 1,307,465; June 24; v. 263; p. 513.
- Steel directly from pig-iron, Apparatus for the production of. A. Nielsen. No. 1,318,906; Oct. 14; v. 267; p. 299.
- Steel from rusting, Preventing. J. H. Gravell. No. 1,315,017; Sept. 2; v. 266; p. 100.
- Steel grating, Rolled. M. Lachman. No. 1,325,792; Dec. 23; v. 269; p. 606.
- Steel, Heat treatment of. F. Giolitti. No. 1,296,649; Mar. 11; v. 260; p. 223.
- Steel, High-speed. I. R. Valentine. No. 1,321,163; Nov. 11; v. 268; p. 215.
- Steel ingots, Manufacture of. R. A. Hadfield and G. M. Jack. No. 1,323,628; Dec. 2; v. 269; p. 76.
- Steel ingots, Method and apparatus for forming. T. M. Whalen. No. 1,319,500; Oct. 21; v. 267; p. 438.
- Steel, Instrument for ascertaining the point of recalcence of. Jos. B. Robinson. No. 1,310,443; July 22; v. 264; p. 545.
- Steel, iron, and other magnetizable metal during heat treatment, Method of and means for indicating the condition of. L. W. Wild and E. P. Barfield. No. 1,321,347; Nov. 11; v. 268; p. 251.
- Steel machine parts and making same, Pressed. A. J. Townsend and H. M. Naugle. No. 1,317,055; Sept. 23; v. 266; p. 548.
- Steel, Making. E. T. Pelton. No. 1,315,034; Sept. 2; v. 266; p. 103.
- Steel, Making manganese. W. G. Nichols. No. 1,291,655; Jan. 14; v. 258; p. 415.
- Steel, Manufacture of. C. Dear. No. 1,304,946; May 27; v. 262; p. 566.
- Steel, Manufacture of. C. Dear. No. 1,304,947; May 27; v. 262; p. 566.
- Steel, Manufacture of. C. Dear. No. 1,304,948; May 27; v. 262; p. 566.
- Steel, Manufacture of. A. H. Henderson. No. 1,322,496; Nov. 18; v. 268; p. 518.
- Steel, Manufacture of. C. A. Keller. No. 1,316,724; Sept. 23; v. 266; p. 488.
- Steel, Manufacture of manganese. R. A. Hadfield. No. 1,310,528; July 22; v. 264; p. 560.
- Steel, Manufacturing. G. H. Benjamin. No. 1,314,384; Aug. 26; v. 265; p. 564.
- Steel, Manufacturing electric. J. McConnell. No. 1,318,164; Oct. 7; v. 267; p. 96.
- Steel-making process. W. M. Johnson. No. 1,300,410; Apr. 15; v. 261; p. 456.
- Steel-pinning device, Drill. J. Ditson. No. 1,306,106; June 10; v. 263; p. 195.
- Steel plates, Securing together heavy. J. H. Gravell. No. 1,296,651; Mar. 11; v. 260; p. 223.
- Steel, Product for carbonizing. T. R. Ferguson and E. L. Larson. No. 1,322,298; Nov. 18; v. 268; p. 479.
- Steel puller. C. Coveney. No. 1,295,439; Feb. 25; v. 259; p. 661.
- Steel, Recovering manganese. W. G. Nichols. No. 1,291,656; Jan. 14; v. 258; p. 415.
- Steel-smelting furnace. W. G. Perkins and W. H. Fitch. No. 1,295,586; Feb. 25; v. 259; p. 696.
- Steel, Solution for hardening. C. A. Heustis. No. 1,310,020; July 15; v. 264; p. 437.
- Steep-water and manufacturing the same, Product from. R. G. Brindle. No. 1,313,163; Aug. 12; v. 265; p. 282.
- Steel-wool, Machine for making. F. A. Paton and H. L. Koenig. No. 1,300,002; Apr. 8; v. 261; p. 341.
- Steering apparatus. R. W. Morrick and E. H. Drews. No. 1,308,504; July 1; v. 264; p. 90.
- Steering-balance. W. E. Krepke. No. 1,320,557; Nov. 4; v. 268; p. 38.
- Steering-column. D. E. Hennessy. No. 1,302,044; Apr. 29; v. 261; p. 853.
- Steering control, Automatic. M. E. Roze. No. 1,294,174; Feb. 11; v. 259; p. 311.
- Steering device. E. P. Arpin. No. 1,311,032; July 22; v. 264; p. 654.
- Steering device. Q. V. Distefano. No. 1,317,910; Oct. 7; v. 267; p. 47.
- Steering device. O. M. and A. E. Drake. No. 1,290,126; Jan. 7; v. 258; p. 27.
- Steering device. S. Giacometto. No. 1,303,289; May 13; v. 262; p. 182.
- Steering-gear. J. P. Lavigne. No. 1,319,294; Oct. 21; v. 267; p. 398.
- Steering-gear. J. E. Marceau. No. 1,305,297; June 3; v. 263; p. 13.
- Steering-gear. J. E. Marceau. No. 1,305,298; June 3; v. 263; p. 13.
- Steering-gear. D. Miller. No. 1,326,282; Dec. 30; v. 269; p. 734.
- Steering-gear. E. S. Scheble. No. 1,320,278; Oct. 28; v. 267; p. 607.
- Steering-gear. H. T. Thomas. No. 1,297,421; Mar. 18; v. 260; p. 423.
- Steering-gear. G. A. Toaz, W. E. Wilber, and H. E. Maynard. No. 1,310,222; July 15; v. 264; p. 473.
- Steering-gear attachment. W. Gummerson. No. 1,310,159; July 15; v. 264; p. 462.
- Steering-gear, Electrical. J. D. Williamson, Jr. No. 1,312,935; Aug. 12; v. 265; p. 237.
- Steering-gear for road-planters, Compensating. G. W. Cartwright. No. 1,300,697; Apr. 15; v. 261; p. 517.
- Steering-gear, Four-wheel. D. S. Stewart. No. 1,323,653; Dec. 2; v. 269; p. 80.
- Steering-gear, Hydraulic. C. E. Paine. No. 1,292,029; Jan. 21; v. 258; p. 538.
- Steering-gear, Universal compound worm. F. B. Alldredge. No. 1,299,532; Apr. 8; v. 261; p. 236.
- Steering means for motor-vehicles into right or left hand drives, Means for converting. I. M. Jacobs and W. Cramer. No. 1,299,348; Apr. 1; v. 261; p. 166.
- Steering mechanism. E. H. Belden. No. 1,323,815; Dec. 2; v. 269; p. 111.
- Steering mechanism. A. Coleman. No. 1,308,890; July 8; v. 264; p. 190.
- Steering mechanism. J. N. Kelly. No. 1,291,017; Jan. 14; v. 258; p. 265.
- Steering mechanism, Gyroscopic. H. W. Shonnard. No. 1,296,330; Mar. 4; v. 260; p. 117.
- Steering mechanism, Power. W. L. Sheldon. No. 1,309,261; July 8; v. 264; p. 259.
- Steering mechanism, Power. A. Stewart. No. 1,306,030; June 10; v. 263; p. 181.
- Steering mechanism, Stop-arm for. G. E. Frisz and J. D. Wiltshire. No. 1,304,300; May 20; v. 262; p. 405.
- Steering-post push-button attachment. E. D. Ferrell. No. 1,303,188; May 6; v. 262; p. 135.
- Steering-rod-controlling device. P. H. Dasen. No. 1,313,216; Aug. 12; v. 265; p. 292.
- Steering-strain-relieving device for automobiles. W. G. and G. V. Wade. No. 1,305,635; June 3; v. 263; p. 78.
- Steering-wheel. C. N. Allerdine. No. 1,321,876; Nov. 18; v. 268; p. 401.
- Steering-wheel. H. H. Goldstein. No. 1,314,741; Sept. 2; v. 266; p. 50.
- Steering-wheel. L. C. Lazear. No. 1,311,130; July 22; v. 264; p. 672.
- Steering-wheel. E. L. von Rahr. No. 1,325,341; Dec. 16; v. 269; p. 506.
- Steering-wheel. O. K. Snyder. No. 1,299,048; Apr. 1; v. 261; p. 99.
- Steering-wheel, Adjustable. E. L. Aiken. No. 1,298,151; Mar. 25; v. 260; p. 604.
- Steering-wheel attachment. J. C. Davidson. No. 1,323,680; Dec. 2; v. 269; p. 85.
- Steering-wheel attachment. J. L. McFarland. No. 1,320,254; Oct. 28; v. 267; p. 603.
- Steering-wheel attachment. A. H. Whigam and A. E. Eden. No. 1,314,995; Sept. 2; v. 266; p. 96.
- Steering-wheel brake. J. C. Rhodes, G. E. Guffey, and J. G. Sheehan. No. 1,305,934; June 3; v. 263; p. 134.
- Steering-wheel control. J. P. Handy. (Reissue.) No. 14,613; Mar. 18; v. 260; p. 544.
- Steering-wheel, Detachable. P. Turner. No. 1,295,640; Feb. 25; v. 259; p. 708.
- Steering-wheel, Exhaust-heated. C. W. Steele. No. 1,315,251; Sept. 9; v. 266; p. 152.
- Steering-wheel indicator, Automobile. F. M. Ryan. No. 1,323,914; Dec. 2; v. 269; p. 130.
- Steering-wheel lock. L. Rial and W. Hebern. No. 1,300,020; Apr. 8; v. 261; p. 345.
- Steering-wheel lock. T. D. Stanley. No. 1,300,505; Apr. 15; v. 261; p. 477.
- Steering-wheel lock. E. Timmerhoff. No. 1,297,038; Mar. 11; v. 260; p. 312.
- Steering-wheel, Tiltable. E. H. Vincent. No. 1,315,261; Sept. 9; v. 266; p. 154.
- Steering-wheels, Hand-grip for. J. E. Ryan. No. 1,317,730; Oct. 7; v. 267; p. 13.
- Steering-wheels, Making. K. Hodge. No. 1,296,958; Mar. 11; v. 260; p. 294.
- Steering-wheels, Means for heating. H. Haiss. No. 1,296,286; Mar. 4; v. 260; p. 107.
- Stellar positions and influences, Means for demonstrating. G. P. Everson. No. 1,301,046; Apr. 15; v. 261; p. 592.
- Stem, pipe, and cigar holder. J. Adams and B. Schaeffer. No. 1,316,472; Sept. 16; v. 266; p. 391.
- Stencil-blank. C. E. Swett. No. 1,316,067; Sept. 16; v. 266; p. 315.
- Stencil-cutting. C. B. Stolper. No. 1,302,097; Apr. 29; v. 261; p. 863.
- Stencil-cutting machine. O. S. Watts. No. 1,305,847; June 3; v. 263; p. 116.
- Step, Extension. J. K. Davis. No. 1,315,933; Sept. 9; v. 266; p. 276.
- Stencil-holding apparatus. C. E. Harris. No. 1,324,044; Dec. 9; v. 269; p. 199.
- Stencil production. L. Lewis. No. 1,299,969; Apr. 8; v. 261; p. 335.
- Stencil-sheet. E. Thomas. No. 1,304,120; May 20; v. 262; p. 371.
- Stencils, Electrolytic process for making. R. H. Harrison. No. 1,311,275; July 29; v. 264; p. 731.
- Stenciling apparatus. J. Huneke. No. 1,312,481; Aug. 5; v. 265; p. 118.
- Stenographic writing machine. A. B. Edwards. No. 1,293,739; Feb. 11; v. 259; p. 208.



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- Stenotyped notes, Copy-holder for. A. G. Hoyl. No. 1,295,169; Feb. 25; v. 259; p. 599.
- Step-ladder, Traveling. T. Keeper. No. 1,306,546; June 10; v. 263; p. 278.
- Step-mold. F. Gottschalk. No. 1,319,385; Oct. 21; v. 267; p. 416.
- Step, Pole. P. M. Benedict. 1,322,869; Nov. 25; v. 268; p. 638.
- Step, Retractable. H. M. Witherow. No. 1,313,444; Aug. 19; v. 265; p. 351.
- Step, Sectional plastic. B. A. Stewart. No. 1,293,233; Feb. 4; v. 259; p. 59.
- Steps or step-ladder, Foldable. W. A. S. Hall. No. 1,305,281; June 3; v. 263; p. 10.
- Stepladder, Convertible. A. S. Kirby. No. 1,323,227; Nov. 25; v. 268; p. 707.
- Stereopticon. T. A. Campbell. No. 1,318,541; Oct. 14; v. 267; p. 229.
- Stereopticon apparatus. J. H. Stillwaggon. No. 1,298,417; Mar. 25; v. 260; p. 660.
- Stereopticon, Automatic. F. L. Oleson. No. 1,296,583; Mar. 4; v. 260; p. 172.
- Stereopticon, Automatic universal. W. J. Ashley. No. 1,313,241; Aug. 19; v. 265; p. 313.
- Stereopticon, Automatically-operating. J. E. Olvis. No. 1,321,241; Nov. 11; v. 268; p. 230.
- Stereopticon-machine, Automatic. J. S. Graves. No. 1,309,358; July 8; v. 264; p. 277.
- Stereopticon-slide. J. M. Cochrane. No. 1,309,183; July 8; v. 264; p. 245.
- Stereopticon-slide. T. M. Watson. No. 1,315,887; Sept. 9; v. 266; p. 268.
- Stereoscope. J. L. Disney. No. 1,292,271; Jan. 21; v. 258; p. 596.
- Stereoscope. M. N. Robles. No. 1,322,953; Nov. 25; v. 268; p. 654.
- Stereotype and other curved plates, Machine for finishing. H. C. MacConnell. No. 1,324,562; Dec. 9; v. 269; p. 298.
- Stereotype-metal conveyer. C. E. Hopkins. No. 1,313,895; Aug. 26; v. 265; p. 469.
- Stereotype-plate-casting-box-cooling apparatus. H. F. Bechman. No. 1,306,096; June 10; v. 263; p. 193.
- Stereotype-plate-finishing machine. A. A. Henzi. No. 1,293,430; Feb. 4; v. 259; p. 106.
- Stereotype-plates and the like, Mold for. C. Winkler. No. 1,313,774; Aug. 19; v. 265; p. 413.
- Stereotype-plates in plate-finishing machines, Means for clamping. H. F. Bechman. No. 1,312,073; Aug. 5; v. 265; p. 41.
- Stereotype-plates, Machine for trimming. C. Winkler. No. 1,313,775; Aug. 19; v. 265; p. 413.
- Stereotype-plates, Producing trimmed. C. Winkler. No. 1,318,942; Oct. 14; v. 267; p. 306.
- Stereotypes, Apparatus for making. B. K. Le Crone. No. 1,314,275; Aug. 26; v. 265; p. 543.
- Stereotype's matrix and vertical mold for casting stereotype-plates from it. J. J. B. Harris. No. 1,313,632; Aug. 19; v. 265; p. 387.
- Stereotyping-machine. C. L. Redfield. No. 1,313,114; Aug. 12; v. 265; p. 272.
- Sterilizer. D. E. Dufresne and W. Adamson. No. 1,315,951; Sept. 16; v. 266; p. 293.
- Sterilizer. W. S. Fiss. No. 1,295,146; Feb. 25; v. 259; p. 594.
- Sterilizer. B. F. Hildebrand. No. 1,298,631; Mar. 25; v. 260; p. 706.
- Sterilizer. W. B. Underwood. No. 1,318,246; Oct. 7; v. 267; p. 113.
- Sterilizer, Steam stool. G. O. Whitney and A. W. Ide. No. 1,325,429; Dec. 16; v. 269; p. 521.
- Sterilizers and the like, Rack for. J. C. Darnell. No. 1,309,117; July 8; v. 264; p. 233.
- Sterilizing apparatus. G. W. Hay. No. 1,316,612; Sept. 23; v. 266; p. 466.
- Sterilizing drinking-cups and the like, Means for. W. L. Mann. No. 1,290,767; Jan. 7; v. 258; p. 182.
- Stethoscope. A. H. Wilkinson. No. 1,321,266; Nov. 11; v. 268; p. 235.
- Sticker. G. G. Rookledge. No. 1,307,792; June 24; v. 263; p. 572.
- Sticker or molding machines, Setting-up device for. F. M. Meredith. No. 1,316,494; Sept. 16; v. 266; p. 395.
- Sticky material, Machine for winding up strips of. R. McClathen. No. 1,303,821; May 13; v. 262; p. 279.
- Still. A. A. Ashworth. No. 1,300,548; Apr. 15; v. 261; p. 486.
- Still. B. Gallsworthy. No. 1,294,357; Feb. 11; v. 259; p. 353.
- Still. A. C. Jewell. No. 1,325,199; Dec. 16; v. 269; p. 479.
- Still. P. C. Reilly. No. 1,310,874; July 22; v. 264; p. 624.
- Still. G. L. Rowsey. No. 1,316,511; Sept. 16; v. 266; p. 399.
- Still Acid. E. J. Manser. No. 1,320,080; Oct. 28; v. 267; p. 570.
- Still for high pressure. Pipe. F. E. Wellman. No. 1,323,383; Dec. 2; v. 269; p. 30.
- Still-scraping apparatus. A. A. Ashworth. No. 1,300,547; Apr. 15; v. 261; p. 486.
- Still, Turpentine. G. Burton. No. 1,293,027; Feb. 4; v. 259; p. 13.
- Stills and removing coke therefrom, Operating. C. B. Buerger. No. 1,302,761; May 6; v. 262; p. 53.
- Stills, apparatus for removing deposits from. N. W. Thompson. No. 1,298,602; Mar. 25; v. 260; p. 700.
- Stippling device, Automatic. J. W. Cox. No. 1,325,715; Dec. 23; v. 269; p. 592.
- Stirrer. W. G. Shelton. No. 1,317,228; Sept. 30; v. 266; p. 617.
- Stirring device. C. Minsk. No. 1,313,830; Aug. 19; v. 265; p. 423.
- Stirrup. M. M. Zellers. No. 1,303,142; May 6; v. 262; p. 127.
- Stirrup, Automatic. A. H. Porter. No. 1,323,549; Dec. 2; v. 269; p. 62.
- Stirrup, Safety-. W. G. Luttinger. No. 1,321,653; Nov. 11; v. 268; p. 308.
- Stirrup, Safety-. C. H. Wallis. No. 1,314,992; Sept. 2; v. 266; p. 95.
- Stirrup-straps, Safety-holder for. H. I. Persson. No. 1,323,311; Dec. 2; v. 269; p. 17.
- Stitch-cutter. H. C. Bellows. No. 1,295,101; Feb. 25; v. 259; p. 584.
- Stitcher drive and control mechanism. M. Christensen. No. 1,314,503; Sept. 2; v. 266; p. 5.
- Stitches, Forming. E. J. Maloney. No. 1,308,294; July 1; v. 264; p. 53.
- Stitching and ruffling machine. C. W. Thomas and F. E. Bradley. No. 1,320,185; Oct. 28; v. 267; p. 589.
- Stitching machine, Buttonhole. F. Zaleski. No. 1,318,430; Oct. 14; v. 267; p. 208.
- Stitching machine, Label-. E. B. Allen and A. R. Wood. No. 1,319,450; Oct. 21; v. 267; p. 428.
- Stitching machines, Wire-. B. G. Rand. No. 1,306,025; June 10; v. 263; p. 180.
- Stock-box. W. P. Hammond. No. 1,316,572; Sept. 23; v. 266; p. 459.
- Stock centerer and chuck. T. H. Field. No. 1,308,176; July 1; v. 264; p. 31.
- Stock-feeder. H. H. Dunham. No. 1,307,120; June 17; v. 263; p. 417.
- Stock-feeder, Automatic. E. C. Shaw. No. 1,290,373; Jan. 7; v. 258; p. 86.
- Stock-feeding device. T. J. Stockton. No. 1,293,972; Feb. 11; v. 259; p. 263.
- Stock-fountain. D. Benson. No. 1,311,374; July 29; v. 264; p. 750.
- Stock-fountain. L. C. McCartney. No. 1,309,208; July 8; v. 264; p. 249.
- Stock-fountain. R. R. Shaffer. No. 1,307,521; June 24; v. 263; p. 523.
- Stock-fountain, Sanitary heated. T. J. Bendlage. No. 1,301,805; Apr. 29; v. 261; p. 808.
- Stock-gag. C. W. Cedarstram. No. 1,308,659; July 1; v. 264; p. 119.
- Stock-gate. J. Wieler. No. 1,326,383; Dec. 30; v. 269; p. 753.
- Stock-marker. W. Johnston. No. 1,318,283; Oct. 7; v. 267; p. 120.
- Stock-oiler. G. Randall. No. 1,300,297; Apr. 15; v. 261; p. 432.
- Stock-quotation projector. B. A. Proctor. No. 1,299,024; Apr. 1; v. 261; p. 94.
- Stock-releaser. G. S. Henrikson. No. 1,294,101; Feb. 11; v. 259; p. 293.
- Stock-releasing device. A. Charvat. No. 1,308,224; July 1; v. 264; p. 40.
- Stock-releasing device. E. Deatrick. No. 1,290,110; Jan. 7; v. 258; p. 24.
- Stock-releasing device. J. Hill. No. 1,307,355; June 24; v. 263; p. 493.
- Stock-releasing device, Fire-operated. E. Eskelin. No. 1,310,612; July 22; v. 264; p. 576.
- Stock restraining and dipping device, Combined. W. C. Mouser and J. A. Speakman. No. 1,315,322; Sept. 9; v. 266; p. 165.
- Stock, Rolling-. G. F. Zaun. No. 1,312,465; Aug. 5; v. 265; p. 115.
- Stock-tank heater. H. A. Friend. No. 1,324,245; Dec. 9; v. 269; p. 237.
- Stock-waterer. P. Paulsen. No. 1,312,350; Aug. 5; v. 265; p. 92.
- Stock-waterer. P. Paulsen. No. 1,326,778; Dec. 30; v. 269; p. 828.
- Stocking. T. G. Craighead. No. 1,308,483; July 1; v. 264; p. 87.
- Stocking. R. Thierfelder. No. 1,311,255; July 29; v. 264; p. 728.
- Stocking and pad for artificial legs, Combined. E. Blevens. No. 1,319,637; Oct. 21; v. 267; p. 464.
- Stocking-bridge. P. J. Fickinger. No. 1,319,996; Oct. 28; v. 267; p. 554.
- Stocking-drying device. E. M. Limerick. No. 1,290,257; Jan. 7; v. 258; p. 59.
- Stocking-drying machine. H. Coulston. No. 1,312,236; Aug. 5; v. 265; p. 72.
- Stocking-protector. M. Clement. No. 1,292,259; Jan. 21; v. 258; p. 594.
- Stocking-supporter. H. Keys. No. 1,317,978; Oct. 7; v. 267; p. 61.

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- Stocking-supporting clasp. E. F. Barri. No. 1,324,720; Dec. 9; v. 269; p. 328.
- Stockings, Manufacturing. J. E. Quinn. No. 1,303,593; May 13; v. 262; p. 236.
- Stoker. J. Harrington. No. 1,326,590; Dec. 30; v. 269; p. 793.
- Stoker. J. Harrington. No. 1,326,591; Dec. 30; v. 269; p. 793.
- Stoker. W. W. McCaskie. No. 1,323,401; Dec. 2; v. 269; p. 34.
- Stoker, Automatic. E. J. Hart. No. 1,312,397; Aug. 5; v. 265; p. 101.
- Stoker, Automatic. H. G. Lee. No. 1,311,524; July 29; v. 264; p. 779.
- Stoker, Automatic. R. S. Riley. No. 1,292,649; Jan. 28; v. 258; p. 709.
- Stoker, Automatic. G. A. Smith. No. 1,325,589; Dec. 23; v. 269; p. 568.
- Stoker, Furnace. T. A. Marsh. No. 1,305,482; June 3; v. 263; p. 47.
- Stoker, Hand-. G. H. Thacher, Jr. No. 1,302,453; Apr. 29; v. 261; p. 931.
- Stoker, Locomotive-. H. Lindsay. No. 1,305,655; June 3; v. 263; p. 81.
- Stoker, Mechanical. R. E. Jackson and B. O. Yearwood. No. 1,319,004; Oct. 14; v. 267; p. 318.
- Stoker, Mechanical. H. E. Kleffel. (Reissue.) No. 1,474,747; Nov. 4; v. 268; p. 135.
- Stoker, Mechanical. J. Van Brunt. No. 1,309,344; July 8; v. 264; p. 275.
- Stoker, Mechanical underfeed. C. Erith. No. 1,298,189; Mar. 25; v. 260; p. 613.
- Stoker with moving dump-plate, Automatic. R. S. Riley. No. 1,322,822; Nov. 25; v. 268; p. 630.
- Stokers, &c., Adjustable driving connection for automatic. R. S. Riley. No. 1,323,650; Dec. 2; v. 269; p. 80.
- Stokers, Automatic distributor mechanism for. N. E. Gee. No. 1,313,067; Oct. 7; v. 267; p. 77.
- Stokers, Registering device for automatic. H. J. Peterson. No. 1,294,700; Feb. 18; v. 259; p. 469.
- Stoking and combustion apparatus. D. A. Wood. No. 1,293,285; Feb. 4; v. 259; p. 73.
- Stone, Artificial. M. Ebinger. No. 1,300,591; Apr. 15; v. 261; p. 495.
- Stone-creasing tool. E. E. Rice. No. 1,296,317; Mar. 4; v. 260; p. 114.
- Stone-crusher. P. C. Andersen. No. 1,298,153; Mar. 25; v. 260; p. 604.
- Stone cutting and surfacing machine. R. G. Rand. No. 1,305,834; June 3; v. 263; p. 114.
- Stone-gatherer. C. E. Chase and O. E. Hutchings. No. 1,304,156; May 20; v. 262; p. 377.
- Stone-gatherer. T. R. Manderscheid. No. 1,298,239; Mar. 25; v. 260; p. 623.
- Stone-gatherer. O. F. Reiter. No. 1,300,018; Apr. 8; v. 261; p. 344.
- Stone-gathering machine. J. W. Schroeder. No. 1,305,940; June 3; v. 263; p. 135.
- Stone-gathering machine. R. E. Zerkle. No. 1,323,804; Dec. 2; v. 269; p. 109.
- Stone or other material, Apparatus for drying. A. W. French. No. 1,308,942; July 8; v. 264; p. 199.
- Stone-picker. F. M. Wyble. No. 1,316,130; Sept. 16; v. 266; p. 326.
- Stone-rake. O. F. Reiter. No. 1,325,580; Dec. 23; v. 269; p. 567.
- Stone-raking machine. S. Marcinak. No. 1,294,818; Feb. 18; v. 259; p. 496.
- Stone-saw. D. W. Parker. No. 1,293,897; Feb. 11; v. 259; p. 245.
- Stoneworking-machine. T. Officer and H. H. Mercer. No. 1,310,248; July 15; v. 264; p. 478.
- Stoneworking, Method of and apparatus for. D. W. Custer. No. 1,313,269; Aug. 19; v. 265; p. 319.
- Stool, Adjustable milking-. S. W. Kelsey. No. 1,318,288; Oct. 7; v. 267; p. 120.
- Stool and coat-hanger, Combined. P. Bass. No. 1,290,698; Jan. 7; v. 258; p. 166.
- Stool and step, Folding. W. W. Lincoln. No. 1,325,302; Dec. 16; v. 269; p. 498.
- Stool and stepladder, Combined. D. L. Holwick. No. 1,320,008; Oct. 28; v. 267; p. 557.
- Stool, Fitting-. A. Wanner, Jr. No. 1,301,203; Apr. 22; v. 261; p. 661.
- Stool, Fitting-. A. Wanner, Jr. No. 1,310,108; July 15; v. 264; p. 452.
- Stool, Foldable. F. H. Hagner. No. 1,310,566; July 22; v. 264; p. 567.
- Stool, Folding. S. H. Mowrey. No. 1,325,164; Dec. 16; v. 269; p. 472.
- Stool, Folding. I. Schwartz and A. Klein. No. 1,295,073; Feb. 18; v. 259; p. 554.
- Stool, Folding. D. Weimer. No. 1,300,678; Apr. 15; v. 261; p. 512.
- Stool, Folding camp-. R. Choate. No. 1,321,982; Nov. 18; v. 268; p. 420.
- Stool, Folding commode-. W. J. Moore. No. 1,293,509; Feb. 4; v. 259; p. 125.
- Stool, Kitchen work-. E. M. Winterbourne. No. 1,319,258; Oct. 21; v. 267; p. 392.
- Stool, Metal. J. A. Loveland. No. 1,319,400; Oct. 21; v. 267; p. 418.
- Stool, Milking-. H. Ireland. No. 1,321,748; Nov. 11; v. 268; p. 326.
- Stool, Milking-. D. T. Rogers. No. 1,295,927; Mar. 4; v. 260; p. 24.
- Stool, Milking-. H. R. Tovrea. No. 1,295,238; Feb. 25; v. 259; p. 615.
- Stop-cock box. J. W. Calhoun. No. 1,325,393; Dec. 16; v. 269; p. 515.
- Stop device, Automatic. C. C. Harris and N. L. McLeod. No. 1,298,939; Apr. 1; v. 261; p. 74.
- Stop for cut-off machines, Adjustable. J. S. Peter. No. 1,295,587; Feb. 25; v. 259; p. 696.
- Stop for hollow tiles. O. D. Mock. No. 1,311,082; July 22; v. 264; p. 663.
- Stop means. J. Skandora. No. 1,300,232; Apr. 8; v. 261; p. 392.
- Stop mechanism. A. Latham. No. 1,316,370; Sept. 16; v. 266; p. 371.
- Stop-motion. G. H. Du Brau. No. 1,326,715; Dec. 30; v. 269; p. 815.
- Stop-motion. K. Wolff. No. 1,305,045; May 27; v. 262; p. 585.
- Stop-motion apparatus. D. C. Larson. No. 1,311,655; July 29; v. 264; p. 803.
- Stop-motion for velvet and like pile cutting machines. H. Netherwood. No. 1,292,020; Jan. 21; v. 258; p. 536.
- Stop, Phonograph-. F. A. Nolan. No. 1,319,171; Oct. 21; v. 267; p. 376.
- Stop-valve box. P. R. Crall. No. 1,310,521; July 22; v. 264; p. 559.
- Stopcock or valve. N. T. Shorts. No. 1,322,964; Nov. 25; v. 268; p. 656.
- Stopper. *See*—
- Bottle-stopper. Leak-stopper.
- Ink-bottle stopper.
- Stopper. F. F. Meyrelles. No. 1,293,854; Feb. 11; v. 259; p. 286.
- Stopper. M. C. Schweinert. No. 1,310,448; July 22; v. 264; p. 546.
- Stopper for bottom-pour ladles. J. M. English. No. 1,303,548; May 13; v. 262; p. 228.
- Stopper for rendering bottles non-refillable. L. A. Olivé. No. 1,291,093; Jan. 14; v. 258; p. 284.
- Stopping or starting mechanism. J. Reece. No. 1,291,136; Jan. 14; v. 258; p. 293.
- Storage and delivery system, Hydraulic. F. G. Farr. No. 1,299,567; Apr. 8; v. 261; p. 244.
- Storage and display stand. C. W. Eichling, Jr. No. 1,303,185; May 6; v. 262; p. 134.
- Storage batteries, Ventilation of. L. H. Flanders. No. 1,302,648; May 6; v. 262; p. 32.
- Storage batteries, Voltage-regulating means for. J. J. Sinclair. No. 1,306,315; June 10; v. 263; p. 236.
- Storage battery. S. Diller. No. 1,308,230; July 1; v. 264; p. 41.
- Storage battery. T. A. Edison. No. 1,299,693; Apr. 8; v. 261; p. 273.
- Storage battery. W. Gardiner. No. 1,322,102; Nov. 18; v. 268; p. 442.
- Storage battery. O. L. Leach. No. 1,296,408; Mar. 4; v. 260; p. 133.
- Storage battery. J. L. Lotsch. No. 1,301,780; Apr. 22; v. 261; p. 773.
- Storage battery. I. M. Noble and W. E. Gossling. No. 1,323,307; Dec. 2; v. 269; p. 16.
- Storage battery. F. A. Pocock. No. 1,323,721; Dec. 2; v. 269; p. 93.
- Storage battery. T. Spencer. No. 1,303,513; May 13; v. 262; p. 222.
- Storage-battery accessories, Stand for. H. B. Montgomery. No. 1,302,695; May 6; v. 262; p. 41.
- Storage-battery connection. C. W. Hazelett. No. 1,316,084; Sept. 16; v. 266; p. 308.
- Storage-battery connector. C. W. Hazelett. No. 1,303,311; May 13; v. 262; p. 185.
- Storage-battery construction. W. P. Loudon. No. 1,316,490; Sept. 16; v. 266; p. 394.
- Storage-battery containers, Forming. J. M. Ahlgren. No. 1,306,679; June 17; v. 263; p. 337.
- Storage-battery-filling vent. C. W. Hazelett. No. 1,316,035; Sept. 16; v. 266; p. 309.
- Storage-battery grid. L. B. Hills. No. 1,303,478; May 13; v. 262; p. 215.
- Storage-battery installation. C. H. Bedell. No. 1,313,513; Aug. 19; v. 265; p. 364.
- Storage-battery separator. C. C. Carpenter. No. 1,324,954; Dec. 16; v. 269; p. 433.
- Storage-battery separator. H. W. Nordyke. No. 1,313,324; Aug. 19; v. 265; p. 328.
- Storage-battery separator. A. O. Tate. No. 1,323,796; Dec. 2; v. 269; p. 107.
- Storage-bin, Portable and knockdown. M. B. Fitch. No. 1,311,116; July 22; v. 264; p. 669.
- Storage building, Vehicle-. M. C. Smith. No. 1,303,978; May 20; v. 262; p. 346.
- Storage-house, Air-cooled. A. G. Brown. No. 1,295,422; Feb. 25; v. 259; p. 657.
- Storage house and bin. J. M. Hughes and C. H. Lyons. No. 1,322,019; Nov. 18; v. 268; p. 427.
- Storage-rack. J. S. Turner. No. 1,325,966; Dec. 23; v. 269; p. 638.



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- Storage structure. F. M. Davis. No. 1,303,862; May 20; v. 262; p. 324.
- Storage-tank fill-box. M. J. Sage. No. 1,317,595; Sept. 30; v. 266; p. 688.
- Storage tote-boxes, Transfer-table for. C. Claus. No. 1,317,776; Oct. 7; v. 267; p. 22.
- Store-front. R. S. Pease. No. 1,309,911; July 15; v. 264; p. 417.
- Store-front construction. G. C. Hester. No. 1,291,511; Jan. 14; v. 258; p. 380.
- Store-front construction. F. J. Plym and I. G. Barclay. No. 1,299,508; Apr. 8; v. 261; p. 231.
- Store, Self-serving. E. M. Stiles. No. 1,321,571; Nov. 11; v. 268; p. 293.
- Stores, Self-serving. E. L. da Roza. No. 1,313,794; Aug. 19; v. 265; p. 417.
- Storing bulky materials, System for. A. H. Wood. No. 1,300,800; Apr. 15; v. 261; p. 539.
- Storm-sash bracket. I. W. Sipas. No. 1,306,929; June 17; v. 263; p. 382.
- Stove. C. J. Berglann. No. 1,319,322; Oct. 21; v. 267; p. 404.
- Stove. F. Beuckman and H. Bauer. No. 1,307,433; June 24; v. 263; p. 507.
- Stove. J. Grobling. No. 1,326,051; Dec. 23; v. 269; p. 654.
- Stove. B. Hardy. No. 1,320,003; Oct. 28; v. 267; p. 556.
- Stove. J. Jacucis. No. 1,311,697; July 29; v. 264; p. 810.
- Stove. S. A. Jones. No. 1,326,740; Dec. 30; v. 269; p. 820.
- Stove. C. S. Kinney. No. 1,297,183; Mar. 11; v. 260; p. 343.
- Stove. W. L. Mersfelder. No. 1,325,953; Dec. 23; v. 269; p. 636.
- Stove. W. H. Mitchell. No. 1,298,245; Mar. 25; v. 260; p. 624.
- Stove. C. A. Notman. No. 1,302,419; Apr. 29; v. 261; p. 924.
- Stove. W. E. Perryclear. No. 1,299,020; Apr. 1; v. 261; p. 93.
- Stove. G. W. Peter. No. 1,316,863; Sept. 23; v. 266; p. 612.
- Stove. G. G. Scarborough. No. 1,295,606; Feb. 25; v. 259; p. 701.
- Stove. J. G. Scott. No. 1,296,125; Mar. 4; v. 260; p. 71.
- Stove. C. B. Smith. No. 1,314,440; Aug. 26; v. 265; p. 575.
- Stove. R. E. White. No. 1,297,621; Mar. 18; v. 260; p. 465.
- Stove and fireless cooker, Combined gas-. J. E. Chambers. No. 1,321,189; Nov. 11; v. 268; p. 220.
- Stove and furnace. G. G. Garey. No. 1,322,425; Nov. 18; v. 268; p. 504.
- Stove and furnace grate. J. Reif. No. 1,325,753; Dec. 23; v. 269; p. 598.
- Stove and heater. G. Furuholmen. No. 1,322,423; Nov. 18; v. 268; p. 504.
- Stove and hot-water heater, Combined kitchen-. G. J. Rymal. No. 1,319,969; Oct. 28; v. 267; p. 549.
- Stove attachment. J. J. Olson. No. 1,311,705; July 29; v. 264; p. 812.
- Stove, Camp-. J. S. Milligan. No. 1,298,762; Apr. 1; v. 261; p. 34.
- Stove, Camp-. R. D. Turner and W. G. Dedolph. No. 1,311,302; July 29; v. 264; p. 736.
- Stove, Collapsible folding. G. W. Ferdon. No. 1,300,594; Apr. 15; v. 261; p. 495.
- Stove, Combination-. M. Berkowitz. No. 1,322,159; Nov. 18; v. 268; p. 453.
- Stove, Combination-. P. and F. Will. No. 1,307,388; June 24; v. 263; p. 499.
- Stove, Combined coal and gas. C. D. Carter. No. 1,317,397; Sept. 30; v. 266; p. 649.
- Stove, Combined coal and gas. J. H. Sattler. No. 1,317,397; Sept. 30; v. 266; p. 649.
- Stove construction. R. H. Miller. No. 1,305,394; June 3; v. 263; p. 31.
- Stove, Cook-. R. Hoffman. No. 1,318,560; Oct. 14; v. 267; p. 233.
- Stove, Cook-. E. L. McBride. No. 1,301,582; Apr. 22; v. 261; p. 733.
- Stove, Cook-. L. M. Williams. No. 1,323,562; Dec. 2; v. 269; p. 64.
- Stove, Cooking-. C. F. Cook. No. 1,297,545; Mar. 18; v. 260; p. 449.
- Stove, Cooking-. J. Ofman. No. 1,306,435; June 10; v. 263; p. 259.
- Stove cooking attachment. G. M. Scribner. No. 1,293,214; Feb. 4; v. 259; p. 55.
- Stove-door. H. Herrenbruck and F. Andreas. No. 1,311,891; Aug. 5; v. 265; p. 8.
- Stove-door. J. Roy. No. 1,315,039; Sept. 2; v. 266; p. 104.
- Stove-fastener. R. Shurtleff. No. 1,321,676; Nov. 11; v. 268; p. 312.
- Stove, Field-. J. Watson. No. 1,300,527; Apr. 15; v. 261; p. 481.
- Stove, Fluid heating and cooking. M. J. Otto. No. 1,312,804; Aug. 12; v. 265; p. 211.
- Stove, Folding. J. Watson. No. 1,296,144; Mar. 4; v. 260; p. 75.
- Store-front construction. H. E. James. No. 1,320,864; Nov. 4; v. 268; p. 95.
- Stove, Gas-. A. H. Humphrey. No. 1,311,895; Aug. 5; v. 265; p. 8.
- Stove, Gas-. W. F. Rogers. No. 1,311,181; July 29; v. 264; p. 714.
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- Stove, Gas heating-. D. N. Gross. No. 1,313,813; Aug. 19; v. 265; p. 420.
- Stove, Heating-. I. Markley. No. 1,315,379; Sept. 9; v. 266; p. 175.
- Stove, Heating-. J. C. Sutton. No. 1,314,442; Aug. 26; v. 265; p. 575.
- Stove, Heating-. L. J. Weatherwax. No. 1,314,550; Sept. 2; v. 266; p. 14.
- Stove, Hot-blast. W. O. Amsler. No. 1,319,985; Oct. 28; v. 267; p. 552.
- Stove, Lamp-. W. B. Reininger. No. 1,298,789; Apr. 1; v. 261; p. 41.
- Stove-lid, Auxiliary. E. S. Green. No. 1,326,048; Dec. 23; v. 269; p. 653.
- Stove-lighter, Automatic. W. J. Mulvaney. No. 1,299,376; Apr. 1; v. 261; p. 172.
- Stove-lighter, Time-controlled. J. J. Naughton. No. 1,314,354; Aug. 26; v. 265; p. 558.
- Stove lining and grate assembly, Combination. L. C. Adams. No. 1,314,845; Sept. 2; v. 266; p. 69.
- Stove, Oil-. L. S. Chadwick. No. 1,323,215; Nov. 25; v. 268; p. 705.
- Stove, Oil-. F. E. White and F. E. Hooper. No. 1,290,856; Jan. 7; v. 258; p. 201.
- Stove, Oil-burner. W. T. Fling. No. 1,306,954; June 17; v. 263; p. 387.
- Stove, Oil-burning. E. A. Smith. No. 1,310,254; July 15; v. 264; p. 479.
- Stove, Oil-heating. H. B. Reppetto. No. 1,294,831; Feb. 18; v. 259; p. 499.
- Stove or range. L. R. Motherwell. No. 1,325,106; Dec. 16; v. 269; p. 461.
- Stove, Petroleum-oil. H. B. Hemphill. No. 1,307,583; June 24; v. 263; p. 534.
- Stove-polish. C. Devlin. No. 1,304,163; May 20; v. 262; p. 379.
- Stove, Pocket-. G. H. Fritzsche. No. 1,294,647; Feb. 18; v. 259; p. 457.
- Stove, Portable. S. A. Duncan. No. 1,325,694; Dec. 23; v. 269; p. 588.
- Stove, Reversible. W. Thomas. No. 1,293,578; Feb. 4; v. 259; p. 140.
- Stove smoke-hood. A. T. Bomhard. No. 1,298,164; Mar. 25; v. 260; p. 607.
- Stove water-top, Gas-. A. Leckey. No. 1,298,740; Apr. 1; v. 261; p. 28.
- Stoves and ranges, Electric heating attachment for cook-. J. A. Dagenais. No. 1,322,670; Nov. 25; v. 268; p. 601.
- Stoves, Attachment for. M. F. Tremain. No. 1,307,163; June 17; v. 263; p. 424.
- Stoves, Combination stove-top and water-heater for gas and vapor. W. J. Elliott. No. 1,305,647; June 3; v. 263; p. 80.
- Stoves, Combined simmering-burner and lighter for gas-. H. Ruppel. No. 1,322,349; Nov. 18; v. 268; p. 489.
- Stoves, Draft-producer for. J. G. Lamb. No. 1,297,871; Mar. 18; v. 260; p. 519.
- Stoves, Gas attachment for oil-. E. V. Jungk. No. 1,322,453; Nov. 18; v. 268; p. 509.
- Stoves into soft-coal heaters, Means for converting base-burner. J. A. Alwart. No. 1,305,764; June 3; v. 263; p. 101.
- Stoves, Reservoir for oil-. R. Perlick. No. 1,307,878; June 24; v. 263; p. 587.
- Stoves, safety appliance for gas-. M. W. Galloway. No. 1,322,894; Nov. 25; v. 268; p. 643.
- Stoves, Steam cooking or warming attachment for. T. West. No. 1,319,544; Oct. 21; v. 267; p. 446.
- Stoves, Water-heater and auxiliary oven for. T. H. Stedman. No. 1,313,754; Aug. 19; v. 265; p. 409.
- Stoves, Water-heater for oil-. A. E. McCabe. No. 1,310,709; July 22; v. 264; p. 593.
- Stoves, Water-heating attachment for. J. H. N. Christian. No. 1,316,940; Sept. 23; v. 266; p. 526.
- Stovepipe. C. A. Bever. No. 1,315,904; Sept. 9; v. 266; p. 270.
- Stovepipe. J. L. Hemp. No. 1,313,633; Aug. 19; v. 265; p. 387.
- Stovepipe attachment. M. McGee. No. 1,320,255; Oct. 28; v. 267; p. 603.
- Stovepipe-cleaner. L. Frasier. No. 1,310,525; July 22; v. 264; p. 560.
- Stovepipe-collar holder. M. J. Faistl. No. 1,312,900; Aug. 12; v. 265; p. 229.
- Stovepipe-coupling. L. Bernia. No. 1,298,869; Apr. 1; v. 261; p. 58.
- Stovepipe-damper. J. Hutchinson and C. C. Hamilton. No. 1,308,492; July 1; v. 264; p. 88.
- Stovepipe-fastener. C. F. Townsend. No. 1,305,504; June 3; v. 263; p. 52.
- Stovepipe-holder. A. T. Mills. No. 1,325,650; Dec. 23; v. 269; p. 580.

- Stovepipe holder and brace. H. A. Bailey. No. 1,304,726; May 27; v. 262; p. 525.
- Stovepipe-joint. W. Levin. No. 1,325,949; Dec. 23; v. 269; p. 635.
- Stovepipe-thimble. R. Shurtleff. No. 1,321,675; Nov. 11; v. 268; p. 312.
- Stovepipes, Joint and locking means for. J. H. Jacobs. No. 1,301,565; Apr. 22; v. 261; p. 730.
- Straight-lift elevators, Automatic ejector for. H. J. Buck. No. 1,302,631; May 6; v. 262; p. 28.
- Straightening deformed or club feet, Device for. G. A. Nelson. No. 1,301,491; Apr. 22; v. 261; p. 716.
- Straightening-press and operating same. C. O. Weissenburger. No. 1,300,679; Apr. 15; v. 261; p. 512.
- Strainer. K. W. Bartlett. No. 1,326,385; Dec. 30; v. 269; p. 753.
- Strainer. E. P. Johnson. No. 1,304,059; May 20; v. 262; p. 360.
- Strainer. W. Parks. No. 1,314,829; Sept. 2; v. 266; p. 66.
- Strainer. F. and T. Wiehl. No. 1,303,438; May 13; v. 262; p. 208.
- Strainer. W. B. Wills. No. 1,307,569; June 24; v. 263; p. 531.
- Strainer. W. B. Wills. No. 1,310,773; July 22; v. 264; p. 606.
- Strainer, Coffee-. W. R. Durgin. No. 1,306,050; June 10; v. 263; p. 184.
- Strainer-holder, Extension. I. A. Green. No. 1,304,762; May 27; v. 262; p. 532.
- Strainer, Milk-. C. L. Brainard. No. 1,314,042; Aug. 26; v. 265; p. 498.
- Strainer, Milk-. G. R. James. No. 1,313,992; Aug. 26; v. 265; p. 488.
- Strainer, Milk-. G. A. Konkle. No. 1,307,677; June 24; v. 263; p. 551.
- Strainer, Milk-. D. Mould. No. 1,291,599; Jan. 14; v. 258; p. 401.
- Strainer or turnbuckle, Wire. S. R. Parkes. No. 1,302,425; Apr. 29; v. 261; p. 926.
- Strainer, Steam-. G. A. Teeling. No. 1,297,978; Mar. 18; v. 260; p. 543.
- Strainer-support and screen. M. J. Ostul. No. 1,290,303; Jan. 7; v. 258; p. 70.
- Strand fabric, Making. M. A. Marquette. No. 1,304,694; May 27; v. 262; p. 520.
- Strap. *See*—
- |                      |                         |
|----------------------|-------------------------|
| Anchor-strap.        | Lug-strap.              |
| Baby's safety-strap. | Pick-stick check-strap. |
| Box-strap.           | Picker-strap.           |
| Car-strap.           | Skate-strap.            |
- Strap-fastener. C. L. Harper. No. 1,310,119; July 15; v. 264; p. 455.
- Strap-fastener-operating appliance. S. J. Turner. No. 1,319,127; Oct. 21; v. 267; p. 366.
- Strap-ferrules, Making. W. Withington. No. 1,292,202; Jan. 21; v. 258; p. 581.
- Straw-finishing composition. H. Milanoff. No. 1,305,146; May 27; v. 262; p. 604.
- Strap-securing apparatus. A. L. Ward. No. 1,316,126; Sept. 16; v. 266; p. 325.
- Strap-tightener. S. J. Turner. No. 1,319,126; Oct. 21; v. 267; p. 366.
- Strap tightener and fastener. W. W. Robinson. No. 1,324,927; Dec. 16; v. 269; p. 428.
- Strap-tightening tool. E. J. Brooks. No. 1,299,113; Apr. 1; v. 261; p. 114.
- Strap wrench. P. Monahan. No. 1,294,515; Feb. 18; v. 259; p. 426.
- Straps, Securing device for looped. G. T. Fuller. No. 1,323,359; Dec. 2; v. 269; p. 26.
- Straw cap. H. Julich. No. 1,291,014; Jan. 14; v. 258; p. 264.
- Straw cases, Machine for automatically binding the head ends of. P. M. Diks and M. van den Heuvel. No. 1,323,169; Nov. 25; v. 268; p. 696.
- Street-center-crossing indicator. G. Friel. No. 1,295,021; Feb. 18; v. 259; p. 542.
- Street-cleaning machine. W. F. Atkinson. No. 1,291,634; Jan. 14; v. 258; p. 409.
- Straw-dispenser. R. B. Gilchrist. No. 1,325,319; Dec. 16; v. 269; p. 502.
- Street-flusher. E. D. Perry. No. 1,293,534; Feb. 4; v. 259; p. 130.
- Straw-spreader. H. L. Litchfield and V. Speer. No. 1,313,637; Aug. 19; v. 265; p. 388.
- Straw-spreader. M. Rapp. No. 1,313,735; Aug. 19; v. 265; p. 406.
- Straw-spreader. J. H. Rude. No. 1,321,152; Nov. 11; v. 268; p. 213.
- Straw-spreading machine. M. Rapp. (Reissue.) No. 1,471,5; Aug. 19; v. 265; p. 433.
- Straw-stacker, Pneumatic. W. F. MacGregor. No. 1,320,079; Oct. 28; v. 267; p. 570.
- Straws or tubes, Machine for waxing. C. and F. Casey. No. 1,325,351; Dec. 16; v. 269; p. 507.
- Strawberry-plant support. E. A. Hammond. No. 1,319,769; Oct. 28; v. 267; p. 512.
- Street and station indicator. L. Oschl. No. 1,316,691; Sept. 23; v. 266; p. 481.
- Street and station indicator. C. W. Wright. No. 1,325,131; Dec. 16; v. 269; p. 466.
- Street-car indicator. F. Aschmotat. No. 1,302,495; May 6; v. 262; p. 4.
- Street-car indicator. E. Myette. No. 1,321,234; Nov. 11; v. 268; p. 229.
- Street-crossing signal. W. E. Carr. No. 1,308,658; July 1; v. 264; p. 119.
- Street-indicating device. E. P. Follett. No. 1,305,271; June 3; v. 263; p. 8.
- Street-indicator. W. O. Bunnell and Q. A. Gates. No. 1,310,279; July 15; v. 264; p. 484.
- Street-indicator. D. A. Downey. No. 1,311,056; July 22; v. 264; p. 658.
- Street-indicator. B. F. Heber. No. 1,295,493; Feb. 25; v. 259; p. 674.
- Street-indicator. J. Hornik and J. Trautner. No. 1,315,501; Sept. 9; v. 266; p. 198.
- Street-indicator. B. H. Trapp. No. 1,323,931; Dec. 2; v. 269; p. 133.
- Street-indicator. W. A. and S. Wilson. No. 1,316,470; Sept. 16; v. 266; p. 390.
- Street or station indicator. C. P. F. McDonnell. No. 1,325,481; Dec. 16; v. 269; p. 530.
- Street-sprinkler. G. J. Starmanns. No. 1,290,393; Jan. 7; v. 258; p. 91.
- Street-surface delineator. C. Kern. No. 1,325,851; Dec. 23; v. 269; p. 617.
- Street-sweeping machine. B. Kern. No. 1,306,910; June 17; v. 263; p. 378.
- Street-sweeping machine. B. Kern. No. 1,306,911; June 17; v. 263; p. 379.
- Street-sweeping machine. B. Kern. No. 1,325,296; Dec. 16; v. 269; p. 497.
- Street-sweeping machine. B. Kern. No. 1,325,297; Dec. 16; v. 269; p. 497.
- Street-sweeping-machine broom. P. Drugas. No. 1,295,136; Feb. 25; v. 259; p. 592.
- Street-traffic signal, Portable. C. H. Peck. No. 1,317,819; Oct. 7; v. 267; p. 30.
- Stress-recorder. H. J. Fereday. No. 1,307,902; June 24; v. 263; p. 592.
- Stretchers, Lugging-. J. W. Buller. No. 1,298,452; Mar. 25; v. 260; p. 668.
- Stretching-frame. S. Friedlander. No. 1,297,556; Mar. 18; v. 260; p. 451.
- Stretcher. J. P. Kenyon. No. 1,303,915; May 20; v. 262; p. 334.
- Stretcher. G. S. Samuelson. No. 1,320,799; Nov. 4; v. 268; p. 83.
- Stretcher. B. Steilonis. No. 1,317,234; Sept. 30; v. 266; p. 618.
- Stretcher. N. and F. Whitesel. No. 1,304,006; May 20; v. 262; p. 350.
- Stretcher-support. J. M. Breitenbach. No. 1,312,516; Aug. 12; v. 265; p. 154.
- Stretching-machine. A. L. Russell and C. E. Grush. No. 1,313,917; Aug. 26; v. 265; p. 473.
- String-cutter. T. Pattie. No. 1,311,616; July 29; v. 264; p. 795.
- String-cutting ring. H. Hirakawa. No. 1,309,325; July 8; v. 264; p. 271.
- String instrument. E. I. Shashou. No. 1,291,192; Jan. 14; v. 258; p. 306.
- Stringed-instrument brace. N. C. and H. M. Maine. No. 1,317,089; Sept. 23; v. 266; p. 554.
- Stringed-instrument tailpiece. H. S. Heller and J. Jorgenson. No. 1,296,183; Mar. 4; v. 260; p. 85.
- Strip-registering mechanism. W. B. Tunstall. No. 1,325,814; Dec. 23; v. 269; p. 610.
- Strip-serving device. J. D. McLaurin. No. 1,304,693; May 27; v. 262; p. 519.
- Strip-serving device. A. E. Rideout. No. 1,314,216; Aug. 26; v. 265; p. 531.
- Strip-severing device. J. H. Adamee. No. 1,298,431; Mar. 25; v. 260; p. 664.
- Stripper-harvesters, Crop-lifting attachment for. F. C. Lieschke. No. 1,320,877; Nov. 4; v. 268; p. 98.
- Stripping and tipping device, Automatic. T. C. Welch. No. 1,315,888; Sept. 9; v. 266; p. 268.
- Stripping apparatus. J. A. Holmquist. No. 1,317,500; Sept. 30; v. 266; p. 669.
- Stripping-furnace. F. H. Wolever. No. 1,316,993; Sept. 23; v. 266; p. 536.
- Stripping mechanism. W. L. Silvernail. No. 1,314,759; Sept. 2; v. 266; p. 53.
- Stroboscopic effect, Method and apparatus for producing. L. E. Dodd. No. 1,322,549; Nov. 25; v. 268; p. 579.
- Strapping device and safety-razor, Combination. L. Heuser. No. 1,301,437; Apr. 22; v. 261; p. 706.
- Strapping element. G. G. Floyd. No. 1,304,953; May 27; v. 262; p. 567.
- Structural block. W. H. Rook, Jr. No. 1,291,160; Jan. 14; v. 258; p. 299.
- Structural block. W. H. Rook, Jr. No. 1,296,559; Mar. 4; v. 260; p. 166.
- Structural composition. E. R. Taylor and I. Flexner. No. 1,302,452; Apr. 29; v. 261; p. 931.
- Structural member. R. A. Osmun. No. 1,297,228; Mar. 11; v. 260; p. 353.
- Structural-shape shear. C. Gabriel. No. 1,309,848; July 15; v. 264; p. 405.
- Structure and block therefor, Ventilated. J. D. Jones. No. 1,302,669; May 6; v. 262; p. 35.



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- Structure and making same, Reinforced. G. A. Schick, Jr. No. 1,304,811; May 27; v. 262; p. 541.
- Structure formed of materials having different coefficients of expansion. G. I. Leonard. No. 1,304,993; May 27; v. 262; p. 575.
- Structure, Supporting. K. R. Hemmerly. No. 1,308,419; July 1; v. 264; p. 75.
- Structures, Mold for segmental. W. H. Evers. No. 1,305,704; June 3; v. 263; p. 90.
- Strut connection. A. V. Roe. No. 1,301,748; Apr. 22; v. 261; p. 766.
- Stubbing-bar. D. Madill. No. 1,293,151; Feb. 4; v. 259; p. 41.
- Stucco, Device for applying. J. E. Hodges. (Reissue.) No. 14,721; Sept. 9; v. 266; p. 277.
- Stucco-tool. E. N. Campbell. No. 1,297,541; Mar. 18; v. 260; p. 448.
- Stud-and-socket fastener. D. Bourque. No. 1,292,574; Jan. 28; v. 258; p. 691.
- Stud-and-socket fastener. D. Bourque. No. 1,300,337; Apr. 15; v. 261; p. 441.
- Stud-bolt wrench. C. Keller. No. 1,323,987; Dec. 2; v. 269; p. 144.
- Stud-driver. F. M. Funk. No. 1,298,324; Mar. 25; v. 260; p. 641.
- Stud-driver. F. M. Funk. No. 1,308,490; July 1; v. 264; p. 88.
- Stud-fastener plate. L. J. Sullivan. No. 1,296,337; Mar. 4; v. 260; p. 118.
- Stud-hold-on attachment. W. G. McGee and J. Fogarty. No. 1,326,075; Dec. 23; v. 269; p. 659.
- Stud-threading machine. O. A. Smith and B. F. Rindfleisch. No. 1,315,427; Sept. 9; v. 266; p. 184.
- Stuffer or filer. J. M. Peterson. No. 1,309,335; July 8; v. 264; p. 273.
- Stuffing and packing machine. M. A. Sidwell. No. 1,294,104; Feb. 11; v. 259; p. 294.
- Stuffing-box. W. G. Wilson. No. 1,321,965; Nov. 18; v. 268; p. 417.
- Stuffing-box. J. M. Kern. No. 1,304,690; May 27; v. 262; p. 519.
- Stump-burner. P. D. Raymond. No. 1,315,412; Sept. 9; v. 266; p. 181.
- Stump-burner. E. Tilden. No. 1,310,718; July 22; v. 264; p. 595.
- Stump collecting and piling machine. W. W. Rabey. No. 1,325,579; Dec. 23; v. 269; p. 566.
- Stump-extracting machinery. F. L. Kenney. No. 1,291,918; Jan. 21; v. 258; p. 510.
- Stump-puller. R. L. Etter. No. 1,297,817; Mar. 18; v. 260; p. 508.
- Stump-puller. F. E. Kenney. No. 1,313,545; Aug. 19; v. 265; p. 370.
- Stump-puller. T. H. Monk. No. 1,298,372; Mar. 25; v. 260; p. 650.
- Stump-puller. O. Mosier. No. 1,320,636; Nov. 4; v. 268; p. 52.
- Stump-puller. J. E. Sotka. No. 1,315,429; Sept. 9; v. 266; p. 184.
- Stump removing and clearing machine. S. L. Hurd. No. 1,321,044; Nov. 4; v. 268; p. 129.
- Stylus and holder for same. C. A. Muller. No. 1,290,295; Jan. 7; v. 258; p. 68.
- Stylus-guiding device. H. Horn. No. 1,303,900; May 20; v. 262; p. 331.
- Stylus-holder. R. N. Brown and A. H. Rintelman. No. 1,292,575; Jan. 28; v. 258; p. 691.
- Subaqueous sweep by way of sweeping. Apparatus for searching and locating. Y. Matsumura. No. 1,305,483; June 8; v. 263; p. 48.
- Sublimator. Preparing. E. G. Moeyes. No. 1,312,743; Aug. 12; v. 265; p. 199.
- Sublimation apparatus. E. W. Kluchansky. No. 1,304,572; May 27; v. 262; p. 497.
- Submarine. W. Bergin. No. 1,324,722; Dec. 9; v. 269; p. 328.
- Submarine. F. J. Lieske. No. 1,300,744; Apr. 15; v. 261; p. 526.
- Submarine. F. J. Lieske. No. 1,300,745; Apr. 15; v. 261; p. 527.
- Submarine. G. Lockhart. No. 1,290,259; Jan. 7; v. 258; p. 59.
- Submarine. W. Logusz. No. 1,294,922; Feb. 18; v. 259; p. 521.
- Submarine. W. S. Pinou. No. 1,317,033; Sept. 23; v. 266; p. 544.
- Submarine and operating same. F. Shuman. No. 1,310,253; July 15; v. 264; p. 479.
- Submarine apparatus. R. A. Fessenden. No. 1,291,458; Jan. 14; v. 258; p. 368.
- Submarine apparatus. G. Formiglia and A. Maulo. No. 1,320,750; Nov. 4; v. 268; p. 73.
- Submarine artillery. K. Dougan. No. 1,303,266; May 13; v. 262; p. 178.
- Submarine craft. Means for destroying enemy. A. Adkins. No. 1,309,391; July 8; v. 264; p. 283.
- Submarine-destroyer. G. H. Georgelis. No. 1,296,646; Mar. 11; v. 260; p. 222.
- Submarine-destroying apparatus. C. S. Henslee. No. 1,315,122; Sept. 2; v. 266; p. 118.
- Submarine-destroyer. Multiple. J. M. Saladiner. No. 1,295,213; Feb. 25; v. 259; p. 609.
- Submarine detector or telltale. J. P. Geraghty. No. 1,292,755; Jan. 28; v. 258; p. 733.
- Submarine tender. M. Sapuzak. No. 1,307,518; June 24; v. 263; p. 522.
- Submarine observatory. E. D. Stodder. No. 1,313,838; Aug. 19; v. 265; p. 425.
- Submarine-protecting device. L. B. Trask. No. 1,295,818; Feb. 25; v. 259; p. 749.
- Submarine salvage operations. Machine for. A. J. Bergeron. No. 1,304,012; May 20; v. 262; p. 351.
- Submarine scouting apparatus. F. G. Grantbam. No. 1,324,961; Dec. 16; v. 269; p. 434.
- Submarine signaling device. G. H. Walker. No. 1,300,062; Apr. 8; v. 261; p. 354.
- Submarine. Small. T. W. Sofge. No. 1,304,617; May 27; v. 262; p. 505.
- Submarine-testing tank. H. E. Grieshaber. No. 1,309,728; July 15; v. 264; p. 383.
- Submarine-testing tank. H. E. Grieshaber and R. C. Simpson. No. 1,309,756; July 15; v. 264; p. 389.
- Submarine-testing tank. F. W. Hibbs and T. M. Gunn. No. 1,309,736; July 15; v. 264; p. 385.
- Submarines and other submergible floating structures. Construction of water-ballast tanks for. E. Schneider. No. 1,310,877; July 22; v. 264; p. 625.
- Submarines. Apparatus for destroying. A. McDougall. No. 1,293,140; Feb. 4; v. 259; p. 39.
- Submarines. Apparatus for localizing submerged. B. A. Fiske. No. 1,293,744; Feb. 11; v. 259; p. 209.
- Submarines. Method and means for destroying. J. A. Steinmetz. No. 1,325,541; Dec. 23; v. 269; p. 560.
- Subsoiler, plow, and the like. H. P. Townner. No. 1,309,920; July 15; v. 264; p. 419.
- Substation apparatus. V. A. Hain. No. 1,315,830; Sept. 9; v. 266; p. 256.
- Sucker-rod. Armored. Jam-joint. R. W. Gunn and W. A. S. Thompson. No. 1,326,259; Dec. 30; v. 269; p. 730.
- Suction and pressure creating apparatus. B. Skidmore, Jr. No. 1,312,588; Aug. 12; v. 265; p. 169.
- Suction apparatus for surgical use. A. H. Tuttle. No. 1,316,340; Sept. 16; v. 266; p. 366.
- Suction-cleaner. O. Drake. No. 1,291,802; Jan. 21; v. 258; p. 480.
- Suction-cleaner. J. B. Kirby. No. 1,302,929; May 6; v. 262; p. 86.
- Suction-cleaner. W. W. Rosenfield. No. 1,296,121; Mar. 4; v. 260; p. 70.
- Suction-cleaner. W. W. Rosenfield. No. 1,300,196; Apr. 8; v. 261; p. 384.
- Suction-cleaners. Bag and attachment for. H. E. and H. W. Hoover. No. 1,319,079; Oct. 21; v. 267; p. 357.
- Suction-cleaners. Brush-driving device for. H. W. Hoover. No. 1,309,093; July 8; v. 264; p. 229.
- Suction-cleaners. Brush-support for. H. E. Hoover. No. 1,324,195; Dec. 9; v. 269; p. 227.
- Suction-cleaners. Brush-supporting device for. H. W. Hoover. No. 1,309,092; July 8; v. 264; p. 228.
- Suction cleaning apparatus. W. G. Trautman. No. 1,293,250; Feb. 4; v. 259; p. 63.
- Suction cleaning device. W. V. Orr. No. 1,314,693; Sept. 2; v. 266; p. 42.
- Suction-cup. Double. C. M. Wolcott. No. 1,298,139; Mar. 25; v. 260; p. 602.
- Suction-producing apparatus. G. W. Garman. No. 1,320,224; Oct. 28; v. 267; p. 596.
- Sugar. Apparatus for crystallizing. R. E. Daly. No. 1,312,305; Aug. 5; v. 265; p. 84.
- Sugar-bowl. Sanitary. Q. Giletti. No. 1,326,131; Dec. 23; v. 269; p. 669.
- Sugar-cane, &c. press. C. D. van Raalten. No. 1,326,231; Dec. 30; v. 269; p. 724.
- Sugar-dispensing device. T. Frederick. No. 1,296,788; Mar. 11; v. 260; p. 254.
- Sugar-dispensing device. H. J. Grenier. No. 1,312,320; Aug. 5; v. 265; p. 87.
- Sugar from cane, &c. Method of and apparatus for extracting. G. F. Greenwood. No. 1,299,458; Apr. 8; v. 261; p. 220.
- Sugar from dried sugar-beets. Extracting. G. H. Benjamin. No. 1,319,320; Oct. 21; v. 267; p. 403.
- Sugar juices or syrups. Purifying. P. L. Wooster. No. 1,304,438; May 20; v. 262; p. 433.
- Sugar. Making. R. W. Mumford. No. 1,314,203; Aug. 26; v. 265; p. 528.
- Sugar-making apparatus. Cleaning. E. H. Man. No. 1,326,280; Dec. 30; v. 269; p. 734.
- Sugar solutions. Continuous defecation of. G. B. Williamson. No. 1,317,607; Sept. 30; v. 266; p. 690.
- Sugar. Treatment or preparation of. E. Shaw and G. S. Baker. No. 1,309,425; July 8; v. 264; p. 290.
- Suit-box. E. Baker. No. 1,319,263; Oct. 21; v. 267; p. 393.
- Suitcase. C. F. Blanke. No. 1,299,291; Apr. 1; v. 261; p. 154.
- Suitcase. Collapsible. E. E. Hartman. No. 1,319,072; Oct. 21; v. 267; p. 356.
- Suitcase. Combination folding. F. S. Brook. No. 1,293,685; Feb. 11; v. 259; p. 195.
- Suitcase. Wardrobe. S. D. Logan. No. 1,292,493; Jan. 28; v. 258; p. 670.

- Suitcases, Machine for making metal binding for. A. Kipniss and M. P. Neumann. No. 1,317,581; Sept. 30; v. 266; p. 685.
- Sulfate, &c., from saline liquors, Obtaining potassium sodium. G. B. Burnham. No. 1,321,282; Nov. 11; v. 268; p. 238.
- Sulfate of zirconium and making same, Basic. E. J. Pugh. No. 1,316,107; Sept. 16; v. 266; p. 322.
- Sulfate, Production of dimethyl. T. H. Durrans. No. 1,317,648; Sept. 30; v. 266; p. 698.
- Sulfate, Washing ammonium. F. E. Dodge. No. 1,321,993; Nov. 18; v. 268; p. 422.
- Sulfid-ores, Treating. M. Sem. No. 1,317,179; Sept. 30; v. 266; p. 608.
- Sulfids, Making soluble. R. F. Bacon. No. 1,310,151; July 15; v. 264; p. 460.
- Sulfids, Oxidation of. G. N. Libby. No. 1,323,879; Dec. 2; v. 269; p. 123.
- Sulfite-boller plant. J. K. Ruths. No. 1,292,080; Jan. 21; v. 258; p. 551.
- Sulfite-liquor product and producing same. C. Ellis. No. 1,311,215; July 29; v. 264; p. 721.
- Sulfite liquors, &c., Treating waste. V. Drewsen. No. 1,298,476; Mar. 25; v. 260; p. 673.
- Sulfite liquors, &c., Treating waste. V. Drewsen. No. 1,298,477; Mar. 25; v. 260; p. 674.
- Sulfite liquors, Treatment of waste. O. W. Willcox. No. 1,312,293; Aug. 5; v. 265; p. 81.
- Sulfite waste liquor, Drying. C. Ellis. No. 1,311,218; July 29; v. 264; p. 721.
- Sulfite-waste-liquor product. C. Ellis. No. 1,311,220; July 29; v. 264; p. 721.
- Sulfite-waste-liquor solid and making same, Dried. C. Ellis. No. 1,311,217; July 29; v. 264; p. 721.
- Sulfonated-mineral-oil-sludge product and making. R. E. Divine. No. 1,301,662; Apr. 22; v. 261; p. 748.
- Sulfur, Apparatus for mining. J. W. Peters. No. 1,293,902; Feb. 11; v. 259; p. 246.
- Sulfur dioxide from solution, Extracting and desiccating. J. Davenport. No. 1,317,688; Oct. 7; v. 267; p. 6.
- Sulfur dioxide, Method and apparatus for recovering. H. K. Moore and G. A. Richter. No. 1,315,189; Sept. 2; v. 266; p. 131.
- Sulfur from metal sulfids, Process for the extraction of. M. Helbig. No. 1,315,496; Sept. 9; v. 266; p. 197.
- Sulfur from sulfur ores, Extracting. A. K. Sedgwick. No. 1,318,015; Oct. 7; v. 267; p. 68.
- Sulfur-mining, Apparatus for. R. E. Carmichael. No. 1,324,301; Dec. 9; v. 269; p. 248.
- Sulfur-oxidizing process and apparatus therefor. A. G. McIntyre. No. 1,303,348; May 13; v. 262; p. 192.
- Sulfur, Process and apparatus for extracting. W. D. Huff. No. 1,317,625; Sept. 30; v. 266; p. 693.
- Sulfur, Recovery of. R. Sal Datta. No. 1,313,370; Aug. 19; v. 265; p. 337.
- Sulfur trioxid, Making. W. H. Seamon. No. 1,292,098; Jan. 21; v. 258; p. 555.
- Sun-shield. M. J. Cooney. No. 1,322,544; Nov. 25; v. 268; p. 578.
- Sunken handle, Removable. O. M. Otte. No. 1,304,700; May 27; v. 262; p. 521.
- Sunken vessels and the like, Apparatus for raising. K. A. Olson. No. 1,308,528; July 1; v. 264; p. 95.
- Superheater. J. A. Barnes and S. W. Schofield. No. 1,311,868; Aug. 5; v. 265; p. 3.
- Superheater. J. E. Bell. No. 1,296,739; Mar. 11; v. 260; p. 244.
- Superheater. B. Broido. No. 1,323,446; Dec. 2; v. 269; p. 42.
- Superheater. E. A. Geoghegan. No. 1,309,025; July 8; v. 264; p. 216.
- Superheater. F. C. Stimmel. No. 1,322,368; Nov. 18; v. 268; p. 493.
- Superheater-boller. J. P. Sneddon. (Reissue). No. 1,462,000; Mar. 25; v. 260; p. 707.
- Superheater-element connecting means. N. T. McKee. No. 1,300,750; Apr. 15; v. 261; p. 528.
- Superheater, Steam. T. Sugden and A. E. Fielding. No. 1,318,185; Oct. 7; v. 267; p. 100.
- Superheater-tubes, Expanding. E. H. Foster. No. 1,304,954; May 27; v. 262; p. 567.
- Superheater unit. J. J. Donnelly. No. 1,325,147; Dec. 16; v. 269; p. 469.
- Superheater unit. F. N. Poignaud. No. 1,304,091; May 20; v. 262; p. 366.
- Superheaters, Anchoring means for. L. B. Nutting. No. 1,313,326; Aug. 19; v. 265; p. 328.
- Superpress numbering-machine. J. H. Gieske. No. 1,324,248; Dec. 9; v. 269; p. 237.
- Supply-base, Submergible and towable. W. W. Potter. No. 1,301,738; Apr. 22; v. 261; p. 764.
- Supply mechanism. J. C. Schaffer. No. 1,301,978; Apr. 29; v. 261; p. 841.
- Support. R. Fitzgerald. No. 1,297,820; Mar. 18; v. 260; p. 508.
- Support. L. L. Gilcrease. No. 1,320,613; Nov. 4; v. 268; p. 48.
- Support. A. Michelin. No. 1,326,363; Dec. 30; v. 269; p. 749.
- Support. R. W. Van Buren. No. 1,294,729; Feb. 18; v. 259; p. 475.
- Support, Light. T. Sheley. No. 1,302,981; May 6; v. 262; p. 95.
- Supporter. L. C. Leak. No. 1,307,503; June 24; v. 263; p. 320.
- Supporting-clamp. C. T. Tobiasson and O. Swanson. No. 1,301,885; Apr. 29; v. 261; p. 823.
- Supporting and hoisting mechanism. I. Benjamins. No. 1,307,653; June 24; v. 263; p. 546.
- Supporting-clamp for burrettes, other tubes, and rods. J. J. Morgan and L. H. Becker. No. 1,318,899; Oct. 14; v. 267; p. 298.
- Supporting device. E. S. Booth. No. 1,312,230; Aug. 5; v. 265; p. 71.
- Supporting device. R. S. Peirce. No. 1,318,584; Oct. 14; v. 264; p. 238.
- Supporting-jack. E. F. Hartwick. No. 1,313,087; Aug. 12; v. 265; p. 267.
- Supporting-jack, Automatic. C. H. Land, Jr. No. 1,303,922; May 20; v. 262; p. 335.
- Surf-board. H. H. Newby. No. 1,324,687; Dec. 9; v. 269; p. 322.
- Surf-motor. J. E. Bickel. No. 1,307,893; June 24; v. 263; p. 590.
- Surf or wave motor. W. Gregersen. No. 1,307,095; June 17; v. 263; p. 412.
- Surface condenser. T. C. McBride. No. 1,311,239; July 29; v. 264; p. 725.
- Surface decorating. C. F. Emig. No. 1,323,034; Nov. 25; v. 268; p. 670.
- Surface-working machine. R. R. Miller. No. 1,299,989; Apr. 8; v. 261; p. 338.
- Surface-working machine. R. R. Miller. No. 1,299,990; Apr. 8; v. 261; p. 339.
- Surfaces, Lining for friction. C. H. Gunn. No. 1,298,335; Mar. 25; v. 260; p. 643.
- Surfaces, Machine for operating on. G. W. Meyers. No. 1,320,778; Nov. 4; v. 268; p. 78.
- Surfaces, Machine for smoothing interior. F. H. Rauh. No. 1,325,700; Dec. 23; v. 269; p. 589.
- Surfaces, Manufacturing transparent. O. W. Keil. No. 1,308,426; July 1; v. 264; p. 76.
- Surfacing-machine. J. Babst. No. 1,291,361; Jan. 14; v. 258; p. 345.
- Surfacing-machine. C. McGranahan. No. 1,321,931; Nov. 18; v. 268; p. 411.
- Surfacing-machine for bowling-alleys. L. Engel. No. 1,291,812; Jan. 21; v. 258; p. 483.
- Surfacing material and making same. W. F. McKay. No. 1,318,006; Oct. 7; v. 267; p. 83.
- Surgical apparatus. L. Steiner. No. 1,322,644; Nov. 25; v. 268; p. 597.
- Surgical appliance. C. F. Abernathy. No. 1,302,751; May 6; v. 262; p. 51.
- Surgical appliance. W. Baer. No. 1,298,434; Mar. 25; v. 260; p. 665.
- Surgical appliance. J. D. Cottes. No. 1,321,011; Nov. 4; v. 268; p. 123.
- Surgical appliance. E. H. Galligan. No. 1,323,853; Dec. 2; v. 269; p. 118.
- Surgical appliance. M. N. Hofstetter. No. 1,318,872; Oct. 14; v. 267; p. 292.
- Surgical appliance. E. N. Smart. No. 1,313,344; Aug. 19; v. 265; p. 332.
- Surgical aspirator. J. F. Willette. No. 1,299,081; Apr. 1; v. 261; p. 106.
- Surgical bandage. B. W. Jansen. No. 1,303,903; May 20; v. 262; p. 332.
- Surgical bandage. E. F. Meehan. No. 1,319,299; Oct. 26; v. 267; p. 399.
- Surgical-bandage fastener. J. H. Thomas. No. 1,291,256; Jan. 14; v. 258; p. 320.
- Surgical-bandage fastener. J. H. Thomas. No. 1,313,138; Aug. 12; v. 265; p. 277.
- Surgical device. Light-transmitting. I. J. Smit. No. 1,326,300; Dec. 30; v. 269; p. 737.
- Surgical dressing, Device for forming. V. A. Runnette. No. 1,294,713; Feb. 18; v. 259; p. 471.
- Surgical instrument. G. G. Allard. No. 1,308,728; July 1; v. 264; p. 132.
- Surgical instrument. E. Carpenter. No. 1,314,855; Sept. 2; v. 266; p. 71.
- Surgical instrument. G. Ermold. No. 1,299,928; Apr. 8; v. 261; p. 326.
- Surgical instrument. H. C. Masland. No. 1,308,798; July 8; v. 264; p. 173.
- Surgical instrument. H. Smit. No. 1,293,565; Feb. 4; v. 259; p. 137.
- Surgical instrument. R. H. Wappler. No. 1,303,135; May 6; v. 262; p. 126.
- Surgical instrument for resetting broken bones. H. C. Misland. No. 1,308,799; July 8; v. 264; p. 173.
- Surgical instrument for total hysterectomy. W. L. Bell. No. 1,292,998; Feb. 4; v. 259; p. 7.
- Surgical instruments, Scalpel or handle for. H. Weder, Sr., and C. H. Wolff. No. 1,307,717; June 24; v. 263; p. 558.
- Surgical-needle device, Electrically-operating. E. M. Camp. No. 1,311,494; July 29; v. 264; p. 773.
- Surgical needles, Extensible supporting-stand for multiple members of electrically-operating. E. M. Camp. No. 1,311,495; July 29; v. 264; p. 773.



## Alphabetical list of inventions—Continued.

- Surgical-operation tweezers. C. F. Logeman. No. 1,294,284; Feb. 11; v. 259; p. 336.
- Surgical package. B. K. Hollister. No. 1,309,201; July 8; v. 264; p. 248.
- Surgical snare. C. E. Davis. No. 1,310,982; July 22; v. 264; p. 644.
- Surgical splint. J. R. French. No. 1,295,297; Feb. 25; v. 259; p. 628.
- Surgical splint. R. D. Maddox. No. 1,298,529; Mar. 25; v. 260; p. 686.
- Surgical splint. A. A. Radcliffe. No. 1,326,530; Dec. 30; v. 269; p. 781.
- Surgical swab. J. D. McFarland. No. 1,315,026; Sept. 2; v. 266; p. 101.
- Suspender. W. C. Reinmuth. No. 1,310,249; July 15; v. 264; p. 478.
- Suspender and brace, Combined. A. J. Lobar. No. 1,317,928; Oct. 7; v. 267; p. 51.
- Suspender attachment. E. Bendheim. No. 1,311,853; July 29; v. 264; p. 839.
- Suspender attachment. W. E. Lane. No. 1,306,489; June 10; v. 263; p. 268.
- Suspenders. J. D. Evans. No. 1,305,530; June 3; v. 263; p. 56.
- Suspenders. J. E. Mills. No. 1,313,321; Aug. 19; v. 265; p. 328.
- Suspenders. E. Shanks. No. 1,310,808; July 22; v. 264; p. 613.
- Suspenders. S. B. Shelton. No. 1,290,377; Jan. 7; v. 258; p. 87.
- Suspenders. H. Sugg. No. 1,298,119; Mar. 25; v. 260; p. 597.
- Suspenders. D. F. Wise. No. 1,302,615; May 6; v. 262; p. 25.
- Suspension apparatus. W. L. Walker. No. 1,290,433; Jan. 7; v. 258; p. 101.
- Suspension apparatus, Release. C. J. Coulter. No. 1,324,956; Dec. 16; v. 269; p. 433.
- Suspension device. H. L. Hull and T. N. Lofgren. No. 1,293,448; Feb. 4; v. 259; p. 111.
- Suspension device, Adjustable. T. B. Powers. No. 1,298,562; Mar. 25; v. 260; p. 692.
- Suspensory. A. B. Casselman. No. 1,313,165; Aug. 12; v. 265; p. 282.
- Suspensory. C. H. Guild. No. 1,319,580; Oct. 21; v. 267; p. 453.
- Suspensory. C. F. Rohwer. No. 1,294,709; Feb. 18; v. 259; p. 470.
- Swab-protector and nut-lock. W. V. Turner. No. 1,307,166; June 17; v. 263; p. 425.
- Swaging-machine. T. A. Edison. No. 1,292,277; Jan. 21; v. 258; p. 598.
- Swaging-machine. R. S. Haydock. No. 1,324,150; Dec. 9; v. 269; p. 218.
- Swaging-machine. R. W. Ruth. No. 1,306,232; June 10; v. 263; p. 220.
- Swaging machines, Means for increasing the efficiency of hot-. C. Elsler. No. 1,324,886; Dec. 16; v. 269; p. 420.
- Sweat-band protector. C. K. Snyder. No. 1,304,215; May 20; v. 262; p. 388.
- Sweat-band sticker, marker, and finisher. C. N. Clark. No. 1,296,766; Mar. 11; v. 160; p. 251.
- Sweep-rake. C. R. Davis. No. 1,291,922; Jan. 14; v. 258; p. 244.
- Sweeper. F. L. Collis. No. 1,316,355; Sept. 16; v. 266; p. 369.
- Sweeper. J. McKee. No. 1,314,967; Sept. 2; v. 266; p. 90.
- Sweeper, Motor-driven suction-. E. Hunsicker. No. 1,294,468; Feb. 18; v. 259; p. 415.
- Sweeper, Pneumatic carpet-. V. J. Johnson and E. G. Thoreen. No. 1,303,818; May 13; v. 262; p. 278.
- Sweeper, Street-. A. O. Bishop. No. 1,307,180; June 17; v. 263; p. 427.
- Sweeper, Street-. C. Finkle and I. Cohen. No. 1,308,004; June 24; v. 263; p. 612.
- Sweeper, Street-. B. Frame. No. 1,301,927; Apr. 29; v. 261; p. 831.
- Sweeper, Vacuum-. C. W. Stewart. No. 1,324,416; Dec. 9; v. 269; p. 270.
- Sweeping machine, Street-. A. Bleeker. No. 1,306,877; June 17; v. 263; p. 372.
- Sweetmeats, Machine for wrapping. R. Leumann. No. 1,320,699; Nov. 4; v. 268; p. 63.
- Swimming apparatus. F. Fedzyna. No. 1,320,540; Nov. 4; v. 268; p. 34.
- Swimming apparatus, Pedal-driven. S. d'Aloisio. No. 1,320,190; Oct. 28; v. 267; p. 590.
- Swimming appliance. F. Palmés. No. 1,316,639; Sept. 23; v. 266; p. 471.
- Swimming device. C. F. Becherer. No. 1,326,471; Dec. 30; v. 269; p. 769.
- Swimming device. R. N. Bressler. No. 1,297,648; Mar. 18; v. 260; p. 470.
- Swimming device. E. C. Howard. No. 1,298,344; Mar. 25; v. 260; p. 645.
- Swimming device. E. Synggard. No. 1,293,490; Feb. 4; v. 259; p. 120.
- Swimming device. F. L. Szafranski. No. 1,304,919; May 27; v. 262; p. 561.
- Swimming-instruction machine. A. E. Watts. No. 1,316,524; Sept. 16; v. 266; p. 402.
- Swimming-machine. A. A. Moore. No. 1,299,000; Apr. 1; v. 261; p. 89.
- Swing. J. B. Dunlap. No. 1,307,774; June 24; v. 263; p. 568.
- Swing. J. A. Eberle. No. 1,304,951; May 27; v. 262; p. 567.
- Swing. U. Hebert. No. 1,319,582; Oct. 21; v. 267; p. 454.
- Swing. J. H. Skeel. No. 1,320,714; Nov. 4; v. 268; p. 66.
- Swing. J. C. Wilson. No. 1,300,680; Apr. 15; v. 261; p. 513.
- Swing. P. J. Wreisner. No. 1,308,568; July 1; v. 264; p. 102.
- Swing-chair, Folding. A. F. Bally. No. 1,303,012; May 6; v. 262; p. 102.
- Swing, Circular. M. Johnson. No. 1,320,235; Oct. 28; v. 267; p. 598.
- Swing-joint. E. G. Loomis. No. 1,297,370; Mar. 18; v. 260; p. 412.
- Swing, Rock-a-bye. F. Albach. No. 1,314,495; Sept. 2; v. 266; p. 3.
- Swings, chairs, &c., Hanger for porch and other. E. P. Elzey. No. 1,325,358; Dec. 16; v. 269; p. 508.
- Swinging joint, Fluid-conveying. H. C. Hoting. No. 1,324,867; Dec. 16; v. 269; p. 435.
- Switch. See—
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|-------------------------------|-----------------------------------|
| Air-break switch.             | Lamp-socket switch.               |
| Automatic switch.             | Lighting-switch.                  |
| Automatic cut-out switch.     | Line-switch.                      |
| Automobile-starting-switch    | Lock-switch.                      |
| Car-switch.                   | Locking-switch.                   |
| Car-actuated switch.          | Magnetic starting-switch.         |
| Centrifugal switch.           | Magnetically - controlled switch. |
| Circuit-controlling switch.   | Magneto-cut-off switch.           |
| Coin-controlled switch.       | Motor-switch.                     |
| Combination-switch.           | Multiple switch.                  |
| Connector-switch.             | Multivalve overload-switch.       |
| Cross-bar line-switch.        | Non-binding switch.               |
| Electric switch.              | Permutation electric switch.      |
| Electric brazing-switch.      | Pneumatic switch.                 |
| Electric-circuit switch.      | Polarity-reversing switch.        |
| Electric controlling-switch.  | Pole-changing switch.             |
| Electric door-switch.         | Portable turnout switch.          |
| Electric-fixture switch.      | Power-operated switch.            |
| Electric motor-switch.        | Push-button switch.               |
| Electric multiple switch.     | Pyrometer-switch.                 |
| Electric pull-switch.         | Quick-break switch.               |
| Electric-range switch.        | Railway-switch.                   |
| Electric time-switch.         | Safety-switch.                    |
| Electrical switch.            | Safety limit-switch.              |
| Electrically-operated switch. | Selective switch.                 |
| Electromagnetic switch.       | Service-switch.                   |
| Fire-alarm electric switch.   | Snap-switch.                      |
| Float-controlled switch.      | Starting-switch.                  |
| Float-operated switch.        | Starting-switch.                  |
| Folding table.                | Telephone-switch.                 |
| High-potential switch.        | Time-switch.                      |
| High-tension locking-switch.  | Time-switch.                      |
| Ignition and lighting switch. | Trip-switch.                      |
| Inclosed switch.              | Trunk-selecting switch.           |
| Knife-blade switch.           |                                   |
- Switch. F. Buchanan. No. 1,304,655; May 27; v. 262; p. 512.
- Switch. W. W. Dean. No. 1,321,987; Nov. 18; v. 268; p. 421.
- Switch. O. P. Hipple. No. 1,323,275; Dec. 2; v. 269; p. 10.
- Switch. S. G. Langley. No. 1,323,194; Nov. 25; v. 268; p. 701.
- Switch. W. V. Mueller. No. 1,297,390; Mar. 18; v. 260; p. 417.
- Switch. C. M. Nye. No. 1,310,430; July 22; v. 264; p. 543.
- Switch. H. D. Rahling. No. 1,322,265; Nov. 18; v. 268; p. 473.
- Switch. B. K. Read. No. 1,302,089; Apr. 29; v. 261; p. 861.
- Switch. T. E. Smith. No. 1,300,665; Apr. 15; v. 261; p. 510.
- Switch. H. A. Steen. No. 1,309,822; July 15; v. 264; p. 400.
- Switch. F. Stiman. No. 1,325,420; Dec. 16; v. 269; p. 519.
- Switch-actuating mechanism. C. H. Mitchell. No. 1,325,797; Dec. 23; v. 269; p. 607.
- Switch and fuse, Combined. A. J. Pelletier and F. Bellisle. No. 1,321,390; Nov. 11; v. 268; p. 259.
- Switch and signal indication. H. B. Taylor. No. 1,322,270; Nov. 18; v. 268; p. 474.
- Switch, Automatic reversing-. H. K. Sandell. No. 1,305,013; May 27; v. 262; p. 579.
- Switch board or panel. H. F. Krantz. No. 1,320,154; Oct. 28; v. 267; p. 584.
- Switch-box. W. C. Brinton, Jr. No. 1,321,806; Nov. 18; v. 268; p. 388.
- Switch-box. A. Fernandez. No. 1,304,467; May 20; v. 262; p. 438.

- Switch-box. C. A. Keller. No. 1,296,811; Mar. 11; v. 260; p. 260.
- Switch, Combination-. L. Kovacs. No. 1,310,354; July 15; v. 264; p. 497.
- Switch construction. H. C. Stiff. No. 1,299,806; Apr. 8; v. 261; p. 300.
- Switch-control circuits, Automatic. S. B. Williams, Jr. No. 1,312,884; Aug. 12; v. 265; p. 227.
- Switch-control system. R. L. Quass. No. 1,293,195; Feb. 4; v. 259; p. 51.
- Switch control, Self-starter-. R. M. Culver. No. 1,310,690; No. 1,310,690; July 22; v. 264; p. 590.
- Switch-disk. S. S. Allwill. No. 1,325,682; Dec. 23; v. 269; p. 586.
- Switch for electric firing devices. J. W. Powers. No. 1,302,968; May 6; v. 262; p. 93.
- Switch for electrically-operated measuring apparatus, Control-. O. Anderson. No. 1,292,221; Jan. 21; v. 258; p. 585.
- Switch for motor-vehicle signaling devices. P. W. Vanderhoff. No. 1,303,423; May 13; v. 262; p. 205.
- Switch-frog, Swing-rail. C. E. Ennis. No. 1,309,023; July 8; v. 264; p. 216.
- Switch-frog, Swing-rail. G. L. Walker. No. 1,309,002; July 8; v. 264; p. 211.
- Switch-handle. C. D. Platt. No. 1,305,158; May 27; v. 262; p. 606.
- Switch-handle. R. Ratcliffe. No. 1,321,333; Nov. 11; v. 268; p. 248.
- Switch-handles, Lock for. A. K. Sutherland. No. 1,305,178; May 27; v. 262; p. 610.
- Switch-indicator, Luminous. E. O'Hara. No. 1,296,311; Mar. 4; v. 260; p. 112.
- Switch-lock. M. Grunnet. No. 1,312,977; Aug. 12; v. 265; p. 245.
- Switch-lock. K. Knudson. No. 1,309,361; July 8; v. 264; p. 278.
- Switch-lock attachment. O. E. Sheidler. No. 1,292,104; Jan. 21; v. 258; p. 557.
- Switch-lock, Safety. N. J. Beckner. No. 1,316,013; Sept. 16; v. 266; p. 305.
- Switch-locking device. W. C. McCormick. No. 1,297,200; Mar. 11; v. 260; p. 347.
- Switch-locking mechanism, Multiple-. W. J. Newton. No. 1,317,382; Sept. 30; v. 266; p. 646.
- Switch-machine. W. K. Howe, W. S. Henry, and F. N. Hall. No. 1,307,200; June 17; v. 263; p. 431.
- Switch mechanism. J. H. Richards. No. 1,325,654; Dec. 23; v. 269; p. 581.
- Switch mechanism. J. H. Richards. No. 1,325,655; Dec. 23; v. 269; p. 581.
- Switch mechanism, Safety-. C. Klink. No. 1,324,903; Dec. 16; v. 269; p. 423.
- Switch mechanism, Selective interlocking. G. Cameron. No. 1,324,640; Dec. 9; v. 269; p. 313.
- Switch mechanism, Track-. J. A. Weber. No. 1,323,510; Dec. 2; v. 269; p. 54.
- Switch mechanism, Electric-. W. Richmond. No. 1,310,135; July 15; v. 264; p. 457.
- Switch member, Electric. C. D. Platt. (Reissue.) No. 1,468; July 15; v. 264; p. 507.
- Switch member, Electric. C. D. Platt. (Reissue.) No. 1,469; July 15; v. 264; p. 507.
- Switch-movement. S. Buchsbaum. No. 1,295,966; Mar. 4; v. 260; p. 34.
- Switch operating and locking mechanism. J. W. Walls. No. 1,306,567; June 10; v. 263; p. 282.
- Switch-operating device. R. Laurin. No. 1,323,700; Dec. 2; v. 269; p. 89.
- Switch-operating mechanism. A. H. Adams. No. 1,296,604; Mar. 11; v. 260; p. 213.
- Switch-operating mechanism. W. J. Fox. No. 1,295,149; Feb. 25; v. 259; p. 595.
- Switch-operating mechanism. W. M. Holmberg. No. 1,300,968; Apr. 15; v. 261; p. 574.
- Switch-operating mechanism. O. H. and A. F. Pleper. No. 1,306,770; June 17; v. 263; p. 352.
- Switch-operating mechanism. O. Spencer. No. 1,312,813; Aug. 12; v. 265; p. 213.
- Switch operator, Electric-light-. E. H. Shute. No. 1,301,183; Apr. 22; v. 261; p. 657.
- Switch or outlet box. D. H. Hayden. No. 1,326,498; Dec. 30; v. 269; p. 774.
- Switch-panel. H. F. Krantz. No. 1,306,342; June 10; v. 263; p. 241.
- Switch-points, Apparatus for adjusting. W. F. Bossert. No. 1,322,404; Nov. 18; v. 268; p. 500.
- Switch-rod. A. R. Cline. No. 1,303,165; May 6; v. 262; p. 131.
- Switch-signal. J. Craigmyle. No. 1,303,170; May 6; v. 262; p. 132.
- Switch-stand. S. W. Hayes. No. 1,312,691; Aug. 12; v. 265; p. 189.
- Switch-stand. P. Kimack. No. 1,318,767; Oct. 14; v. 267; p. 272.
- Switch-stand. S. Riddel. No. 1,321,245; Nov. 11; v. 268; p. 231.
- Switch-stand. E. M. Robinson. No. 1,325,754; Dec. 23; v. 269; p. 598.
- Switch-stand. N. E. Salsich. No. 1,303,967; May 20; v. 262; p. 343.
- Switch-stand crank, Reversible and adjustable. F. C. Anderson. No. 1,320,522; Nov. 4; v. 268; p. 31.
- Switch-stand lock. J. J. Dillon. No. 1,306,105; June 10; v. 263; p. 195.
- Switch-throw. C. C. Korns. No. 1,313,995; Aug. 26; v. 265; p. 489.
- Switch-throwing device. A. E. Guise. No. 1,316,443; Sept. 16; v. 266; p. 385.
- Switch-throwing device. E. and J. L. Reddix. No. 1,325,170; Dec. 16; v. 269; p. 473.
- Switch-throwing device. J. D. Tarasoff. No. 1,320,184; Oct. 28; v. 267; p. 589.
- Switch unit, Entrance. C. D. Platt. No. 1,306,191; June 10; v. 263; p. 211.
- Switches, Actuating device for swing-rail. G. L. Walker. No. 1,309,003; July 8; v. 264; p. 211.
- Switches, Earthing device for electric oil-break. F. Coates and J. Mirrey. No. 1,326,023; Dec. 23; v. 269; p. 650.
- Switches, Interconnecting lines by electromechanically-controlled. F. Aldendorff. No. 1,321,795; Nov. 11; v. 268; p. 335.
- Switches, Motor-driven mechanism for self-acting. C. S. Eppley. No. 1,291,451; Jan. 14; v. 258; p. 367.
- Switchboard. H. F. Krantz. (Reissue.) No. 1,4631; Apr. 8; v. 261; p. 393.
- Switchboard. H. F. Krantz. No. 1,305,374; June 3; v. 263; p. 27.
- Switchboard apparatus. B. G. Lamme. No. 1,305,126; May 27; v. 262; p. 600.
- Switchboard mechanism. H. Krantz. No. 1,305,376; June 3; v. 263; p. 28.
- Switchboard, Dead-face. A. N. Rogers and W. F. O'Neill. No. 1,297,912; Mar. 18; v. 260; p. 528.
- Switchboard, Electric. H. F. Krantz. No. 1,324,910; Dec. 16; v. 269; p. 425.
- Switchboard, Multiple-unit safety-. H. F. Krantz. No. 1,324,161; Dec. 9; v. 269; p. 221.
- Switchboard, Safety-. H. F. Krantz. No. 1,306,344; June 10; v. 263; p. 242.
- Switching apparatus. E. W. Adams. No. 1,309,231; July 8; v. 264; p. 254.
- Switching device. H. G. MacDonald. No. 1,320,078; Oct. 28; v. 267; p. 570.
- Switching means. W. F. K. Gorenskowski. No. 1,302,537; May 6; v. 262; p. 11.
- Switching mechanism, Electric. W. S. Mayer. No. 1,322,922; Nov. 25; v. 268; p. 648.
- Switching-socket. G. C. Knauff. No. 1,298,354; Mar. 25; v. 260; p. 647.
- Switching-socket. E. S. Preston. No. 1,323,200; Nov. 25; v. 268; p. 702.
- Swivel. T. J. Dodge. No. 1,313,372; Aug. 19; v. 265; p. 337.
- Swivel connection. J. S. Lawson. No. 1,305,909; June 3; v. 263; p. 128.
- Swivel connection. S. Sanne-Jacobsen. No. 1,323,320; Dec. 2; v. 269; p. 18.
- Swivel, Hydraulic. W. G. Vreeland. No. 1,296,573; Mar. 4; v. 260; p. 169.
- Swivel-joint. W. N. Best. No. 1,300,109; Apr. 8; v. 261; p. 365.
- Swivel-joint. D. O'Brien. No. 1,303,714; May 13; v. 262; p. 258.
- Swivel joint or coupling for pipes. H. V. Cornell. No. 1,302,314; Apr. 29; v. 261; p. 904.
- Swivels, Making. W. R. Clarkson. No. 1,316,877; Sept. 23; v. 266; p. 515.
- Swiveled and tilting chair. O. O. Krabol. No. 1,297,364; Mar. 18; v. 260; p. 411.
- Synchronizer. F. Heath. No. 1,292,315; Jan. 21; v. 258; p. 607.
- Synchronizing. O. E. Kellum. No. 1,292,798; Jan. 28; v. 258; p. 743.
- Synchronizing apparatus. L. O. Kozar. No. 1,314,081; Aug. 26; v. 265; p. 505.
- Synchronizing mechanism. C. J. Coleman. No. 1,290,094; Jan. 7; v. 258; p. 19.
- Synchronizing rotary devices, Means for. G. M. Yorke and G. R. Benjamin. No. 1,298,622; Mar. 25; v. 260; p. 704.
- Synchronizing the operations of moving parts, Mechanism for. H. Bockisch. No. 1,324,779; Dec. 16; v. 269; p. 401.
- Synchronous machines, Apparatus for starting. E. Rosenberg. No. 1,318,696; Oct. 14; v. 267; p. 259.
- Syringe. F. R. Arnett. No. 1,317,851; Oct. 7; v. 267; p. 37.
- Syringe. A. Bandman. No. 1,293,667; Feb. 11; v. 259; p. 191.
- Syringe. H. S. Jones. No. 1,306,184; June 10; v. 263; p. 210.
- Syringe. C. D. Livingston. No. 1,291,570; Jan. 14; v. 258; p. 394.
- Syringe. O. O. R. Schwidetzky. No. 1,315,164; Sept. 2; v. 266; p. 127.
- Syringe. G. J. L. Vermont. No. 1,317,839; Oct. 7; v. 267; p. 34.
- Syringe. F. Wackenhuth. No. 1,315,885; Sept. 9; v. 266; p. 267.
- Syringe and subcutaneous needle, Pressure-. J. A. E. Sellar. No. 1,308,919; July 8; v. 264; p. 195.



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- Syringe and subcutaneous needle, Pressure-. J. A. E. Sel-  
lar. No. 1,316,394; Sept. 16; v. 266; p. 376.
- Syringe-applicator. F. L. Platt, G. H. Hein, and R. R.  
Impey. No. 1,321,550; Nov. 11; v. 268; p. 289.
- Syringe, Automatic injection-. R. Di Falco and J. De Paul.  
No. 1,320,536; Nov. 4; v. 268; p. 34.
- Syringe, Folding water-bag. G. S. Andrus. No. 1,294,219;  
Feb. 11; v. 259; p. 322.
- Syringe for injecting cement in teeth. W. R. Howard.  
No. 1,306,816; June 17; v. 263; p. 361.
- Syringe, Force-delivery. G. C. Kennedy. No. 1,308,954;  
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- Syringe, Hydrometer-. R. M. Pierson. No. 1,296,694;  
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- Syringe, Hypodermic. G. G. Powers. No. 1,317,314;  
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- Syringe, Hypodermic. G. G. Powers. No. 1,319,243; Oct.  
21; v. 267; p. 389.
- Syringe needle and base, Hypodermic-. F. L. Platt, G.  
N. Hein, and R. R. Impey. No. 1,318,586; Oct. 14; v.  
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- Syringe, Non-leakable recharging-. W. J. Covell. No.  
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- Syringe, Uterine. T. Inaizumi. No. 1,304,054; May 20;  
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- Syringe, Vaginal. F. W. Stanton. No. 1,320,286; Oct.  
28; v. 267; p. 608.
- Syringe, Valveless. F. S. Dickinson. No. 1,307,245;  
June 17; v. 263; p. 439.
- Syringes or the like, Cap for fountain-. H. P. Kraft and  
M. C. Schweinert. No. 1,318,885; Oct. 14; v. 267;  
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- Syringes, Sterilizing apparatus for hypodermic. H. R.  
Franklin. No. 1,307,249; June 17; v. 263; p. 440.
- Syrup and feed, Producing. H. C. Gore. No. 1,310,012;  
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- Syrup-can. W. S. Wiley. No. 1,323,664; Dec. 2; v. 269;  
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- Table. *See*—
- |  |                                   |
|--|-----------------------------------|
| Adjustable table.                          | Embaiming-table.                  |
| Auto turn-table.                           | Extension-table.                  |
| Automobile turn-table.                     | Finger-print table.               |
| Bed-table.                                 | Folding table.                    |
| Bed-supported table.                       | Fruit-sorting table.              |
| Bedside-table.                             | Game-table.                       |
| Beef-fattening table.                      | Hearse-table.                     |
| Billiard and pool table.                   | Invalid-table.                    |
| Bracket-table.                             | Ironing-table.                    |
| Bracket bed-table.                         | Laboratory-table.                 |
| Butchering and scalding<br>table.          | Library-table.                    |
| Camp-table.                                | Ore-concentrating table.          |
| Card-table.                                | Paper-table.                      |
| Caster-table.                              | Paper-hanger's pasting-<br>table. |
| Chiropractic table.                        | Pool-table.                       |
| Cigar-wrapper cutter and<br>rolling table. | Power-table.                      |
| Circular-saw table.                        | Railway transfer-table.           |
| Collapsible table.                         | Revolving and folding<br>table.   |
| Combination-table.                         | Rolling-mill, &c., table.         |
| Combined table.                            | Service-table.                    |
| Computing-table.                           | Sewing-table.                     |
| Concentrating-table.                       | Spinal-treatment table.           |
| Confectioner's table.                      | Treating-table.                   |
| Corn-husking table.                        | Turn-table.                       |
| Desk-table.                                | Tilting table.                    |
| Drain-table.                               | Time-table.                       |
| Drawing-table.                             |                                   |
- Table. J. F. Arnold. No. 1,308,652; July 1; v. 264;  
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- Table. J. F. Bernik. No. 1,325,390; Dec. 16; v. 269;  
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- Table. H. J. Bryant. No. 1,319,753; Oct. 28; v. 267;  
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- Table. H. A. Cordray. No. 1,295,438; Feb. 25; v. 259;  
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- Table. J. A. Kieffer. No. 1,305,809; June 3; v. 263; p.  
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- Table. J. W. McElhinny. No. 1,324,259; Dec. 9; v.  
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- Table. E. Nielsen. No. 1,300,759; Apr. 15; v. 261;  
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- Table. H. Shparago. No. 1,315,344; Sept. 9; v. 266;  
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- Table and bed, Combined. J. Marianych. No. 1,305,661;  
June 3; v. 263; p. 82.
- Table and case therefor convertible into benches, Foldable.  
G. Shetokin. No. 1,308,727; July 1; v. 264; p. 132.
- Table and ironing-board, Disappearing. H. P. Dixon. No.  
1,315,913; Sept. 9; v. 266; p. 272.
- Table and seat, Folding camp. G. R. Stine. No. 1,296,336;  
Mar. 4; v. 260; p. 118.
- Table article. M. Thomson. No. 1,316,314; Sept. 16; v.  
266; p. 361.
- Table-article support. F. Kessel. No. 1,292,480; Jan.  
28; v. 258; p. 667.
- Table, bed, and settle, Convertible. J. O. Fowler. No.  
1,308,523; July 1; v. 264; p. 94.
- Table-chair, Folding. E. L. Purcell. No. 1,304,368;  
May 20; v. 262; p. 419.
- Table connector, Dining-. J. F. Gilchrist. No. 1,309,406;  
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- Table cover, Card-. A. Kunath. No. 1,326,746; Dec. 30;  
v. 269; p. 821.
- Table for coding, decoding, and checking communications.  
C. Farquhar. No. 1,318,366; Oct. 14; v. 267; p. 196.
- Table for molding-machines, Drawing-. A. D. Ziebarth and  
A. V. Magnuson. No. 1,316,261; Sept. 16; v. 266; p.  
351.
- Table-fork knife attachment. F. Chandler. No. 1,300,119;  
Apr. 8; v. 261; p. 368.
- Table-frame lock-joint. J. Forster. No. 1,320,611; Nov.  
4; v. 268; p. 48.
- Table-leaf combination. L. W. Pennock. No. 1,307,145;  
June 17; v. 263; p. 421.
- Table-leg-attaching device. G. W. Stoll. No. 1,297,415;  
Mar. 18; v. 260; p. 422.
- Table-leg-securing device. G. W. Stoll and G. H. Drech-  
sel. No. 1,301,617; Apr. 22; v. 261; p. 739.
- Table-slide. F. C. Dabney. No. 1,299,687; Apr. 8; v.  
261; p. 272.
- Table, Mark-up. B. A. Clepp. No. 1,305,062; May 27; v.  
262; p. 588.
- Table opening and closing device. S. A. Clark. No.  
1,307,808; June 24; v. 263; p. 575.
- Table slide, Extension-. A. P. Schloerb. N. 1,305,310;  
June 3; v. 263; p. 16.
- Table, stepladder, and ironing-board, Combination. D. H.  
Strayer. No. 1,324,939; Dec. 16; v. 269; p. 430.
- Table utensil, Sanitary. A. W. Butterfield. No. 1,310,903;  
July 22; v. 264; p. 629.
- Tables and the like, Disappearing edge strip for drafting-.  
J. A. Hagerstrom. No. 1,314,060; Aug. 26; v. 265;  
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- Tables, Locking means for extension-. J. Mohr. No.  
1,317,174; Sept. 30; v. 266; p. 607.
- Tablet, directory, &c. J. Scheitler. No. 1,326,694; Dec.  
30; v. 269; p. 811.
- Tablet-separator. M. E. Selle and D. A. Driscoll. No.  
1,320,802; Nov. 4; v. 268; p. 83.
- Tablet-stacking machine. H. P. Forté. No. 1,291,821;  
Jan. 21; v. 258; p. 484.
- Tabulating device. J. E. Wright. No. 1,296,727; Mar.  
11; v. 260; p. 240.
- Tabulating-machine. C. D. Lake. No. 1,307,740; June  
24; v. 263; p. 562.
- Tabulating-machine, Automatic. R. N. Williams. No.  
1,302,616; May 6; v. 262; p. 25.
- Tabulating mechanism. O. Thieme. No. 1,294,847; Feb.  
18; v. 259; p. 503.
- Tabulating systems, Registering and recording apparatus  
for. H. Hollerith. No. 1,295,167; Feb. 25; v. 259; p.  
599.
- Tachimeter. F. W. G. Bruhn. No. 1,306,046; June 10;  
v. 263; p. 184.
- Tachometer and revolution-counter, Combined. C. Car-  
son. No. 1,297,793; Mar. 18; v. 260; p. 503.
- Tachometer drive connection. J. Berg. No. 1,298,646;  
Apr. 1; v. 261; p. 5.
- Tack or nail. C. K. Hill. No. 1,325,721; Dec. 23; v. 269;  
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- Tack puller, Lasting. J. H. Ricker. No. 1,314,702; Sept.  
2; v. 266; p. 44.
- Tacking-machine. C. F. Warnke. No. 1,310,590; July  
22; v. 264; p. 572.
- Taffy or the like cutting-off machine. H. Gillar and  
S. W. Crouse. No. 1,296,647; Mar. 11; v. 260; p. 222.
- Tag-affixing machine. W. and F. L. Borchert. No.  
1,296,749; Mar. 11; v. 260; p. 246.
- Tag and checking device. G. E. Blaylock. No. 1,304,150;  
May 20; v. 262; p. 376.
- Tag and mailing-envelope, Combination shipping-. A. A.  
Stute. No. 1,320,349; Oct. 28; v. 267; p. 620.
- Tag, Ear-. H. Spurling. No. 1,320,426; Nov. 4; v. 268;  
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- Tag-fastener. M. B. Behrman. No. 1,308,771; July 8;  
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- Tag-fastening device, Automobile-license-. J. F. Parker.  
No. 1,310,769; July 22; v. 264; p. 605.
- Tag-fastening means. D. D. Cutting. No. 1,305,693;  
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- Tag-holder. S. J. Agnew. No. 1,320,957; Nov. 4; v. 268;  
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- Tag, Identification-. C. M. Hahn. No. 1,314,745; Sept. 2;  
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- Tag, Identification-. G. T. Spaulding. No. 1,312,215;  
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- Tag, Indicating-. F. G. Underwood. No. 1,304,417; May  
20; v. 262; p. 428.
- Tag or check. C. L. Shelton. No. 1,324,568; Dec. 9;  
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- Tag, Sales-. R. L. and C. F. H. Mills and A. D. Carrel.  
No. 1,309,904; July 15; v. 264; p. 416.
- Tag, Sealing-. F. Evans. No. 1,313,888; Aug. 26; v.  
265; p. 468.
- Tag, Shipping-. A. J. Lyons. No. 1,306,492; June 10;  
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- Tag-stringing device. O. C. Stein. No. 1,325,592; Dec.  
23; v. 269; p. 569.
- Tag, Tubular. M. H. Loughbridge. No. 1,298,981; Apr. 1;  
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- Tagging means, Price-. C. Saunders. No. 1,297,405;  
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- Tail holder, Animal-. J. R. Elliff. No. 1,320,213; Oct. 28; v. 267; p. 594.
- Tailor's steaming-iron. J. J. Seldin. No. 1,313,124; Aug. 12; v. 265; p. 275.
- Take-up mechanism. S. J. La Montaine and C. A. Money. No. 1,298,969; Apr. 1; v. 261; p. 82.
- Take-up reel, Automatic compensated. B. A. Proctor. No. 1,298,395; Mar. 25; v. 260; p. 655.
- Talking and picture-exhibiting machine, Combined. J. L. Boyle. No. 1,313,214; Aug. 12; v. 265; p. 292.
- Talking-machine. F. L. Capps. No. 1,291,398; Jan. 14; v. 258; p. 354.
- Talking-machine. W. H. Daily. No. 1,294,626; Feb. 18; v. 259; p. 451.
- Talking-machine. W. H. Davis and F. E. Joss. No. 1,312,959; Aug. 12; v. 265; p. 241.
- Talking-machine. E. A. Eschinger. No. 1,295,460; Feb. 25; v. 259; p. 666.
- Talking-machine. E. A. Eschinger. No. 1,301,786; Apr. 22; v. 261; p. 774.
- Talking-machine. E. A. Eschinger. No. 1,301,787; Apr. 22; v. 261; p. 775.
- Talking-machine. L. S. Holmboe. No. 1,312,250; Aug. 5; v. 265; p. 74.
- Talking-machine. F. E. Joss. No. 1,318,083; Oct. 7; v. 267; p. 80.
- Talking-machine. M. Krauss. No. 1,291,027; Jan. 14; v. 258; p. 268.
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- Talking-machine. B. G. Royal. No. 1,305,745; June 3; v. 263; p. 97.
- Talking-machine. L. Y. Squibb. No. 1,323,726; Dec. 2; v. 269; p. 94.
- Talking-machine. A. J. Swing. No. 1,304,404; May 20; v. 262; p. 426.
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- Talking-machine. J. Wolff. No. 1,321,178; Nov. 11; v. 268; p. 218.
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- Talking-machine and piano, Combined. J. H. Dickinson. No. 1,314,573; Sept. 2; v. 266; p. 20.
- Talking-machine and stereopticon, Combined. J. L. Boyle. No. 1,313,190; Aug. 12; v. 265; p. 287.
- Talking-machine attachment. E. R. Rundell, A. E. Ogden, and F. S. Ellett. No. 1,303,502; May 13; v. 262; p. 220.
- Talking-machine, Automatic. J. L. C. Rorison. No. 1,321,852; Nov. 18; v. 268; p. 396.
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- Talking-machine cabinet. P. Farb. No. 1,321,194; Nov. 11; v. 268; p. 221.
- Talking-machine cabinet. J. Herzog. No. 1,308,420; July 1; v. 264; p. 75.
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- Talking-machine diaphragm. F. V. Van de Myer. No. 1,291,663; Jan. 14; v. 258; p. 417.
- Talking-machine illuminating device. P. Farb. No. 1,321,196; Nov. 11; v. 268; p. 221.
- Talking-machine needle-arm. W. L. Eckhardt. No. 1,296,638; Mar. 11; v. 260; p. 220.
- Talking-machine records, Container for. F. Malocsay. No. 1,321,222; Nov. 11; v. 268; p. 226.
- Talking-machine reproducer. H. T. Crapo. No. 1,302,140; Apr. 29; v. 261; p. 871.
- Talking-machine, Self-operating. G. W. Woodward. No. 1,306,241; June 10; v. 263; p. 223.
- Talking-machine sound-box. J. F. Smith. No. 1,302,479; Apr. 29; v. 261; p. 936.
- Talking-machine start and stop mechanism. J. B. Cherney. No. 1,301,905; Apr. 29; v. 261; p. 827.
- Talking-machine stop. A. F. Zega. No. 1,292,214; Jan. 21; v. 258; p. 584.
- Talking-machine stop mechanism. L. Y. Squibb. No. 1,303,125; May 6; v. 262; p. 123.
- Talking-machine stylus-holder. J. Babls, Jr. No. 1,290,044; Jan. 7; v. 258; p. 7.
- Talking-machine tone-arm. J. F. Smith. No. 1,302,478; Apr. 29; v. 261; p. 936.
- Talking-machine tone-control device. W. H. Davis and F. E. Joss. No. 1,316,536; Sept. 16; v. 266; p. 404.
- Talking-machine tone-control device. W. H. Davis and F. E. Joss. No. 1,316,537; Sept. 16; v. 266; p. 404.
- Talking-machines, Automatic illuminating device for. L. Nahemow. No. 1,319,354; Oct. 21; v. 267; p. 410.
- Talking-machines, Combined tone-arm and stop device for. J. T. Sibley. No. 1,313,342; Aug. 19; v. 265; p. 331.
- Talking-machines, Controlling mechanism for. E. S. Marsh. No. 1,307,014; June 17; v. 263; p. 398.
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- Talking-machines, Horn for. A. Pogonowski. No. 1,314,980; Sept. 2; v. 266; p. 93.
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- Talking-machines, Needle for. C. F. Dilks. No. 1,317,671; Sept. 30; v. 266; p. 702.
- Talking-machines, Needle-holder for. F. and T. P. Beaudouin. No. 1,322,228; Nov. 18; v. 268; p. 477.
- Talking-machines, Record-ejector for. N. B. Riddle. No. 1,309,656; July 15; v. 264; p. 371.
- Talking-machines, Recorder and reproducer for. L. L. Leeds. No. 1,296,975; Mar. 11; v. 260; p. 298.
- Talking-machines, Repeating device for. J. B. O'Rear. No. 1,318,104; Oct. 7; vol. 267; p. 84.
- Talking-machines, Reproducer for. A. H. Holmes. No. 1,310,753; July 22; v. 264; p. 602.
- Talking-machines, Reproducer for. A. A. Huseby. No. 1,308,358; July 1; v. 264; p. 64.
- Talking-machines, Resonance-chamber for. R. E. Weber. No. 1,319,739; Oct. 28; v. 267; p. 506.
- Talking-machines, Sound-control mechanism for. C. J. Rousfield. No. 1,295,083; Feb. 18; v. 259; p. 556.
- Talking-machines, Speed-regulator for. J. Wolff. No. 1,321,179; Nov. 11; v. 268; p. 218.
- Talking-machines, Tone-arm adjustment for. A. A. Huseby. No. 1,318,153; Oct. 7; v. 267; p. 94.
- Talking-machines, Turn-table for. J. A. Davis. No. 1,298,019; Mar. 25; v. 260; p. 576.
- Talking-machines, Winding device for spring-motors of. J. W. Jones. No. 1,312,181; Aug. 5; v. 265; p. 62.
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  - Ash-conveyer-system tank.
  - Automobile radiator-tank.
  - Cleaning-tank.
  - Closet flush-tank.
  - Compartment-tank.
  - Compressing-tank.
  - Duplex flush-tank.
  - Embalming table and tank.
  - Fluid-supply tank.
  - Flush-tank.
  - Fomentation-tank.
  - Fuel-tank.
  - Gasolene-tank.
  - Glass-drawing tank.
  - Liquid-fuel tank.
  - Measuring-tank.
  - Oil-tank.
  - Oil wagon-tank.
  - Photographic-film-developing tank.
  - Radiator-core-dipping tank.
  - Settling-tank.
  - Settling and separating tank.
  - Sheet-metal tank.
  - Siphon flush-tank.
  - Sprinkler-system tank.
  - Storage-tank.
  - Submarine-testing tank.
  - Toy tank.
  - Toy war-tank.
  - Vacuum-tank.
  - Water-tank.
  - Water-closet flush-tank.
  - Wood tank.
- Tank. S. P. Thacher. No. 1,297,305; Mar. 11; v. 260; p. 370.
- Tank. C. A. Xardell. No. 1,310,517; July 22; v. 264; p. 558.
- Tank-bottoms, Machine for manufacturing. J. A. Anderson. No. 1,311,306; July 29; v. 264; p. 737.
- Tank-car heater. E. A. Schreiber. No. 1,306,837; June 17; v. 263; p. 365.
- Tank connection. W. M. Stewart. No. 1,319,124; Oct. 21; v. 267; p. 365.
- Tank-filler. E. C. Bowers. No. 1,324,995; Dec. 16; v. 269; p. 440.
- Tank fillers, Dust-proof cap for liquid-. C. R. Lambert. No. 1,320,559; Nov. 4; v. 268; p. 38.
- Tank for ash-conveyer systems. L. A. Griffin. No. 1,300,605; Apr. 15; v. 261; p. 497.
- Tank for holding corrosive substances. L. H. Underwood. No. 1,303,421; May 13; v. 262; p. 205.
- Tank-heater. A. L. Kaiser. No. 1,322,024; Nov. 18; v. 268; p. 428.
- Tank-heater. G. C. Kremer. No. 1,323,070; Nov. 25; v. 268; p. 676.
- Tank-heater. A. E. Ostrander. No. 1,292,365; Jan. 21; v. 258; p. 619.
- Tank-heater. A. Otto, Jr. No. 1,309,101; July 8; v. 264; p. 230.
- Tank-heater. W. Tinker. No. 1,322,973; Nov. 25; v. 268; p. 658.
- Tank-heater joint. W. E. Schaeffer. No. 1,307,706; June 24; v. 263; p. 556.
- Tank-indicator circuit-closer. M. C. Sprangers. No. 1,323,113; Nov. 25; v. 268; p. 684.
- Tank-registering device. H. J. Benjamin. No. 1,300,327; Apr. 15; v. 261; p. 439.
- Tank-regulator. W. M. Fulton. No. 1,300,717; Apr. 15; v. 261; p. 521.
- Tank-sediment remover, Plater's-. A. H. Wicks. No. 1,322,383; Nov. 18; v. 268; p. 496.
- Tank water-heater. G. F. Schwartz. No. 1,295,610; Feb. 25; v. 259; p. 702.
- Tanks, Adjustable support for glue-. M. B. Diskin. No. 1,306,754; June 17; v. 263; p. 350.
- Tanks, Closure for. M. A. Lynch and J. P. F. White. No. 1,308,794; July 8; v. 264; p. 174.



*Alphabetical list of inventions—Continued.*

- Tanks, Electric-volume indicator for. J. A. Vosika. No. 1,316,341; Sept. 16; v. 266; p. 366.
- Tanks, Fire-extinguishing inlet for fuel. S. H. Brooks. No. 1,307,614; June 24; v. 263; p. 539.
- Tanks, Fluid-control lock for. R. S. Klopfenstein and S. C. Brier. No. 1,297,184; Mar. 11; v. 260; p. 343.
- Tanks, Liquid-indicator for. W. R. Pippin. No. 1,311,244; July 29; v. 264; p. 725.
- Tanks, Overflow control for separating. C. Allen. No. 1,296,252; Mar. 4; v. 260; p. 100.
- Tanks, Registering attachment for flush-. J. W. Cox. No. 1,311,876; Aug. 5; v. 265; p. 5.
- Tanks, Reserve-provider for fuel. J. J. Richards, Jr. No. 1,323,649; Dec. 2; v. 269; p. 80.
- Tanks, Safety device for high-pressure gas-. W. F. Bredenbach. No. 1,303,248; May 13; v. 262; p. 175.
- Tanks, System for preventing leakage from fuel. O. A. Ross. No. 1,325,913; Dec. 23; v. 269; p. 628.
- Tanning apparatus. C. J. Glasel. No. 1,310,749; July 22; v. 264; p. 601.
- Tanning compound. B. Levin. No. 1,323,878; Dec. 2; v. 269; p. 123.
- Tanning-frame supports, &c., Structural-metal construction for. W. I. Baxter. No. 1,293,670; Feb. 11; v. 259; p. 192.
- Tanning leather for belts. F. Gilardini. No. 1,321,730; Nov. 11; v. 268; p. 323.
- Tanning process. J. M. Brown. No. 1,323,956; Dec. 2; v. 269; p. 138.
- Tanning process. S. Saxe. No. 1,297,255; Mar. 11; v. 260; p. 359.
- Tanning process. S. Saxe. (Reissue.) No. 14,719; Aug. 26; v. 265; p. 584.
- Tap. C. Herrman. No. 1,317,624; Sept. 30; v. 266; p. 693.
- Tap, Automatic. C. E. Gross, Jr. No. 1,308,902; July 8; v. 264; p. 192.
- Tap, Bottoming-. W. A. Cook. No. 1,296,627; Mar. 11; v. 260; p. 218.
- Tap, Collapsible. F. H. Richards. No. 1,290,356; Jan. 7; v. 258; p. 82.
- Tap, Collapsible. B. F. Rindfleisch. No. 1,318,179; Oct. 7; v. 267; p. 99.
- Tap, Collapsing. C. J. Knapp. No. 1,304,574; May 27; v. 262; p. 497.
- Tap connection for mains. J. F. Fanselon. No. 1,317,870; Oct. 7; v. 267; p. 40.
- Tap, Electric. O. R. Marsh. No. 1,290,623; Jan. 31; v. 258; p. 147.
- Tap or valve. W. E. Muntz. No. 1,294,692; Feb. 18; v. 259; p. 467.
- Tap, Self-closing. H. Jarvis. No. 1,314,195; Aug. 26; v. 265; p. 527.
- Tapping and drilling machine. A. W. Mesick. No. 1,291,592; Jan. 14; v. 258; p. 399.
- Tapping-machine. N. H. Anderson. No. 1,302,271; Apr. 29; v. 261; p. 895.
- Tapping-machine. R. H. Mueller. No. 1,301,730; Apr. 22; v. 261; p. 762.
- Tape attachment. M. H. Ballou. No. 1,303,756; May 13; v. 262; p. 266.
- Tape, Compensating. B. J. Campbell. No. 1,321,416; Nov. 11; v. 268; p. 264.
- Tape, Dispensing device for gummed. S. H. Paxton. No. 1,326,527; Dec. 30; v. 269; p. 781.
- Tape-line. H. M. Rand. No. 1,290,350; Jan. 7; v. 258; p. 81.
- Tape moistening and applying apparatus. N. Power. No. 1,315,405; Sept. 9; v. 266; p. 180.
- Tape-moistening machine, Multiple-length series-delivery. C. H. Crowell. No. 1,305,776; June 3; v. 263; p. 103.
- Tape throw-out for edging-machines. R. R. Hughes, Jr. No. 1,293,445; Feb. 4; v. 259; p. 110.
- Tape, Veneering-. H. J. Miller. No. 1,322,257; Nov. 18; v. 268; p. 472.
- Taper pipe. L. H. Brockest. No. 1,301,096; Apr. 22; v. 261; p. 638.
- Taping-machines, Cut-off mechanism for. L. J. Frohn. No. 1,318,320; Oct. 7; v. 267; p. 127.
- Tar-felt material, Making. L. O. Pickett. No. 1,321,669; Nov. 11; v. 268; p. 311.
- Tare-beam mounting. F. H. Buckingham. No. 1,295,967; Mar. 4; v. 260; p. 34.
- Target. H. F. Austin. No. 1,310,643; July 22; v. 264; p. 582.
- Target. A. Lasalle. No. 1,305,653; June 3; v. 263; p. 81.
- Target. E. E. Petersen. No. 1,293,903; Feb. 11; v. 259; p. 246.
- Target. T. Struthers. No. 1,305,022; May 27; v. 262; p. 580.
- Target apparatus. D. C. Coy. No. 1,306,048; June 10; v. 263; p. 184.
- Target apparatus. C. W. Hanson. No. 1,316,792; Sept. 23; v. 266; p. 499.
- Target, Cinematographic. H. B. Thompson. No. 1,308,876; July 1; v. 264; p. 187.
- Target, Explosive. R. E. Reardon. No. 1,321,849; Nov. 18; v. 268; p. 396.
- Target, Flying. R. H. Clark. No. 1,317,958; Oct. 7; v. 267; p. 56.
- Target-game device. H. H. Eisenhauer. No. 1,291,450; Jan. 14; v. 258; p. 366.
- Target-indicator, Multiple-turret. E. A. Sperry. No. 1,296,439; Mar. 4; v. 260; p. 139.
- Target-making machine. D. Morrill. No. 1,300,996; Apr. 15; v. 261; p. 580.
- Target-practice apparatus. H. H. Cummings. No. 1,323,841; Dec. 2; v. 269; p. 116.
- Target-sighting device. A. L. Hodges. No. 1,295,897; Mar. 4; v. 260; p. 18.
- Target-trap. H. C. Lord. No. 1,292,825; Jan. 28; v. 258; p. 750.
- Tea and coffee percolator, Combination. H. D. Marcus. No. 1,294,505; Feb. 18; v. 259; p. 423.
- Tea and coffee pot, Combined. A. Picard. No. 1,312,203; Aug. 5; v. 265; p. 66.
- Tea-ball. H. Cowan. No. 1,313,582; Aug. 19; v. 265; p. 377.
- Tea-beater, Electrical. W. B. Smits. No. 1,319,728; Oct. 28; v. 267; p. 504.
- Tea or coffee pot. R. E. Peters. No. 1,316,106; Sept. 16; v. 266; p. 322.
- Teaching children, Device or appliance for use in. E. L. Linay. No. 1,294,126; Feb. 11; v. 259; p. 300.
- Teaching children, Device or appliance for use in. E. L. Linay. No. 1,310,997; July 22; v. 264; p. 647.
- Teaching, Method and means of. C. H. Williams. No. 1,295,404; Feb. 25; v. 259; p. 653.
- Teaching phonics and spelling words, Means for aiding in. K. E. Schwarz. No. 1,326,695; Dec. 30; v. 269; p. 811.
- Teakettle attachment. N. L. Jones. No. 1,323,223; Nov. 25; v. 268; p. 707.
- Teapot and other vessels having similar spouts. T. W. Bennett. No. 1,292,569; Jan. 28; v. 258; p. 690.
- Teat-cup for milking-machines. C. M. Anderson. No. 1,312,941; Aug. 12; v. 265; p. 238.
- Teeter-board. E. Price. No. 1,320,710; Nov. 4; v. 268; p. 65.
- Teeth, Anchor for artificial. G. W. Ramsey and G. E. Fritz. No. 1,321,126; Nov. 11; v. 268; p. 208.
- Teeth, Anchor for removing bridges for. E. Sørensen. No. 1,314,224; Aug. 26; v. 265; p. 533.
- Teeth, Artificial. G. W. Grimm. No. 1,310,654; July 22; v. 264; p. 584.
- Teeth backings from sheet metal, Making false-. G. W. Dover. No. 1,313,528; Aug. 19; v. 265; p. 367.
- Teeth, Constructing and connecting artificial. H. J. Warren. No. 1,295,244; Feb. 25; v. 259; p. 617.
- Teeth, Forming metal backs for artificial. E. Garden. No. 1,322,424; Nov. 18; v. 268; p. 504.
- Teeth in correct positions, Means for placing. F. L. Stanton and G. D. Fish. No. 1,307,382; June 24; v. 263; p. 498.
- Teeth, Means for measuring. J. C. King. No. 1,323,697; Dec. 2; v. 269; p. 89.
- Teeth, Means for molding artificial. G. H. Whiteley, Jr. No. 1,290,448; Jan. 7; v. 258; p. 105.
- Teeth, Mold for making artificial. W. W. Crate. No. 1,297,448; Mar. 18; v. 260; p. 429.
- Teeth, Point for nerve-canals of. S. M. Hurtt. No. 1,312,120; Aug. 5; v. 265; p. 51.
- Teeth, Producing artificial. T. F. Glenn. No. 1,309,127; July 8; v. 264; p. 235.
- Teeth, Restoring. A. D. Pentz, Jr. No. 1,321,124; Nov. 11; v. 268; p. 207.
- Telaugographic apparatus. G. S. Tiffany. No. 1,312,596; Aug. 12; v. 265; p. 171.
- Telaugographic apparatus. G. S. Tiffany. No. 1,314,618; Sept. 2; v. 266; p. 27.
- Telaugographic apparatus. G. S. Tiffany. No. 1,314,619; Sept. 2; v. 266; p. 27.
- Telaugographic apparatus. G. S. Tiffany. No. 1,314,620; Sept. 2; v. 266; p. 28.
- Telaugographic apparatus. G. S. Tiffany. No. 1,322,372; Nov. 18; v. 268; p. 494.
- Telaugographic system. G. S. Tiffany. No. 1,314,617; Sept. 2; v. 266; p. 27.
- Teledynamic control. J. H. Hammond, Jr. No. 1,319,678; Oct. 21; v. 267; p. 472.
- Teledynamic-control system. J. H. Hammond, Jr. No. 1,295,741; Feb. 25; v. 259; p. 731.
- Teledynamic-control system. J. H. Hammond, Jr. No. 1,295,742; Feb. 25; v. 259; p. 731.
- Teledynamic control system. J. H. Hammond, Jr. No. 1,301,690; Apr. 22; v. 261; p. 754.
- Telegraph and other electric circuits, Relay for. D. Mc Nicol and W. O. Powers, Jr. No. 1,322,254; Nov. 18; v. 268; p. 471.
- Telegraph apparatus. E. Pope. No. 1,291,124; Jan. 14; v. 258; p. 291.
- Telegraph apparatus. E. Pope. No. 1,309,960; July 15; v. 264; p. 427.
- Telegraph-circuit. C. L. Fortescue. No. 1,315,953; Sept. 16; v. 266; p. 294.
- Telegraph instrument. J. S. Newman. No. 1,299,994; Apr. 8; v. 261; p. 339.
- Telegraph-key. J. J. Mason. No. 1,302,401; Apr. 29; v. 261; p. 920.
- Telegraph, Machine-. L. M. Potts. No. 1,309,745; July 15; v. 264; p. 387.
- Telegraph-printer. B. F. Merritt. No. 1,295,998; Mar. 4; v. 260; p. 40.

- Telegraph, Printing-. C. L. and H. L. Krum. No. 1,305,225; May 27; v. 262; p. 619.
- Telegraph receiver, Printing-. H. V. Grotjohann. No. 1,305,536; June 3; v. 263; p. 58.
- Telegraph receivers, Inking mechanism for printing-. G. S. Hiltz. No. 1,313,295; Aug. 19; v. 265; p. 323.
- Telegraph-repeater. C. W. McKibben. No. 1,307,558; June 24; v. 263; p. 530.
- Telegraph-repeater. A. D. Taylor. No. 1,291,247; Jan. 14; v. 258; p. 318.
- Telegraph-repeater. S. Voorhies. No. 1,291,697; Jan. 14; v. 258; p. 423.
- Telegraph sending-machine. W. C. Cozad. No. 1,304,025; May 20; v. 262; p. 354.
- Telegraph signaling system. T. B. Dixon. No. 1,323,581; Dec. 2; v. 269; p. 67.
- Telegraph-sounder. R. M. Irvin and A. P. Curtis. No. 1,319,733; Oct. 28; v. 267; p. 512.
- Telegraph-sounder. T. J. Murphy. No. 1,304,356; May 20; v. 262; p. 416.
- Telegraph-sounder. S. Voorhies. No. 1,295,646; Feb. 25; v. 259; p. 710.
- Telegraph-sounder circuits. S. Voorhies. No. 1,296,142; Mar. 4; v. 260; p. 75.
- Telegraph system. J. H. Bell. No. 1,296,613; Mar. 11; v. 260; p. 215.
- Telegraph system. J. H. Bell. No. 1,296,740; Mar. 11; v. 260; p. 244.
- Telegraph system. J. H. Bell. No. 1,298,868; Apr. 1; v. 261; p. 58.
- Telegraph system. J. H. Bell. No. 1,300,326; Apr. 15; v. 261; p. 439.
- Telegraph system. J. H. Bell. No. 1,306,299; June 10; v. 263; p. 233.
- Telegraph system. J. H. Bell. No. 1,310,595; July 22; v. 264; p. 573.
- Telegraph system. G. C. Cummings. No. 1,303,036; May 6; v. 262; p. 106.
- Telegraph system. G. C. Cummings. No. 1,324,496; Dec. 9; v. 269; p. 286.
- Telegraph system. O. D. M. Guthe. No. 1,322,010; Nov. 18; v. 268; p. 425.
- Telegraph system. F. R. McMurtry. No. 1,324,838; Dec. 16; v. 269; p. 412.
- Telegraph system. L. A. Mortimer and G. C. Cummings. No. 1,324,130; Dec. 9; v. 269; p. 215.
- Telegraph system. H. Pfannenstiel. No. 1,318,459; Oct. 14; v. 267; p. 214.
- Telegraph system. E. Pope. No. 1,305,620; June 3; v. 263; p. 76.
- Telegraph system. P. M. Rainey. No. 1,292,049; Jan. 21; v. 258; p. 543.
- Telegraph system, Duplex printing-. C. G. Ashley. No. 1,301,213; Apr. 22; v. 261; p. 663.
- Telegraph-tapes, Treating. P. B. Delany. No. 1,321,421; Nov. 11; v. 268; p. 265.
- Telegraph-transmitter. C. L. and H. L. Krum. No. 1,326,456; Dec. 30; v. 269; p. 767.
- Telegraph transmitter, Wireless-. C. S. Franklin. No. 1,304,868; May 27; v. 262; p. 552.
- Telegraph transmitters, Controlling wireless-. G. Reuthe. No. 1,308,530; July 1; v. 264; p. 95.
- Telegraphs, Take-up device for engine-room. F. J. Davis. No. 1,307,727; June 24; v. 263; p. 560.
- Telegrapher's instrument. L. A. Culver. No. 1,324,104; Dec. 9; v. 269; p. 210.
- Telegraphic and other instruments and installations. J. Hettinger. No. 1,322,566; Nov. 25; v. 268; p. 582.
- Telegraphic apparatus, Ship's. W. and W. R. Chadburn. No. 1,307,183; June 17; v. 263; p. 427.
- Telegraphic transmitter, Keyboard. E. E. Kleinschmidt. No. 1,317,506; Sept. 30; v. 266; p. 670.
- Telegraphic type-writer. O. Bennett. No. 1,312,775; Aug. 12; v. 265; p. 205.
- Telegraphy. W. M. Bruce, Jr. No. 1,317,859; Oct. 7; v. 267; p. 38.
- Telegraphy. T. B. Dixon. No. 1,316,699; Sept. 23; v. 266; p. 483.
- Telegraphy, Aerial conductor for wireless. C. S. Franklin. No. 1,322,101; Nov. 18; v. 268; p. 442.
- Telegraphy and apparatus therefor. A. C. Fuller. No. 1,316,540; Sept. 16; v. 266; p. 405.
- Telegraphy and telephony, Apparatus for directed wireless. E. Bellini. No. 1,297,313; Mar. 18; v. 260; p. 402.
- Telegraphy and telephony, Detector for wireless. F. S. Hover. No. 1,318,277; Oct. 7; v. 267; p. 119.
- Telegraphy and telephony, High-frequency-generator. G. von Arco and A. Meissner. No. 1,314,101; Aug. 26; v. 265; p. 509.
- Telegraphy and telephony, Radio. J. H. Hammond, Jr. No. 1,296,504; Mar. 4; v. 260; p. 153.
- Telegraphy and telephony, Radio. J. H. Hammond, Jr. No. 1,320,685; Nov. 4; v. 268; p. 61.
- Telegraphy and telephony, Reflector for use in wireless. G. Marconi and C. S. Franklin. No. 1,301,473; Apr. 22; v. 261; p. 713.
- Telegraphy and telephony, System of wireless. P. de Lanza. No. 1,317,435; Sept. 30; v. 266; p. 656.
- Telegraphy and telephony, Transmitting apparatus for wireless. G. von Arco and A. Meissner. No. 1,308,514; July 1; v. 264; p. 92.
- Telegraphy and telephony, Worm-gearing adjustment applicable to variable condensers for wireless. W. H. Edridge and E. E. G. Boite. No. 1,310,329; July 15; v. 264; p. 492.
- Telegraphy, Apparatus for wireless. J. S. Pletts. No. 1,291,121; Jan. 14; v. 258; p. 290.
- Telegraphy, Crystal detector for wireless. M. G. Sjöström. No. 1,319,804; Oct. 28; v. 267; p. 518.
- Telegraphy, Radio-. L. F. Fuller. No. 1,306,223; June 10; v. 263; p. 218.
- Telegraphy, Wireless. R. R. Beal. No. 1,320,525; Nov. 4; v. 268; p. 31.
- Telegraphy, Wireless. L. F. Fuller. (Reissue.) No. 14,760; Nov. 25; v. 268; p. 709.
- Telegraphy, Wireless. R. A. Weagant. No. 1,306,208; June 10; v. 263; p. 214.
- Telemeter. J. Mihalyi. No. 1,307,205; June 17; v. 263; p. 431.
- Telemotor. J. F. Johnston. No. 1,302,376; Apr. 29; v. 261; p. 916.
- Telemotor, Hydraulic. W. Wallace. No. 1,307,281; June 17; v. 263; p. 446.
- Telephone. A. Engelberg. No. 1,299,154; Apr. 1; v. 261; p. 122.
- Telephone. J. N. Reynolds. No. 1,323,318; Dec. 2; v. 269; p. 18.
- Telephone and its manufacture, Thermic. P. de Lange and R. A. van Lynden. No. 1,321,989; Nov. 18; v. 268; p. 422.
- Telephone and phonograph, Combined. J. F. Malthaner. No. 1,323,710; Dec. 2; v. 269; p. 91.
- Telephone and telegraph systems, Selective switch for. M. W. Schumacher. No. 1,319,307; Oct. 21; v. 267; p. 401.
- Telephone attachment. M. T. Allan. No. 1,297,774; Mar. 18; v. 260; p. 499.
- Telephone attachment. G. Dorsey. No. 1,304,461; May 20; v. 262; p. 437.
- Telephone attachment. E. Gransau. No. 1,304,308; May 20; v. 262; p. 406.
- Telephone attachment. E. Harter. No. 1,291,499; Jan. 14; v. 258; p. 377.
- Telephone attachment. A. F. Klauschie. No. 1,316,366; Sept. 16; v. 266; p. 371.
- Telephone attachment. W. H. Sleight. No. 1,316,653; Sept. 23; v. 266; p. 474.
- Telephone attachment. N. M. Stone. No. 1,324,283; Dec. 9; v. 269; p. 244.
- Telephone-bell damper. S. Acopian. No. 1,297,982; Mar. 25; v. 260; p. 569.
- Telephone-booth. M. C. Turner. No. 1,294,202; Feb. 11; v. 259; p. 318.
- Telephone-call-recording apparatus. C. E. Bedaux. No. 1,291,731; Jan. 21; v. 258; p. 463.
- Telephone central, &c., relay. M. B. Richter. No. 1,300,022; Apr. 8; v. 261; p. 346.
- Telephone-circuit. K. S. Johnson. No. 1,293,458; Feb. 4; v. 259; p. 113.
- Telephone-circuits, Constructing. H. S. Osborne. No. 1,320,489; Nov. 4; v. 268; p. 25.
- Telephone-circuits, Substation. R. D. Willis. No. 1,313,570; Aug. 19; v. 265; p. 375.
- Telephone coin-box and holder. H. M. Smeby. No. 1,321,156; Nov. 11; v. 268; p. 214.
- Telephone coin-receivers, Counter for. G. E. Reiss. No. 1,306,314; June 10; v. 263; p. 236.
- Telephone-currents, Apparatus for measuring. G. W. Pickard. No. 1,324,465; Dec. 9; v. 269; p. 230.
- Telephone-directories, Device for suspending and securing. W. E. Ludlow. No. 1,299,745; Apr. 8; v. 261; p. 285.
- Telephone-directory. A. H. Brunner. No. 1,319,563; Oct. 21; v. 267; p. 450.
- Telephone district exchange system. B. D. Willis and T. G. Martin. No. 1,306,825; June 17; v. 263; p. 362.
- Telephone-exchange. J. L. McQuarrie. No. 1,296,680; Mar. 11; v. 260; p. 230.
- Telephone-exchange. F. V. Young. No. 1,325,184; Dec. 16; v. 269; p. 476.
- Telephone-exchange, Automatic. G. W. and J. H. Lorimer. No. 1,294,285; Feb. 11; v. 259; p. 336.
- Telephone-exchange, Automatic. F. A. Lundquist. No. 1,307,589; June 24; v. 263; p. 535.
- Telephone-exchange, Party-line. N. E. Norstrom. No. 1,326,212; Dec. 30; v. 269; p. 721.
- Telephone-exchange system. W. R. Brough and W. L. Dodge. No. 1,326,475; Dec. 30; v. 269; p. 770.
- Telephone-exchange system. L. W. Carroll. No. 1,324,796; Dec. 16; v. 269; p. 405.
- Telephone-exchange system. H. P. Clausen. No. 1,291,766; Jan. 21; v. 258; p. 472.
- Telephone-exchange system. H. P. Clausen. No. 1,297,100; Mar. 11; v. 260; p. 326.
- Telephone-exchange system. H. P. Clausen. No. 1,312,778; Aug. 12; v. 265; p. 206.
- Telephone-exchange system. H. P. Clausen and C. L. Goodrum. No. 1,302,767; May 6; v. 262; p. 54.
- Telephone-exchange system. G. Deakin. No. 1,293,630; Feb. 4; v. 259; p. 152.
- Telephone-exchange system. A. H. Dyson. No. 1,307,489; June 21; v. 263; p. 517.



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- Telephone-exchange system. H. L. Harris. No. 1,324,739; Dec. 9; v. 269; p. 381.
- Telephone-exchange system. C. W. Keckler. No. 1,294,111; Feb. 11; v. 259; p. 296.
- Telephone-exchange system. C. W. Keckler. No. 1,297,358; Mar. 18; v. 260; p. 410.
- Telephone-exchange system. C. W. Keckler. No. 1,302,808; May 6; v. 262; p. 62.
- Telephone-exchange system. C. W. Keckler. No. 1,302,809; May 6; v. 262; p. 62.
- Telephone-exchange system. C. W. Keckler. No. 1,324,355; Dec. 9; v. 269; p. 258.
- Telephone-exchange system. F. Lubberger. No. 1,295,181; Feb. 25; v. 259; p. 602.
- Telephone-exchange system. A. E. Lundell. No. 1,307,057; June 17; v. 263; p. 406.
- Telephone-exchange system. A. E. Lundell. No. 1,312,126; Aug. 5; v. 265; p. 52.
- Telephone-exchange system. A. E. Lundell and F. A. Stearn. No. 1,294,498; Feb. 18; v. 259; p. 422.
- Telephone-exchange system. E. K. Lundius. No. 1,295,909; Mar. 4; v. 260; p. 20.
- Telephone-exchange system. E. R. Lundius. No. 1,296,677; Mar. 11; v. 260; p. 229.
- Telephone-exchange system. H. W. MacDougall. No. 1,312,795; Aug. 12; v. 265; p. 209.
- Telephone-exchange system. T. G. Martin. No. 1,316,101; Sept. 16; v. 266; p. 321.
- Telephone-exchange system. J. L. McQuarrie. No. 1,292,839; Jan. 28; v. 258; p. 753.
- Telephone-exchange system. J. L. McQuarrie. No. 1,298,365; Mar. 25; v. 260; p. 649.
- Telephone-exchange system. W. T. Powell. No. 1,308,553; July 1; v. 264; p. 99.
- Telephone-exchange system. J. N. Reynolds. No. 1,308,867; July 8; v. 264; p. 185.
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- Telephone-exchange system. D. M. Taggart. No. 1,326,546; Dec. 30; v. 269; p. 784.
- Telephone-exchange system. H. W. Ulrich. No. 1,296,023; Mar. 4; v. 260; p. 47.
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- Telephone-exchange system. R. S. Wilbur. No. 1,324,364; Dec. 9; v. 269; p. 260.
- Telephone-exchange system. S. B. Williams, Jr. No. 1,295,405; Feb. 25; v. 259; p. 653.
- Telephone-exchange system. S. B. Williams, Jr. No. 1,318,941; Oct. 14; v. 267; p. 306.
- Telephone-exchange system. J. L. Wright. No. 1,298,850; Apr. 1; v. 261; p. 54.
- Telephone-exchange system. J. L. Wright. No. 1,308,528; May 13; v. 262; p. 225.
- Telephone-exchange system and apparatus therefor. M. F. Hill. No. 1,322,170; Nov. 18; v. 268; p. 455.
- Telephone-exchange system, Automatic. A. E. Lundell. No. 1,304,335; May 20; v. 262; p. 412.
- Telephone-exchange system, Automatic and manual. W. L. Campbell and T. G. Martin. No. 1,301,648; Apr. 22; v. 261; p. 745.
- Telephone-exchange system, Machine-switching. A. B. Sperry. No. 1,294,557; Feb. 18; v. 259; p. 435.
- Telephone-exchange system, Multi-office. E. H. Clark. No. 1,292,257; Jan. 21; v. 258; p. 594.
- Telephone-exchange system, Semi-automatic. F. Lubberger. No. 1,306,824; June 17; v. 263; p. 362.
- Telephone-exchange systems, Automatic switching apparatus for. J. L. McQuarrie. No. 1,290,616; Jan. 7; v. 258; p. 145.
- Telephone-exchange trunking system. F. Lubberger. No. 1,292,827; Jan. 28; v. 258; p. 750.
- Telephone-exchange trunking system. F. Lubberger. No. 1,304,076; May 20; v. 262; p. 363.
- Telephone-exchanges, Signaling system for. R. L. Quass. No. 1,312,808; Aug. 12; v. 265; p. 212.
- Telephone-exchanges, Trunking arrangement for automatic. T. G. Martin. No. 1,314,685; Sept. 2; v. 266; p. 40.
- Telephone-fixture. L. Patten. No. 1,319,896; Oct. 28; v. 267; p. 586.
- Telephone-handset. G. H. Nash and B. B. Grace. No. 1,298,771; Apr. 1; v. 261; p. 36.
- Telephone-lines, Electromechanical switching system for interconnecting. F. Aldendorff. No. 1,319,031; Oct. 14; v. 267; p. 323.
- Telephone-lines paralleling power-lines, Telephone protective apparatus for. R. W. Osborne. No. 1,303,383; May 13; v. 262; p. 198.
- Telephone lockout-relay. F. W. Adsit. No. 1,290,691; Jan. 7; v. 258; p. 164.
- Telephone lockout system, Intercommunicating. F. W. Adsit. No. 1,307,651; June 24; v. 263; p. 546.
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- Telephone-receiver appliance. J. M. Wagner. No. 1,321,265; Nov. 11; v. 268; p. 235.
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- Telephone-receiver rest. E. F. Ruggles. No. 1,291,169; Jan. 14; v. 258; p. 301.
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- Telephone-receiver support. K. L. Standish. No. 1,306,445; June 10; v. 263; p. 260.
- Telephone, Recording. J. F. Malthaner. No. 1,290,621; Jan. 7; v. 258; p. 147.
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- Telephone signal-boxes, Chime attachment for. C. M. Van Heusen. No. 1,307,466; June 24; v. 263; p. 513.
- Telephone signal-boxes, Chime attachment for. C. M. Van Heusen. No. 1,307,467; June 24; v. 263; p. 514.
- Telephone signaling system. S. H. Everett. No. 1,293,390; Feb. 4; v. 259; p. 97.
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- Telephone-support and chair, Combination. H. McNeill. No. 1,313,494; Aug. 19; v. 265; p. 360.
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- Temperature reactions, Apparatus for conducting high-. N. Testrup. No. 1,322,652; Nov. 25; v. 268; p. 599.
- Temperature-regulator. H. Brooks. No. 1,313,938; Aug. 26; v. 265; p. 478.
- Temperature regulator and fuel vaporizer, Motor. R. S. Cunningham. No. 1,319,271; Oct. 21; v. 267; p. 394.
- Temperature-regulator, Automatic. W. Wyss. No. 1,296,250; Mar. 4; v. 260; p. 99.
- Temperature-responsive elements, Mounting for. H. H. Boyce. No. 1,326,176; Dec. 30; v. 269; p. 714.
- Temperatures, Instrument for determining critical. J. R. Brueckner. No. 1,323,824; Dec. 2; v. 269; p. 113.
- Temperatures, Producing low. A. J. Paris, Jr. No. 1,320,168; Oct. 28; v. 267; p. 586.
- Temple. G. H. Day. No. 1,306,805; June 17; v. 263; p. 359.
- Temple. L. Poeton. No. 1,306,773; June 17; v. 263; p. 353.
- Temporary or portable structure or building. C. S. Wakefield. No. 1,312,065; Aug. 5; v. 265; p. 40.
- Tennis-net reel. O. C. Janssen. No. 1,300,972; Apr. 15; v. 261; p. 575.
- Tennis-nets, Suspension for. R. S. Blair. No. 1,322,754; Nov. 25; v. 268; p. 617.
- Tennis-racket. H. Holding. No. 1,292,317; Jan. 21; v. 258; p. 608.
- Tenpin-setter, Automatic. W. O. Wheeler. No. 1,297,951; Mar. 18; v. 260; p. 536.
- Tenpins, Machine for trimming. G. P. Butler. No. 1,313,064; Aug. 12; v. 265; p. 263.
- Tensiometer. L. J. Larson. No. 1,322,123; Nov. 18; v. 268; p. 446.
- Tension device. H. A. Felton. No. 1,319,520; Oct. 21; v. 267; p. 441.
- Tension device. L. H. Horner. No. 1,298,044; Mar. 25; v. 260; p. 582.
- Tension device. C. Kiwul. No. 1,322,119; Nov. 18; v. 268; p. 445.
- Tension device. D. Locke. No. 1,303,486; May 13; v. 262; p. 217.
- Tension discharges, Production of high-. W. H. Wilson. No. 1,320,300; Oct. 28; v. 267; p. 611.
- Tension-equalizer. J. Lowe and J. J. Lyth. No. 1,319,961; Oct. 28; v. 267; p. 548.
- Tension-gate. P. E. Martin. No. 1,298,241; Mar. 25; v. 260; p. 624.
- Tension mechanism. Yarn-. L. T. Houghton. No. 1,306,148; June 10; v. 263; p. 203.
- Tension rectifier, High-. C. Fayer. No. 1,320,040; Oct. 28; v. 267; p. 562.
- Tension-wheel and producing same. E. E. Einfeldt. No. 1,299,439; Apr. 8; v. 261; p. 215.
- Tensioning device. M. J. Rich, Jr. No. 1,293,550; Feb. 4; v. 259; p. 134.
- Tensiometer. W. F. Grafton. No. 1,306,891; June 17; v. 263; p. 375.
- Tent. E. Sterhardt. No. 1,326,006; Dec. 23; v. 269; p. 645.
- Tent. J. H. Wittmann. No. 1,290,824; Jan. 7; v. 258; p. 195.
- Tent. A. D. Wright. No. 1,317,408; Sept. 30; v. 266; p. 651.
- Tent and cot. Canoe. R. D. George. No. 1,322,164; Nov. 18; v. 268; p. 454.
- Tent and portable and knockdown house. J. L. Linville. No. 1,291,947; Jan. 21; v. 258; p. 518.
- Tent construction. C. Drohovith. No. 1,295,713; Feb. 25; v. 259; p. 725.
- Tent-frame. M. Buck. No. 1,291,758; Jan. 21; v. 258; p. 470.
- Tent-frame. G. H. Schiffmacher. No. 1,314,758; Sept. 2; v. 266; p. 53.
- Tent-frame, Folding. M. Ostroski. No. 1,306,615; June 10; v. 263; p. 291.
- Tent, Fumigating-. M. M. Swain. No. 1,322,149; Nov. 18; v. 268; p. 451.
- Tent-stake. E. Juelson. No. 1,304,779; May 27; v. 262; p. 535.
- Tent, Window-. E. W. Jones. No. 1,314,474; Aug. 26; v. 265; p. 580.
- Tents, Apparatus for operating fumigating-. W. H. Stone. No. 1,295,079; Feb. 18; v. 259; p. 555.
- Tents for field-hospitals, depots, and like purposes, Construction of. F. W. Lancaster. No. 1,302,182; Apr. 29; v. 261; p. 878.
- Tentering and other machines, Drying process and apparatus for. F. P. Boland. No. 1,294,035; Feb. 11; v. 259; p. 278.
- Tentering-machine. W. P. Thompson. No. 1,326,309; Dec. 30; v. 269; p. 739.
- Terminal box. M. Luther. No. 1,295,995; Mar. 4; v. 260; p. 40.
- Terminal connector. J. W. Jordan. No. 1,310,661; July 22; v. 264; p. 585.
- Terminal, Contact-. T. D. Lynch. No. 1,317,203; Sept. 30; v. 266; p. 612.
- Terminal member and fixture-stud-attaching means. D. Byrne. No. 1,323,152; Nov. 25; v. 268; p. 692.
- Terminal-protector. M. La Rocco. No. 1,315,135; Sept. 2; v. 266; p. 120.
- Terminal receptacle, Concealed. H. C. Adam. No. 1,297,772; Mar. 18; v. 260; p. 499.
- Terminals, Constructing electric. W. M. Austin. No. 1,308,975; July 8; v. 264; p. 206.
- Terminals, Guard for drain-tile. C. E. H. Juel. No. 1,318,084; Oct. 7; v. 267; p. 80.
- Test-connector. W. L. Flye. No. 1,301,827; Apr. 29; v. 261; p. 812.
- Testing apparatus. G. Kaupert. No. 1,306,066; June 10; v. 263; p. 187.
- Testing complex liquids, Apparatus for. A. T. Saunders. No. 1,307,601; June 24; v. 263; p. 537.
- Testing-frame, Oculist's. A. E. Ibershoff. No. 1,293,450; Feb. 4; v. 259; p. 111.
- Testing-machine. L. E. Foster. No. 1,307,091; June 17; v. 263; p. 411.
- Testing machine, Angle and lead. H. E. Harris. No. 1,303,198; May 6; v. 262; p. 137.
- Testing-machines, Recording attachment for. H. L. Scott. No. 1,324,470; Dec. 9; v. 269; p. 281.
- Testing system. E. R. Lundius. No. 1,293,825; Feb. 11; v. 259; p. 229.
- Textile apparatus. H. D. Colman. No. 1,304,661; May 27; v. 262; p. 513.
- Textile apparatus. J. W. Roberts. No. 1,312,874; Aug. 12; v. 265; p. 225.
- Textile art. W. D. Hartshorne. No. 1,313,594; Aug. 19; v. 265; p. 380.
- Textile fabrics, Attachment for unraveling. J. Brown. No. 1,305,586; June 3; v. 263; p. 69.
- Textile fabrics, Process and apparatus for producing smooth-surfaced coating on. E. Weinheim. No. 1,313,655; Aug. 19; v. 265; p. 390.
- Textile fibers and textile fabrics, Production of foam or froth baths for treating. P. Schmid. No. 1,316,808; Sept. 23; v. 266; p. 502.
- Textile-machine. E. F. Hathaway and C. Lea. No. 1,313,294; Aug. 19; v. 265; p. 323.
- Textile-machine. E. La Chance and J. D. Pennell. No. 1,317,024; Sept. 23; v. 266; p. 542.
- Textile-machines, Stop-motion for. J. Higginson. No. 1,303,664; May 13; v. 262; p. 249.
- Textile piece goods, Machine for straightening weft-threads of. E. Huber. No. 1,326,057; Dec. 23; v. 269; p. 655.
- Textile strands, Uniting. E. J. Lipps. No. 1,302,187; Apr. 29; v. 261; p. 879.
- Thawing means for frosted fire-hydrants, water-main, &c. M. V. Farrell and H. L. Maier. No. 1,294,888; Feb. 18; v. 259; p. 513.
- Thawing frozen pipes or the like, Device for. E. A. Sackerman. No. 1,316,190; Sept. 16; v. 266; p. 337.
- Theater-chair. L. C. and M. R. Toole. No. 1,299,810; Apr. 8; v. 261; p. 300.
- Theater-seat coat and article holder. C. R. Davis. No. 1,298,181; Mar. 25; v. 260; p. 611.
- Theatrical apparatus. H. Thurston. No. 1,324,630; Dec. 9; v. 269; p. 311.
- Theatrical appliance. L. McCormick. No. 1,324,680; Dec. 9; v. 269; p. 321.
- Theatrical appliance. M. Orton. No. 1,301,963; Apr. 29; v. 261; p. 838.
- Theatrical device. W. S. and L. E. Johnson. No. 1,297,473; Mar. 18; v. 260; p. 434.
- Theatrical effects, Producing. F. C. Rockwell and W. M. Davis. No. 1,295,374; Feb. 25; v. 259; p. 646.
- Therapeutic apparatus. F. A. Anderson. No. 1,290,036; Jan. 7; v. 258; p. 5.
- Therapeutic apparatus. J. Lee. No. 1,314,002; Aug. 26; v. 265; p. 490.

- Therapeutic device. W. H. Fitz Gerald. No. 1,315,825; Sept. 9; v. 266; p. 255.
- Thermal circuit-closer. R. Dijkstra. No. 1,307,086; June 17; v. 263; p. 411.
- Thermic timing element. D. Danielsson. No. 1,316,429; Sept. 16; v. 266; p. 383.
- Thermionic amplifier. E. R. Stoeckle. No. 1,309,704; July 15; v. 264; p. 379.
- Thermo-electric couple. W. H. Bristol. No. 1,315,205; Sept. 9; v. 266; p. 144.
- Thermo-electric regulator. W. G. Hartwig. No. 1,300,215; Apr. 8; v. 261; p. 389.
- Thermometer. E. H. Bristol. No. 1,307,037; June 17; v. 263; p. 402.
- Thermometer. F. L. Freas. No. 1,316,780; Sept. 23; v. 266; p. 497.
- Thermometer, Adjustable. L. G. Copeman. No. 1,312,834; Aug. 12; v. 265; p. 217.
- Thermometer-case. H. C. Parsons. No. 1,302,082; Apr. 29; v. 261; p. 860.
- Thermometer, Clinical. L. G. Hegner. No. 1,299,339; Apr. 1; v. 261; p. 164.
- Thermometer, Clinical. L. J. Hillenbrand. No. 1,321,743; Nov. 11; v. 268; p. 325.
- Thermometer, Distance. J. F. J. Malone. No. 1,298,075; Mar. 25; v. 260; p. 587.
- Thermometer, Metallic. J. L. Wheeler. No. 1,325,547; Dec. 23; v. 269; p. 561.
- Thermometer, Oven. M. M. Benziger. No. 1,326,386; Dec. 30; v. 269; p. 753.
- Thermometer, Oven. H. B. Kerlin. No. 1,298,054; Mar. 25; v. 260; p. 583.
- Thermometer-supporting means. H. P. Milker. No. 1,322,925; Nov. 25; v. 268; p. 649.
- Thermometers, Sterilizing-carrier for clinical. C. J. Langley and C. P. Wood. No. 1,305,471; June 3; v. 263; p. 46.
- Thermostat. W. Barstow. No. 1,292,991; Feb. 4; v. 259; p. 5.
- Thermostat. T. J. M. Daly and L. Dalton. No. 1,321,287; Nov. 11; v. 268; p. 239.
- Thermostat. C. W. Hack. No. 1,306,007; June 10; v. 263; p. 177.
- Thermostat. L. P. Hynes. No. 1,293,786; Feb. 11; v. 259; p. 220.
- Thermostat. P. S. Martin. No. 1,318,401; Oct. 14; v. 267; p. 202.
- Thermostat. H. A. Mulvany and H. E. Kennedy. No. 1,294,141; Feb. 11; v. 259; p. 303.
- Thermostat. E. J. Rohne. No. 1,323,203; Nov. 25; v. 268; p. 702.
- Thermostat, Electric-contact. H. G. Geissinger. No. 1,315,601; Sept. 9; v. 266; p. 215.
- Thermostat, Electric-contact. H. G. Geissinger. No. 1,315,602; Sept. 9; v. 266; p. 215.
- Thermostat, Electric-contact. H. G. Geissinger. No. 1,315,603; Sept. 9; v. 266; p. 215.
- Thermostat, Electric-contact. H. G. Geissinger. No. 1,316,361; Sept. 16; v. 266; p. 370.
- Thermostat shower-head. L. B. Yeiser. No. 1,303,140; May 6; v. 262; p. 126.
- Thermostatic alarm. F. L. Scoutten. No. 1,301,011; Apr. 15; v. 261; p. 584.
- Thermostatic control device. L. R. Teeple. No. 1,304,822; May 27; v. 262; p. 543.
- Thermostatic control for electric batteries of automobiles, &c. J. F. Andres. No. 1,314,629; Sept. 2; v. 266; p. 29.
- Thermostatic control for radiators, Individual. E. S. Halsey. No. 1,312,113; Aug. 5; v. 265; p. 49.
- Thermostatic control means for motors. L. Cammen. No. 1,303,768; May 13; v. 262; p. 269.
- Thermostatic controlling device. F. J. Decker. No. 1,323,456; Dec. 2; v. 269; p. 44.
- Thermostatic system. E. E. Gold. No. 1,292,396; Jan. 21; v. 258; p. 626.
- Theft-indicating sign, Vehicle. P. McCarthy. No. 1,315,374; Sept. 9; v. 266; p. 175.
- Theft-proof attachment for portable receptacles. J. E. Robertson. No. 1,315,038; Sept. 2; v. 266; p. 103.
- Thimble attachment, Magnetic. H. V. Bradford. No. 1,301,093; Apr. 22; v. 261; p. 638.
- Thimble, Cable. M. M. Goldman and M. J. Connelly. No. 1,311,555; July 29; v. 264; p. 784.
- Thorium fluorid, Treatment of. L. W. Ryan. No. 1,307,152; June 17; v. 263; p. 422.
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- Thread conditioning and manipulating device. S. W. Wardwell. No. 1,316,210; Sept. 16; v. 266; p. 341.
- Thread-controller device. A. H. Sawtell. No. 1,313,919; Aug. 26; v. 265; p. 474.
- Thread-cutter. M. A. Meagher. No. 1,290,629; Jan. 7; v. 258; p. 149.
- Thread-cutter and hem-creaser. A. C. Lincoln. No. 1,299,971; Apr. 8; v. 261; p. 335.
- Thread cutter and holder. F. W. Hawkes. No. 1,298,501; Mar. 25; v. 260; p. 680.
- Thread-cutter and spool-holder. J. M. Majors. No. 1,295,549; Feb. 25; v. 259; p. 688.
- Thread-cutting attachment. J. M. C. Johnson. No. 1,311,125; July 22; v. 264; p. 671.
- Thread-cutting die. G. Gradville. No. 1,326,047; Dec. 23; v. 269; p. 653.
- Thread-cutting-die-lubricating attachment. F. Van Dyke. No. 1,294,851; Feb. 18; v. 259; p. 504.
- Thread-cutting mechanism. B. T. Leveque. No. 1,317,800; Oct. 7; v. 267; p. 26.
- Thread-cutting tool. M. A. Newman. No. 1,312,345; Aug. 5; v. 265; p. 91.
- Thread-gage. R. B. Weaver. No. 1,294,004; Feb. 11; v. 259; p. 271.
- Thread-guide. W. C. Potter. No. 1,326,371; Dec. 30; v. 269; p. 750.
- Thread-guide, Porcelain. F. Cass. No. 1,296,479; Mar. 4; v. 260; p. 148.
- Thread-lead indicator. F. G. Lindgren. No. 1,297,194; Mar. 11; v. 260; p. 346.
- Thread or yarn tension device and clearer. F. A. Holt and G. Kershaw. No. 1,311,448; July 29; v. 264; p. 764.
- Thread placer and cutter. R. A. Marshall. No. 1,307,015; June 17; v. 263; p. 398.
- Thread-protecting device. J. Schirra. No. 1,303,402; May 13; v. 262; p. 202.
- Thread severing and holding mechanism. E. J. Ray. No. 1,298,786; Apr. 1; v. 261; p. 40.
- Thread-spinning mechanism. B. L. Bloom. No. 1,302,626; May 6; v. 262; p. 27.
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- Thread-uniting machine. E. F. Hathaway. No. 1,305,706; June 3; v. 263; p. 90.
- Thread waxing and guiding device. F. Ashworth. No. 1,322,746; Nov. 25; v. 268; p. 616.
- Thread-waxing device. F. Ashworth. No. 1,298,638; Apr. 1; v. 261; p. 4.
- Threads, &c., Machine for cutting internal. D. E. Ross. No. 1,296,854; Mar. 11; v. 260; p. 270.
- Threading apparatus, Electrode. W. A. Shaw. No. 1,308,302; July 1; v. 264; p. 54.
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- Thresher. I. N. Gibson. No. 1,325,150; Dec. 16; v. 269; p. 470.
- Thresher, Bean. L. D. Paulson. No. 1,309,910; July 15; v. 264; p. 417.
- Threshers, Straw and grain separator for. W. B. Linn. No. 1,325,480; Dec. 16; v. 269; p. 530.
- Threshing apparatus. A. E. Reitzel. No. 1,306,028; June 10; v. 263; p. 180.
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- Threshing-machine. F. Eves. No. 1,301,671; Apr. 22; v. 261; p. 750.
- Threshing-machine. A. O. Loen. No. 1,291,571; Jan. 14; v. 258; p. 394.
- Threshing-machine. G. P. Luedke. No. 1,290,610; Jan. 7; v. 258; p. 143.
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- Threshing-machine feeding device. J. H. Crumb. No. 1,299,634; Apr. 8; v. 261; p. 271.
- Threshing-machine, Floating. J. C. Charboneau. No. 1,293,706; Feb. 11; v. 259; p. 200.
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- Threshing-machines, Grain-saving device for. C. R. Daigh. No. 1,324,233; Dec. 9; v. 269; p. 234.
- Threshing-machines, Self-feeder for. H. F. Grandall and N. R. Krause. No. 1,325,691; Dec. 23; v. 269; p. 587.
- Threshing-machines, Straw-cutter for. H. A. Elmer. No. 1,324,147; Dec. 9; v. 269; p. 218.
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- Thrust-meter. S. Hashimoto. No. 1,297,086; Mar. 18; v. 260; p. 479.
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- Ticket, Combination-. J. N. Wilson. No. 1,315,892; Sept. 9; v. 266; p. 268.
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- Ticket-delivering and change-receiving apparatus. B. I. E. M. Ohlson and N. G. O. Lundberg. No. 1,293,501; Feb. 4; v. 259; p. 122.
- Ticket-delivery apparatus. W. B. Tracy. No. 1,292,925; Jan. 28; v. 258; p. 773.
- Ticket-holder. G. W. Abbott. No. 1,294,021; Feb. 11; v. 269; p. 276.
- Ticket-holder. C. N. Barton. No. 1,302,624; May 6; v. 262; p. 27.
- Ticket-holder. E. Bernier. No. 1,294,997; Feb. 18; v. 259; p. 537.
- Ticket-holder. C. H. Cowan, Jr. No. 1,311,758; July 29; v. 264; p. 822.
- Ticket-holder, pay-envelop, and the like. J. F. Sherlock. No. 1,292,967; Jan. 28; v. 258; p. 784.
- Ticket issuing and collecting. A. Swartz. No. 1,319,254; Oct. 21; v. 267; p. 391.
- Ticket-issuing machine. C. Forth. No. 1,320,680; Nov. 4; v. 268; p. 60.
- Ticket-issuing machine. R. H. Helsel. No. 1,304,977; May 27; v. 262; p. 572.
- Ticket-issuing machine. H. A. Martin. No. 1,314,345; Aug. 26; v. 265; p. 556.
- Ticket-issuing machine, Railway-. H. A. Martin. No. 1,309,954; July 15; v. 264; p. 426.
- Ticket-issuing mechanism. R. H. Helsel. No. 1,304,976; May 27; v. 262; p. 572.
- Ticket-issuing mechanism. C. L. Lee. No. 1,299,742; Apr. 8; v. 261; p. 284.
- Ticket-issuing mechanism. W. L. Sullivan. No. 1,308,966; July 8; v. 264; p. 204.
- Ticket-machine. F. Skerl. No. 1,313,958; Aug. 26; v. 265; p. 482.
- Ticket machine, Pin-. M. O. Anthony and J. E. O'Donnell. No. 1,292,224; Jan. 21; v. 258; p. 586.
- Ticket machine, Railway-. C. Forth. No. 1,320,681; Nov. 4; v. 268; p. 60.
- Ticket, Marking-. G. A. Wallin. No. 1,298,268; Mar. 25; v. 260; p. 630.
- Ticket-printing mechanism. H. C. Banwell and F. Phillips. No. 1,309,832; July 15; v. 264; p. 402.
- Ticket, Railway fare receipt. C. W. Heath and W. P. Conlin. No. 1,325,941; Dec. 23; v. 269; p. 633.
- Ticket, Railway transfer-. F. W. Werner and H. C. Kendall. No. 1,294,735; Feb. 18; v. 259; p. 476.
- Ticket-registering device. C. W. Britcher and J. R. Vezina. No. 1,291,753; Jan. 21; v. 258; p. 468.
- Ticket-sheet. C. C. Ketchum and C. Ziehl. No. 1,325,477; Dec. 16; v. 269; p. 529.
- Ticket, Transfer-. W. R. Biddle. No. 1,302,758; May 6; v. 262; p. 52.
- Ticket, Transportation-. J. W. Harmsley. No. 1,322,017; Nov. 18; v. 268; p. 426.
- Ticket-vender. J. W. Field. No. 1,303,278; May 13; v. 262; p. 180.
- Tickets and the like, Holder for. M. Macdonald. No. 1,309,255; July 8; v. 264; p. 258.
- Tickets and the like, Machine for sorting. E. W. Chandler. No. 1,295,432; Feb. 25; v. 259; p. 660.
- Ticketing machine, Pin-. G. W. Henry, Jr. No. 1,300,726; Apr. 15; v. 261; p. 523.
- Tide-motor. J. E. Wright. No. 1,304,238; May 20; v. 262; p. 392.
- Tie: See—
- Concrete tie. Metallic railway-tie.
- Concrete railway-tie. Package-tie.
- Joint-tie. Plastic tie.
- Letter-tie. Rail-tie.
- Letter and bundle tie. Railroad-tie.
- Metal tie. Railway-tie.
- Metallic tie. Rope-tie.
- Tie. R. Cooperman. No. 1,325,001; Dec. 16; v. 269; p. 441.
- Tie. W. H. and S. S. Day. No. 1,291,776; Jan. 21; v. 258; p. 474.
- Tie and joint, Combined. P. E. Moore. No. 1,300,290; Apr. 15; v. 261; p. 431.
- Tie and rail-chair, Metallic. F. Barniak. No. 1,326,563; Dec. 30; v. 269; p. 787.
- Tie and rail-fastener, Metallic. B. F. Cummings. No. 1,311,323; July 29; v. 264; p. 741.
- Tie and rail-fastener, Metallic. H. Fudczko. No. 1,314,956; Sept. 2; v. 266; p. 88.
- Tie-handling device. O. G. Desch. No. 1,291,437; Jan. 14; v. 258; p. 363.
- Tie-holder. L. Atanasoff. No. 1,312,071; Aug. 5; v. 265; p. 41.
- Tie-holder. T. M. Kosinski. No. 1,311,900; Aug. 5; v. 265; p. 10.
- Tie lifter and holder. E. B. Emmons and E. T. Johnson. No. 1,297,453; Mar. 18; v. 260; p. 430.
- Tie-mold. F. J. Gey, Jr. No. 1,315,112; Sept. 2; v. 266; p. 117.
- Tie-piece for metallic reinforcements. J. F. Havemeyer. No. 1,296,513; Mar. 4; v. 260; p. 156.
- Tie-plate. E. H. Bell. No. 1,318,334; Oct. 7; v. 267; p. 129.
- Tie-plate. J. E. May. No. 1,321,225; Nov. 11; v. 268; p. 227.
- Tie-plate. W. Volkhardt. No. 1,290,428; Jan. 7; v. 258; p. 99.
- Tie-plate and rail-brace, Combination. C. W. Hackett. No. 1,312,905; Aug. 12; v. 265; p. 231.
- Tie-plate, Anticreeper. H. W. Church. No. 1,291,410; Jan. 14; v. 258; p. 357.
- Tie-press. H. C. Smith. No. 1,296,017; Mar. 4; v. 260; p. 45.
- Tie-rod-withdrawing jack. R. Sharp. No. 1,298,105; Mar. 25; v. 260; p. 594.
- Tie-spacer. W. L. Ballinger. No. 1,307,291; June 17; v. 263; p. 448.
- Tie-spacer. J. A. Sommerlatte. No. 1,319,931; Oct. 28; v. 267; p. 542.
- Tile, Building-. D. McIntyre. No. 1,305,294; June 3; v. 263; p. 13.
- Tile, Building-. A. O. Thomas. No. 1,302,728; May 6; v. 262; p. 47.
- Tile building construction. H. R. Straight. No. 1,317,183; Sept. 30; v. 266; p. 609.
- Tile, Composition. R. W. Schweimler and P. A. Poulalion. No. 1,322,004; Nov. 18; v. 268; p. 424.
- Tile construction. J. A. Flahive. No. 1,309,064; July 8; v. 264; p. 223.
- Tile construction, Building-. W. O. Johnstone. No. 1,325,249; Dec. 16; v. 269; p. 488.
- Tile floor. J. A. Bried. No. 1,306,246; June 10; v. 263; p. 224.
- Tile flooring and the like, Producing imitative-. W. F. Walling. No. 1,311,362; July 29; v. 264; p. 748.
- Tile-forming machine. J. K. Wierowski. No. 1,316,213; Sept. 16; v. 266; p. 342.
- Tile, Hollow building-. J. T. Taylor. No. 1,310,220; July 15; v. 264; p. 473.
- Tile or block-. F. R. Hale. No. 1,290,740; Jan. 7; v. 258; p. 176.
- Tile-positioning device. G. F. Storm. No. 1,294,320; Feb. 11; v. 259; p. 345.
- Tile-press. H. Stommel. No. 1,321,160; Nov. 11; v. 268; p. 215.
- Tile-press. F. B. Yingling. No. 1,308,213; July 1; v. 264; p. 38.
- Tile, Roofing-. L. N. Brown. No. 1,303,022; May 6; v. 262; p. 104.
- Tiles and forming complementally-functioning matrix units, Multiple mold for. J. A. Ferguson. No. 1,298,027; Mar. 25; v. 260; p. 578.
- Tiles, Antislipping ceramic. G. N. Jeppson and C. F. Dietz. No. 1,292,953; Jan. 28; v. 258; p. 780.
- Tiles, Machine for assembling. J. J. Semashko. No. 1,315,166; Sept. 2; v. 266; p. 126.
- Tiles, Machine for assembling. J. J. Semashko. No. 1,315,167; Sept. 2; v. 266; p. 127.
- Tiles, Making drain-. P. R. McCrary. No. 1,314,279; Aug. 26; v. 265; p. 543.
- Tillage, Machine for soil-. J. S. Wentworth. No. 1,319,936; Oct. 28; v. 267; p. 543.
- Tiller. C. F. Haderer. No. 1,309,801; July 15; v. 264; p. 397.
- Tiller. T. W. Hicks. No. 1,320,469; Nov. 4; v. 268; p. 21.
- Tilling-machine. C. Owens. No. 1,294,846; Feb. 11; v. 259; p. 350.
- Tilling machine, Deep-. P. B. Crane. No. 1,308,169; July 1; v. 264; p. 30.
- Tilling the soil, Apparatus for mechanically. H. B. W. P. and D. P. Crum. No. 1,317,432; Sept. 30; v. 266; p. 656.
- Tilting table. G. Anderson. No. 1,299,894; Apr. 8; v. 261; p. 319.
- Tilting trap. F. C. Farnsworth. No. 1,308,897; July 8; v. 264; p. 191.
- Timber, &c., Appliance for handling. G. H. Spencer. No. 1,297,745; Mar. 18; v. 260; p. 493.
- Timber-gage. M. Paulsen. No. 1,305,562; June 3; v. 263; p. 63.
- Timber-hook. A. M. Clough. No. 1,306,802; June 17; v. 263; p. 358.
- Timber-piling machines, Automatic unloader for. J. O. Bradney and H. Priester. No. 1,325,074; Dec. 16; v. 269; p. 455.
- Time and date indicator. S. P. Thompson. No. 1,311,101; July 22; v. 264; p. 666.
- Time-checker, Service. E. M. Schantz. No. 1,299,236; Apr. 1; v. 261; p. 141.
- Time-checking apparatus for workmen and other employees. G. E. Allin. No. 1,315,588; Sept. 9; v. 266; p. 213.

- Time circuit-controller. J. M. Andersen. No. 1,299,812; Apr. 8; v. 261; p. 301.
- Time-controlled furnace-regulator. H. A. Mailloux. No. 1,317,172; Sept. 30; v. 266; p. 606.
- Time-controlled mechanism. W. A. Heinrich. No. 1,299,340; Apr. 1; v. 261; p. 164.
- Time-controlled mechanism. J. D. Humphrey. No. 1,293,102; Feb. 4; v. 259; p. 31.
- Time-controlled power mechanism. C. E. Morris. No. 1,320,780; Nov. 4; v. 268; p. 79.
- Time-controlled regulator. G. Karst and A. J. Nelson. No. 1,321,103; Nov. 11; v. 268; p. 204.
- Time element, Magnetic. L. W. Thompson. No. 1,316,984; Sept. 23; v. 266; p. 535.
- Time-indicating system. J. W. Bryce. No. 1,298,000; Mar. 25; v. 260; p. 572.
- Time-lock for interlocking machines. V. I. Smart. No. 1,326,298; Dec. 30; v. 269; p. 737.
- Time-lock, Recording. E. S. Phelps. No. 1,314,427; Aug. 26; v. 265; p. 572.
- Time-operated cost-computing device. M. W. Shilling and M. Henderson. No. 1,322,362; Nov. 18; v. 268; p. 492.
- Time-recorder. W. J. Tidd. No. 1,308,128; July 1; v. 264; p. 22.
- Time-recorder, Autographic. H. Hartman and J. Erdoes. No. 1,306,481; June 10; v. 263; p. 287.
- Time-recorder, Workman's. A. L. Schm. No. 1,304,618; May 27; v. 262; p. 505.
- Time-recording apparatus. J. W. Hughes. No. 1,323,058; Nov. 25; v. 268; p. 674.
- Time relay, Maximum-. A. Aichele. No. 1,301,991; Apr. 29; v. 261; p. 843.
- Time-switch. J. W. Roberts. No. 1,317,893; Oct. 7; v. 267; p. 44.
- Time-switch. H. S. Sines. No. 1,300,498; Apr. 15; v. 261; p. 475.
- Time-switch. H. S. Sines. No. 1,309,426; July 8; v. 264; p. 290.
- Time-switch for electric lights. W. T. Rowell. No. 1,294,540; Feb. 18; v. 259; p. 431.
- Time-table. T. N. Poullain. No. 1,293,914; Feb. 11; v. 259; p. 249.
- Timekeeping device. B. H. Moran. No. 1,315,321; Sept. 9; v. 266; p. 165.
- Timepiece. A. Stewart. No. 1,310,038; July 15; v. 264; p. 440.
- Timepiece, Bezel-wound. P. O. Dorer. No. 1,301,919; Apr. 29; v. 261; p. 830.
- Timer. M. J. Barnett. No. 1,312,885; Aug. 12; v. 265; p. 227.
- Timer. S. A. Campbell. No. 1,293,328; Feb. 4; v. 259; p. 83.
- Timer, H. W. Muhleisen and C. Lund. No. 1,305,559; June 3; v. 263; p. 63.
- Timer. M. E. Primbs. No. 1,326,781; Dec. 30; v. 269; p. 828.
- Timer. H. H. Shelters. No. 1,313,561; Aug. 19; v. 265; p. 373.
- Timer-casing. F. C. Hersee. No. 1,312,985; Aug. 12; v. 265; p. 247.
- Timer, distributor, and induction-coil apparatus, Combination. J. H. Lehman. (Reissue.) No. 14,646; May 13; v. 262; p. 283.
- Timer-distributor mechanism. E. R. Hodges. No. 1,311,893; Aug. 5; v. 265; p. 8.
- Timer-distributor mechanism. E. J. Tomlinson. No. 1,303,523; May 13; v. 262; p. 224.
- Timer, Ignition-. E. B. Jacobson. No. 1,325,501; Dec. 16; v. 269; p. 534.
- Timer, Ignition-. E. B. Jacobson. No. 1,325,502; Dec. 16; v. 269; p. 534.
- Timing apparatus. C. E. Brandfass. No. 1,312,888; Aug. 12; v. 265; p. 227.
- Timing apparatus. D. S. Holt. No. 1,326,895; Dec. 30; v. 269; p. 849.
- Timing device. F. W. Smith. No. 1,301,613; Apr. 22; v. 261; p. 738.
- Timing mechanism. C. Cretors. No. 1,309,564; July 8; v. 264; p. 316.
- Timing mechanism. F. R. Jaeger. No. 1,310,702; July 22; v. 264; p. 592.
- Timing mechanism, Automatic spark-. D. Wells. No. 1,309,924; July 15; v. 264; p. 420.
- Tin andterne plates, &c., and machinery or apparatus for said manufacture, Manufacture of. H. S. Thomas, W. R. Davies, and R. B. Thomas. No. 1,294,970; Feb. 18; v. 259; p. 530.
- Tin-cleaning device. U. U. Ulam. No. 1,294,574; Feb. 18; v. 259; p. 439.
- Tin from iron, Removing. C. P. Tatro and G. Dellus. No. 1,316,926; Sept. 23; v. 266; p. 524.
- Tin or sheet mill polishing apparatus. S. Hitchings. No. 1,301,440; Apr. 22; v. 261; p. 707.
- Tin-scraper, Utilization of. D. A. and S. H. Wilcox. No. 1,310,381; July 15; v. 264; p. 502.
- Tinning-machine. H. S. Thomas, W. R. Davies, and R. B. Thomas. No. 1,304,408; May 20; v. 262; p. 426.
- Tip. M. S. Snyder. No. 1,313,422; Aug. 19; v. 265; p. 347.
- Tip-attaching implement. A. Youdelman. No. 1,312,292; Aug. 5; v. 265; p. 81.
- Tip-attaching implement. A. Youdelman. No. 1,326,819; Dec. 30; v. 269; p. 836.
- Tip-attaching implement. A. Youdelman. No. 1,326,820; Dec. 30; v. 269; p. 836.
- Tips, Mechanism for making stay-. F. E. Smith and F. W. Curnan. (Reissue.) No. 14,691; July 15; v. 264; p. 508.
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- Tire. W. Ashcroft. No. 1,315,001; Sept. 2; v. 266; p. 97.
- Tire. S. J. Barton. No. 1,321,879; Nov. 18; v. 268; p. 402.
- Tire. A. A. Brashear. No. 1,311,750; July 29; v. 264; p. 820.
- Tire. J. W. and G. F. Burgess. No. 1,313,254; Aug. 19; v. 265; p. 316.
- Tire. J. C. Chapman. No. 1,316,686; Sept. 23; v. 266; p. 480.
- Tire. J. H. Cooper. No. 1,301,230; Apr. 22; v. 261; p. 666.
- Tire. J. Faske. No. 1,326,444; Dec. 30; v. 269; p. 764.
- Tire. M. Freedman. No. 1,307,730; June 24; v. 263; p. 561.
- Tire. F. F. Green. No. 1,308,846; July 8; v. 264; p. 182.
- Tire. P. J. Hamill. No. 1,299,333; Apr. 1; v. 261; p. 163.
- Tire. P. L. Hedges. No. 1,295,494; Feb. 25; v. 259; p. 674.
- Tire. T. J. Jameson. No. 1,294,108; Feb. 11; v. 259; p. 295.
- Tire. H. Kaplan. No. 1,300,731; Apr. 15; v. 261; p. 524.
- Tire. S. Le Bere, Jr. No. 1,325,793; Dec. 23; v. 269; p. 606.
- Tire. J. E. MacKay. No. 1,324,165; Dec. 9; v. 269; p. 221.
- Tire. A. J. Meyer. No. 1,321,466; Nov. 11; v. 268; p. 373.
- Tire. E. M. Reid. No. 1,302,091; Apr. 29; v. 261; p. 862.
- Tire. W. J. Robinson. No. 1,291,156; Jan. 14; v. 258; p. 298.
- Tire. F. Schneible. No. 1,312,582; Aug. 12; v. 265; p. 168.
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- Tire. J. Summerson. No. 1,296,874; Mar. 11; v. 260; p. 275.
- Tire. H. L. von Trott. No. 1,303,998; May 20; v. 262; p. 349.
- Tire. W. J. Vincent. No. 1,303,995; May 20; v. 262; p. 348.
- Tire. H. B. Wallace. No. 1,318,119; Oct. 7; v. 267; p. 87.
- Tire. T. J. Whalen. No. 1,321,688; Nov. 11; v. 268; p. 315.
- Tire. T. W. Willerton. No. 1,319,549; Oct. 21; v. 267; p. 547.
- Tire-abrader. F. N. Cordell. No. 1,317,615; Sept. 30; v. 266; p. 692.
- Tire-adjuster. M. Kimbel. No. 1,307,131; June 17; v. 263; p. 419.
- Tire, Air-cooled vehicle-. T. C. Watkins. No. 1,324,944; Dec. 16; v. 269; p. 431.
- Tire-alarm. J. C. Long. No. 1,294,923; Feb. 18; v. 259; p. 521.
- Tire-alarm. O. F. Meyer and J. I. Payne. No. 1,298,538; Mar. 25; v. 260; p. 688.
- Tire-alarm. F. H. Valiton. No. 1,325,918; Dec. 23; v. 269; p. 629.
- Tire and adjustable rim, Resilient wheel. F. B. Turner. No. 1,307,164; June 17; v. 263; p. 424.
- Tire and rim tool. E. S. Reiland. No. 1,302,591; May 6; v. 262; p. 20.
- Tire and rim, Vehicle-wheel. L. De Holzer. No. 1,323,457; Dec. 2; v. 269; p. 44.
- Tire applying and removing device. W. C. Bohne. No. 1,320,829; Nov. 4; v. 268; p. 88.
- Tire-armor. R. A. Champion. No. 1,314,946; Sept. 2; v. 266; p. 86.
- Tire-armor. W. C. Francis. No. 1,300,946; Apr. 15; v. 261; p. 570.
- Tire-armor. A. E. Jennings. No. 1,304,057; May 20; v. 262; p. 360.
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- Tire-armor. A. D. Ramsey. No. 1,290,781; Jan. 7; v. 258; p. 185.
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- Tire attachment. G. W. Clements. No. 1,315,009; Sept. 2; v. 266; p. 98.
- Tire attachment. J. W. McKenzie. No. 1,308,434; July 1; v. 264; p. 77.
- Tire, Automobile. J. F. Beeselman. No. 1,301,998; Apr. 29; v. 261; p. 844.
- Tire, Automobile. L. M. Campi. No. 1,326,181; Dec. 30; v. 269; p. 715.
- Tire, Automobile. H. G. Cave. No. 1,325,141; Dec. 16; v. 269; p. 468.
- Tire, Automobile. V. Domke. No. 1,313,800; Aug. 19; v. 265; p. 418.
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- Tire, Automobile. W. C. Fleisher. No. 1,306,055; June 10; v. 263; p. 185.
- Tire, Automobile. G. W. Johnson. No. 1,298,731; Apr. 1; v. 261; p. 26.
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- Tire bead-cores, Method and apparatus for rolling. J. L. Butler. No. 1,318,643; Oct. 14; v. 267; p. 249.
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- Tire-building core and chuck. P. and B. De Mattia. No. 1,323,164; Nov. 25; v. 268; p. 695.
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- Tire-building machine. F. B. Converse. No. 1,316,356; Sept. 16; v. 266; p. 369.
- Tire-building machine. J. J. Convery. No. 1,320,319; Oct. 28; v. 267; p. 614.
- Tire-building machine. F. C. Morton. No. 1,298,767; Apr. 1; v. 261; p. 35.
- Tire-building machine. F. C. Morton. No. 1,298,768; Apr. 1; v. 261; p. 36.
- Tire-building machine. W. J. Steinle. No. 1,299,410; Apr. 1; v. 261; p. 180.
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- Tire-building machines, Stock-rack for. C. Kuentzel. No. 1,304,492; May 20; v. 262; p. 443.
- Tire-carrier. T. J. Collins and R. B. Jordan. No. 1,296,768; Mar. 11; v. 260; p. 251.
- Tire-carrier. G. C. Jensen. No. 1,307,863; June 24; v. 263; p. 585.
- Tire-carrier. C. T. Luke and J. R. Lilly. No. 1,325,993; Dec. 23; v. 269; p. 643.
- Tire-carrier. O. Mitchell. No. 1,304,696; May 27; v. 262; p. 520.
- Tire-carrier. E. Planche. No. 1,311,993; Aug. 5; v. 265; p. 26.
- Tire-carrier. J. F. Reilly. No. 1,292,054; Jan. 21; v. 258; p. 544.
- Tire-carrier. H. H. Scherff. No. 1,321,794; Nov. 11; v. 268; p. 335.
- Tire-carrier. J. V. Whitbeck. No. 1,309,268; July 8; v. 264; p. 261.
- Tire carrier, Auto. L. Rothschild. No. 1,311,463; July 29; v. 264; p. 767.
- Tire-carrier, Auxiliary. C. Thomas. No. 1,319,125; Oct. 21; v. 267; p. 365.
- Tire carrier, Spare. A. E. Feldman. No. 1,325,083; Dec. 16; v. 269; p. 457.
- Tire-casing. G. E. Hottenstein. No. 1,298,213; Mar. 25; v. 260; p. 618.
- Tire-casing. C. W. Miegel. No. 1,293,158; Feb. 4; v. 259; p. 42.
- Tire-casing. L. A. Page. No. 1,292,961; Jan. 28; v. 258; p. 782.
- Tire-casing. S. C. Rand. No. 1,316,594; Sept. 23; v. 266; p. 463.
- Tire-casing and making same. F. B. Carlisle. No. 1,294,330; Feb. 11; v. 259; p. 347.
- Tire-casing and manufacture. A. L. Case. No. 1,298,661; Apr. 1; v. 261; p. 9.
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- Tire-casing holder and shifter. J. W. Arthur. No. 1,309,058; July 8; v. 264; p. 223.
- Tire-casing patch. H. P. Pirtle. No. 1,300,769; Apr. 15; v. 261; p. 532.
- Tire casing, Pneumatic. E. K. Baker. No. 1,314,930; Sept. 2; v. 266; p. 83.
- Tire-casing-vulcanizing mold. F. E. Anderson and D. S. Erickson. No. 1,317,904; Oct. 7; v. 267; p. 46.
- Tire-casings, Apparatus for curing. P. P. Bongio and E. Stephenson. No. 1,307,079; June 17; v. 263; p. 40.
- Tire-casings, Apparatus for curing. P. P. Bongio and E. Stephenson. No. 1,323,573; Dec. 2; v. 269; p. 66.
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- Tire casings, Machine for building pneumatic. E. Hopkinson. No. 1,310,701; July 22; v. 264; p. 592.
- Tire-casings, Machine for making. F. B. Carlisle. No. 1,296,762; Mar. 11; v. 260; p. 250.
- Tire casings, Making pneumatic. E. H. Trump. No. 1,308,379; July 1; v. 264; p. 68.
- Tire casings or the like, Making pneumatic. E. K. Baker. No. 1,314,931; Sept. 2; v. 266; p. 83.
- Tire-casings, Reinforcement for. T. J. Converse. No. 1,313,792; Aug. 19; v. 265; p. 416.
- Tire-casings, Reinforcing for. A. H. Gruber. No. 1,306,334; June 10; v. 263; p. 240.
- Tire-chain. M. H. Forness. No. 1,317,568; Sept. 30; v. 266; p. 683.
- Tire-chain. F. A. Gahrng. No. 1,296,069; Mar. 4; v. 260; p. 58.
- Tire-chain. P. T. Hamm. No. 1,325,321; Dec. 16; v. 269; p. 502.
- Tire-chain. B. W. Hartley. No. 1,302,364; Apr. 29; v. 261; p. 913.
- Tire-chain. C. W. Hodges. No. 1,293,436; Feb. 4; v. 259; p. 107.
- Tire-chain. J. P. Payette. No. 1,320,411; Nov. 4; v. 268; p. 11.
- Tire-chain. J. Reichert. No. 1,292,879; Jan. 28; v. 258; p. 763.
- Tire chain, Automobile. E. F. Wells. No. 1,290,441; Jan. 7; v. 258; p. 103.
- Tire-chain clamp. H. H. Stoner. No. 1,301,521; Apr. 22; v. 261; p. 722.
- Tire-chain-fastening device. P. Cesen. No. 1,313,368; Aug. 19; v. 265; p. 337.
- Tire-chain, Non-skid. J. Frie. No. 1,318,064; Oct. 7; v. 267; p. 77.
- Tire-chain-repair device, Automobile. L. A. Duryea. No. 1,326,395; Dec. 30; v. 269; p. 755.
- Tire-chains, Clamp for. G. T. Kinney. No. 1,309,635; July 15; v. 264; p. 366.
- Tire-chains, Device for applying. H. E. Mortimer. No. 1,313,410; Aug. 19; v. 265; p. 344.
- Tire-chains, Fastening device for. F. Altergott, Jr. No. 1,310,171; July 15; v. 264; p. 464.
- Tire-chains, Hook for. J. G. Roberts. No. 1,314,832; Sept. 2; v. 266; p. 67.
- Tire circuit-closer, Deflated. T. Petersen. No. 1,323,547; Dec. 2; v. 269; p. 61.
- Tire-clamp. J. A. Williams. No. 1,300,538; Apr. 15; v. 261; p. 484.
- Tire construction. J. J. Luck. No. 1,323,079; Nov. 25; v. 268; p. 678.
- Tire construction. J. W. Price. No. 1,319,110; Oct. 21; v. 267; p. 363.
- Tire construction, Cushion. W. C. Martin. No. 1,292,345; Jan. 21; v. 258; p. 615.
- Tire construction for vehicle-wheels. C. H. Gunn. No. 1,308,416; July 1; v. 264; p. 74.
- Tire-core. D. A. Clark and C. E. Lowe. No. 1,303,256; May 13; v. 262; p. 176.
- Tire-core. E. Lookholter. No. 1,326,674; Dec. 30; v. 269; p. 808.
- Tire-core. E. Lookholter. No. 1,326,675; Dec. 30; v. 269; p. 808.
- Tire-core, Resilient. J. J. Wohlgemuth and F. Lilly. No. 1,307,800; June 24; v. 263; p. 573.
- Tire-cores, Making sheet-metal. D. A. Clark and C. E. Lowe. No. 1,316,272; Sept. 16; v. 266; p. 353.
- Tire cover, Auto. F. Schilke. No. 1,292,088; Jan. 21; v. 258; p. 553.
- Tire cover, Motor. J. H. Gill, J. D. Rea, and L. Sanderson. No. 1,300,601; Apr. 15; v. 261; p. 497.
- Tire-covers, Machine for the manufacture of. F. H. Mercer and H. F. H. Blease. No. 1,299,497; Apr. 8; v. 261; p. 229.
- Tire-covering. E. O'Neill and T. E. Comly. No. 1,295,579; Feb. 25; v. 259; p. 694.
- Tire, Cushion. C. C. Joy. No. 1,322,452; Nov. 18; v. 268; p. 509.
- Tire, Cushion. D. S. McFarren. No. 1,310,126; July 15; v. 264; p. 456.
- Tire, Cushion. T. A. Sprague. No. 1,299,051; Apr. 1; v. 261; p. 100.
- Tire, Cushion. W. E. Walker. No. 1,315,062; Sept. 2; v. 266; p. 108.
- Tire-deflating indicator. A. L. Stahl. No. 1,305,315; June 3; v. 263; p. 16.

- Tire-deflating tool. E. K. Hill. No. 1,319,280; Oct. 21; v. 267; p. 396.
- Tire, Detachable automobile-spring. L. W. La Bauve. No. 1,298,062; Mar. 25; v. 260; p. 585.
- Tire device, Antiskid. S. J. Kosht and J. A. Petrilla. No. 1,297,869; Mar. 18; v. 260; p. 518.
- Tire, Elastic. A. A. Crozier. No. 1,323,160; Nov. 25; v. 268; p. 693.
- Tire, Elastic non-inflatable. C. A. Morrison. No. 1,313,007; Aug. 12; v. 265; p. 251.
- Tire, Elastic non-inflatable. C. A. Morrison. No. 1,316,501; Sept. 16; v. 266; p. 397.
- Tire, Emergency-. M. Hines. No. 1,299,342; Apr. 1; v. 261; p. 165.
- Tire employing an inner tube, Vehicle-. E. Sterns. No. 1,324,282; Dec. 9; v. 269; p. 244.
- Tire enlarger, Automobile-. J. E. Johnson. No. 1,311,971; Aug. 5; v. 265; p. 22.
- Tire-expander. C. Reeder. No. 1,303,497; May 13; v. 262; p. 219.
- Tire fabric. A. H. Gruber. No. 1,317,701; Oct. 7; v. 267; p. 8.
- Tire fabric. K. W. Jappe. No. 1,318,876; Oct. 14; v. 267; p. 293.
- Tire-filler. B. Tamburello. No. 1,318,026; Oct. 7; v. 267; p. 70.
- Tire-fillers, Making. E. F. Aycock. No. 1,315,652; Sept. 9; v. 266; p. 224.
- Tire-filler, Sectional. F. L. Bailey and J. H. La Grant. No. 1,322,281; Nov. 18; v. 268; p. 477.
- Tire-finishing stand. A. J. Savage and H. I. Morris. No. 1,317,526; Sept. 30; v. 266; p. 674.
- Tire flaps, Machine for making pneumatic-. E. G. Hulse. No. 1,302,660; May 6; v. 262; p. 34.
- Tire for vehicle-wheels and making the same, Cushion or solid. J. E. Hale. No. 1,319,864; Oct. 28; v. 267; p. 530.
- Tire for vehicle-wheels, Resilient. H. L. Harding. No. 1,294,796; Feb. 18; v. 259; p. 491.
- Tire for vehicles. W. E. Muntz. No. 1,307,208; June 17; v. 263; p. 432.
- Tire for vehicles, Cushion-. B. E. Chute. No. 1,309,460; July 8; v. 264; p. 296.
- Tire for vehicles, Pneumatic. H. Bretscher. No. 1,307,036; June 17; v. 263; p. 402.
- Tire for wheels of vehicles and forming same, Elastic. A. D. Daigne. No. 1,316,773; Sept. 23; v. 266; p. 496.
- Tire-forming mandrel. D. A. Clark and C. E. Lowe. No. 1,316,274; Sept. 16; v. 266; p. 353.
- Tire-gage. H. M. Shwab. No. 1,302,443; Apr. 29; v. 261; p. 930.
- Tire grip-chain. F. F. Griffin. No. 1,324,395; Dec. 9; v. 269; p. 266.
- Tire grooving and finishing machine. R. H. Keaton. No. 1,304,485; May 20; v. 262; p. 442.
- Tire-guard. C. A. Nethercutt. No. 1,312,344; Aug. 5; v. 265; p. 91.
- Tire-guard for wheels. J. N. Disselkoen. No. 1,321,992; Nov. 18; v. 268; p. 422.
- Tire-handling machine. H. I. Morris. No. 1,318,685; Oct. 14; v. 267; p. 257.
- Tire-healing composition. W. F. Traves. No. 1,317,111; Sept. 23; v. 266; p. 559.
- Tire-holder. H. M. Daggett. No. 1,295,442; Feb. 25; v. 259; p. 662.
- Tire-holder. J. C. Jones. No. 1,326,739; Dec. 30; v. 269; p. 830.
- Tire-holder. P. P. McPeak and B. A. Rains. No. 1,317,584; Sept. 30; v. 266; p. 686.
- Tire-holder. H. R. Morgan. No. 1,315,147; Sept. 2; v. 266; p. 123.
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- Tire holder for vehicles, Spare-. C. J. Landgraf. No. 1,292,813; Jan. 28; v. 258; p. 747.
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- Tire-holding means. J. T. Clark. No. 1,319,991; Oct. 28; v. 267; p. 553.
- Tire-holding rims, Securing means for. J. Kelsey. No. 1,311,126; July 22; v. 264; p. 671.
- Tire-inflating and pressure-indicating device. O. H. Meyers. No. 1,322,196; Nov. 18; v. 268; p. 460.
- Tire-inflating mechanism. W. G. Cumming. No. 1,312,074; Aug. 5; v. 265; p. 42.
- Tire-inflation valve. J. W. Potter. No. 1,297,239; Mar. 11; v. 260; p. 355.
- Tire, Inner. H. M. Henning. No. 1,298,945; Apr. 1; v. 261; p. 76.
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- Tire-making and apparatus therefor. E. Hopkinson. No. 1,312,505; Aug. 5; v. 265; p. 122.
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- Tire-making machines, Fabric-laying attachment for. J. E. Thropp. No. 1,321,494; Nov. 11; v. 268; p. 278.
- Tire-making machinery, Stitcher apparatus for. W. B. Harsel. No. 1,319,333; Oct. 21; v. 267; p. 406.
- Tire-making structure. W. C. Tyler. No. 1,298,124; Mar. 25; v. 260; p. 598.
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- Tire-mold. H. H. Forrest. No. 1,312,438; Aug. 5; v. 265; p. 110.
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- Tire-molds, Apparatus for forming. B. Granville. No. 1,299,456; Apr. 8; v. 261; p. 219.
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- Tire, Pneumatic. H. G. Imhoff. No. 1,312,482; Aug. 5; v. 265; p. 118.
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- Tire-protector device. A. W. Hayward. No. 1,305,101; May 27; v. 262; p. 595.
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- Tire, Resilient wheel. C. P. O'Brien. No. 1,304,801; May 27; v. 262; p. 539.
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- Tire-spreader. D. C. Woodworth. No. 1,325,552; Dec. 23; v. 269; p. 562.
- Tire, Spring. V. Deisenhofer. No. 1,290,113; Jan. 7; v. 258; p. 24.
- Tire, Spring. E. B. Esther. No. 1,306,109; June 10; v. 263; p. 109.
- Tire, Spring. A. A. Girard. No. 1,291,477; Jan. 14; v. 258; p. 373.
- Tire, Spring. Z. Kutchuk. No. 1,308,908; July 8; v. 264; p. 193.
- Tire, Spring. E. S. Morris. No. 1,322,258; Nov. 18; v. 268; p. 472.
- Tire, Spring. F. L. Murdock. No. 1,303,366; May 13; v. 262; p. 195.
- Tire, Spring. E. S. Smith. No. 1,302,477; Apr. 29; v. 261; p. 935.
- Tire-stapling machine. A. A. Ewald. No. 1,312,026; Aug. 5; v. 265; p. 33.
- Tire-stem cap. R. A. Campbell. No. 1,309,795; July 15; v. 264; p. 396.
- Tire structure. J. G. Smith. No. 1,317,831; Oct. 7; v. 267; p. 33.
- Tire structure, Pneumatic. J. R. Gammeter. No. 1,291,676; Jan. 14; v. 258; p. 420.
- Tire-support. J. Biggs. No. 1,292,687; Jan. 28; v. 258; p. 719.
- Tire-tester, Safety. E. W. Phillips. No. 1,323,909; Dec. 2; v. 269; p. 129.
- Tire testing and inflating gage. H. A. Scott. No. 1,318,113; Oct. 7; v. 267; p. 85.
- Tire-tool. J. Ayling. No. 1,326,830; Dec. 30; v. 269; p. 838.
- Tire-tool. J. Bjornlie. No. 1,305,837; June 3; v. 263; p. 20.
- Tire-tool. R. W. Bush. No. 1,300,924; Apr. 15; v. 261; p. 565.
- Tire-tool. R. Dressmann. No. 1,325,281; Dec. 16; v. 269; p. 494.
- Tire-tool. C. W. Keenum. No. 1,290,227; Jan. 7; v. 258; p. 51.
- Tire-tool. J. H. Robson. No. 1,301,746; Apr. 22; v. 261; p. 765.
- Tire-tool. G. A. Safstrom. No. 1,290,787; Jan. 7; v. 258; p. 186.
- Tire-tool. G. A. Strobeck. No. 1,298,820; Apr. 1; v. 261; p. 47.
- Tire-tool. P. G. Taylor. No. 1,323,927; Dec. 2; v. 269; p. 132.
- Tire-tool. M. H. Tuttle. No. 1,302,734; May 6; v. 262; p. 48.
- Tire-tool and lifting-jack, Combination. J. C. Rummer. No. 1,325,414; Dec. 16; v. 269; p. 518.

- Tire tool, Pneumatic. J. and W. L. Peterson. No. 1,317,143; Sept. 23; v. 266; p. 565.
- Tire traction-lug. G. W. Smith. No. 1,315,688; Sept. 9; v. 266; p. 230.
- Tire-tread. H. M. Lambert. No. 1,309,440; July 8; v. 264; p. 293.
- Tire-tread. L. Schissel. No. 1,324,695; Dec. 9; v. 269; p. 323.
- Tire tread, Automobile. J. F. Loughran. No. 1,292,826; Jan. 28; v. 258; p. 750.
- Tire tread, Detachable automobile. L. T. Sintzel. No. 1,311,720; July 29; v. 264; p. 815.
- Tire-tread, Non-skid. O. C. Pennington. No. 1,293,901; Feb. 11; v. 259; p. 246.
- Tire tread, Pneumatic. T. Dunn. No. 1,315,292; Sept. 9; v. 266; p. 160.
- Tire-tread stripper. G. E. Blaylock. No. 1,320,728; Nov. 4; v. 268; p. 69.
- Tire-treads, Preparing. D. A. Kendall. No. 1,290,576; Jan. 7; v. 258; p. 135.
- Tire-tube deflator, Automatic. C. J. Powell. No. 1,326,465; Dec. 30; v. 269; p. 768.
- Tire-tube protector, Pneumatic. W. H. Thompson. No. 1,294,573; Feb. 18; v. 259; p. 439.
- Tire-tubes, Making puncture-proof. G. T. Armstrong. No. 1,311,738; July 29; v. 264; p. 818.
- Tire tubes, Mandrel for pneumatic. D. A. Clark and C. E. Lowe. No. 1,316,275; Sept. 16; v. 266; p. 354.
- Tire, Two-part interlocking. B. E. Bliss. No. 1,311,309; July 29; v. 264; p. 738.
- Tire-unwrapping machine. C. Brown. No. 1,306,098; June 10; v. 263; p. 193.
- Tire-valve. R. H. Henemier. No. 1,296,516; Mar. 4; v. 260; p. 156.
- Tire-valve. R. H. Henemier. No. 1,296,517; Mar. 4; v. 260; p. 157.
- Tire-valve. E. E. Holt. No. 1,321,791; Nov. 11; v. 268; p. 334.
- Tire-valve. H. P. Kraft. No. 1,290,582; Jan. 7; v. 258; p. 137.
- Tire-valve. H. P. Kraft. No. 1,305,552; June 3; v. 263; p. 61.
- Tire-valve. H. P. Kraft. No. 1,307,980; June 24; v. 263; p. 607.
- Tire-valve. H. P. Kraft. No. 1,322,583; Nov. 25; v. 268; p. 585.
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- Tire valve, Pneumatic. C. B. Earnheart. No. 1,305,264; June 3; v. 263; p. 7.
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- Tire-valves, Dust-cap for. C. A. Herle. No. 1,301,938; Apr. 29; v. 261; p. 833.
- Tire-valves, Dust-cap for. H. P. Kraft. No. 1,319,155; Oct. 21; v. 267; p. 373.
- Tire-valves, Dust-cap for. J. T. Ward. No. 1,304,424; May 20; v. 262; p. 430.
- Tire-valves or the like, Dust-cap for. H. P. Kraft. No. 1,295,766; Feb. 25; v. 259; p. 737.
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- Tire, Vehicle. A. L. Cole. No. 1,305,196; May 27; v. 262; p. 614.
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- Tire, Vehicle. J. D. Cooper. No. 1,325,233; Dec. 16; v. 269; p. 485.
- Tire, Vehicle. A. Cruzan. No. 1,298,915; Apr. 1; v. 261; p. 69.
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- Tires, Making pneumatic. E. Hopkinson. No. 1,305,801; June 3; v. 263; p. 108.
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- Tires, Method of vulcanizing. F. T. Roberts. No. 1,304,909; May 27; v. 262; p. 559.
- Tires, Mileage-indicator for. J. W. and R. A. Watson. No. 1,292,179; Jan. 21; v. 258; p. 575.
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- Tires, Pressure-gage for vehicle. H. L. West. No. 1,300,534; Apr. 15; v. 261; p. 483.
- Tires, Protective armor for pneumatic. R. C. Purvis. No. 1,299,225; Apr. 1; v. 261; p. 138.
- Tires, Protective covering for pneumatic. C. F. F. Allan. No. 1,324,368; Dec. 9; v. 269; p. 261.
- Tires, Protector for pneumatic. D. B. Freel. No. 1,311,340; July 29; v. 264; p. 744.
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- Tires, Puncture-preventing material for. T. V. Edmunds. No. 1,322,550; Nov. 25; v. 268; p. 579.
- Tires, Puncture-proof lining for pneumatic. W. H. Pritchett. No. 1,302,970; May 6; v. 262; p. 93.
- Tires, Puncture-proof tread-block for pneumatic. A. Rosenberg and A. H. Rosenthal. No. 1,292,519; Jan. 28; v. 258; p. 677.
- Tires, Quick tire-patch for pneumatic. C. O. Duffy. No. 1,290,128; Jan. 7; v. 258; p. 28.
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- Tires, Reinforcing fabric strip for. T. Branson. No. 1,300,696; Apr. 15; v. 261; p. 517.
- Tires, Relief-valve for. C. A. Hussey. No. 1,325,019; Dec. 16; v. 269; p. 445.
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- Tires, Retreading. F. E. McEwen. No. 1,306,602; June 10; v. 263; p. 289.
- Tires, Sectional casing for pneumatic. C. H. Gunn. No. 1,312,978; Aug. 12; v. 265; p. 246.
- Tires, Semiwood wheel for use with pneumatic. E. K. Baker. No. 1,324,293; Dec. 9; v. 269; p. 246.
- Tires, Storage-case for pneumatic. W. W. Hadley. No. 1,319,388; Oct. 21; v. 267; p. 416.
- Tires, Telltale device for. H. H. Roberts, Jr. (Reissue). No. 14,699; July 29; v. 264; p. 842.
- Tires to vehicle-wheels, Apparatus for applying. G. Boesch. No. 1,312,608; Aug. 12; v. 265; p. 174.
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- Tires, Traction and antiskid device for truck-. D. Willis and E. H. Martens. No. 1,306,730; June 17; v. 263; p. 345.
- Tires, Tread for pneumatic. R. W. Twombly. No. 1,317,185; Sept. 30; v. 266; p. 609.
- Tires, Tube for pneumatic. F. T. Roberts. No. 1,310,438; July 22; v. 264; p. 544.
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- Tires, Valve for pneumatic. I. Kornetsky and D. P. Sullivan. No. 1,290,243; Jan. 7; v. 258; p. 55.
- Tires, Vulcanizer for cord. E. G. Templeton. No. 1,317,669; Sept. 30; v. 266; p. 702.
- Tires, Wheel-rim for pneumatic. T. Sloper. No. 1,294,313; Feb. 11; v. 259; p. 343.
- Titanium pigment and making same. A. P. Jaeger. No. 1,317,165; Sept. 30; v. 266; p. 605.
- Title examiners, Means employed in key systems for. N. W. Wheeler. No. 1,313,617; Aug. 19; v. 265; p. 384.
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- Toaster and boiler-support, Combined. L. A. Lefrancois. No. 1,321,318; Nov. 11; v. 268; p. 245.
- Toaster and warmer. M. L. De Witt. No. 1,297,549; Mar. 18; v. 260; p. 450.
- Toaster, Bread-. A. A. Hill. No. 1,297,848; Mar. 18; v. 260; p. 514.
- Toasting device. J. W. and A. E. Bowers. No. 1,300,565; Apr. 15; v. 261; p. 490.
- Tobacco blend and making same. C. W. Toms. No. 1,325,060; Dec. 16; v. 269; p. 453.
- Tobacco-box and cigarette-maker, Combined. J. A. H. Castonguay. No. 1,295,269; Feb. 25; v. 259; p. 622.
- Tobacco-can. R. Drake. No. 1,305,256; June 3; v. 263; p. 5.
- Tobacco-cartridge holder. R. J. Reynolds. No. 1,292,647; Jan. 28; v. 258; p. 708.
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- Tobacco-clipper. J. D. Stauffer. No. 1,304,917; May 27; v. 262; p. 561.
- Tobacco-cutter. J. H. Otto and E. C. Young. No. 1,316,056; Sept. 16; v. 266; p. 312.
- Tobacco-cutting machine. Leaf. H. Rosenthal. (Reissue). No. 14,601; Feb. 25; v. 259; p. 754.
- Tobacco, Denarcotizing. H. Brinkhaus. No. 1,304,539; May 27; v. 262; p. 491.
- Tobacco-extractor. H. J. Penn. No. 1,311,618; July 29; v. 264; p. 796.
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- Tobacco-lath. C. Cooper. No. 1,311,757; July 29; v. 264; p. 821.
- Tobacco-machine. J. O. Morris. No. 1,316,054; Sept. 16; v. 266; p. 312.
- Tobacco, Machine for measuring and packing. H. de Escobales. No. 1,320,038; Oct. 28; v. 267; p. 562.
- Tobacco-pipe. E. Altmann. No. 1,302,270; Apr. 29; v. 261; p. 895.
- Tobacco-pipe. P. F. Campbell. No. 1,310,856; July 22; v. 264; p. 621.
- Tobacco-pipe. D. Delby. No. 1,313,796; Aug. 19; v. 265; p. 417.
- Tobacco-pipe. C. Hurst. No. 1,302,047; Apr. 29; v. 261; p. 854.
- Tobacco-pipe. R. J. Reynolds. No. 1,292,648; Jan. 28; v. 258; p. 708.
- Tobacco-pipe. F. A. Sebenste. No. 1,290,791; Jan. 7; v. 258; p. 187.
- Tobacco-pipe. J. N. Whitehouse. No. 1,308,612; July 1; v. 264; p. 110.
- Tobacco, Pipe for regulating the smoking of. W. H. Neal. No. 1,297,895; Mar. 18; v. 260; p. 524.
- Tobacco-pouch. J. L. McHugh. No. 1,310,869; July 22; v. 264; p. 623.
- Tobacco-press. S. B. Minnich. No. 1,306,604; June 10; v. 263; p. 289.
- Tobacco-products package. H. de Escobales. No. 1,295,461; Feb. 25; v. 259; p. 666.
- Tobacco-products packaging. T. J. Maloney. No. 1,291,984; Jan. 21; v. 258; p. 527.
- Tobacco, Removing nicotine from. R. Sayre and E. Yanoovsky. No. 1,294,310; Feb. 11; v. 259; p. 342.
- Tobacco-stemmer attachment. G. F. Eckart. No. 1,295,452; Feb. 25; v. 259; p. 664.
- Tobacco-stemming machine. C. V. Strickland. No. 1,301,193; Apr. 22; v. 261; p. 659.
- Tobacco-stick. G. T. Sullivan. No. 1,322,648; Nov. 25; v. 268; p. 598.
- Tobacco-stripper. W. H. Seaver. No. 1,311,183; July 29; v. 264; p. 714.
- Toe-cap, Adjustable. A. T. Carroll. No. 1,317,427; Sept. 30; v. 266; p. 655.

- Toe-dog. C. A. Babcock. No. 1,319,684; Oct. 28; v. 267; p. 495.
- Toe-spreader. F. Shirley. No. 1,305,749; June 3; v. 263; p. 98.
- Toggle. J. Karitzky. No. 1,291,541; Jan. 14; v. 258; p. 387.
- Toggle-bolt. F. Schilling, Sr. No. 1,316,857; Sept. 23; v. 266; p. 511.
- Toilet. W. Koziol. No. 1,311,405; July 29; v. 264; p. 756.
- Toilet accessory. J. Hayes. No. 1,302,038; Apr. 29; v. 261; p. 852.
- Toilet apparatus. C. H. Hapgood. No. 1,305,358; June 3; v. 263; p. 24.
- Toilet article. L. Hauser. No. 1,316,303; Sept. 16; v. 266; p. 359.
- Toilet article. R. F. Hobbs. (Reissue.) No. 1,471,0; Aug. 19; v. 265; p. 432.
- Toilet article. R. F. Hobbs. No. 1,326,265; Dec. 30; v. 269; p. 731.
- Toilet article. S. Mackiewicz. No. 1,298,750; Apr. 1; v. 261; p. 31.
- Toilet-article carrier. L. W. Kaestner. No. 1,295,174; Feb. 25; v. 259; p. 600.
- Toilet-article container. A. R. Barracks. No. 1,321,274; Nov. 11; v. 268; p. 236.
- Toilet-box. A. Garbell. No. 1,317,918; Oct. 7; v. 267; p. 49.
- Toilet, Camp-. J. H. Wittmann. No. 1,306,041; June 10; v. 263; p. 183.
- Toilet-closet-seat protector-cover. C. B. Sloan. No. 1,293,955; Feb. 11; v. 259; p. 268.
- Toilet-lock, Automatic. J. Taylor. No. 1,292,146; Jan. 21; v. 258; p. 568.
- Toilet partition. C. A. Betz. No. 1,304,013; May 20; v. 262; p. 352.
- Toilet partition. A. S. Hughes. No. 1,311,229; July 29; v. 264; p. 723.
- Toilet, Sanitary. O. C. Currie. No. 1,291,428; Jan. 14; v. 258; p. 362.
- Toilet-seat. A. Zabawa. No. 1,294,747; Feb. 18; v. 259; p. 480.
- Toilet-seat. Child's. M. E. Ream. No. 1,304,095; May 20; v. 262; p. 366.
- Toilet-seat cover and container. D. L. Horwitz. No. 1,291,001; Jan. 14; v. 258; p. 262.
- Toilet-seat cover, Sanitary. F. R. Quackenbush. No. 1,304,511; May 20; v. 262; p. 447.
- Toilet-seat, Sanitary. C. Rigby. No. 1,296,220; Mar. 4; v. 260; p. 93.
- Toilet-seat to the seat of an ordinary toilet, Device for attaching child's nursery. A. L. Adeo. No. 1,298,901; Mar. 11; v. 260; p. 281.
- Toilet utensil. L. F. Donnelly. No. 1,312,896; Aug. 12; v. 265; p. 229.
- Toilets, Flushing and cover-operating mechanism for. P. H. Sager. No. 1,313,740; Aug. 19; v. 265; p. 406.
- Toilets, Flushing device for. A. Sigouin. No. 1,306,285; June 10; v. 263; p. 231.
- Token-holder. G. R. Williams. No. 1,309,991; July 15; v. 264; p. 432.
- Tolling-machine. R. Cook. No. 1,291,416; Jan. 14; v. 258; p. 359.
- Toluene. Manufacture of. B. T. Brooks. No. 1,324,143; Dec. 9; v. 269; p. 217.
- Toluene sulfonic acids, Manufacture of. J. A. Ambler and H. D. Gibbs. No. 1,292,950; Jan. 28; v. 258; p. 780.
- Tone-modifier. H. E. White. No. 1,304,005; May 20; v. 262; p. 350.
- Tone-regulator. G. A. Frost. No. 1,307,664; June 24; v. 263; p. 548.
- Tongs. N. C. Sorensen. No. 1,301,185; Apr. 22; v. 261; p. 657.
- Tongs, Clinker-. J. W. Brown. No. 1,313,788; Aug. 19; v. 265; p. 416.
- Tongs, Curling-. W. H. Laraway and L. V. Lillibridge. No. 1,323,598; Dec. 2; v. 269; p. 70.
- Tongs, Cuspidor-. T. H. Leaton. No. 1,301,852; Apr. 29; v. 261; p. 816.
- Tongs, Ear-tag. H. Spurling. No. 1,320,427; Nov. 4; v. 268; p. 13.
- Tongs for meat-blocks, Clamping or holding. T. Piechowicz. No. 1,295,790; Feb. 25; v. 259; p. 743.
- Tongs for picking up potatoes and the like. A. Hossfeld. No. 1,316,157; Sept. 16; v. 266; p. 331.
- Tongs, Fruit-squeezing. G. C. Keppeler. No. 1,305,806; June 3; v. 263; p. 109.
- Tongs, Gripping-. A. C. Burlingame. No. 1,321,594; Nov. 11; v. 268; p. 297.
- Tongs, Ingot-. A. A. Hanlan. No. 1,306,255; June 10; v. 263; p. 226.
- Tongs, Lifting-. F. E. Lichtenthaler. No. 1,298,064; Mar. 25; v. 260; p. 585.
- Tongs, Pipe-. C. E. Reed. No. 1,316,185; Sept. 16; v. 266; p. 337.
- Tongs, Plate-. A. Smith. No. 1,312,142; Aug. 5; v. 265; p. 55.
- Tongs, Timber-. J. J. Verrette and A. W. White. No. 1,307,887; June 24; v. 263; p. 589.
- Tongue support, Wagon-. H. Mathews. No. 1,316,493; Sept. 16; v. 266; p. 395.
- Tongue, Wagon-. J. Hendrickson. No. 1,291,509; Jan. 14; v. 258; p. 380.
- Tongue, Wagon-. V. Mikulecky. No. 1,310,244; July 15; v. 264; p. 477.
- Tongues, Making pin-. G. W. Dover. No. 1,306,049; June 10; v. 263; p. 184.
- Tonsil-enucleator. J. G. Rohrig. No. 1,323,104; Nov. 25; v. 268; p. 683.
- Tonsil-remover. V. Mueller. No. 1,297,389; Mar. 18; v. 260; p. 417.
- Tonsillotome. E. B. Swerdfeger. No. 1,291,244; Jan. 14; v. 258; p. 318.
- Tonsillotome. W. C. Toll. No. 1,316,003; Sept. 16; v. 266; p. 303.
- Tool. J. Baldwin. No. 1,320,825; Nov. 4; v. 268; p. 88.
- Tool. A. G. Bouley. No. 1,297,072; Mar. 11; v. 260; p. 320.
- Tool. L. D. Clark. No. 1,321,364; Nov. 11; v. 268; p. 254.
- Tool. A. J. Eusteness. No. 1,314,072; Aug. 26; v. 265; p. 503.
- Tool. P. L. Fowler. No. 1,293,073; Feb. 4; v. 259; p. 24.
- Tool. W. F. Gannon. No. 1,303,788; May 13; v. 262; p. 272.
- Tool. E. J. Grigsby. No. 1,291,851; Jan. 21; v. 258; p. 492.
- Tool. J. R. Jones and J. C. Culver. No. 1,296,401; Mar. 4; v. 260; p. 132.
- Tool. J. L. Mayhew. No. 1,320,777; Nov. 4; v. 268; p. 78.
- Tool. T. McCray. No. 1,303,090; May 6; v. 262; p. 116.
- Tool. W. E. Nagle. No. 1,314,690; Sept. 2; v. 266; p. 41.
- Tool. S. K. Nomeland. No. 1,307,018; June 17; v. 263; p. 398.
- Tool. J. G. Robinson. No. 1,324,410; Dec. 9; v. 269; p. 269.
- Tool. D. B. Swickard. No. 1,320,103; Oct. 28; v. 267; p. 574.
- Tool. J. K. Taylor. No. 1,313,758; Aug. 19; v. 265; p. 410.
- Tool. J. W. Webb. No. 1,316,525; Sept. 16; v. 266; p. 402.
- Tool. W. H. Wilson. No. 1,303,439; May 13; v. 262; p. 208.
- Tool, Abrasive. F. R. Merritt. No. 1,308,093; July 1; v. 264; p. 16.
- Tool, Adjustable boring-. F. P. Lovejoy. No. 1,316,731; Sept. 23; v. 266; p. 489.
- Tool, Adjustable boring-. J. Maier. No. 1,324,459; Dec. 9; v. 269; p. 279.
- Tool adjustable in taper. W. H. Gray, B. A. Hurd, and E. J. Gibon. No. 1,309,571; July 8; v. 264; p. 317.
- Tool and grinding the blades thereof, Expandable. A. A. Martell. No. 1,321,838; Nov. 18; v. 268; p. 394.
- Tool and implement handle. W. E. Richards. No. 1,322,618; Nov. 25; v. 268; p. 592.
- Tool and tool-holder. E. M. Forbes. No. 1,309,281; July 8; v. 264; p. 263.
- Tool-bag. M. Miller and S. H. Golding. No. 1,296,421; Mar. 4; v. 260; p. 136.
- Tool, Bending-. R. M. Hawes. No. 1,324,670; Dec. 9; v. 269; p. 319.
- Tool, Boring-. G. C. Beck. No. 1,326,169; Dec. 30; v. 269; p. 712.
- Tool, Boring-. W. C. Beckwith. No. 1,316,217; Sept. 16; v. 266; p. 343.
- Tool, Boring-. F. Esa. No. 1,316,435; Sept. 16; v. 266; p. 384.
- Tool-box. L. M. Gau. No. 1,318,067; Oct. 7; v. 267; p. 66.
- Tool-box. N. Scholtes. No. 1,322,354; Nov. 18; v. 268; p. 490.
- Tool, Calking-. L. Paulero. No. 1,318,689; Oct. 14; v. 267; p. 258.
- Tool-carrier. W. A. Wood. No. 1,326,887; Dec. 30; v. 269; p. 848.
- Tool-casing, Power-operated. A. R. Petterson and A. P. Werme. No. 1,307,146; June 17; v. 263; p. 421.
- Tool, Centering-. J. R. Parks. No. 1,309,654; July 15; v. 264; p. 370.
- Tool, Combination-. R. C. Boswell. No. 1,308,694; July 1; v. 264; p. 126.
- Tool, Combination-. R. C. Hayden. No. 1,306,896; June 17; v. 263; p. 376.
- Tool, Combination-. W. R. Jooss. No. 1,321,312; Nov. 11; v. 268; p. 244.
- Tool, Combination-. C. H. Klein. No. 1,318,088; Oct. 7; v. 267; p. 81.
- Tool, Combination-. C. T. Madsen. No. 1,305,821; June 3; v. 263; p. 111.
- Tool, Combination-. T. J. McAdams. No. 1,324,509; Dec. 9; v. 269; p. 289.
- Tool, Combination-. J. U. Rosenholm. No. 1,324,411; Dec. 9; v. 269; p. 269.
- Tool, Combination-. R. W. Seelye. No. 1,326,108; Dec. 23; v. 269; p. 665.
- Tool, Combination-. A. G. Silva. No. 1,317,048; Sept. 23; v. 266; p. 547.
- Tool, Combination-. L. Springer. No. 1,293,966; Feb. 11; v. 259; p. 261.



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- Tool, Combination hand-. G. B. Caldwell. No. 1,305,587; June 3; v. 263; p. 69.
- Tool, Combined. N. J. Hoag. No. 1,318,079; Oct. 7; v. 267; p. 79.
- Tool, Combined. J. L. Hofmann. No. 1,323,056; Nov. 25; v. 268; p. 674.
- Tool, Compound. E. J. Scarseth. No. 1,324,323; Dec. 9; v. 269; p. 251.
- Tool, Compound. S. Stepanian. No. 1,321,777; Nov. 11; v. 268; p. 332.
- Tool, Cotter-pin-extracting. R. W. Bahre. No. 1,316,409; Sept. 16; v. 266; p. 379.
- Tool, Counterboring-. M. J. and R. B. Huggins. No. 1,312,033; Aug. 5; v. 265; p. 34.
- Tool, Counterboring-. A. W. Tacke. No. 1,316,201; Sept. 16; v. 266; p. 339.
- Tool, Decorating-. J. Moscini. No. 1,304,795; May 27; v. 262; p. 538.
- Tool, Dismantling-. E. F. Wilkinson. No. 1,311,029; July 22; v. 264; p. 653.
- Tool-dressing device. C. G. Olson. No. 1,323,486; Dec. 2; v. 269; p. 50.
- Tool-driver. L. S. Starrett. No. 1,304,714; May 27; v. 262; p. 523.
- Tool-driver, Spiral. W. J. Bauer. No. 1,290,489; Jan. 7; v. 258; p. 115.
- Tool-driving mechanism, Hand-. A. E. Bergey. No. 1,292,420; Jan. 28; v. 258; p. 652.
- Tool, Electrically-heated. F. Kuhn, J. G. Spiess, and J. A. Hand. No. 1,316,368; Sept. 16; v. 266; p. 371.
- Tool-feeding mechanism. H. A. Pedrick. No. 1,307,266; June 17; v. 263; p. 443.
- Tool for harvesting cabbage-heads. A. N. Allen. No. 1,314,999; Sept. 2; v. 266; p. 97.
- Tool for securing connecting parts of battery-plates. I. M. Noble and W. E. Gossling. No. 1,302,699; May 6; v. 262; p. 41.
- Tool, Garden-. G. K. Caviness. No. 1,292,704; Jan. 28; v. 258; p. 722.
- Tool, Garden-. H. C. Mundy and E. Harrison. No. 1,318,200; Aug. 12; v. 265; p. 289.
- Tool, Gripping-. J. D. Noyes. No. 1,311,991; Aug. 5; v. 265; p. 26.
- Tool, Ground-working. F. O. Miner. No. 1,303,570; May 13; v. 262; p. 232.
- Tool, Grouting-. J. G. Bricker. No. 1,306,135; June 10; v. 263; p. 200.
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- Tool-guiding jig. J. Blaustein. No. 1,293,009; Feb. 4; v. 259; p. 9.
- Tool, Hand-. W. A. Bernard. No. 1,305,513; June 3; v. 263; p. 53.
- Tool, Hand-. G. W. Hazel. No. 1,305,899; June 3; v. 263; p. 126.
- Tool, Hand-. F. A. Lewis. No. 1,324,258; Dec. 9; v. 269; p. 239.
- Tool, Hand-. H. Sommers and S. Scheraga. No. 1,315,644; Sept. 9; v. 266; p. 222.
- Tool-handle. J. E. Anderson. No. 1,301,802; Apr. 29; v. 261; p. 807.
- Tool-handle. B. W. Decatur. No. 1,302,323; Apr. 29; v. 261; p. 905.
- Tool-handle. E. C. McMahon. No. 1,301,287; Apr. 22; v. 261; p. 678.
- Tool-handle. R. E. Perrine. No. 1,317,455; Sept. 30; v. 266; p. 660.
- Tool-handle. C. Smith. No. 1,320,181; Oct. 28; v. 267; p. 588.
- Tool-handle, Adjustable. R. D. Maddox. No. 1,296,416; Mar. 4; v. 260; p. 135.
- Tool-handle-attaching means. J. F. Burke. No. 1,305,688; June 3; v. 263; p. 87.
- Tool-handle brace. J. A. Stephenson. No. 1,295,628; Feb. 25; v. 259; p. 705.
- Tool-handle fastener. F. Ziemer. No. 1,312,819; Aug. 12; v. 265; p. 214.
- Tool handle, Pneumatic. M. C. Hutchinson. No. 1,315,554; Sept. 9; v. 266; p. 207.
- Tool, Handling-. C. P. Backlund. No. 1,322,864; Nov. 25; v. 268; p. 637.
- Tool-head fastening. J. S. Climenson. No. 1,294,236; Feb. 11; v. 259; p. 326.
- Tool-heater. E. Juergens. No. 1,319,288; Oct. 21; v. 267; p. 397.
- Tool-holder. J. B. H. Côté. No. 1,326,254; Dec. 30; v. 269; p. 729.
- Tool-holder. E. N. Davey. No. 1,319,950; Oct. 28; v. 267; p. 546.
- Tool-holder. J. A. Giles. No. 1,324,809; Dec. 16; v. 269; p. 407.
- Tool-holder. G. C. W. Goss. No. 1,290,541; Jan. 7; v. 258; p. 128.
- Tool-holder. G. C. W. Goss. No. 1,290,542; Jan. 7; v. 258; p. 128.
- Tool-holder. M. Hacker. No. 1,298,201; Mar. 25; v. 260; p. 615.
- Tool-holder. G. W. Henry. No. 1,311,445; July 29; v. 264; p. 764.
- Tool-holder. A. Hunter. No. 1,313,597; Aug. 19; v. 265; p. 380.
- Tool-holder. C. G. Ihrmark. No. 1,311,897; Aug. 5; v. 265; p. 9.
- Tool-holder. P. B. Johnson. No. 1,303,205; May 6; v. 262; p. 138.
- Tool-holder. G. F. Krieger. No. 1,315,134; Sept. 2; v. 266; p. 120.
- Tool-holder. G. W. Larson. No. 1,290,247; Jan. 7; v. 258; p. 56.
- Tool-holder. H. O. Lehman. No. 1,320,698; Nov. 4; v. 268; p. 63.
- Tool-holder. A. Marti and A. Oesch. (Reissue.) No. 14,664; June 10; v. 263; p. 303.
- Tool-holder. T. O. Martin. No. 1,304,998; May 27; v. 262; p. 557.
- Tool-holder. M. Movshovitch. No. 1,307,017; June 17; v. 263; p. 398.
- Tool-holder. J. F. Prax. No. 1,315,640; Sept. 9; v. 266; p. 222.
- Tool-holder. C. B. Prideaux. No. 1,308,681; July 1; v. 264; p. 123.
- Tool-holder. A. L. Quillin. No. 1,317,892; Oct. 7; v. 267; p. 44.
- Tool-holder. D. Richards. No. 1,295,000; Feb. 25; v. 259; p. 699.
- Tool-holder. R. J. Saum. No. 1,313,336; Aug. 19; v. 265; p. 330.
- Tool-holder. W. C. Stephenson. No. 1,314,911; Sept. 2; v. 266; p. 81.
- Tool-holder. T. E. Stuart. No. 1,296,133; Mar. 4; v. 260; p. 73.
- Tool-holder. L. Swanson. No. 1,300,042; Apr. 8; v. 261; p. 351.
- Tool-holder. J. K. Tufts. No. 1,306,039; June 10; v. 263; p. 183.
- Tool-holder. W. O. Wille. No. 1,319,443; Oct. 21; v. 267; p. 427.
- Tool-holder and reamer. D. A. Lapham and A. M. Loungway. No. 1,311,406; July 29; v. 264; p. 757.
- Tool-holder, Floating. B. E. Dohmer and A. J. Huff. No. 1,317,008; Sept. 23; v. 266; p. 539.
- Tool holder, Floating-. E. Gairing. No. 1,311,960; Aug. 5; v. 265; p. 20.
- Tool-holder, Interchangeable. W. F. Straub. No. 1,307,937; June 24; v. 263; p. 599.
- Tool holder, Multiple-. S. M. O'Sullivan. No. 1,316,920; Sept. 23; v. 266; p. 523.
- Tool holders, Gage for floating-. E. Gairing. No. 1,311,961; Aug. 5; v. 265; p. 20.
- Tool, Illuminative. E. J. Meinke. No. 1,309,363; July 8; v. 264; p. 278.
- Tool-joint. H. W. Fletcher. No. 1,300,365; Apr. 15; v. 261; p. 447.
- Tool, Lace-tipping. L. Weinstein. No. 1,308,516; July 1; v. 264; p. 92.
- Tool, Lay-out. J. A. Beach. No. 1,298,866; Apr. 1; v. 261; p. 57.
- Tool, Leaf-spring-lubricating. J. H. Tregoning. No. 1,313,565; Aug. 19; v. 265; p. 374.
- Tool, Machine-. D. Lambert. No. 1,316,961; Sept. 23; v. 266; p. 530.
- Tool-maker's clamp. A. Gordon. No. 1,321,734; Nov. 11; v. 268; p. 324.
- Tool, Metal-working. P. R. Hahnmann. No. 1,322,109; Nov. 18; v. 268; p. 443.
- Tool, Motting-. H. Jantsch. No. 1,315,964; Sept. 16; v. 266; p. 296.
- Tool of circular shape with cutting-teeth, such as screw-taps, screw-plates, boring-taps, and milling-cutters. F. Ahond. No. 1,309,232; July 8; v. 264; p. 254.
- Tool-operating machine. R. S. E. Turner. No. 1,324,136; Dec. 9; v. 269; p. 216.
- Tool or saw, Inclined. E. A. Mouche. No. 1,325,900; Dec. 23; v. 269; p. 626.
- Tool, Percussion-. A. C. Davidson. No. 1,319,696; Oct. 28; v. 267; p. 497.
- Tool, Percussion-. W. H. Keller. No. 1,317,019; Sept. 23; v. 266; p. 541.
- Tool, Percussion-. A. Schinkez. No. 1,309,815; July 15; v. 264; p. 399.
- Tool, Percussion-. W. B. Sullivan. No. 1,296,338; Mar. 4; v. 260; p. 118.
- Tool, Pipe threading and cutting. C. G. Norman. No. 1,314,692; Sept. 2; v. 266; p. 42.
- Tool, Pneumatic. C. H. Haeseler. No. 1,297,679; Mar. 18; v. 260; p. 477.
- Tool, Pneumatic impact-. W. Burlingham. No. 1,306,300; June 10; v. 263; p. 233.
- Tool, Ratchet-. E. H. Barton. No. 1,307,715; July 15; v. 264; p. 381.
- Tool-rest. L. M. Endres. No. 1,318,138; Oct. 7; v. 267; p. 91.
- Tool-retainer. W. H. and S. V. Johnson. No. 1,307,911; June 24; v. 263; p. 594.
- Tool, Sharpening-. L. Hermann. No. 1,305,602; June 3; v. 263; p. 72.
- Tool, Spring-clip. G. R. Stark. No. 1,308,687; July 1; v. 264; p. 125.
- Tool, Staple-extracting. J. Smith. No. 1,290,846; Jan. 7; v. 258; p. 199.
- Tool, Strap-tightening. E. J. Brooks. No. 1,313,669; Aug. 19; v. 265; p. 393.

- Tool, Tipping hand-. M. Fried. No. 1,314,641; Sept. 2; v. 266; p. 32.
- Tool, Turning-. G. Pawson. No. 1,317,311; Sept. 30; v. 266; p. 632.
- Tool, Valve-gage-lifting. E. M. Memphill. No. 1,314,264; Aug. 26; v. 265; p. 541.
- Tool-wedge. N. J. Cartier. No. 1,293,332; Feb. 4; v. 259; p. 83.
- Tool, Wire-splicing. S. C. Prosser. No. 1,307,516; June 24; v. 263; p. 522.
- Tool, Wire-tie-forming. F. Steinkoenig. No. 1,304,620; May 27; v. 262; p. 506.
- Tool, Wrecking-. J. Hemding, Sr. No. 1,309,734; July 15; v. 264; p. 384.
- Tools, Automatic tempering-machine for. C. O. Stee and K. H. Kolhede. No. 1,311,722; July 29; v. 264; p. 815.
- Tools, Controlled lever-feed for machine-. J. Chamberlin. No. 1,311,947; Aug. 5; v. 265; p. 18.
- Tools, Feed-control means for machine-. W. C. Osterholm. No. 1,291,098; Jan. 14; v. 258; p. 285.
- Tools, Handle for picks and other. B. Brockbank. No. 1,315,943; Sept. 16; v. 266; p. 292.
- Tools, Manufacturing cutting-. H. P. Arnold. No. 1,290,042; Jan. 7; v. 258; p. 7.
- Tools, Safety-guard for machine-. C. B. Auel and D. C. Pultney. No. 1,308,027; July 1; v. 264; p. 4.
- Tools to be dressed, Positioning device for. A. N. Hanton. No. 1,295,982; Mar. 4; v. 260; p. 37.
- Tools to spindles, Means for attaching. W. F. Groene. No. 1,300,163; Apr. 8; v. 261; p. 377.
- Tooth, Artificial. A. N. Cross. No. 1,296,928; Mar. 11; v. 260; p. 288.
- Tooth, Artificial. L. E. Evslin. No. 1,292,952; Jan. 28; v. 258; p. 780.
- Tooth, Artificial. T. F. Glenn. No. 1,303,881; May 20; v. 262; p. 328.
- Tooth, Artificial. E. T. Goldberg. No. 1,310,237; July 15; v. 264; p. 476.
- Tooth, Artificial. G. Goldfoot. No. 1,302,152; Apr. 29; v. 261; p. 873.
- Tooth, Artificial. I. Goldman. No. 1,316,787; Sept. 23; v. 266; p. 499.
- Tooth, Artificial. S. Myerson. No. 1,320,337; Oct. 28; v. 267; p. 618.
- Tooth, Artificial. W. R. Phelps. No. 1,296,846; Mar. 11; v. 260; p. 268.
- Tooth, Artificial. H. W. Reynolds. No. 1,296,429; Mar. 4; v. 260; p. 137.
- Tooth, Artificial. W. F. Slack. No. 1,312,141; Aug. 5; v. 265; p. 55.
- Tooth, Artificial. W. L. Smith. No. 1,315,997; Sept. 16; v. 266; p. 302.
- Tooth, Artificial. V. Spencer. No. 1,317,832; Oct. 7; v. 267; p. 33.
- Tooth, Artificial. C. E. Stumny. No. 1,298,419; Mar. 25; v. 260; p. 661.
- Tooth attachment and making and utilizing same, Artificial-. J. I. Richards. No. 1,296,009; Mar. 4; v. 260; p. 43.
- Tooth attachment, Artificial-. W. F. Shaw. No. 1,301,181; Apr. 22; v. 261; p. 656.
- Tooth-band. J. E. Johnson. No. 1,304,881; May 27; v. 262; p. 554.
- Tooth-cleaning device. E. Loewenherz. No. 1,312,334; Aug. 5; v. 265; p. 89.
- Tooth, Harrow-. W. H. Lee. No. 1,308,635; July 1; v. 264; p. 115.
- Tooth-powder can and other can for powder. F. D. Henry. No. 1,326,053; Dec. 23; v. 269; p. 655.
- Tooth-regulator. J. E. Canning. No. 1,292,702; Jan. 28; v. 258; p. 722.
- Tooth-separator. J. W. Ivory. No. 1,306,696; June 17; v. 263; p. 339.
- Tooth-straightening appliance. F. C. Rodgers. No. 1,292,885; Jan. 28; v. 258; p. 764.
- Toothpick-holder. S. G. Singleton. No. 1,311,625; July 29; v. 264; p. 797.
- Toothpick-holder. F. M. C. Usher. No. 1,291,282; Jan. 14; v. 258; p. 326.
- Toothpick-holder, Single-delivery. W. G. McKay. No. 1,296,986; Mar. 11; v. 260; p. 301.
- Toothpick-making machine, Straw-. F. E. Hess. No. 1,313,820; Aug. 19; v. 265; p. 422.
- Top. E. W. Gibbs. No. 1,317,699; Oct. 7; v. 267; p. 8.
- Top. R. P. Harlan. No. 1,321,035; Nov. 4; v. 268; p. 128.
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- Top, Spinning-. A. D. Converse. No. 1,324,998; Dec. 16; v. 269; p. 441.
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- Top, Whip-. G. Rowland. No. 1,295,929; Mar. 4; v. 260; p. 24.
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- Torch and igniting, Subaqueous. F. W. Brusch and W. F. J. Beyer. No. 1,298,880; Apr. 1; v. 261; p. 60.
- Torch, Autogenous cutting-. H. H. Armstrong. No. 1,300,106; Apr. 8; v. 261; p. 365.
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- Torch, Combination welding and cutting. C. H. Burritt. No. 1,316,681; Sept. 23; v. 266; p. 479.
- Torch, Cutting-. J. B. Anderson. No. 1,297,053; Mar. 11; v. 260; p. 315.
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- Torch, Cutting-. M. K. Dunham. No. 1,303,178; May 6; v. 262; p. 133.
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- Torch, Igniter-. J. S. Bremman and R. E. Nicholas. No. 1,321,280; Nov. 11; v. 268; p. 238.
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- Torpedo, Aerial. A. Vels and E. S. Clark. No. 1,309,708; July 15; v. 264; p. 379.
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- Torpedo, Signal-. W. P. Sweeney. No. 1,296,135; Mar. 4; v. 260; p. 74.
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- Torpedoes by means of under-water torpedo-tubes, Apparatus for launching. E. Schneider. No. 1,310,896; July 22; v. 264; p. 628.
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- Torpedoes, Electrical and gyroscopic apparatus for. E. A. Sperry. No. 1,314,157; Aug. 26; v. 265; p. 519.
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- Torpedoes, Stop and relief valve for automobile. W. Dieter. No. 1,319,992; Oct. 28; v. 267; p. 553.
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- Towel holder or device. H. C. McDonald. No. 1,323,296; Dec. 2; v. 269; p. 14.
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- Towels, &c., Holder for. G. A. Wedin. No. 1,314,625; Sept. 2; v. 266; p. 29.
- Tower, Collapsible. W. L. Bessolo. No. 1,319,943; Oct. 28; v. 267; p. 544.
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- Toy. M. N. Jakushov. No. 1,319,649; Oct. 21; v. 267; p. 466.
- Toy. R. W. Jones. No. 1,322,243; Nov. 18; v. 268; p. 469.
- Toy. A. E. Jorgensen. No. 1,321,049; Nov. 4; v. 268; p. 130.
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- Toy. J. Koziatsek. No. 1,313,994; Aug. 26; v. 265; p. 489.
- Toy. M. Kozlowski. No. 1,302,379; Apr. 29; v. 261; p. 916.
- Toy. C. R. Lemons. No. 1,302,389; Apr. 29; v. 261; p. 918.
- Toy. O. W. Litzenberg. No. 1,325,098; Dec. 16; v. 269; p. 460.
- Toy. H. E. Lundgren. No. 1,308,183; July 1; v. 264; p. 32.
- Toy. R. H. McDowell. No. 1,323,196; Nov. 25; v. 268; p. 701.
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- Toy. J. C. Merritt. No. 1,309,041; July 8; v. 264; p. 219.
- Toy. W. Mitchell. No. 1,320,889; Nov. 4; v. 268; p. 100.
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- Toy. A. V. Osterberg. No. 1,296,844; Mar. 11; v. 260; p. 267.
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- Toy. T. Smolinsky. No. 1,315,746; Sept. 9; v. 266; p. 241.
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- Toy. J. W. Southern. No. 1,320,581; Nov. 4; v. 268; p. 42.
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- Toy. J. Stremel. No. 1,314,614; Sept. 2; v. 266; p. 26.
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- Toy. A. H. Wehling. No. 1,299,274; Apr. 1; v. 261; p. 150.
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- Toy submarine. R. L. Walters. No. 1,301,768; Apr. 22; v. 261; p. 770.
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- Toy, Submersible. T. Burney. No. 1,296,915; Mar. 11; v. 260; p. 285.
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- Toy, Vehicular. C. M. Bartholomew. No. 1,315,005; Sept. 2; v. 266; p. 98.
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- Toy, Wheeled. J. A. Richards. No. 1,309,547; July 8; v. 264; p. 313.
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- Trace-carrier. T. R. Wilson. No. 1,300,085; Apr. 8; v. 261; p. 360.
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- Trace-fastening. E. H. Winterheimer. No. 1,293,282; Feb. 4; v. 259; p. 72.
- Trace-holder. F. McAlister. No. 1,321,138; Nov. 11; v. 268; p. 210.
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- Track-belt for track-laying tractors. R. H. White. No. 1,314,722; Sept. 2; v. 266; p. 47.
- Track construction. J. P. Scartsaris. No. 1,302,977; May 6; v. 262; p. 95.
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- Track, Endless. H. A. Hatfield. No. 1,296,512; Mar. 4; v. 260; p. 155.
- Track, Endless. H. A. Hatfield. No. 1,297,844; Mar. 18; v. 260; p. 513.
- Track, Endless moving chain. W. A. Tritton. No. 1,318,188; Oct. 7; v. 267; p. 101.
- Track-hanger. A. F. Klinzing. No. 1,322,309; Nov. 18; v. 268; p. 482.
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- Track-laying tractor. C. A. Murdock. No. 1,320,165; Oct. 28; v. 267; p. 585.
- Track-laying wheel. V. G. Garnett. No. 1,292,751; Jan. 28; v. 258; p. 732.
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- Track-lining jack. F. Vogel. No. 1,308,310; July 1; v. 264; p. 55.
- Track-obstacle and controlling mechanism therefor. G. W. Gerlach. No. 1,311,065; July 22; v. 264; p. 660.
- Track, Overhead. A. H. Neller. No. 1,326,607; Dec. 30; v. 269; p. 795.
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- Tracks, Grouser for endless-chain. E. F. Norelius. No. 1,304,357; May 20; v. 262; p. 416.
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- Traction coupling or hitch. H. B. Simons. No. 1,296,563; Mar. 4; v. 260; p. 167.
- Traction device. C. E. S. Burch. No. 1,300,814; Apr. 15; v. 261; p. 542.
- Traction device. R. Fagan. No. 1,307,192; June 17; v. 263; p. 429.
- Traction device. J. E. Leavitt. No. 1,294,123; Feb. 11; v. 259; p. 299.
- Traction device. H. I. Washburn. No. 1,325,220; Dec. 16; v. 269; p. 483.
- Traction device, Self-adjusting. D. H. Good. No. 1,301,554; Apr. 22; v. 261; p. 728.
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- Traction-engine. C. Colahan. No. 1,301,040; Apr. 15; v. 261; p. 591.
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- Traction-engine. N. H. Sooy. No. 1,325,418; Dec. 16; v. 269; p. 519.
- Traction-engine. A. R. Thompson. No. 1,292,972; Jan. 28; v. 258; p. 785.
- Traction-engine. W. Turnbull. No. 1,304,416; May 20; v. 262; p. 428.
- Traction-engine. J. A. Watson. No. 1,307,944; June 24; v. 263; p. 600.
- Traction engine or vehicle. S. Grady. No. 1,294,791; Feb. 18; v. 259; p. 490.
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- Traction-machine. N. Nilson. No. 1,321,937; Nov. 18; v. 268; p. 412.
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- Traffic light-signal. H. A. Brown. No. 1,319,265; Oct. 21; v. 267; p. 393.
- Traffic-signal. C. M. Beadenkopf. No. 1,321,702; Nov. 11; v. 268; p. 317.
- Traffic-signal. W. A. Dau. No. 1,301,396; Apr. 22; v. 261; p. 699.
- Traffic-signal. O. A. Erdmann. No. 1,307,544; June 24; v. 263; p. 527.
- Traffic-signal. B. S. M. Jarchow. No. 1,319,284; Oct. 21; v. 267; p. 397.
- Traffic-signal. E. A. Johnson. No. 1,326,512; Dec. 30; v. 269; p. 778.
- Traffic-signal. J. F. Tillery. No. 1,326,118; Dec. 23; v. 269; p. 666.
- Traffic-signal. E. V. Wilke. No. 1,324,633; Dec. 9; v. 269; p. 312.
- Traffic-signal, Automobile. D. C. Gillen. No. 1,319,276; Oct. 21; v. 267; p. 395.
- Traffic-signal control. L. P. Ernst. No. 1,317,009; Sept. 23; v. 266; p. 539.
- Traffic-signal for motor-vehicles. W. H. Koehler. No. 1,291,928; Jan. 21; v. 258; p. 513.
- Traffic-signal, Motor-vehicle. B. B. Leustig. No. 1,323,295; Dec. 2; v. 269; p. 14.
- Traffic-signal, Vehicle. H. M. Grinnell. No. 1,315,301; Sept. 9; v. 266; p. 161.
- Traffic-signaling device. P. J. Foy. No. 1,300,369; Apr. 15; v. 261; p. 448.
- Trailer. F. W. Bower. No. 1,314,498; Sept. 2; v. 266; p. 4.
- Trailer. J. C. Drew. No. 1,305,995; June 10; v. 263; p. 174.
- Trailer. F. W. Houser. No. 1,320,554; Nov. 4; v. 268; p. 37.
- Trailer. C. H. Land, Jr. No. 1,294,488; Feb. 18; v. 259; p. 420.
- Trailer. A. C. Schaffer. No. 1,316,193; Sept. 16; v. 266; p. 338.
- Trailer. S. R. Winn. No. 1,316,661; Sept. 23; v. 266; p. 476.



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- Trailer attachment. L. N. Stevenot. No. 1,325,867; Dec. 23; v. 269; p. 620.
- Trailer-brake. C. C. Keesler. No. 1,321,377; Nov. 11; v. 268; p. 256.
- Trailer-brake, Automatic. A. E. C. Paris. No. 1,315,571; Sept. 9; v. 266; p. 210.
- Trailer-brake, Automatic. A. E. C. Paris. No. 1,315,572; Sept. 9; v. 266; p. 210.
- Trailer, Camping-. L. P. and O. F. Palmer. No. 1,320,794; Nov. 4; v. 268; p. 82.
- Trailer-coupling device. L. B. Doe. No. 1,294,244; Feb. 11; v. 259; p. 328.
- Trailer, Sleeping-. C. E. Hancock. No. 1,318,994; Oct. 14; v. 267; p. 316.
- Trailers, Coupling and draw-bar for. C. A. Behlen. No. 1,313,452; Aug. 19; v. 265; p. 352.
- Trailers, Coupling and draw-bar for. C. A. Behlen. No. 1,313,453; Aug. 19; v. 265; p. 352.
- Trailers, Draft-gear for. G. A. Hiller. No. 1,313,382; Aug. 19; v. 265; p. 339.
- Trailers, Steering control for. G. A. Norton. No. 1,319,303; Oct. 21; v. 267; p. 400.
- Train-bumper. H. Varder. No. 1,318,033; Oct. 7; v. 267; p. 71.
- Train, Continuous-trip gravity. J. C. Turner. No. 1,290,687; Jan. 7; v. 258; p. 163.
- Train control. E. A. Reboul. No. 1,311,246; July 29; v. 264; p. 726.
- Train control and signal apparatus, Automatic. W. E. Backus. No. 1,292,987; Feb. 4; v. 259; p. 4.
- Train-control apparatus. H. R. Nevens. No. 1,323,090; Nov. 25; v. 268; p. 680.
- Train-control apparatus. H. R. Nevens and R. Marcy. No. 1,299,753; Apr. 8; v. 261; p. 287.
- Train-control apparatus, Automatic. W. H. Biddle. No. 1,303,631; May 13; v. 262; p. 243.
- Train-control apparatus, Automatic safety. J. J. Daniels. No. 1,323,161; Nov. 25; v. 268; p. 693.
- Train control, Automatic. E. Chabot. No. 1,310,059; July 15; v. 264; p. 444.
- Train control, Automatic. O. M. Crosby. No. 1,321,984; Nov. 18; v. 268; p. 421.
- Train control, Automatic. W. K. Howe. No. 1,299,945; Apr. 8; v. 261; p. 329.
- Train control, Automatic. W. K. Howe. No. 1,316,543; Sept. 16; v. 266; p. 406.
- Train control, Automatic. J. Johnson. No. 1,304,778; May 27; v. 262; p. 535.
- Train control, Automatic. H. J. Matson. No. 1,299,985; Apr. 8; v. 261; p. 338.
- Train control, Automatic. E. Meisersick. No. 1,312,919; Aug. 12; v. 265; p. 233.
- Train control, Automatic. C. W. Wilson. No. 1,304,642; May 27; v. 262; p. 509.
- Train-control device, Automatic. W. V. Turner. No. 1,294,979; Feb. 18; v. 259; p. 533.
- Train-control device, Automatic. W. V. Turner. No. 1,316,205; Sept. 16; v. 266; p. 340.
- Train-control mechanism. J. H. Corrlon. No. 1,312,163; Aug. 5; v. 265; p. 58.
- Train-control system. J. E. Anderson. No. 1,303,227; May 13; v. 262; p. 171.
- Train-control system. E. J. Blake. No. 1,316,263; Sept. 16; v. 266; p. 351.
- Train-control system. A. Y. Dodge. No. 1,298,676; Apr. 1; v. 261; p. 12.
- Train-control system. L. E. Dodge. No. 1,316,538; Sept. 16; v. 266; p. 404.
- Train-control system. G. P. Finnigan. No. 1,302,345; Apr. 29; v. 261; p. 910.
- Train-control system. M. R. Julian. No. 1,322,023; Nov. 18; v. 268; p. 428.
- Train-control system. E. A. Laughon. No. 1,318,015; Oct. 14; v. 267; p. 320.
- Train-control system. H. R. Maguire. No. 1,291,055; Jan. 14; v. 258; p. 275.
- Train-control system. W. B. Murray. No. 1,294,823; Feb. 18; v. 259; p. 497.
- Train-control system. W. B. Murray. No. 1,296,938; Mar. 11; v. 260; p. 266.
- Train-control system. H. Rowntree. No. 1,311,182; July 29; v. 264; p. 714.
- Train-control system. F. A. Sketchley. No. 1,314,439; Aug. 26; v. 265; p. 575.
- Train-control system. L. R. Wallace. No. 1,305,757; June 3; v. 263; p. 100.
- Train-control system, Automatic. G. P. Finnigan. No. 1,299,446; Apr. 8; v. 261; p. 217.
- Train-control system, Automatic. G. P. Finnigan. No. 1,305,348; June 3; v. 263; p. 22.
- Train-control system, Automatic. W. K. Howe. No. 1,306,380; June 10; v. 263; p. 249.
- Train-control system, Automatic. W. K. Howe. No. 1,308,543; July 1; v. 264; p. 97.
- Train-control system, Automatic. R. C. Leake. No. 1,291,565; Jan. 14; v. 258; p. 392.
- Train-control systems, Contact-shoe for automatic. W. K. Howe. No. 1,308,544; July 1; v. 264; p. 97.
- Train-control systems, Contact-shoe for automatic. H. B. Taylor. No. 1,308,534; July 1; v. 264; p. 96.
- Train-control systems, Contact-shoe for automatic. H. B. Taylor. No. 1,308,535; July 1; v. 264; p. 96.
- Train-control systems, Safety device for automatic. W. K. Howe. No. 1,291,523; Jan. 14; v. 258; p. 382.
- Train-controlling block system. J. Johnson. No. 1,320,473; Nov. 4; v. 268; p. 22.
- Train-controlling means, Automatic. M. Weil. No. 1,304,833; May 27; v. 262; p. 545.
- Train-controlling mechanism. W. T. White. No. 1,305,851; June 3; v. 263; p. 117.
- Train crews, Registering device for electric. W. Arthur. No. 1,319,451; Oct. 21; v. 267; p. 428.
- Train-despatch deliverer. R. L. Wanamaker. No. 1,306,506; June 10; v. 263; p. 271.
- Train-despatching system. E. M. McMahon and F. W. Ackerman. No. 1,294,928; Feb. 18; v. 259; p. 522.
- Train device, Automatic safety. C. J. Krog. No. 1,303,806; May 13; v. 262; p. 276.
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- Train-hose coupling. A. Remer and J. S. Tripp. No. 1,306,927; June 17; v. 263; p. 382.
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- Train-line coupling, Electric. T. R. Brown. No. 1,290,066; Jan. 7; v. 258; p. 13.
- Train-lines, Emergency angle-coupling for broken. J. C. Venable. No. 1,304,126; May 20; v. 262; p. 372.
- Train mechanism, Intermittent. M. L. Greenstreet and S. F. Lumm. No. 1,299,328; Apr. 1; v. 261; p. 162.
- Train or car stop system, Automatic. L. H. Thullen. No. 1,293,579; Feb. 4; v. 259; p. 140.
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- Train-order holder. E. H. Smith. No. 1,309,080; July 8; v. 264; p. 226.
- Train-pipe connector, Automatic. J. V. Robinson. No. 1,300,652; Apr. 15; v. 261; p. 507.
- Train-pipe coupling. J. Bullinger. No. 1,320,987; Nov. 4; v. 268; p. 119.
- Train-pipe coupling. G. A. Sager. No. 1,321,154; Nov. 11; v. 268; p. 213.
- Train-pipe coupling. W. C. White. No. 1,321,689; Nov. 11; v. 268; p. 315.
- Train-signal. J. Unczur. No. 1,323,426; Dec. 2; v. 269; p. 38.
- Train signal and stop, Automatic. W. S. Levin. No. 1,305,380; June 3; v. 263; p. 28.
- Train signal device. D. and C. L. Debolt. No. 1,291,435; Jan. 14; v. 258; p. 363.
- Train signaling and control system, Combined automatic. J. W. Buell. (Reissue.) No. 14,676; June 24; v. 263; p. 616.
- Train-stop. W. H. Lowell and M. T. Wintsch. No. 1,301,468; Apr. 22; v. 261; p. 712.
- Train-stop, Automatic. G. Beck. No. 1,316,759; Sept. 23; v. 266; p. 494.
- Train-stop, Automatic. B. Carlisle. No. 1,307,807; June 24; v. 263; p. 575.
- Train-stop, Automatic. W. H. H. Dansberry. No. 1,318,482; Oct. 14; v. 267; p. 218.
- Train-stop, Automatic. H. J. Doolan. No. 1,311,761; July 29; v. 264; p. 822.
- Train-stop, Automatic. T. A. Flynn, Jr. No. 1,300,152; Apr. 8; v. 261; p. 375.
- Train-stop, Automatic. J. Gut. No. 1,323,627; Dec. 2; v. 269; p. 75.
- Train-stop, Automatic. A. E. Haseltine. No. 1,300,963; Apr. 15; v. 261; p. 573.
- Train-stop, Automatic. O. Holmes. No. 1,315,500; Sept. 9; v. 266; p. 197.
- Train-stop, Automatic. B. P. Pranker. No. 1,298,782; Apr. 1; v. 261; p. 39.
- Train-stop, Automatic. W. A. Seeds. No. 1,301,879; Apr. 29; v. 261; p. 822.
- Train-stop, Automatic. F. W. Thill. No. 1,291,255; Jan. 14; v. 258; p. 320.
- Train-stop device. H. R. Nevens. No. 1,323,091; Nov. 25; v. 268; p. 680.
- Train-stop mechanism. H. R. Nevens. No. 1,305,738; June 3; v. 263; p. 96.
- Train-stop or cab-signal, Automatic. E. M. Jones. No. 1,290,223; Jan. 7; v. 258; p. 50.
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- Train-stopping device, Automatic. D. D. Good. No. 1,294,651; Feb. 18; v. 259; p. 457.
- Train-stopping device, Automatic. J. W. Sayre. No. 1,295,071; Feb. 18; v. 259; p. 554.
- Train-stopping mechanism, Automatic. S. Anderson. No. 1,306,731; June 17; v. 263; p. 345.
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- Trammel. J. Chiodo. No. 1,300,122; Apr. 8; v. 261; p. 368.
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- Tramming device. G. E. Blake. No. 1,319,834; Oct. 28; v. 267; p. 524.
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- Transfer process. F. W. Kent and T. P. Middleton. No. 1,299,479; Apr. 8; v. 261; p. 225.
- Transfer-rack apparatus. J. A. Bechtel. No. 1,324,785; Dec. 16; v. 269; p. 403.
- Transfer system, Passenger and freight. W. P. Lemar. No. 1,313,091; Aug. 12; v. 265; p. 268.
- Transference of loose material. C. E. Blyth. No. 1,323,243; Dec. 2; v. 269; p. 4.
- Transference of loose material. C. E. Blyth. No. 1,323,244; Dec. 2; v. 269; p. 4.
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- Transformer. H. N. Bowman. No. 1,320,980; Nov. 4; v. 268; p. 117.
- Transformer. G. A. Burnham. No. 1,293,692; Feb. 11; v. 259; p. 197.
- Transformer. L. H. Burnham. No. 1,304,451; May 20; v. 262; p. 435.
- Transformer. R. A. Connor. No. 1,314,305; Aug. 26; v. 265; p. 548.
- Transformer. A. G. Ellis and J. L. Thompson. No. 1,317,280; Sept. 30; v. 266; p. 627.
- Transformer. G. Harlow. No. 1,311,507; July 29; v. 264; p. 775.
- Transformer. A. P. Hendricks, Jr. No. 1,297,161; Mar. 11; v. 260; p. 339.
- Transformer. S. E. Johannesen. No. 1,304,184; May 20; v. 262; p. 383.
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- Transformer, Alternating-current welding. C. J. Holslag. No. 1,305,361; June 3; v. 263; p. 25.
- Transformer and maintaining reactance device for vapor-converter systems, Combined. Q. A. Brackett. No. 1,318,722; Oct. 14; v. 267; p. 263.
- Transformer and rectifier, Combined. E. B. Stack. No. 1,316,546; Sept. 16; v. 266; p. 406.
- Transformer-controller. E. Lehr. No. 1,326,354; Dec. 30; v. 269; p. 747.
- Transformer, High-voltage-current. L. Arnold. No. 1,301,636; Apr. 22; v. 261; p. 743.
- Transformer-secondary. J. H. Gravell. No. 1,308,782; July 8; v. 264; p. 170.
- Transformer tertiary coils. L. W. Chubb. No. 1,298,665; Apr. 1; v. 261; p. 10.
- Transformer, Water-cooled. E. D. Treanor. No. 1,310,097; July 15; v. 264; p. 450.
- Transformer with series excitation, Direct-current-voltage. O. Guttinger. No. 1,326,447; Dec. 30; v. 269; p. 765.
- Transformers, Coil structure for. C. H. Thordarson. No. 1,326,223; Dec. 30; v. 269; p. 723.
- Transforming device. T. Bodde. No. 1,298,443; Mar. 25; v. 260; p. 667.
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- Translating material. M. Sims. No. 1,303,604; May 13; v. 262; p. 238.
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- Transmission. E. M. and A. G. Rayburn. No. 1,297,733; Mar. 18; v. 260; p. 490.
- Transmission. E. M. and A. G. Rayburn. No. 1,297,734; Mar. 18; v. 260; p. 490.
- Transmission. E. Schmitt. No. 1,300,225; Apr. 8; v. 261; p. 391.
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- Transmission and clutch operating means. H. N. Edens. No. 1,316,433; Sept. 16; v. 266; p. 384.
- Transmission and gear-shifting means. W. J. Thompson. No. 1,290,518; Jan. 7; v. 258; p. 122.
- Transmission-band. H. F. Hons, Jr. No. 1,322,111; Nov. 18; v. 268; p. 444.
- Transmission-band adjuster. H. M. Strong. No. 1,320,347; Oct. 28; v. 267; p. 619.
- Transmission-bands, Treating. C. J. Johnson. No. 1,293,107; Feb. 4; v. 259; p. 32.
- Transmission-circuit. H. C. Egerton. No. 1,295,454; Feb. 25; v. 259; p. 665.
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- Transmission lever-lock. J. Bernet. No. 1,311,744; July 29; v. 264; p. 819.
- Transmission-lock. H. W. Abbott. No. 1,318,040; Oct. 7; v. 267; p. 72.
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- Transmission mechanism. A. E. Johnson. No. 1,304,484; May 20; v. 262; p. 441.
- Transmission mechanism. A. Krieg. No. 1,298,060; Mar. 25; v. 260; p. 584.
- Transmission mechanism. W. A. McCarrell. No. 1,317,376; Sept. 30; v. 266; p. 645.
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- Transmission mechanism. H. N. Moore. No. 1,320,635; Nov. 4; v. 268; p. 52.
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- Transmission mechanism. F. P. Rosback. No. 1,297,736; Mar. 18; v. 260; p. 490.
- Transmission mechanism. A. Worpitz. No. 1,313,776; Aug. 19; v. 265; p. 413.
- Transmission mechanism, Frictional. M. R. Brown and W. L. Martin. No. 1,311,592; July 29; v. 264; p. 791.
- Transmission of power, Means for. J. L. Woodbridge. No. 1,312,604; Aug. 12; v. 265; p. 173.
- Transmission of writing and the like in facsimile, System for. H. Foss and H. Petersen. No. 1,290,957; Jan. 14; v. 258; p. 253.
- Transmission-shift-device retainer and lock. G. C. Jensen. No. 1,296,397; Mar. 4; v. 260; p. 131.
- Transmission-shifting device. C. H. Miller. No. 1,326,281; Dec. 30; v. 269; p. 734.
- Transmission system. M. A. Whiting. No. 1,297,953; Mar. 18; v. 260; p. 537.
- Transmission system. A. Wray. No. 1,292,208; Jan. 21; v. 258; p. 552.
- Transmission system, Selective wave. J. H. Hammond, Jr. No. 1,326,727; Dec. 30; v. 269; p. 818.
- Transmission systems, Protection of. E. E. F. Creighton. No. 1,313,072; Aug. 12; v. 265; p. 264.
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- Transmitter, Impulse. J. C. Field. No. 1,306,054; June 10; v. 263; p. 185.
- Transmitter, Impulse. O. D. M. Guthe. No. 1,294,095; Feb. 11; v. 259; p. 292.
- Transmitting and recording messages, Apparatus for. H. and A. Warmick. No. 1,314,721; Sept. 2; v. 266; p. 48.
- Transmitting apparatus. J. J. Comer. No. 1,305,525; June 3; v. 263; p. 55.
- Transmitting intelligence, Method of and apparatus for. B. Proser. No. 1,322,340; Nov. 18; v. 268; p. 487.
- Transmitting means, Motion. H. W. Wilke. No. 1,293,593; Feb. 4; v. 259; p. 143.
- Transmitting mechanism, Protector for. O. I. Judelson. No. 1,326,202; Dec. 30; v. 269; p. 719.
- Transmitting motion, Mechanism for. G. P. Marinier. No. 1,320,257; Oct. 28; v. 267; p. 603.
- Transmitting rotary motion, Means for. J. H. Popplink. No. 1,298,560; Mar. 25; v. 260; p. 692.
- Transom-operating mechanism. C. V. Jones. No. 1,297,860; Mar. 18; v. 260; p. 517.
- Transom-operator. H. G. Voight. No. 1,306,292; June 10; v. 263; p. 232.
- Transom-operator. H. G. Voight and A. A. Page. No. 1,306,291; June 10; v. 263; p. 232.
- Transplanters, Dust-shield for. J. F. Owens. No. 1,316,921; Sept. 23; v. 266; p. 523.
- Transportation-case. E. H. Johnson. No. 1,310,161; July 15; v. 264; p. 462.
- Transportation system. J. C. Bonner. No. 1,323,574; Dec. 2; v. 269; p. 66.
- Transporting perishable articles, Apparatus for. S. H. Brubaker. No. 1,297,318; Mar. 18; v. 260; p. 403.
- Transportivity of streams, &c., Method of and means for controlling the surface. B. F. Groat. No. 1,314,743; Sept. 2; v. 266; p. 51.



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- Transposition-points, Locating special. H. Mouradian. (Reissue.) No. 14,593; Feb. 18; v. 259; p. 559.
- Trap: See—
- |                       |                        |
|-----------------------|------------------------|
| Animal-trap.          | Return-trap.           |
| Animal and fowl trap. | Rodent-trap.           |
| Ant-trap.             | Safe-door trap.        |
| Bathrub-trap.         | Sanitary trap.         |
| Bear-trap.            | Self-cleaning trap.    |
| Bird-trap.            | Self-sealing trap.     |
| Burglar-trap.         | Sewer-trap.            |
| Closet-trap.          | Soot-trap.             |
| Cockroach-trap.       | Spring-trap.           |
| Fish-trap.            | Steam-trap.            |
| Fly-trap.             | Target-trap.           |
| Insect-trap.          | Tilting trap.          |
| Lifting-trap.         | Vacuum-trap.           |
| Mole-trap.            | Valved cesspool-trap.  |
| Mouse-trap.           | Water-grass-seed trap. |
| Rat-trap.             |                        |
- Trap. J. S. Anderson. No. 1,305,333; June 3; v. 263; p. 19.
- Trap. J. S. Bealle. No. 1,321,588; Nov. 11; v. 268; p. 296.
- Trap. H. Cherep. No. 1,305,588; June 3; v. 263; p. 69.
- Trap. G. W. Cooper. No. 1,320,844; Nov. 4; v. 268; p. 91.
- Trap. H. G. Greene and F. E. Adams. No. 1,307,582; June 24; v. 263; p. 534.
- Trap. J. V. Juricek. No. 1,315,510; Sept. 9; v. 266; p. 109.
- Trap. O. Kampfe. No. 1,326,662; Dec. 30; v. 269; p. 805.
- Trap. F. Kopel. No. 1,307,678; June 24; v. 263; p. 551.
- Trap. C. G. Layton. No. 1,296,407; Mar. 4; v. 260; p. 133.
- Trap. J. Margo. No. 1,294,293; Feb. 11; v. 259; p. 338.
- Trap. H. F. Mayse. No. 1,326,080; Dec. 23; v. 269; p. 660.
- Trap. C. H. Nash. No. 1,297,893; Mar. 18; v. 260; p. 524.
- Trap. T. Penwell and H. E. Brown. No. 1,308,255; July 1; v. 264; p. 45.
- Trap. J. B. Sitts. No. 1,296,437; Mar. 4; v. 260; p. 139.
- Trap. L. Wernicke. No. 1,322,664; Nov. 25; v. 268; p. 600.
- Trap. W. Wing. No. 1,299,086; Apr. 1; v. 261; p. 108.
- Trap and seal, Combined. C. A. Moore. No. 1,290,636; Jan. 7; v. 258; p. 150.
- Trap for clay pigeons, Hand-. E. W. Sibley. No. 1,306,393; June 10; v. 263; p. 251.
- Trap for flies and the like. R. Pichot, née Derenne. No. 1,312,573; Aug. 12; v. 265; p. 167.
- Trap for throwing clay pigeons, Hand-. G. A. Johnson. No. 1,306,381; June 10; v. 263; p. 249.
- Trap-nest. F. D. Barnes. No. 1,304,845; May 27; v. 262; p. 548.
- Trap-stake. J. S. Knight. No. 1,309,036; July 8; v. 264; p. 218.
- Trap, Steam-. H. S. Nicholson and W. C. Beiswinger. No. 1,302,833; May 6; v. 262; p. 67.
- Traps, Swivel-jaws for muskrat-. J. Froelich. No. 1,316,024; Sept. 16; v. 266; p. 307.
- Travel-recording device. H. Sattler. No. 1,320,097; Oct. 28; v. 267; p. 573.
- Traveling apparatus. H. J. Fereday. No. 1,318,318; Oct. 7; v. 267; p. 126.
- Traveling-bag removable tray. K. C. Briggs. No. 1,300,921; Apr. 15; v. 261; p. 565.
- Traveling-bags, Flash-light attachment for. R. E. Robinson. No. 1,320,574; Nov. 4; v. 268; p. 41.
- Traveling cranes and carriages, Propelling and braking means for. M. B. Benson. No. 1,320,971; Nov. 4; v. 268; p. 116.
- Tray. A. P. Geimer. No. 1,291,474; Jan. 14; v. 258; p. 372.
- Tray. E. H. Weil. No. 1,319,195; Oct. 21; v. 267; p. 380.
- Tray, Account-. F. L. Manny. No. 1,325,525; Dec. 23; v. 269; p. 557.
- Tray and book-rack, Combination. W. C. Fraser. No. 1,299,164; Apr. 1; v. 261; p. 125.
- Tray attachment. A. R. Bullock. No. 1,290,072; Jan. 7; v. 258; p. 14.
- Tray, Blotter and pen. S. J. Adams. No. 1,312,379; Aug. 5; v. 265; p. 98.
- Tray-carrier. S. Olson. No. 1,325,857; Dec. 23; v. 269; p. 618.
- Tray-conveying apparatus. W. A. Marcy. No. 1,300,987; Apr. 15; v. 261; p. 579.
- Tray, Currency-counting. P. B. Downing. No. 1,313,074; Aug. 12; v. 265; p. 264.
- Tray, Desk-. F. A. Fuller. No. 1,293,400; Feb. 4; v. 259; p. 99.
- Tray, Egg-turning. S. C. Beamer. No. 1,306,164; June 10; v. 263; p. 206.
- Tray, Fish-. R. B. Bentley. No. 1,301,031; Apr. 15; v. 261; p. 589.
- Tray for forming and serving sandwiches. A. C. Leich and J. S. Berner. No. 1,293,482; Feb. 4; v. 259; p. 118.
- Tray, Fruit-. A. M. Lane. No. 1,310,800; July 22; v. 264; p. 611.
- Tray, Hospital medicine-. W. B. Grant. No. 1,306,591; June 10; v. 263; p. 286.
- Tray, Incubator-. J. F. Harrison, Jr. No. 1,300,957; Apr. 15; v. 261; p. 572.
- Tray, Laundry-marking-pin. E. F. Layman. No. 1,322,313; Nov. 18; v. 268; p. 482.
- Tray, Ledger-binder. S. R. Coleman. No. 1,290,512; Jan. 7; v. 258; p. 120.
- Tray-lifting device. R. Hunter. No. 1,299,475; Apr. 8; v. 261; p. 224.
- Tray, Loose-leaf. S. W. Bowman. No. 1,314,944; Sept. 2; v. 266; p. 86.
- Tray, Non-warping. R. R. Lundy. No. 1,325,256; Dec. 16; v. 269; p. 490.
- Tray, Ophthalmic test-lens. E. Kandler. No. 1,297,357; Mar. 18; v. 260; p. 410.
- Tray or the like. A. Montan. No. 1,305,148; May 27; v. 262; p. 604.
- Tray, Sanitary high-chair. R. E. Dulac. No. 1,297,115; Mar. 11; v. 260; p. 329.
- Tray set, Desk-. F. L. G. Straubel. No. 1,303,985; May 20; v. 262; p. 347.
- Tray-turning machine. K. Sanwo. No. 1,323,552; Dec. 2; v. 269; p. 62.
- Trays, Device for turning. S. L. Walker. No. 1,310,379; July 15; v. 264; p. 501.
- Tread-forming press. C. W. Steele. No. 1,291,227; Jan. 14; v. 258; p. 314.
- Tread, Metal. P. Kass. No. 1,306,339; June 10; v. 263; p. 241.
- Tread, Non-slip pneumatic. C. F. Dyer. No. 1,315,482; Sept. 9; v. 266; p. 194.
- Tread-rolling apparatus. F. B. Converse and J. L. Butler. No. 1,314,733; Sept. 2; v. 266; p. 49.
- Treads, Method and machine for making. C. Messick. No. 1,299,987; Apr. 8; v. 261; p. 338.
- Treading-machine. K. B. Kilborn. No. 1,309,894; July 15; v. 264; p. 414.
- Treadle-control mechanism. E. F. Grandy. No. 1,290,175; Jan. 7; v. 258; p. 39.
- Treasure-box and the like with keyless lock and metal seal. S. D. Garbis. No. 1,312,970; Aug. 12; v. 265; p. 244.
- Treasure-carrier. J. S. Yergason. No. 1,290,827; Jan. 7; v. 258; p. 196.
- Treating and separating system. W. R. Macklind. No. 1,311,828; July 29; v. 264; p. 834.
- Treating-material apparatus. J. W. Hornsey. No. 1,293,780; Feb. 11; v. 259; p. 218.
- Treating multiply fabrics, Folding device for. D. D. Macpherson. No. 1,305,141; May 27; v. 262; p. 602.
- Treating solid-bearing solutions, Apparatus for. L. C. Trent. No. 1,307,329; June 17; v. 263; p. 454.
- Treating-table. F. Koenigkramer. No. 1,314,597; Sept. 2; v. 266; p. 23.
- Treating-table. F. Koenigkramer. No. 1,319,227; Oct. 21; v. 267; p. 386.
- Tree: See—
- Shoe-tree.
- Tree digger, Nursery-. E. A. Jackson. No. 1,302,051; Apr. 29; v. 261; p. 855.
- Tree-felling device. S. C. Rosenberg. No. 1,322,468; Nov. 18; v. 268; p. 512.
- Tree-felling machine. R. Lagus. No. 1,302,932; May 6; v. 262; p. 86.
- Tree-guard. L. Bender. No. 1,293,000; Feb. 4; v. 259; p. 7.
- Tree-guard attachment. L. Bender. No. 1,292,999; Feb. 4; v. 259; p. 7.
- Tree-holder. J. Kroll. No. 1,319,009; Oct. 14; v. 267; p. 319.
- Tree holder, Christmas-. R. C. Owen. No. 1,298,380; Mar. 25; v. 260; p. 652.
- Tree-protector. V. Marsico. No. 1,323,891; Dec. 2; v. 269; p. 126.
- Tree rigging device, Spar-. J. J. Geary. No. 1,317,871; Oct. 7; v. 267; p. 40.
- Trellis, Collapsible fan-. G. T. Parr. No. 1,311,136; July 22; v. 264; p. 673.
- Trench-cutter. J. Petermann. No. 1,321,770; Nov. 11; v. 268; p. 330.
- Trench-digging machine. L. Wehner. No. 1,301,344; Apr. 22; v. 261; p. 689.
- Trench-knife. R. Hughes. No. 1,315,503; Sept. 9; v. 266; p. 198.
- Trench, Portable. J. Pietruszkiewicz. No. 1,297,904; Mar. 18; v. 260; p. 526.
- Trench warfare, System of. J. J. Duffie. No. 1,302,904; May 6; v. 262; p. 81.
- Trench-wire cutter. G. Broadmack. No. 1,298,449; Mar. 25; v. 260; p. 668.
- Trenching apparatus. T. F. Moore. No. 1,305,396; June 3; v. 263; p. 31.
- Trenching-machine. H. L. Geveke. No. 1,301,833; Apr. 29; v. 261; p. 813.
- Trestle. M. Herman. No. 1,294,264; Feb. 11; v. 259; p. 331.
- Trestle. A. L. Tidyman. No. 1,303,416; May 13; v. 262; p. 204.

- Trestle or table, Workman's collapsible. A. Leonard. No. 1,312,994; Aug. 12; v. 265; p. 249.
- Triangles, Ruling attachment for. S. di Maio. No. 1,313,168; Aug. 12; v. 265; p. 283.
- Trick-lock. W. Zadorozny. No. 1,316,663; Sept. 23; v. 266; p. 476.
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- Trimmer: *See—*  
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- Trimming device. L. B. Pierson. No. 1,325,908; Dec. 23; v. 269; p. 627.
- Trimming device for scenery and the like. E. V. Morris. No. 1,296,422; Mar. 4; v. 260; p. 136.
- Trimming-machine. L. M. Brown and A. A. Macleod. No. 1,295,964; Mar. 4; v. 260; p. 33.
- Trimming-machine. R. Hazeltine. No. 1,299,835; Apr. 1; v. 261; p. 163.
- Trimming-machine. H. D. Webb. No. 1,311,197; July 29; v. 264; p. 717.
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- Trinitrotoluol and other crude aromatic nitro compounds, Refining crude. C. A. Woodbury. No. 1,309,559; July 8; v. 264; p. 315.
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- Trip-switch. G. A. De Guire. No. 1,296,636; Mar. 11; v. 260; p. 220.
- Tripe-cleaning, Method and apparatus. C. S. Hardy. No. 1,294,455; Feb. 18; v. 259; p. 413.
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- Triplane, Pusher. W. S. Burgess. No. 1,323,959; Dec. 2; v. 269; p. 138.
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- Tripod. H. B. Jones. No. 1,300,412; Apr. 15; v. 261; p. 456.
- Tripod. W. D. McKinney. No. 1,324,605; Dec. 9; v. 269; p. 307.
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- Trivet. C. J. Tate. No. 304,405; May 20; v. 262; p. 426.
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- Trolley. S. Kalma. No. 1,312,076; Aug. 5; v. 265; p. 42.
- Trolley. A. B. Upham. No. 1,294,204; Feb. 11; v. 259; p. 318.
- Trolley bracket and end closure therefor, Overhead. E. J. G. Phillips. No. 1,318,691; Oct. 14; v. 267; p. 258.
- Trolley-conductor device. N. J. A. Wahlberg. No. 1,306,566; June 10; v. 263; p. 282.
- Trolley for hoisting apparatus, &c. W. H. Mosher. No. 1,312,417; Aug. 5; v. 265; p. 106.
- Trolley-frog. N. K. Bowman. No. 1,318,476; Oct. 14; v. 267; p. 217.
- Trolley-guard. R. C. Dickenson. No. 1,314,130; Aug. 26; v. 265; p. 514.
- Trolley-hanger. J. Leisenring. No. 1,303,688; May 13; v. 262; p. 254.
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- Trolley-wheel. F. T. Elwell. No. 1,304,285; May 20; v. 262; p. 402.
- Trolley-wheel. F. C. Karkalla. No. 1,326,063; Dec. 23; v. 269; p. 656.
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- Trolley-wire clamp. D. G. Winchester. No. 1,309,870; July 15; v. 264; p. 409.
- Trolley-wire coupling. W. H. Lehman. No. 1,324,678; Dec. 9; v. 269; p. 320.
- Trolley-wire finding and replacing device. A. R. Langley. No. 1,312,697; Aug. 12; v. 265; p. 190.
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- Trolley-wire hanger. J. A. McIntosh. No. 1,296,829; Mar. 11; v. 260; p. 264.
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- Truck, Elevating-. J. L. Anderson. No. 1,321,780; Nov. 11; v. 268; p. 332.
- Truck, Elevating-. F. L. Eldmann. No. 1,306,417; June 10; v. 263; p. 255.
- Truck, Elevating-. J. H. Rose. No. 1,325,863; Dec. 23; v. 269; p. 620.
- Truck, Elevating-. C. F. Schultis. No. 1,303,601; May 13; v. 262; p. 238.
- Truck, Excavating-. W. W. Hartsough. No. 1,315,666; Sept. 9; v. 266; p. 226.
- Truck for dipper-excavators, Swivel-. J. C. French. No. 1,294,439; Feb. 18; v. 259; p. 409.
- Truck for handling rolls of belting, &c. C. C. Fouts. No. 1,322,299; Nov. 18; v. 268; p. 480.
- Truck for tunnel-kilns. C. H. Zwermann. No. 1,306,160; June 10; v. 263; p. 205.
- Truck, Fore-. J. C. Haynes. No. 1,324,047; Dec. 9; v. 269; p. 199.
- Truck, Four-wheel-drive. J. H. Pifer. No. 1,314,093; Aug. 26; v. 265; p. 507.
- Truck-frame. R. E. Wilder. No. 1,326,243; Dec. 30; v. 269; p. 727.
- Truck frame for traction-engines, Roller. E. E. Wickersham. No. 1,296,579; Mar. 4; v. 260; p. 171.
- Truck, Hand-. G. Ebner and E. Jeschke. No. 1,313,883; Aug. 26; v. 265; p. 467.
- Truck, Hand-. W. S. Lobdell. No. 1,296,675; Mar. 11; v. 260; p. 229.
- Truck, Hand-. R. M. Lovejoy. No. 1,307,687; June 24; v. 263; p. 553.
- Truck, Hand-. H. S. Shannon. No. 1,322,633; Nov. 25; v. 268; p. 595.
- Truck, Hand-. B. E. Willett. No. 1,326,556; Dec. 30; v. 269; p. 786.
- Truck-hoist. W. S. Livengood. No. 1,312,489; Aug. 5; v. 265; p. 119.
- Truck, Industrial. G. R. Fairchilds. No. 1,311,333; July 29; v. 264; p. 743.
- Truck journal-boxes, Wear-plate for. E. W. Anger. No. 1,325,772; Dec. 23; v. 269; p. 602.
- Truck, Ladder-. W. Christie. No. 1,311,552; July 29; v. 264; p. 784.
- Truck-loader. S. Sabatini and C. Giovanelli. No. 1,316,256; Sept. 16; v. 266; p. 350.
- Truck-loading attachment. G. L. Case. No. 1,315,814; Sept. 9; v. 266; p. 253.
- Truck, Locomotive-. A. C. Bunker. No. 1,307,616; June 24; v. 263; p. 540.
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- Truck, Locomotive trailing-. F. J. Cole. No. 1,316,143; Sept. 16; v. 266; p. 329.
- Truck mechanism, Tractor-. W. O. Miller. No. 1,304,347; May 20; v. 262; p. 414.
- Truck mechanism, Tractor-. H. C. White. No. 1,304,428; May 20; v. 262; p. 430.
- Truck, Motor-. N. Rüdy. No. 1,305,171; May 27; v. 262; p. 608.
- Truck, Motor-. D. T. Timberlake. No. 1,294,198; Feb. 11; v. 259; p. 317.
- Truck, Multiple-body. P. E. Angle. No. 1,290,694; Jan. 7; v. 258; p. 165.
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- Truck, Railway stock-. G. S. Davis. No. 1,311,326; July 29; v. 264; p. 741.
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- Truck-scoop. E. A. Hensal. No. 1,297,163; Mar. 11; v. 260; p. 339.
- Truck, Service-. T. W. Meiklejohn. No. 1,322,595; Nov. 25; v. 268; p. 588.
- Truck, Shell-. L. J. Primeau. No. 1,319,616; Oct. 21; v. 267; p. 460.
- Truck, Shock loading and hoisting. W. G. Osborn. No. 1,314,694; Sept. 2; v. 266; p. 42.
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- Truck, Six-wheel-. E. E. Slick. No. 1,292,900; Jan. 28; v. 258; p. 768.
- Truck, Steering-. W. H. Goodman and E. A. Holden. No. 1,317,649; Sept. 30; v. 266; p. 698.
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- Truck traction system, Package. F. E. Lammert and L. Hartman. No. 1,294,813; Feb. 18; v. 259; p. 495.
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- Trucks, Brake mechanism for six-wheel. J. C. Larsen. No. 1,298,228; Mar. 25; v. 260; p. 621.
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- Trucks, Lateral-motion device for car-. J. C. Barber. No. 1,316,554; Sept. 23; v. 266; p. 455.
- Trucks, Load-lifting mechanism for motor-. W. S. Overlin. No. 1,323,719; Dec. 2; v. 269; p. 93.
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- Trucks, Means for automatically alining car-. J. F. O'Connor. No. 1,304,085; May 20; v. 262; p. 364.

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- Trucks, Rear-axle construction for automobile. A. B. Carll. No. 1,318,132; Oct. 7; v. 267; p. 90.
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- Trucks, Spring-beam and spring-seat for car-. J. J. Tatum. No. 1,318,240; Oct. 7; v. 267; p. 112.
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- Tub-fixture. J. F. Rutz and F. A. Gauger. No. 1,324,929; Dec. 16; v. 269; p. 429.
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- Tungsten and similar metals from their ores, Extracting. D. J. and J. E. Giles. No. 1,293,403; Feb. 4; v. 259; p. 99.
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- Type-writers, Means for covering. G. H. Richards. No. 1,315,794; Sept. 9; v. 266; p. 249.
- Type-writers, Non-numeral-key lock for computing. H. N. McKay. No. 1,320,018; Oct. 28; v. 267; p. 558.
- Type-writers or the like, Convertible table for. J. A. Jones. No. 1,295,326; Feb. 25; v. 259; p. 635.
- Type-writers, Ribbon-reinking attachment for. R. E. Pullen. No. 1,304,367; May 20; v. 262; p. 419.
- Type-writers, Spring-key for. C. H. Jansen. No. 1,293,105; Feb. 4; v. 259; p. 31.
- Type-writers, Underscoring attachment for. B. Kerz. No. 1,322,699; Nov. 25; v. 268; p. 607.
- Type-writing and computing machine. A. H. Ellis. No. 1,316,434; Sept. 16; v. 266; p. 384.
- Type-writing and computing machine, Combined. R. M. Becker. No. 1,296,354; Mar. 4; v. 260; p. 122.
- Type-writing and computing machine, Combined. R. M. Becker. No. 1,296,355; Mar. 4; v. 260; p. 122.
- Type-writing and computing machine, Combined. G. O. Degener. No. 1,294,425; Feb. 18; v. 259; p. 404.
- Type-writing and computing machine, Combined. A. S. Dennis. No. 1,317,965; Oct. 7; v. 267; p. 58.
- Type-writing and computing machine, Combined. W. L. Gumprecht. No. 1,302,032; Apr. 29; v. 261; p. 851.
- Type-writing and computing machine, Combined. W. L. Gumprecht. No. 1,305,537; June 3; v. 263; p. 58.
- Type-writing and computing machine, Combined. H. Hanson. No. 1,291,859; Jan. 21; v. 258; p. 494.
- Type-writing and computing machine, Combined. F. A. Hart. No. 1,296,659; Mar. 11; v. 260; p. 225.
- Type-writing and computing machine, Combined. F. A. Hart. No. 1,296,953; Mar. 11; v. 260; p. 293.
- Type-writing and computing machine, Combined. F. A. Hart. No. 1,302,159; Apr. 29; v. 261; p. 874.
- Type-writing and computing machine, Combined. F. A. Hart. No. 1,315,303; Sept. 9; v. 266; p. 162.
- Type-writing and computing machine, Combined. F. A. Hart. No. 1,325,469; Dec. 16; v. 269; p. 528.
- Type-writing and computing machine, Combined. R. F. Hoyt. No. 1,298,720; Apr. 1; v. 261; p. 23.
- Type-writing and computing machine, Combined. C. H. Hunter. No. 1,323,283; Dec. 2; v. 269; p. 11.
- Type-writing and computing machine, Combined. O. L. Ingram. No. 1,302,050; Apr. 29; v. 261; p. 854.
- Type-writing and computing machine, Combined. A. A. Johnson. No. 1,304,570; May 27; v. 262; p. 496.
- Type-writing and computing machine, Combined. A. A. Johnson. No. 1,304,776; May 27; v. 262; p. 535.
- Type-writing and computing machine, Combined. A. A. Johnson. No. 1,309,854; July 15; v. 264; p. 406.
- Type-writing and computing machine, Combined. H. L. Pitman. No. 1,308,506; July 1; v. 264; p. 91.
- Type-writing and computing machine, Combined. H. Whitling. No. 1,308,133; July 1; v. 264; p. 23.
- Type-writing and computing machine, Combined. F. A. Robinson. No. 1,292,070; Jan. 21; v. 258; p. 549.
- Type-writing and computing machine, Combined. F. A. Robinson. No. 1,294,537; Feb. 18; v. 259; p. 431.
- Type-writing and computing machine, Combined. W. G. Sheldon. No. 1,293,219; Feb. 4; v. 259; p. 56.
- Type-writing and computing machine, Combined. A. W. Steiger. No. 1,299,052; Apr. 1; v. 261; p. 100.
- Type-writing and computing machine, Combined. B. C. Stickney. No. 1,293,234; Feb. 4; v. 259; p. 59.
- Type-writing and computing machine, Combined. E. Thomas. No. 1,292,151; Jan. 21; v. 258; p. 569.
- Type-writing and computing machine, Combined. E. Thomas. No. 1,294,727; Feb. 18; v. 259; p. 474.
- Type-writing and computing machine, Combined. E. Thomas. No. 1,297,037; Mar. 11; v. 260; p. 312.
- Type-writing and computing machine, Combined. E. Thomas and B. C. Stickney. No. 1,292,538; Jan. 28; v. 258; p. 681.
- Type-writing and computing machine, Combined. A. J. Wood. No. 1,299,646; Apr. 8; v. 261; p. 262.
- Type-writing and like machines, Process and apparatus for treating type-bars for. H. E. Bridgwater. No. 1,308,329; July 1; v. 264; p. 59.
- Type-writing and printing machine, Combined. T. de Rooode. No. 1,292,724; Jan. 28; v. 258; p. 727.
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- Type-writing machine. N. H. Anderson. No. 1,312,821; Aug. 12; v. 265; p. 215.

- Type-writing machine. N. H. Anderson. No. 1,317,411; Sept. 30; v. 266; p. 652.
- Type-writing machine. J. H. Barr. No. 1,300,687; Apr. 15; v. 261; p. 514.
- Type-writing machine. J. H. Barr. No. 1,311,675; July 29; v. 264; p. 806.
- Type-writing machine. J. H. Barr. No. 1,320,034; Oct. 28; v. 267; p. 561.
- Type-writing machine. M. Blodgett. No. 1,308,980; July 8; v. 264; p. 207.
- Type-writing machine. H. E. Bridgwater. No. 1,308,328; July 1; v. 264; p. 59.
- Type-writing machine. A. J. Briggs. No. 1,326,474; Dec. 30; v. 269; p. 770.
- Type-writing machine. L. S. Burridge. No. 1,297,085; Mar. 11; v. 260; p. 322.
- Type-writing machine. L. S. Burridge. No. 1,309,316; July 8; v. 264; p. 270.
- Type-writing machine. L. S. Burridge. No. 1,310,000; July 15; v. 246; p. 433.
- Type-writing machine. L. S. Burridge. No. 1,317,482; Sept. 30; v. 266; p. 665.
- Type-writing machine. L. S. Burridge. No. 1,322,530; Nov. 25; p. 268; p. 575.
- Type-writing machine. S. M. Byrd. No. 1,318,435; Oct. 14; v. 267; p. 209.
- Type-writing machine. P. de Clamecy. No. 1,315,013; Sept. 2; v. 266; p. 99.
- Type-writing machine. P. de Clamecy. No. 1,317,485; Sept. 30; v. 266; p. 666.
- Type-writing machine. J. L. Cone. No. 1,301,911; Apr. 29; v. 261; p. 828.
- Type-writing machine. F. A. Cook. No. 1,306,950; June 17; v. 263; p. 386.
- Type-writing machine. C. B. Corcoran. No. 1,294,622; Feb. 18; v. 259; p. 450.
- Type-writing machine. C. B. Corcoran. No. 1,312,161; Aug. 5; v. 265; p. 58.
- Type-writing machine. C. B. Corcoran. No. 1,312,162; Aug. 5; v. 265; p. 58.
- Type-writing machine. C. B. Corcoran. No. 1,325,980; Dec. 23; v. 269; p. 641.
- Type-writing machine. L. P. Diss. No. 1,322,676; Nov. 25; v. 268; p. 603.
- Type-writing machine. J. C. Doane. No. 1,322,548; Nov. 25; v. 268; p. 579.
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- Type-writing machine. E. B. Hess and L. C. Myers. No. 1,290,989; Jan. 14; v. 258; p. 259.
- Type-writing machine. E. B. Hess and L. C. Myers. No. 1,304,682; May 27; v. 262; p. 517.
- Type-writing machine. F. W. Hillard. No. 1,296,957; Mar. 11; v. 260; p. 294.
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- Type-writing machine. J. A. Wherry. No. 1,300,905; Apr. 15; v. 261; p. 561.
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- Unit, Apparatus. W. E. Rooth. No. 1,324,792; Dec. 16; v. 269; p. 404.
- Unit-frame. J. O. Ellinger. No. 1,293,061; Feb. 4; v. 259; p. 21.
- Unit, Projection light. J. W. Legg. No. 1,325,254; Dec. 16; v. 269; p. 489.
- Unit, Yielding. G. G. Hinsdale. No. 1,317,788; Oct. 7; v. 267; p. 24.
- Universal adjustable support. U. A. Tavi. No. 1,300,045; Apr. 8; v. 261; p. 351.
- Universal coupling. A. T. Keller. No. 1,300,733; Apr. 15; v. 261; p. 524.
- Universal driving-joint. J. V. Munger. No. 1,305,302; June 3; v. 263; p. 14.
- Universal joint. B. A. Alperin. No. 1,317,344; Sept. 30; v. 266; p. 639.
- Universal joint. E. W. Chalifoux. No. 1,311,679; July 29; v. 264; p. 807.
- Universal joint. C. J. Christensen. No. 1,323,451; Dec. 2; v. 269; p. 43.
- Universal joint. M. J. Cooney and H. J. Bender. No. 1,291,418; Jan. 14; v. 258; p. 359.
- Universal joint. G. V. Curtis. No. 1,323,023; Nov. 25; v. 268; p. 668.
- Universal joint. N. G. Dunkinson. No. 1,305,259; June 3; v. 263; p. 5.
- Universal joint. H. J. Edwards. No. 1,316,563; Sept. 23; v. 266; p. 457.
- Universal joint. H. J. Graham. No. 1,315,604; Sept. 9; v. 266; p. 216.
- Universal joint. E. J. Hardy. No. 1,290,551; Jan. 7; v. 258; p. 129.
- Universal joint. E. J. Hardy. No. 1,296,796; Mar. 11; v. 260; p. 256.
- Universal joint. W. D. Herwig, Jr. No. 1,318,148; Oct. 7; v. 267; p. 93.
- Universal joint. C. E. Johnson. No. 1,310,239; July 15; v. 264; p. 476.

- Universal joint. F. Kiehne. No. 1,307,674; June 24; v. 263; p. 550.
- Universal joint. J. P. Lavigne. No. 1,319,295; Oct. 21; v. 269; p. 398.
- Universal joint. J. P. Lavigne. No. 1,324,315; Dec. 9; v. 269; p. 250.
- Universal joint. G. A. McCombe. No. 1,307,743; June 24; v. 263; p. 563.
- Universal joint. F. W. Peters. No. 1,304,901; May 27; v. 262; p. 558.
- Universal joint. F. H. Ream. No. 1,297,968; Mar. 18; v. 260; p. 540.
- Universal joint. F. H. Ream. No. 1,322,341; Nov. 18; v. 268; p. 488.
- Universal joint. W. H. Thiemer. No. 1,324,479; Dec. 9; v. 269; p. 283.
- Universal joint. W. H. Thiemer. No. 1,324,480; Dec. 9; v. 269; p. 283.
- Universal joint. B. H. Urschel. No. 1,309,826; July 15; v. 264; p. 401.
- Universal joint. B. H. Urschel. No. 1,313,508; Aug. 16; v. 265; p. 363.
- Universal joint. F. G. Walker. No. 1,308,212; July 1; v. 264; p. 38.
- Universal joint. J. C. and I. S. Whisler. No. 1,294,583; Feb. 18; v. 259; p. 441.
- Universal joint. W. S. Wood. No. 1,290,825; Jan. 7; v. 258; p. 195.
- Universal-joint case. P. G. Bennett. No. 1,293,311; Feb. 4; v. 259; p. 79.
- Universal joint, Compound. A. L. Runyan. No. 1,304,103; May 20; v. 262; p. 367.
- Universal or like joint. E. M. Munro. No. 1,316,380; Sept. 16; v. 266; p. 373.
- Universal support. H. Hertz and G. C. Marx. No. 1,324,895; Dec. 16; v. 269; p. 422.
- Unloading and feeding apparatus. L. B. Pierson. No. 1,318,914; Oct. 14; v. 267; p. 300.
- Unloading and loading apparatus. F. L. Stuart. No. 1,314,615; Sept. 2; v. 266; p. 26.
- Unloading or discharging device. H. J. Craymer. No. 1,304,026; May 20; v. 262; p. 354.
- Unloading-skid. C. F. Dallman and F. Schoepke. No. 1,298,905; Apr. 1; v. 261; p. 67.
- Unwinding device. C. A. Brink. No. 1,317,544; Sept. 30; v. 266; p. 677.
- Upholstery. C. Madsen. No. 1,323,370; Dec. 2; v. 269; p. 28.
- Upholstery back-spring construction. L. A. Young. No. 1,301,778; Apr. 22; v. 261; p. 773.
- Upholstery-mounting. H. L. Shepler. No. 1,298,803; Apr. 1; v. 261; p. 44.
- Upholstery spring construction. W. D. McCullough and T. Mahoney. No. 1,298,747; Apr. 1; v. 261; p. 30.
- Upholstery spring construction. C. R. Stickney. No. 1,299,871; Apr. 8; v. 261; p. 314.
- Upholstery spring construction. L. A. Young. No. 1,299,890; Apr. 8; v. 261; p. 318.
- Upholstery spring construction. L. A. Young. No. 1,302,119; Apr. 29; v. 261; p. 867.
- Upholstery-spring construction. L. A. Young. No. 1,325,844; Dec. 16; v. 269; p. 506.
- Upper-pulling mechanism. T. H. Seely. No. 1,305,218; May 27; v. 262; p. 618.
- Upper-stretching machine. A. L. Russell and C. E. Grush. No. 1,313,918; Aug. 26; v. 265; p. 474.
- Upsetting-die. W. J. Gibbons. No. 1,297,141; Mar. 11; v. 260; p. 334.
- Upsetting-machine. T. H. and A. L. Proske. No. 1,322,612; Nov. 25; v. 268; p. 591.
- Urea manufacture. K. Neresheimer, C. Bosch, and A. Mittasch. No. 1,292,019; Jan. 21; v. 258; p. 536.
- Urinal. G. F. Duffey. No. 1,304,752; May 27; v. 262; p. 530.
- Urinal-closet combination-range, Ventilated. N. Frost. No. 1,303,648; May 13; v. 262; p. 246.
- Urinal for females. E. P. Thieringer. No. 1,296,713; Mar. 11; v. 260; p. 238.
- Urn, Beverage. O. A. Kittinger. No. 1,300,175; Apr. 8; v. 261; p. 380.
- Urn heater, Russian tea-. No. 1,317,403; Sept. 30; v. 266; p. 650.
- Utensil and strainer, Combined. F. Lyttle. No. 1,319,017; Oct. 14; v. 267; p. 320.
- V-block. C. F. Deck. No. 1,306,254; June 10; v. 263; p. 225.
- Vacuum apparatus. T. McConnell. No. 1,314,409; Aug. 26; v. 265; p. 569.
- Vacuum casting-machine. L. R. Curtis. No. 1,300,821; Apr. 15; v. 261; p. 544.
- Vacuum-cleaner. L. D. Ascoli. No. 1,324,635; Dec. 9; v. 269; p. 312.
- Vacuum-cleaner. H. L. Boyle. No. 1,299,547; Apr. 8; v. 261; p. 239.
- Vacuum-cleaner. C. L. Goughnour. No. 1,316,442; Sept. 16; v. 266; p. 385.
- Vacuum-cleaner. G. C. Kelley. No. 1,318,881; Oct. 14; v. 267; p. 294.
- Vacuum-cleaner. J. B. Kirby. No. 1,294,473; Feb. 18; v. 259; p. 416.
- Vacuum-cleaner. F. C. Mason. No. 1,302,102; Apr. 29; v. 261; p. 880.
- Vacuum-cleaner. J. J. Power. No. 1,317,457; Sept. 30; v. 266; p. 661.
- Vacuum-cleaner. D. B. Replogle. No. 1,292,963; Jan. 28; v. 258; p. 782.
- Vacuum-cleaner collecting-bag. F. J. Wagner. No. 1,302,886; May 6; v. 262; p. 78.
- Vacuum-cleaner hose-pipe. D. B. Replogle. No. 1,293,926; Feb. 11; v. 259; p. 252.
- Vacuum-cleaners. Dust-collecting receptacle for. M. S. Wright. No. 1,317,646; Sept. 30; v. 266; p. 697.
- Vacuum cleaning device. C. W. Stewart. No. 1,323,925; Dec. 2; v. 269; p. 132.
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- Vacuum fuel-feed device. W. A. Edwards. No. 1,321,296; Nov. 11; v. 263; p. 241.
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- Vacuum lifting device. H. K. Hitchcock. No. 1,294,103; Feb. 11; v. 259; p. 294.
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- Valve-actuating means for water-closet apparatus. W. U. Griffiths. No. 1,318,864; Oct. 14; v. 267; p. 291.
- Valve-actuating mechanism for dispensing or weighing apparatus. F. B. Chambers. No. 1,296,921; Mar. 11; v. 260; p. 286.
- Valve, Adjustable. C. S. Kellum. No. 1,324,196; Dec. 9; v. 269; p. 228.
- Valve, Air-compressor. S. Z. Nichols. No. 1,291,609; Jan. 14; v. 258; p. 403.
- Valve, Air-exhaust and vacuum seal. L. F. Ostrander. No. 1,291,099; Jan. 14; v. 258; p. 286.
- Valve and cap for tank-cars. Outlet. G. G. Olson. No. 1,290,302; Jan. 7; v. 258; p. 70.
- Valve and controlling means therefor. G. Wright. No. 1,319,502; Oct. 21; v. 267; p. 438.
- Valve and filler-plug, Combined air. A. H. Bicker. No. 1,319,136; Oct. 21; v. 267; p. 367.
- Valve and gage, Compressed-air. C. B. Earnheart. No. 1,305,260; June 3; v. 263; p. 6.
- Valve and gage, Compressed-air. C. B. Earnheart. No. 1,305,261; June 3; v. 263; p. 6.
- Valve and gage, Compressed-air. C. B. Earnheart. No. 1,305,262; June 3; v. 263; p. 6.
- Valve and ignition mechanism for gas-stoves. J. Whalen. No. 1,312,655; Aug. 12; v. 265; p. 182.
- Valve and lock therefor, Combined. T. F. Noonan. No. 1,322,721; Nov. 25; v. 268; p. 611.
- Valve and making the same. A. O. Dady. No. 1,294,416; Feb. 18; v. 259; p. 403.
- Valve and means for cooling same. A. O. Dady. No. 1,306,470; June 10; v. 263; p. 265.
- Valve and means for cooling same, Exhaust. A. O. Dady. No. 1,306,471; June 10; v. 263; p. 265.
- Valve and oil-burner, Combination. L. C. Fraser. No. 1,304,299; May 20; v. 262; p. 405.
- Valve and operating mechanism for internal-combustion engines. J. V. and L. R. Lewis. No. 1,295,774; Feb. 25; v. 259; p. 739.
- Valve and operating mechanism for tank-cars, Outlet. G. E. Mittinger. No. 1,301,729; Apr. 22; v. 261; p. 762.
- Valve and rim, Automatic. H. B. Eads. No. 1,300,935; Apr. 15; v. 261; p. 568.
- Valve and sealing same. R. W. and A. J. Pocock. No. 1,292,962; Jan. 28; v. 258; p. 782.
- Valve and trap for wet lines, Thermal. S. Lippert. No. 1,310,026; July 15; v. 264; p. 438.
- Valve and valve-gear for internal-combustion and other engines. J. Zeitlin. No. 1,292,215; Jan. 21; v. 258; p. 584.
- Valve and valve mechanism. H. O. Wilkinson. No. 1,309,081; July 8; v. 264; p. 226.
- Valve and valve-seat grinder. H. McLean. No. 1,290,766; Jan. 7; v. 258; p. 182.
- Valve apparatus for locomotives, Drifting. H. G. Becker. No. 1,311,034; July 22; v. 264; p. 654.
- Valve apparatus, Throttle. J. C. Chambers. No. 1,307,114; June 17; v. 263; p. 416.
- Valve, Automatic. W. M. Chace. No. 1,323,830; Dec. 2; v. 269; p. 114.
- Valve, Automatic. R. D. Johnson. No. 1,319,154; Oct. 21; v. 267; p. 373.
- Valve, Automatic. G. A. Triggs. No. 1,295,638; Feb. 25; v. 259; p. 708.
- Valve cap, Air. W. H. Cotton and C. H. Kehm. No. 1,326,647; Dec. 30; v. 269; p. 803.
- Valve, Automatic air. E. J. Riley. No. 1,292,062; Jan. 21; v. 258; p. 547.
- Valve, Automatic alarm. A. Lehmann. No. 1,309,362; July 8; v. 264; p. 278.
- Valve, Automatic brake-applying safety. J. E. Stiegel-meyer. No. 1,306,504; June 10; v. 263; p. 271.
- Valve, Automatic closet. G. H. Steuer. No. 1,322,645; Nov. 25; v. 268; p. 597.
- Valve, Automatic cut-out. W. V. Turner. No. 1,297,509; Mar. 18; v. 260; p. 441.
- Valve, Automatic gage-glass. A. J. Hockman. No. 1,302,045; Apr. 29; v. 261; p. 853.
- Valve, Automatic relief. J. Penrose and E. A. Ploeger. No. 1,290,335; Jan. 7; v. 258; p. 78.
- Valve, Automatic relief. L. N. Vincent. No. 1,291,292; Jan. 14; v. 258; p. 329.
- Valve, Automatic safety. A. E. Ruchy. No. 1,308,684; July 1; v. 264; p. 124.
- Valve, Automatic slide. J. J. Stafford, H. C. Rhodachamel, and E. J. Schoenlaub. No. 1,315,797; Sept. 9; v. 266; p. 250.
- Valve, Automatic vacuum closing. M. T. Vandervoort. No. 1,302,104; Apr. 29; v. 261; p. 864.
- Valve, Auxiliary air. J. Baillie. No. 1,320,441; Nov. 4; v. 268; p. 16.
- Valve, Back-pressure release. H. D. Williams. No. 1,307,839; June 24; v. 263; p. 580.
- Valve, Back-pressure unloading. W. Ehrlich. No. 1,321,901; Nov. 18; v. 268; p. 405.
- Valve, Balanced. J. R. Sayward. No. 1,321,673; Nov. 11; v. 268; p. 312.

- Valve, Balanced. F. Teichman. No. 1,305,026; May 27; v. 262; p. 581.
- Valve, Balanced. B. Thoens. No. 1,320,944; Nov. 4; v. 268; p. 110.
- Valve ball-cock, Muffler. J. C. Owens. No. 1,313,831; Aug. 19; v. 265; p. 424.
- Valve, Blow-off. R. W. Cadman. No. 1,298,173; Mar. 25; v. 260; p. 609.
- Valve, Blow-off. R. W. Foster. No. 1,299,452; Apr. 8; v. 261; p. 218.
- Valve, Brake-application-retarding. W. V. Turner. No. 1,294,973; Feb. 18; v. 259; p. 531.
- Valve, Brine-retaining. G. F. Laughlin. No. 1,308,086; July 1; v. 264; p. 15.
- Valve-cages of internal-combustion motors, Tool for removing overhead. C. E. Peterson. No. 1,298,253; Mar. 25; v. 260; p. 627.
- Valve-cap. H. Fuchs. No. 1,297,824; Mar. 18; v. 260; p. 509.
- Valve-cap and the like. E. E. Holt. No. 1,318,873; Oct. 14; v. 267; p. 292.
- Valve-casings for wind musical instruments, Making. E. J. Gulick. No. 1,301,935; Apr. 29; v. 261; p. 833.
- Valve, Check. C. L. Barker. No. 1,297,312; Mar. 18; v. 260; p. 401.
- Valve, Check. H. G. J. Deinert. No. 1,311,642; July 29; v. 264; p. 800.
- Valve, Check. H. O. Jackson. No. 1,297,296; Mar. 11; v. 260; p. 368.
- Valve, Check. F. W. Leidecker. No. 1,325,568; Dec. 23; v. 269; p. 564.
- Valve, Check. G. A. Parker. No. 1,322,938; Nov. 25; v. 268; p. 651.
- Valve, Check. W. F. Roper. No. 1,300,653; Apr. 15; v. 261; p. 507.
- Valve cock, Automatic safety-spring and ball. P. C. Morris. No. 1,317,885; Oct. 7; v. 267; p. 43.
- Valve, Combination. A. Teisseire. No. 1,315,054; Sept. 2; v. 266; p. 107.
- Valve, Combined air and decarbonizing. A. de Clairmont. No. 1,296,922; Mar. 11; v. 260; p. 286.
- Valve, Combined check and compression. A. I. Fischer. No. 1,311,115; July 22; v. 264; p. 669.
- Valve, Combined check and cut-off. H. F. Laubach. No. 1,291,939; Jan. 21; v. 258; p. 516.
- Valve, Combined fuel and air. G. F. Bibb. No. 1,299,900; Apr. 8; v. 261; p. 320.
- Valve, Combined inlet and exhaust. V. H. Palm. No. 1,325,904; Dec. 23; v. 269; p. 627.
- Valve, Compound. J. C. Cherry. No. 1,319,755; Oct. 28; v. 267; p. 509.
- Valve, Compound. J. W. Grantland. No. 1,305,715; June 3; v. 263; p. 92.
- Valve construction. E. Bush. No. 1,307,391; June 24; v. 263; p. 499.
- Valve construction. L. A. Lang. No. 1,302,385; Apr. 29; v. 261; p. 917.
- Valve construction. P. G. MacGregor. No. 1,326,358; Dec. 30; v. 269; p. 748.
- Valve construction. C. M. Wilson. No. 1,291,330; Jan. 14; v. 258; p. 337.
- Valve construction for water distribution. J. A. Hoar. No. 1,317,789; Oct. 7; v. 267; p. 24.
- Valve construction, Motor. F. G. Lynde. No. 1,311,660; July 29; v. 264; p. 804.
- Valve control, Automatic. J. W. F. Macdonald. No. 1,299,850; Apr. 8; v. 261; p. 309.
- Valve control, Emergency fuel. H. J. Long. No. 1,325,896; Dec. 23; v. 269; p. 626.
- Valve control for hard and soft water systems, Automatic. G. E. Anderson. No. 1,290,037; Jan. 7; v. 258; p. 6.
- Valve control in liquid-tanks. J. E. Atkinson. No. 1,297,985; Mar. 25; v. 260; p. 569.
- Valve-control system. A. T. Marshall. No. 1,326,603; Dec. 30; v. 269; p. 795.
- Valve-controller, Automatic. G. R. Richardson. No. 1,324,409; Dec. 9; v. 269; p. 269.
- Valve-controller, Automatic. W. E. Shively and K. B. Kilborn. No. 1,317,668; Sept. 30; v. 266; p. 701.
- Valve controlling and releasing device. R. F. Landis. No. 1,298,227; Mar. 25; v. 260; p. 621.
- Valve-controlling means for flush-tanks. W. H. Griffiths. No. 1,302,154; Apr. 29; v. 261; p. 873.
- Valve-controlling mechanism. J. N. Husher. No. 1,326,402; Dec. 30; v. 269; p. 756.
- Valve-controlling mechanism, Automatic. B. M. Roberds. No. 1,322,951; Nov. 25; v. 268; p. 654.
- Valve-cooling device. A. Illias. No. 1,294,911; Feb. 18; v. 259; p. 518.
- Valve, Coupling. T. E. Murray. No. 1,293,874; Feb. 11; v. 259; p. 240.
- Valve, Cut-off. L. T. Pearsall. No. 1,291,631; Jan. 14; v. 258; p. 409.
- Valve, Cut-off and drain. H. B. Fosler. No. 1,301,549; Apr. 22; v. 261; p. 727.
- Valve, Cut-off gate. F. P. Snow. No. 1,300,200; Apr. 8; v. 261; p. 385.
- Valve device. S. Shafer, Jr. No. 1,317,762; Oct. 7; v. 267; p. 19.
- Valve device, Brake-application. W. V. Turner. No. 1,309,787; July 15; v. 264; p. 394.
- Valve device, Cut-off. W. V. Turner. No. 1,297,510; Mar. 18; v. 260; p. 442.
- Valve device for fluid-pressure brakes, Booster. W. V. Turner. No. 1,294,972; Feb. 18; v. 259; p. 531.
- Valve device for locomotives, Drifting. R. M. Lickley. No. 1,301,853; Apr. 29; v. 261; p. 817.
- Valve device, Quick-release. W. V. Turner. No. 1,294,980; Feb. 18; v. 259; p. 533.
- Valve device, Straight-air emergency. W. V. Turner. No. 1,311,930; Aug. 5; v. 265; p. 15.
- Valve disk, Gate. O. L. Whiteman. No. 1,323,941; Dec. 2; v. 269; p. 135.
- Valve, Dispensing. W. E. Leibling. No. 1,299,586; Apr. 8; v. 261; p. 249.
- Valve-driving mechanism. P. P. Dean. No. 1,325,005; Dec. 16; v. 269; p. 442.
- Valve, Dry-pipe. E. M. Chandler. No. 1,299,679; Apr. 8; v. 261; p. 270.
- Valve, Dry-pipe. E. E. Clark. No. 1,291,411; Jan. 14; v. 258; p. 358.
- Valve, Dry-pipe. E. E. Clark. No. 1,300,698; Apr. 15; v. 261; p. 517.
- Valve, Dry-pipe. P. Evans. No. 1,302,144; Apr. 29; v. 261; p. 872.
- Valve, Dry-pipe. A. J. Gross. No. 1,311,388; July 29; v. 264; p. 753.
- Valve, Dry-pipe. A. J. Gross. No. 1,320,389; Nov. 4; v. 268; p. 6.
- Valve, Duplex lift. J. C. Thompson. No. 1,319,437; Oct. 21; v. 267; p. 425.
- Valve, Electrically-heated spray. H. O. Baker. No. 1,323,999; Dec. 2; v. 269; p. 146.
- Valve, Electrically-operated. J. E. Davidson and C. Holland. No. 1,307,899; June 24; v. 263; p. 591.
- Valve, Electrically-operated fuel. H. Lemp. No. 1,323,778; Dec. 2; v. 269; p. 104.
- Valve, Electron. S. P. Doule. No. 1,291,441; Jan. 14; v. 258; p. 364.
- Valve, Emergency. E. W. Schroeder. No. 1,325,334; Dec. 16; v. 269; p. 504.
- Valve, Emergency. C. Widmann. No. 1,295,658; Feb. 25; v. 259; p. 713.
- Valve, Emergency shut-off. R. L. Smith. No. 1,300,301; Apr. 15; v. 261; p. 433.
- Valve, Engine. L. R. Horn. No. 1,312,730; Aug. 12; v. 265; p. 196.
- Valve, Engine. E. J. A. Schultz. No. 1,297,407; Mar. 18; v. 260; p. 420.
- Valve, Equalizing. B. Thoens. No. 1,290,803; Jan. 7; v. 258; p. 190.
- Valve, Expansion. B. S. McClellan. No. 1,300,182; Apr. 8; v. 261; p. 381.
- Valve, Expansion. F. W. Wolf. No. 1,314,234; Aug. 26; v. 265; p. 534.
- Valve-facing device. C. C. Koehler. No. 1,317,195; Sept. 30; v. 266; p. 611.
- Valve, Feed-controlling float. M. Leitch. No. 1,316,583; Sept. 23; v. 266; p. 461.
- Valve-fishing tool. F. F. Brucker. No. 1,308,219; July 1; v. 264; p. 89.
- Valve, Float. J. T. Brien. No. 1,312,678; Aug. 12; v. 265; p. 186.
- Valve, Float. K. L. Burrill. No. 1,323,960; Dec. 2; v. 269; p. 139.
- Valve, Float. De L. K. Cook. No. 1,310,560; July 22; v. 264; p. 566.
- Valve, Float. W. A. Guider. No. 1,318,989; Oct. 14; v. 267; p. 315.
- Valve, Float. B. J. Olson. No. 1,324,844; Dec. 16; v. 269; p. 413.
- Valve, Float-controlled. G. T. Blanning. No. 1,290,883; Jan. 14; v. 258; p. 234.
- Valve, Fluid-control. C. H. Smoot. No. 1,311,536; July 29; v. 264; p. 781.
- Valve, Fluid-control. C. H. Smoot. No. 1,322,207; Nov. 18; v. 268; p. 462.
- Valve, Fluid-line-pressure-regulating. E. J. Fries and T. F. Dickey. No. 1,298,195; Mar. 25; v. 260; p. 614.
- Valve, Fluid-pressure. G. S. Thompson. No. 1,304,409; May 20; v. 262; p. 426.
- Valve, Fluid-pressure. T. L. Titus. No. 1,319,022; Oct. 14; v. 267; p. 322.
- Valve, Fluid-pressure-actuated. M. L. Harned. No. 1,291,862; Jan. 21; v. 258; p. 495.
- Valve, Fluid-pressure-actuated. J. W. Mitchell. No. 1,307,207; June 17; v. 263; p. 432.
- Valve, Fluid-regulating. T. S. Leese. No. 1,314,003; Aug. 26; v. 265; p. 490.
- Valve, Flush. E. J. Bloom. No. 1,323,519; Dec. 2; v. 269; p. 56.
- Valve, Flush. C. A. Bubb. No. 1,307,576; June 24; v. 263; p. 533.
- Valve, Flush. E. F. Donnelly. No. 1,299,692; Apr. 8; v. 261; p. 273.
- Valve, Flush. W. R. Hursey. No. 1,314,873; Sept. 2; v. 266; p. 74.
- Valve, Flush. W. Mouat. No. 1,320,565; Nov. 4; v. 268; p. 39.
- Valve, Flush. A. N. Pasman. No. 1,300,001; Apr. 8; v. 261; p. 341.
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- Valve, Flush-. C. H. Wells. No. 1,309,230; July 8; v. 264; p. 254.
- Valve, Flush-tank. F. J. Dowling. No. 1,300,138; Apr. 8; v. 261; p. 372.
- Valve, Flush-tank. E. R. Hill. No. 1,294,908; Feb. 18; v. 259; p. 517.
- Valve, Flush-tank. C. T. Miller. No. 1,319,785; Oct. 28; v. 267; p. 515.
- Valve, Flush-tank. H. F. Richter. No. 1,315,331; Sept. 9; v. 266; p. 167.
- Valve, Flush-tank. S. S. Williamson. No. 1,304,432; May 20; v. 262; p. 431.
- Valve, Flushing-. D. E. Gulick. No. 1,297,836; Mar. 18; v. 260; p. 511.
- Valve, Flushing-. W. S. White. No. 1,311,365; July 29; v. 264; p. 749.
- Valve for air-brake apparatus, Air-retaining. S. G. Neal. No. 1,314,977; Sept. 2; v. 266; p. 93.
- Valve for air-brake apparatus, Change-over. S. G. Neal. No. 1,314,976; Sept. 2; v. 266; p. 92.
- Valve for air-brake apparatus, Triple. S. G. Neal. No. 1,314,972; Sept. 2; v. 266; p. 91.
- Valve for air-brake systems and attachment therefor, Triple. J. R. Snyder. No. 1,302,986; May 6; v. 262; p. 97.
- Valve for air-compressors. O. R. Wikander. No. 1,324,137; Dec. 9; v. 269; p. 216.
- Valve for air starter systems. J. F. Upton. No. 1,313,767; Aug. 19; v. 265; p. 412.
- Valve for boiler-feed apparatus, Float-. A. H. Anthony. No. 1,315,651; Sept. 9; v. 266; p. 223.
- Valve for bung-vents. J. B. Powles. No. 1,300,011; Apr. 8; v. 261; p. 343.
- Valve for carbureters, Float-. F. E. Hale and R. A. Dull. No. 1,295,306; Feb. 25; v. 259; p. 630.
- Valve for carbureters, Fuel-supply. W. J. Bowman. No. 1,299,904; Apr. 8; v. 261; p. 321.
- Valve for closet-tanks, Flushing-. F. W. Robertshaw. No. 1,292,518; Jan. 28; v. 258; p. 677.
- Valve for compressed-air drilling-machines, Automatic check-. C. C. Cheney. No. 1,298,007; Mar. 25; v. 260; p. 574.
- Valve for controlling the flow of gaseous mixtures, Automatic. H. S. Dodd. No. 1,311,328; July 29; v. 264; p. 742.
- Valve for domestic and farm water-tanks. J. P. Haffner. No. 1,302,033; Apr. 29; v. 261; p. 851.
- Valve for engines, Auxiliary air-. H. Klipstein. No. 1,325,791; Dec. 23; v. 269; p. 606.
- Valve for explosion-engines. O. E. Michaud. No. 1,301,477; Apr. 22; v. 261; p. 714.
- Valve for explosive-engines. J. P. Bergeron. No. 1,326,838; Dec. 30; v. 269; p. 839.
- Valve for explosive-engines. H. C. Raver. No. 1,308,112; July 1; v. 264; p. 19.
- Valve for explosive-engines, Rotary. A. Molstad. No. 1,326,682; Dec. 30; v. 269; p. 809.
- Valve for fire-extinguishing systems. C. H. Townsend. No. 1,299,065; Apr. 1; v. 261; p. 103.
- Valve for fire-hydrants, Drain-. W. W. Corey. No. 1,323,351; Dec. 2; v. 269; p. 24.
- Valve for fluid-dispensing apparatus, Sanitary. C. A. Coker. No. 1,301,229; Apr. 22; v. 261; p. 666.
- Valve for flush-tanks. C. A. Bubb. No. 1,309,507; July 8; v. 264; p. 305.
- Valve for flush-tanks. T. J. Gannon. No. 1,304,303; May 20; v. 262; p. 405.
- Valve for flushing-tanks and the like, Float-controlled. W. B. Ford. No. 1,313,889; Aug. 26; v. 265; p. 468.
- Valve for friction-clutch thrust-cylinders, Control-. W. Ferris. No. 1,290,150; Jan. 7; v. 258; p. 33.
- Valve for gas-engine manifolds, Automatic air-. A. C. Hugill. No. 1,303,817; May 13; v. 262; p. 278.
- Valve for gas-engines, Air-. G. H. Grounds. No. 1,299,571; Apr. 8; v. 261; p. 245.
- Valve for gas-engines, Mixing-. H. A. Thiel. No. 1,317,948; Oct. 7; v. 267; p. 54.
- Valve for gas-heating systems. N. W. Park. No. 1,302,841; May 6; v. 262; p. 69.
- Valve for hot-air accelerators. H. F. Du Chesne. No. 1,291,795; Jan. 21; v. 258; p. 478.
- Valve for hydraulic machinery, Automatic. J. Davidson. No. 1,300,703; Apr. 15; v. 261; p. 518.
- Valve for hydrocarbon-engines. R. Schmitz. No. 1,312,003; Aug. 5; v. 265; p. 28.
- Valve for inflating bodies. H. R. Gill. No. 1,315,955; Sept. 16; v. 266; p. 294.
- Valve for inflating various bodies, Pneumatic or air. T. H. Fewlass. No. 1,326,445; Dec. 30; v. 269; p. 765.
- Valve for internal-combustion engines. A. O. Dady. No. 1,294,417; Feb. 18; v. 259; p. 403.
- Valve for internal-combustion engines. A. O. Dady. No. 1,306,175; June 10; v. 263; p. 208.
- Valve for internal-combustion engines and making same. J. H. Gould and M. E. Konigslow. No. 1,295,979; Mar. 4; v. 260; p. 36.
- Valve for internal-combustion engines, Automatic air-. A. L. Wagniere. No. 1,301,340; Apr. 22; v. 261; p. 689.
- Valve for internal-combustion engines, Auxiliary air-. J. Hanman. No. 1,298,935; Apr. 1; v. 261; p. 73.
- Valve for internal-combustion engines, Braking-. W. I. Smilh. No. 1,310,094; July 15; v. 264; p. 450.
- Valve for internal-combustion engines, Fuel-. J. H. Brown. No. 1,315,462; Sept. 9; v. 266; p. 191.
- Valve for internal-combustion engines, Starting-. H. E. Fenchelle. No. 1,294,078; Feb. 11; v. 259; p. 288.
- Valve for liquid-fuel engines, Spray-. P. L. Scott. No. 1,295,612; Feb. 25; v. 259; p. 702.
- Valve for locomotive-blowers, Automatic. C. L. Mellor. No. 1,291,064; Jan. 14; v. 258; p. 278.
- Valve for locomotives, Automatic fountain-. E. N. Yeamans. No. 1,302,749; May 6; v. 262; p. 50.
- Valve for oil-engines. E. B. Blakely. No. 1,296,614; Mar. 11; v. 260; p. 215.
- Valve for presses, Automatic change-. H. Slater. No. 1,321,856; Nov. 18; v. 268; p. 397.
- Valve for refrigerating systems. C. R. Meston. No. 1,302,948; May 6; v. 262; p. 89.
- Valve for steam-boilers, Feed-water-regulating. J. N. Ellis. No. 1,313,373; Aug. 19; v. 265; p. 337.
- Valve for toilets, Automatic self-closing flush-. H. L. Hardy. No. 1,297,563; Mar. 18; v. 260; p. 453.
- Valve for torpedoes, Starting-. W. Dieter. No. 1,303,045; May 6; v. 262; p. 108.
- Valve for use with corrosive liquids. C. T. Dally. No. 1,311,954; Aug. 5; v. 265; p. 19.
- Valve for vacuum-operated power means, Controlling-. H. C. Root. No. 1,321,150; Nov. 11; v. 268; p. 213.
- Valve for vapor, vacuum, and steam heating systems, Supply-. L. F. Ostrander. No. 1,297,229; Mar. 11; v. 260; p. 353.
- Valve for waste-conveyers, Injector-. L. E. Jones. No. 1,316,449; Sept. 16; v. 266; p. 387.
- Valve, Four-way. E. E. Minard. No. 1,300,220; Apr. 8; v. 261; p. 390.
- Valve, Four-way. E. E. Minard. No. 1,317,211; Sept. 30; v. 266; p. 614.
- Valve, Free-flow and packingless. E. Dembowsky. No. 1,312,839; Aug. 12; v. 265; p. 218.
- Valve, Gas and air mixing. D. O. Barrett. No. 1,298,677; Jan. 28; v. 258; p. 716.
- Valve, Gas-engine. B. R. Nyhagen. No. 1,318,227; Oct. 7; v. 267; p. 109.
- Valve gas-engine, Rotary-. J. F. Pagendarm. No. 1,308,722; July 1; v. 264; p. 131.
- Valve, Gas-regulating. H. C. Maul. No. 1,319,782; Oct. 28; v. 267; p. 514.
- Valve, Gate-. L. S. Keeler and J. F. Brightman. No. 1,294,112; Feb. 11; v. 259; p. 296.
- Valve, Gate-. G. F. Weber. No. 1,324,990; Dec. 16; v. 269; p. 440.
- Valve, Gate-. O. L. Whiteman. No. 1,304,228; May 20; v. 262; p. 391.
- Valve-gear. E. F. Christiani. No. 1,298,008; Mar. 25; v. 260; p. 574.
- Valve-gear. L. Coatalen. No. 1,306,949; June 17; v. 263; p. 386.
- Valve-gear. P. Emden. No. 1,304,286; May 20; v. 262; p. 402.
- Valve-gear. R. H. Rice. No. 1,297,249; Mar. 11; v. 260; p. 357.
- Valve-gear. S. Rosenzweig. No. 1,298,796; Apr. 1; v. 261; p. 42.
- Valve-gear. S. Rosenzweig. No. 1,323,788; Dec. 2; v. 269; p. 106.
- Valve-gear. S. Rosenzweig. No. 1,323,789; Dec. 2; v. 269; p. 106.
- Valve-gear device. J. B. Kingan and H. F. Ripken. (Re-issue.) No. 14,624; Apr. 1; v. 261; p. 181.
- Valve-gear for internal-combustion engines. A. L. F. Wattel. No. 1,303,748; May 13; v. 262; p. 265.
- Valve-gear for combustion-engines, Compressed-air starting and reversing. T. F. Methven. No. 1,318,897; Oct. 14; v. 267; p. 297.
- Valve-gear mechanism. J. C. Glenn. No. 1,306,332; June 10; v. 263; p. 240.
- Valve-gear of internal-combustion engines. C. B. Redrup. No. 1,312,577; Aug. 12; v. 265; p. 167.
- Valve-gear of internal-combustion engines, Lubricating means for. F. H. Royce. No. 1,298,099; Mar. 25; v. 260; p. 593.
- Valve gear, Reversing-. H. O. Baker. No. 1,314,847; Sept. 2; v. 266; p. 69.
- Valve-gear, Rotary. E. R. Hobbs. No. 1,295,165; Feb. 25; v. 259; p. 598.
- Valve-gear, Steam-engine. H. D. Glidden. No. 1,324,661; Dec. 9; v. 269; p. 317.
- Valve, Globe-. O. A. Labus. No. 1,301,278; Apr. 22; v. 261; p. 676.
- Valve, Globe-. W. F. Walsh. No. 1,326,430; Dec. 30; v. 269; p. 761.
- Valve, Governing-. F. L. Page. No. 1,294,151; Feb. 11; v. 259; p. 305.
- Valve, Governor-. C. J. Olson. No. 1,293,895; Feb. 11; v. 259; p. 245.
- Valve, Graduate-control. P. G. Franold. No. 1,315,741; Sept. 9; v. 266; p. 240.
- Valve-grinder. H. H. Blanchard. No. 1,318,311; Oct. 7; v. 267; p. 125.
- Valve-grinder. W. O. Brown. No. 1,314,851; Sept. 2; v. 266; p. 70.

- Valve-grinder. H. M. Crowther. No. 1,314,949; Sept. 2; v. 266; p. 87.
- Valve-grinder. A. Cuoghi. No. 1,315,909; Sept. 9; v. 266; p. 271.
- Valve-grinder. F. J. Derifield. No. 1,325,835; Dec. 23; v. 269; p. 614.
- Valve-grinder. J. J. Gorman. No. 1,295,303; Feb. 25; v. 259; p. 629.
- Valve-grinder. J. H. Just. No. 1,313,601; Aug. 19; v. 265; p. 381.
- Valve-grinder. A. W. Larson. No. 1,313,490; Aug. 19; v. 265; p. 359.
- Valve-grinder. M. A. Persons and C. G. Farmer. No. 1,301,165; Apr. 22; v. 261; p. 653.
- Valve-grinder. C. D. Rosecrans. No. 1,299,231; Apr. 1; v. 261; p. 139.
- Valve-grinder, Electric. B. F. Stenman. No. 1,294,318; Feb. 11; v. 259; p. 344.
- Valve-grinder, Hand. C. E. Tideman. No. 1,306,932; June 17; v. 263; p. 382.
- Valve-grinder, Portable. B. F. Stenman. No. 1,300,669; Apr. 15; v. 261; p. 510.
- Valve-grinder, Power-driven. C. E. Tideman. No. 1,318,707; Oct. 14; v. 267; p. 261.
- Valve-grinders, Driving mechanism for. W. S. Scoville. No. 1,324,280; Dec. 9; v. 269; p. 244.
- Valve grinding and reseating tool. T. J. McMeekin. No. 1,325,759; Dec. 30; v. 269; p. 824.
- Valve-grinding device. J. C. Lohec. No. 1,293,133; Feb. 4; v. 259; p. 37.
- Valve-grinding machine. P. A. Udall. No. 1,295,940; Mar. 4; v. 260; p. 27.
- Valve-grinding mechanism. H. S. Douglass. No. 1,309,603; July 8; v. 264; p. 324.
- Valve-grinding tool. C. M. Bruce. No. 1,310,278; July 15; v. 264; p. 483.
- Valve-grinding tool. W. De Vault. No. 1,305,200; May 27; v. 262; p. 615.
- Valve-grinding tool. H. F. Gellerman. No. 1,307,296; June 17; v. 263; p. 449.
- Valve-grinding tool. W. E. Mowers. No. 1,314,012; Aug. 26; v. 265; p. 492.
- Valve-grinding tool. J. C. Trapp. No. 1,315,801; Sept. 9; v. 266; p. 251.
- Valve-grinding tool. W. S. Wadsworth. No. 1,310,640; July 22; v. 264; p. 581.
- Valve-grinding tools, Operating means for. A. D. Goodwin. No. 1,326,190; Dec. 30; v. 269; p. 717.
- Valve-handle. F. Le Roy and N. W. Whitbeck. No. 1,323,195; Nov. 25; v. 268; p. 701.
- Valve, High-pressure safety-. J. Acebal. No. 1,290,030; Jan. 7; v. 258; p. 4.
- Valve, Hot-blast. E. E. Slick and F. H. Moyer. No. 1,323,328; Dec. 2; v. 269; p. 20.
- Valve, Hydraulic. C. A. Mills. No. 1,293,858; Feb. 11; v. 259; p. 237.
- Valve, Hydro-steam. D. L. Lindquist and W. H. Hultgren. No. 1,298,067; Mar. 25; v. 260; p. 586.
- Valve, Igniter-. E. Schroedter. No. 1,295,801; Feb. 25; v. 259; p. 745.
- Valve, Indicating-. C. B. Hayward. No. 1,294,458; Feb. 18; v. 259; p. 413.
- Valve, Indicating-. G. A. Howe. No. 1,297,851; Mar. 18; v. 260; p. 515.
- Valve, Inflating-. F. Nielsen. No. 1,313,553; Aug. 19; v. 265; p. 372.
- Valve, Inflating-. F. Nielsen. No. 1,313,554; Aug. 19; v. 265; p. 372.
- Valve, Internal-combustion-engine. A. Anderson. No. 1,314,457; Aug. 26; v. 265; p. 577.
- Valve, Internal-combustion-engine. A. O. Dady. No. 1,294,419; Feb. 18; v. 259; p. 403.
- Valve, Irrigating-. E. Benner. No. 1,301,030; Apr. 15; v. 261; p. 589.
- Valve-lifter. A. Anderson. No. 1,318,344; Oct. 14; v. 267; p. 191.
- Valve-lifter. E. E. Essen. No. 1,296,784; Mar. 11; v. 260; p. 254.
- Valve-lifter. J. W. Harsley and M. P. Apgar. No. 1,322,433; Nov. 18; v. 268; p. 505.
- Valve-lifter. F. A. Pequignat. No. 1,302,427; Apr. 29; v. 261; p. 926.
- Valve-lifter. H. A. Sills. No. 1,316,925; Sept. 23; v. 266; p. 524.
- Valve-lifter, Folding. I. Rosenberg. No. 1,302,975; May 6; v. 262; p. 94.
- Valve-lifting device. C. H. Roberts. No. 1,316,865; Sept. 23; v. 266; p. 513.
- Valve-lifting tool. I. E. Buchanan. No. 1,307,772; June 24; v. 263; p. 568.
- Valve loading and unloading device. J. E. Holveck. No. 1,316,794; Sept. 23; v. 266; p. 500.
- Valve-lock. M. J. Langton. No. 1,302,933; May 6; v. 262; p. 86.
- Valve-lock, Fuel-fed. C. C. Charles. No. 1,300,120; Apr. 8; v. 261; p. 368.
- Valve, Locking-. F. L. Pearson. No. 1,304,506; May 20; v. 262; p. 446.
- Valve lubrication. J. J. Robson. No. 1,291,157; Jan. 14; v. 258; p. 298.
- Valve, Marine-engine stop and control. R. Copeland. No. 1,298,288; Mar. 25; v. 260; p. 636.
- Valve mechanism. P. Grabler. No. 1,320,465; Nov. 4; v. 268; p. 20.
- Valve mechanism. P. Haas. No. 1,300,261; Apr. 15; v. 261; p. 424.
- Valve mechanism. C. Levinsen. No. 1,296,412; Mar. 4; v. 260; p. 134.
- Valve mechanism. G. H. Lutz. No. 1,292,829; Jan. 28; v. 258; p. 751.
- Valve mechanism. L. A. Mapel. No. 1,291,987; Jan. 21; v. 258; p. 527.
- Valve mechanism. F. Pilley. No. 1,299,507; Apr. 8; v. 261; p. 231.
- Valve mechanism. J. Rau. No. 1,325,331; Dec. 16; v. 269; p. 504.
- Valve mechanism. R. J. C. Tampier. No. 1,306,867; June 17; v. 263; p. 370.
- Valve mechanism. J. Wilkinson. No. 1,325,223; Dec. 16; v. 269; p. 483.
- Valve mechanism, Adjustable. F. W. Henriksen and T. Davison. No. 1,292,464; Jan. 28; v. 258; p. 663.
- Valve mechanism and pressure-gage, Safety-. J. Buchek. No. 1,308,037; July 1; v. 264; p. 6.
- Valve mechanism, Fluid-operated and thermostatically-controlled. J. J. and G. E. Royle. No. 1,326,898; Dec. 30; v. 269; p. 850.
- Valve mechanism for explosive-engines. K. E. Keller. No. 1,292,477; Jan. 28; v. 258; p. 666.
- Valve mechanism for flush-tanks and the like, Automatic inlet-. A. P. Richardson. No. 1,311,713; July 29; v. 264; p. 813.
- Valve mechanism for gas-engines. H. G. Blumberg. No. 1,304,735; May 27; v. 262; p. 527.
- Valve mechanism for gas-engines. F. L. Morse. No. 1,309,906; July 15; v. 264; p. 416.
- Valve mechanism for hydraulic presses. E. Munger. No. 1,292,014; Jan. 21; v. 258; p. 535.
- Valve mechanism for hydraulic presses. E. Munger. No. 1,292,355; Jan. 21; v. 258; p. 617.
- Valve mechanism for internal-combustion engines. J. S. Howard. No. 1,292,783; Jan. 28; v. 258; p. 740.
- Valve mechanism for internal-combustion engines. F. I. Tone. No. 1,291,264; Jan. 14; v. 258; p. 322.
- Valve mechanism for internal-combustion engines, Exhaust-. F. H. Leinweber. No. 1,296,673; Mar. 11; v. 260; p. 228.
- Valve mechanism for milking apparatus. R. B. Dishbrow. No. 1,308,052; July 1; v. 264; p. 8.
- Valve mechanism for ship-turbines, Maneuvering. R. H. Rice. No. 1,317,036; Sept. 23; v. 266; p. 544.
- Valve mechanism for steam-intensifiers. C. L. Taylor. No. 1,302,881; May 6; v. 262; p. 77.
- Valve mechanism for two-cycle gas-engines. W. H. Hunt. No. 1,292,322; Jan. 21; v. 258; p. 609.
- Valve mechanism for vacuum feed devices. W. Jay. No. 1,293,789; Feb. 11; v. 259; p. 220.
- Valve mechanism, Float-. H. T. Heath. No. 1,295,987; Mar. 4; v. 260; p. 38.
- Valve mechanism, Fluid-distributing. D. M. Radovanovitch. No. 1,294,532; Feb. 18; v. 259; p. 429.
- Valve mechanism, Frost-proof. P. Haas. No. 1,303,472; May 13; v. 262; p. 214.
- Valve mechanism, Hydraulic-press. E. Munger. No. 1,292,013; Jan. 21; v. 258; p. 534.
- Valve mechanism, Locomotive-driving-. H. S. Vincent and J. L. Mohun. (Reissue.) No. 14,600; Feb. 25; v. 259; p. 754.
- Valve mechanism, Planter. A. S. Krotz. No. 1,306,153; June 10; v. 263; p. 204.
- Valve mechanism, Snap-movement. C. F. Brand. No. 1,314,243; Aug. 26; v. 265; p. 536.
- Valve mechanism, Snap-movement. C. F. Brand. No. 1,314,244; Aug. 26; v. 265; p. 536.
- Valve mechanism, Starting-. S. L. Kneass. No. 1,300,280; Apr. 15; v. 261; p. 429.
- Valve mechanism, Thermostatic. F. W. Robertshaw. No. 1,292,516; Jan. 28; v. 258; p. 676.
- Valve, Mixing-. W. J. Bergens. No. 1,293,003; Feb. 4; v. 259; p. 8.
- Valve, Mixing-. R. D. Bradford. No. 1,303,762; May 13; v. 262; p. 268.
- Valve, Mixing-. G. B. Emerson and C. E. Buysse. No. 1,323,526; Dec. 2; v. 269; p. 57.
- Valve, Mixing-. B. H. Jansen. No. 1,325,945; Dec. 23; v. 269; p. 634.
- Valve, Mixing-. E. F. Niedecken. No. 1,321,238; Nov. 11; v. 263; p. 230.
- Valve-movement. D. B. Medanich. No. 1,326,208; Dec. 30; v. 269; p. 720.
- Valve, Muffler-. E. P. Gray. No. 1,299,326; Apr. 1; v. 261; p. 161.
- Valve, Multiple mixing-. A. Engel. No. 1,313,590; Aug. 19; v. 265; p. 379.
- Valve, Needle-. E. D. Ferrell. No. 1,298,317; Mar. 25; v. 260; p. 640.
- Valve, Needle-. C. B. Hale. No. 1,305,539; June 3; v. 263; p. 58.
- Valve, Non-clogging. W. G. Wilson. No. 1,314,559; Sept. 2; v. 266; p. 16.
- Valve, Oil-well. C. F. Rigby. No. 1,323,379; Dec. 2; v. 269; p. 30.
- Valve-operating device. M. E. Wilson. No. 1,324,947; Dec. 16; v. 269; p. 432.



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- Valve-operating device. J. Woodcock. No. 1,300,685; Apr. 15; v. 261; p. 514.
- Valve-operating device. Automatic feed-water. E. F. Phelps. No. 1,317,940; Oct. 7; v. 267; p. 53.
- Valve-operating for internal-combustion engines. E. V. Parker. No. 1,317,310; Sept. 30; v. 266; p. 632.
- Valve-operating mechanism. G. A. Reynolds. No. 1,309,339; July 8; v. 264; p. 274.
- Valve-operating mechanism. R. Springborn. No. 1,300,785; Apr. 15; v. 261; p. 536.
- Valve-operating mechanism. M. A. Tips. No. 1,306,036; June 10; v. 263; p. 182.
- Valve-operating mechanism. Engine. C. S. Murdock. No. 1,305,397; June 3; v. 263; p. 32.
- Valve-operating mechanism for combustion-engines. T. B. Murray. No. 1,315,788; Sept. 9; v. 266; p. 248.
- Valve-operating mechanism. Governor-controlled. W. R. Hamilton and F. W. Berney. No. 1,293,765; Feb. 11; v. 259; p. 214.
- Valve or tappet adjusting device. R. W. Manning. No. 1,294,134; Feb. 11; v. 259; p. 302.
- Valve. Pillow. R. H. Henemer. No. 1,300,611; Apr. 15; v. 261; p. 498.
- Valve. Pilot. R. C. Kimball. No. 1,319,006; Oct. 14; v. 267; p. 318.
- Valve. Piston distribution-. C. W. Dake. No. 1,308,001; June 24; v. 263; p. 611.
- Valve. Plate. L. C. Bayles. No. 1,299,815; Apr. 8; v. 261; p. 301.
- Valve. Plate. A. E. Peters. No. 1,302,084; Apr. 29; v. 261; p. 860.
- Valve. Plate. W. Prellwitz. No. 1,316,184; Sept. 16; v. 266; p. 336.
- Valve. Plug. C. F. Schultis. No. 1,324,984; Dec. 16; v. 269; p. 439.
- Valve. Pop. J. T. Dickson. No. 1,305,904; June 3; v. 263; p. 139.
- Valve. Pressure check-. C. Levinsen. No. 1,296,411; Mar. 4; v. 260; p. 134.
- Valve. Pressure-indicating. C. B. Earnheart. No. 1,305,265; June 3; v. 263; p. 7.
- Valve. Pressure-indicating air-. C. B. Earnheart. No. 1,305,263; June 3; v. 263; p. 6.
- Valve. Pressure-retaining. A. B. Myers. No. 1,312,453; Aug. 5; v. 265; p. 113.
- Valve. Radiator. V. V. Riesberg. No. 1,291,148; Jan. 14; v. 258; p. 296.
- Valve-refacing tool. F. O. Albertsen. No. 1,301,891; Apr. 29; v. 261; p. 824.
- Valve. Regulating. A. Beler. No. 1,309,313; July 8; v. 264; p. 269.
- Valve. Regulating. J. G. Pettis. No. 1,314,698; Sept. 2; v. 266; p. 43.
- Valve. Regulating. A. Roesch. No. 1,304,100; May 20; v. 262; p. 367.
- Valve. Relief. F. Goff. No. 1,305,597; June 3; v. 263; p. 71.
- Valve. Relief. F. Goff. No. 1,305,598; June 3; v. 263; p. 71.
- Valve. Relief. E. C. Hitze. No. 1,321,527; Nov. 11; v. 268; p. 284.
- Valve. Relief. R. H. Mueller. No. 1,305,615; June 3; v. 263; p. 74.
- Valve-remover. L. A. Galentine and H. N. Gillette. No. 1,306,887; June 17; v. 263; p. 374.
- Valve-remover. G. W. Ingram. No. 1,323,476; Dec. 2; v. 269; p. 48.
- Valve-remover. C. H. Newton. No. 1,314,355; Aug. 26; v. 265; p. 558.
- Valve-remover. W. O. Page. No. 1,319,415; Oct. 21; v. 267; p. 422.
- Valve reversing gear. J. B. Snyder. No. 1,295,934; Mar. 4; v. 260; p. 26.
- Valve. Rotary. G. M. Bacon. No. 1,309,059; July 8; v. 264; p. 223.
- Valve. Rotary. L. J. Bayer. No. 1,317,346; Sept. 30; v. 266; p. 639.
- Valve. Rotary. R. E. Campbell. No. 1,295,429; Feb. 25; v. 259; p. 659.
- Valve. Rotary. F. J. Dwyer. No. 1,320,847; Nov. 4; v. 268; p. 92.
- Valve. Rotary. W. A. Gill. No. 1,292,597; Jan. 28; v. 258; p. 697.
- Valve. Rotary. J. G. Goodhue. No. 1,326,046; Dec. 23; v. 269; p. 653.
- Valve. Rotary dust-. M. C. Peters. No. 1,306,276; June 10; v. 263; p. 250.
- Valve. Rotary engine-. J. E. Davenport. No. 1,305,695; June 3; v. 263; p. 88.
- Valve. Rotary internal-combustion-engine. E. M. Bournonville. No. 1,293,681; Feb. 11; v. 259; p. 195.
- Valve. Safety. D. Cockburn and D. MacNicoll. No. 1,322,179; Nov. 18; v. 268; p. 457.
- Valve. Safety. D. Cockburn and D. MacNicoll. No. 1,325,508; Dec. 23; v. 269; p. 553.
- Valve. Safety. J. S. Maxwell. No. 1,293,156; Feb. 4; v. 259; p. 42.
- Valve. Safety. N. J. Molinari. No. 1,322,197; Nov. 18; v. 268; p. 460.
- Valve. Safety. A. Sechrist. No. 1,305,747; June 3; v. 263; p. 98.
- Valve. Safety. M. Smolensky. No. 1,322,638; Nov. 25; v. 268; p. 596.
- Valve. Safety gas-. S. B. Britton. No. 1,303,156; May 6; v. 262; p. 130.
- Valve. Safety gas-. H. C. and S. W. Liggett and G. M. Hood. No. 1,294,359; Feb. 11; v. 259; p. 353.
- Valve. Sanitary overflow-. C. N. Skalla. No. 1,307,460; June 24; v. 263; p. 512.
- Valve-sealing means. J. Hohman. No. 1,292,603; Jan. 28; v. 258; p. 698.
- Valve seating. Hydraulic. H. Crowe. No. 1,303,035; May 6; v. 262; p. 106.
- Valve-seats. Casting chilled. B. Boykin, Jr. No. 1,296,751; Mar. 11; v. 260; p. 247.
- Valve-seats. Facing-tool for. F. A. and B. P. Dexter. No. 1,325,278; Dec. 16; v. 269; p. 494.
- Valve-seats. Machine for facing. T. F. Singleton. No. 1,321,855; Nov. 18; v. 268; p. 397.
- Valve. Self-closing. W. S. Livengood. No. 1,316,906; Sept. 23; v. 266; p. 520.
- Valve. Self-closing. A. W. Wheaton. No. 1,322,076; Nov. 18; v. 268; p. 437.
- Valve. Self-grinding. J. Garlick. No. 1,297,342; Mar. 18; v. 260; p. 407.
- Valve. Siphon flush-. P. F. McCaffrey. No. 1,302,820; May 6; v. 262; p. 64.
- Valve-spring compressor. R. A. Durland. (Reissue.) No. 1,464,040; Apr. 29; v. 261; p. 938.
- Valve-spring compressor. A. B. Minter. No. 1,315,383; Sept. 9; v. 266; p. 176.
- Valve-spring lifter. L. J. Davies. No. 1,311,805; July 29; v. 264; p. 830.
- Valve-spring lifter. A. Frodell. No. 1,325,985; Dec. 23; v. 269; p. 642.
- Valve-spring lifter. M. W. Melrose. No. 1,299,496; Apr. 8; v. 261; p. 228.
- Valve-spring lifter. C. W. Palmer. No. 1,301,733; Apr. 22; v. 261; p. 763.
- Valve-spring tool. Auto-engine-. K. Ibusuki. No. 1,324,052; Dec. 9; v. 269; p. 200.
- Valve. Steam-admission. E. E. Gold. No. 1,291,834; Jan. 21; v. 258; p. 488.
- Valve. Steam-cylinder drain-. J. McGuire and J. M. Bong. No. 1,319,404; Oct. 21; v. 267; p. 419.
- Valve. Steam-engine. C. V. Grimm. No. 1,303,055; May 6; v. 262; p. 109.
- Valve. Steam-regulating. C. Levinsen. No. 1,296,410; Mar. 4; v. 260; p. 134.
- Valve. Steam-regulating. C. Levinsen. No. 1,297,193; Mar. 11; v. 260; p. 345.
- Valve-stem. P. G. Sullivan. No. 1,325,544; Dec. 23; v. 269; p. 560.
- Valve-stem-lubricating shield. J. W. Dawson. No. 1,293,607; Feb. 4; v. 259; p. 147.
- Valve. Stop. R. S. O'Neill. No. 1,302,990; May 6; v. 262; p. 97.
- Valve. Straightway double-acting. W. A. Sault. No. 1,314,609; Sept. 2; v. 266; p. 25.
- Valve. Strainer-. F. H. Bogda. No. 1,314,566; Sept. 2; v. 266; p. 18.
- Valve structure. A. O. Dady. No. 1,294,418; Feb. 18; v. 259; p. 403.
- Valve structure. S. H. Lewis. No. 1,291,566; Jan. 14; v. 258; p. 393.
- Valve structure. W. Salt. No. 1,294,953; Feb. 18; v. 259; p. 527.
- Valve structure. W. C. Stevenson. No. 1,305,976; June 3; v. 263; p. 142.
- Valve structure. Acid-. H. B. Haviland. No. 1,325,846; Dec. 23; v. 269; p. 616.
- Valve structure. Air-. C. B. Earnheart. No. 1,305,266; June 3; v. 263; p. 7.
- Valve. Taper-plug. C. W. Larnier. No. 1,314,341; Aug. 26; v. 265; p. 555.
- Valve-tappet. E. C. Senkpiel. No. 1,318,609; Oct. 14; v. 267; p. 242.
- Valve test-rack. Triple-. W. V. Turner. No. 1,297,508; Mar. 18; v. 260; p. 441.
- Valve-testing gage. Safety-. E. B. Crocker. No. 1,290,520; Jan. 7; v. 258; p. 122.
- Valve-testing machine. W. H. McKenzie. No. 1,298,236; Mar. 25; v. 260; p. 622.
- Valve. Thermostatic. P. J. Hiebert. No. 1,323,593; Dec. 2; v. 269; p. 69.
- Valve. Thermostatic. W. Housholder. No. 1,292,469; Jan. 28; v. 258; p. 664.
- Valve. Thermostatic. S. Lippert. No. 1,302,938; May 6; v. 262; p. 87.
- Valve. Thermostatic. W. W. Morgan. No. 1,308,856; July 8; v. 264; p. 183.
- Valve. Thermostatic. G. F. Schwartz. No. 1,324,070; Dec. 9; v. 269; p. 203.
- Valve. Thermostatically-controlled radiator-. L. K. Ascher. No. 1,309,008; July 8; v. 264; p. 212.
- Valve. Throttle-. R. H. Clifton. No. 1,308,842; July 8; v. 264; p. 181.
- Valve. Throttle-. D. R. Murphy. No. 1,315,387; Sept. 9; v. 266; p. 177.
- Valve. Throttle-. O. W. Young. No. 1,304,724; May 27; v. 262; p. 525.
- Valve-tool. F. C. Friebe. No. 1,296,279; Mar. 4; v. 260; p. 105.
- Valve-tool. S. D. Hearing. No. 1,295,159; Feb. 25; v. 259; p. 597.

- Valve, Triple. F. Y. Dibble. No. 1,303,263; May 13; v. 262; p. 177.
- Valve, Triple. J. R. Snyder. No. 1,302,984; May 6; v. 262; p. 96.
- Valve, Triple. J. R. Snyder. No. 1,302,985; May 6; v. 262; p. 96.
- Valve, Turbine bleeder-. B. G. Fernald and J. L. Moore. No. 1,303,407; July 1; v. 264; p. 73.
- Valve, Two-fluid-control. F. Henneböhle. No. 1,294,461; Feb. 13; v. 259; p. 414.
- Valve, Water-. L. Baun. No. 1,305,868; June 3; v. 263; p. 121.
- Valve, Water-change. F. E. Worden. No. 1,305,583; June 3; v. 263; p. 68.
- Valve, Water-cooled. A. F. Schumann. No. 1,313,122; Aug. 12; v. 265; p. 274.
- Valve, Well-bucket. E. H. Taylor. No. 1,304,218; May 20; v. 262; p. 389.
- Valve, Wind-musical-instrument. E. J. Gulick. No. 1,300,382; Apr. 15; v. 261; p. 451.
- Valves and other devices, Controller for motor-driven. P. P. Dean. No. 1,295,445; Feb. 25; v. 259; p. 663.
- Valves and the like, Spring for exhaust-. G. T. Huber. No. 1,302,556; May 6; v. 262; p. 16.
- Valves, Automatic controller for air-brake emergency-. G. F. Van Meter. No. 1,303,743; May 13; v. 262; p. 264.
- Valves, Automatic mixing and antiscalding. H. L. Young and M. S. Finch. No. 1,308,829; July 8; v. 264; p. 178.
- Valves, Automatic stop for. J. L. Kimball. No. 1,322,906; Nov. 25; v. 268; p. 645.
- Valves, Cap for inflating. E. E. Poston. No. 1,318,917; Oct. 14; v. 267; p. 301.
- Valves, Casing for cylindrical distributing-. H. O. Wilkinson. No. 1,304,520; May 20; v. 262; p. 449.
- Valves, Controlling device for engine distributing-. J. C. Hansen-Ellehammer. No. 1,318,664; Oct. 14; v. 267; p. 253.
- Valves for internal-combustion engines, Operation of fuel spraying or injection. H. E. Fenchelle. No. 1,294,077; Feb. 11; v. 259; p. 288.
- Valves from explosive-engines, Tool for removing. C. R. Glascock. No. 1,326,858; Dec. 30; v. 269; p. 843.
- Valves, Guide for dry-type gas-meter. E. S. Dickey. No. 1,206,220; June 10; v. 263; p. 217.
- Valves in certain determined intervals of time, Means for opening and closing. G. Dalén. No. 1,304,159; May 20; v. 262; p. 378.
- Valves in certain intervals of time, Device for suddenly opening and closing. G. Dalén. No. 1,320,451; Nov. 4; v. 268; p. 18.
- Valves, Leak-detector for pneumatic-tire. C. W. Lokey. No. 1,313,493; Aug. 19; v. 265; p. 360.
- Valves, Lock for. W. J. Biggs. No. 1,316,412; Sept. 16; v. 266; p. 379.
- Valves, Making wind-musical-instrument. E. J. Gulick. No. 1,295,305; Feb. 25; v. 259; p. 630.
- Valves, Mechanism for operating flush-. A. R. Gilmore. No. 1,302,912; May 6; v. 262; p. 83.
- Valves of air-brake systems, Holding means for drain-. P. M. Searson. No. 1,315,165; Sept. 2; v. 266; p. 126.
- Valves of combustion power-engines, Valve-gear for. H. Junkers. No. 1,320,063; Oct. 28; v. 267; p. 567.
- Valves of engines and the like, Apparatus for operating. E. Schneider. No. 1,290,790; Jan. 7; v. 258; p. 187.
- Valves of pneumatic tires, Dust-cap for. W. P. Hammond. No. 1,302,792; May 6; v. 262; p. 58.
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- Vehicle lighting and signaling apparatus. W. G. Milligan. No. 1,290,633; Jan. 7; v. 258; p. 150.
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- Vehicle-lock. W. J. Neidhart and H. High. No. 1,319,609; Oct. 21; v. 267; p. 459.
- Vehicle lock, Motor-. T. A. Perdue. No. 1,314,426; Aug. 26; v. 265; p. 572.
- Vehicle lock, Motor-. E. B. Stafford. No. 1,314,713; Sept. 2; v. 266; p. 45.
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- Vehicle-locking device, Motor-. R. L. Smith. No. 1,292,114; Jan. 21; v. 258; p. 559.
- Vehicle-locking means, Motor-. W. E. Borton. No. 1,305,519; June 3; v. 263; p. 54.
- Vehicle, Manually-propelled. W. D. Smith. No. 1,326,697; Dec. 30; v. 269; p. 812.
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- Vehicle, Motor-. W. C. Brinton. No. 1,313,937; Aug. 26; v. 265; p. 477.
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- Vehicle wheel, Road-. W. Dukes. No. 1,315,291; Sept. 9; v. 266; p. 160.
- Vehicle wheel, Road-. A. C. Wright and W. Dukes. No. 1,303,139; May 6; v. 262; p. 126.
- Vehicle-wheels, Demountable metal tire for. J. M. Sillman. No. 1,306,286; June 10; v. 263; p. 231.
- Vehicle-wheels, Rim for. R. S. Bryant. No. 1,310,603; July 22; v. 264; p. 574.
- Vehicles, Accessory-drive for motor-. C. R. Short. No. 1,291,199; Jan. 14; v. 258; p. 308.
- Vehicles, Adjustable spot-light for motor-. A. S. Loomis. No. 1,317,170; Sept. 30; v. 266; p. 606.
- Vehicles, Anchor device for advancing mud-ditched. J. D. Poole. No. 1,316,323; Sept. 16; v. 266; p. 363.
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- Vehicles and the like, Lock for motor-. C. J. Heinrichs. No. 1,313,891; Aug. 26; v. 265; p. 468.
- Vehicles and the like, Radiator for motor-. P. F. Sperry. No. 1,316,199; Sept. 16; v. 266; p. 339.
- Vehicles and vessels, Means for indicating the direction of travel of. H. T. Dobbs and E. T. John. No. 1,290,119; Jan. 7; v. 258; p. 26.
- Vehicles, Antirattler attachment for. F. E. Griffith. No. 1,317,017; Sept. 23; v. 266; p. 541.
- Vehicles, Antiskid device for. W. H. Krug. No. 1,310,536; July 22; v. 264; p. 562.
- Vehicles, Apparatus for storing and transporting. J. M. Daly. No. 1,324,105; Dec. 9; v. 269; p. 210.
- Vehicles, Attachment for motor-. U. S. Daniel. No. 1,312,956; Aug. 12; v. 265; p. 241.
- Vehicles, Attachment for motor-driven. J. E. Stauffer. No. 1,308,874; July 8; v. 264; p. 187.
- Vehicles, Auxiliary leaf-spring for motor-. H. D. F. Hillard. No. 1,297,167; Mar. 11; v. 260; p. 340.



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- Vehicles, Auxiliary shield for motor-. F. E. Dennis. No. 1,322,412; Nov. 18; v. 268; p. 502.
- Vehicles, Auxiliary spring attachment for motor-. A. A. Sebastian. No. 1,300,783; Apr. 15; v. 261; p. 535.
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- Vehicles, Belt attachment for motor-. F. R. Weisgerber. No. 1,297,948; Mar. 18; v. 260; p. 536.
- Vehicles, Brace for steps of motor-driven. P. A. Fuchs. No. 1,322,006; Nov. 18; v. 268; p. 425.
- Vehicles, Brake and wheel-guard for. W. H. Puttergill. No. 1,326,093; Dec. 23; v. 269; p. 662.
- Vehicles, Broad-gage attachment for. C. W. Lasserre. No. 1,313,394; Aug. 19; v. 265; p. 341.
- Vehicles, Burglar-alarm for motor-. G. B. Poindexter. No. 1,318,299; Oct. 7; v. 267; p. 122.
- Vehicles by fluid-pressure, System of operating. R. Maw and W. B. McLean. No. 1,320,485; Nov. 4; v. 268; p. 24.
- Vehicles, Change-speed-gear-operating means for motor-. W. H. Adsit. No. 1,292,413; Jan. 28; v. 258; p. 651.
- Vehicles, Change-speed mechanism for tractor-truck motor-. W. J. Miller. No. 1,320,263; Oct. 28; v. 267; p. 604.
- Vehicles, Chassis construction for motor-. C. M. Foster. No. 1,290,958; Jan. 14; v. 258; p. 253.
- Vehicles, Chassis construction on motor-. H. E. Buck. No. 1,323,739; Dec. 2; v. 269; p. 96.
- Vehicles, Clutch-lock for motor-. F. C. Mason. No. 1,295,343; Feb. 25; v. 259; p. 639.
- Vehicles, Collapsible or folding hood for. A. Kürth. No. 1,305,554; June 3; v. 263; p. 62.
- Vehicles, Combined battery and tool box for. E. A. Hawthorne. No. 1,306,146; June 10; v. 263; p. 202.
- Vehicles, Combined brake and jack for. G. A. Rogers. No. 1,311,998; Aug. 5; v. 265; p. 27.
- Vehicles, Combined bumper and lifting-jack for motor-. G. Sjölander. No. 1,326,795; Dec. 30; v. 269; p. 831.
- Vehicles, Combined driving and steering device for motor-. G. E. Cassel. No. 1,296,163; Mar. 4; v. 260; p. 80.
- Vehicles, Compensating driving mechanism for motor-. J. D. Allen. No. 1,323,384; Dec. 2; v. 269; p. 30.
- Vehicles, Control of transmission mechanism for heavy mechanically-propelled. W. G. Wilson. No. 1,324,757; Dec. 9; v. 269; p. 335.
- Vehicles, Control mechanism for motor-. J. G. Vincent. No. 1,321,164; Nov. 11; v. 268; p. 215.
- Vehicles, Controlling device of motor-. J. G. Heaslet. No. 1,318,146; Oct. 7; v. 267; p. 92.
- Vehicles, Controlling means for engine-generator-driven. H. Lemp. No. 1,313,097; Aug. 12; v. 265; p. 269.
- Vehicles, Cooling system for motor-. W. W. Stauffer. No. 1,314,470; July 29; v. 264; p. 768.
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- Vehicles, Demountable rim for motor-. A. J. Anderson. No. 1,315,199; Sept. 9; v. 266; p. 143.
- Vehicles, Demountable rim for wheels of. C. W. Pride. No. 1,300,223; Apr. 8; v. 261; p. 391.
- Vehicles, Device for heating radiators of motor-. P. S. Martin. No. 1,322,036; Nov. 18; v. 268; p. 430.
- Vehicles, Device for recooling the cooling-water of steam-condensing plants on. C. Kohler. No. 1,322,908; Nov. 25; v. 268; p. 646.
- Vehicles, Differential steering-gear for motor-. F. and E. Carter and R. E. Watts. No. 1,300,118; Apr. 8; v. 261; p. 368.
- Vehicles, Direction-indication for motor-. R. N. McClure. No. 1,320,566; Nov. 4; v. 268; p. 39.
- Vehicles, Direction-indicator for motor-. L. M. Bowman. No. 1,302,296; Apr. 29; v. 261; p. 900.
- Vehicles, Direction-indicator for motor-. E. J. Grigsby. No. 1,323,049; Nov. 25; v. 268; p. 672.
- Vehicles, Direction-indicator for motor-. A. W. Ingalls. No. 1,323,866; Dec. 2; v. 269; p. 121.
- Vehicles, Direction-indicator for motor-. D. S. Lee. No. 1,299,966; Apr. 8; v. 261; p. 334.
- Vehicles, Direction-indicator for motor-. H. L. Risedorf. No. 1,295,603; Feb. 25; v. 259; p. 700.
- Vehicles, Direction-indicator for motor-. R. W. Taylor. No. 1,317,240; Sept. 30; v. 266; p. 619.
- Vehicles, Direction indicator for motor-driven. J. V. Hoque. No. 1,322,239; Nov. 18; v. 268; p. 468.
- Vehicles, Direction-indicator for road-. J. M. Mellis and C. A. Splayford. No. 1,321,933; Nov. 18; v. 268; p. 411.
- Vehicles, Direction signal for. C. Fredriksen. No. 1,304,172; May 20; v. 262; p. 380.
- Vehicles, Direction-signalling mechanism for motor-. P. W. Vanderhoff. No. 1,303,422; May 13; v. 262; p. 205.
- Vehicles, Dirigible lighting apparatus for. J. M. Calkins. No. 1,315,463; Sept. 9; v. 266; p. 191.
- Vehicles, Door-open signal for. R. S. Malburg. No. 1,299,979; Apr. 8; v. 261; p. 337.
- Vehicles, Draining attachment for the dashboards of motor-. P. Spies. No. 1,297,030; Mar. 11; v. 260; p. 310.
- Vehicles, Driving-gear for motor-. A. F. Baker. No. 1,309,978; July 15; v. 264; p. 430.
- Vehicles, Driving mechanism for. P. J. Garrison. No. 1,318,372; Oct. 14; v. 267; p. 197.
- Vehicles, Driving mechanism for heavy mechanically-propelled. W. G. Wilson. No. 1,306,652; June 10; v. 263; p. 298.
- Vehicles, Driving mechanism for motor-. P. J. Garrison. No. 1,318,373; Oct. 14; v. 267; p. 197.
- Vehicles, Driving mechanism for motor-. J. R. Johnson. No. 1,294,470; Feb. 18; v. 259; p. 416.
- Vehicles, Driving mechanism for motor-. E. J. Kane. No. 1,306,065; June 10; v. 263; p. 187.
- Vehicles, Driving mechanism for motor-. E. J. Kane. No. 1,306,227; June 10; v. 263; p. 218.
- Vehicles, Driving mechanism for motor-. W. Rautenstrauch. No. 1,295,793; Feb. 25; v. 259; p. 743.
- Vehicles, Driving-wheel for motor-. M. Walter. No. 1,309,266; July 8; v. 264; p. 260.
- Vehicles, Elastic suspension for. L. Laisne. No. 1,316,369; Sept. 16; v. 266; p. 371.
- Vehicles, Electric controller for use in connection with electrically-propelled. J. E. Hamilton. No. 1,322,562; Nov. 25; v. 268; p. 581.
- Vehicles, Engine control for power-. J. Huck. No. 1,325,018; Dec. 16; v. 269; p. 444.
- Vehicles, Extension-body for. W. S. Lakin. No. 1,309,251; July 8; v. 264; p. 257.
- Vehicles, Fender for self-propelled. W. H. H. Stineman. No. 1,292,130; Jan. 21; v. 258; p. 564.
- Vehicles, Fifth-wheel for. J. W. Menhall and C. G. Clement. No. 1,325,697; Dec. 23; v. 269; p. 589.
- Vehicles, &c., Folding top for. M. Buch. No. 1,316,938; Sept. 23; v. 266; p. 526.
- Vehicles, Four-wheel drive for motor-. G. W. Wilkin and J. P. Kee. No. 1,304,640; May 27; v. 262; p. 509.
- Vehicles, Front-axle drive for dirigible. W. Goljan. No. 1,311,343; July 29; v. 264; p. 744.
- Vehicles, Front-wheel drive mechanism for motor-. F. L. Freeman. No. 1,303,285; May 13; v. 262; p. 181.
- Vehicles, Gas control for motor-. A. F. Beauregard. No. 1,311,800; July 29; v. 264; p. 829.
- Vehicles, Gear-shifting means for motor-driven. L. E. Fowler. No. 1,304,955; May 27; v. 262; p. 567.
- Vehicles, Hay-rack for. E. W. A. Scheunemann. No. 1,316,195; Sept. 16; v. 266; p. 338.
- Vehicles, Heater for motor-driven. C. S. Pelton. No. 1,302,208; Apr. 29; v. 261; p. 883.
- Vehicles, Heater for motor-propelled. C. S. Pelton. No. 1,309,216; July 8; v. 264; p. 251.
- Vehicles, Heater for motor-propelled. C. S. Pelton. No. 1,314,697; Sept. 2; v. 266; p. 43.
- Vehicles, Heater for motor-propelled. C. S. Pelton. (Re-issue.) No. 14,749; Nov. 11; v. 268; p. 336.
- Vehicles, Heating device for motor-. F. A. Reich. No. 1,300,017; Apr. 8; v. 261; p. 344.
- Vehicles, Ignition device for motor-. J. A. Heany. No. 1,301,053; Apr. 15; v. 261; p. 594.
- Vehicles, Ignition device for motor-. J. A. Heany. No. 1,305,601; June 3; v. 263; p. 72.
- Vehicles, Ignition-lock for motor-. A. Landgren and M. B. Ewers. No. 1,325,521; Dec. 23; v. 269; p. 556.
- Vehicles, Lock for motor-. B. E. Richardson. No. 1,321,147; Nov. 11; v. 268; p. 212.
- Vehicles, Locking device for motor-. J. N. Vesely. No. 1,291,291; Jan. 14; v. 258; p. 329.
- Vehicles, Means for controlling the electric lighting of motor-. W. Curtis. No. 1,313,583; Aug. 19; v. 265; p. 377.
- Vehicles, Means for preventing the theft of motor-. E. F. Heins. No. 1,309,197; July 8; v. 264; p. 247.
- Vehicles, Mechanical hoist for motor-. A. T. Scannell. No. 1,307,154; June 17; v. 263; p. 422.
- Vehicles, Mechanism for propelling. A. Boyd. No. 1,322,004; Nov. 25; v. 268; p. 664.
- Vehicles, Mileage and time indicator for. R. Picard. No. 1,312,747; Aug. 12; v. 265; p. 199.
- Vehicles, Motor for. F. A. Snyder. No. 1,301,614; Apr. 22; v. 261; p. 738.
- Vehicles, Mud-guard for motor-. F. Lorimer. No. 1,303,567; May 13; v. 262; p. 231.
- Vehicles, Mud-protector for. G. Odierno. No. 1,325,166; Dec. 16; v. 269; p. 473.
- Vehicles or the like, Wheel for road-. W. Brown. No. 1,315,280; Sept. 9; v. 266; p. 158.
- Vehicles, Pedal control for motor-. T. C. Purcell. No. 1,314,210; Aug. 26; v. 265; p. 529.
- Vehicles, Pedal-control mechanism for motor-. J. A. Fiddle. No. 1,321,615; Nov. 11; v. 268; p. 301.
- Vehicles, Pivoted support for motor-. G. J. Thomas. No. 1,321,491; Nov. 11; v. 268; p. 278.
- Vehicles, Pneumatic control apparatus for motor-. F. X. Ewald. No. 1,315,104; Sept. 2; v. 266; p. 115.
- Vehicles, Pneumatic sustaining means for. W. H. Bates. No. 1,301,804; Apr. 29; v. 261; p. 807.
- Vehicles, Power-application mechanism for motor-. C. W. Duer. No. 1,300,359; Apr. 15; v. 261; p. 445.
- Vehicles, Power attachment for motor-. C. M. Stevenson. No. 1,306,448; June 10; v. 263; p. 261.
- Vehicles, Power-transmission device for motor-. R. F. Crawford. No. 1,301,657; Apr. 22; v. 261; p. 747.
- Vehicles, Propelling mechanism for. J. A. Brantley. No. 1,312,828; Aug. 12; v. 265; p. 216.
- Vehicles, Propulsion of aerial or water. J. Macinante. No. 1,326,760; Dec. 30; v. 269; p. 824.
- Vehicles, Pulling attachment for motor-driven. L. Ball. No. 1,308,615; July 1; v. 264; p. 111.
- Vehicles, Radiator for motor-driven. P. F. Sperry. No. 1,325,215; Dec. 16; v. 269; p. 482.
- Vehicles, Radius-rod for. B. F. Wardell. No. 1,318,191; Oct. 7; v. 267; p. 101.

- Vehicles, Rear-axle drive for motor-. M. C. Frins. No. 1,326,655; Dec. 30; v. 269; p. 804.
- Vehicles, Removable cushion for. J. Ledwinka. No. 1,321,458; Nov. 11; v. 268; p. 272.
- Vehicles, Resilient driving connection for motor-driven. J. V. Robinson. No. 1,324,926; Dec. 16; v. 269; p. 428.
- Vehicles, Resilient wheel for. G. Lezcano. No. 1,308,761; July 8; v. 264; p. 166.
- Vehicles, Runner attachment for wheeled. C. Grebenstein. No. 1,326,724; Dec. 30; v. 269; p. 817.
- Vehicles, Runner for. K. A. Blystad. No. 1,315,360; Sept. 9; v. 266; p. 172.
- Vehicles, Safety device for horse-drawn. W. R. Keathley. No. 1,323,224; Nov. 25; v. 268; p. 707.
- Vehicles, Safety-guard for the front wheels of motor road-. W. H. Puttergill. No. 1,326,094; Dec. 23; v. 269; p. 662.
- Vehicles, Safety-indicator for self-propelled. G. S. Witham, Jr. No. 1,296,148; Mar. 4; v. 260; p. 77.
- Vehicles, Seat for motor-. I. Jacobs and W. Cramer. No. 1,315,842; Sept. 9; v. 266; p. 258.
- Vehicles, Shock-absorber for. P. P. Carbt. No. 1,319,848; Oct. 28; v. 267; p. 527.
- Vehicles, Shock-absorber for. J. F. O'Connor. No. 1,303,950; May 20; v. 262; p. 340.
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- Velocipede, Convertible. J. E. Tyler. No. 1,309,493; July 8; v. 264; p. 302.
- Velocipedes, Adjustable handle-bar for. R. G. Ledig. No. 1,320,070; Oct. 28; v. 267; p. 568.
- Vending and recording device. A. B. Purington. No. 1,322,613; Nov. 25; v. 268; p. 591.
- Vending apparatus. A. E. Manthey and O. C. Thiel. No. 1,318,217; Oct. 7; v. 267; p. 107.
- Vending apparatus. R. A. Tribble. No. 1,305,033; May 27; v. 262; p. 582.
- Vending device. J. Buchek. No. 1,309,998; July 15; v. 264; p. 433.
- Vending device. J. A. Doerfer. No. 1,315,014; Sept. 2; v. 266; p. 99.
- Vending-machine. G. R. Anderson. No. 1,313,046; Aug. 12; v. 265; p. 259.
- Vending-machine. E. A. Bolen. No. 1,310,601; July 22; v. 264; p. 574.
- Vending-machine. J. W. P. Burdine. No. 1,314,852; Sept. 2; v. 266; p. 70.
- Vending-machine. S. M. Coffman. No. 1,309,184; July 8; v. 264; p. 245.
- Vending-machine. S. M. Coffman. No. 1,309,185; July 8; v. 264; p. 245.
- Vending-machine. H. J. Davis. No. 1,295,971; Mar. 4; v. 260; p. 35.
- Vending-machine. F. J. Gerrard. No. 1,305,795; June 3; v. 263; p. 106.



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- Vending-machine. A. D. Grover and E. E. Barber. No. 1,300,259; Apr. 15; v. 261; p. 424.
- Vending-machine. F. M. Hume. No. 1,319,084; Oct. 21; v. 267; p. 358.
- Vending-machine. O. Jaeger. No. 1,322,307; Nov. 18; v. 268; p. 481.
- Vending-machine. O. Jaeger. No. 1,322,449; Nov. 18; v. 268; p. 508.
- Vending-machine. W. N. Mason. No. 1,316,492; Sept. 16; v. 266; p. 395.
- Vending-machine. W. N. Mason. No. 1,321,382; Nov. 11; v. 268; p. 258.
- Vending-machine. G. McDowell. No. 1,310,888; July 22; v. 264; p. 645.
- Vending-machine. A. C. Pann. No. 1,308,960; July 8; v. 264; p. 203.
- Vending-machine. G. A. Ritz. No. 1,293,200; Feb. 4; v. 259; p. 52.
- Vending-machine. W. F. Smith. No. 1,294,964; Feb. 18; v. 259; p. 529.
- Vending-machine. F. Smith. No. 1,324,415; Dec. 9; v. 260; p. 270.
- Vending-machine. E. F. Spaulding. No. 1,320,504; Nov. 4; v. 268; p. 27.
- Vending-machine. E. F. Spaulding. No. 1,320,505; Nov. 4; v. 268; p. 28.
- Vending-machine. W. F. Taylor. No. 1,306,201; June 10; v. 263; p. 213.
- Vending-machine. W. G. Templeton. No. 1,293,979; Feb. 11; v. 259; p. 264.
- Vending-machine. W. G. Templeton. No. 1,294,194; Feb. 11; v. 259; p. 315.
- Vending-machine. W. G. Templeton. No. 1,294,195; Feb. 11; v. 259; p. 316.
- Vending-machine. W. G. Templeton. No. 1,317,763; Oct. 7; v. 267; p. 20.
- Vending-machine. J. A. Webster. No. 1,313,032; Aug. 12; v. 265; p. 256.
- Vending-machine and game apparatus. Combined. G. F. W. Schultze. No. 1,298,800; Apr. 1; v. 261; p. 43.
- Vending-machine. Automatic fluid. F. L. Buell. No. 1,319,691; Oct. 28; v. 267; p. 497.
- Vending-machine casing. J. Brandt. No. 1,291,749; Jan. 21; v. 258; p. 467.
- Vending-machine. Check-controlled. A. Rydquist. No. 1,310,504; July 22; v. 264; p. 556.
- Vending-machine. Coin-controlled. A. D. Grover. No. 1,310,863; July 22; v. 264; p. 622.
- Vending-machine. Coin-Controlled. W. Millard. No. 1,321,385; Nov. 11; v. 268; p. 258.
- Vending-machine coin-controlled mechanism. G. W. Gumber. No. 1,293,084; Feb. 4; v. 259; p. 26.
- Vending-machine coin-controlled mechanism. W. A. Lorenz. No. 1,293,822; Feb. 11; v. 259; p. 228.
- Vending-machine. Coin-controlled newspaper. J. H. Roberts. No. 1,314,217; Aug. 26; v. 265; p. 531.
- Vending-machine. Coin-operated. W. J. Jandron. No. 1,299,835; Apr. 8; v. 261; p. 306.
- Vending-machine ejecting mechanism. W. A. Lorenz. No. 1,292,619; Jan. 28; v. 258; p. 702.
- Vending-machine. Gasolene. W. W. Kilpatrick and E. T. Booth. No. 1,308,713; July 1; v. 264; p. 129.
- Vending-machine. Gum. M. Stoltz and C. D. Lukens. No. 1,315,879; Sept. 9; v. 266; p. 266.
- Vending-machine. Label. H. A. Adams. No. 1,310,592; July 22; v. 264; p. 572.
- Vending-machine. Liquid. K. M. Ray and D. Hendrickson. No. 1,314,901; Sept. 2; v. 266; p. 79.
- Vending-machine. Package. C. A. Melchert and H. A. Kohls. No. 1,301,074; Apr. 15; v. 261; p. 599.
- Vending-machine. Pencil. E. W. Singletary. No. 1,315,687; Sept. 9; v. 266; p. 230.
- Vending-machines. Attachment for liquid. G. A. Brown. No. 1,303,158; May 6; v. 262; p. 130.
- Vending-machines. Automatic slot-closer for coin-controlled. A. D. Grover. No. 1,316,887; Sept. 23; v. 266; p. 516.
- Vending-machines. Coin-controlled mechanism for. M. Graves. No. 1,310,989; July 22; v. 264; p. 6.
- Vending-machines. Coin-receiving box for. W. I. Ravert. No. 1,297,732; Mar. 18; v. 260; p. 489.
- Vending-machines. Slot-closing mechanism for coin-controlled. A. D. Grover. No. 1,310,826; July 22; v. 264; p. 616.
- Vending-mechanism. G. W. Gumber. No. 1,297,677; Mar. 18; v. 260; p. 477.
- Veneer berry-box. Collapsible. O. C. Fenlason. No. 1,298,921; Apr. 1; v. 261; p. 70.
- Veneer-cutting machines. Automatic clutch for. H. C. Trevillon. No. 1,298,604; Mar. 25; v. 260; p. 701.
- Veneer-press. J. A. McDonald and W. R. Forsyth. No. 1,315,976; Sept. 16; v. 266; p. 298.
- Veneer. Wood. J. R. McClain. No. 1,299,747; Apr. 8; v. 261; p. 286.
- Vent-box. W. W. Bythiner and F. Montague. No. 1,305,767; June 3; v. 263; p. 102.
- Vent-pipe. W. Haas. No. 1,322,013; Nov. 18; v. 268; p. 426.
- Ventilating and cooling. L. L. Summers. No. 1,310,511; July 22; v. 264; p. 557.
- Ventilating and flushing apparatus. C. E. Shadall. No. 1,303,974; May 20; v. 262; p. 345.
- Ventilating and humidifying apparatus. J. D. McLachlan. No. 1,314,824; Sept. 2; v. 266; p. 65.
- Ventilating apparatus. M. L. Brown. No. 1,319,267; Oct. 21; v. 267; p. 393.
- Ventilating apparatus. A. R. Klein. No. 1,303,210; May 6; v. 262; p. 139.
- Ventilating apparatus. D. F. Lopley. No. 1,326,673; Dec. 30; v. 269; p. 808.
- Ventilating apparatus. R. C. Root. No. 1,301,975; Apr. 29; v. 261; p. 840.
- Ventilating device. P. R. Clark. No. 1,326,576; Dec. 30; v. 269; p. 790.
- Ventilating ridge-roll for buildings. J. H. Wickstrom. No. 1,307,228; June 17; v. 263; p. 436.
- Ventilating structure. F. M. Cobb. No. 1,317,960; Oct. 7; v. 267; p. 57.
- Ventilating system. F. C. Stowell. No. 1,303,410; May 13; v. 262; p. 203.
- Ventilating system. Crib and bin. J. D. Overholt. No. 1,317,309; Sept. 30; v. 266; p. 632.
- Ventilator. *See*—
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  - Hood-lift motor-ventilator. Window screen and ventilator.
  - Oven-ventilator. Window-ventilator.
  - Rotary ventilator. Window-ventilator.
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- Ventilator. B. R. Andrews. No. 1,306,845; June 17; v. 263; p. 366.
- Ventilator. G. E. Banning. No. 1,318,042; Oct. 7; v. 267; p. 73.
- Ventilator. W. A. Bartholomew. No. 1,299,286; Apr. 1; v. 261; p. 153.
- Ventilator. A. E. Burdin. No. 1,298,171; Mar. 25; v. 260; p. 608.
- Ventilator. F. E. Crampton. No. 1,298,671; Apr. 1; v. 261; p. 11.
- Ventilator. O. Debold. No. 1,306,253; June 10; v. 263; p. 225.
- Ventilator. H. D. Duckham and H. J. Pfeiffer. No. 1,290,936; Jan. 14; v. 258; p. 247.
- Ventilator. L. J. Dutton. No. 1,310,327; July 15; v. 264; p. 492.
- Ventilator. R. R. Freer. No. 1,292,411; Jan. 21; v. 258; p. 629.
- Ventilator. J. A. Glass. No. 1,308,236; July 1; v. 264; p. 42.
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- Ventilator. J. McClelland. No. 1,301,858; Apr. 29; v. 261; p. 818.
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- Ventilator. U. G. McQueen. No. 1,324,973; Dec. 16; v. 269; p. 436.
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- Ventilator. M. J. Morehouse. No. 1,309,867; July 15; v. 264; p. 409.
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- Ventilator. R. S. Shaw. No. 1,298,584; Mar. 25; v. 260; p. 697.
- Ventilator. W. J. Smith. No. 1,308,264; July 1; v. 264; p. 47.
- Ventilator. J. Sylvan. No. 1,293,975; Feb. 11; v. 259; p. 268.
- Ventilator. J. Sylvan. No. 1,295,813; Feb. 25; v. 259; p. 748.
- Ventilator. J. Sylvan. No. 1,301,195; Apr. 22; v. 261; p. 659.
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- Ventilator. J. C. Tippet. No. 1,293,249; Feb. 4; v. 259; p. 63.
- Ventilator. C. H. Vickery. No. 1,322,847; Nov. 25; v. 268; p. 634.
- Ventilator and chimney-cap. R. T. Merrill. No. 1,326,523; Dec. 30; v. 269; p. 780.
- Ventilator for barns and the like. Cupola. H. Silver. No. 1,312,586; Aug. 12; v. 265; p. 169.

- Ventilator-hood, Rotatable. A. M. Basman. No. 1,295,953; Mar. 4; v. 260; p. 30.
- Ventilator unit. M. G. Hubbard. No. 1,296,394; Mar. 4; v. 260; p. 131.
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- Vessel-closures, Securing. E. F. Hulbert. No. 1,319,083; Oct. 21; v. 267; p. 358.
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- Vessel construction. M. Golein. No. 1,321,733; Nov. 11; v. 268; p. 323.
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- Vessel, Heating. E. C. Sullivan and W. C. Taylor. No. 1,304,622; May 27; v. 262; p. 506.
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- Vessel-propelling mechanism. H. M. Hamilton. No. 1,321,304; Nov. 11; v. 268; p. 242.
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- Vessels, Apparatus for raising sunken. F. W. Pendergast. No. 1,293,900; Feb. 11; v. 259; p. 246.
- Vessels, Apparatus for salvaging sunken. C. E. London. No. 1,296,983; Mar. 11; v. 260; p. 300.
- Vessels, Apparatus for sealing. H. W. Johnson. No. 1,298,218; Mar. 25; v. 260; p. 619.
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- Vessels, Construction of ways for launching. W. Gatewood. No. 1,292,754; Jan. 28; v. 258; p. 733.
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- Vessels, Pontoon for raising sunken. A. Cuning. No. 1,292,718; Jan. 28; v. 258; p. 725.
- Vessels, Pressure-relieving device for. J. Maly. No. 1,320,020; Oct. 28; v. 267; p. 559.
- Vessels, Removable handle for. S. Sulzbacher. No. 1,296,228; Mar. 4; v. 260; p. 94.
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- Vest, Necktie. P. E. Kvistad. No. 1,299,582; Apr. 8; v. 261; p. 248.
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- Vial-necking machine. W. G. Fredrick, W. E. Glaspey, and C. F. Cox. No. 1,322,778; Nov. 25; v. 268; p. 622.
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- Vibration-detector. C. A. Finley. No. 1,324,959; Dec. 16; v. 269; p. 434.
- Vibration-measure. A. F. Zahm. No. 1,316,260; Sept. 16; v. 266; p. 357.
- Vibration-meter. E. H. Thompson. No. 1,293,984; Feb. 11; v. 259; p. 266.
- Vibration-motor and controlling same, Constant amplitude of. L. R. McDonald. No. 1,290,264; Jan. 7; v. 258; p. 61.
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- Vibration-transferring means. H. Smith. No. 1,313,751; Aug. 19; v. 265; p. 408.
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- Vibrator, Electric. R. Stockinger. No. 1,315,612; Sept. 9; v. 266; p. 217.
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- Vibrator for retouching implements, Electric. W. Putkowski. No. 1,325,375; Dec. 16; v. 269; p. 511.
- Vibrator, Medical. W. H. Woolverton. No. 1,302,620; May 6; v. 262; p. 26.
- Vibrators, Self-contained motor and speed control for. C. Ender, Jr. No. 1,323,622; Dec. 2; v. 269; p. 75.
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- Violin-piano. J. C. Strawn. No. 1,300,894; Apr. 15; v. 261; p. 559.
- Violin shoulder-rest. J. McLay. No. 1,296,414; Mar. 4; v. 260; p. 135.
- Violin shoulder-support, Adjustable. M. Meier. No. 1,296,831; Mar. 11; v. 260; p. 264.
- Violin-string. J. H. Bowe. No. 1,300,112; Apr. 8; v. 261; p. 366.
- Violins, Chin-rest for. H. C. Watson. No. 1,311,670; July 29; v. 264; p. 805.
- Violins, Keyboard attachment for. G. A. G. Ekman. No. 1,318,316; Oct. 7; v. 267; p. 126.
- Violins, Rosin-holder for. L. Duke. No. 1,293,736; Feb. 11; v. 259; p. 207.
- Viscose for production of artificial threads and other structures. Precipitation of. G. Walther. No. 1,292,544; Jan. 28; v. 258; p. 683.
- Viscosimeter. A. S. Dysart. No. 1,292,276; Jan. 21; v. 258; p. 598.
- Viscous materials, Device for stirring. E. E. Boath. No. 1,298,651; Apr. 1; v. 261; p. 6.
- Vise. P. Broadboks. No. 1,317,347; Sept. 30; v. 266; p. 639.
- Vise. E. W. Fulton. No. 1,299,828; Apr. 8; v. 261; p. 305.
- Vise. V. R. Koontz. No. 1,310,351; July 15; v. 264; p. 496.
- Vise. E. J. Miles. No. 1,311,986; Aug. 5; v. 265; p. 25.
- Vise. G. Moore. No. 1,314,351; Aug. 26; v. 265; p. 557.
- Vise. F. W. Peters. No. 1,323,647; Dec. 2; v. 269; p. 79.
- Vise. D. W. Reese. No. 1,302,220; Apr. 29; v. 261; p. 886.
- Vise. H. F. Seymour. No. 1,314,985; Sept. 2; v. 266; p. 94.
- Vise. G. B. Taylor. No. 1,326,804; Dec. 30; v. 269; p. 833.
- Vise. H. A. Tooker. No. 1,305,321; June 3; v. 263; p. 18.
- Vise. P. O. Unger. No. 1,292,930; Jan. 28; v. 258; p. 775.
- Vise. G. M. Yost. No. 1,298,145; Mar. 25; v. 260; p. 603.
- Vise. G. M. Yost. No. 1,298,146; Mar. 25; v. 260; p. 603.
- Vise and stop for work-benches, Automatic. W. Sophar and I. A. Hammond. No. 1,308,922; July 8; v. 264; p. 196.
- Vise, Automatic machine-. J. R. Long. No. 1,299,488; Apr. 8; v. 261; p. 226.
- Vise, Bearing-shim. A. B. Lockhart. No. 1,315,372; Sept. 9; v. 266; p. 174.
- Vise, Bench-. M. E. Winans. No. 1,296,723; Mar. 11; v. 260; p. 239.
- Vise, Conduit-. F. W. Hallin. No. 1,317,973; Oct. 7; v. 267; p. 59.
- Vise for drilling-machines. J. M. Joyce. No. 1,315,509; Sept. 9; v. 266; p. 199.
- Vise-jaws, Face-plate for. G. H. Hohnsbeen. No. 1,307,049; June 17; v. 263; p. 404.
- Vise-jaws, Face-plate for. G. H. Hohnsbeen. No. 1,307,050; June 17; v. 263; p. 404.
- Vise, Machinist's. J. R. Long. No. 1,303,693; May 13; v. 262; p. 254.
- Vise, Nut-. P. Pedersen. No. 1,314,017; Aug. 26; v. 265; p. 493.
- Vise or like work-holder. A. R. J. Wilkinson. No. 1,312,011; Aug. 5; v. 265; p. 29.
- Vise or press, Adjustable. F. B. Goodale. No. 1,317,439; Sept. 30; v. 266; p. 657.
- Vise, Pipe-. M. Dean. No. 1,318,057; Oct. 7; v. 267; p. 76.
- Vise, Quick-action. C. A. Erickson. No. 1,298,919; Apr. 1; v. 261; p. 69.
- Vise, Quick-opening. A. G. Hagstrom. No. 1,321,627; Nov. 11; v. 268; p. 303.
- Vise, Rapidly-acting. V. A. Fagerstrom. No. 1,295,019; Feb. 18; v. 259; p. 542.
- Vise, Saw-. F. E. Parr. No. 1,313,728; Aug. 19; v. 265; p. 404.
- Vises, Attachment to saw-. A. F. McKenzie. No. 1,308,248; July 1; v. 264; p. 44.
- Visibility of objects, System for reducing. G. Brush. No. 1,296,753; Mar. 11; v. 260; p. 248.
- Vita-meter. W. Leigh. No. 1,317,375; Sept. 30; v. 266; p. 645.
- Vivigraphic record and process, Modified. E. S. Hopkins, Jr. No. 1,302,367; Apr. 29; v. 261; p. 914.
- Volatile matter, Apparatus for treating material containing condensable. C. O. Hoover. No. 1,305,109; May 27; v. 262; p. 597.
- Voltage-regulating means, Instantaneous-. E. O. Schweitzer. No. 1,309,814; July 15; v. 264; p. 399.
- Voltage-regulating system. R. M. Carothers. No. 1,290,908; Jan. 14; v. 258; p. 241.
- Voltage-regulating system. R. E. Cullings. No. 1,312,165; Aug. 5; v. 265; p. 59.
- Voltage-regulator. A. F. Moray. No. 1,303,360; May 13; v. 262; p. 194.
- Volume-corrector. L. C. Loewenstein. No. 1,313,099; Aug. 12; v. 265; p. 269.
- Voting-machine. B. W. Gaddis. No. 1,304,555; May 27; v. 262; p. 494.
- Voting-machine. S. Loc. No. 1,307,098; June 17; v. 263; p. 413.
- Voting-machine. D. P. McCarthy. No. 1,307,913; June 24; v. 263; p. 594.
- Voting machine, Assembly-. F. L. Dyer. No. 1,308,279; July 1; v. 264; p. 50.
- Voting-machines, Keyboard mechanism for. S. Loc. No. 1,304,580; May 27; v. 262; p. 498.
- Voting-machines, Primary-election mechanism for. S. Loc. No. 1,305,134; May 27; v. 262; p. 601.
- Voting-machines, Register-reading scale for. S. Loc. No. 1,304,581; May 27; v. 262; p. 498.
- Voting mechanism. W. H. Babcock. No. 1,300,686; Apr. 15; v. 261; p. 514.
- Voting mechanism, Second-choice-. S. Loc. No. 1,310,196; July 15; v. 264; p. 468.
- Vulcanizable composition. W. T. Hale. No. 1,300,263; Apr. 15; v. 261; p. 425.
- Vulcanizable composition of matter having comminuted leather as a base and preparing same. J. S. Campbell. No. 1,302,463; Apr. 29; v. 261; p. 933.
- Vulcanizable materials, Treatment of. R. B. Price. No. 1,308,014; June 24; v. 263; p. 614.
- Vulcanizer. J. W. Dean, Jr. No. 1,291,434; Jan. 14; v. 258; p. 863.
- Vulcanizer. S. W. Harris. No. 1,306,008; June 10; v. 263; p. 177.
- Vulcanizer. E. T. Horsey. No. 1,311,560; July 29; v. 264; p. 785.
- Vulcanizer. G. H. Lewis. No. 1,305,474; June 3; v. 263; p. 46.
- Vulcanizer. A. B. Low. No. 1,315,731; Sept. 9; v. 266; p. 238.
- Vulcanizer. I. E. McElroy and L. Risk. No. 1,301,721; Apr. 22; v. 261; p. 760.
- Vulcanizer. W. F. Ray. No. 1,296,215; Mar. 4; v. 260; p. 92.
- Vulcanizer. H. K. Wheelock. No. 1,321,961; Nov. 18; v. 268; p. 417.
- Vulcanizer. J. K. Williams. No. 1,308,517; July 1; v. 264; p. 93.
- Vulcanizer, Electric. O. C. Dennis. No. 1,301,233; Apr. 22; v. 261; p. 667.
- Vulcanizer, Electric. O. C. Dennis. No. 1,309,845; July 15; v. 264; p. 405.
- Vulcanizer, Retread-. E. Harris. No. 1,301,431; Apr. 22; v. 261; p. 705.
- Vulcanizer, Retread-. P. H. Wilkinson. No. 1,297,765; Mar. 18; v. 260; p. 498.
- Vulcanizing. J. R. Gammeter. No. 1,290,781; Jan. 7; v. 258; p. 174.
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- Vulcanizing apparatus. F. D. Goodlake. No. 1,318,273; Oct. 7; v. 267; p. 118.
- Vulcanizing apparatus. J. E. James and A. W. Adams. No. 1,296,291; Mar. 4; v. 260; p. 108.
- Vulcanizing apparatus. J. E. Rasor. No. 1,305,408; June 3; v. 263; p. 33.
- Vulcanizing apparatus. C. A. Shaler. No. 1,312,364; Aug. 5; v. 265; p. 95.
- Vulcanizing apparatus and process. E. Fetter. No. 1,312,029; Aug. 5; v. 265; p. 34.
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- Vulcanizing device. M. A. Marquette. No. 1,301,148; Apr. 22; v. 261; p. 649.
- Vulcanizing device. W. Oppenheimer. No. 1,323,544; Dec. 2; v. 269; p. 61.
- Vulcanizing device. J. H. Wright. No. 1,298,620; Mar. 25; v. 260; p. 704.
- Vulcanizing-machine. J. Porzel. No. 1,308,111; July 1; v. 264; p. 19.
- Vulcanizing-press for battery-jars. J. R. Gammeter. No. 1,306,001; June 10; v. 263; p. 176.
- Vulcanizing-press mold. J. H. Birkenbeuel. No. 1,311,375; July 29; v. 264; p. 751.
- Vulcanizing-press, Multiple. E. Nall. No. 1,316,105; Sept. 16; v. 266; p. 321.
- Vulcanizing-tool. C. T. White. No. 1,298,612; Mar. 25; v. 260; p. 702.
- Wafers, cakes, and the like, Machine for depositing connections on. F. G. Salerno. No. 1,303,599; May 13; v. 262; p. 237.
- Wagon. F. A. Bort. No. 1,307,109; June 17; v. 263; p. 415.
- Wagon. H. Bucklin. No. 1,297,438; Mar. 18; v. 260; p. 427.
- Wagon and cart, Dumping. T. Wright. No. 1,322,155; Nov. 18; v. 268; p. 452.
- Wagon and cart, Dumping. T. E. Wright. No. 1,322,156; Nov. 18; v. 268; p. 452.
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- Wagon bolster and detachable stake. H. F. Miller. No. 1,326,413; Dec. 30; v. 269; p. 758.
- Wagon-bolsters, Removable standard for. J. A. Moxey. No. 1,312,343; Aug. 5; v. 265; p. 91.
- Wagon-brace. J. Albritton. No. 1,322,992; Nov. 25; v. 268; p. 662.
- Wagon-brake. R. T. Easley. No. 1,314,469; Aug. 26; v. 265; p. 579.
- Wagon-brake. W. L. McCaslin. No. 1,294,286; Feb. 11; v. 259; p. 337.
- Wagon-brake. M. L. Walker. No. 1,299,071; Apr. 1; v. 261; p. 104.
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- Wagon, Dumping-. M. J. Sasgen. No. 1,322,958; Nov. 25; v. 268; p. 655.
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- Wagon end-gate. A. L. Nicholson. No. 1,301,300; Apr. 22; v. 261; p. 680.
- Wagon for ice, ice-cream, and the like. A. Friedrich. No. 1,307,044; June 17; v. 263; p. 403.
- Wagon hay-rack. J. S. Myers. No. 1,296,207; Mar. 4; v. 260; p. 90.
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- Wagon-trailer coupling. C. C. Keesler and F. A. Clock. No. 1,319,224; Oct. 21; v. 267; p. 885.
- Wagon-trailer coupling. G. C. West. No. 1,293,275; Feb. 4; v. 259; p. 70.
- Wagon-train. W. Atkins. (Reissue.) No. 14,639; Apr. 29; v. 261; p. 938.
- Wagon-wheel. E. E. Palm. No. 1,320,491; Nov. 4; v. 268; p. 25.
- Wagons, Hoisting and unloading sling for. C. W. Linertz. No. 1,325,025; Dec. 16; v. 269; p. 446.
- Wagons, Mechanism for unloading. E. Kelly. No. 1,313,388; Aug. 19; v. 265; p. 340.
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- Wall-board-fastening device. C. A. Upson. No. 1,324,483; Dec. 9; v. 269; p. 283.
- Wall-board-fastening device. J. E. B. With. No. 1,297,523; Mar. 18; v. 260; p. 445.
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- Wall construction. E. N. Wood. No. 1,307,767; June 24; v. 263; p. 567.
- Wall construction. R. F. Yourtee. No. 1,297,960; Mar. 18; v. 260; p. 538.
- Wall construction and channel-brick therefor. J. P. B. Fiske. No. 1,304,552; May 27; v. 262; p. 493.
- Wall construction and channel brick or block therefor. A. Hardoncourt, Jr. No. 1,311,069; July 22; v. 261; p. 661.
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- Wall construction, Sectionally-spaced hollow-. J. A. Ferguson. No. 1,298,025; Mar. 25; v. 260; p. 578.
- Wall-corner construction and stud. A. Dickson. No. 1,294,064; Feb. 11; v. 259; p. 285.
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- Wall-surfaces, Machine for applying plaster to. C. Weber. No. 1,323,663; Dec. 2; v. 269; p. 82.
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- Washboiler, washing-machine, and sterilizer, H. Schwanenberg. No. 1,321,155; Nov. 11; v. 268; p. 213.
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- Washing and drying machine, R. H. Snape. No. 1,293,962; Feb. 11; v. 259; p. 260.
- Washing and rinsing machine, E. Lehmann. No. 1,296,823; Mar. 11; v. 260; p. 262.
- Washing apparatus, P. F. Cummings. No. 1,300,128; Apr. 8; v. 261; p. 369.
- Washing apparatus, Air-, W. D. Philips. No. 1,296,315; Mar. 4; v. 260; p. 113.
- Washing apparatus, Gold-, J. H. Fellows. No. 1,316,835; Sept. 23; v. 266; p. 507.
- Washing appliance, J. W. McFarland. No. 1,292,833; Jan. 28; v. 258; p. 752.
- Washing device, G. L. Grabe. No. 1,293,411; Feb. 4; v. 259; p. 102.
- Washing, disinfecting, and dyeing machine, W. A. E. Henricl. No. 1,309,411; July 8; v. 264; p. 287.
- Washer-feeding machine, C. J. De Muth. No. 1,307,900; June 24; v. 263; p. 592.
- Washing golf-balls and other articles, Machine for, G. H. Lambert. No. 1,313,703; Aug. 19; v. 265; p. 399.
- Washing-machine, F. B. Beckwith. No. 1,293,645; Apr. 1; v. 261; p. 5.
- Washing-machine, C. P. Bettenga. No. 1,326,636; Dec. 30; v. 269; p. 801.
- Washing-machine, G. S. Blakeslee. No. 1,293,676; Feb. 11; v. 259; p. 193.
- Washing-machine, G. S. Blakeslee. No. 1,313,455; Aug. 19; v. 265; p. 353.
- Washing-machine, G. S. Blakeslee. No. 1,314,041; Aug. 26; v. 265; p. 498.
- Washing-machine, J. Botts. No. 1,297,071; Mar. 11; v. 260; p. 320.
- Washing-machine, H. Bright. No. 1,316,763; Sept. 23; v. 266; p. 495.
- Washing-machine, F. P. Brintlinger. No. 1,295,421; Feb. 25; v. 259; p. 657.
- Washing-machine, C. Chapman. No. 1,312,831; Aug. 12; v. 265; p. 217.
- Washing-machine, W. J. Conlon. No. 1,298,899; Apr. 1; v. 261; p. 64.
- Washing-machine, C. E. Crow. No. 1,297,107; Mar. 11; v. 260; p. 328.
- Washing-machine, R. W. Donley. No. 1,318,981; Oct. 14; v. 267; p. 313.
- Washing-machine, A. Feyes. No. 1,290,151; Jan. 7; v. 258; p. 33.
- Washing-machine, B. E. Getz. No. 1,315,627; Sept. 9; v. 266; p. 219.
- Washing-machine, W. G. Gibbins. No. 1,304,470; May 20; v. 262; p. 439.
- Washing-machine, J. F. Gubbins. No. 1,303,294; May 13; v. 262; p. 182.
- Washing-machine, W. A. E. Henricl. No. 1,309,412; July 8; v. 264; p. 287.
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- Washing-machine, A. Humbberger. No. 1,301,055; Apr. 15; v. 261; p. 595.
- Washing-machine, J. B. Kirby. No. 1,323,774; Dec. 2; v. 269; p. 103.
- Washing-machine, W. S. Lillibridge. No. 1,294,682; Feb. 18; v. 259; p. 464.
- Washing-machine, C. F. Lockhart and E. H. Roby. No. 1,316,963; Sept. 23; v. 266; p. 530.
- Washing-machine, L. U. Loomis. No. 1,321,381; Nov. 11; v. 268; p. 257.
- Washing-machine, W. D. MacQuesten. No. 1,320,019; Oct. 28; v. 267; p. 559.
- Washing-machine, J. A. Minger. No. 1,301,292; Apr. 22; v. 261; p. 679.
- Washing machine, Dish-, F. Monte. No. 1,312,414; Aug. 5; v. 265; p. 105.
- Washing-machine, F. M. Mulligan. No. 1,307,919; June 24; v. 263; p. 595.
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- Washing-machine, E. H. Sherbondy. No. 1,292,525; Jan. 28; v. 258; p. 678.
- Washing-machine, B. A. Stone. No. 1,292,532; Jan. 28; v. 258; p. 680.
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- Washing-machine, R. L. Wearne. No. 1,319,314; Oct. 21; v. 267; p. 402.
- Washing machine, Cask-, G. G. Frelinghuysen and L. A. Hawthorne. No. 1,298,489; Mar. 25; v. 260; p. 677.
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- Washing-machine mechanism, Clothes-, J. N. Kelman. No. 1,319,346; Oct. 21; v. 267; p. 408.
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- Washing-machine-operating mechanism, A. Meyer. No. 1,321,066; Nov. 4; v. 268; p. 133.
- Washing-machine pounder, L. E. Dietz. No. 1,302,326; Apr. 29; v. 261; p. 906.
- Washing-machine, Power, H. H. Toll and F. C. Duff. No. 1,305,953; June 3; v. 263; p. 137.
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- Washing-machines, Alternating rotary drive for, G. K. Parsons. No. 1,308,104; July 1; v. 264; p. 18.
- Washing-machines, Driving mechanism for, J. F. Gubbins. No. 1,294,448; Feb. 18; v. 259; p. 411.
- Washing-machines, Operating means for, F. Michalick. No. 1,311,003; July 22; v. 264; p. 648.
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- Washing-machines, Operating mechanism for, W. H. Sargent. No. 1,322,627; Nov. 25; v. 268; p. 594.
- Washing plant, Portable, J. P. Dovel. No. 1,309,754; July 15; v. 264; p. 388.
- Washing pulp-wood, Machine for, J. L. Phillips. No. 1,309,543; July 8; v. 264; p. 312.
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- Washline-support, E. Heitman. No. 1,312,541; Aug. 12; v. 265; p. 159.
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- Washstand, Collapsible, J. Zawisza. No. 1,297,630; Mar. 18; v. 260; p. 467.
- Washstand, Folding, E. J. Olson. No. 1,325,107; Dec. 16; v. 269; p. 462.
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- Washubs and the like, Cover for, W. Fader, J. Schatman, and L. Goldberg. No. 1,307,438; June 24; v. 263; p. 508.
- Waste fixture, Basin-, W. G. Newton. No. 1,311,241; July 29; v. 264; p. 725.
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- Waste-pipe cleaner. L. Klarman. No. 1,312,404; Aug. 5; v. 265; p. 103.
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- Watch. C. E. De Long. No. 1,292,269; Jan. 21; v. 258; p. 596.
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- Watch. M. J. Golden. No. 1,294,895; Feb. 18; v. 259; p. 514.
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- Watch crystal and bezel. L. E. F. Wachter. No. 1,308,690; July 1; v. 264; p. 125.
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- Water-closet. E. G. Watrous. No. 1,316,871; Sept. 23; v. 266; p. 514.
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- Water-heating device. J. H. Bacon. No. 1,322,865; Nov. 25; v. 268; p. 638.
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- Water-hoist conveyor, Self-adjustable. J. W. Emerson. No. 1,304,465; May 20; v. 262; p. 438.
- Water-level boiler-gage. C. H. Lank. No. 1,307,982; June 24; v. 263; p. 607.
- Water-level indicator. C. E. Broad. No. 1,308,620; July 1; v. 264; p. 112.
- Water-level indicator and alarm. A. Liberty. No. 1,318,213; Oct. 7; v. 267; p. 106.
- Water-meter. R. S. Bassett. No. 1,307,337; June 24; v. 263; p. 489.
- Water-meter connection. E. H. Ford. No. 1,301,243; Apr. 22; v. 261; p. 669.
- Water-meter connection and valve. J. W. Calhoun. No. 1,300,925; Apr. 15; v. 261; p. 565.
- Water-mixer. S. K. Ouzoun-Boghossian. No. 1,316,637; Sept. 23; v. 266; p. 471.
- Water-motor. J. Charles. No. 1,296,622; Mar. 11; v. 260; p. 217.
- Water-motor. J. G. Gracey. No. 1,319,767; Oct. 21; v. 267; p. 511.
- Water-motor. J. Havlina. No. 1,304,972; May 27; v. 262; p. 571.
- Water-motor. O. L. Howe. No. 1,312,326; Aug. 5; v. 265; p. 88.
- Water-motor. W. S. Jones. No. 1,306,487; June 10; v. 263; p. 268.
- Water-motor. A. E. McCaughey. No. 1,291,963; Jan. 21; v. 258; p. 522.
- Water motor and pump, Combined. F. H. Crago. No. 1,317,352; Sept. 30; v. 266; p. 640.
- Water-motor machine, Current. M. A. Ellis. No. 1,304,284; May 20; v. 262; p. 402.
- Water-motor, Oscillatory. F. Stickel. No. 1,306,863; June 17; v. 263; p. 369.
- Water or fluid heaters with faucets, Attachment for. N. Gerson. No. 1,314,324; Aug. 26; v. 265; p. 552.
- Water or steam, Heater for hot. J. T. Bunting. No. 1,305,686; June 3; v. 263; p. 86.
- Water, particularly for ice-making, Clarifying and re-boiling. A. E. Krause. No. 1,315,558; Sept. 9; v. 266; p. 208.
- Water pastes into oil pastes, Conversion of. H. P. Fletcher. No. 1,317,784; Oct. 7; v. 267; p. 23.
- Water-power device. R. C. Pratt. No. 1,320,650; Nov. 4; v. 268; p. 54.
- Water-power mechanism. N. E. Royer. No. 1,325,379; Dec. 16; v. 269; p. 512.
- Water-power plant. A. C. Watkins. No. 1,308,649; July 1; v. 264; p. 117.
- Water purification. W. O. Snelling. No. 1,325,213; Dec. 16; v. 269; p. 482.
- Water, Purifying. H. Kriegsheim. No. 1,305,123; May 27; v. 262; p. 599.
- Water purifying and filtering device. E. L. Brillhart. No. 1,320,118; Oct. 28; v. 267; p. 577.
- Water, Purifying and sterilizing. R. Hottinger and O. Bromberg. No. 1,324,118; Dec. 9; v. 269; p. 213.
- Water-purifying apparatus. J. W. Brenkert. No. 1,309,876; July 15; v. 264; p. 410.
- Water-purifying material and making same. H. Kriegsheim. No. 1,312,552; Aug. 12; v. 265; p. 161.
- Water-repellent material and producing same. J. F. White. No. 1,320,353; Oct. 28; v. 267; p. 620.
- Water, Separating hydrocarbons from. W. A. Brown. No. 1,309,794; July 15; v. 264; p. 395.
- Water-softener. W. H. Green. No. 1,321,622; Nov. 11; v. 268; p. 302.
- Water softening and purifying system. C. A. Wiggins. No. 1,318,122; Oct. 7; v. 267; p. 87.
- Water-softening apparatus. C. L. Kennicott. No. 1,303,679; May 13; v. 262; p. 252.
- Water-softening material, Producing. G. H. Widner. No. 1,294,007; Feb. 11; v. 259; p. 272.
- Water-softening plants, Feeder for. W. Warriner. No. 1,326,553; Dec. 30; v. 269; p. 785.
- Water-soluble potash, Obtaining. W. D. Richardson. No. 1,295,601; Feb. 25; v. 259; p. 700.
- Water-space joint for cylinders and motor-bases, Internally-packed. C. M. Mohler. No. 1,320,891; Nov. 4; v. 268; p. 101.
- Water-spraying means. W. F. Witt. No. 1,311,938; Aug. 5; v. 265; p. 16.
- Water-sprinkler. J. B. Rico. No. 1,305,411; June 3; v. 263; p. 34.
- Water-stage recorders, Sender for. W. Hess, Jr. No. 1,313,690; Aug. 19; v. 265; p. 397.
- Water-still. C. D. Crane. No. 1,314,790; Sept. 2; v. 266; p. 59.
- Water-supply system. T. R. Arnold. No. 1,304,529; May 27; v. 262; p. 489.
- Water-supplying apparatus. C. M. Upham. No. 1,291,280; Jan. 14; v. 258; p. 326.
- Water-tank. G. T. Horton. (Reissue.) No. 14,775; Dec. 23; v. 269; p. 674.
- Water-tank and force-pump, Combined. S. A. Brown. No. 1,294,041; Feb. 11; v. 259; p. 279.
- Water-tank, Auxiliary. C. J. Dalley. No. 1,300,702; Apr. 15; v. 261; p. 518.
- Water-tight head-gate. F. Jarboe and R. G. Webster. No. 1,320,472; Nov. 4; v. 268; p. 22.
- Water-tight joints in aqueducts and the like, Method and means for effecting. R. R. Robertson. No. 1,317,943; Oct. 7; v. 267; p. 54.
- Water-tube boiler. G. Cook. No. 1,290,096; Jan. 7; v. 258; p. 20.
- Water-tube boiler. P. J. Healy. No. 1,293,644; Feb. 4; v. 259; p. 155.
- Water-tube boiler. F. Sargent and H. C. Heaton. No. 1,311,467; July 29; v. 264; p. 767.
- Water-tube boiler. J. P. Sneddon. No. 1,318,509; Oct. 14; v. 267; p. 224.

- Water-tube boiler. J. P. Sneddon. No. 1,321,566; Nov. 11; v. 268; p. 292.
- Water-tube boiler. E. V. Varcoe. No. 1,302,458; Apr. 29; v. 261; p. 932.
- Water-tube boiler. W. R. Wood. No. 1,300,087; Apr. 8; v. 261; p. 361.
- Water-tube boiler and superheater, Combined marine. J. Eggers and P. Thomsen. No. 1,316,701; Sept. 23; v. 266; p. 483.
- Water-tube boiler, Vertical cylindrical. H. Horiuchi. No. 1,313,692; Aug. 19; v. 265; p. 397.
- Water-vapor into the atmosphere of rooms, Apparatus for generating and diffusing. J. Wright and W. H. Marshall. No. 1,320,724; Nov. 4; v. 268; p. 68.
- Water-waste control. A. C. Cogswell. No. 1,304,157; May 20; v. 262; p. 377.
- Water-wheel. R. A. Gipple. No. 1,316,440; Sept. 16; v. 266; p. 385.
- Water-wheel. E. B. Fent and G. W. Chandler. No. 1,306,222; June 10; v. 263; p. 217.
- Water-wheel. O. C. Huber. No. 1,296,082; Mar. 4; v. 260; p. 61.
- Water-wheel. C. Le Duc. No. 1,320,626; Nov. 4; v. 268; p. 50.
- Water-wheel. G. O. Lear. No. 1,293,480; Feb. 4; v. 259; p. 117.
- Water-wheel, Current. S. W. Woodland. No. 1,290,466; Jan. 7; v. 258; p. 110.
- Water-wheels, Combined support and water-deflector for. J. J. Gillinger. No. 1,292,454; Jan. 28; v. 258; p. 661.
- Waters and other effervescent beverages, Apparatus for delivering aerated. J. Sheehan. No. 1,302,092; Apr. 29; v. 261; p. 862.
- Watering apparatus, Stock. F. Erickson. No. 1,322,682; Nov. 25; v. 268; p. 604.
- Watering-carts and the like, Regulating device for. G. S. Schlatter and G. Segin. No. 1,302,227; Apr. 29; v. 261; p. 887.
- Watering device. R. B. Glidden. No. 1,314,585; Sept. 2; v. 266; p. 21.
- Watering device. M. J. Young. No. 1,307,429; June 24; v. 263; p. 506.
- Watering device, Hog. C. Keairnes. No. 1,325,474; Dec. 16; v. 269; p. 529.
- Watering-fountain, Automatic. L. R. Oakes. No. 1,290,775; Jan. 7; v. 258; p. 183.
- Watering fountain, Poultry-. D. M. Holland and F. P. Sweeden. No. 1,325,640; Dec. 23; v. 269; p. 578.
- Watering trough, Hog-. J. H. Wickstrom. No. 1,313,146; Aug. 12; v. 265; p. 279.
- Watering-trough, Sanitary. R. S. Kirkpatrick. No. 1,319,095; Oct. 21; v. 267; p. 360.
- Waterproof adhesives, Manufacturing. S. Buttermann. No. 1,291,396; Jan. 14; v. 258; p. 354.
- Waterproof and airproof cardboard and making same. O. A. Heppes. No. 1,320,549; Nov. 4; v. 268; p. 36.
- Waterproof cement. S. Cabot. No. 1,305,645; June 3; v. 263; p. 79.
- Waterproof composition and product and the like and producing same. A. W. Schorger. No. 1,310,376; July 15; v. 264; p. 501.
- Waterproof container or envelop. P. H. and H. H. Allen. No. 1,295,832; Mar. 4; v. 260; p. 3.
- Waterproof footwear. J. A. Ames. No. 1,290,692; Jan. 7; v. 258; p. 164.
- Waterproof garment-supporter. I. Phillips. No. 1,292,042; Jan. 21; v. 258; p. 541.
- Waterproof glue. A. C. Lindauer. No. 1,310,706; July 22; v. 264; p. 593.
- Waterproof paper. K. Konagai. No. 1,307,405; June 24; v. 263; p. 502.
- Waterproof plaster-board and making same. J. P. Sexton. No. 1,325,883; Dec. 23; v. 269; p. 623.
- Waterproof roofing material, &c., and making same. J. P. Elliott. No. 1,305,081; May 27; v. 262; p. 592.
- Waterproof seam for composition-board. A. G. Paffenbarger. No. 1,299,999; Apr. 8; v. 261; p. 340.
- Waterproofing composition. G. M. Garlick. No. 1,315,110; Sept. 2; v. 266; p. 116.
- Waterproofing composition and making same. M. B. Mayer. No. 1,326,079; Dec. 23; v. 269; p. 660.
- Waterproofing compositions, Making. G. M. Garlick. No. 1,315,109; Sept. 2; v. 266; p. 116.
- Waterproofing compositions, Purifying. O. E. Gelertsen. No. 1,310,158; July 15; v. 264; p. 462.
- Waterproofing fabrics. J. E. Paquet. No. 1,306,274; June 10; v. 263; p. 229.
- Waterproofing fabrics. H. P. Pearson. No. 1,307,373; June 24; v. 263; p. 496.
- Waterproofing garments. W. S. Barker. No. 1,326,630; Dec. 30; v. 269; p. 800.
- Waterproofing sheet material. A. L. Clapp. No. 1,312,682; Aug. 12; v. 265; p. 187.
- Watt-hour meter, Prepayment. W. M. Bradshaw and W. G. Mylius. No. 1,321,506; Nov. 11; v. 268; p. 280.
- Wave and current motor. C. H. Roberts. No. 1,300,194; Apr. 8; v. 261; p. 384.
- Wave-detector. W. Schloemilch. No. 1,294,177; Feb. 11; v. 259; p. 312.
- Wave-engine. C. E. Garwood. No. 1,292,303; Jan. 21; v. 258; p. 604.
- Wave-force-utilizing device. E. B. Arnold. No. 1,290,867; Jan. 14; v. 258; p. 230.
- Wave lengths, Adjustment of. G. H. Clark. No. 1,323,155; Nov. 25; v. 268; p. 692.
- Wave-meter. D. P. Donle. No. 1,305,202; May 27; v. 262; p. 615.
- Wave-motor. S. R. Adams. No. 1,318,637; Oct. 14; v. 267; p. 248.
- Wave-motor. C. R. Anell. No. 1,292,223; Jan. 21; v. 258; p. 586.
- Wave-motor. J. B. Bradford and A. F. Levitt. No. 1,324,335; Dec. 9; v. 269; p. 254.
- Wave-motor. G. S. Groves. No. 1,323,182; Nov. 25; v. 268; p. 698.
- Wave-motor. G. Heckerman. No. 1,303,897; May 20; v. 262; p. 331.
- Wave-motor. C. M. Johnson. No. 1,314,401; Aug. 26; v. 265; p. 567.
- Wave-motor. E. L. Osborn. No. 1,314,147; Aug. 26; v. 265; p. 517.
- Wave-motor. A. Roos. No. 1,306,974; June 17; v. 263; p. 390.
- Wave-motor. W. L. Weed. No. 1,315,692; Sept. 9; v. 266; p. 231.
- Wave-power, Device for accumulating. C. F. Jenkins. No. 1,294,808; Feb. 18; v. 259; p. 494.
- Wave-power, Plant for utilizing. E. J. Hansen. No. 1,315,629; Sept. 9; v. 266; p. 220.
- Waves, Method of and apparatus for producing asymetric potential. L. W. Chubb. No. 1,308,041; July 1; v. 264; p. 7.
- Wax from sugar-cane, Recovering. R. U. Bunker. No. 1,309,999; July 15; v. 264; p. 433.
- Way-bill system, Combination unit. A. L. Irvin and W. E. Sidell. No. 1,294,912; Feb. 18; v. 259; p. 518.
- Weaner. C. H. Patterson. No. 1,303,587; May 13; v. 262; p. 235.
- Weaner, Calif. E. A. Gorseth. No. 1,306,590; June 10; v. 263; p. 286.
- Weaner, Calif. J. Graumann. No. 1,294,897; Feb. 18; v. 259; p. 515.
- Weaner, Calif. J. H. McCamant. No. 1,325,795; Dec. 23; v. 269; p. 607.
- Weaving-bit. P. K. Richardson. No. 1,290,355; Jan. 7; v. 258; p. 82.
- Weapon. J. Talpa and J. Bednarz. No. 1,299,260; Apr. 1; v. 261; p. 147.
- Weapon, Combination-. A. Frank and E. C. Kopstein. No. 1,323,973; Dec. 2; v. 269; p. 141.
- Wearing-apparel fastener. H. Smith. No. 1,311,924; Aug. 5; v. 265; p. 14.
- Weather-board. M. K. Armstrong. No. 1,322,278; Nov. 18; v. 268; p. 476.
- Weather-indicator. A. J. De Voe. No. 1,312,961; Aug. 12; v. 265; p. 242.
- Weather-screen, Visual. S. A. de Normanville and L. H. Kent. No. 1,297,805; Mar. 18; v. 260; p. 505.
- Weather-strip. C. M. Eveleth. No. 1,298,190; Mar. 25; v. 260; p. 613.
- Weather-strip. J. A. Henderson. No. 1,317,974; Oct. 7; v. 267; p. 60.
- Weather-strip. W. D. Kendrick. No. 1,311,127; June 22; v. 264; p. 671.
- Weather-strip. H. McKinnon. No. 1,324,837; Dec. 16; v. 269; p. 412.
- Weather-strip. E. J. Meyer. No. 1,294,690; Feb. 18; v. 258; p. 467.
- Weather-strip. F. A. Schatz. No. 1,322,732; Nov. 25; v. 268; p. 613.
- Weather-strip, Automatic. W. J. Dillard and J. D. Taylor. No. 1,313,799; Aug. 19; v. 265; p. 418.
- Weatherproof building. A. E. Griffiths. No. 1,302,789; May 6; v. 262; p. 58.
- Weaving. D. Patrick. No. 1,295,196; Feb. 25; v. 259; p. 605.
- Weaving crimped or wire-mesh work material. D. S. Birrell and G. Smith. No. 1,311,746; July 29; v. 264; p. 819.
- Weaving machine, Basket. D. O. Cecil. No. 1,324,584; Dec. 9; v. 269; p. 303.
- Weaving machine, Mat-. J. H. Stanfield. No. 1,304,216; May 20; v. 262; p. 389.
- Weaving-machine mechanical movement. O. Johnson. No. 1,295,756; Feb. 25; v. 259; p. 734.
- Weaving-machine safety appliance. J. Meiklejohn. No. 1,316,914; Sept. 23; v. 266; p. 522.
- Weaving-warp, Device for facilitating the threading or drawing-in of. F. Ward and H. Fleming. No. 1,292,175; Jan. 21; v. 258; p. 574.
- Web-associating mechanism. H. M. Barber. No. 1,305,988; June 10; v. 263; p. 173.
- Web controlling and tension device. H. A. W. Wood. No. 1,314,178; Aug. 26; v. 265; p. 523.
- Web-feeding mechanism. E. Nordstrom. No. 1,297,587; Mar. 18; v. 260; p. 458.
- Web-feeding mechanism. E. J. Smith. No. 1,324,362; Dec. 9; v. 269; p. 259.
- Web-guiding device, Mechanical. G. P. Brand. No. 1,293,014; Feb. 4; v. 259; p. 10.
- Web-perfecting machine, Offset-. D. J. Scott. No. 1,311,138; July 22; v. 264; p. 673.



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- Web-removing device. H. A. W. Wood. No. 1,319,448; Oct. 21; v. 267; p. 428.
- Web-roll mechanism, Change. S. G. Goss and E. J. Smith. No. 1,316,708; Sept. 23; v. 266; p. 485.
- Web-roll support. R. C. Hawk. No. 1,309,621; July 15; v. 264; p. 363.
- Web-rolls, Tension and register adjusting mechanism for. H. A. W. Wood. No. 1,325,551; Dec. 23; v. 269; p. 561.
- Webs, Apparatus for cutting and removing blanks from moving. W. J. Kent. No. 1,303,680; May 13; v. 262; p. 252.
- Webs of material, Machine for operating upon. C. R. Seymour and O. M. Hoch. No. 1,299,513; Apr. 8; v. 261; p. 232.
- Webs of material, Machine for operating upon. C. R. Seymour and O. M. Hoch. No. 1,316,064; Sept. 10; v. 266; p. 314.
- Wedge. J. E. Merwin. No. 1,319,656; Oct. 21; v. 267; p. 468.
- Weed-destroyer. M. J. Anderson. No. 1,296,153; Mar. 4; v. 260; p. 78.
- Weed-destroyer. H. Mattson. No. 1,313,310; Aug. 19; v. 265; p. 326.
- Weed-destroyer. A. Tyson. No. 1,299,406; Apr. 1; v. 261; p. 179.
- Weed-extirminator. J. Gehringer. No. 1,312,246; Aug. 5; v. 265; p. 73.
- Weed-puller. L. H. Ludwig. No. 1,293,824; Feb. 11; v. 259; p. 229.
- Weed-puller. A. L. Romero. No. 1,292,376; Jan. 21; v. 258; p. 621.
- Weeds and grasses, Device for exterminating noxious. C. Mattern. No. 1,322,459; Nov. 18; v. 268; p. 511.
- Weeder. J. L. Florin. No. 1,293,745; Feb. 11; v. 259; p. 209.
- Weeder. D. B. Wolford. No. 1,322,742; Nov. 25; v. 268; p. 615.
- Weeding-machine. P. A. Price. No. 1,291,129; Jan. 14; v. 258; p. 292.
- Weeding-tool. L. Burch. No. 1,294,231; Feb. 11; v. 259; p. 325.
- Weft cutter, Spent. A. E. Stafford. No. 1,291,224; Jan. 14; v. 258; p. 313.
- Weft-detecting mechanism. A. Compagnon. No. 1,291,415; Jan. 14; v. 258; p. 358.
- Weft-replenishing looms, Filling-end-retaining means for. A. E. Rhoades. No. 1,292,058; Jan. 21; v. 258; p. 545.
- Weft-replenishing mechanism. E. H. Ryon. No. 1,307,024; June 17; v. 263; p. 400.
- Weigher. E. Wiedinger. No. 1,300,313; Apr. 15; v. 261; p. 436.
- Weighing and carton-filling device. J. U. Manischewitz. No. 1,306,187; June 10; v. 263; p. 210.
- Weighing and marking device. B. Gordon, Jr. No. 1,315,769; Sept. 9; v. 266; p. 244.
- Weighing and recording device. H. H. Jessen. No. 1,305,546; June 3; v. 263; p. 60.
- Weighing apparatus. J. W. Bryce. No. 1,313,062; Aug. 12; v. 265; p. 262.
- Weighing apparatus. F. B. Chambers. No. 1,296,920; Mar. 11; v. 260; p. 286.
- Weighing apparatus. D. S. Holt. No. 1,317,135; Sept. 23; v. 266; p. 564.
- Weighing apparatus. T. L. Nyblom. No. 1,312,132; Aug. 5; v. 265; p. 52.
- Weighing apparatus, Liquid. J. W. Gamble. No. 1,312,902; Aug. 12; v. 265; p. 230.
- Weighing apparatus, Liquid. W. Leinert. No. 1,319,478; Oct. 21; v. 267; p. 434.
- Weighing-machine. P. Edtbauer. No. 1,306,052; June 10; v. 263; p. 185.
- Weighing-machine. W. H. Ellis. No. 1,321,726; Nov. 11; v. 268; p. 322.
- Weighing-machine feeding apparatus. H. D. Bowman. No. 1,295,959; Mar. 4; v. 260; p. 32.
- Weighing-machine-releasing device, Electrically-operated. C. H. Allen. No. 1,291,707; Jan. 21; v. 258; p. 457.
- Weighing-scale, Automatic. J. L. Theobald. No. 1,313,614; Aug. 19; v. 265; p. 383.
- Weight Cord. A. H. Weiss. No. 1,309,670; July 15; v. 264; p. 373.
- Weight Garment. G. S. Noble. No. 1,319,170; Oct. 21; v. 267; p. 376.
- Weight-indicator. L. B. Moulton. No. 1,294,298; Feb. 11; v. 259; p. 339.
- Weight hoisting and releasing mechanism. M. F. Healy. No. 1,320,688; Nov. 4; v. 268; p. 61.
- Weight-motor. L. H. Artz. No. 1,311,203; July 29; v. 264; p. 718.
- Weight placing and proving attachment. G. G. and E. L. Voland. No. 1,301,765; Apr. 22; v. 261; p. 769.
- Weight-recording apparatus. E. E. Wolf. No. 1,295,406; Feb. 25; v. 259; p. 654.
- Weight, Sash. M. E. Mather. No. 1,310,165; July 15; v. 264; p. 463.
- Weight, Training. L. T. Foreman. No. 1,291,465; Jan. 14; v. 258; p. 370.
- Weir. O. Sommer. No. 1,322,146; Nov. 18; v. 268; p. 451.
- Welded joints, Process and apparatus for producing electrically. R. S. Smith. No. 1,323,556; Dec. 2; v. 269; p. 63.
- Welded work, Truing and removing extruded burs from electrically. T. E. Murray. No. 1,320,893; Nov. 4; v. 268; p. 101.
- Welder, Electric. A. S. Hatch. No. 1,291,501; Jan. 14; v. 258; p. 378.
- Welder, Electric. C. H. Thornblade. No. 1,292,921; Jan. 28; v. 258; p. 772.
- Welders and the like, Shield for. S. H. Polasky. No. 1,313,908; Aug. 26; v. 265; p. 472.
- Welder's tool. R. O. Williams. No. 1,301,347; Apr. 22; v. 261; p. 690.
- Welding. J. Harris. No. 1,303,892; May 20; v. 262; p. 329.
- Welding. H. Mueller. No. 1,323,485; Dec. 2; v. 269; p. 49.
- Welding. C. Pfanstichl. No. 1,292,037; Jan. 21; v. 258; p. 540.
- Welding and apparatus for use therein, Electric. J. G. Kjellgren and G. H. Stephenson. No. 1,309,947; July 15; v. 264; p. 424.
- Welding and cutting equipment, Carrying-case for. H. Cave. No. 1,309,273; July 8; v. 264; p. 262.
- Welding and product thereof, Electric. T. E. Murray, Jr. No. 1,293,867; Feb. 11; v. 259; p. 239.
- Welding apparatus. W. G. Abbott, Jr. No. 1,311,789; July 29; v. 264; p. 827.
- Welding apparatus. W. L. Merrill. No. 1,310,127; July 15; v. 264; p. 456.
- Welding apparatus. S. Rumolino. No. 1,323,913; Dec. 2; v. 269; p. 130.
- Welding apparatus and the like, Controller for arc. L. P. Coulter. No. 1,291,422; Jan. 14; v. 258; p. 360.
- Welding apparatus, Electric. C. A. Cadwell. No. 1,290,903; Jan. 14; v. 258; p. 239.
- Welding apparatus, Electric. J. H. Gravell. No. 1,300,603; Apr. 15; v. 261; p. 497.
- Welding apparatus, Electric. J. H. Gravell. No. 1,308,778; July 8; v. 264; p. 169.
- Welding apparatus, Electric. W. H. Isherwood. No. 1,318,563; Oct. 14; v. 267; p. 234.
- Welding apparatus, Electric. T. E. Jr., and J. B. Murray. No. 1,320,895; Nov. 4; v. 268; p. 101.
- Welding apparatus, Electric seam. L. G. Palmer. No. 1,304,703; May 27; v. 262; p. 521.
- Welding, Apparatus for electric. W. B. Cleveland. No. 1,290,089; Jan. 7; v. 258; p. 18.
- Welding, Apparatus for electrical. T. E. Jr., and J. B. Murray. No. 1,320,897; Nov. 4; v. 268; p. 102.
- Welding, Arc. O. A. Kenyon. No. 1,326,743; Dec. 30; v. 269; p. 821.
- Welding arcs, Automatic control of. O. H. Eschholz. No. 1,320,127; Oct. 28; v. 267; p. 578.
- Welding boiler-tubes to flue-sheets thereof, Apparatus for electrically. F. T. Huston. No. 1,318,495; Oct. 14; v. 267; p. 221.
- Welding cast-iron. D. H. Wilson. No. 1,306,295; June 10; v. 263; p. 233.
- Welding-clamp. J. W. Heltzel. No. 1,309,067; July 8; v. 264; p. 224.
- Welding-controller. E. B. H. Tower, Jr., and R. H. Van Nest. No. 1,298,603; Mar. 25; v. 260; p. 701.
- Welding device. M. B. Lloyd. No. 1,293,486; Feb. 4; v. 259; p. 119.
- Welding device, Electric seam. W. A. Patscheider. No. 1,304,594; May 27; v. 262; p. 501.
- Welding, Electric. F. L. Dyer. No. 1,296,780; Mar. 11; v. 260; p. 253.
- Welding, Electric. J. H. Gravell. No. 1,312,844; Aug. 12; v. 265; p. 219.
- Welding, Electric. O. A. Kenyon. No. 1,292,800; Jan. 28; v. 258; p. 744.
- Welding, Electric. O. A. Kenyon. No. 1,303,681; May 13; v. 262; p. 253.
- Welding, Electric. C. H. Kicklighter. No. 1,310,418; July 22; v. 264; p. 541.
- Welding, Electric. R. C. Pierce and N. Macneale. No. 1,315,239; Sept. 9; v. 266; p. 150.
- Welding, Electric. C. F. Meilink. No. 1,312,039; Aug. 5; v. 265; p. 35.
- Welding, Electric. T. E. Murray. No. 1,291,601; Jan. 14; v. 258; p. 401.
- Welding, Electric. T. E. Murray, Jr. No. 1,302,413; Apr. 29; v. 261; p. 923.
- Welding, Electric. P. O. Noble. No. 1,310,131; July 15; v. 264; p. 457.
- Welding, Electric. M. H. Roberts and C. C. Van Nuys. No. 1,309,696; July 15; v. 264; p. 378.
- Welding, Electric. R. Sarazin. No. 1,302,440; Apr. 29; v. 261; p. 929.
- Welding, Electric-arc. A. Smith. No. 1,298,590; Mar. 25; v. 260; p. 698.
- Welding, Electrical. T. E. Jr., and J. B. Murray. No. 1,316,383; Sept. 16; v. 266; p. 374.
- Welding, Electrical. T. E. Jr., and J. B. Murray. No. 1,316,384; Sept. 16; v. 266; p. 374.
- Welding, Electrical. T. E. Jr., and J. B. Murray. No. 1,316,385; Sept. 16; v. 266; p. 374.
- Welding-electrode. B. W. Bowers. No. 1,296,358; Mar. 4; v. 260; p. 123.
- Welding-electrode. T. E. Murray. No. 1,295,570; Feb. 25; v. 259; p. 693.
- Welding-electrode. T. E. Jr., and J. B. Murray. No. 1,303,575; May 13; v. 262; p. 268.

- Welding-electrode. J. M. Weed. No. 1,300,068; Apr. 8; v. 261; p. 356.
- Welding-electrode. J. M. Weed. No. 1,304,227; May 20; v. 262; p. 390.
- Welding-electrode, Arc-. C. V. Elliott. No. 1,294,250; Feb. 11; v. 259; p. 329.
- Welding-electrode, Arc-. R. S. Smith. No. 1,301,331; Apr. 22; v. 261; p. 687.
- Welding, Electrode for electric-arc. E. Languepin. No. 1,314,273; Aug. 26; v. 265; p. 542.
- Welding-electrode-holder, Arc-. J. E. Pierce. No. 1,293,538; Feb. 4; v. 259; p. 131.
- Welding-flame. L. P. Sébille. No. 1,325,116; Dec. 16; v. 269; p. 463.
- Welding-machine. A. E. Buchenberg. No. 1,322,479; Nov. 18; v. 268; p. 514.
- Welding-machine. H. J. Lewis. No. 1,301,462; Apr. 22; v. 261; p. 711.
- Welding-machine. R. E. Wagner. No. 1,305,039; May 27; v. 262; p. 584.
- Welding machine and process, Electric-. C. M. Agnew. No. 1,315,939; Sept. 16; v. 266; p. 291.
- Welding-machine, Electric. G. J. Armstrong. No. 1,310,554; July 22; v. 264; p. 565.
- Welding-machine, Electric. G. J. Armstrong. No. 1,310,555; July 22; v. 264; p. 565.
- Welding-machine, Electric. G. Giulio. No. 1,306,959; June 17; v. 263; p. 387.
- Welding-machine, Electric. J. H. Gravell. No. 1,312,845; Aug. 12; v. 265; p. 219.
- Welding-machine, Electric. H. S. Holmes. No. 1,290,996; Jan. 14; v. 258; p. 261.
- Welding-machine, Electric. T. E. Murray and H. R. Woodrow. No. 1,295,787; Feb. 25; v. 259; p. 742.
- Welding-machine, Electric. G. H. Schkommodau. No. 1,290,367; Jan. 7; v. 258; p. 85.
- Welding machine, Electric-. A. W. Southall. No. 1,315,876; Sept. 9; v. 266; p. 265.
- Welding-machine for forming electrical contacts, Electric. W. F. Hosford. No. 1,292,892; Jan. 28; v. 258; p. 766.
- Welding machine, Multiple spot-. O. H. Jobski. No. 1,303,906; May 20; v. 262; p. 332.
- Welding machine, Seam-. A. D. Elliott. No. 1,310,610; July 22; v. 264; p. 576.
- Welding machine, Tube-. F. Kritz. No. 1,296,970; Mar. 11; v. 260; p. 297.
- Welding machines, Automatic current-regulator for seam-. C. D. Ryder and B. B. Kersey. No. 1,292,888; Jan. 28; v. 258; p. 765.
- Welding-machines, Controlling electric. T. E., Jr., and J. B. Murray. No. 1,320,896; Nov. 4; v. 268; p. 102.
- Welding-machines, Electrode-locking device for electric. J. Ledwinka. No. 1,326,601; Dec. 30; v. 269; p. 794.
- Welding metal plates, Electric. C. H. Kicklighter. No. 1,310,419; July 22; v. 264; p. 541.
- Welding, Method of and apparatus for. C. A. Cadwell. No. 1,300,117; Apr. 8; v. 261; p. 367.
- Welding, Method of and apparatus for electric. C. A. Cadwell. No. 1,290,076; Jan. 7; v. 258; p. 15.
- Welding, Method of and apparatus for electric. H. S. Holmes. No. 1,290,997; Jan. 14; v. 258; p. 261.
- Welding plates. T. J. Shea. No. 1,311,422; July 29; v. 264; p. 759.
- Welding, Series arc-. O. A. Kenyon. No. 1,303,481; May 13; v. 262; p. 216.
- Welding, Spot-. W. R. Thomson. No. 1,305,503; June 3; v. 263; p. 51.
- Welding-stand. O. W. Brown. No. 1,313,061; Aug. 12; v. 265; p. 262.
- Welding steel and other metals, Method and compound for. H. L. Siever. No. 1,315,611; Sept. 9; v. 266; p. 217.
- Welding system, Arc-. L. P. Coulter. No. 1,290,915; Jan. 14; v. 258; p. 243.
- Welding system, Electric. D. H. Wilson. No. 1,306,294; June 10; v. 263; p. 232.
- Welding system, Electric. E. S. Zuck. No. 1,296,350; Mar. 4; v. 260; p. 121.
- Welding system, Electric-arc. A. M. Candy. No. 1,320,123; Oct. 28; v. 267; p. 578.
- Welding system, Electric-arc. J. Kjekstad. No. 1,292,397; Jan. 21; v. 258; p. 626.
- Welding system, Electric-arc. F. Thornton, Jr., and E. S. Zuck. No. 1,296,020; Mar. 4; v. 260; p. 46.
- Welding thin plates. J. H. Gravell. No. 1,308,781; July 8; v. 264; p. 170.
- Welding-tongs, Electric. H. F. Kuntzmann. No. 1,314,674; Sept. 2; v. 266; p. 38.
- Welding-tool. R. Baker. No. 1,303,230; May 13; v. 262; p. 172.
- Welding-tool. J. J. Campbell. No. 1,306,746; June 17; v. 263; p. 348.
- Welding-tool, Electric. G. A. Engstrom. No. 1,295,457; Feb. 25; v. 259; p. 665.
- Welding-tool, Electric. J. K. Baker and T. E. McGuire. No. 1,313,572; Aug. 19; v. 265; p. 375.
- Welding transformer, Electric-. A. F. Rietzel. No. 1,303,964; May 20; v. 262; p. 343.
- Welding two metals of unequal fusibility. C. Kohler. No. 1,296,815; Mar. 11; v. 260; p. 261.
- Welding, Wire-holder for electric. A. Schneider. No. 1,316,334; Sept. 16; v. 266; p. 365.
- Welding with electricity, Incandescent. F. G. Gale. No. 1,323,178; Nov. 25; v. 268; p. 697.
- Well apparatus. M. E. Layne. No. 1,299,741; Apr. 8; v. 261; p. 284.
- Well-boring apparatus. D. A. Carden. No. 1,317,350; Sept. 30; v. 266; p. 640.
- Well-boring apparatus. J. O. Headrick and J. M. Windfrey. No. 1,314,960; Sept. 2; v. 266; p. 89.
- Well-boring apparatus. A. G. Willard, W. W. Wilson, and C. E. Wilcox. No. 1,297,625; Mar. 18; v. 260; p. 466.
- Well-capping device. H. C. Thrift. No. 1,323,660; Dec. 2; v. 269; p. 81.
- Well-casing, Expandable. R. E. Leonard. No. 1,301,285; Apr. 22; v. 261; p. 677.
- Well-casings, Perforation-cleaner for. F. M. Nevins. No. 1,298,083; Mar. 25; v. 260; p. 589.
- Well-cleaning device. A. S. Jones. No. 1,317,192; Sept. 30; v. 266; p. 610.
- Well-cleaning device. A. S. Jones. No. 1,318,207; Oct. 7; v. 267; p. 105.
- Well-cover. W. B. McDonald. No. 1,312,556; Aug. 12; v. 265; p. 162.
- Well-drill attachment. A. J. Eshenbaugh. No. 1,305,703; June 3; v. 263; p. 89.
- Well drill, Deep-. J. C. Coontz. No. 1,301,912; Apr. 29; v. 261; p. 828.
- Well-drilling apparatus. S. J. Mathews. No. 1,300,989; Apr. 15; v. 261; p. 579.
- Well-drilling apparatus. C. W. Thorniley. No. 1,291,261; Jan. 14; v. 258; p. 321.
- Well-drilling appliance. J. F. Moody. No. 1,300,995; Apr. 15; v. 261; p. 580.
- Well-drilling appliance. J. F. Moody. No. 1,322,809; Nov. 25; v. 268; p. 627.
- Well-drilling machine. W. L. Dayton and J. M. Scott. No. 1,301,915; Apr. 29; v. 261; p. 829.
- Well-drilling tool. J. Maier. No. 1,297,708; Mar. 18; v. 260; p. 484.
- Well-elevator. E. C. Wilson. No. 1,314,996; Sept. 2; v. 266; p. 96.
- Well equipment. W. R. Greenlee. No. 1,312,442; Aug. 5; v. 265; p. 111.
- Well-packer. P. H. Mack. No. 1,303,091; May 6; v. 262; p. 116.
- Well packer, Oil-. S. T. Cameron and E. R. Inman. No. 1,318,352; Oct. 14; v. 267; p. 192.
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- Well-reamer. A. E. Harkness. No. 1,320,226; Oct. 28; v. 267; p. 596.
- Well-screen washer and perforator. A. L. Wilkerson. No. 1,298,131; Mar. 25; v. 260; p. 600.
- Well-sections, Device for recovering. H. Nelson. No. 1,290,642; Jan. 7; v. 258; p. 152.
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- Well-separators, Forming. O. A. Layne. No. 1,304,493; May 20; v. 262; p. 443.
- Well-sinking apparatus. M. T. Chapman. No. 1,322,540; Nov. 25; v. 268; p. 577.
- Well-strainer. M. B. Van Ness. No. 1,291,288; Jan. 14; v. 258; p. 328.
- Well-strainers, Combination set-collar for. A. Thomson. No. 1,323,205; Nov. 25; v. 268; p. 703.
- Well-tool. J. S. Taylor. No. 1,299,392; Apr. 1; v. 261; p. 176.
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- Wells, Apparatus for separating fluid in. M. E. Layne. No. 1,311,169; July 29; v. 264; p. 712.
- Wells, Device for cleaning. L. H. Sargent. No. 1,314,833; Sept. 2; v. 266; p. 67.
- Wells, Device for recovering tools from. A. B. Scott. No. 1,315,581; Sept. 9; v. 266; p. 212.
- Wells, Excluding extraneous fluids from. J. C. Swan. No. 1,317,462; Sept. 30; v. 266; p. 662.
- Wells, Footing. W. W. Kelley. No. 1,291,915; Jan. 21; v. 258; p. 509.
- Wells, Internal works of tubular. M. N. Latta. No. 1,309,738; July 15; v. 264; p. 385.
- Wells, Jarring-tool for drilling. D. R. Tripplehorn. No. 1,301,764; Apr. 22; v. 261; p. 769.
- Wells, Material for closing off water in oil-. B. R. Grunwald. No. 1,318,076; Oct. 7; v. 267; p. 79.
- Wells, Means for cutting off water from lower strata of drilled. N. S. Sibert. No. 1,326,141; Dec. 23; v. 269; p. 670.
- Wells, Method and apparatus for casing. C. C. Polysu. No. 1,313,013; Aug. 12; v. 265; p. 252.
- Wells, Plug foundation for. W. G. Haynes. No. 1,322,436; Nov. 18; v. 268; p. 506.
- Wells, Pumping-jack for oil-. B. Moore and G. O. Stansbury. No. 1,304,100; May 20; v. 262; p. 384.
- Wells, Rotary core-cutting drill for. J. L. Cameron. No. 1,301,541; Apr. 22; v. 261; p. 725.
- Welt and making. H. Lyon. No. 1,293,136; Feb. 4; v. 259; p. 38.
- Wells and the resultant product, Making. H. Lyon. No. 1,293,135; Feb. 4; v. 259; p. 38.
- Welt-beating machine. M. F. Brogan. No. 1,306,656; June 10; v. 263; p. 299.
- Welt-beating machine. J. B. Hadaway. No. 1,290,179; Jan. 7; v. 258; p. 40.



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- Wet-beating machine. J. A. Paquin. No. 1,298,780; Apr. 1; v. 261; p. 39.
- Wet grooving and beveling machine. A. Eppler. No. 1,309,567; July 8; v. 264; p. 317.
- Wet-grooving machine. W. B. Arnold and A. G. Frye. No. 1,318,340; Oct. 7; v. 267; p. 130.
- Wet-indenting machine. T. J. MacMurtry, Jr. No. 1,290,619; Jan. 7; v. 258; p. 146.
- Wet-machine. C. F. Eaton. No. 1,314,792; Sept. 2; v. 266; p. 59.
- Wet-slitting machine. W. B. Arnold and A. G. Frye. No. 1,318,341; Oct. 7; v. 267; p. 130.
- Wet-strip. J. N. Moulton. No. 1,308,804; July 8; v. 264; p. 174.
- Wetting Machine for preparing. A. R. Morrill. No. 1,309,583; July 8; v. 264; p. 320.
- Wharf. W. Hagenbuch. No. 1,300,606; Apr. 15; v. 261; p. 497.
- Wheat-scouring machine. M. Schiebendrein. No. 1,307,760; June 24; v. 263; p. 566.
- Wheel. *See*—
- Abrasive wheel.
  - Aeroplane-wheel.
  - Agricultural implement wheel.
  - Anticlog tractor-wheel.
  - Antifriction-wheel.
  - Antiskid vehicle-wheel.
  - Auto-wheel.
  - Automobile-wheel.
  - Automobile and railway wheel.
  - Automobile driving-wheel.
  - Automobile emergency-wheel.
  - Automobile or truck wheel.
  - Automobile steering-wheel.
  - Band-wheel.
  - Buffing or polishing wheel.
  - Car-wheel.
  - Caster-wheel.
  - Caterpillar-wheel.
  - Constring-wheel.
  - Collapsible wheel.
  - Convertible wheel.
  - Current-wheel.
  - Cushion-wheel.
  - Cushioned wheel.
  - Demountable wheel.
  - Detachable wheel.
  - Dipping-wheel.
  - Disk-wheel.
  - Driving-wheel.
  - Driving and steering wheel.
  - Dropper-wheel.
  - Elastic wheel.
  - Engine drive-wheel.
  - Flexible gear-wheel.
  - Fly-wheel.
  - Garden-rake gage-wheel.
  - Gear-wheel.
  - Hand-wheel.
  - Log-measuring wheel.
  - Metal wheel.
  - Metallic wheel.
  - Mine-car wheel.
  - Motor-wheel.
  - Paddle-wheel.
  - Polishing-wheel.
  - Pressed-steel wheel.
  - Pressed-steel vehicle-wheel.
  - Presser-wheel.
  - Propeller-wheel.
  - Railway-engine wheel.
  - Resilient wheel.
  - Resilient vehicle-wheel.
  - Rubber-cushion wheel.
  - Sectional bull-wheel.
  - Semiwood wheel.
  - Separable wheel.
  - Sheet-metal wheel.
  - Shock-absorbing wheel.
  - Spring-wheel.
  - Spring traction-wheel.
  - Spurred wheel.
  - Steering-wheel.
  - Tire-wheel.
  - Toy printing-wheel.
  - Track-laying wheel.
  - Traction-wheel.
  - Tractor-wheel.
  - Tractor belt-wheel.
  - Transformable wheel.
  - Trolley-wheel.
  - Truck-wheel.
  - Turbine water-wheel.
  - Twin wire wheel.
  - Vehicle-wheel.
  - Vehicle spring-wheel.
  - Wagon-wheel.
  - Water-wheel.
  - Wind-wheel.
  - Wire wheel.
  - Wire-spoked wheel.
- Wheel. E. K. Baker. No. 1,320,999; Nov. 4; v. 268; p. 121.
- Wheel. B. Bayliss. No. 1,291,727; Jan. 21; v. 258; p. 462.
- Wheel. E. R. Beeman. No. 1,307,035; June 17; v. 263; p. 402.
- Wheel. A. W. Benjamin. No. 1,318,475; Oct. 14; v. 267; p. 217.
- Wheel. V. A. Boker. No. 1,317,908; Oct. 7; v. 267; p. 47.
- Wheel. C. Bontoft. No. 1,294,228; Feb. 11; v. 259; p. 324.
- Wheel. H. J. Breeze. No. 1,314,462; Aug. 26; v. 265; p. 578.
- Wheel. G. G. Buckland. No. 1,315,178; Sept. 2; v. 266; p. 129.
- Wheel. W. H. Daily. No. 1,290,920; Jan. 14; v. 258; p. 244.
- Wheel. G. G. Elliott. No. 1,292,734; Jan. 28; v. 258; p. 729.
- Wheel. F. W. French. No. 1,310,069; July 15; v. 264; p. 445.
- Wheel. R. W. Gilpatric. No. 1,292,305; Jan. 21; v. 258; p. 605.
- Wheel. P. J. Hamill. No. 1,299,332; Apr. 1; v. 261; p. 163.
- Wheel. A. Hendricks. No. 1,322,693; Nov. 25; v. 268; p. 606.
- Wheel. R. Hoopes. No. 1,310,189; July 15; v. 264; p. 467.
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- Wheel. L. S. Lachman. No. 1,317,198; Sept. 30; v. 266; p. 611.
- Wheel. D. Levinson. No. 1,297,876; Mar. 18; v. 260; p. 520.
- Wheel. T. C. McGriff. No. 1,305,730; June 3; v. 263; p. 94.
- Wheel. H. W. Melling. No. 1,325,258; Dec. 16; v. 269; p. 490.
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- Wheel. L. H. Perlman. No. 1,292,639; Jan. 28; v. 258; p. 707.
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- Wheel. L. H. Perlman. No. 1,307,267; June 17; v. 263; p. 443.
- Wheel. L. H. Perlman. No. 1,307,268; June 17; v. 263; p. 443.
- Wheel. L. H. Perlman. No. 1,320,909; Nov. 4; v. 268; p. 104.
- Wheel. L. H. Perlman. No. 1,324,320; Dec. 9; v. 269; p. 251.
- Wheel. L. H. Perlman. No. 1,324,617; Dec. 9; v. 269; p. 309.
- Wheel. L. H. Perlman. No. 1,325,412; Dec. 16; v. 269; p. 518.
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- Wheel. W. E. Sherwood. No. 1,295,619; Feb. 25; v. 259; p. 704.
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- Wheel. W. B. Stout. No. 1,315,050; Sept. 2; v. 266; p. 106.
- Wheel. W. E. Waller and F. P. Stone. No. 1,317,246; Sept. 30; v. 266; p. 620.
- Wheel. G. Walther. No. 1,304,130; May 20; v. 262; p. 372.
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- Wheel-adjusting mechanism for agricultural implements. H. S. Dickinson. No. 1,316,696; Sept. 23; v. 266; p. 482.
- Wheel and axle, Adjustable. H. F. A. Kleinschmidt. No. 1,315,672; Sept. 9; v. 266; p. 227.
- Wheel and making same, Steering-. B. C. Fitch. No. 1,311,684; July 29; v. 264; p. 808.
- Wheel and rim, Combination. L. B. Harvey. No. 1,292,601; Jan. 28; v. 258; p. 698.
- Wheel and tire carrier. L. A. Bixby. No. 1,307,181; June 17; v. 263; p. 427.
- Wheel and tire, Cushion. M. I. Haulter. No. 1,299,722; Apr. 8; v. 261; p. 280.
- Wheel-antiskid. A. H. Harrington. No. 1,297,155; Mar. 11; v. 260; p. 338.
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- Wheel-bracket. R. A. Bates. No. 1,301,028; Apr. 15; v. 261; p. 588.
- Wheel-carrier. E. R. Draver. No. 1,311,267; July 29; v. 264; p. 730.
- Wheel-carrier. E. R. Draver. No. 1,320,382; Nov. 4; v. 268; p. 5.
- Wheel-carrier. E. R. Draver. No. 1,322,678; Nov. 25; v. 268; p. 603.
- Wheel-carrier. E. R. Draver. No. 1,322,680; Nov. 25; v. 268; p. 603.
- Wheel carrier and receptacle. E. R. Draver. No. 1,321,017; Nov. 4; v. 268; p. 124.
- Wheel centering and balancing device, Abrasive-. J. C. Spence. No. 1,305,978; June 3; v. 263; p. 142.
- Wheel-chair. G. H. and A. O. Maulden. No. 1,304,790; May 27; v. 262; p. 537.
- Wheel-chock. V. N. Perry. No. 1,326,688; Dec. 30; v. 269; p. 810.
- Wheel-coaster and sleigh, Combined. A. O. Jensen. No. 1,298,729; Apr. 1; v. 261; p. 25.

- Wheel construction and mounting. W. M. Cowell. (Re-issue.) No. 1,465,9; June 10; v. 263; p. 303.
- Wheel construction, Convertible dual. A. L. Putnam. No. 1,297,243; Mar. 11; v. 260; p. 356.
- Wheel construction, Demountable. F. W. French. No. 1,297,673; Mar. 18; v. 260; p. 476.
- Wheel demountable rim. J. L. Hecht. No. 1,299,463; Apr. 8; v. 261; p. 221.
- Wheel-dressing means for grinding-machines. E. B. Gardner. No. 1,320,752; Nov. 4; v. 268; p. 74.
- Wheel-drive. S. I. Pekere and S. G. Baits. No. 1,319,519; Oct. 21; v. 267; p. 441.
- Wheel drive mechanism, Four. L. B. Littlejohn. No. 1,295,335; Feb. 25; v. 259; p. 637.
- Wheel-drive ratchet-release, Front. G. W. Smith. No. 1,294,721; Feb. 18; v. 259; p. 473.
- Wheel equipment, Resilient. J. S. Williams. No. 1,290,453; Jan. 7; v. 258; p. 106.
- Wheel equipment, Resilient. J. S. Williams. No. 1,318,711; Oct. 14; v. 267; p. 261.
- Wheel-finishing machine. M. Davis. No. 1,304,547; May 27; v. 262; p. 492.
- Wheel-flange-lubricating device. A. C. McClure. No. 1,317,449; Sept. 30; v. 266; p. 659.
- Wheel-guard. A. W. Cantlon. No. 1,295,692; Feb. 25; v. 259; p. 721.
- Wheel-guard. A. W. Cantlon. No. 1,325,690; Dec. 23; v. 269; p. 587.
- Wheel-guard, Automatic-drop. A. J. Berg. No. 1,317,678; Oct. 7; v. 267; p. 4.
- Wheel gudgeon, Bull and calf. W. M. Keck. No. 1,315,669; Sept. 9; v. 266; p. 226.
- Wheel-holder. H. J. Sauers. No. 1,319,536; Oct. 21; v. 267; p. 444.
- Wheel-holding apparatus. C. C. Feast. No. 1,326,188; Dec. 30; v. 269; p. 716.
- Wheel-hub. J. Meekin. No. 1,322,039; Nov. 18; v. 268; p. 431.
- Wheel-lock. L. Klinker. No. 1,311,404; July 29; v. 264; p. 756.
- Wheel lock for agricultural implements, Caster. H. S. Dickinson. No. 1,302,016; Apr. 29; v. 261; p. 848.
- Wheel lock, Steering. T. D. Stanley. No. 1,304,516; May 20; v. 262; p. 448.
- Wheel-locking device. Z. P. Leger. No. 1,302,681; May 6; v. 262; p. 38.
- Wheel non-skidding device, Vehicle. D. Clerico. No. 1,319,512; Oct. 21; v. 267; p. 440.
- Wheel of vehicles, driving-pulleys, and the like. D. T. Stagg. No. 1,311,537; July 29; v. 264; p. 781.
- Wheel, Pneumatic. S. B. Zartman. No. 1,302,265; Apr. 29; v. 261; p. 894.
- Wheel-puller. E. B. Cantrell and G. E. Miller. No. 1,310,154; July 15; v. 264; p. 461.
- Wheel-puller. D. L. Towler. No. 1,305,322; June 3; v. 263; p. 18.
- Wheel-removing tool. J. K. Gumper. No. 1,311,272; July 29; v. 264; p. 731.
- Wheel-rim. F. A. Frommann. No. 1,292,300; Jan. 21; v. 258; p. 603.
- Wheel-rim. S. C. Nelson. No. 1,299,378; Apr. 1; v. 261; p. 173.
- Wheel-rim. F. F. Taylor. No. 1,294,969; Feb. 18; v. 259; p. 530.
- Wheel-rim. J. H. Wagenhorst. No. 1,316,606; Sept. 23; v. 266; p. 465.
- Wheel-rim attachment. F. Hickman. No. 1,304,878; May 27; v. 262; p. 553.
- Wheel-rim attachment, Supplemental. C. G. Evans. No. 1,294,887; Feb. 18; v. 259; p. 513.
- Wheel-rim, Collapsible. O. H. Bartholomew. No. 1,316,758; Sept. 23; v. 266; p. 494.
- Wheel-rim, Collapsible. J. H. M. Michon. No. 1,314,415; Aug. 26; v. 265; p. 570.
- Wheel-rim, Collapsible. J. H. M. Michon. No. 1,314,416; Aug. 26; v. 265; p. 570.
- Wheel-rim, Demountable. E. K. Baker. No. 1,310,047; July 15; v. 264; p. 441.
- Wheel-rim, Demountable. E. K. Baker. No. 1,314,933; Sept. 2; v. 266; p. 84.
- Wheel-rim, Demountable. G. B. Filmer. No. 1,297,338; Mar. 18; v. 260; p. 406.
- Wheel-rim, Demountable. F. L. Maupin. No. 1,292,348; Jan. 21; v. 258; p. 615.
- Wheel-rim, Detachable. C. D. Paxson. (Reissue.) No. 1,463,4; Apr. 15; v. 261; p. 603.
- Wheel-rim, Divisible. J. C. Barker. No. 1,306,515; June 10; v. 263; p. 278.
- Wheel-rim, Expandable. J. H. M. Michon. (Reissue.) No. 1,471,2; Aug. 19; v. 265; p. 432.
- Wheel-rim, Expandable. J. H. M. Michon. No. 1,314,414; Aug. 26; v. 265; p. 569.
- Wheel-rim lug. J. E. Merwin. No. 1,296,419; Mar. 4; v. 260; p. 135.
- Wheel-rim implement. C. H. Lutgen. No. 1,318,394; Oct. 14; v. 267; p. 201.
- Wheel-rim, Removable. L. F. Jordan. No. 1,299,352; Apr. 1; v. 261; p. 167.
- Wheel-rim, Sectional. C. S. Johnston. (Reissue.) No. 1,472,3; Sept. 16; v. 266; p. 407.
- Wheel-rim, Supplemental. H. B. Foley. No. 1,293,746; Feb. 11; v. 259; p. 210.
- Wheel-rim-tread attachment. H. N. Edens. No. 1,311,683; July 29; v. 264; p. 808.
- Wheel rim, Vehicle. L. V. Annable. No. 1,309,751; July 15; v. 264; p. 388.
- Wheel rim, Vehicle. J. B. Atkins. No. 1,320,597; Nov. 4; v. 268; p. 45.
- Wheel rim, Vehicle. R. S. Bryant. No. 1,301,097; Apr. 22; v. 261; p. 639.
- Wheel rim, Vehicle. H. E. Butcher. No. 1,317,860; Oct. 7; v. 267; p. 38.
- Wheel rim, Vehicle. C. W. Gressle. No. 1,311,269; July 29; v. 264; p. 730.
- Wheel rim, Vehicle. J. F. Oberlin. No. 1,316,055; Sept. 16; v. 266; p. 312.
- Wheel rims, Tool for operating vehicle. R. W. Funk. No. 1,319,860; Oct. 28; v. 267; p. 529.
- Wheel-setting machine. F. Loufek. No. 1,296,198; Mar. 4; v. 260; p. 88.
- Wheel-shoe. N. J. Whitaker. No. 1,318,635; Oct. 14; v. 267; p. 247.
- Wheel, Spring. O. A. Eckre. No. 1,317,913; Oct. 7; v. 267; p. 48.
- Wheel, Spring. A. H. Parent. No. 1,302,840; May 6; v. 262; p. 69.
- Wheel, Spring. J. A. Thomas. No. 1,315,055; Sept. 2; v. 266; p. 107.
- Wheel steering mechanism. D. P. Kahle. No. 1,324,399; Dec. 9; v. 269; p. 267.
- Wheel-teeth, Cutter for helical. A. M. Midgley. No. 1,307,633; June 24; v. 263; p. 543.
- Wheel-tightening device. T. N. Gibson and A. O. Friday. No. 1,309,939; July 15; v. 264; p. 423.
- Wheel traction device. J. E. Leavitt. No. 1,293,814; Feb. 11; v. 259; p. 226.
- Wheel transmission, Cam. J. P. Johansson. No. 1,312,328; Aug. 5; v. 265; p. 88.
- Wheel transmission, Rear. L. Atwood. No. 1,322,392; Nov. 18; v. 268; p. 498.
- Wheel-tread. C. L. Bridges. No. 1,315,278; Sept. 9; v. 266; p. 157.
- Wheel-tread. L. M. Wheat. No. 1,308,153; July 1; v. 264; p. 27.
- Wheel-treads, Manufacturing. T. G. Dade. No. 1,303,859; May 20; v. 262; p. 324.
- Wheel-vehicle. J. W. Gelling. No. 1,308,409; July 1; v. 264; p. 73.
- Wheel, Wire. C. S. Ash. No. 1,314,381; Aug. 26; v. 265; p. 563.
- Wheel with tire-carrying flange. J. H. Wagenhorst. No. 1,316,605; Sept. 23; v. 266; p. 465.
- Wheels, Air-valve attachment for disk. F. Bernardi. No. 1,313,979; Aug. 26; v. 265; p. 486.
- Wheels and disks, Manufacture of rolled. T. R. Knowles. No. 1,306,262; June 10; v. 263; p. 227.
- Wheels and the like, Demountable rim for wire. R. W. Ashley and F. Oberkirch. No. 1,305,683; June 3; v. 263; p. 86.
- Wheels, Antiskid-chain for vehicle. W. Berndt. No. 1,316,873; Sept. 23; v. 266; p. 514.
- Wheels, Antiskid device for vehicle. F. W. Weber. No. 1,301,988; Apr. 29; v. 261; p. 843.
- Wheels, Antislip device for vehicle. C. W. Hodges. No. 1,325,245; Dec. 16; v. 269; p. 488.
- Wheels, Cap-nut for vehicle. C. S. Ash. No. 1,319,683; Oct. 28; v. 267; p. 495.
- Wheels, Clamp for attaching auxiliary rims to. A. Goodnight. No. 1,322,301; Nov. 18; v. 268; p. 480.
- Wheels, Cleat for traction. W. G. Henkle. No. 1,315,723; Sept. 9; v. 266; p. 236.
- Wheels, Closure-holding means for antifriction. F. Chevalier. No. 1,301,386; Apr. 22; v. 261; p. 697.
- Wheels, Combined non-skid and traction device for dual-tired. M. H. Cleaver. No. 1,324,495; Dec. 9; v. 269; p. 285.
- Wheels, Construction of solid. L. Rouanet. No. 1,303,501; May 13; v. 262; p. 220.
- Wheels, Counterbalance for locomotive driving. K. Rush-ton. No. 1,310,136; July 15; v. 264; p. 458.
- Wheels, Demountable rim for. C. De C. and G. A. Moll. No. 1,310,364; July 15; v. 264; p. 498.
- Wheels, Demountable rim for vehicle. S. R. McKay. No. 1,306,828; June 17; v. 263; p. 363.
- Wheels, Demountable-rim-securing device for vehicle. W. N. Booth. No. 1,299,903; Apr. 8; v. 261; p. 321.
- Wheels, Drive connection for dirigible vehicle. E. E. Dahlmon. No. 1,307,961; June 24; v. 263; p. 603.
- Wheels, Driving-gear for traction. G. C. Andrews. No. 1,311,943; Aug. 5; v. 265; p. 17.
- Wheels, Fastening for detachable. J. L. Edwards. No. 1,308,488; July 1; v. 264; p. 87.
- Wheels, Felly and tread construction for. W. G. Chipley. No. 1,315,092; Sept. 2; v. 266; p. 113.
- Wheels, Felly and tread construction for. W. G. Chipley. No. 1,321,719; Nov. 11; v. 268; p. 321.
- Wheels for all classes of automobiles or towed vehicles, System of elastic. J. de Acuña. No. 1,315,012; Sept. 2; v. 266; p. 99.
- Wheels, Gripping attachment for automobile. W. Creek. No. 1,309,020; July 8; v. 264; p. 215.
- Wheels, Ground-engaging surface of traction. O. W. Johnson. No. 1,311,972; Aug. 5; v. 265; p. 22.



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- Wheels, Heating device for vehicle steering. E. F. Hoban. No. 1,304,044; May 20; v. 262; p. 355.
- Wheels, Hub-cap for quick-detachable. G. E. Molyneux. No. 1,324,513; Dec. 9; v. 269; p. 289.
- Wheels, Hydraulic press for turbine. G. V. Sullivan. No. 1,304,664; June 24; v. 263; p. 567.
- Wheels, Journal for car-. J. E. Downer. No. 1,309,467; July 8; v. 264; p. 297.
- Wheels, Locking device for demountable. W. L. Ringling and G. Greenlee. No. 1,317,393; Sept. 30; v. 266; p. 648.
- Wheels, Locking device for steering-. H. C. Miller. No. 1,303,354; May 13; v. 262; p. 133.
- Wheels, Machine for assembling spoked. W. N. Booth. No. 1,295,683; Feb. 25; v. 259; p. 718.
- Wheels, Machine for cutting double helical teeth in gear-. W. E. Sykes. No. 1,323,120; Nov. 25; v. 268; p. 686.
- Wheels, Making tension-. W. J. P. Moore. No. 1,310,246; July 15; v. 264; p. 478.
- Wheels, Making wire. M. Lachman. No. 1,324,055; Dec. 9; v. 269; p. 201.
- Wheels, Manufacturing grinding-. S. A. Waugh. No. 1,318,630; Oct. 14; v. 267; p. 246.
- Wheels, Non-skid attachment for. J. Gajan. No. 1,308,705; July 1; v. 264; p. 128.
- Wheels, Non-skidding attachment for vehicle-. G. A. Lunz. No. 1,320,401; Nov. 4; v. 268; p. 8.
- Wheels, Operating mechanism for collapsible rims for. E. A. Jones. No. 1,323,326; Dec. 16; v. 269; p. 503.
- Wheels, Producing agricultural implement. G. E. Karl. J. F. Koleczynski, and C. K. Woodin. No. 1,325,723; Dec. 23; v. 269; p. 593.
- Wheels, Rim for vehicle-. R. S. Bryant. No. 1,313,981; Aug. 26; v. 265; p. 486.
- Wheels, Rim for vehicle-. R. S. Bryant. No. 1,322,529; Nov. 25; v. 268; p. 575.
- Wheels, Road-gripping device for tractor-. D. S. Stewart. No. 1,323,654; Dec. 2; v. 269; p. 81.
- Wheels, Rolling-tooth for worm. W. O. Pfahler. No. 1,297,238; Mar. 11; v. 260; p. 355.
- Wheels, Self-cleaning grouser for traction-. H. Lobel. No. 1,319,231; Oct. 21; v. 267; p. 386.
- Wheels, Self-cleaning grouser for tractor-. S. T. Allen. No. 1,309,006; July 8; v. 264; p. 212.
- Wheels, Traction attachment for vehicle driving-. F. Rightmire. No. 1,301,078; Apr. 15; v. 261; p. 601.
- Wheels, Traction-ring for pneumatic, &c., cushion tired. G. C. Lambert. No. 1,323,193; Nov. 25; v. 268; p. 700.
- Wheels, Wheel-carrier for demountable. W. F. Wahrenberger. No. 1,297,942; Mar. 18; v. 260; p. 534.
- Wheels, Winding-drum for motor-vehicle. O. Rousseau. No. 1,325,658; Dec. 23; v. 269; p. 582.
- Wheelbarrow. R. B. Cummins. No. 1,325,557; Dec. 23; v. 269; p. 562.
- Wheelbarrow. C. B. Johnson. No. 1,312,990; Aug. 12; v. 265; p. 248.
- Wheelbarrow. H. W. Montgomery. No. 1,300,186; Apr. 8; v. 261; p. 382.
- Wheelbarrow. F. D. Vessey. No. 1,298,126; Mar. 25; v. 260; p. 599.
- Wheelbarrow, Self-dumping. W. D. Bludworth. No. 1,292,689; Jan. 28; v. 258; p. 719.
- Wheeled plow. A. C. Lindgren. No. 1,312,188; Aug. 5; v. 265; p. 63.
- Whetstone-box. K. Carlson. No. 1,294,616; Feb. 18; v. 259; p. 449.
- Whiffletree. E. D. Townsend. No. 1,313,430; Aug. 19; v. 265; p. 348.
- Whiffletree-connector. J. Krogman. No. 1,324,556; Dec. 9; v. 269; p. 297.
- Whiffletree-iron. W. J. Cass. No. 1,307,239; June 17; v. 263; p. 438.
- Whirligig. J. McKenna. No. 1,321,836; Nov. 18; v. 268; p. 394.
- Whistle. H. G. Balthasar. No. 1,324,636; Dec. 9; v. 269; p. 312.
- Whistle. W. A. Heyer. No. 1,315,019; Sept. 2; v. 266; p. 100.
- Whistle. E. Michaud. No. 1,324,609; Dec. 9; v. 269; p. 308.
- Whistle. E. G. Raff. No. 1,309,303; July 8; v. 264; p. 267.
- Whistle diaphragm, Steam-. J. Kropacz. No. 1,311,355; July 29; v. 264; p. 747.
- Whistle, Steam-. D. Brews. No. 1,313,251; Aug. 19; v. 265; p. 315.
- White leather-board and making. A. L. Clapp. No. 1,302,513; May 6; v. 262; p. 7.
- Wick-extractor. I. B. Little. No. 1,296,413; Mar. 4; v. 260; p. 134.
- Wick-holder. G. A. Halivèges. No. 1,312,536; Aug. 12; v. 265; p. 158.
- Wick-holder. F. A. McGuire. No. 1,299,977; Apr. 8; v. 261; p. 336.
- Wiggler. L. Lowenstein. No. 1,300,428; Apr. 15; v. 261; p. 460.
- Winch. G. T. Macfarlane. No. 1,323,299; Dec. 2; v. 269; p. 14.
- Winch. G. T. Macfarlane. No. 1,323,550; Dec. 2; v. 269; p. 12.
- Winch attachment. E. E. Bush. No. 1,301,224; Apr. 22; v. 261; p. 665.
- Winch, Single-drum. C. H. Taylor. No. 1,316,927; Sept. 23; v. 266; p. 524.
- Wind and water motor. F. W. Pendergast. No. 1,306,311; June 10; v. 263; p. 235.
- Wind instruments, Mute for. W. C. Kidder. No. 1,307,259; June 17; v. 263; p. 441.
- Wind-motor. G. O. Blair. No. 1,297,066; Mar. 11; v. 260; p. 319.
- Wind-motor. J. H. Connolly. No. 1,294,877; Feb. 18; v. 259; p. 510.
- Wind-motor. J. G. Gracey. No. 1,319,766; Oct. 28; v. 267; p. 511.
- Wind or air-currents, Instrument for indicating the velocity of the. F. H. Clift. No. 1,310,648; July 22; v. 264; p. 583.
- Wind-shield. P. A. Boedtcher and S. I. Schwartz. No. 1,295,102; Feb. 25; v. 259; p. 584.
- Wind-shield. J. Chidley. No. 1,315,760; Sept. 9; v. 266; p. 243.
- Wind-shield. E. G. Crossley. No. 1,294,241; Feb. 11; v. 259; p. 327.
- Wind-shield. E. P. Hovey. No. 1,298,719; Apr. 1; v. 261; p. 23.
- Wind-shield. B. R. Jackson. No. 1,292,610; Jan. 28; v. 258; p. 700.
- Wind-shield. F. Richard. No. 1,319,902; Oct. 28; v. 267; p. 537.
- Wind-shield. A. S. Weakley. No. 1,315,691; Sept. 9; v. 266; p. 230.
- Wind-shield and top support. M. A. Frine. No. 1,307,627; June 24; v. 263; p. 542.
- Wind-shield and wiper construction. L. C. Hill. No. 1,325,017; Dec. 16; v. 269; p. 444.
- Wind-shield cleaner. D. M. Cryder. No. 1,300,349; Apr. 15; v. 261; p. 443.
- Wind-shield cleaner. C. W. Groot. No. 1,293,759; Feb. 11; v. 259; p. 213.
- Wind-shield cleaner. S. C. Wolfe. No. 1,290,464; Jan. 7; v. 258; p. 109.
- Wind-shield-cleaning device. P. Bimeler and E. T. Dieringer. No. 1,313,576; Aug. 19; v. 265; p. 376.
- Wind-shield construction. R. W. Collins. No. 1,295,697; Feb. 25; v. 259; p. 722.
- Wind-shield construction. F. R. Fageol. No. 1,294,642; Feb. 18; v. 259; p. 456.
- Wind-shield construction. H. Neuman. No. 1,302,953; May 6; v. 262; p. 90.
- Wind-shield construction. F. E. Watts. No. 1,311,582; July 29; v. 264; p. 789.
- Wind-shield holder. F. Meyers. No. 1,305,919; June 3; v. 263; p. 130.
- Wind-shield hood. A. J. Finnegan. No. 1,301,115; Apr. 22; v. 261; p. 642.
- Wind-shield joint. C. E. Jeffers. No. 1,291,533; Jan. 14; v. 258; p. 386.
- Wind-shield support. J. H. Albrecht. No. 1,312,508; Aug. 12; v. 265; p. 153.
- Wind-shield wiper. G. I. Stadeker. No. 1,326,145; Dec. 23; v. 269; p. 671.
- Wind-shield wiper and glare-protector. S. P. Johnson. No. 1,322,115; Nov. 18; v. 268; p. 444.
- Wind-shields, Attachment for. H. Goldsmith and J. T. Funda. No. 1,307,491; June 24; v. 263; p. 518.
- Wind-shields, Clear-vision and glasscope attachment for. M. Hamburger. No. 1,304,766; May 27; v. 262; p. 533.
- Wind-shields, Clear-vision and glasscope attachment for. M. Hamburger. No. 1,326,448; Dec. 30; v. 269; p. 765.
- Wind-shields, Device for cleaning. C. B. O'Neill. No. 1,325,903; Dec. 23; v. 269; p. 627.
- Wind-wheel or wind-driven prime mover. H. E. Siagel. No. 1,300,499; Apr. 15; v. 261; p. 476.
- Wind-wheel, Ornamental. P. F. Denning. No. 1,310,234; July 15; v. 264; p. 475.
- Windmill. A. E. Brown. No. 1,321,415; Nov. 11; v. 268; p. 264.
- Windmill. W. C. Brownell. No. 1,297,084; Mar. 11; v. 260; p. 322.
- Windmill. T. M. Cameron. No. 1,315,594; Sept. 9; v. 266; p. 214.
- Windmill. C. E. Flinchbaugh. No. 1,305,789; June 3; v. 263; p. 106.
- Windmill. A. F. George. No. 1,326,335; Dec. 30; v. 269; p. 743.
- Windmill. J. P. Muller. No. 1,298,247; Mar. 25; v. 260; p. 625.
- Windmill. V. L. Ochoa. No. 1,319,174; Oct. 21; v. 267; p. 376.
- Windmill. G. Wöhr. No. 1,314,232; Aug. 26; v. 265; p. 534.
- Windmill and air-compressing mechanism. Combined. J. D. Ebert. No. 1,299,151; Apr. 1; v. 261; p. 121.
- Windmill attachment. R. A. Bertrand. No. 1,325,616; Dec. 23; v. 269; p. 673.
- Windmill control. L. Jensen. No. 1,319,222; Oct. 21; v. 267; p. 385.
- Windmill-pipe attachment. F. W. Boerner. No. 1,326,435; Dec. 30; v. 269; p. 762.
- Windmill-power-transmitting attachment. P. A. Records. No. 1,299,028; Apr. 1; v. 261; p. 95.
- Windmills, Transmission mechanism for. G. N. Renne. No. 1,305,933; June 3; v. 263; p. 133.

- Winder, H. D. Colman. No. 1,293,042; Feb. 4; v. 259; p. 16.
- Winder, H. D. Colman. No. 1,311,498; July 29; v. 264; p. 774.
- Winder, Lace and ribbon. I. W. Smith. No. 1,323,652; Dec. 2; v. 269; p. 80.
- Wiuder, Yarn-. J. Magnusen. No. 1,294,291; Feb. 11; v. 259; p. 338.
- Winding and measuring machine. G. W. Weiss. No. 1,306,090; June 10; v. 263; p. 192.
- Winding and measuring mechanism, Fabric. J. Overbake. No. 1,305,740; June 3; v. 263; p. 96.
- Winding and rewinding mechanism. L. E. Mackey and F. W. Ormiston. No. 1,309,256; July 8; v. 264; p. 258.
- Winding device. W. Recke. No. 1,316,109; Sept. 16; v. 266; p. 322.
- Winding-engine. T. S. Miller. No. 1,313,719; Aug. 19; v. 265; p. 403.
- Winding-machine. J. C. Anderson. No. 1,302,121; Apr. 29; v. 261; p. 867.
- Winding-machine. G. W. Foster. No. 1,309,404; July 8; v. 264; p. 286.
- Winding-machine. A. B., F. L. and H. A. Ireland. No. 1,318,672; Oct. 14; v. 267; p. 254.
- Winding-machine. E. F. Parks. No. 1,326,088; Dec. 23; v. 269; p. 661.
- Winding-machine. J. W. Robbins. No. 1,307,376; June 24; v. 263; p. 497.
- Winding-machine. M. B. White. No. 1,290,447; Jan. 7; v. 258; p. 104.
- Winding-machine swift. W. C. Keyworth. No. 1,321,642; Nov. 11; v. 268; p. 306.
- Winding-machines, Control device for. J. W. West. No. 1,317,057; Sept. 23; v. 266; p. 548.
- Winding-machines, Spindle or holder for cones for. H. Holt and A. Seceley. No. 1,306,256; June 10; v. 263; p. 226.
- Winding-machines, Yarn support and guide for. A. E. Rhoades. No. 1,307,700; June 24; v. 263; p. 555.
- Winding-machines, Yarn tension for. A. E. Rhoades. No. 1,307,701; June 24; v. 263; p. 555.
- Winding mechanism. S. C. Burlingame. No. 1,301,223; Apr. 22; v. 261; p. 665.
- Winding mechanism. C. T. Henderson. No. 1,304,565; May 27; v. 262; p. 495.
- Winding mechanism. J. F. O'Connor. No. 1,300,473; Apr. 15; v. 261; p. 469.
- Winding mechanism. J. F. O'Connor. No. 1,300,477; Apr. 15; v. 261; p. 471.
- Winding mechanism for talking-machines. L. A. Freedman. No. 1,312,624; Aug. 12; v. 265; p. 177.
- Winding or spooling machine. F. W. Easton. No. 1,322,769; Nov. 25; v. 268; p. 620.
- Winding-reel. J. Obermiller. No. 1,292,361; Jan. 21; v. 258; p. 618.
- Winding-roller. R. T. Axe. No. 1,322,747; Nov. 25; v. 268; p. 616.
- Windlass. G. T. Macfarlane. No. 1,323,298; Dec. 2; v. 269; p. 14.
- Windlass. T. Orr. No. 1,321,939; Nov. 18; v. 268; p. 413.
- Windlass, Self-anchoring. E. C. Wingire. No. 1,307,389; June 24; v. 263; p. 499.
- Window. A. E. Kuneman. No. 1,303,331; May 13; v. 262; p. 189.
- Window. E. H. Lunken. No. 1,326,676; Dec. 30; v. 269; p. 808.
- Window. H. Mutchnik and H. Rudow. No. 1,297,892; Mar. 18; v. 260; p. 523.
- Window. H. Purdy. No. 1,323,910; Dec. 2; v. 269; p. 129.
- Window. F. A. Winslow. No. 1,303,752; May 13; v. 262; p. 266.
- Window-adjuster. F. A. Winslow. No. 1,292,978; Jan. 28; v. 258; p. 786.
- Window adjuster and lock. J. A. Lane. No. 1,297,479; Mar. 18; v. 260; p. 435.
- Window adjuster, Casement-. N. B. Hurd. No. 1,323,595; Dec. 2; v. 269; p. 70.
- Window adjuster, Casement-. C. E. Spencer and R. C. Spencer, Jr. No. 1,314,023; Aug. 26; v. 265; p. 494.
- Window and door. Casement. L. B. Shelton. No. 1,304,611; May 27; v. 262; p. 504.
- Window antirattling safety-lock and ventilating device combined. E. Bublitz. No. 1,295,426; Feb. 25; v. 259; p. 658.
- Window attachment. F. R. Haws. No. 1,304,479; May 20; v. 262; p. 440.
- Window attachment. W. Hearst. No. 1,321,741; Nov. 11; v. 268; p. 325.
- Window attachment, Casement-. A. H. Carrier. No. 1,300,926; Apr. 15; v. 261; p. 506.
- Window automatic lock. Z. Peheil. No. 1,298,251; Mar. 25; v. 260; p. 626.
- Window-blind. T. Batty. No. 1,326,249; Dec. 30; v. 269; p. 728.
- Window blind and curtain hanger. J. F. Bailey. No. 1,323,566; Dec. 2; v. 269; p. 65.
- Window-blind and lace-curtain holder. T. W. Garnett. No. 1,297,139; Mar. 11; v. 260; p. 334.
- Window-catch. Safety. C. E. Strom and C. Swanson. No. 1,313,840; Aug. 19; v. 265; p. 425.
- Window-cleaner. E. A. Browning. No. 1,304,736; May 27; v. 262; p. 527.
- Window-cleaner. W. C. Graham. No. 1,305,278; June 3; v. 263; p. 9.
- Window-cleaner. T. Kato. No. 1,295,516; Feb. 25; v. 259; p. 680.
- Window-cleaner. G. Racz. No. 1,309,302; July 8; v. 264; p. 267.
- Window-cleaner. M. E. Ryan. No. 1,315,161; Sept. 2; v. 266; p. 125.
- Window-cleaner. L. Sonderegger. No. 1,305,948; June 3; v. 263; p. 136.
- Window-cleaner. E. M. Vognild. No. 1,317,840; Oct. 7; v. 267; p. 34.
- Window-cleaner's safety appliance. G. S. Stuart. No. 1,290,404; Jan. 7; v. 258; p. 94.
- Window-cleaner's safety appliance. G. S. Stuart. No. 1,300,040; Apr. 8; v. 261; p. 350.
- Window-cleaning device. W. R. Kuehnelt. No. 1,293,125; Feb. 4; v. 259; p. 36.
- Window, Clear-vision. G. C. Kerr. No. 1,301,454; Apr. 22; v. 261; p. 709.
- Window-closure. C. C. Cavanagh. No. 1,292,253; Jan. 21; v. 258; p. 593.
- Window-closure. J. F. O'Brien. No. 1,310,367; July 15; v. 264; p. 499.
- Window construction. O. L. Baxter. No. 1,301,896; Apr. 29; v. 261; p. 825.
- Window construction. D. M. Davino. No. 1,290,719; Jan. 7; v. 258; p. 171.
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- Window construction. E. E. Kilmer. No. 1,305,119; May 27; v. 262; p. 599.
- Window construction. G. J. Reiff. No. 1,313,239; Aug. 12; v. 265; p. 297.
- Window construction. W. J. Stilling. No. 1,294,189; Feb. 11; v. 259; p. 314.
- Window construction. L. B. Wilkes. No. 1,307,387; June 24; v. 263; p. 498.
- Window construction, Model illustrating. J. E. Orr. No. 1,292,508; Jan. 28; v. 258; p. 674.
- Window-controlling apparatus. F. L. Gunton. No. 1,298,336; Mar. 25; v. 260; p. 643.
- Window, Curtain-. F. O. Kaeppler. No. 1,304,322; May 20; v. 262; p. 409.
- Window display-sign, Changeable. P. Klimowicz. No. 1,305,121; May 27; v. 262; p. 599.
- Window-envelope. G. W. Swift, Jr. No. 1,324,628; Dec. 9; v. 269; p. 311.
- Window, Extension-. C. S. Johanson. No. 1,310,797; July 22; v. 264; p. 611.
- Window-fastener. C. E. Bernier. No. 1,295,415; Feb. 25; v. 259; p. 656.
- Window-fastener. G. E. Carson. No. 1,307,112; June 17; v. 263; p. 415.
- Window-fastener. W. Kuhfuss. No. 1,296,817; Mar. 11; v. 260; p. 261.
- Window-fastener. J. W. McMahon. No. 1,314,488; Aug. 26; v. 265; p. 583.
- Window-fastener, Adjustable. M. L. Silverstein. No. 1,291,203; Jan. 14; v. 258; p. 309.
- Window fastener, Screen or storm-. J. W. Nippert. No. 1,326,608; Dec. 30; v. 269; p. 796.
- Window flower-box. A. E. Hurst. No. 1,293,785; Feb. 11; v. 259; p. 219.
- Window, Folding and sliding. A. A. Sebastian. No. 1,310,842; July 22; v. 264; p. 619.
- Window for bank-partitions, Teller's. L. Donahue. No. 1,314,513; Sept. 2; v. 266; p. 7.
- Window for cashiers' booths, Safety-. G. W. Clingan. No. 1,311,317; July 29; v. 264; p. 739.
- Window for wind-shield protector. S. J. Drew. No. 1,319,516; Oct. 21; v. 267; p. 441.
- Window-frame. H. P. Davis. No. 1,313,675; Aug. 19; v. 265; p. 394.
- Window-frame. H. S. Davis. No. 1,316,224; Sept. 16; v. 266; p. 344.
- Window-frame. J. Kahn. No. 1,292,795; Jan. 28; v. 258; p. 743.
- Window-frame. J. Namolick. No. 1,321,769; Nov. 11; v. 268; p. 330.
- Window-frame for fabrics. J. C. Backus. No. 1,324,872; Dec. 16; v. 269; p. 418.
- Window framing, Skylight. N. A. Lichty. No. 1,325,794; Dec. 23; v. 269; p. 607.
- Window, Frost-proof. W. J. Swisher. No. 1,317,110; Sept. 23; v. 266; p. 559.
- Window-glass-blowing head. W. E. Standley. No. 1,307,381; June 24; v. 263; p. 498.
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- Window-lock. H. W. Chronic. No. 1,318,965; Oct. 14; v. 267; p. 310.
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- Window-lock. G. F. Kinzel. No. 1,321,757; Nov. 11; v. 263; p. 328.
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- Window-lock and alarm. I. Fler. No. 1,297,672; Mar. 18; v. 260; p. 476.
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- Window-locking device. C. J. Selasky. No. 1,301,511; Apr. 22; v. 261; p. 720.
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- Window. Observation-. R. P. Breese. No. 1,318,839; Oct. 14; v. 267; p. 286.
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- Window-operating mechanism. S. E. Cibulas. No. 1,292,706; Jan. 28; v. 258; p. 723.
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- Window or door screen. W. J. Smith. No. 1,325,961; Dec. 23; v. 269; p. 637.
- Window-panel-supporting frame. J. Soss. No. 1,313,347; Aug. 19; v. 265; p. 382.
- Window. Pocket-. E. H. Lunken. No. 1,326,677; Dec. 30; v. 269; p. 808.
- Window-post. P. M. Kling. No. 1,307,822; June 24; v. 263; p. 577.
- Window-protector. D. Davis. No. 1,314,510; Sept. 2; v. 266; p. 6.
- Window-regulator. J. T. Allmand and J. D. Lawrence. No. 1,317,150; Sept. 30; v. 266; p. 603.
- Window-regulator. F. J. Todd. No. 1,304,825; May 27; v. 262; p. 544.
- Window-safety device. F. R. Blankennagel. No. 1,325,227; Dec. 16; v. 269; p. 484.
- Window-sash. J. Spoljar. No. 1,316,065; Sept. 16; v. 266; p. 314.
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- Window-sash lock. G. Miller. No. 1,294,934; Feb. 18; v. 259; p. 523.
- Window-sash lock. W. H. Monroe. No. 1,316,379; Sept. 16; v. 266; p. 373.
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- Window-sash-lowering device. E. A. Williams. No. 1,290,451; Jan. 7; v. 258; p. 106.
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- Window-sashes. Safety-stop for. C. L. Ditlefsen. No. 1,322,677; Nov. 25; v. 268; p. 603.
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- Window-screen. A. W. Emerson. No. 1,317,361; Sept. 30; v. 266; p. 642.
- Window-screen. E. Jaworek. No. 1,323,061; Nov. 25; v. 268; p. 675.
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- Window-screen. J. Roch. No. 1,311,248; July 29; v. 264; p. 726.
- Window-screen. Adjustable. H. M. Opitz. No. 1,299,016; Apr. 1; v. 261; p. 92.
- Window screen and ventilator. Combined. A. Zeman. No. 1,318,253; Oct. 7; v. 267; p. 114.
- Window-screen. Disappearing. G. Groff. No. 1,294,094; Feb. 11; v. 259; p. 292.
- Window-screen. Disappearing. J. K. Schenck. No. 1,314,221; Aug. 26; v. 265; p. 532.
- Window-screen frame. R. Zreblec. No. 1,324,950; Dec. 16; v. 269; p. 432.
- Window-screens and the like. Adjustable frame for. P. W. Fry. No. 1,295,476; Feb. 25; v. 259; p. 670.
- Window-screens. Device for repairing. D. Osgood. No. 1,324,845; Dec. 16; v. 269; p. 413.
- Window. Screened. B. Blackburn. No. 1,303,455; May 13; v. 262; p. 211.
- Window-seat. Portable. J. H. F. Bullwinkel. No. 1,297,540; Mar. 18; v. 260; p. 448.
- Window-securing device. J. B. Tilley. No. 1,290,410; Jan. 7; v. 258; p. 95.
- Window-shade. H. Arnold. No. 1,326,012; Dec. 23; v. 269; p. 646.
- Window-shade. J. R. Barnard. No. 1,321,587; Nov. 11; v. 268; p. 296.
- Window-shade. P. Blasucci. No. 1,324,421; Dec. 9; v. 269; p. 271.
- Window-shade. Adjustable. W. L. Amstalden. No. 1,302,491; May 6; v. 262; p. 3.
- Window shade and curtain bracket. R. J. Brown. No. 1,306,099; June 10; v. 263; p. 194.
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- Window-shade guide. J. E. Orr. No. 1,323,646; Dec. 2; v. 269; p. 79.
- Window-shade hollow slat. C. Joseph. No. 1,303,678; May 13; v. 262; p. 252.
- Window-shade material. J. P. Whitmore. No. 1,322,855; Nov. 25; v. 268; p. 636.
- Window-shade mounting. A. H. Carrier. No. 1,313,672; Aug. 19; v. 265; p. 393.
- Window-shade-operating device. H. M. Minnis. No. 1,325,105; Dec. 16; v. 269; p. 461.
- Window-shade roller. J. Sheppard. No. 1,321,250; Nov. 11; v. 268; p. 232.
- Window-shade roller. J. Sheppard. No. 1,321,251; Nov. 11; v. 268; p. 232.
- Window-shade roller. J. Sheppard. No. 1,321,674; Nov. 11; v. 268; p. 312.
- Window-shade structure and ventilator therefor. G. E. Losee. No. 1,303,081; May 6; v. 262; p. 114.
- Window-shield. W. A. Klingberg. No. 1,290,239; Jan. 7; v. 258; p. 55.
- Window stay. Casement-. L. Hanson. No. 1,312,727; Aug. 12; v. 265; p. 196.
- Window-steadying device. L. W. Gates and J. T. Allmand. No. 1,311,162; July 29; v. 264; p. 711.
- Window. Storm-. J. G. Marvin. No. 1,321,224; Nov. 11; v. 268; p. 227.
- Window structure. T. G. Denny. No. 1,316,283; Sept. 16; v. 266; p. 355.
- Window support. Storm-. A. S. Thomas. No. 1,317,242; Sept. 30; v. 266; p. 620.
- Window. Swinging and sliding. A. A. Sebastian. No. 1,310,843; July 22; v. 264; p. 619.
- Window unit. Assembled twin-. A. E. Ostrander. No. 1,318,297; Oct. 7; v. 267; p. 122.
- Window. Ventilating-. E. S. Johnson. No. 1,326,200; Dec. 30; v. 269; p. 719.
- Window-ventilator. H. M. Case. No. 1,299,126; Apr. 1; v. 261; p. 116.
- Window-ventilator. A. B. Fuhr. No. 1,309,886; July 15; v. 264; p. 412.
- Window-ventilator. G. F. Gebhardt. No. 1,323,978; Dec. 2; v. 269; p. 142.
- Window-ventilator. J. Gruber. No. 1,310,475; July 22; v. 264; p. 550.
- Window-ventilator. C. R. A. Long. No. 1,300,850; Apr. 15; v. 261; p. 549.
- Window-ventilator. O. and N. G. Nelson. No. 1,294,145; Feb. 11; v. 259; p. 304.
- Window-ventilator. J. Snyder. No. 1,294,316; Feb. 11; v. 259; p. 344.
- Window ventilator and screen. P. L. Hedberg. No. 1,304,767; May 27; v. 262; p. 533.
- Window. Vertically sliding or swinging sash-. F. E. Stowe. No. 1,305,316; June 3; v. 263; p. 17.
- Window-washer's guard-clamp. O. V. Peterson. No. 1,291,112; Jan. 14; v. 258; p. 289.
- Window-washer's platform. W. H. Edland. No. 1,295,453; Feb. 25; v. 259; p. 664.
- Window-washers. Safety-rack for. B. C. Carter. No. 1,318,479; Oct. 14; v. 267; p. 217.
- Window-weatherproofing. A. C. Soule. No. 1,302,480; Apr. 29; v. 261; p. 936.
- Windows. Adjuster for balanced. W. M. Myers. No. 1,314,892; Sept. 2; v. 266; p. 77.
- Windows and other finished surfaces. Device for cleaning. G. Sartor. No. 1,299,785; Apr. 8; v. 261; p. 295.
- Windows and the like. Fastener for casement-. S. Evered and C. Willmott. No. 1,290,145; Jan. 7; v. 258; p. 32.
- Windows, &c. Control means for. G. H. Woodfield. No. 1,315,447; Sept. 9; v. 266; p. 188.
- Windows. Mechanism for operating and locking. P. Andreatta. No. 1,292,222; Jan. 21; v. 258; p. 586.
- Windows. Sash-holder for. C. Nystrom. No. 1,307,306; June 17; v. 263; p. 450.
- Windows. Ventilated glass-setting for. G. C. Hester. No. 1,303,062; May 6; v. 262; p. 111.
- Windowing-machine. J. C. Corbin. No. 1,321,721; Nov. 11; v. 268; p. 321.
- Windowing-machine. H. O. Scranton. No. 1,323,498; Dec. 2; v. 269; p. 52.
- Windshield. D. P. Tribe and E. F. Kohn. No. 1,318,304; Oct. 7; v. 267; p. 123.
- Wings. Extendible. J. C. Ward. No. 1,324,218; Dec. 9; v. 269; p. 232.
- Wire. Apparatus for treating link mesh made from solder-core. R. H. Berkley. No. 1,305,052; May 27; v. 262; p. 586.
- Wire attachment. Guy-. C. F. Willard. No. 1,310,850; July 22; v. 264; p. 620.
- Wire bag-ties. Tool for tying. A. M. Bates. No. 1,306,163; June 10; v. 263; p. 206.

- Wire, Barbed. E. I. Braddock. No. 1,320,117; Oct. 28; v. 267; p. 576.
- Wire, Barbed. G. Klenk. No. 1,294,677; Feb. 18; v. 259; p. 464.
- Wire-bender. S. M. Johnson. No. 1,316,243; Sept. 16; v. 266; p. 347.
- Wire-bending machine. J. F. Kitchen. No. 1,293,119; Feb. 4; v. 259; p. 34.
- Wire-bending machine. H. B. Snell. No. 1,316,257; Sept. 16; v. 266; p. 350.
- Wire-bending machine. Core. J. A. Lacourse. No. 1,299,583; Apr. 8; v. 261; p. 248.
- Wire-binding clip. E. Baltzley. No. 1,317,416; Sept. 30; v. 266; p. 653.
- Wire-binding machine. R. J. Smirle. No. 1,325,916; Dec. 23; v. 269; p. 629.
- Wire-bound barrels, Machine for making. E. W. and C. J. Robinson. No. 1,324,619; Dec. 9; v. 269; p. 309.
- Wire-bound barrels, Retainer for terminal staves of. E. W. Robinson. No. 1,291,154; Jan. 14; v. 258; p. 298.
- Wire-bound barrels, Securing heads in. E. W. and C. J. Robinson. No. 1,320,924; Nov. 4; v. 268; p. 107.
- Wire-bound box and the like. H. W. Rice and L. A. Sturrock. No. 1,317,317; Sept. 30; v. 266; p. 634.
- Wire-bound-box-blank machine. J. J. Miller. No. 1,291,071; Jan. 14; v. 258; p. 279.
- Wire-bound-box-blank machine. J. J. Miller. No. 1,324,462; Dec. 9; v. 269; p. 279.
- Wire-bound-box machine. S. F. Bauwens. No. 1,313,854; Aug. 19; v. 265; p. 428.
- Wire-bound-box machine. S. F. Bauwens. No. 1,313,855; Aug. 19; v. 265; p. 428.
- Wire cable. W. N. Rettinger. No. 1,312,872; Aug. 12; v. 265; p. 224.
- Wire cables, ropes, and other bearing-surfaces, Composition for protecting. E. J. Keith. No. 1,305,222; May 27; v. 262; p. 619.
- Wire chain. F. W. Smith, Jr. No. 1,305,673; June 3; v. 263; p. 84.
- Wire circuits, Ringing arrangements for four. C. S. Demarest. No. 1,317,155; Sept. 30; v. 266; p. 604.
- Wire clamp for stretching wires, Straight line. H. B. Bush. No. 1,320,600; Nov. 4; v. 268; p. 45.
- Wire-coating machine. F. S. Kochendorfer and H. Blount. No. 1,303,070; May 6; v. 262; p. 112.
- Wire-coiling machine. F. L. Andren. No. 1,295,835; Mar. 4; v. 260; p. 3.
- Wire-coiling machine. F. H. Sleeper. No. 1,314,909; Sept. 2; v. 266; p. 80.
- Wire-connector. J. R. Moore. No. 1,293,862; Feb. 11; v. 259; p. 238.
- Wire connector, Multiple. V. P. Grindle. No. 1,295,304; Feb. 25; v. 259; p. 630.
- Wing construction. H. Kleckler. No. 1,291,678; Jan. 14; v. 258; p. 420.
- Wire-cutter. P. Borszcz. No. 1,298,166; Mar. 25; v. 260; p. 607.
- Wire-cutter. R. J. Hodge. No. 1,317,444; Sept. 30; v. 266; p. 658.
- Wire-cutter. P. Kozbial. No. 1,290,581; Jan. 7; v. 258; p. 137.
- Wire-cutter. M. Krasnyanik. No. 1,317,632; Sept. 30; v. 266; p. 695.
- Wire-cutter. H. Romanoff. No. 1,298,403; Mar. 25; v. 260; p. 657.
- Wire-cutter. B. Sorocinsky. No. 1,290,674; Jan. 7; v. 258; p. 160.
- Wire-cutter. S. Wytrwal. No. 1,299,279; Apr. 1; v. 261; p. 151.
- Wire-cutting device. H. P. Smith. No. 1,309,664; July 15; v. 264; p. 372.
- Wire-drawing apparatus, Safety device for. G. O. Rose and T. Kurtz. No. 1,296,221; Mar. 4; v. 260; p. 93.
- Wire-drawing machine. H. L. Benner. No. 1,316,411; Sept. 16; v. 266; p. 379.
- Wire-drawing machine. J. A. Horton. No. 1,323,282; Dec. 2; v. 269; p. 11.
- Wire-drawing machine, Continuous. C. D. Johnson and F. W. Lodding. No. 1,322,904; Nov. 25; v. 268; p. 645.
- Wire-drawing machines, Apparatus for hammering the dies of. R. D. Connor and R. P. Slinger. No. 1,310,968; July 22; v. 264; p. 641.
- Wire-drawing machines, Inverted drum for. J. A. Horton. No. 1,291,892; Jan. 21; v. 258; p. 503.
- Wire-drawing mechanism, Continuous. C. A. Barron. No. 1,316,935; Sept. 23; v. 266; p. 525.
- Wire-fabric machine. W. J. Pine. No. 1,293,540; Feb. 4; v. 259; p. 131.
- Wire fabric, Production of articles from. J. S. Barnes. No. 1,324,024; Dec. 9; v. 269; p. 195.
- Wire fabrics, Apparatus for making woven. W. Schneider. No. 1,306,859; June 17; v. 263; p. 369.
- Wire-fastening device. A. J. Christopher. No. 1,307,240; June 17; v. 263; p. 438.
- Wire-feeding mechanism. I. Larsen. No. 1,316,310; Sept. 16; v. 266; p. 360.
- Wire-feeding mechanism. S. C. Lay and F. M. Baker. No. 1,295,044; Feb. 18; v. 259; p. 547.
- Wire-fence clamp. S. Gibson. No. 1,321,818; Nov. 18; v. 268; p. 390.
- Wire-fence fabrics, Machine for manufacturing. W. H. Sommer. No. 1,307,563; June 24; v. 263; p. 530.
- Wire-fence fastener. J. F. Inman. No. 1,314,808; Sept. 2; v. 266; p. 62.
- Wire-fence machines, Feed mechanism for. W. V. Reid. No. 1,291,141; Jan. 14; v. 258; p. 295.
- Wire-fence machines, Feeding mechanism for. W. V. Reid. No. 1,291,142; Jan. 14; v. 258; p. 295.
- Wire-fence-stay-forming machine. L. W. Holmes. No. 1,292,604; Jan. 28; v. 258; p. 699.
- Wire-fence stretcher and tightener. E. Sahler and J. W. Holt. No. 1,322,060; Nov. 18; v. 268; p. 435.
- Wire-fence tightener. R. R. Robbins. No. 1,304,806; May 27; v. 262; p. 540.
- Wire-fence tool. D. M. and D. B. Shoun. No. 1,314,434; Aug. 26; v. 265; p. 574.
- Wire fillings to frames, Securing. W. H. Sommer. No. 1,301,517; Apr. 22; v. 261; p. 721.
- Wire fillings to frames, Securing. W. H. Sommer. No. 1,301,518; Apr. 22; v. 261; p. 721.
- Wire-forming machine. J. S. Kepler. No. 1,304,780; May 27; v. 262; p. 535.
- Wire-forming machine. W. W. Vincent. No. 1,313,509; Aug. 19; v. 265; p. 363.
- Wire frame. J. J. Williams. No. 1,302,888; May 6; v. 262; p. 78.
- Wire globes, Manufacturing. F. O. Ackers. No. 1,321,410; Nov. 11; v. 268; p. 263.
- Wire-grip. S. P. Leverich. No. 1,312,635; Aug. 12; v. 265; p. 179.
- Wire-grip. G. Scott. No. 1,293,559; Feb. 4; v. 259; p. 186.
- Wire-hanger. A. O. Austin. No. 1,321,078; Nov. 11; v. 268; p. 199.
- Wire hanger, Conductor. J. T. Morgan. No. 1,325,899; Dec. 23; v. 269; p. 626.
- Wire, Hardening and tempering of. H. Hepworth. No. 1,315,835; Sept. 9; v. 266; p. 257.
- Wire-holder. A. P. Davis. No. 1,313,795; Aug. 19; v. 265; p. 417.
- Wire-hoop machine. J. Hauk. No. 1,307,735; June 24; v. 263; p. 562.
- Wire, Insulated. W. E. Cook. No. 1,298,297; Mar. 25; v. 260; p. 636.
- Wire into loops, Method and machine to bend metal. C. G. Söderlund. No. 1,326,541; Dec. 30; v. 269; p. 783.
- Wire-line clamp. T. W. Bell and T. C. Rogers. No. 1,308,924; July 8; v. 264; p. 196.
- Wire, Machine for making nails or pins from. J. Wikschtröm. No. 1,321,778; Nov. 11; v. 268; p. 332.
- Wire, Machine for making soft-metal. S. A. Nagy. No. 1,291,603; Jan. 14; v. 258; p. 402.
- Wire, Machine for tying objects with. R. M. Warwick. No. 1,293,267; Feb. 4; v. 259; p. 68.
- Wire, Machine for tying objects with. R. M. Warwick. No. 1,305,422; June 3; v. 263; p. 36.
- Wire-making machine, Insulated. W. E. Cook. No. 1,312,954; Aug. 12; v. 265; p. 240.
- Wire mechanism, Bowden. A. E. Sentinella. No. 1,319,627; Oct. 21; v. 267; p. 462.
- Wire nail. G. A. Curtis. No. 1,298,015; Mar. 25; v. 260; p. 576.
- Wire-nail shingle-clamp, Twin. A. A. Griswold. No. 1,321,623; Nov. 11; v. 268; p. 303.
- Wire-netting, Apparatus for the manufacture of. F. and F. Rivière. No. 1,310,966; July 22; v. 264; p. 641.
- Wire or cable clamp. P. M. Benedict. No. 1,307,340; June 24; v. 263; p. 490.
- Wire or radio communications, Apparatus for use in. L. de Forest. No. 1,314,253; Aug. 26; v. 265; p. 538.
- Wire, or wire-rod, drawing plates or dies, Setting. M. Howarth. No. 1,293,442; Feb. 4; v. 259; p. 109.
- Wire-reel. M. E. Buck. No. 1,299,550; Apr. 8; v. 261; p. 240.
- Wire-reel. R. D. Wirt. No. 1,302,262; Apr. 29; v. 261; p. 894.
- Wire-reel for fastening-inserting machines. W. H. Borden. No. 1,294,384; Feb. 18; v. 259; p. 394.
- Wire-reeling device, Barb. L. F. Hubert. No. 1,320,232; Oct. 28; v. 267; p. 598.
- Wire remover, Tie. J. E. Webb. No. 1,311,475; July 29; v. 264; p. 769.
- Wire rods, Apparatus for coiling and cooling. V. E. Edwards. No. 1,295,189; Feb. 25; v. 259; p. 593.
- Wire-roll holder. V. Skornia. No. 1,317,108; Sept. 23; v. 266; p. 559.
- Wire rope, Abrasive. G. M. Selby. No. 1,306,636; June 10; v. 263; p. 295.
- Wire-rope clamp. B. C. Moise. No. 1,300,994; Apr. 15; v. 261; p. 580.
- Wire-rope-clamping device. R. T. Torkelson. No. 1,297,039; Mar. 11; v. 260; p. 312.
- Wire-rope fitting. B. F. Shaver. No. 1,314,542; Sept. 2; v. 266; p. 12.
- Wire-rope-track carriage. W. Goetz. No. 1,292,308; Jan. 21; v. 258; p. 605.
- Wire self-holder, One-piece live. F. W. Simonson. No. 1,301,012; Apr. 15; v. 261; p. 584.
- Wire-splice. S. R. Jones. No. 1,291,538; Jan. 14; v. 258; p. 386.
- Wire-splicer. B. F. Freed. No. 1,316,294; Sept. 16; v. 266; p. 357.
- Wire-splicing device. E. Sahler. No. 1,322,136; Nov. 18; v. 268; p. 449.



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- Wire-splicing tool. H. H. Heuberger. No. 1,314,079; Aug. 26; v. 265; p. 505.
- Wire-splicing tool. T. King. No. 1,313,488; Aug. 19; v. 265; p. 359.
- Wire-spoked wheel. G. Greenlee. No. 1,302,467; Apr. 29; v. 261; p. 934.
- Wire-spoked wheel, Detachable. E. G. Budd. No. 1,290,400; Apr. 1; v. 261; p. 178.
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- Wire spring. H. Vanderploeg. No. 1,291,287; Jan. 14; v. 258; p. 328.
- Wire staples. Machine for use in making. F. W. Rasmussen. No. 1,296,696; Mar. 11; v. 260; p. 234.
- Wire stitching or stapling machine. A. H. Maynard. No. 1,302,462; Apr. 29; v. 261; p. 921.
- Wire straightening and cutting-off machine. E. E. Shuster. No. 1,313,024; Aug. 12; v. 265; p. 255.
- Wire-stretcher. G. Branam. No. 1,302,003; Apr. 29; v. 261; p. 846.
- Wire-stretcher. L. E. Danner. No. 1,305,779; June 3; v. 263; p. 164.
- Wire-stretcher. C. A. Hall. No. 1,311,390; July 29; v. 264; p. 753.
- Wire-stretcher. A. A. Hansen. No. 1,325,090; Dec. 16; v. 269; p. 458.
- Wire-stretcher. A. Hesjedal. No. 1,320,856; Nov. 4; v. 268; p. 94.
- Wire-stretcher. A. Johnson. No. 1,303,067; May 6; v. 262; p. 111.
- Wire-stretcher. D. Johnson. No. 1,323,771; Dec. 2; v. 269; p. 102.
- Wire-stretcher. C. C. McMurphy. No. 1,293,493; Feb. 4; v. 259; p. 120.
- Wire-stretcher. H. W. Oelrich. No. 1,299,998; Apr. 8; v. 261; p. 340.
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- Wire-stretcher. F. Wayman. No. 1,304,830; May 27; v. 262; p. 545.
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- Wire stretching and splicing tool. T. J. Waite. No. 1,290,431; Jan. 7; v. 258; p. 100.
- Wire-stretching device. C. J. H. Pending. No. 1,292,867; Jan. 28; v. 258; p. 760.
- Wire-stripping machine, Insulated. M. C. France. No. 1,306,588; June 10; v. 263; p. 286.
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- Wire terminal. Sheathed. A. M. Wentworth. No. 1,298,609; Mar. 25; v. 260; p. 702.
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- Wire-tightening device. O. Hinselman. No. 1,305,798; June 3; v. 263; p. 107.
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- Wire-twister. L. F. Brewer. No. 1,293,016; Feb. 4; v. 259; p. 11.
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- Wire-uncoiling apparatus. R. J. Smirle. No. 1,312,058; Aug. 5; v. 265; p. 38.
- Wire-uncoiling machine. W. E. Cook. No. 1,312,952; Aug. 12; v. 265; p. 240.
- Wire wheel. C. W. Parker. No. 1,298,087; Mar. 25; v. 260; p. 590.
- Wire-winding machine. N. Crane. No. 1,307,620; June 24; v. 263; p. 540.
- Wire-working machine. F. C. A. Goetz. No. 1,297,461; Mar. 18; v. 260; p. 431.
- Wire-working machine. J. F. Shelton. No. 1,325,047; Dec. 16; v. 269; p. 450.
- Wire-working machine. W. M. Smelo. No. 1,294,314; Feb. 11; v. 259; p. 343.
- Wires. Anchor for checkrow. C. Farnsworth. No. 1,324,240; Dec. 9; v. 269; p. 236.
- Wires. Connector for electric. R. B. Benjamin. No. 1,324,994; Dec. 16; v. 269; p. 440.
- Wires. Equalizer-stiffing for airplane. D. L. Behnke. No. 1,322,868; Nov. 25; v. 268; p. 638.
- Wires. Insulating-coupling for fence. J. L. Martin. No. 1,304,342; Mar. 20; v. 262; p. 413.
- Wires. Joining up electric and other. J. H. van Viersen. No. 1,297,614; Mar. 18; v. 260; p. 464.
- Wires. Machine for forming tie. G. M. Brous. No. 1,315,083; Sept. 2; v. 266; p. 112.
- Wires. Splicing tool for barbed and other. C. H. Hettinger. No. 1,318,078; Oct. 7; v. 267; p. 79.
- Wires. Suspension-clamp for trolley. L. H. Pike. No. 1,322,945; Nov. 25; v. 268; p. 653.
- Wires. System of multiplying trunk. W. Aitken. No. 1,311,432; July 29; v. 264; p. 761.
- Wires. Terminal clip for electric. A. G. Groenenstein. No. 1,297,560; Mar. 18; v. 260; p. 452.
- Wires. Tightening. F. Wikowsky. No. 1,320,949; Nov. 4; v. 268; p. 111.
- Wireless detector. S. S. Jones. No. 1,290,755; Jan. 7; v. 258; p. 179.
- Wireless distribution systems. Antenna for. P. C. Hewitt. No. 1,305,104; May 27; v. 262; p. 596.
- Wireless receiving system. A. W. Hull. No. 1,291,527; Jan. 14; v. 258; p. 384.
- Wireless-signal receiver. C. S. Franklin. No. 1,301,246; Apr. 22; v. 261; p. 669.
- Wireless signaling. Aerial for. C. S. Franklin. No. 1,296,177; Mar. 4; v. 260; p. 84.
- Wireless signaling apparatus. R. A. Weagant. No. 1,290,438; Jan. 7; v. 258; p. 103.
- Wireless-signaling receiving instrument. A. Artom. No. 1,303,625; May 13; v. 262; p. 242.
- Wireless signaling system. W. C. White. No. 1,298,613; Mar. 25; v. 260; p. 703.
- Wireless system. J. Mills and J. R. Carson. No. 1,309,538; July 8; v. 264; p. 311.
- Wireless telegraphy and telephony station. G. von Arco and A. Meissner. No. 1,294,983; Feb. 18; v. 259; p. 534.
- Wireless telephone system for railways and the like. Inductive. V. G. Werner and K. H. Warfvinge. No. 1,312,068; Aug. 5; v. 265; p. 41.
- Wireless transmission. Directive. P. C. Hewitt. No. 1,314,593; Sept. 2; v. 266; p. 23.
- Wireless transmission of energy. E. C. Hanson. No. 1,315,197; Sept. 2; v. 266; p. 132.
- Wireless transmission of signals. E. C. Hanson. No. 1,320,140; Oct. 28; v. 267; p. 581.
- Wiring-machine. Universal. C. M. Yoder. No. 1,319,503; Oct. 21; v. 267; p. 439.
- Wireworking-tool. J. F. Kelleher. No. 1,321,314; Nov. 11; v. 268; p. 244.
- Wood. Apparatus for impregnating. J. H. Parsons. No. 1,319,531; Oct. 21; v. 267; p. 443.
- Wood-barking machine. N. Lombard. No. 1,300,748; Apr. 15; v. 261; p. 527.
- Wood-carving machine. J. Janes. No. 1,299,350; Apr. 1; v. 261; p. 167.
- Wood-carving machine. D. B. Salstrom. No. 1,324,567; Dec. 9; v. 269; p. 299.
- Wood-chipping apparatus. H. E. Tidmarsh. No. 1,295,388; Feb. 25; v. 259; p. 649.
- Wood-fiber products. Size for. R. W. Sidwell. No. 1,313,343; Aug. 19; v. 265; p. 332.
- Wood Gluing. W. M. Grosvenor. No. 1,299,705; Apr. 8; v. 261; p. 276.
- Wood pavement. H. G. Jennison. No. 1,302,560; May 6; v. 262; p. 15.
- Wood-planing machine. W. N. Sawyer. No. 1,302,717; May 6; v. 262; p. 45.
- Wood. Protecting and fireproofing. A. Arent and R. A. Kuever. No. 1,318,523; Oct. 14; v. 267; p. 226.
- Wood-nail and cellulose. Rotary pressing apparatus for. R. E. Wagner. No. 1,321,956; Nov. 18; v. 268; p. 416.
- Wood-pulp plants. Sieve for. A. G. Westad and E. L. Hagg. No. 1,313,145; Aug. 12; v. 265; p. 279.
- Wood-pulp. Process and apparatus for reclaiming waste products in the manufacture of. H. K. Moore and J. T. Quinn. No. 1,326,414; Dec. 30; v. 269; p. 759.
- Wood-scrapping machine and the like. W. N. Sawyer. No. 1,302,718; May 6; v. 262; p. 45.
- Wood separators. Producing. T. F. Ferry. No. 1,312,243; Aug. 5; v. 265; p. 73.
- Wood-shaving machine. C. A. Wakeman. No. 1,305,421; June 3; v. 263; p. 36.
- Wood-splitting machine. E. B. Inman. No. 1,310,660; July 22; v. 264; p. 585.
- Wood stain and filler. C. F. Blackketter. No. 1,316,674; Sept. 23; v. 266; p. 478.
- Wood-strip-cutting machine. A. H. Nordyke and J. E. Norris. No. 1,313,325; Aug. 19; v. 265; p. 328.
- Wood tank. W. H. Parton. No. 1,306,616; June 10; v. 263; p. 291.
- Wood. Treating. W. Powell. No. 1,297,491; Mar. 18; v. 260; p. 438.
- Wood. Treating. C. H. Teesdale. No. 1,295,828; Feb. 25; v. 259; p. 752.
- Wood waste and kindred substances. Treatment of. H. Gallinowsky. No. 1,326,894; Dec. 30; v. 269; p. 849.
- Wooden paving-block. A. T. Schutte. No. 1,299,238; Apr. 1; v. 261; p. 141.
- Wooden posts and poles from decaying. Means for preserving. E. H. Hershey. No. 1,293,771; Feb. 11; v. 259; p. 216.
- Wooden-structure joint. B. C. Rockwell. No. 1,308,372; July 1; v. 264; p. 67.
- Woodworking. Housing-machine for. A. B. Dauger. No. 1,306,252; June 10; v. 263; p. 225.
- Woodworking-machine. D. Cameron. No. 1,300,815; Apr. 15; v. 261; p. 542.
- Woodworking-machine. H. E. Cowdrey. No. 1,319,046; Oct. 21; v. 267; p. 357.
- Woodworking-machine. W. M. Elks and S. J. Dixon. No. 1,297,125; Mar. 11; v. 260; p. 331.

- Woodworking-machine. W. B. Knickerbocker. No. 1,300,415; Apr. 15; v. 261; p. 457.
- Woodworking-machine. C. A. Oveson. No. 1,313,950; Aug. 26; v. 265; p. 480.
- Woodworking-machine. R. O. Steffen. No. 1,300,892; Apr. 15; v. 261; p. 558.
- Woodworking-machines, Hopper-feed for. A. E. Folsom. No. 1,302,649; May 6; v. 262; p. 32.
- Woodworking-tool. A. Hunter. No. 1,322,572; Nov. 23; v. 268; p. 583.
- Wool-drier conveying device. F. G. Sargent. No. 1,301,177; Apr. 22; v. 261; p. 655.
- Wool-scouring liquors, Treating. G. Kolsky. No. 1,325,873; Dec. 23; v. 269; p. 622.
- Wool, Treating. H. Y. McBride. No. 1,323,641; Dec. 2; v. 269; p. 78.
- Wool-treating machine. H. Y. McBride. No. 1,323,885; Dec. 2; v. 269; p. 124.
- Work-bench. L. H. Flair. No. 1,295,463; Feb. 25; v. 259; p. 667.
- Work-centering device. J. Ratheram. No. 1,309,217; July 8; v. 264; p. 251.
- Work-clamp. A. C. Treuthardt. No. 1,323,127; Nov. 25; v. 268; p. 687.
- Work-holder. F. J. Bank. No. 1,291,719; Jan. 21; v. 258; p. 460.
- Work-holder. D. Galvin. No. 1,301,424; Apr. 22; v. 261; p. 704.
- Work-holder. E. M. Peters. No. 1,315,238; Sept. 9; v. 266; p. 150.
- Work-holding clamp. J. P. Leimbach. No. 1,306,433; June 10; v. 263; p. 258.
- Work-holding device. A. Pláček. No. 1,324,269; Dec. 9; v. 269; p. 241.
- Work-holding mechanism. E. E. Einfeldt. No. 1,316,702; Sept. 23; v. 266; p. 483.
- Work-positioning means. L. M. Brown. No. 1,319,266; Oct. 21; v. 267; p. 393.
- Work-positioning means. W. S. Sherman. No. 1,320,423; Nov. 4; v. 268; p. 13.
- Work-support. J. R. Beckett. No. 1,292,235; Jan. 21; v. 258; p. 589.
- Work-support. C. C. Blake. No. 1,314,385; Aug. 26; v. 265; p. 564.
- Work-support. P. R. Glass. No. 1,294,443; Feb. 18; v. 259; p. 410.
- Work-support. T. Lund. No. 1,324,914; Dec. 16; v. 269; p. 426.
- Work-support. A. A. Macleod and L. M. Brown. No. 1,319,232; Oct. 21; v. 267; p. 387.
- Work-support. T. Smolinsky. No. 1,306,782; June 17; v. 263; p. 355.
- Work-support controlling and operating mechanism. M. Brock. No. 1,291,754; Jan. 21; v. 258; p. 468.
- Woven articles and manufacturing, Raw material for. K. Miyake. No. 1,316,848; Sept. 23; v. 266; p. 510.
- Woven carrier. F. R. Batchelder. No. 1,325,272; Dec. 16; v. 269; p. 493.
- Woven carrier and producing same. C. F. Randall. No. 1,291,134; Jan. 14; v. 258; p. 293.
- Woven fabric. G. R. Ayres. No. 1,310,902; July 22; v. 264; p. 629.
- Woven fabric. W. F. Grupe. No. 1,319,768; Oct. 28; v. 267; p. 511.
- Woven fabric. W. M. Stevenson. No. 1,325,337; Dec. 16; v. 269; p. 505.
- Woven fabric. R. G. Turner. No. 1,320,996; Nov. 4; v. 268; p. 121.
- Woven fabric, Edge-finishing and uniting. G. M. Eames. No. 1,305,528; June 3; v. 263; p. 56.
- Woven garter-pad. W. Achtmeyer. No. 1,310,271; July 15; v. 264; p. 482.
- Woven pile fabric. J. Coley. No. 1,305,066; May 27; v. 262; p. 589.
- Woven pocketed carrier and making same. V. H. Jennings. No. 1,293,791; Feb. 11; v. 259; p. 221.
- Woven-reed articles, Producing. M. B. Lloyd. No. 1,298,230; Mar. 25; v. 260; p. 621.
- Woven-reed articles, Producing. M. B. Lloyd. No. 1,298,231; Mar. 25; v. 260; p. 622.
- Woven-reed articles, Producing. M. B. Lloyd. No. 1,298,232; Mar. 25; v. 260; p. 622.
- Woven-reed articles, Producing. M. B. Lloyd. No. 1,298,233; Mar. 25; v. 260; p. 622.
- Woven web and production of same. F. H. Stewart. No. 1,324,627; Dec. 9; v. 269; p. 311.
- Wrapper. E. R. Christensen. No. 1,296,765; Mar. 11; v. 260; p. 250.
- Wrapper-blanks for boxes or packages, Machine for gumming. J. S. Stokes. No. 1,302,874; May 6; v. 262; p. 75.
- Wrapper, Box. J. Gore. No. 1,291,480; Jan. 14; v. 258; p. 373.
- Wrapping and banding machine. E. L. Smith. No. 1,298,807; Apr. 1; v. 261; p. 45.
- Wrapping-machine. H. Y. Armstrong. No. 1,292,674; Jan. 28; v. 258; p. 715.
- Wrapping-machine. H. Y. Armstrong. No. 1,298,637; Apr. 1; v. 261; p. 3.
- Wrapping-machine. H. Y. Armstrong. No. 1,308,320; July 1; v. 264; p. 57.
- Wrapping-machine. H. Y. Armstrong. No. 1,308,321; July 1; v. 264; p. 57.
- Wrapping-machine. A. Heck. No. 1,295,988; Mar. 4; v. 260; p. 38.
- Wrapping-machine. G. H. Lewis. No. 1,294,681; Feb. 18; v. 259; p. 464.
- Wrapping-machine. W. E. Miller. No. 1,324,463; Dec. 9; v. 269; p. 280.
- Wrapping-machine. C. C. Page. No. 1,290,027; Jan. 7; v. 268; p. 3.
- Wrapping-machine. C. A. Petterson. No. 1,300,189; Apr. 8; v. 261; p. 383.
- Wrapping-machine. E. E. Smith. No. 1,306,358; June 10; v. 263; p. 245.
- Wrapping-machine. E. L. Smith and A. E. Phelon. No. 1,313,863; Aug. 19; v. 265; p. 430.
- Wrapping-machine. E. L. Smith and A. E. Phelon. No. 1,313,864; Aug. 19; v. 265; p. 430.
- Wrapping-machine. C. R. Wiczoreck. No. 1,319,982; Oct. 28; v. 267; p. 552.
- Wrapping machine, Quill. J. Josephs and D. T. Berlzheimer. No. 1,298,221; Mar. 25; v. 260; p. 619.
- Wrapping process. J. G. Jones. No. 1,313,234; Aug. 12; v. 265; p. 296.
- Wreath, Artificial. M. Kaplan. No. 1,320,693; Nov. 4; v. 268; p. 62.
- Wrench: *See*—
- |                       |                             |
|-----------------------|-----------------------------|
| Adjustable wrench.    | Pipe and nut wrench.        |
| Alligator-wrench.     | Power-wrench.               |
| Automatic wrench.     | Power-driven socket-wrench. |
| Combination-wrench.   | Quick-adjustable wrench.    |
| Double-speed wrench.  | Ratchet-wrench.             |
| Fire-hydrant wrench.  | Rotary wrench.              |
| Flange-wrench.        | Socket-wrench.              |
| Internal pipe-wrench. | Strap wrench.               |
| Monkey-wrench.        | Stud-bolt wrench.           |
| Pipe-wrench.          |                             |
- Wrench. A. C. Allan. No. 1,306,794; June 17; v. 263; p. 357.
- Wrench. J. G. Allmon. No. 1,291,633; Jan. 14; v. 258; p. 409.
- Wrench. T. D. Anagnostopoulos. No. 1,324,780; Dec. 16; v. 269; p. 402.
- Wrench. A. T. Anderson. No. 1,309,311; July 8; v. 264; p. 269.
- Wrench. J. Askins. No. 1,315,071; Sept. 2; v. 266; p. 110.
- Wrench. A. C. Barrett. No. 1,295,838; Mar. 4; v. 260; p. 4.
- Wrench. H. E. Bowen. No. 1,326,387; Dec. 30; v. 269; p. 753.
- Wrench. A. Bowman. No. 1,321,005; Nov. 4; v. 268; p. 122.
- Wrench. S. Bralove. No. 1,320,730; Nov. 4; v. 268; p. 69.
- Wrench. H. G. Brower. No. 1,321,187; Nov. 11; v. 268; p. 219.
- Wrench. W. A. Bryant. No. 1,317,546; Sept. 30; v. 266; p. 678.
- Wrench. F. M. Budlong. No. 1,316,875; Sept. 23; v. 266; p. 514.
- Wrench. J. E. Buker. No. 1,314,044; Aug. 26; v. 265; p. 498.
- Wrench. E. M. Bush. No. 1,293,696; Feb. 11; v. 259; p. 198.
- Wrench. E. B. Callaway. No. 1,326,022; Dec. 23; v. 269; p. 648.
- Wrench. J. T. Campbell. No. 1,310,056; July 15; v. 264; p. 443.
- Wrench. I. Church. No. 1,326,391; Dec. 30; v. 269; p. 754.
- Wrench. A. M. Cunha. No. 1,307,485; June 24; v. 263; p. 517.
- Wrench. H. and C. Dabney. No. 1,323,844; Dec. 2; v. 269; p. 116.
- Wrench. J. H. Davidson. No. 1,295,707; Feb. 25; v. 259; p. 724.
- Wrench. F. W. Drews. No. 1,311,801; July 29; v. 264; p. 830.
- Wrench. W. de Rooy. No. 1,305,887; June 3; v. 263; p. 124.
- Wrench. W. S. Du Charmé. No. 1,293,735; Feb. 11; v. 259; p. 207.
- Wrench. J. Evans. No. 1,290,530; Jan. 7; v. 258; p. 125.
- Wrench. R. B. Ferguson. No. 1,301,674; Apr. 22; v. 261; p. 751.
- Wrench. J. H. Fones. No. 1,302,027; Apr. 29; v. 261; p. 850.
- Wrench. J. A. Greig and W. F. Balkenol. No. 1,309,727; July 15; v. 264; p. 383.
- Wrench. E. Griesbaum. No. 1,319,701; Oct. 28; v. 267; p. 498.
- Wrench. C. H. Gunn. No. 1,320,137; Oct. 28; v. 267; p. 530.
- Wrench. W. Holmes. No. 1,303,666; May 13; v. 262; p. 250.
- Wrench. A. Holub. No. 1,322,240; Nov. 18; v. 268; p. 469.
- Wrench. W. F. Homrighausen. No. 1,320,230; Oct. 28; v. 267; p. 597.
- Wrench. W. A. Ingalls. No. 1,315,506; Sept. 9; v. 266; p. 198.



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- Wrench. A. Jansa. No. 1,316,447; Sept. 16; v. 266; p. 386.
- Wrench. C. M. Jones. No. 1,326,454; Dec. 30; v. 269; p. 766.
- Wrench. W. King. No. 1,316,044; Sept. 16; v. 266; p. 310.
- Wrench. F. M. Kleinc. No. 1,309,860; July 15; v. 264; p. 407.
- Wrench. C. E. Kleinkopf. No. 1,318,454; Oct. 14; v. 267; p. 213.
- Wrench. J. J. Lee. No. 1,291,940; Jan. 21; v. 258; p. 516.
- Wrench. L. D. Lewis. No. 1,312,406; Aug. 5; v. 265; p. 103.
- Wrench. J. Macecevic. No. 1,301,472; Apr. 22; v. 261; p. 713.
- Wrench. R. Mackin. No. 1,295,546; Feb. 25; v. 259; p. 687.
- Wrench. A. Malchow. No. 1,299,591; Apr. 8; v. 261; p. 250.
- Wrench. T. E. Miller. No. 1,298,997; Apr. 1; v. 261; p. 88.
- Wrench. M. Miller and A. D. Burg. No. 1,302,197; Apr. 29; v. 261; p. 881.
- Wrench. C. F. Morgan. No. 1,325,407; Dec. 16; v. 269; p. 517.
- Wrench. F. A. Moore. No. 1,303,709; May 13; v. 262; p. 258.
- Wrench. J. S. Morrison. No. 1,308,440; July 1; v. 264; p. 78.
- Wrench. W. D. Morrison. No. 1,306,553; June 10; v. 263; p. 280.
- Wrench. A. A. Moss. No. 1,307,592; June 24; v. 263; p. 535.
- Wrench. L. Murdock. No. 1,315,787; Sept. 9; v. 266; p. 248.
- Wrench. J. Nielander. No. 1,301,159; Apr. 22; v. 261; p. 652.
- Wrench. J. P. Nikonow. No. 1,302,834; May 6; v. 262; p. 67.
- Wrench. G. E. Nilson. No. 1,306,020; June 10; v. 263; p. 179.
- Wrench. D. J. Normoyle. No. 1,299,764; Apr. 8; v. 261; p. 291.
- Wrench. D. E. Norris. No. 1,322,722; Nov. 25; v. 268; p. 611.
- Wrench. R. N. Oysler. No. 1,326,526; Dec. 30; v. 269; p. 781.
- Wrench. E. F. Prather. No. 1,318,175; Oct. 7; v. 267; p. 98.
- Wrench. M. and P. M. Quint. No. 1,318,176; Oct. 7; v. 267; p. 98.
- Wrench. G. Riffard. No. 1,303,595; May 13; v. 262; p. 237.
- Wrench. R. A. Rosander. No. 1,299,510; Apr. 8; v. 261; p. 231.
- Wrench. L. S. Rosecrans. No. 1,322,623; Nov. 25; v. 268; p. 593.
- Wrench. E. Sanderlin. No. 1,318,301; Oct. 7; v. 267; p. 123.
- Wrench. J. F. Saylor. No. 1,312,456; Aug. 5; v. 265; p. 113.
- Wrench. J. A. Schanno. No. 1,295,072; Feb. 18; v. 259; p. 554.
- Wrench. H. D. Seitzman. No. 1,325,380; Dec. 16; v. 269; p. 512.
- Wrench. J. B. Skiff. No. 1,291,290; Jan. 14; v. 258; p. 310.
- Wrench. F. S. Smith. No. 1,291,214; Jan. 14; v. 258; p. 311.
- Wrench. R. J. Statham. No. 1,305,628; June 3; v. 263; p. 77.
- Wrench. P. Z. Steininger. No. 1,316,398; Sept. 16; v. 264; p. 377.
- Wrench. S. Stepanian. No. 1,321,776; Nov. 11; v. 268; p. 332.
- Wrench. H. Stoffel. No. 1,317,399; Sept. 30; v. 266; p. 650.
- Wrench. S. K. Sweitzer. No. 1,311,724; July 29; v. 264; p. 816.
- Wrench. W. Tankersley. No. 1,293,243; Feb. 4; v. 259; p. 62.
- Wrench. H. A. Welch. No. 1,310,641; July 22; v. 264; p. 582.
- Wrench. C. M. Wilkerson. No. 1,311,850; July 29; v. 264; p. 839.
- Wrench. J. S. Williams. No. 1,317,846; Oct. 7; v. 267; p. 36.
- Wrench. J. S. Williams. No. 1,317,847; Oct. 7; v. 267; p. 36.
- Wrench. L. O. Wright. No. 1,302,748; May 6; v. 262; p. 50.
- Wrench. C. A. Wright. No. 1,320,815; Nov. 4; v. 268; p. 86.
- Wrench and pliers, Combined. W. D. Arnot. No. 1,309,874; July 15; v. 264; p. 410.
- Wrench attachment. C. D. Firster. No. 1,307,193; June 17; v. 263; p. 429.
- Wrench attachment. C. F. Yunker. No. 1,294,857; Feb. 18; v. 259; p. 506.
- Wrench-handle. R. R. Coes. No. 1,311,110; July 22; v. 264; p. 668.
- Wrench-handle. R. R. Coes. No. 1,311,111; July 22; v. 264; p. 668.
- Wrench-head. W. C. Gay. No. 1,324,042; Dec. 9; v. 269; p. 198.
- Wrench-head, Adjustable. C. J. Coulter. No. 1,291,421; Jan. 14; v. 258; p. 360.
- Wrench head, External. L. A. Krupp. No. 1,315,314; Sept. 9; v. 266; p. 164.
- Wrench-heads, Machine for forming. E. C. Smith. No. 1,313,345; Aug. 19; v. 265; p. 332.
- Wrench in which no detrimental play can obtain. Serow. N. M. Bernardi. No. 1,313,575; Aug. 19; v. 265; p. 376.
- Wrench mechanism. R. F. Morgan. No. 1,324,405; Dec. 9; v. 269; p. 268.
- Wrench-operating mechanism. K. Dobrowolski. No. 1,295,284; Feb. 25; v. 259; p. 625.
- Wrench. Petcock. L. G. Hartdorn. No. 1,311,889; Aug. 5; v. 265; p. 7.
- Wrench, shifting-spanner, pipe-tongs, &c. J. E. Askman. No. 1,320,668; Nov. 4; v. 268; p. 57.
- Wrench tool, Multiple. A. D. Grover. No. 1,321,625; Nov. 11; v. 268; p. 303.
- Wrenches, Attachment for. O. H. Buck. No. 1,305,249; June 3; v. 263; p. 4.
- Wringer. See—  
Clothes-wringer. Mop-wringer.
- Wringer. E. A. Burmester. No. 1,323,348; Dec. 2; v. 269; p. 24.
- Wringer. G. W. Lewis. (Reissue.) No. 1,4683; July 8; v. 264; p. 326.
- Wringer. H. Roemer. No. 1,308,868; July 8; v. 264; p. 186.
- Wringer. H. F. Snyder. No. 1,316,601; Sept. 23; v. 266; p. 464.
- Wringer driving mechanism. H. H. Toll. No. 1,325,884; Dec. 23; v. 269; p. 623.
- Wringer-guard. W. H. Strauser. No. 1,315,613; Sept. 9; v. 266; p. 217.
- Wrinkles, Device for removing facial. H. L. Eager. No. 1,319,054; Oct. 21; v. 267; p. 353.
- Wrist-pin. W. Aab. No. 1,322,991; Nov. 25; v. 268; p. 662.
- Wrist-pin lock. E. W. Winans and A. J. Kinnucan. No. 1,321,349; Nov. 11; v. 268; p. 251.
- Writing and facilitating such writing, Device for. C. Häuselmann. No. 1,303,304; May 13; v. 262; p. 184.
- Writing, Device for teaching. G. T. Spaul. No. 1,324,182; Dec. 9; v. 269; p. 225.
- Writing-element illuminator. B. L. S. Perrin. No. 1,298,384; Mar. 25; v. 260; p. 653.
- Writing guide and rest. Roller. D. M. Hollins. No. 1,308,355; July 1; v. 264; p. 64.
- Writing-implement holder. J. W. Ferree. No. 1,304,171; May 20; v. 262; p. 380.
- Writing instrument. E. O. Baker. No. 1,319,556; Oct. 21; v. 267; p. 448.
- Writing instrument. V. Steelreath. No. 1,307,159; June 17; v. 263; p. 423.
- Writing instrument, Illuminated. L. F. Hart. No. 1,310,476; July 22; v. 264; p. 550.
- Writing-machine stand. S. A. Kitchener. No. 1,297,866; Mar. 18; v. 260; p. 518.
- Writing-machine, Stenographic. M. L. Masten. No. 1,295,782; Feb. 25; v. 259; p. 741.
- Writing-machines, Justifying lines in. E. M. von Marchthal. No. 1,307,068; June 17; v. 263; p. 408.
- Writing-machines, Re-aligning mechanism for. P. B. Tingler. No. 1,312,068; Aug. 5; v. 265; p. 40.
- Writing-pad. G. J. Franks. No. 1,313,944; Aug. 26; v. 265; p. 479.
- Writing-sheet and envelop, Combined. R. E. Altoonian. No. 1,317,537; Sept. 30; v. 266; p. 676.
- Writing-stand. F. F. Benson. No. 1,295,680; Feb. 25; v. 259; p. 718.
- X-ray apparatus. W. D. Coolidge. No. 1,310,061; July 15; v. 264; p. 444.
- X-ray apparatus, Film-holder for. H. F. Waite. No. 1,307,386; June 24; v. 263; p. 498.
- X-ray apparatus for dental use. W. H. Thwaites. No. 1,290,806; Jan. 7; v. 258; p. 191.
- X-ray-film container. A. W. Buck. No. 1,293,323; Feb. 4; v. 259; p. 82.
- X-ray or Röntgen-plates, films, or papers, Method used and material employed in manufacture of. A. Mutscheller. No. 1,315,324; Sept. 9; v. 266; p. 165.
- X-ray system. R. Varley. No. 1,309,494; July 8; v. 264; p. 302.
- X-ray tube. T. B. Rider. No. 1,310,714; July 22; v. 264; p. 594.
- X-ray-tube current-measuring system. H. F. Waite. No. 1,307,645; June 24; v. 263; p. 545.
- X-ray-tube holder and shield. H. F. Waite. No. 1,307,385; June 24; v. 263; p. 498.
- Xylophone. J. C. Deagan. No. 1,293,722; Feb. 11; v. 259; p. 204.
- Xylophone. J. C. Deagan. No. 1,293,723; Feb. 11; v. 259; p. 204.
- Xylophone. H. Welch. No. 1,323,132; Nov. 25; v. 268; p. 688.
- Yarn and making same, Textile. A. E. Meyer. No. 1,295,821; Feb. 25; v. 259; p. 750.

- Yarn-cleaner. R. G. Jennings. No. 1,301,133; Apr. 22; v. 261; p. 646.
- Yarn-guide. M. B. King. No. 1,316,452; Sept. 16; v. 266; p. 387.
- Yarn, Method of and apparatus for beaming. J. F. Doyle. No. 1,301,665; Apr. 22; v. 261; p. 749.
- Yarn or thread, Sized. E. W. Snyder. No. 1,290,795; Jan. 7; v. 258; p. 188.
- Yarn, Producing intermittently-dyed. F. Longthorne. No. 1,311,131; July 22; v. 264; p. 672.
- Yarn-reclaiming machine. H. E. Fish. No. 1,302,906; May 6; v. 262; p. 82.
- Yarn-singeing apparatus. D. Gravel. No. 1,325,891; Dec. 23; v. 269; p. 625.
- Yarn-speck remover. W. F. Moon. No. 1,325,528; Dec. 23; v. 269; p. 557.
- Yarn-spinning machine and method. L. W. Downes. No. 1,298,475; Mar. 25; v. 260; p. 673.
- Yarn-tension device. L. T. Houghton. No. 1,303,202; May 6; v. 262; p. 138.
- Yarn-tension device. L. T. Houghton. No. 1,303,320; May 13; v. 262; p. 187.
- Yarn-winder. M. G. Morrill. No. 1,322,812; Nov. 25; v. 268; p. 628.
- Yarns or threads of fibrous substances, Means for scouring. G. Bailey. No. 1,315,698; Sept. 9; v. 266; p. 232.
- Yeast and making same, Dry. G. F. Whitney. No. 1,306,569; June 10; v. 263; p. 282.
- Yielding supporting and vertically-guiding apparatus. W. O. Renkin. No. 1,308,370; July 1; v. 264; p. 66.
- Yohimbin-arsenic pharmaceutical product. W. Grüttefen. No. 1,305,462; June 3; v. 263; p. 44.
- Yoke and box, Meter. L. McNutt. No. 1,310,400; July 15; v. 264; p. 506.
- Yoke, Cow. A. L. Sedbrook. No. 1,304,388; May 20; v. 262; p. 422.
- Yoke, Draft. H. C. Buhoup. No. 1,306,402; June 10; v. 263; p. 252.
- Yoke, Draft. I. H. Milliken. No. 1,309,297; July 8; v. 264; p. 266.
- Yoke, Draft-gear. C. J. Nash. No. 1,292,358; Jan. 21; v. 258; p. 618.
- Yoke, Draft-gear. W. Wright. No. 1,291,338; Jan. 14; v. 258; p. 339.
- Yoke, Draw-bar. G. G. Floyd. No. 1,323,260; Dec. 2; v. 269; p. 7.
- Yoke fastening, Neck. J. M. Walsh. No. 1,318,420; Oct. 14; v. 267; p. 206.
- Yoke for draft-rigging and making the same. J. W. Dalman. No. 1,307,083; June 17; v. 263; p. 410.
- Yoke for oxen and cattle, Draft. C. McLaughlin. No. 1,307,914; June 24; v. 263; p. 594.
- Zinc arsenite, Producing. C. D. Vreeland. No. 1,296,344; Mar. 4; v. 260; p. 120.
- Zinc-bearing materials, Electrolytic refining of metallic. C. H. Aldrich and J. K. Bryan. No. 1,299,414; Apr. 8; v. 261; p. 209.
- Zinc by electrodeposition, Treatment of zinc-bearing ores for the recovery of. H. W. Gepp, D. Avery, R. H. Stevens, W. C. Snow, and W. M. Whitecotton. No. 1,322,104; Nov. 18; v. 263; p. 442.
- Zinc by electrolysis, Recovery of. R. H. Stevens. No. 1,322,071; Nov. 18; v. 263; p. 436.
- Zinc chlorid, Manufacturing of. O. W. Storey. No. 1,314,715; Sept. 2; v. 266; p. 46.
- Zinc extraction. H. L. Sulman and H. F. K. Picard. No. 1,295,080; Feb. 18; v. 259; p. 555.
- Zinc, Extraction of. R. H. Stewart, S. G. Blaylock, R. Vaughan, and J. K. Batchelder. No. 1,320,805; Nov. 4; v. 268; p. 84.
- Zinc-furnace, Vertical. F. Fiechtl. No. 1,291,643; Jan. 14; v. 258; p. 412.
- Zinc ore, Treating. D. B. Jones. No. 1,292,330; Jan. 21; v. 258; p. 611.
- Zinc ores, Treating. A. P. Craft. No. 1,295,857; Mar. 4; v. 260; p. 9.
- Zinc oxid, Manufacture of. F. G. Breyer, J. A. Singmaster, and A. E. Hall. No. 1,322,088; Nov. 18; v. 268; p. 440.
- Zinc oxid, Manufacture of. J. A. Singmaster, F. G. Breyer, and E. H. Bunce. No. 1,322,142; Nov. 18; v. 268; p. 450.
- Zinc oxid, Preparing pigment. L. E. Wemple. No. 1,292,976; Jan. 28; v. 258; p. 786.
- Zinc oxid, Production of. F. G. Breyer, A. E. Hall, and G. R. Waltz. No. 1,322,089; Nov. 18; v. 268; p. 440.
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- Zinc-retort residues, Treatment of. O. Spitzer and C. C. Conover. No. 1,315,349; Sept. 9; v. 266; p. 170.
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- Zither, Keyed. H. A. Ballard. No. 1,299,654; Apr. 8; v. 261; p. 264.
- Zither, Keyed. J. R. Green. No. 1,299,704; Apr. 8; v. 261; p. 276.
- Zither, Keyed. J. Krawczyk. No. 1,310,024; July 15; v. 264; p. 437.
- Zither, Keyed. C. H. Marx. No. 1,304,997; May 27; v. 262; p. 576.
- Zithers, Bass attachment for. W. A. Copeland. No. 1,320,532; Nov. 4; v. 268; p. 33.
- Zithers, Playing attachment for. H. A. Ballard. No. 1,314,117; Aug. 26; v. 265; p. 512.
- Zithers, Playing-guide for. P. F. Richter. No. 1,320,571; Nov. 4; v. 268; p. 40.
- Zone-indicator. H. H. Kolloster. No. 1,301,273; Apr. 22; v. 261; p. 674.

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- Advertising display-case. C. D. Oversmith. No. 53,688; Aug. 5; v. 265; p. 126.
- Adz. A. Marusak. No. 54,326; Dec. 23; v. 269; p. 680.
- Aeroplane-body. E. Salminen. No. 53,137; Mar. 25; v. 260; p. 714.
- Air-blast cleaning device. G. B. Pickop. No. 53,399; June 3; v. 263; p. 144.
- Alloy-scoop. F. L. Grier. No. 53,904; Oct. 7; v. 267; p. 137.
- Amalgam-remover. F. L. Grier. No. 53,903; Oct. 7; v. 267; p. 137.
- Anchor. C. H. Boyles. No. 53,703; Aug. 19; v. 265; p. 435.
- Aquarium. M. Stein. No. 53,719; Aug. 19; v. 265; p. 437.
- Aquarium and fountain. M. Stein. No. 53,718; Aug. 19; v. 265; p. 437.
- Article of manufacture. L. V. Aronson. No. 53,725; Aug. 26; v. 265; p. 584.
- Article of manufacture. C. D. Barrett. No. 53,061; Mar. 11; v. 260; p. 372.
- Article of manufacture. M. Bauman. No. 53,351; May 27; v. 262; p. 623.
- Article of manufacture. E. C. Blum. No. 53,192; Apr. 15; v. 261; p. 604.
- Article of manufacture. J. C. Harris. No. 53,243; Apr. 29; v. 261; p. 941.
- Article of manufacture. K. A. Kelly. No. 53,370; May 27; v. 262; p. 626.
- Article of manufacture. T. S. Kreider. No. 52,993; Feb. 11; v. 259; p. 359.
- Article of manufacture. R. C. Lafferty. No. 54,323; Dec. 23; v. 269; p. 679.
- Article of manufacture. H. E. Nock. No. 54,328; Dec. 23; v. 269; p. 680.
- Article of manufacture. M. Oestreicher. No. 53,602; July 15; v. 264; p. 516.
- Article of manufacture. G. F. Parker. No. 54,331; Dec. 23; v. 269; p. 681.
- Article of manufacture. F. H. Patrick. No. 53,206; Apr. 15; v. 261; p. 606.
- Article of manufacture. J. S. Post. No. 53,317; May 13; v. 262; p. 289.
- Article of manufacture. T. P. Strittmatter. No. 54,147; Nov. 4; v. 268; p. 164.
- Article of manufacture. C. J. Tonry. No. 53,185; Apr. 8; v. 261; p. 395.
- Article of manufacture. H. Wearne. No. 53,262; Apr. 29; v. 261; p. 944.
- Ash-can, garbage-can, or like receptacle. H. J. Schaffer. No. 53,691; Aug. 5; v. 265; p. 127.
- Ash-receiver. S. A. Cirkinian. No. 53,029; Mar. 4; v. 260; p. 177.
- Asparagus-server, &c. E. M. Underhill. No. 54,150; Nov. 4; v. 268; p. 164.
- Automobile. B. M. Hardin. No. 54,086; Nov. 4; v. 268; p. 153.
- Automobile. C. T. Silver. No. 54,134; Nov. 4; v. 268; p. 162.
- Automobile and other vehicles, Radiator-frame for. J. R. Way. No. 53,228; Apr. 22; v. 261; p. 780.
- Automobile-body. G. G. Behn. No. 53,979; Nov. 4; v. 268; p. 136.
- Automobile-body. B. Burstein. No. 53,654; July 29; v. 264; p. 843.
- Automobile-body. J. W. Chordas. No. 54,240; Dec. 9; v. 269; p. 340.
- Automobile-body. C. S. Crawford. No. 54,200; Nov. 18; v. 268; p. 523.
- Automobile-body. C. W. McKinley and H. H. Goodall. No. 53,927; Oct. 7; v. 267; p. 141.
- Automobile-body. W. J. P. Moore. Nos. 53,338-40; May 20; v. 262; pp. 453-4.
- Automobile-body. J. W. Sheridan. No. 53,380; May 27; v. 262; p. 628.
- Automobile-body. B. W. Twyman. No. 53,722; Aug. 19; v. 265; p. 438.



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- Automobile body, hood, and radiator, Combined. A. C. Barley. No. 53,652; July 29; v. 264; p. 843.
- Automobile-body, Roof for an. O. W. Heinrich. No. 53,441; June 17; v. 263; p. 458.
- Automobile bolt and nut box. A. J. Sommer. No. 53,107; Mar. 18; v. 260; p. 546.
- Automobile-heater. E. H. Heller. No. 53,124; Mar. 25; v. 260; p. 711.
- Automobile-hood. C. W. McKinley. No. 53,664; July 29; v. 264; p. 845.
- Automobile, Juvenile. L. L. Custer. No. 53,891; Oct. 7; v. 267; p. 134.
- Automobile-lock or similar article of manufacture, Handle for an. F. E. Greene. No. 53,580; July 15; v. 264; p. 512.
- Automobile-lock or similar article of manufacture, Plate for an. F. E. Greene. No. 53,582; July 15; v. 264; p. 513.
- Automobile or similar article of manufacture, Curtain-fixture for an. F. E. Greene. No. 53,581; July 15; v. 264; p. 513.
- Automobile or similar article of manufacture, Rim for a dome-light or a speedometer for an. F. E. Greene. No. 53,585; July 15; v. 264; p. 513.
- Automobile or similar article of manufacture, Rim for a speedometer or a dome-light for an. F. E. Greene. No. 53,583; July 15; v. 264; p. 513.
- Automobile or similar article of manufacture, Vase for an. F. E. Greene. No. 53,586; July 15; v. 265; p. 513.
- Automobile-radiator hood. G. W. Kerr. No. 53,714; Aug. 19; v. 265; p. 437.
- Automobile-radiator ornament. J. H. Kendig. No. 53,371; May 27; v. 262; p. 626.
- Automobile-radiator ornament. A. E. Wolter. No. 53,759; Aug. 26; v. 265; p. 589.
- Automobile running-boards, Mat for. J. T. Hayne. No. 53,737; Aug. 26; v. 265; p. 586.
- Automobile-seat or similar article of manufacture, Handle for an. F. E. Greene. No. 53,584; July 15; v. 264; p. 513.
- Automobile-signal, Electric. H. J. Hankee. No. 53,164; Apr. 1; v. 261; p. 186.
- Automobile steering-post support. W. N. Onderdonk. No. 53,517; July 8; v. 264; p. 232.
- Automobile steering-wheel. E. E. Hardy. No. 53,656; July 29; v. 264; p. 843.
- Automobile-trimming and the like. F. E. Greene. No. 53,300; May 13; v. 262; p. 287.
- Automobile wind-shield. A. C. Lillie. No. 53,923; Oct. 7; v. 267; p. 140.
- Automobiles, Running-board for. J. T. Hayne. No. 53,736; Aug. 26; v. 265; p. 586.
- Autotrailer. C. A. Behlen. No. 53,328; May 20; v. 262; p. 451.
- Autotruck, Electric-welding. W. E. Symons. No. 53,385; May 27; v. 262; p. 629.
- Babbitt metal, Cake of. L. M. Brile and L. Lapidus. No. 53,484; July 8; v. 264; p. 327.
- Badge. F. Giesenhaus. No. 53,297; May 13; v. 262; p. 286.
- Badge. T. Heath. No. 53,175; Apr. 8; v. 261; p. 393.
- Badge. L. Markowitz. No. 53,076; Mar. 11; v. 260; p. 374.
- Badge. L. Markowitz. No. 53,311; May 13; v. 262; p. 288.
- Badge. O. D. May and J. H. Malone. No. 53,312; May 13; v. 262; p. 289.
- Badge. M. Michael. Nos. 53,081-2; Mar. 11; v. 260; p. 375.
- Badge. M. Michael. No. 53,181; Apr. 8; v. 261; p. 394.
- Badge. B. A. Stump. No. 52,998; Feb. 11; v. 259; p. 359.
- Badge. B. A. Stump. No. 53,057; Mar. 4; v. 260; p. 182.
- Badge. B. A. Stump. No. 53,868; Sept. 16; v. 266; p. 427.
- Badge. B. A. Stump. No. 53,948; Oct. 7; v. 267; p. 144.
- Badge, &c. J. B. Marshall. No. 54,106; Nov. 4; v. 268; p. 157.
- Badge, button, or similar article of manufacture. B. Simon. Nos. 53,255-7; Apr. 29; v. 261; p. 943.
- Badge, button, or similar article. A. E. Templeman. No. 53,539; July 8; v. 264; p. 336.
- Badge, button, pin, or article of similar nature. F. C. Brenda. No. 53,194; Apr. 15; v. 261; p. 604.
- Badge, emblem, &c. R. E. Shanley. No. 54,335; Dec. 23; v. 269; p. 681.
- Badge, emblem, button, pin, ring-top, watch-charm, or similar article. F. B. Hollenbeck. No. 53,739; Aug. 26; v. 265; p. 586.
- Badge, emblem, or similar article of manufacture. G. E. Frater. No. 53,733; Aug. 26; v. 265; p. 585.
- Badge, Military-service. H. B. Myers. No. 53,458; June 17; v. 263; p. 461.
- Badge or button. L. D. Lewis and J. R. Sheppard. Nos. 53,321-2; May 13; v. 262; p. 290.
- Badge or emblem. H. Heilbron. No. 53,849; Sept. 16; v. 266; p. 424.
- Badge or poster, Patriotic. C. Mergner, Jr. No. 53,928; Oct. 7; v. 267; p. 141.
- Badge or similar article of manufacture. E. A. Klapp. No. 53,452; June 17; v. 263; p. 460.
- Badge, pendant, or like article of jewelry. C. H. Spencer. No. 52,997; Feb. 11; v. 259; p. 359.
- Badge, Post service-. R. M. Berrent. No. 53,982; Nov. 4; v. 268; p. 136.
- Badge, Souvenir-. S. A. Claggett and S. Devall. No. 53,480; July 8; v. 264; p. 327.
- Bag. E. S. Close. No. 52,841; Jan. 7; v. 258; p. 203.
- Bag for containing merchandise. J. H. Wilkins. No. 53,723; Aug. 19; v. 265; p. 438.
- Bag-frame. W. T. Goldsmith. No. 58,629; July 22; v. 264; p. 676.
- Bag-frame. C. C. Holden. Nos. 53,414-15; June 10; v. 263; p. 308.
- Bag frame, Hand-. L. Jacobs. Nos. 62,632-4; July 22; v. 264; p. 677.
- Bag frame, Hand-. G. Montroni. No. 53,275; May 6; v. 262; p. 144.
- Bag frame, Hand-. J. Scalabrino. Nos. 53,642-3; July 22; v. 264; p. 678.
- Bag-frames, purse-frames, and similar articles, Member for. W. Turton. No. 53,647; July 22; v. 264; p. 679.
- Bag, Shopping-. E. A. Finn. No. 53,034; Mar. 4; v. 260; p. 178.
- Bait, Artificial. J. W. Reynolds. No. 53,610; July 15; v. 264; p. 517.
- Bait, Artificial. W. A. Stolley. No. 52,925; Jan. 28; v. 258; p. 791.
- Bank-note. A. S. Major. No. 52,849; Jan. 7; v. 258; p. 205.
- Bank, Savings-. A. Goldberg. No. 53,579; July 15; v. 264; p. 512.
- Banner. C. J. Ward. No. 53,950; Oct. 7; v. 267; p. 144.
- Banner, flag, pennant, sign, &c. L. A. Ames. No. 53,281; May 13; v. 262; p. 284.
- Banner, flag, pennant, sign, emblem, or article of a similar nature. M. Lehr. No. 53,507; July 8; v. 264; p. 331.
- Basin, Toilet-. W. C. Hill. No. 54,089; Nov. 4; v. 268; p. 154.
- Basket, Clothes-. J. Swagzdes. No. 53,323; May 13; v. 262; p. 290.
- Batteries, Connector for storage. T. R. Cook. No. 54,065; Nov. 4; v. 268; p. 150.
- Bed-pan. D. Hogan. No. 53,443; June 17; v. 263; p. 458.
- Bed-pan. W. Thompson. No. 54,149; Nov. 4; v. 268; p. 164.
- Bedspread. M. Oestreicher. No. 53,601; July 15; v. 264; p. 516.
- Bedstead. L. Rorimer. No. 53,105; Mar. 18; v. 260; p. 546.
- Bicycle, Child's. S. L. Smith. No. 54,141; Nov. 4; v. 268; p. 163.
- Billiard-cue. O. Carlson and H. Pick. No. 52,945; Feb. 4; v. 259; p. 161.
- Bird-cage and aquarium, Combined. A. Syrocki. No. 53,157; Apr. 1; v. 261; p. 185.
- Boiler. A. M. Mertzanoff. No. 53,663; July 29; v. 264; p. 845.
- Blood-pressure gage. A. Roesch. No. 53,023; Feb. 25; v. 259; p. 757.
- Blouse, Woman's. G. T. Bomgardner. No. 53,234; Apr. 29; v. 261; p. 939.
- Book-cover, calendar, or similar article. M. Spiegel. No. 53,382; May 27; v. 262; p. 628.
- Books or the like, Movable holder for. H. H. Young. No. 52,904; Jan. 14; v. 258; p. 431.
- Boots, shoes, or similar articles, Tap for. E. J. Emery. No. 53,732; Aug. 26; v. 265; p. 585.
- Bottle. H. B. Christian. No. 54,241; Dec. 9; v. 269; p. 340.
- Bottle. W. R. Leach. No. 53,337; May 20; v. 262; p. 453.
- Bottle. C. S. McCoy. No. 54,219; Nov. 18; v. 268; p. 526.
- Bottle. O. O. R. Schwidetzky. No. 53,666; July 29; v. 264; p. 845.
- Bottle. H. Vaughn. No. 53,324; May 13; v. 262; p. 290.
- Bottle-cap. S. Swanson. No. 53,092; Mar. 11; v. 260; p. 377.
- Bottle cork or stopper. A. H. S. Ward. No. 54,294; Dec. 9; v. 269; p. 350.
- Bottle holder, Milk-. H. J. Kimmel. No. 53,853; Sept. 16; v. 266; p. 424.
- Bottle indicator, Poison-. M. J. Roberson. No. 52,965; Feb. 4; v. 259; p. 165.
- Bottle or jar. F. O. Green. No. 52,952; Feb. 4; v. 259; p. 162.
- Bottle or jar. L. J. Taylor. No. 53,694; Aug. 5; v. 265; p. 127.
- Bottle, Poison-. F. Rustant. No. 53,614; July 15; v. 264; p. 518.
- Bottle protector, Milk-. G. Roberts. No. 53,182; Apr. 8; v. 261; p. 394.
- Bottle, Sheet-metal hot-water. A. E. Wooden. No. 53,098; Mar. 11; v. 260; p. 378.
- Bottle-stopper. T. M. Moore. No. 53,746; Aug. 26; v. 265; p. 587.

- Bottle-stopper. F. Rustant. No. 53,428; June 10; v. 263; p. 310.
- Bottle-stopper. F. Rustant. Nos. 53,467-8; June 17; v. 263; p. 462.
- Buttle top, Siphon-. E. Furst. No. 52,949; Feb. 4; v. 259; p. 162.
- Bottle top, Siphon-. E. Furst. No. 54,251; Dec. 9; v. 269; p. 342.
- Bowl, Drinking-fountain. H. W. Taylor. No. 53,227; Apr. 22; v. 261; p. 780.
- Bowl, Glass. M. A. Smith. Nos. 53,941-2; Oct. 7; v. 267; p. 143.
- Bowl-hanger. T. Dahl. No. 53,002; Feb. 18; v. 259; p. 560.
- Box. P. Hall. No. 54,211; Nov. 18; v. 268; p. 525.
- Box. E. Hoffman. No. 53,199; Apr. 15; v. 261; p. 605.
- Box. W. C. Kitt. No. 53,506; July 8; v. 264; p. 331.
- Box. M. Peruzzi. No. 54,222; Nov. 18; v. 268; p. 526.
- Box for electrical-conductor conduits, Corner and twist. H. G. Knoderer and C. R. Hubbard. No. 53,271; May 6; v. 262; p. 144.
- Box for electrical conductors, Combined signal and outlet. E. F. Hamill. No. 53,905; Oct. 7; v. 267; p. 137.
- Box, Novelty-. J. F. Hanson. No. 53,499; July 8; v. 264; p. 330.
- Box or similar article, Puff-. A. H. Staf. No. 54,358; Dec. 30; v. 269; p. 853.
- Box, Outlet-. J. C. Boyton. No. 52,944; Feb. 4; v. 259; p. 161.
- Box, Powder-. H. J. Woodward. No. 53,624; July 15; v. 264; p. 519.
- Box, Salt-. A. Cuporak. No. 54,307; Dec. 23; v. 269; p. 676.
- Bracelet, watch-fob, or vest-chain. J. M. Fisher. No. 53,035; Mar. 4; v. 260; p. 178.
- Bracket. H. G. Fitz Gerald. No. 53,679; Aug. 5; v. 265; p. 125.
- Bracket-back. T. Dahl. No. 53,004; Feb. 18; v. 259; p. 560.
- Brake. N. Stanfa. No. 53,618; July 15; v. 264; p. 518.
- Brocade. J. H. Bunting. No. 53,435; July 8; v. 264; p. 327.
- Brocade. J. H. Bunting. Nos. 53,559-60; July 15; v. 264; p. 509.
- Brooch, badge, button, insignia, emblem, pin, or similar article of manufacture. M. E. Goldberger. No. 53,198; Apr. 15; v. 261; p. 605.
- Brooch, button, badge, stick-pin, sign, emblem, flag, pendant, or article of a similar nature. A. J. F. Sharer. No. 52,924; Jan. 28; v. 258; p. 791.
- Brush, Lather-. M. B. Behrman. No. 53,980; Nov. 4; v. 268; p. 136.
- Brush or similar article, Cloth-. A. H. Staf. No. 54,357; Dec. 30; v. 269; p. 853.
- Brush, Tooth-. C. W. Lloyd. No. 53,453; June 17; v. 263; p. 460.
- Bucket. E. A. Edwards. No. 53,438; June 17; v. 263; p. 457.
- Buckle, Belt-. I. L. Marienthal. No. 53,598; July 15; v. 264; p. 515.
- Buffet. S. Moskowitz. No. 53,457; June 17; v. 263; p. 460.
- Buffet or similar article. H. Silver. Nos. 53,211-12; Apr. 15; v. 261; p. 607.
- Burglar-alarm casing. O. Jacobson. No. 54,093; Nov. 4; v. 268; p. 155.
- Button. A. T. Harrell. No. 53,036; Mar. 4; v. 260; p. 178.
- Button. W. J. Klein. No. 53,920; Oct. 7; v. 267; p. 139.
- Button. J. S. Monaghan. No. 53,134; Mar. 25; v. 260; p. 713.
- Button. C. J. Rauch. No. 53,376; May 27; v. 262; p. 627.
- Button. W. F. Soudy. Nos. 53,344-5; May 20; v. 262; pp. 454-5.
- Button. B. Veit. No. 53,648; July 22; v. 264; p. 679.
- Button. R. Wiltein. No. 53,871; Sept. 16; v. 266; p. 427.
- Button, badge, emblem, &c. S. Fuchs. No. 54,076; Nov. 4; v. 268; p. 152.
- Button badge, medal, emblem, or watchcase. J. B. d'Amaral. No. 53,118; Mar. 25; v. 260; p. 710.
- Button, badge, pin, &c. W. Holstein. No. 53,268; May 6; v. 262; p. 143.
- Button, badge, pin, or other similar article. E. M. Beatty. No. 52,943; Feb. 4; v. 259; p. 161.
- Button, Collar-. J. W. Barger. No. 53,977; Nov. 4; v. 268; p. 136.
- Button, Collar-. W. M. Isaacs. No. 53,039; Mar. 4; v. 260; p. 179.
- Button-display card. A. D. Josephson. No. 53,202; Apr. 15; v. 261; p. 605.
- Button, fob, ring, or similar article of jewelry, Lapel-. D. S. Dunham. No. 53,895; Oct. 7; v. 267; p. 135.
- Button, League-. G. H. Griffith. No. 53,365; May 27; v. 262; p. 626.
- Button or badge. R. H. Weimer. No. 53,650; July 22; v. 264; p. 679.
- Button or emblem. G. S. Wheat. No. 53,326; May 13; v. 262; p. 291.
- Button, Service-. L. Bartelmeh. No. 53,482; July 8; v. 264; p. 327.
- Button, Service-. E. Isakson. No. 53,446; June 17; v. 263; p. 459.
- Cabinet. G. A. Zimmernan. No. 54,297; Dec. 9; v. 269; p. 351.
- Cabinet, Display-. J. L. Flannery, Jr. Nos. 52,869-70; Jan. 14; v. 258; p. 425.
- Cabinet, Phonograph-. E. C. Cook. No. 53,628; July 22; v. 264; p. 676.
- Cabinet, Phonograph-. E. C. Cook. No. 54,198; Nov. 18; v. 268; p. 523.
- Cabinet, Phonograph-. M. Davis. No. 53,570; July 15; v. 264; p. 511.
- Cabinet, Phonograph-. O. C. De Selms. No. 54,201; Nov. 18; v. 268; p. 523.
- Cabinet, Phonograph-. F. A. Dennett and W. H. Thommen. Nos. 52,843-4; Jan. 7; v. 258; p. 204.
- Cabinet, Phonograph-. A. L. Fitch. No. 53,362; May 27; v. 262; p. 625.
- Cabinet, Phonograph-. W. A. French. Nos. 52,913-14; Jan. 28; v. 258; p. 789.
- Cabinet, Phonograph-. F. L. Steger. No. 54,184; Nov. 11; v. 268; p. 340.
- Cabinet, Phonograph-. J. G. Willeke. No. 54,228; Nov. 18; v. 268; p. 527.
- Cabinet, Phonograph-. J. Wolff. No. 53,097; Mar. 11; v. 260; p. 378.
- Cabinet, Sewing-machine. W. C. Free. Nos. 52,873-7; Jan. 14; v. 258; p. 426.
- Cabinet, Sewing-machine. W. C. Free. Nos. 53,196-7; Apr. 15; v. 261; p. 604.
- Cake mixer, beater, turner, lifter, and measuring-spoon, Combination. R. C. Hamill. No. 54,164; Nov. 11; v. 268; p. 337.
- Cake-turner or similar kitchen utensil. J. L. Sommer and T. Harding. No. 53,054; Mar. 4; v. 260; p. 181.
- Calendar holder, Loose-leaf pad-. F. A. Weeks. No. 53,346; May 20; v. 262; p. 455.
- Calendar, Perpetual. B. M. Harrison. No. 53,500; July 8; v. 264; p. 330.
- Can. R. P. Mosson. No. 53,665; July 29; v. 264; p. 845.
- Can. F. J. Tone. No. 53,094; Mar. 11; v. 260; p. 377.
- Can-opener. O. Katzenberger. No. 53,917; Oct. 7; v. 267; p. 139.
- Can or similar receptacle, Sifter-top. M. H. Connor. No. 53,330; May 20; v. 262; p. 452.
- Can or similar receptacle, Sifter-top. M. H. Connor. No. 53,674; Aug. 5; v. 265; p. 124.
- Can or similar receptacle, Sifter-top. M. H. Connor. Nos. 53,886-8; Oct. 7; v. 267; pp. 133-4.
- Can or similar receptacle, Sifter-top. L. Gerhardt. No. 53,412; June 10; v. 263; p. 307.
- Can or similar receptacle, Sifter-top. L. Gerhardt. No. 53,496; July 8; v. 264; p. 329.
- Can or similar receptacle, Sifter-top. L. Gerhardt. No. 53,901; Oct. 7; v. 267; p. 136.
- Can-top. F. S. Hyatt. No. 53,201; Apr. 15; v. 261; p. 605.
- Candelabrum. S. H. Leavenworth. Nos. 53,307-8; May 13; v. 262; p. 288.
- Candle. C. J. Messer. No. 53,043; Mar. 4; v. 260; p. 180.
- Candle. C. J. Messer. No. 53,077; Mar. 11; v. 260; p. 375.
- Candle. H. H. Will. No. 53,404; June 3; v. 263; p. 145.
- Candy-box. A. T. Harrell. No. 53,017; Feb. 25; v. 259; p. 756.
- Candy, chocolate, or confection, Molded. C. F. Haug. Nos. 54,212-13; Nov. 18; v. 268; p. 525.
- Candy or confectionery, Bar or cake of. R. S. Manus. No. 53,422; June 10; v. 263; p. 309.
- Candy tablet or similar article. J. F. Hollywood. No. 53,657; July 29; v. 264; p. 843.
- Cane, umbrella, whip, or swagger-stick handle. J. W. Blyth. No. 53,193; Apr. 15; v. 261; p. 604.
- Canister or similar article. G. C. Wurthmann. No. 53,264; Apr. 29; v. 261; p. 944.
- Cap, Peak-. R. Carewell. No. 53,288; May 13; v. 262; p. 285.
- Car body, Package-delivery-. R. G. Pilkington. No. 53,400; June 3; v. 263; p. 145.
- Car, Child's. H. G. Hogg. No. 53,125; Mar. 25; v. 260; p. 712.
- Car, Child's. E. H. Pendleton. No. 53,934; Oct. 7; v. 267; p. 142.
- Car, Lock for the trap-door of a vestibule railway-. L. F. McNally. No. 52,852; Jan. 7; v. 258; p. 205.
- Cars, Latch member for locks for trap-doors of vestibule railway-. L. F. McNally. No. 52,851; Jan. 7; v. 258; p. 205.
- Carbonator, Counter-. G. E. Stahl. No. 53,867; Sept. 16; v. 266; p. 427.
- Carbureter adjuster-dial. H. N. Whittelsey. No. 53,169; Apr. 1; v. 261; p. 187.
- Card, Cut-out. T. Carter. No. 52,839; Jan. 7; v. 258; p. 203.
- Card, Game-. H. V. A. Loring. Nos. 54,216-17; Nov. 18; v. 268; p. 526.
- Card, Playing-. A. Gildewell. No. 52,987; Feb. 11; v. 259; p. 353.



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- Card-receptacle. S. M. Stein and R. H. Orkin. No. 53,945; Oct. 7; v. 267; p. 144.
- Cards, Pack of playing-. A. Glidewell. No. 52,986; Feb. 11; v. 259; p. 357.
- Cards, Set of playing-. A. Glidewell. No. 52,988; Feb. 11; v. 259; p. 358.
- Cards, Set of playing-. J. C. Gaffney. No. 53,576; July 15; v. 264; p. 512.
- Carriage attachment, Baby-. H. L. Simpson. No. 53,106; Mar. 18; v. 260; p. 546.
- Carriage body, Doll or baby. L. D. Pangborn. No. 53,523; July 8; v. 264; p. 333.
- Carriage chassis, Baby-. G. E. O'Hearn. No. 53,932; Oct. 7; v. 267; p. 141.
- Carriage-rattle. L. Morse. No. 53,205; Apr. 15; v. 261; p. 605.
- Carriage, Running-gear of a baby-. G. E. O'Hearn. No. 53,933; Oct. 7; v. 267; p. 142.
- Cart, Child's. A. C. Gilbert. No. 54,205; Nov. 18; v. 268; p. 524.
- Carton. P. K. Wrigley. No. 53,724; Aug. 19; v. 265; p. 438.
- Casing for a strip-punching apparatus. B. M. Shanklin. No. 53,938; Oct. 7; v. 267; p. 142.
- Casing, Suction-cleaner. W. V. Orr. No. 52,898; Jan. 14; v. 258; p. 430.
- Casket-handle. H. W. Hodgetts. Nos. 54,258-9; Dec. 9; v. 269; p. 344.
- Casket-handle lug. G. R. Bailey. No. 53,016; Feb. 25; v. 259; p. 756.
- Certificate. E. M. Mason. No. 52,850; Jan. 7; v. 258; p. 205.
- Chair and desk, Combined. A. H. Thompson. No. 54,187; Nov. 11; v. 268; p. 341.
- Chandelier. V. F. von Lossberg. No. 53,186; Apr. 8; v. 261; p. 305.
- Chandelier. G. W. Wertman. No. 53,621; July 15; v. 264; p. 519.
- Chart. J. E. Hunsaker. No. 53,631; July 22; v. 264; p. 677.
- Chemist's mortar. J. H. Hurr, Jr. No. 52,957; Feb. 4; v. 259; p. 163.
- Christmas bell. H. and F. Wischhusen. No. 53,952; Oct. 7; v. 267; p. 145.
- Cigarette-holder. J. E. Hill. No. 53,267; May 6; v. 262; p. 143.
- Cigarette-paper case. T. J. Kaniff. No. 53,367; May 27; v. 262; p. 626.
- Clevis, Double. M. Clemens. No. 53,408; June 10; v. 263; p. 306.
- Clock and watch case. A. M. McMillan. No. 54,111; Nov. 4; v. 268; p. 158.
- Clock-dial. L. E. Macomber. No. 54,105; Nov. 4; v. 268; p. 157.
- Clock-stand. J. H. Wilson. No. 54,295; Dec. 9; v. 269; p. 350.
- Clocks, pictures, or the like, Holder or frame for. S. Heath. No. 53,906; Oct. 7; v. 267; p. 137.
- Closet-bowl. E. T. Webster. No. 52,863; Jan. 7; v. 258; p. 207.
- Clothes-hanger. E. W. Boskowitz. No. 53,028; Mar. 4; v. 260; p. 177.
- Clothes rack and stand. A. Kinder. No. 53,451; June 17; v. 263; p. 459.
- Clothes-wringers, Pressure-screw for. A. E. Holaday. No. 53,966; Oct. 14; v. 267; p. 326.
- Coat. A. Sollen. No. 54,283; Dec. 9; v. 269; p. 348.
- Coat pattern, Sack-. I. Lewis. No. 53,132; Mar. 25; v. 260; p. 713.
- Coat pattern, Top-. I. Lewis. No. 53,131; Mar. 25; v. 260; p. 713.
- Coin-receiver. G. W. Yates. No. 53,954; Oct. 7; v. 267; p. 145.
- Coin, Token-. W. Pfum. No. 53,462; June 17; v. 263; p. 461.
- Collar. J. Perlstein. No. 53,046; Mar. 4; v. 260; p. 180.
- Collar-stiffener. M. W. Ean. No. 53,896; Oct. 7; v. 267; p. 135.
- Comb. C. Warner. No. 54,151; Nov. 4; v. 268; p. 164.
- Compass casing, Pocket-. C. H. Colvin. No. 53,889; Oct. 7; v. 267; p. 134.
- Compression, combustion, and spark-plug tester. L. R. Martell. No. 53,686; Aug. 5; v. 265; p. 126.
- Condiment-holder. F. Zagmester. No. 52,864; Jan. 7; v. 258; p. 207.
- Conduit-clamp or similar article. H. W. Pleister. No. 53,276; May 6; v. 262; p. 145.
- Conduits, Flat elbow-base for fittings for electrical-conductor. C. R. Hubbard and H. G. Knoderer. No. 52,953; Feb. 4; v. 259; p. 162.
- Conduits, Flat elbow-cap for fittings for electrical-conductor. C. R. Hubbard and H. G. Knoderer. No. 52,954; Feb. 4; v. 259; p. 163.
- Conduits, T-base for fittings for electrical-conductor. C. R. Hubbard and H. G. Knoderer. No. 52,955; Feb. 4; v. 259; p. 163.
- Conduits, T-cap for fittings for electrical-conductor. C. R. Hubbard and H. G. Knoderer. No. 52,956; Feb. 4; v. 259; p. 163.
- Confection. H. L. Fritz. No. 54,074; Nov. 4; v. 268; p. 152.
- Confection-container. W. F. Hitzeman. No. 53,909; Oct. 7; v. 267; p. 138.
- Container. W. Ryser. No. 53,318; May 13; v. 262; p. 290.
- Cooking kit. I. C. Popper. No. 53,155; Apr. 1; v. 261; p. 185.
- Cooking utensils, Combination set of. E. Brown. No. 53,879; Oct. 7; v. 267; p. 132.
- Corset. D. Hirschfeld. No. 52,915; Jan. 28; v. 258; p. 789.
- Counter, Help-self. J. Calvin. No. 54,239; Dec. 9; v. 269; p. 340.
- Crib. E. V. Kletschka. No. 53,854; Sept. 16; v. 266; p. 424.
- Crochet-hook. W. H. Stansbery. No. 52,973; Feb. 4; v. 259; p. 166.
- Crocheted or knitted wrap. J. Pearl. No. 52,855; Jan. 7; v. 258; p. 206.
- Crutch. U. Kornsteln. No. 53,968; Oct. 14; v. 267; p. 327.
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- Cup, Loving-. K. H. Ober. No. 53,857; Sept. 16; v. 266; p. 425.
- Curtain, Lace. P. B. Worthington. No. 54,115; Nov. 4; v. 268; p. 158.
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- Cycle frame, Motor-. W. S. Harley. No. 53,150; Apr. 1; v. 261; p. 184.
- Cyclomobile body and seat. C. F. Hamel. No. 54,316; Dec. 23; v. 269; p. 678.
- Decarbonizer. O. Cutting. No. 53,892; Oct. 7; v. 267; p. 135.
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- Dental carving instrument. D. A. Zurbrigg. No. 53,956; Oct. 7; v. 267; p. 145.
- Dental-equipment pedestal. W. H. Hendrickson. No. 53,590; July 15; v. 264; p. 514.
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- Dental plate, Individual. J. G. Hollingsworth. No. 53,366; May 27; v. 262; p. 626.
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- Display device. F. W. Everett. No. 53,361; May 27; v. 262; p. 625.
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- Display-jar. D. A. Jenkins. No. 54,214; Nov. 18; v. 268; p. 525.
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- Display-stand. O. B. Carson. No. 53,567; July 15; v. 264; p. 510.
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- Display-stand for vials of perfume. F. E. Morrison. No. 52,853; Jan. 7; v. 258; p. 205.
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- Doll. A. B. Norwalk. Nos. 53,084-5; Mar. 11; v. 260; p. 376.
- Doll. G. Pfeffer. Nos. 53,153-4; Apr. 1; v. 261; p. 185.
- Doll. M. B. Spear. No. 53,943; Oct. 7; v. 267; p. 143.
- Doll-figure. J. G. Kaempfer. No. 53,915; Oct. 7; v. 267; p. 139.
- Doll or statuette. S. Haskell. No. 53,037; Mar. 4; v. 260; p. 179.

- Doll, statuette, sculpture, or other article of similar nature. I. N. Weber and J. Kaskel. Nos. 53,756-7; Aug. 26; v. 265; p. 589.
- Doll's cradle. F. Baranello. No. 53,670; Aug. 5; v. 265; p. 123.
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- Drinking-fountain. E. T. Webster. No. 54,342; Dec. 23; v. 269; p. 683.
- Dust-cap. C. Woodbury. No. 53,172; Apr. 1; v. 261; p. 187.
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- Edging. C. S. King. No. 53,740; Aug. 26; v. 265; p. 586.
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- Electric-light receptacle. T. O'Donnell. No. 53,375; May 27; v. 262; p. 627.
- Electric-switch handle. C. D. Platt. No. 53,401; June 3; v. 263; p. 145.
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- Electrical-conductor conduits, Internal-elbow base for fittings for. C. R. Hubbard and H. G. Knoderer. No. 53,334; May 20; v. 262; p. 452.
- Electrical-conductor conduits, Internal-elbow cap for fittings for. C. R. Hubbard and H. G. Knoderer. No. 53,335; May 20; v. 262; p. 453.
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- Electrical heater. F. Kuhn and J. A. Hand. No. 53,684; Aug. 5; v. 265; p. 126.
- Emblem. S. O. Bigney. No. 52,979; Feb. 11; v. 259; p. 356.
- Emblem, an article of manufacture. F. G. Vogler. No. 53,755; Aug. 26; v. 265; p. 589.
- Emblem, badge, button, pin, insignia, &c. G. R. Mayo. Nos. 54,167-76; Nov. 11; v. 268; pp. 337-9.
- Emblem, badge, stick-pin, or similar article. H. G. Es-sayan. Nos. 53,032-3; Mar. 4; v. 260; p. 178.
- Emblem, badge, stickpin, or similar article. H. G. Es-sayan. No. 53,846; Sept. 16; v. 266; p. 423.
- Emblem, brooch, button, fob, charm, stick-pin, or similar article. J. V. Buckle. No. 53,063; Mar. 11; v. 260; p. 372.
- Emblem, brooch, ring-top, &c. J. H. Swift. No. 53,383; May 27; v. 262; p. 628.
- Emblem-button. E. F. Wood. No. 54,296; Dec. 9; v. 269; p. 350.
- Emblem, button, or article of similar nature. E. P. Smith. No. 53,616; July 15; v. 264; p. 518.
- Emblem, button, ring, pin, or article of similar nature. I. C. Nicholson. No. 53,251; Apr. 29; v. 261; p. 942.
- Emblem, button, ring-top, pin, &c. C. Dean. No. 53,705; Aug. 19; v. 265; p. 435.
- Emblem, flag, pendant, or article of similar nature. G. Mueller. No. 53,045; Mar. 4; v. 260; p. 180.
- Emblem, International patriotic. P. O. Tognelli. No. 53,720; Aug. 19; v. 265; p. 438.
- Emblem, pin, or badge. F. L. Gailey. No. 53,174; Apr. 8; v. 261; p. 393.
- Emblem, pin, or similar article. J. Sollinger. No. 53,140; Mar. 25; v. 260; p. 714.
- Emblematic manufactured figure. J. McClure, P. De Barthe and E. S. R. Bickel. No. 53,924; Oct. 7; v. 267; p. 140.
- Engine crank-case and dynamo-shell, Combined. M. C. Cosgray. No. 53,409; June 10; v. 263; p. 307.
- Engine-frame. A. Monsen. No. 54,327; Dec. 23; v. 269; p. 680.
- Engine-manifold for internal-combustion motors. J. W. Hooser. No. 53,269; May 6; v. 262; p. 143.
- Fabric, Emblematic. W. C. Beyenberg. Nos. 54,304-5; Dec. 23; v. 269; p. 676.
- Fabric, Silk. J. H. Bunting. Nos. 53,561-3; July 15; v. 264; p. 509.
- Fabric, Silk. E. Krupicka. No. 53,595; July 15; v. 264; p. 515.
- Fabric, Silk. W. G. Reith. No. 53,609; July 15; v. 264; p. 517.
- Fabric-surface ornamentation. E. Amsler-Laffon. No. 53,173; Apr. 8; v. 261; p. 393.
- Fabric, Surface ornamentation of. E. Amsler-Laffon. Nos. 52,928-40; Feb. 4; v. 259; pp. 158-60.
- Fabric, Textile. J. H. Bunting. No. 53,728; Aug. 26; v. 265; p. 584.
- Fabric, Textile. J. H. Bunting. No. 54,058. Nov. 4; v. 268; p. 149.
- Fabric, Textile. A. J. Graffin. No. 52,989; Feb. 11; v. 259; p. 358.
- Fabric, Textile. E. Krupicka. No. 53,743; Aug. 26; v. 265; p. 587.
- Fabric, Textile. J. A. Migel. Nos. 53,514-515; July 8; v. 264; p. 332.
- Fabric, Woven pile. E. E. Hussey. No. 54,091; Nov. 4; v. 268; p. 154.
- Fan, Belt-. J. D. Karle. No. 53,967; Oct. 14; v. 267; p. 326.
- Faucet. G. H. T. Scribner. No. 53,615; July 15; v. 264; p. 518.
- Faucet-casing. G. E. Mittinger. No. 52,919; Jan. 28; v. 258; p. 790.
- Fender and lamp, Automobile. B. M. Diver. No. 53,572; July 15; v. 264; p. 511.
- Fern-dish or similar article. S. W. Farber. No. 52,985; Feb. 11; v. 259; p. 357.
- Film-reels, Frame for. C. A. Kays and J. Wilhelm. No. 53,660; July 29; v. 264; p. 844.
- Fire-extinguisher. H. R. Rost. No. 53,936; Oct. 7; v. 267; p. 142.
- Fish-bait. H. S. Dills. Nos. 54,071-2; Nov. 4; v. 268; p. 151.
- Fish-hooks, Device for sharpening. W. W. Taylor. No. 53,645; July 22; v. 264; p. 679.
- Fitting. G. B. Pickop. Nos. 53,689-90; Aug. 5; v. 267; pp. 126-7.
- Fixture-arm. T. Dahl. No. 53,003; Feb. 18; v. 259; p. 560.
- Flag. A. H. Allen. No. 54,233; Dec. 9; v. 269; p. 339.
- Flag. M. L. Casimier. No. 52,946; Feb. 4; v. 259; p. 161.
- Flag. H. Creange. No. 53,293; May 13; v. 262; p. 286.
- Flag. H. M. Holden. No. 53,503; July 8; v. 264; p. 330.
- Flag. B. L. Mink. No. 52,896; Jan. 14; v. 258; p. 429.
- Flag. W. H. Richards. No. 52,900; Jan. 14; v. 258; p. 430.
- Flag. D. O. Teasley. No. 53,259; Apr. 29; v. 261; p. 943.
- Flag. F. A. Waterhouse. No. 53,325; May 13; v. 262; p. 291.
- Flag and photograph-mount, Combined service-. W. J. Eastwood. No. 52,867; Jan. 14; v. 258; p. 425.
- Flag, banner, pennant, pin, button, emblem, or other similar article. F. J. Buckley. No. 53,064; Mar. 11; v. 260; p. 372.
- Flag, banner, pennant, sign, emblem, &c. I. M. Beemer. No. 53,699; Aug. 19; v. 268; p. 434.
- Flag, banner, sign, poster, pennant, badge, emblem, pin, button, &c. W. H. Simonson. Nos. 53,166-7; Apr. 1; v. 261; p. 187.
- Flag or banner. E. W. Keller. Nos. 53,368-9; May 27; v. 262; p. 626.
- Flag or banner. M. Michael. Nos. 53,079-80; Mar. 11; v. 260; p. 375.
- Flag or emblem. C. F. Hoffbauer. No. 52,879; Jan. 14; v. 258; p. 427.
- Flag or emblem. R. W. Mirabito. No. 53,374; May 27; v. 262; p. 627.
- Flag, Peace-. M. D. Shatt. No. 53,210; Apr. 15; v. 261; p. 607.
- Flag, pennant, curtain, table-cover, &c. M. J. Achor. No. 53,429; June 17; v. 263; p. 456.
- Flag, pennant, emblem, or article of a similar nature, Service-. C. S. Jacobs. No. 53,126; Mar. 25; v. 260; p. 712.
- Flag, &c., Holder for. F. O. von Tobel. No. 54,340; Dec. 23; v. 269; p. 682.
- Flag, pennant, emblem, sign, or article of similar nature. E. Heyl. No. 53,176; Apr. 8; v. 261; p. 393.
- Flag, pennant, or similar article. W. J. Sweeney. No. 53,471; June 17; v. 263; p. 463.
- Flag, pennant, sign, &c. A. Gramlich. No. 53,298; May 13; v. 262; p. 286.
- Flag, pennant, sign, emblem, &c. J. W. Bell, Jr. No. 53,700; Aug. 19; v. 265; p. 434.
- Flag, pennant, sign, emblem, or article of similar nature. M. H. Krueger. No. 53,130; Mar. 25; v. 260; p. 712.
- Flag, pennant, sign, emblem, or article of a similar nature. O. F. Selle. No. 53,138; Mar. 25; v. 260; p. 714.
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- Flower-holder. G. E. M. Stumpp and K. Kammann. No. 53,669; July 29; v. 264; p. 846.
- Fluid-pressure tanks, Pressure-regulator head for. W. F. Gradolph. No. 53,497; July 8; v. 264; p. 329.
- Flytrap, Glass. F. Klotz. No. 53,741; Aug. 26; v. 265; p. 586.
- Fob, pendant, brooch, pin, or similar article. C. F. Hoffbauer. No. 53,738; Aug. 26; v. 265; p. 586.
- Fob, pendant, or similar article. C. Bohnen. No. 53,144; Apr. 1; v. 261; p. 183.
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- Fork and knife, Combined. M. G. Zizelman. No. 54,298; Dec. 9; v. 269; p. 351.
- Frame or plaque. C. Gamache, Jr. No. 53,577; July 15; v. 264; p. 512.
- Fruit, Machine for extracting juice from. J. Levin. No. 54,271; Dec. 9; v. 269; p. 346.
- Furnace-casing. W. C. Wolf. No. 54,159; Nov. 4; v. 268; p. 166.



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- Furniture, cabinet, casket, interior or exterior decoration, Manufactured figure for. A. M. Holstein. No. 52,886; Jan. 14; v. 258; p. 428.
- Furniture, cabinet, casket, interior or exterior decoration, Manufactured ornamental figure for. A. M. Holstein. No. 52,887; Jan. 14; v. 258; p. 428.
- Furniture, cabinet, casket, interior, or exterior decoration, Manufactured panel figure for. A. M. Holstein. No. 53,007; Feb. 18; v. 259; p. 560.
- Furniture, cabinet, casket, interior or exterior decoration, Manufactured pediment figure for. A. M. Holstein. No. 52,884; Jan. 14; v. 258; p. 427.
- Furniture, cabinet, casket, interior or exterior decoration, Manufactured pediment figure for. A. M. Holstein. No. 52,888; Jan. 14; v. 258; p. 428.
- Furniture, casket, interior or exterior decoration, Manufactured figure for. A. M. Holstein. No. 54,319; Dec. 23; v. 269; p. 678.
- Furniture, casket, cabinet, interior or exterior decoration, Manufactured panel figure for. A. M. Holstein. Nos. 52,882-3; Jan. 14; v. 258; p. 427.
- Furniture, casket, interior, or exterior decoration, Crest ornament for. A. M. Holstein. No. 53,008; Feb. 18; v. 259; p. 561.
- Furniture, casket, interior or exterior decoration, Panel for. A. M. Holstein. No. 52,885; Jan. 14; v. 258; p. 428.
- Furniture, casket, interior or exterior decoration, Panel for. A. M. Holstein. Nos. 52,889-90; Jan. 14; v. 258; p. 428.
- Furniture, caskets, and the like, Leg for. A. M. Holstein. No. 52,880; Jan. 14; v. 258; p. 427.
- Furniture, caskets, interior or exterior decoration, Panel for. A. M. Holstein. No. 52,881; Jan. 14; v. 258; p. 427.
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- Gas-saving plate, W. F. Muchlstein. No. 52,921; Jan. 28; v. 258; p. 790.
- Gasoline-dispenser, J. H. Brady. No. 53,671; Aug. 11; v. 265; p. 124.
- Gear-wheel, J. Johnson. No. 54,266; Dec. 9; v. 269; p. 345.
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- Glass or chinaware, Vessels made of. C. L. Reizenstein. No. 54,282; Dec. 9; v. 269; p. 348.
- Globe or shade, Lighting. E. A. Gillinder. No. 54,079; Nov. 4; v. 268; p. 152.
- Glove, J. N. Reynolds. No. 54,333; Dec. 23; v. 269; p. 681.
- Gloves, Cuff for gauntlet. S. B. Morrell. No. 52,920; Jan. 28; v. 258; p. 790.
- Glower-reflector, B. B. Kahn. No. 53,916; Oct. 7; v. 267; p. 139.
- Goblet, A. F. Saunders. No. 52,995; Feb. 11; v. 259; p. 369.
- Goblet or similar article, F. Schneider. No. 53,319; May 13; v. 262; p. 290.
- Gramophone-case, W. H. Friedline. No. 53,575; July 15; v. 264; p. 512.
- Graphophone-case, W. H. Friedline. No. 53,734; Aug. 26; v. 265; p. 585.
- Graphophones, Screen for sound-outlets of. W. A. Sommerhof. No. 53,617; July 15; v. 264; p. 518.
- Grille or panel for phonograph-cabinets, &c. W. F. Halstrick. Nos. 54,082-5; Nov. 4; v. 268; p. 153.
- Gum and mint case, L. W. Buchenau. No. 53,101; Mar. 18; v. 260; p. 545.
- Gum and mint case, L. W. Buchenau. No. 53,880; Oct. 7; v. 267; p. 132.
- Gum and mint case, L. W. Buchenau. No. 54,196; Nov. 18; v. 268; p. 522.
- Gun, Grease-. A. V. Gullborg. No. 53,122; Mar. 25; v. 260; p. 711.
- Hair-pin, S. E. Creech and P. Bland. No. 53,872; Sept. 16; v. 266; p. 427.
- Hair-pin, S. E. Creech and P. Bland. No. 52,947; Feb. 4; v. 259; p. 161.
- Hair-pin, S. E. Creech and P. Bland. No. 53,030; Mar. 4; v. 260; p. 178.
- Hammer, E. Edelmann. No. 54,162; Nov. 11; v. 268; p. 336.
- Hand-bag frame, C. Mazza. No. 53,423; June 10; v. 263; p. 309.
- Hand-bag frame, G. Montroni. Nos. 53,424-5; June 10; v. 263; p. 309.
- Hand-bag frame, W. Turton. No. 53,721; Aug. 19; v. 265; p. 438.
- Handle, F. E. Greene. No. 53,299; May 13; v. 262; p. 287.
- Handle for a spoon, fork, or similar article, S. J. Large. Nos. 53,921-2; Oct. 7; v. 267; p. 140.
- Hat, W. Delman. No. 53,065; Mar. 11; v. 260; p. 373.
- Hat-band, H. Baehr. No. 52,905; Jan. 28; v. 258; p. 787.
- Hat-pin, scarf-pin, cuff-link, tie-clip, ring, fob, &c. F. Kaupmann, Jr. No. 53,128; Mar. 25; v. 260; p. 712.
- Headlight, Automobile-. H. C. Stutz. No. 53,619; July 15; v. 264; p. 519.
- Headlight-dimmer, P. P. Hein. No. 53,907; Oct. 7; v. 267; p. 137.
- Headlight-lens, G. Johnson. No. 54,095; Nov. 4; v. 268; p. 155.
- Headlight-lens, J. J. Madden. No. 52,848; Jan. 7; v. 258; p. 204.
- Headlight-lens, C. W. Wible. No. 54,158; Nov. 4; v. 268; p. 166.
- Headlight lens, Auto-. E. S. De Tamble. No. 53,489; July 8; v. 264; p. 328.
- Headlights, Diffuse color-screen for automobile-. E. G. Johanson. No. 54,320; Dec. 23; v. 269; p. 679.
- Headlights, Front glass for automobile-. B. H. Sills. No. 53,667; July 29; v. 264; p. 846.
- Heel or lift for boots, shoes, or articles of similar nature, C. Wright. No. 53,625; July 15; v. 264; p. 520.
- Heel, Resilient, B. W. Brockett. Nos. 53,877-8; Oct. 7; v. 267; p. 132.
- Heel, Rubber, I. R. Bailey. No. 53,060; Mar. 11; v. 260; p. 372.
- Helmets, Plaque-mounting for military, H. E. Nay. No. 53,930; Oct. 7; v. 267; p. 141.
- Hoe, J. O. McGee. No. 53,637; July 22; v. 264; p. 678.
- Honor-board, Miniature, H. R. Meyers. No. 53,204; Apr. 15; v. 261; p. 605.
- Hood, Baby's, J. J. Pfister. No. 54,119; Nov. 4; v. 268; p. 159.
- Hood for motor-vehicles, Engine-. A. F. Masury. No. 53,373; May 27; v. 262; p. 627.
- Horn, Mechanically-actuated diaphragm-. D. A. McConnell. No. 52,917; Jan. 28; v. 258; p. 789.
- Horseshoe-pad, W. J. Kent. No. 53,635; July 22; v. 264; p. 677.
- Hose connector, Bath-. H. Durst. No. 54,309; Dec. 23; v. 269; p. 677.
- Hose-supporter, Continuous-web men's, C. L. Meyer. No. 53,313; May 13; v. 262; p. 289.
- Hydroaeroplane-pontoon, W. S. Burgess. No. 53,882; Oct. 7; v. 267; p. 132.
- Hydroaeroplane-pontoon, C. G. MacGregor and H. Kleckler. No. 52,847; Jan. 7; v. 258; p. 204.
- Hydropneumatic-press frame, C. A. Holdridge. No. 53,910; Oct. 7; v. 267; p. 138.
- Humidifier, R. D. Smith. No. 53,403; June 3; v. 263; p. 145.
- Ice-cream cone, A. McLaren. Nos. 52,894-5; Jan. 14; v. 258; p. 429.
- Ice-cream cone, A. McLaren. Nos. 53,509-510; July 8; v. 264; p. 331.
- Ice-cream cone, J. L. Snyder. No. 53,168; Apr. 1; v. 261; p. 187.
- Ice-cream disher, A. P. Osius. No. 54,221; Nov. 18; v. 268; p. 526.
- Ice-cream measure, A. P. Osius. No. 53,135; Mar. 25; v. 260; p. 713.
- Ice-cream spoon, Wooden, H. A. Wilson. No. 53,548; July 8; v. 264; p. 337.
- Ice-pick and scoop, Combined, S. Berger. No. 54,303; Dec. 23; v. 269; p. 675.
- Implement, Combination, F. S. Fletcher. No. 54,250; Dec. 9; v. 269; p. 342.
- Incense-burner, E. A. Scott. No. 53,226; Apr. 22; v. 261; p. 780.
- Indicator, sign, or similar article, C. A. Widmer. Nos. 53,545-547; July 8; v. 264; p. 337.
- Ink-well, E. F. Shaffer. No. 53,644; July 22; v. 264; p. 679.
- Inkstand, F. A. Weeks. No. 53,951; Oct. 7; v. 267; p. 145.

- Insulator. J. T. Horton. No. 52,991; Feb. 11; v. 259; p. 358.
- Insulator. C. L. Pierce, Jr. No. 53,522; July 8; v. 264; p. 333.
- Jack, Lifting-. P. S. Kimball. No. 53,505; July 8; v. 264; p. 330.
- Jar, Compartment-. W. A. Reaper. No. 53,935; Oct. 7; v. 267; p. 142.
- Kettle, Berlin. W. Luttringhaus. No. 53,309; May 13; v. 262; p. 288.
- Knife, fork, or spoon handle. D. Hadad. No. 53,241; Apr. 29; v. 261; p. 940.
- Knife-guard, Safety. J. M. Forsyth. No. 52,948; Feb. 4; v. 259; p. 162.
- Knife, Vegetable-. W. A. E. Michaelis. No. 54,277; Dec. 9; v. 269; p. 347.
- Label. J. L. Flannery, Jr. No. 53,120; Mar. 25; v. 260; p. 611.
- Lace. M. H. Daudy. Nos. 53,729-31; Aug. 26; v. 265; p. 585.
- Lace. E. A. Davis. No. 53,488; July 8; v. 264; p. 328.
- Lace. F. Meyer. Nos. 53,019-21; Feb. 25; v. 259; p. 757.
- Lace. F. Meyer. Nos. 53,512-513; July 8; v. 264; p. 332.
- Lace. F. Meyer. No. 53,636; July 22; v. 264; p. 677.
- Lace, Cotton. G. H. Clarke. No. 53,289; May 13; v. 262; p. 285.
- Lace medallion. L. Dreifuss. No. 52,911-12; Jan. 28; v. 258; pp. 788-9.
- Lamp. A. Boehringer. No. 53,218; Apr. 22; v. 261; p. 778.
- Lamp. E. A. Laurent. No. 53,306; May 13; v. 262; p. 288.
- Lamp. A. S. Macdonald. No. 53,224; Apr. 22; v. 261; p. 779.
- Lamp. A. S. Macdonald and A. W. Pressey. No. 53,225; Apr. 22; v. 261; p. 780.
- Lamp. F. E. Stair. No. 53,944; Oct. 7; v. 267; p. 143.
- Lamp and bracket, Piano-. C. Eberhart, Jr. No. 53,394; June 3; v. 263; p. 144.
- Lamp and bracket, Piano-. A. Fraser. No. 53,395; June 3; v. 263; p. 144.
- Lamp and gong, Combination. E. J. Holland. No. 54,260; Dec. 9; v. 269; p. 344.
- Lamp and phonograph, Combined. P. R. Gonsky. No. 54,315; Dec. 23; v. 269; p. 678.
- Lamp, Automobile signal-. R. W. Hill. No. 53,908; Oct. 7; v. 267; p. 137.
- Lamp-bracket and sign-support, Combined. D. H. Wyatt. No. 53,549; July 8; v. 264; p. 337.
- Lamp bracket, Vehicle-. C. F. L., C. H., and W. L. Kaufmann. No. 53,177; Apr. 8; v. 261; p. 393.
- Lamp bracket, Vehicle-. W. L. Kaufmann. No. 53,179; Apr. 8; v. 261; p. 394.
- Lamp casing and handle-stem, Vehicle-. C. F. L. and W. L. Kaufmann. No. 53,178; Apr. 8; v. 261; p. 394.
- Lamp casing, Automobile signal-. C. W. Cole. No. 54,064; Nov. 4; v. 268; p. 150.
- Lamp, Electric. A. E. Case. No. 53,568; July 15; v. 264; p. 510.
- Lamp, Front for an automobile-. L. L. Scott. No. 54,226; Nov. 18; v. 268; p. 527.
- Lamp-front frame. R. E. Cole. No. 53,673; Aug. 5; v. 265; p. 124.
- Lamp-globe. R. Y. Barrows. No. 52,836; Jan. 7; v. 258; p. 202.
- Lamp-globe. L. Dufek. No. 53,031; Mar. 4; v. 260; p. 178.
- Lamp-globe. A. Salzer. No. 53,049; Mar. 4; v. 260; p. 181.
- Lamp or similar article, Panel for a. A. S. Macdonald and J. Muller. No. 53,310; May 13; v. 262; p. 288.
- Lamp, Portable electric. W. E. Pearson and H. G. O'Neill. Nos. 53,207-8; Apr. 15; v. 261; p. 606.
- Lamp-shade. A. Boehringer. No. 53,283; May 13; v. 262; p. 284.
- Lamp-shade. W. C. Coleman. No. 53,266; May 6; v. 262; p. 143.
- Lamp-shade-bracket piece. A. Willenbacher. No. 53,622; July 15; v. 264; p. 519.
- Lamp-shade ornament. H. Ichikawa. No. 52,891; Jan. 14; v. 258; p. 429.
- Lamp-shade, Ornamental. J. Summa. No. 54,339; Dec. 23; v. 269; p. 682.
- Lamp-stand. G. I. Martin. No. 54,325; Dec. 23; v. 269; p. 679.
- Lamp-stand. C. Nelson. No. 53,022; Feb. 25; v. 259; p. 757.
- Lamp stand, Adjustable electric-. L. L. Katzenstein. No. 54,096; Nov. 4; v. 268; p. 155.
- Lamp-standard. J. L. Ronsko. No. 53,402; June 3; v. 263; p. 145.
- Lamp-standard. T. Wells and E. R. Vandawalker. No. 53,542; July 8; v. 264; p. 336.
- Lamp-standard and street-indicator, Combined. D. H. Wyatt. No. 53,550; July 8; v. 264; p. 338.
- Lamp standard, Electric. J. M. Hansen. No. 53,396; June 3; v. 263; p. 144.
- Lamp, Table-. R. V. Owen. No. 53,519. July 8; v. 264; p. 333.
- Lamp, Vehicle-. E. A. Hawthorne. No. 53,123; Mar. 25; v. 260; p. 711.
- Lamps, Carbid-cup for acetylene-. A. L. Hansen. No. 54,349; Dec. 30; v. 269; p. 852.
- Lamps, Cluster, for floor and table. M. Schlesinger. No. 54,131; Nov. 4; v. 268; p. 161.
- Lamps, Rim for vehicle-. C. D. Ryder. No. 54,130; Nov. 4; v. 268; p. 161.
- Lantern, Portable electric. W. Grether. No. 53,240; Apr. 29; v. 261; p. 940.
- Letter-head. R. F. Corry. No. 54,066; Nov. 4; v. 268; p. 150.
- Light, Combination tail and guide. N. A. Huston. No. 54,092; Nov. 4; v. 268; p. 154.
- Light-filter. B. Irwin. No. 53,152; Apr. 1; v. 261; p. 184.
- Light-globe. F. M. Walker. No. 53,389; May 27; v. 262; p. 629.
- Light-reflecting bowl. H. Cohn. No. 54,232; Dec. 2; v. 269; p. 151.
- Lighter, Pocket-. M. Ginsburg. No. 54,314; Dec. 23; v. 269; p. 677.
- Lighting device, Smoker's outdoor. J. R. Harris. No. 53,242; Apr. 29; v. 261; p. 942.
- Lighting-fixture. H. C. Adam. Nos. 53,229-31; Apr. 29; v. 261; pp. 938-9.
- Lighting-fixture. H. C. Adam. No. 53,265; May 6; v. 262; p. 143.
- Lighting-fixture. H. C. Adam. Nos. 53,696-7; Aug. 19; v. 265; p. 434.
- Lighting-fixture. H. C. Adam. Nos. 53,975-6; Nov. 4; v. 268; pp. 135-6.
- Lighting-fixture. R. W. Bayley. No. 54,234; Dec. 9; v. 269; p. 339.
- Lighting-fixture. D. L. Bean. Nos. 53,959-62; Oct. 14; v. 267; p. 325.
- Lighting-fixture. I. I. Hance. No. 54,317; Dec. 23; v. 269; p. 678.
- Lighting-fixture. E. C. McKinnie. No. 53,249; Apr. 29; v. 261; p. 942.
- Lighting-fixture. R. V. Owen. No. 53,520; July 8; v. 264; p. 333.
- Lighting-fixture. D. A. Taylor. No. 53,538; July 8; v. 264; p. 336.
- Lighting-fixture. H. R. Yardley. Nos. 54,190-2; Nov. 11; v. 268; p. 341.
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- Lighting-fixture bowl-hook. L. R. Wellman. No. 53,347; May 20; v. 262; p. 455.
- Lighting-fixture, Combination hook and socket cover. T. Dahl. No. 53,005; Feb. 18; v. 259; p. 560.
- Lighting-fixture globe. R. Crowder. No. 53,145; Apr. 1; v. 261; p. 183.
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- Lighting-fixture shade. R. Neueder. No. 53,341; May 20; v. 262; p. 454.
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- Lighting-fixture urn. H. C. Adam. No. 53,873; Oct. 7; v. 267; p. 131.
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- Lighting-fixture, Arm for. G. Westphal. No. 53,475; June 17; v. 263; p. 463.
- Lighting-fixture, Body-plate for. F. K. Maerz. Nos. 53,009-11; Feb. 18; v. 259; p. 561.
- Lighting-fixture, Bowl for. F. W. Mathieu. No. 53,662; July 29; v. 264; p. 845.
- Lighting-fixture, Bowl-hook for. L. R. Wellman. No. 54,154; Nov. 4; v. 268; p. 165.
- Lighting-fixture, Bracket-arm for. F. K. Maerz. Nos. 53,012-14; Feb. 18; v. 259; pp. 561-2.
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- Lighting-fixture, Glass shade or bowl for. N. Kopp. No. 53,742; Aug. 26; v. 265; p. 587.
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- Metal keeper for straps and other like devices. O. L. Badger. No. 52,942; Feb. 4; v. 259; p. 161.
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- Mirror, hair-brush, or similar toilet article. K. Kasai. No. 53,448; June 17; v. 263; p. 459.
- Mirror, razor-stop, and match-igniter, Combination. H. J. Armstrong. No. 53,282; May 13; v. 262; p. 284.
- Mirrors, brushes, or similar articles, Back for. A. H. Staf. No. 54,356; Dec. 30; v. 269; p. 853.
- Molding, Running-board. W. J. Spiro. No. 54,285; Dec. 9; v. 269; p. 349.
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- Motor and switchboard frame, Combined. C. E. Gambill. No. 54,253; Dec. 9; v. 269; p. 343.
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- Motor-vehicles, Instrument-board for. E. W. Goodwin. No. 53,630; July 22; v. 264; p. 676.
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- Musical instrument, Body of a stringed. V. R. Leone. No. 52,846; Jan. 7; v. 258; p. 204.
- Musical-instrument case. F. Zamecnik. No. 53,327; May 13; v. 262; p. 291.
- Musical instruments, Case for. R. L. Yeakey. No. 52,927; Jan. 28; v. 258; p. 791.
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- Napkin-holder. G. Ohl. No. 53,603; July 15; v. 264; p. 516.
- Necklaces and similar articles of jewelry. Clasp for. H. Wellencheck. No. 52,926; Jan. 28; v. 258; p. 791.
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- Needle, Crochet. L. N. Hitchcock. No. 53,591; July 15; v. 264; p. 514.
- Nut bowl and cracker, Combination. J. S. and M. O. Kepler. Nos. 53,711-12; Aug. 19; v. 265; p. 436.
- Nutcracker. J. S. and M. O. Kepler. No. 53,713; Aug. 19; v. 265; p. 436.
- Odometer face-plate. J. Berge. No. 53,726; Aug. 26; v. 265; p. 584.
- Odometer hub-cap. J. Berge. No. 53,981; Nov. 4; v. 268; p. 136.
- Oiler, Spring. W. H. Brown. Nos. 53,406-7; June 10; v. 263; p. 306.
- Optician's tool. G. Mayerle. No. 53,599; July 15; v. 264; p. 515.
- Ornament. T. M. Smith. No. 54,338; Dec. 23; v. 269; p. 682.
- Oven, Electrical cabinet. E. E. Lindsey. No. 54,272; Dec. 9; v. 269; p. 346.
- Oven, Reel. J. Dalton. No. 52,842; Jan. 7; v. 258; p. 203.
- Oven, Reel. J. Dalton and B. C. De Meulle. No. 54,067; Nov. 4; v. 268; p. 151.
- Oven, Rotary. M. Froehlich. No. 54,075; Nov. 4; v. 268; p. 152.
- Overgaiter. J. Bregman. No. 53,983; Nov. 4; v. 268; p. 137.
- Overgaiter. J. Bregman. No. 54,195; Nov. 18; v. 268; p. 522.
- Packing-ring. E. F. Cook. No. 53,001; Feb. 18; v. 259; p. 559.
- Padlock. E. B. Stone. No. 53,141; Mar. 25; v. 260; p. 714.
- Padlock, Permutation. P. Lo Cascio. No. 53,596; July 15; v. 264; p. 515.
- Pail cover, Milk. H. B. Babson. No. 53,109; Mar. 25; v. 260; p. 709.
- Panel, Combination-instrument. J. Berge. No. 54,194; Nov. 18; v. 268; p. 522.
- Paper-clip. W. H. Averill. No. 53,554; July 15; v. 264; p. 508.
- Paper, Decorative. G. E. Shropshire. No. 53,320; May 13; v. 262; p. 290.
- Paper, Sheet of wrapping. M. Spiegel. No. 54,355; Dec. 30; v. 269; p. 853.
- Paper-weight. L. J. Harley, Jr. No. 54,087; Nov. 4; v. 268; p. 154.
- Paper-weight or other ornament of similar nature. B. S. Samuels. No. 53,183; Apr. 8; v. 261; p. 394.
- Paper-weight or similar article. R. S. Langley. No. 53,203; Apr. 15; v. 261; p. 605.
- Paper wrapper for loaf of bread, Paraffin. G. S. Ward. No. 53,261; Apr. 29; v. 261; p. 944.
- Pedestal. A. Boehringer. No. 53,284; May 13; v. 262; p. 284.
- Pedestal for a combined school desk and chair, Double. C. Fohman. No. 52,872; Jan. 14; v. 258; p. 425.
- Pen, Fountain. W. T. Fitzpatrick. No. 52,868; Jan. 14; v. 258; p. 425.
- Pencil-sharpeners, Cutter for. A. P. Wilson. Nos. 53,869-70; Sept. 16; v. 266; p. 427.
- Pendant. G. E. Crossman. No. 53,890; Oct. 7; v. 267; p. 134.
- Pendent-switch casing. R. A. Belmont. No. 53,483; July 8; v. 264; p. 327.
- Pennant. J. H. Burton. No. 52,865; Jan. 14; v. 258; p. 424.
- Pennant, book-cover, or similar article. T. R. Courtenay. No. 53,487; July 8; v. 264; p. 328.
- Phonograph-cabinet. J. N. Vasey. Nos. 53,753-4; Aug. 26; v. 265; p. 588-9.
- Phonograph-horn. W. F. Smith. No. 53,139; Mar. 25; v. 260; p. 714.
- Phonograph horn and amplifier. R. L. Poe. No. 54,224; Nov. 18; v. 268; p. 527.
- Phonograph-motor casing. P. Catucci. No. 53,235; Apr. 29; v. 261; p. 939.
- Photographs or similar articles, Carrying-case for. J. Wolff. No. 53,953; Oct. 7; v. 267; p. 145.
- Photo frame or stand. C. and D. Campbell. No. 53,704; Aug. 19; v. 265; p. 435.
- Photographer's printing device. Z. W. Webb. No. 53,213; Apr. 15; v. 261; p. 607.
- Photographic mount, mat, or similar article. E. P. Platt. No. 53,088; Mar. 11; v. 260; p. 376.
- Picture and service-record frame. H. A. Phillips. No. 52,963; Feb. 4; v. 259; p. 164.
- Picture-frame. C. and D. Campbell. No. 53,565; July 15; v. 264; p. 510.
- Picture-frame. J. Cierplik. No. 53,842; Sept. 16; v. 266; p. 422.
- Picture-frame. J. A. Moller. No. 52,897; Jan. 14; v. 258; p. 430.
- Picture-frame. J. Poczatek. No. 53,524; July 8; v. 264; p. 334.
- Pin. M. F. Powell. No. 53,209; Apr. 15; v. 261; p. 606.
- Pin. W. J. Ruland. No. 53,752; Aug. 26; v. 265; p. 588.
- Pin. L. L. Whitaker and C. C. Ishman. No. 53,758; Aug. 26; v. 265; p. 589.
- Pin and picture-frame. E. M. Dialynas. No. 53,707; Aug. 19; v. 265; p. 435.
- Pin, badge, charm, or article of similar nature. G. Clay. No. 53,290; May 13; v. 262; p. 285.
- Pin, brassard, or badge. H. I. Pratt. No. 53,748; Aug. 26; v. 265; p. 588.
- Pin, button, badge, emblem, insignia, medal, watch-fob, or article of similar nature. M. F. Wooten. No. 53,263; Apr. 29; v. 261; p. 944.
- Pin-holder. W. C. Estes. No. 53,411; June 10; v. 263; p. 307.
- Pin, Knot. H. F. Alexis. No. 52,976; Feb. 11; v. 259; p. 356.
- Pin, Service. W. A. Hartline. No. 53,501; July 8; v. 264; p. 330.
- Pinch-bar and nail-puller, Combined. V. A. Nelson. No. 52,960; Feb. 4; v. 259; p. 164.
- Plank for meats and fish. P. M. McHale and T. J. Judge. No. 54,110; Nov. 4; v. 268; p. 157.
- Plaque. E. Fuchs. Nos. 54,312-13; Dec. 23; v. 269; p. 677.
- Plaque, emblem, &c. J. Wisniewski. No. 54,344; Dec. 23; v. 269; p. 683.
- Plaster, Corn. H. V. Sheppard. No. 53,939; Oct. 7; v. 267; p. 143.
- Plate. S. and J. Butt. No. 54,238; Dec. 9; v. 269; p. 340.
- Plate for a hose-supporter, Supporting. C. J. Hausen. No. 53,302; May 13; v. 262; p. 287.

- Plate or similar article. C. Klenk. No. 53,305; May 13; v. 262; p. 287.
- Plate or similar article. C. J. Noke. No. 53,252; Apr. 29; v. 261; p. 942.
- Plate, plaque, platter, or saucer. T. H. Hanratty. No. 53,244; Apr. 29; v. 261; p. 941.
- Platter or similar article. J. H. Ring. No. 53,611; July 15; v. 264; p. 517.
- Pots, dish-pans, &c., Handle for cooking-. W. Barry. No. 54,302; Dec. 23; v. 269; p. 675.
- Poultry-waterer. E. S. Johnson. No. 54,094; Nov. 4; v. 268; p. 155.
- Powder-box, cream-jar, or other similar toilet article. K. Kasai. No. 53,447; June 17; v. 263; p. 459.
- Powder box, Talcum-. E. Hoffman. No. 53,071; Mar. 11; v. 260; p. 374.
- Powder boxes, Cap or cover for talcum-. E. Hoffman. No. 53,442; June 17; v. 263; p. 458.
- Powder-can. E. Hoffman. No. 53,200; Apr. 15; v. 261; p. 605.
- Powder-can or other receptacle. C. S. Humphrey. No. 53,850; Sept. 16; v. 266; p. 424.
- Powder-container. A. E. Bruns. Nos. 53,760-841; Sept. 16; v. 266; pp. 409-22.
- Powder-container. E. Hoffman. No. 53,303; May 13; v. 262; p. 287.
- Powder-container or similar receptacle. Cover for. C. S. Humphrey. No. 53,911; Oct. 7; v. 267; p. 138.
- Powder container, Toilet-. A. E. Bruns. Nos. 53,984-54,056; Nov. 4; v. 268; pp. 137-49.
- Powder-container tops, Slip-cap for. F. S. Hyatt. No. 54,265; Dec. 9; v. 269; p. 345.
- Powder-puff. A. Marcus. No. 53,398; June 3; v. 263; p. 144.
- Powders, Container for toilet and other. C. S. Humphrey. No. 53,445; June 17; v. 263; p. 458.
- Power and lighting plant, Casing and frame for a. C. E. Gambill. No. 54,252; Dec. 9; v. 269; p. 343.
- Precious stones, Setting for. T. Mountford. No. 53,600; July 15; v. 264; p. 515.
- Pull-socket body, Porcelain. E. H. Freeman. Nos. 53,147-8; Apr. 1; v. 261; pp. 183-4.
- Pump-casing. E. P. Larsh. No. 53,336; May 20; v. 262; p. 453.
- Pump casing, Fluid-. A. Wiltz. No. 53,695; Aug. 5; v. 265; p. 127.
- Pump station, Gasolene-. A. E. Davenport. No. 53,893; Oct. 7; v. 267; p. 135.
- Rack. J. E. Rylander. No. 54,183; Nov. 11; v. 268; p. 340.
- Radiator. M. J. Callahan. No. 54,059; Nov. 4; v. 268; p. 149.
- Radiator. A. O. Holtom. No. 53,444; June 17; v. 263; p. 458.
- Radiator. H. D. Kellogg. No. 53,018; Feb. 25; v. 259; p. 766.
- Radiator-casing. C. L. Granger. No. 53,413; June 10; v. 263; p. 307.
- Radiator-casing. L. L. Scott. No. 54,182; Nov. 4; v. 268; p. 161.
- Radiator casing and hood, Combined. R. E. Pfaffle. No. 54,118; Nov. 4; v. 268; p. 159.
- Radiator-core. M. Litman. No. 53,744; Aug. 26; v. 265; p. 587.
- Radiator, Gas-. T. J. Potter. No. 53,525; July 8; v. 264; p. 334.
- Radiators, Heating unit for electric. J. F. Lamb. No. 54,350; Dec. 30; v. 269; p. 852.
- Rail-tie. J. B. Bridgewater. No. 53,353; May 27; v. 262; p. 624.
- Range. C. W. Nye. No. 54,279; Dec. 9; v. 269; p. 348.
- Razor. C. B. Collins. No. 53,884; Oct. 7; v. 267; p. 133.
- Razor-blade. C. B. Collins. No. 53,885; Oct. 7; v. 267; p. 133.
- Receptacle. C. S. Humphrey. No. 53,912; Oct. 7; v. 267; p. 138.
- Register. A. G. Scherer. Nos. 53,050-2; Mar. 4; v. 260; p. 181.
- Ring. G. H. Godfrey. No. 53,578; July 15; v. 264; p. 512.
- Ring. J. A. Jacobs. No. 53,913; Oct. 7; v. 267; p. 138.
- Ring. J. A. Meyers. No. 54,112; Nov. 4; v. 268; p. 158.
- Ring, bracelet, breastpin, buckle, or similar article of jewelry. S. Carlin. No. 53,195; Apr. 15; v. 261; p. 604.
- Ring, button, brooch, bar-pin, scarf-pin, plaque, or article of similar nature. N. L. Strauss and M. Hepriot. No. 53,258; Apr. 29; v. 261; p. 943.
- Ring, Finger-. P. Benjamin. Nos. 52,837-8; Jan. 7; v. 258; p. 203.
- Ring, Finger-. M. H. Kropé. No. 53,040; Mar. 4; v. 260; p. 179.
- Ring or locket. A. Provopulas. No. 52,857; Jan. 7; v. 258; p. 206.
- Ring or other article of jewelry, Finger-. S. Buchsbaum. No. 53,062; Mar. 11; v. 260; p. 372.
- Ring or similar article of jewelry. C. W. Clarke. No. 53,436; June 17; v. 263; p. 457.
- Ring or similar article of manufacture. M. J. Schloss. Nos. 53,530-35; July 8; v. 264; p. 335.
- Rocking-chair and cradle attachment. S. S. Arnold. No. 53,392; June 3; v. 263; p. 143.
- Roof or wall covering. F. C. Overbury and H. C. Platts. No. 53,015; Feb. 18; v. 259; p. 562.
- Roofing element. F. C. Overbury. Nos. 53,086-7; Mar. 11; v. 260; p. 376.
- Rubber heel. W. H. Clarke. No. 53,359; May 27; v. 262; p. 625.
- Rubber heel-pad for boots and shoes. L. R. Bandler. No. 54,231; Dec. 2; v. 269; p. 151.
- Rubber sole-pad for boots and shoes. L. R. Bandler. Nos. 54,229-30; Dec. 2; v. 269; p. 151.
- Rug. A. C. McGugin. No. 53,925; Oct. 7; v. 267; p. 140.
- Saucepan, Berlin. W. Luttringhaus. No. 53,454; June 17; v. 263; p. 460.
- Scale-frame. W. F. Stimpson. No. 52,901; Jan. 14; v. 258; p. 430.
- Scholar's companion and puzzle, Combined. A. Zisk. No. 53,391; May 27; v. 262; p. 630.
- Scissors, Pair of. F. H. Rauh. No. 53,607; July 15; v. 264; p. 517.
- Scissors, Pair of manicure-. F. H. Rauh. No. 53,606; July 15; v. 264; p. 516.
- Scraper. J. S. Ellis. Nos. 54,310-11; Dec. 23; v. 269; p. 677.
- Screw-driver handle. J. L. Sommer. No. 54,142; Nov. 4; v. 268; p. 163.
- Seat. F. O. White. No. 54,343; Dec. 23; v. 269; p. 683.
- Seesaw. T. E. Jordan and G. J. Henry. No. 54,267; Dec. 9; v. 269; p. 346.
- Separator-casing. H. J. Young. No. 54,116; Nov. 4; v. 268; p. 158.
- Service-pin. C. E. Smith. No. 53,381; May 27; v. 262; p. 628.
- Settee and phonograph-cabinet, Combined. J. S. Blankinship. No. 53,431; June 17; v. 263; p. 456.
- Sewing-machine bracket-arm. A. H. De Voe. Nos. 54,299-300; Dec. 9; v. 269; p. 351.
- Sewing-machine cabinet, Drop-head-. A. H. Troyke. No. 54,341; Dec. 23; v. 269; p. 682.
- Sewing-machine frame. J. M. Merrow. No. 53,929; Oct. 7; v. 267; p. 141.
- Sewing-machine frame. L. Onderdonk. No. 52,854; Jan. 7; v. 258; p. 205.
- Sewing-machine frame. S. G. Tate. Nos. 52,860-1; Jan. 7; v. 258; pp. 206-7.
- Shade. N. Kopp. No. 54,103; Nov. 4; v. 268; p. 156.
- Shade and curtain bracket, Combination. J. J. Allen. No. 53,027; Mar. 4; v. 260; p. 177.
- Shampooing apparatus. W. Faerber. No. 53,847; Sept. 16; v. 266; p. 423.
- Shaving and dressing stand. L. Goodman. No. 53,363; May 27; v. 262; p. 625.
- Shield. G. C. Gill. No. 54,210; Nov. 18; v. 268; p. 525.
- Shingle. R. L. Woodruff. No. 54,160; Nov. 4; v. 268; p. 166.
- Shirt. M. A. Selsor. No. 53,089; Mar. 11; v. 260; p. 377.
- Shoe. A. Johnson. No. 54,215; Nov. 18; v. 268; p. 526.
- Shoe-heel tread-plate. I. Henne. No. 53,502; July 8; v. 264; p. 330.
- Shoe ornament. S. Rivelis. No. 53,751; Aug. 26; v. 265; p. 588.
- Shoe-retainer. V. Benedetti. No. 53,233; Apr. 29; v. 261; p. 939.
- Shrine, Miniature. J. Pokojni. No. 54,332; Dec. 23; v. 269; p. 681.
- Sifter-top can. M. H. Connor. No. 54,197; Nov. 18; v. 268; p. 522.
- Sifter-top can or similar receptacle. M. H. Connor. No. 53,360; May 27; v. 262; p. 625.
- Sifter-top can or similar receptacle. L. Gerhardt. No. 54,204; Nov. 18; v. 268; p. 524.
- Sign-post. D. S. McDannell, Jr. (Reissue). No. 14,711; Aug. 19; v. 265; p. 432.
- Signal-horn. J. E. Genn. No. 53,220; Apr. 22; v. 261; p. 779.
- Signal-horn casing. H. H. Boyce. No. 53,702; Aug. 19; v. 265; p. 435.
- Signal, Vehicle-. T. B. Powers. Nos. 54,181-2; Nov. 11; v. 268; p. 340.
- Signal, Warning-. E. Aufero. No. 52,941; Feb. 4; v. 259; p. 160.
- Signaling device. W. D. Stowe. No. 53,055; Mar. 4; v. 260; p. 182.
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- Silk, Printed. J. H. Bunting. Nos. 53,354-8; May 27; v. 262; p. 624.
- Silk, Printed. J. H. Bunting. Nos. 53,433-4; June 17; v. 263; p. 456.
- Silk, Printed. H. F. Dommange, Jr. No. 53,491; July 8; v. 264; p. 328.
- Silk, Printed. A. Eisele. Nos. 53,294-5; May 13; v. 262; p. 286.
- Silk, Printed. A. Eisele. No. 53,493; July 8; v. 264; p. 329.
- Silk, Printed. L. F. Orcutt. No. 53,459; June 17; v. 263; p. 461.
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- Silk, Printed. W. G. Reith. Nos. 53,463-6; June 17; v. 263; pp. 461-2.
- Silk, Printed. W. G. Reith. No. 53,527; July 8; v. 264; p. 334.
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- Skee. S. Moilanen. No. 54,113; Nov. 4; v. 268; p. 158.
- Slicing-machine frame. F. A. Wygant. No. 53,551; July 8; v. 264; p. 338.
- Soap and other toilet articles, Wall-receptacle for. S. D. Baker. Nos. 53,550-7; July 15; v. 264; pp. 508-9.
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- Soap or similar article, Cake of. A. Steiner. No. 53,537; July 8; v. 264; p. 335.
- Socket, Plural. W. M. Parker. No. 53,640; July 22; v. 264; p. 678.
- Soda-fountain. S. H. Knight. No. 54,102; Nov. 4; v. 268; p. 156.
- Soda-fountain dispenser and container. S. H. Knight. No. 54,100; Nov. 4; v. 268; p. 156.
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- Sound-producing instruments, Casing for automatic. W. H. Eggebrecht. No. 53,067; Mar. 11; v. 260; p. 373.
- Sound-producing instruments, Casing for automatic. W. H. Eggebrecht. Nos. 53,573-4; July 15; v. 264; p. 511.
- Sound-transmitter. L. Steinberger. Nos. 53,090-1; Mar. 11; v. 260; p. 377.
- Spark-plug. J. D. M. Gray. No. 53,239; Apr. 29; v. 261; p. 940.
- Spark-plug. J. E. Rich. No. 54,353; Dec. 30; v. 269; p. 852.
- Spark-plug. O. C. Rohde. No. 53,529; July 8; v. 264; p. 334.
- Spark-plug. O. C. Rohde. Nos. 53,859-66; Sept. 16; v. 266; pp. 425-6.
- Spark-plug core. O. C. Rohde. No. 54,128; Nov. 4; v. 268; p. 160.
- Spark-plug tool. W. E. Rosel. No. 53,641; July 22; v. 264; p. 678.
- Speedometer face-plate. J. Berge. Nos. 53,216-17; Apr. 22; v. 261; p. 778.
- Spoon and fork, Combined. J. Wolsten. Nos. 53,170-1; Apr. 1; v. 261; p. 187.
- Spoon, fork, and knife, Combined. W. Janosik. No. 53,165; Apr. 1; v. 261; p. 186.
- Spoon, fork, or similar article. E. T. Beck. No. 53,875; Oct. 7; v. 267; p. 132.
- Spoon, fork, or similar article. J. E. Fraser. No. 53,296; May 13; v. 262; p. 286.
- Spoon, fork, or similar article. B. P. Jenks. No. 53,659; July 29; v. 264; p. 844.
- Spoon, fork, or similar article. A. G. Kintz. No. 53,074; Mar. 11; v. 260; p. 374.
- Spoon, fork, or similar article. J. Leech. No. 53,075; Mar. 11; v. 260; p. 374.
- Spoon, fork, or similar article. G. C. Lunt. No. 53,685; Aug. 5; v. 265; p. 126.
- Spoon, fork, or similar article. F. Schwinn. No. 53,277; May 6; v. 262; p. 145.
- Spoon, fork, or similar article. G. Strohaker. No. 53,056; Mar. 4; v. 260; p. 182.
- Spoon, Single-service wooden. B. A. Grasberger. Nos. 53,587-8; July 15; v. 264; p. 514.
- Spoon, Wooden. B. J. Grasberger. No. 52,878; Jan. 14; v. 258; p. 426.
- Spoons, forks, or similar articles, Handle for. W. F. Kingman. No. 53,594; July 15; v. 264; p. 515.
- Spoons, &c., Handle for. H. E. Nock. Nos. 54,177-9; Nov. 11; v. 268; p. 339.
- Spring contact-arm. A. A. Kent. No. 53,852; Sept. 16; v. 266; p. 424.
- Stall partition. C. M. Stevenson. No. 53,947; Oct. 7; v. 267; p. 144.
- Stamp, Time-. M. Sheras. No. 53,053; Mar. 4; v. 260; p. 181.
- Stand, Beverage-dispensing. C. M. Earl. No. 53,708; Aug. 19; v. 265; p. 436.
- Stand, Caster-. C. and D. Campbell and M. H. McGill. No. 53,566; July 15; v. 264; p. 510.
- Stand, Clothes-. C. and D. Campbell and M. N. McGill. No. 54,060; Nov. 4; v. 268; p. 149.
- Stand, Gasolene-pump. G. F. Gill. No. 53,965; Oct. 14; v. 267; p. 326.
- Stand, Work-. I. H. Weinberg. No. 53,058; Mar. 4; v. 260; p. 182.
- Standard. V. F. von Lossberg. No. 53,187; Apr. 8; v. 261; p. 395.
- Standard. V. F. von Lossberg. No. 53,188; Apr. 8; v. 261; p. 395.
- Standard. V. F. von Lossberg. No. 53,189; Apr. 8; v. 261; p. 396.
- Standard, Machine-. L. Broemel. No. 53,432; June 17; v. 263; p. 456.
- Stapling and fastening machine casing. M. R. Hutchison. No. 53,072; Mar. 11; v. 260; p. 374.
- Statue. H. Franklin. No. 53,900; Oct. 7; v. 267; p. 136.
- Statuette. E. E. Allen. No. 53,026; Mar. 4; v. 260; p. 177.
- Statuette. E. E. Allen. No. 53,349; May 27; v. 262; p. 628.
- Statuette. E. E. Allen. No. 53,552; July 15; v. 264; p. 508.
- Statuette. L. A. Mapel. No. 53,042; Mar. 4; v. 260; p. 179.
- Statuette, doll, or similar article. A. J. Ziv. No. 63,626; July 15; v. 264; p. 520.
- Statuette or figure. F. Bischoitz. No. 53,701; Aug. 19; v. 265; p. 434.
- Statuette or similar article. H. Elliott. No. 53,119; Mar. 25; v. 260; p. 711.
- Statuette or similar article. R. Smith. No. 53,716; Aug. 19; v. 265; p. 437.
- Statuette or similar ornament. W. G. Flint. No. 52,871; Jan. 14; v. 258; p. 425.
- Stocking. W. E. Chipman. No. 53,435; June 17; v. 263; p. 457.
- Stove-foot. F. A. Gercich. No. 53,221; Apr. 22; v. 261; p. 779.
- Stove. F. Kuhn and J. A. Hand. No. 53,416; June 10; v. 263; p. 308.
- Stove. M. R. Lehman. Nos. 54,269-70; Dec. 9; v. 269; p. 346.
- Stove. N. Rozyk. No. 54,129; Nov. 4; v. 268; p. 161.
- Stove. A. Sokolowski. No. 53,717; Aug. 19; v. 265; p. 437.
- Stove, Gas and coal combination-. C. R. Graham. No. 54,080; Nov. 4; v. 268; p. 153.
- Stove or range. T. E. Taylor. No. 54,148; Nov. 4; v. 268; p. 164.
- Stove top, Gas-. G. Finn. No. 53,439; June 17; v. 263; p. 457.
- Stovepipe-reducer. M. Jones. No. 53,504; July 8; v. 264; p. 330.
- Surf-rider. J. P. McCarty and F. W. Falck. No. 54,109; Nov. 4; v. 268; p. 157.
- Sweater. I. E. Tebo. No. 53,646; July 22; v. 264; p. 679.
- Sweeper casing, Suction-. F. H. Burgher. No. 53,115; Mar. 25; v. 260; p. 710.
- Sweepers, Bag for suction-. H. E. Hoover. No. 53,222; Apr. 22; v. 261; p. 779.
- Switch base, Two-pole entrance-. T. A. Both. No. 53,162; Apr. 1; v. 261; p. 186.
- Switch base, Two-wire single-branch panel-. T. A. Both. No. 53,163; Apr. 1; v. 261; p. 186.
- Switchboard. P. Kurtz. No. 53,180; Apr. 8; v. 261; p. 394.
- Table-crumb-sweeper casing. L. K. Suttle. No. 53,184; Apr. 8; v. 261; p. 395.
- Tablet, Memorial. A. Dreyfus. No. 52,866; Jan. 14; v. 258; p. 425.
- Tablet, Memorial. M. J. Healy. No. 53,848; Sept. 16; v. 266; p. 423.
- Tablet, Memorial. O. I. Price. No. 54,125; Nov. 4; v. 268; p. 160.
- Tablet, plate, frame, or the like, Record. S. F. Hammons. No. 53,301; May 13; v. 262; p. 287.
- Tablet, Service and memorial. W. F. Mathues. No. 54,107; Nov. 4; v. 268; p. 157.
- Tablet, Service and memorial. W. F. Mathues. No. 54,351; Dec. 30; v. 269; p. 852.
- Tachometer-casing. J. W. Jones. No. 53,270; May 6; v. 262; p. 144.
- Tack or nail. C. K. Hill. No. 54,088; Nov. 4; v. 268; p. 154.
- Tag. C. C. Riefsnyder. No. 53,156; Apr. 1; v. 261; p. 185.
- Tail-light for automobiles. C. O. Mathews. No. 53,248; Apr. 29; v. 261; p. 942.
- Talcum-powder box. H. R. Corey. Nos. 54,244-5; Dec. 9; v. 269; p. 341.
- Talcum-powder cans, Closure for. W. G. Kendall. No. 52,992; Feb. 11; v. 259; p. 358.
- Tank-bulb. R. M. Pierson. No. 54,223; Nov. 18; v. 268; p. 527.
- Target. J. E. Buckley. No. 53,881; Oct. 7; v. 267; p. 133.
- Target, Revolvable or rotatable. T. H. Johnson. No. 53,914; Oct. 7; v. 267; p. 138.
- Tea-kettle. C. W. Goebel. No. 52,950; Feb. 4; v. 259; p. 162.
- Tea-kettle, double boiler and distiller. C. W. Goebel. No. 52,951; Feb. 4; v. 259; p. 162.
- Teapot. S. G. Wilkes. Nos. 54,188-9; Nov. 11; v. 268; p. 341.
- Telephone-earpiece or similar phonetic device. H. G. Pape. No. 53,460; June 17; v. 263; p. 461.
- Telephone-receiver holder. G. K. Thompson. No. 53,093; Mar. 11; v. 260; p. 377.
- Telephone-receiver support. J. A. Wotton. No. 53,000; Feb. 11; v. 259; p. 360.
- Telephone-receiver, Support for a. S. M. Knapp. No. 54,322; Dec. 23; v. 269; p. 679.
- Telephone set, Wall. J. S. Timmons. No. 53,540; July 8; v. 264; p. 336.

- Textile fabric. A. J. Graffin. No. 53,364; May 27; v. 262; p. 625.
- Thermometer-bulbs, Protective cap for. L. F. Chaney. No. 53,883; Oct. 7; v. 267; p. 133.
- Thermometer-support. H. Y. Norwood. No. 54,352; Dec. 30; v. 269; p. 852.
- Ticket-dispensing machines, Casing for. J. F. Dwyer. No. 53,678; Aug. 5; v. 265; p. 125.
- Timepiece-dial. E. L. Hull. No. 53,245; Apr. 29; v. 261; p. 941.
- Timepiece-dial, Symbolic. P. K. Post. No. 54,180; Nov. 11; v. 268; p. 340.
- Tire. H. C. Arnold. No. 53,108; Mar. 25; v. 260; p. 700.
- Tire. A. E. Braden. No. 53,100; Mar. 18; v. 260; p. 545.
- Tire. W. B. Buckley. No. 53,653; July 29; v. 264; p. 843.
- Tire. J. Christy. No. 54,063; Nov. 4; v. 268; p. 150.
- Tire. E. H. Cooper. No. 53,292; May 13; v. 262; p. 285.
- Tire. H. G. Egbert. No. 54,348; Dec. 30; v. 269; p. 852.
- Tire. H. H. Forrest. No. 53,899; Oct. 7; v. 267; p. 136.
- Tire. E. O. Fritch. No. 53,494; July 8; v. 264; p. 329.
- Tire. C. W. Greene. No. 53,709; Aug. 19; v. 265; p. 436.
- Tire. E. Hopkinson. No. 53,223; Apr. 22; v. 261; p. 779.
- Tire. E. Hopkinson. No. 54,261; Dec. 9; v. 269; p. 344.
- Tire. G. Hubach. Nos. 54,262-4; Dec. 9; v. 269; p. 345.
- Tire. J. W. Maguire. No. 52,893; Jan. 14; v. 258; p. 429.
- Tire. J. W. Maguire. No. 54,324; Dec. 23; v. 269; p. 679.
- Tire. E. L. McKimm. No. 53,855; Sept. 16; v. 266; p. 425.
- Tire. A. L. Meeks. No. 53,511; July 8; v. 264; p. 331.
- Tire. H. D. Mitchell. No. 53,083; Mar. 11; v. 260; p. 376.
- Tire. C. L. Moody and T. Midgley. No. 54,114; Nov. 4; v. 268; p. 158.
- Tire. C. E. Murray, Jr. No. 54,278; Dec. 9; v. 269; p. 347.
- Tire. F. A. Oberheu. No. 53,931; Oct. 7; v. 267; p. 141.
- Tire. A. L. Pashek. No. 52,962; Feb. 4; v. 259; p. 164.
- Tire. A. E. Pearce. No. 53,971; Oct. 14; v. 267; p. 327.
- Tire. E. S. Phillips. Nos. 54,120-1; Nov. 4; v. 268; p. 159.
- Tire. F. C. Plouf. No. 54,281; Dec. 9; v. 269; p. 348.
- Tire. C. Spreckels. Nos. 54,286-7; Dec. 9; v. 269; p. 349.
- Tire. J. Stunney. No. 53,278; May 6; v. 262; p. 145.
- Tire. J. Tenney, Jr. No. 54,291; Dec. 9; v. 269; p. 350.
- Tire. C. B. Whittelsey. No. 52,975; Feb. 4; v. 259; p. 166.
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- Tire-casing. O. L. Weaver. No. 54,153; Nov. 4; v. 268; p. 165.
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- Trousers. A. Sollen. No. 54,284; Dec. 9; v. 269; p. 348.
- Truck. E. H. Dale. No. 53,843; Sept. 16; v. 266; p. 423.
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- Valve casing and handle, Radiator-. J. F. Brightman. No. 53,405; June 10; v. 263; p. 306.
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- Velocipede. J. F. Jones. No. 53,127; Mar. 25; v. 260; p. 712.
- Velocipede, Child's. G. Eklund. No. 53,897; Oct. 7; v. 267; p. 136.
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- Vending-machine. G. E. Messinger. Nos. 53,272-4; May 6; v. 262; p. 144.
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- Vending-machine casing. E. A. Bolen. No. 53,876; Oct. 7; v. 267; p. 132.
- Wafer. F. B. Peterson. No. 52,856; Jan. 7; v. 258; p. 206.
- Waist. B. Schultz. No. 53,536; July 8; v. 264; p. 335.
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- Watch-bow. J. McGrevy. No. 53,078; Mar. 11; v. 260; p. 375.
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- Watch-dial. A. Levin and J. Medin. No. 53,420; June 10; v. 263; p. 309.
- Watch-face protector. G. J. Lederer. No. 52,845; Jan. 7; v. 258; p. 204.
- Watch-holder. C. R. Johnson. No. 53,246; Apr. 29; v. 261; p. 941.
- Watch-movement frame. W. W. Dudley. No. 53,492; July 8; v. 264; p. 328.
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- Watchcase. A. Levin and J. Medin. Nos. 53,418-19; June 10; v. 263; p. 308.
- Watchcase or similar article. M. Weiner and W. Loeb. No. 53,025; Feb. 25; v. 259; p. 758.
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- Water-closet tank, Lid for a. W. W. Slack. No. 54,136; Nov. 4; v. 268; p. 162.

- Water-heater. C. Dargent. No. 53,844; Sept. 16; v. 266; p. 423.
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- Wheel. W. J. P. Moore. No. 53,426; June 10; v. 263; p. 309.
- Wheel. W. J. P. Moore. No. 53,639; July 22; v. 264; p. 678.
- Wheel, Tractor-. W. S. Stothoff. No. 54,288; Dec. 9; v. 269; p. 349.
- Wheel, Vehicle-. R. H. West. Nos. 53,543-4; July 8; v. 264 pp. 331-7.
- Wheel, Wind-. H. J. Deutsch. No. 53,490; July 8; v. 264; p. 328.
- Wheel, Wind-. T. M. Samour. No. 53,469; June 17; v. 263; p. 462.
- Wind-shield. C. D. Keller. No. 54,097; Nov. 4; v. 268; p. 155.
- Wind-shield cleaner. J. F. White. No. 53,348; May 20; v. 262; p. 455.
- Windlass standard and casing. T. J. King. No. 54,268; Dec. 9; v. 269; p. 346.
- Wire-entanglement cutter. O. Pergl. No. 53,104; Mar. 18; v. 260; p. 546.
- Wrapper. M. S. Trop. No. 53,024; Feb. 25; v. 259; p. 758.
- Wrench. J. A. Marcmann. No. 53,597; July 15; v. 264; p. 515.
- Wrench. W. F. Roberts. No. 54,127; Nov. 4; v. 268; p. 160.
- Wrench. L. L. Walton. No. 53,620; July 15; v. 264; p. 519.
- Wrench. M. Volpe. No. 54,293; Dec. 9; v. 269; p. 350.
- Wrench and screw-driver, Combined. T. S. Cobb. No. 53,569; July 15; v. 264; p. 511.
- Wrench and tire-tool, Combined. H. B. Light and E. B. Lake. No. 53,969; Oct. 14; v. 267; p. 327.
- Writing attachment. J. Bettum. No. 52,906; Jan. 28; v. 258; p. 788.

## ALPHABETICAL LIST OF TRADE-MARKS.

- Abrasive, detergent, and polishing materials, Certain named. L. Starr. No. 124,346; Feb. 4; v. 259; p. 179.
- Abrasive, detergent, and polishing materials, Certain named. J. Telenga Export & Trading Corporation. No. 124,350; Feb. 4; v. 259; p. 179.
- Abrasive, detergent, &c., materials. The Northwestern Chemical Co. No. 128,250; Dec. 30; v. 269; p. 881.
- Abrasive, detergent, &c., materials. H. W. Preller. No. 128,255; Dec. 30; v. 269; p. 882.
- Abrasive materials and tools. Wonder Stone Co. No. 126,504; Aug. 26; v. 265; p. 631.
- Abrasive products. Norton Company. No. 128,252; Dec. 30; v. 269; p. 882.
- Acid phenylcinchoninic. Schering & Glatz. No. 126,774; Sept. 30; v. 266; p. 737.
- Acid preparations, Acetylsalicylic. The Eli Lilly and Company. No. 126,676; Sept. 30; v. 266; p. 734.
- Account-finding machines, Automatic. Liberty Systems Corporation. No. 125,825; June 17; v. 263; p. 478.
- Adhesives, Certain named. Union Fibre Company. No. 124,271; Jan. 28; v. 258; p. 811.
- Advertising letters, circulars, and leaflets. Bert L. White Company. No. 124,177; Jan. 14; v. 258; p. 446.
- Advertising machines, Electric. United Advertising & Sales Co. Nos. 127,152-3; Oct. 21; v. 267; p. 482.
- Aeroplanes and flying boats. The Engel Aircraft Company. No. 125,902; July 8; v. 264; p. 349.
- Agricultural machinery. Advance-Rumely Co. No. 126,811; Sept. 30; v. 266; p. 739.
- Air-purifiers. Autosales Corporation of Detroit. No. 127,317; Nov. 11; v. 268; p. 369.
- Airplane-propellers. The Jamestown Propeller Company. No. 124,391; Feb. 11; v. 259; p. 380.
- Airplanes. Gallaudet Aircraft Corporation. No. 127,400; Nov. 11; v. 268; p. 372.
- Alcohol, Ethyl, &c. U. S. Industrial Alcohol Co. No. 125,180; Apr. 15; v. 261; p. 627.
- Alcohol, Solidified. Basic Products Corporation. No. 127,580; Nov. 18; v. 268; p. 557.
- Ale, lager, and porter. Home Brewing Co. No. 125,813; June 17; v. 263; p. 478.
- Alimentary paste—viz., macaroni, spaghetti, noodles. A. J. Hadert. No. 125,138; Apr. 15; v. 261; p. 625.
- Alimentary paste products. Ravarino & Freschi Importing & Mfg. Co. No. 125,361; May 13; v. 262; p. 310.
- Alloys, Aluminum. United Smelting & Aluminum Company. No. 127,695; Nov. 18; v. 268; p. 560.
- Alloy, Babbitt. Syracuse Smelting Works. No. 125,255; Apr. 22; v. 261; p. 797.
- Alloys containing chromium and nickel. Hoskins Manufacturing Company. No. 124,928; Mar. 25; v. 260; p. 729.
- Alloys. Hoskins Manufacturing Company. No. 127,841; Dec. 9; v. 269; p. 388.
- Alloys, Non-ferrous. A. Allan & Son. No. 126,507; Sept. 16; v. 266; p. 445.
- Alloys, Non-ferrous. A. Allan & Son. No. 126,916; Oct. 14; v. 267; p. 335.
- Alloys, Pyrophoric or sparking metal. New Process Metals Co. No. 126,191; July 29; v. 264; p. 861.
- Alternative, hematic stimulant, and medicine for coughs, &c. Nyal Company. No. 126,048; July 22; v. 264; p. 698.
- Aluminum utensils. Aluminum Ware Manufacturing Co. No. 126,119; July 29; v. 264; p. 859.
- Aluminum utensils, Certain named. The Geo. H. Bowman Co. No. 124,288; Feb. 4; v. 259; p. 177.
- Aminobenzoic-acid alkalin esters and derivatives thereof for use as a local anesthetic. Société Chimique des Usines du Rhône Ancienement Gillard, P. Monnet et Cartier. No. 124,420; Feb. 11; v. 259; p. 381.
- Ammonium, ichtho sulfonate. Sunbeam Chemical Company. No. 126,791; Sept. 30; v. 266; p. 738.
- Ammonium sulfate. United States Steel Products Company. No. 126,101; July 22; v. 264; p. 699.
- Ammonium sulfoethylsulfonate. G. W. Guidi. No. 125,218; Apr. 22; v. 261; p. 796.
- Ampuls made of glass. G. W. Carrick Co. No. 124,673; Mar. 11; v. 260; p. 385.
- Anesthetic and hemostatic. J. F. Singer. No. 124,418; Feb. 11; v. 259; p. 381.
- Anesthetics, Local. The Wingate Chemical Co. No. 125,715; June 3; v. 263; p. 164.
- Anodyne cream for the treatment of rheumatism, neuralgia, &c. E. Lassere. No. 124,552; Feb. 25; v. 259; p. 772.
- Antipyretic and analgesic medical preparation. Etna Chemical Company. No. 127,039; Oct. 21; v. 267; p. 478.
- Antirheumatic, analgesic, and antipyretic. The Bayer Company, Inc. Nos. 126,636-8; Sept. 30; v. 266; p. 733.
- Antirheumatic, analgesic, and antipyretic. The Bayer Company, Inc. No. 126,812; Sept. 30; v. 266; p. 739.
- Antiseptic. Spirochide Corporation. No. 125,367; May 13; v. 262; p. 310.
- Antiseptic and germicide. C. C. Booth. No. 126,389; Aug. 26; v. 265; p. 627.
- Antiseptic and germicide. O. Lauer. No. 126,710; Sept. 30; v. 266; p. 736.
- Antiseptic for dental and medicinal uses. C. E. Summers. No. 124,160; Jan. 14; v. 258; p. 446.
- Antiseptic, insecticide, and disinfectant for live stock. Parson's Chemical Works. No. 126,333; Aug. 19; v. 265; p. 454.
- Antiseptic ointment for burns, &c. Josephine W. Toombs. No. 126,362; Aug. 19; v. 265; p. 455.
- Antiseptic solutions and salves. Reso Products Co., Ltd. No. 127,485; Nov. 11; v. 268; p. 374.
- Antiseptic solutions and salves. Reso Products Co. No. 127,671; Nov. 18; v. 268; p. 560.
- Antiseptics. Makitol Company. No. 126,313; Aug. 19; v. 265; p. 453.
- Antiseptics and disinfectants. J. Papperman. No. 126,743; Sept. 30; v. 266; p. 737.
- Antiseptics, disinfectants, germicides. H. Romognino. No. 125,504; May 20; v. 262; p. 476.
- Aperient reconstituent pills and preparations. Leon Brothers. No. 127,079; Oct. 21; v. 267; p. 480.
- Apparel and furnishings, Wearing. Robert Reis & Co. No. 125,507; May 20; v. 262; p. 477.
- Apparel. Children's and infants'. Carson, Pirie, Scott & Co. No. 126,826; Oct. 7; v. 267; p. 177.
- Apparel for men and women. Wearing. M. R. & G. Frank. No. 127,896; Nov. 11; v. 268; p. 371.
- Apparel, Ladies' outer. Samuel Stores, Inc. No. 125,847; June 17; v. 263; p. 479.
- Apparel, Ladies' wearing. M. N. Hyman. No. 125,815; June 17; v. 263; p. 478.
- Apparel, Ladies' wearing. L. Levy. No. 126,033; July 22; v. 264; p. 697.
- Apparel, Men's, boys', and children's outer wearing. A. Bauman. No. 125,959; July 22; v. 264; p. 695.
- Apparel, Men's outer. Samuel Stores, Inc. No. 124,266; Jan. 28; v. 258; p. 810.
- Apparel, Men's outer wearing. Saks & Company. No. 125,843; June 17; v. 263; p. 479.
- Apple-juice, Pure. Virginia Fruit Juice Co. No. 124,944; Mar. 25; v. 260; p. 729.
- Apples. Boston-Okanogan Apple Co. No. 127,716; Dec. 2; v. 269; p. 185.
- Apples and cherries, Fresh. Tonderold & Lewis. No. 125,178; Apr. 15; v. 261; p. 626.
- Apples and pears, Fresh. Northwestern Fruit Exchange. No. 124,866; Mar. 18; v. 260; p. 556.
- Apples, Evaporated. Northwest Evaporating Company. No. 128,251; Dec. 30; v. 269; p. 881.



*Alphabetical list of trade-marks—Continued.*

- Apples, Fresh. Sheridan Investment Company. No. 126,079; July 22; v. 264; p. 699.
- Architectural, &c., data, Loose-leaf sheets containing. Architectural Service Corporation. No. 126,378; Aug. 26; v. 265; p. 627.
- Armbands. Eagle Garter Company. No. 125,131; Apr. 15; v. 261; p. 625.
- Art feature. Public Ledger Company. No. 127,866; Dec. 9; v. 269; p. 389.
- Articles made of compounds of pyroxylin, Certain named. Celluloid Company. Nos. 124,226-7; Jan. 28; v. 258; p. 809.
- Articles made of compounds of pyroxylin, Certain named. Celluloid Company. Nos. 125,028-9; Apr. 8; v. 261; p. 405.
- Asafetida, Glycerinized. McCormick & Co. No. 125,153; Apr. 15; v. 261; p. 626.
- Ash-sifter. C. M. Drinkwater. No. 125,419; May 20; v. 262; p. 474.
- Asphalt and cement composition shingles, &c., for roofing. The Complete Roofing Co. No. 124,190; Jan. 21; v. 258; p. 641.
- Aspirin tablets. Smith, Kline & French Co. No. 126,617; Sept. 23; v. 266; p. 593.
- Athletic goods, shirts, &c. M. B. Fredericks. No. 126,005; July 22; v. 264; p. 696.
- Automobile and furniture polish. H. H. Brundage. No. 125,778; June 17; v. 263; p. 477.
- Automobile and furniture polish. H. L. Feasel. No. 124,703; Mar. 11; v. 260; p. 386.
- Automobile and furniture polish. Crew Levick Company. No. 124,513; Feb. 25; v. 259; p. 771.
- Automobile baggage-strap. E. W. Eaton. No. 124,234; Jan. 28; v. 258; p. 809.
- Automobile-body and furniture polishes. G. H. Irvine. No. 125,742; June 10; v. 263; p. 327.
- Automobile electric-light switches, &c. W. F. Penrod. No. 127,475; Nov. 11; v. 268; p. 374.
- Automobile finish and paint preserver. Good Chemical Company. No. 124,305; Feb. 4; v. 259; p. 178.
- Automobile-frames. Hydraulic Pressed Steel Company. No. 126,169; July 29; v. 264; p. 860.
- Automobile, furniture, &c., polish. Lindy Specialty Company. No. 128,108; Dec. 23; v. 269; p. 698.
- Automobile-polish. E. A. Ford. No. 124,707; Mar. 11; v. 260; p. 387.
- Automobile-radiators. The A-Z Co. No. 125,017; Apr. 8; v. 261; p. 405.
- Automobile-radiators. Ideal Sheet Metal Works. No. 127,954; Dec. 16; v. 269; p. 542.
- Automobile-radiators. Lober Art Brass & Specialty Co. No. 124,741; Mar. 11; v. 260; p. 388.
- Automobile reach and radius rods, &c. The Schweppe & Wilt Manufacturing Company. No. 127,500; Nov. 11; v. 268; p. 375.
- Automobile robes and shawls and steamer-blankets. The Colonial Woolen Mills Co. No. 124,443; Feb. 18; v. 259; p. 571.
- Automobile signal-whistle. Liberty Accessories Corporation. No. 124,320; Feb. 4; v. 259; p. 178.
- Automobile steering-gears. C. A. S. Engineering Co. No. 124,699; Mar. 11; v. 260; p. 386.
- Automobile steering-rods, Device to prevent rattling of. Simmons Manufacturing Company. No. 126,609; Sept. 23; v. 266; p. 593.
- Automobile-trucks. Brooklyn Automobile Company. No. 125,613; June 3; v. 263; p. 161.
- Automobile, water-craft, &c., polishing preparation. U-Auto Varnish Company. No. 128,190; Dec. 23; v. 269; p. 700.
- Automobiles. Classic Motor Car Corporation. No. 125,032; Apr. 8; v. 261; p. 405.
- Automobiles. Essex Motors. No. 126,596; Sept. 23; v. 266; p. 593.
- Automobiles. Knox Motors Company. No. 126,553; Sept. 16; v. 266; p. 446.
- Automobiles. Oakland Motor Car Co. of Michigan. Nos. 124,571-2; Feb. 25; v. 259; p. 773.
- Automobiles. Paige-Detroit Motor Car Company. No. 124,985; Apr. 1; v. 261; p. 198.
- Automobiles. The White Motor Company. No. 126,974; Oct. 14; v. 267; p. 337.
- Automobiles and automobile-trucks. Chicago Pneumatic Tool Company. No. 125,620; June 3; v. 263; p. 161.
- Automobiles and motor-trucks. Harroun Motors Corporation. No. 124,384; Feb. 11; v. 259; p. 379.
- Automobiles and trucks. McFarlan Motor Company. No. 126,715; Sept. 30; v. 266; p. 736.
- Automobiles and trucks. Mercer Automobile Company. No. 126,815; Sept. 30; v. 266; p. 739.
- Automobiles into tractors and parts thereof, Attachments for converting. Geneva Tractor Company. No. 126,422; Aug. 26; v. 265; p. 628.
- Automobiles, Locks for central levers for. H-R Manufacturing Company. No. 124,847; Mar. 18; v. 260; p. 556.
- Automobiles, Luggage-carriers for. G. R. Lyman. No. 126,559; Sept. 16; v. 266; p. 446.
- Automobiles, wagons, trucks, &c. The Turnbull Motor Truck and Wagon Co. No. 125,683; June 3; v. 263; p. 163.
- Awnings. Stix, Baer & Fuller Dry Goods Co. No. 125,368; May 13; v. 262; p. 310.
- Awnings, tents, &c. Buffalo Awning & Tent Mfg. Co. No. 124,369; Feb. 11; v. 259; p. 379.
- Axes, saws, hammers, &c. Dixon Tool Co. No. 125,418; May 20; v. 262; p. 474.
- Axles, Drive. Russel Motor Axle Company. No. 127,675; Nov. 18; v. 268; p. 560.
- Axles, worms, and grease for motor-vehicles. The Timken-Detroit Axle Company. No. 124,164; Jan. 14; v. 258; p. 446.
- Baby-carriages and go-carts. Heywood Brothers and Wakefield Company. No. 124,385; Feb. 11; v. 259; p. 380.
- Baby-pants. I. B. Kleinert Rubber Company. No. 127,565; Nov. 11; v. 268; p. 377.
- Bacon and hams. W. J. Shaw & Sons (Limerick). No. 126,778; Sept. 30; v. 266; p. 738.
- Bacon and hams. P. F. Skinner. No. 125,251; Apr. 22; v. 261; p. 797.
- Bacon, ham, meat products, Certain named. The Rath Packing Company. No. 124,338; Feb. 4; v. 259; p. 179.
- Bacteria, Nitrogen-fixing. J. McQueen. No. 124,125; Jan. 14; v. 258; p. 444.
- Bag, Garment. C. Rosenthal. No. 126,961; Oct. 14; v. 267; p. 336.
- Bags and cases, Tool. Simmons Hardware Company. No. 126,966; Oct. 14; v. 267; p. 336.
- Bags, Burlap. Marshall Field & Company. No. 126,187; July 29; v. 264; p. 861.
- Bags with paper-cord handles, Half. Interstate Bag Co. No. 128,087; Dec. 23; v. 269; p. 697.
- Baking-powder. R. B. Davis Company. Nos. 125,983-4; July 22; v. 264; p. 696.
- Baking-powder. Native Products Co. No. 125,708; June 3; v. 263; p. 164.
- Baking-powder. Roads Brothers Manufacturing Co. No. 124,410; Feb. 11; v. 259; p. 380.
- Baking-powder and salt. California Packing Corporation. No. 124,081; Jan. 14; v. 258; p. 443.
- Baking powder and soda. Layton Pure Food Company. No. 124,735; Mar. 11; v. 260; p. 387.
- Balls, Antifriction. Hoover Steel Ball Company. No. 126,548; Sept. 16; v. 266; p. 446.
- Balls, Golf. The North British Rubber Co. No. 126,567; Sept. 16; v. 266; p. 446.
- Balls, Golf. Worthington Ball Company. No. 127,303; Nov. 4; v. 268; p. 188.
- Balls, Playing. A. G. Spalding & Bros. No. 126,090; July 22; v. 264; p. 699.
- Balm, Antiseptic and healing. W. Taylor. No. 125,765; June 10; v. 263; p. 328.
- Balm, Foot. Dr. R. M. Smith. No. 124,773; Mar. 11; v. 260; p. 389.
- Bandages for medical and surgical purposes, Crape. Norwich Crape Company 1856, The. No. 124,867; Mar. 18; v. 260; p. 556.
- Barn equipment, Certain named metal. James Manufacturing Company. No. 126,552; Sept. 16; v. 266; p. 446.
- Baskets, Galvanized-iron. Simmons Hardware Company. No. 126,214; July 29; v. 264; p. 862.
- Baskets, Waste. Northwestern Expanded Metal Company. No. 124,468; Feb. 18; v. 259; p. 572.
- Bath-room accessories, Certain named. W. R. Hughes. No. 126,550; Sept. 16; v. 266; p. 446.
- Bath-room fixtures, Certain named. The Winsted Hardware Mfg. Co. No. 126,589; Sept. 16; v. 266; p. 447.
- Bathing-caps. Ohio Rubber Company. No. 126,934; Oct. 7; v. 267; p. 179.
- Batteries and parts thereof, Storage. Willard Storage Battery Company. Nos. 125,772-3; June 10; v. 263; p. 328.
- Batteries, Dry. A. H. Berry. No. 127,328; Nov. 11; v. 268; p. 369.
- Batteries, Dry. Simmons Hardware Company. No. 127,134; v. 267; p. 481.
- Batteries, Electric. National Carbon Company. No. 127,454; Nov. 11; v. 268; p. 373.
- Batteries, Electric. United Battery Corporation. No. 125,260; Apr. 22; v. 261; p. 797.
- Batteries, Flash-light. I. Goldberg. No. 126,540; Sept. 16; v. 266; p. 446.
- Batteries, Storage. U-Need-It Dry Storage Battery Co. No. 125,108; Apr. 8; v. 261; p. 401.
- Battery-charging compounds, Storage. H. Bessemer. No. 127,811; Dec. 9; v. 269; p. 387.
- Bearing-balls. Steel. Metal Specialty Mfg. Co. No. 125,468; May 20; v. 262; p. 475.
- Bearing metal. The Lewin Metals Corporation. No. 127,964; Dec. 16; v. 269; p. 543.
- Bearing-metal. The Universal Bearing Company. No. 127,155; Oct. 21; v. 267; p. 482.
- Bearings, Babbitt-lined metal. Doehler Die-Casting Company. No. 127,825; Dec. 9; v. 269; p. 387.
- Bearings, Die-cast, &c. Muzzy-Lyon Co. No. 125,829; June 17; v. 263; p. 478.
- Bearings, Roller. The Timken Roller Bearing Company. No. 124,351; Feb. 4; v. 259; p. 179.
- Bearings, Thrust. Iron City Products Company. No. 124,312; Feb. 4; v. 259; p. 178.

- Bedding. The Standard Bedding Co. No. 126,485; Aug 26; v. 265; p. 630.
- Beds, Folding. Moore Manufacturing Company. No. 125,578; May 27; v. 262; p. 643.
- Bedsteads. Bernstein Manufacturing Company. No. 128,223; Dec. 30; v. 269; p. 881.
- Bedspreads. Leonard Henry Company. No. 125,347; May 13; v. 262; p. 309.
- Bedsteads, mattresses, pillows. Bernstein Manufacturing Company. No. 127,991; Oct. 21; v. 267; p. 477.
- Bellows, Molders'. The Cleveland Osborn Manufacturing Company. No. 125,199; Apr. 22; v. 261; p. 795.
- Belt-dressing. Ulmer Leather Company. No. 125,179; Apr. 15; v. 261; p. 627.
- Belt-dressing. Agrippa Manufacturing Corporation. No. 126,977; Oct. 21; v. 267; p. 477.
- Belt-dressing and belt-preserver and polishes for leather. W. H. Whitmore. No. 124,179; Jan. 28; v. 258; p. 446.
- Belt for women. Cloth athletic. L. Hosea. No. 125,814; June 17; v. 263; p. 478.
- Belts. Gates Rubber Company. No. 127,044; Oct. 21; v. 267; p. 479.
- Belts, Abdominal. Ambrose Wilson Limited. No. 124,631; Feb. 25; v. 259; p. 775.
- Belts, Conveyor-. The B. F. Goodrich Company. No. 124,711; Mar. 11; v. 260; p. 387.
- Belts for military equipment. Russell Mfg. Co. No. 127,676; Nov. 18; v. 268; p. 560.
- Belts for supporting outer garments. Marathon Tire & Rubber Company. No. 128,118; Dec. 23; v. 269; p. 698.
- Belts, garter-purses, &c., Money, &c. Leinbach & Cadman. No. 124,112; Jan. 14; v. 258; p. 444.
- Belts, Life-. Jiffy Life Belt Mfg. Corp. No. 126,702; Sept. 30; v. 266; p. 735.
- Belts, Woven fan-. The Russell Manufacturing Co. No. 124,341; Feb. 4; v. 259; p. 179.
- Belts, Woven machinery-. Russell Mfg. Co. No. 125,363; May 13; v. 262; p. 310.
- Belting. Rosendale-Reddaway Belting & Hose Co. Nos. 126,574-6; Sept. 16; v. 266; p. 447.
- Belting and belt-lacings of leather, &c. Shultz Belting Company. No. 124,153; Jan. 14; v. 258; p. 445.
- Belting, Canvas. Sawyer Belting Company. No. 128,165; Dec. 23; v. 269; p. 700.
- Belting, Canvas stitched. Victor Balata & Textile Belting Company. No. 124,491; Feb. 18; v. 259; p. 573.
- Belting, hose, &c., Certain named. Tuck and Company. No. 124,487; Feb. 18; v. 259; p. 572.
- Belting, hose, machinery packing. Doermann-Roehrer Company. No. 127,921; Dec. 16; v. 269; p. 541.
- Belting, hose, packing, tires, Certain named. United States Rubber Company. No. 126,365; Aug. 19; v. 265; p. 455.
- Belting, Leather. Charlotte Leather Belting Company. Nos. 128,029-32; Dec. 23; v. 269; p. 696.
- Belting, Leather. Edward R. Ladew Company. No. 127,072; Oct. 21; v. 267; p. 480.
- Belting, Leather. Graton & Knight Manufacturing Company. Nos. 127,614-15; Nov. 18; v. 268; p. 558.
- Belting, Leather. Graton and Knight Manufacturing Company. No. 128,074; Dec. 23; v. 269; p. 697.
- Belting, Leather. Hudson Belting Company. No. 125,056; Apr. 8; v. 261; p. 406.
- Belting, Leather. L. A. Raniville. No. 125,912; July 8; v. 264; p. 349.
- Belting, Leather. Geo. Rahmann & Co. No. 126,064; July 22; v. 264; p. 698.
- Belting, Leather. J. S. Turner Manufacturing Co. Nos. 124,791-3; Mar. 11; v. 260; p. 389.
- Belting, Leather. J. S. Turner Manufacturing Co. No. 125,106; Apr. 8; v. 261; p. 408.
- Belting, Leather. Ulmer Leather Co. No. 124,167; Jan. 14; v. 258; p. 446.
- Belting, Leather. The Ulmer Leather Co. No. 124,604; Feb. 25; v. 259; p. 774.
- Belting, Leather. The Ulmer Leather Co. No. 125,684; June 3; v. 263; p. 163.
- Belting, Leather. The Ulmer Leather Company. No. 125,712; June 3; v. 263; p. 164.
- Belting, Leather. Ulmer Leather Co. No. 126,494; Aug. 26; v. 265; p. 630.
- Belting, non-metallic tires, &c., Certain named. The Norwalk Tire and Rubber Company. No. 125,085; Apr. 8; v. 261; p. 407.
- Belting, Stitched canvas. W. S. Nott Company. No. 125,084; Apr. 8; v. 261; p. 407.
- Belting, Tanned leather. W. Etsweiler & Company. No. 126,535; Sept. 16; v. 266; p. 445.
- Belting, Textile. Agrippa Manufacturing Corporation. No. 124,067; Jan. 14; v. 258; p. 443.
- Beltings. Olmsted-Flint Company. No. 128,145; Dec. 23; v. 269; p. 699.
- Benzin. Kon, Ned, Maatschappij tot Exploitatie van Petroleum bronnen in Ned. Indie. No. 124,316; Feb. 4; v. 259; p. 178.
- Beverage and syrup for making same, Non-alcoholic maltless. Martini Mfg. Co. No. 127,242; Oct. 28; v. 267; p. 644.
- Beverage and syrup for making the same, Non-alcoholic. Schuster Company. No. 127,249; Oct. 28; v. 267; p. 644.
- Beverage cooling and dispensing outfits. Cereal-. Wiese-Rahn Mfg. Co. No. 124,357; Feb. 4; v. 259; p. 179.
- Beverage, Malt. Narragansett Brewing Co. No. 125,245; Apr. 22; v. 261; p. 796.
- Beverage, Malt. Pittsburgh Brewing Company. Nos. 127,660-3; Nov. 18; v. 268; pp. 559-60.
- Beverage, Maltless. Cream City Brewing Co. Nos. 127,219-20; Oct. 28; v. 267; p. 643.
- Beverage, Maltless cereal. Burkhardt Brewing Company. No. 125,779; June 17; v. 263; p. 477.
- Beverage, Maltless non-alcoholic. Keen Drink Mfg. Co. No. 125,059; Apr. 8; v. 261; p. 406.
- Beverage, Non-alcoholic. Becker Bros. No. 124,662; Mar. 11; v. 260; p. 385.
- Beverage, Non-alcoholic. S. Belanger. No. 126,639; Sept. 30; v. 266; p. 733.
- Beverage, Non-alcoholic. J. Bump. No. 127,583; Nov. 18; v. 268; p. 557.
- Beverage, Non-alcoholic. A. Ginzburg. No. 126,285; Aug. 19; v. 265; p. 452.
- Beverage, Non-alcoholic. D. N. Goldberg. No. 127,612; Nov. 18; v. 268; p. 558.
- Beverage, Non-alcoholic. Iroquois Brewing Company. No. 127,193; v. 267; p. 483.
- Beverage, Non-alcoholic. National Fruit Juice Company. No. 127,654; Nov. 18; v. 268; p. 559.
- Beverage, Non-alcoholic. Reed Food Company. No. 127,669; Nov. 18; v. 268; p. 560.
- Beverage, Non-alcoholic cereal. Central Consumers Co. No. 124,229; Jan. 28; v. 258; p. 809.
- Beverage, Non-alcoholic cereal. Hagemester Brewing Company. No. 124,846; Mar. 18; v. 260; p. 556.
- Beverage, Non-alcoholic effervescent. J. Meurer. No. 124,325; Feb. 4; v. 259; p. 178.
- Beverage, Non-alcoholic maltless. M. Eisenberg. No. 125,869; June 24; v. 263; p. 631.
- Beverage, Non-alcoholic maltless. Harriman Spring Company. No. 125,221; Apr. 22; v. 261; p. 796.
- Beverage, Non-alcoholic maltless. Tallyday Medicine Co. No. 126,222; July 29; v. 264; p. 862.
- Beverage, Non-alcoholic non-cereal maltless. R. Frank. No. 127,609; Nov. 18; v. 268; p. 558.
- Beverage, Non-alcoholic raspberry. T. Fairbanks & Co. No. 127,181; Oct. 21; v. 267; p. 483.
- Beverage, Non-intoxicating. Joseph Krieg-Fink Co. No. 126,440; Aug. 26; v. 265; p. 629.
- Beverage, Non-intoxicating. A. Schreiber Brewing Co. No. 127,497; Nov. 11; v. 268; p. 375.
- Beverage, Non-intoxicating. Temperance Beverage Co. No. 127,888; Dec. 9; v. 269; p. 389.
- Beverage, Non-intoxicating cereal. American Products Company. No. 125,776; June 17; v. 263; p. 477.
- Beverage, Non-intoxicating cereal. Atlas Beverage Company. No. 124,499; Feb. 25; v. 259; p. 771.
- Beverage, Non-intoxicating cereal. Welz & Zerweck. No. 124,354; Feb. 4; v. 259; p. 179.
- Beverage, Non-intoxicating cereal malt. The Robert Smith Ale Brewing Co. No. 127,673; Nov. 18; v. 268; p. 560.
- Beverage, Non-intoxicating fruit. Montelaise Mercantile Co. No. 126,320; Aug. 16; v. 265; p. 453.
- Beverage, Non-intoxicating malt. The Akron Brewing Company. No. 124,213; Jan. 28; v. 258; p. 809.
- Beverage, Non-intoxicating malt. Henze-Tollen Brewing Company. No. 126,694; Sept. 30; v. 266; p. 735.
- Beverage, Non-intoxicating malt. D. H. Montgomery. No. 125,280; Apr. 29; v. 261; p. 953.
- Beverage, Non-intoxicating non-alcoholic. Empire Bottling Works. No. 127,606; Nov. 18; v. 268; p. 558.
- Beverage sold as a soft drink. C. L. Centlivre Brewing Co. No. 125,780; June 17; v. 263; p. 477.
- Beverage sold as a soft drink. P. Honorof. No. 126,167; July 29; v. 264; p. 860.
- Beverage sold as a soft drink. Keen-Kola Mfg. Co. No. 124,459; Feb. 18; v. 259; p. 572.
- Beverages and syrups for making same, Non-alcoholic. Crown Bottling Co. No. 126,662; Sept. 30; v. 266; p. 734.
- Beverages and syrups for making same, Non-alcoholic. Orange Dew Co. No. 127,200; Oct. 21; v. 267; p. 484.
- Beverages and syrups for manufacture of same, Non-alcoholic. H. C. Breimeyer. No. 127,814; Dec. 9; v. 269; p. 387.
- Beverages, Certain non-alcoholic. Arbutus Beverage Company. No. 125,323; May 13; v. 262; p. 309.
- Beverages, Certain named non-alcoholic. Garrett and Company. No. 124,841; Mar. 18; v. 260; p. 556.
- Beverages, Certain named non-alcoholic. Henry H. Ottens Mfg. Co. No. 124,869; Mar. 18; v. 260; p. 556.
- Beverages, Certain named non-alcoholic. The James A. Harper Supply Company. No. 124,243; Jan. 28; v. 258; p. 810.
- Beverages, Certain named non-alcoholic. Southern Fruit Julep Co. No. 124,891; Mar. 18; v. 260; p. 557.
- Beverages, Certain named non-alcoholic. Ver-Ba Beverage Co. No. 124,901; Mar. 18; v. 260; p. 558.
- Beverages, extracts, and liquors, Certain named. Cream City Brewing Co. Nos. 126,141-2; July 29; v. 264; p. 859.
- Beverages, extracts, and liquors, Certain named malt. Peoples Brewing Company. No. 124,936; Mar. 25; v. 260; p. 729.



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- Beverages, Extracts, and Liquors, Malt. Henze-Tollen Brewing Company; No. 126,598; Sept. 23; v. 266; p. 593.
- Beverages made from the juice of grapes or other fruits. Garrett and Company. Nos. 125,429-30; May 20; v. 262; p. 474.
- Beverages, Malt. Alaska Beverage Company. No. 127,209; Oct. 28; v. 267; p. 643.
- Beverages, Maltless non-alcoholic. E. Post. No. 126,337; Aug. 19; v. 265; p. 454.
- Beverages, Non-alcoholic. F. H. Aikman. No. 126,915; Oct. 14; v. 267; p. 335.
- Beverages, Non-alcoholic. The Bar-Ben Laboratory Co. No. 126,918; Oct. 14; v. 267; p. 335.
- Beverages, Non-alcoholic. F. Clarke. No. 127,178; Oct. 21; v. 267; p. 483.
- Beverages, Non-alcoholic. Druggists Sundries Company. No. 125,130; Apr. 15; v. 261; p. 625.
- Beverages, Non-alcoholic. T. G. Fisher. No. 127,182; Oct. 21; v. 267; p. 483.
- Beverages, Non-alcoholic. Guess Company. No. 126,691; Sept. 30; v. 266; p. 735.
- Beverages, Non-alcoholic. W. C. Henderson. No. 127,188; Oct. 21; v. 267; p. 483.
- Beverages, Non-alcoholic. Liquid Carbonic Company. No. 127,851; Dec. 9; v. 269; p. 388.
- Beverages, Non-alcoholic. Michigan Parfay Co. No. 127,197; Oct. 21; v. 267; p. 484.
- Beverages, Non-alcoholic. S. Steen. No. 126,489; Aug. 26; v. 265; p. 630.
- Beverages, Non-alcoholic. F. C. Voorhies. No. 127,893; Dec. 9; v. 269; p. 389.
- Beverages, Non-alcoholic maltless. Public Bottling Works. No. 126,196; July 29; v. 264; p. 861.
- Beverages, Non-intoxicating. Augusta Ice & Beverage Company. No. 127,578; Nov. 18; v. 268; p. 557.
- Beverages sold as soft drinks, Acidulating solution for. Lehman-Rosenfeld Co. No. 124,111; Jan. 14; v. 258; p. 444.
- Bicycle. Rogers-Peet Company. No. 127,493; Nov. 11; v. 268; p. 375.
- Bicycle and motorcycle spokes, nipples, hubs, pedals, &c. Herbert F. L. Funke Co., Inc. No. 127,399; Nov. 11; v. 268; p. 372.
- Bicycles. Chicago Cycle Supply Company. No. 124,676; Mar. 11; v. 260; p. 386.
- Bicycles. The Davis Sewing Machine Company. No. 127,272; Nov. 4; v. 268; p. 187.
- Bicycles. Harley-Davidson Motor Co. No. 124,714; Mar. 11; v. 260; p. 387.
- Bicycles. Mead Cycle Company. Nos. 127,289-90; Nov. 4; v. 268; p. 188.
- Bicycles. Simmons Hardware Company. No. 127,202; Oct. 21; v. 267; p. 484.
- Bicycles. Simmons Hardware Company. No. 127,685; Nov. 18; v. 268; p. 560.
- Bicycles and tricycles. Auto-Ped Company of America. No. 125,385; May 20; v. 262; p. 473.
- Bicycles, motorcycles, tricycles, side cars. James Cycle Co. No. 127,423; Nov. 11; v. 268; p. 372.
- Billiard and pocket-billiard balls. The Brunswick-Balke-Collender Company. No. 124,222; Jan. 28; v. 258; p. 809.
- Binders, Loose-leaf. H. C. Miller. No. 124,399; Feb. 11; v. 259; p. 380.
- Birch and root beers, lemon-soda, &c. Country Club Soda Company. No. 126,831; Oct. 7; v. 267; p. 177.
- Bird-lime. A. O. Mysowski. No. 125,830; June 17; v. 263; p. 478.
- Biscuit. Consumers Biscuit Company. No. 127,179; Oct. 21; v. 267; p. 483.
- Biscuit. National Biscuit Company. No. 125,938; July 15; v. 264; p. 531.
- Biscuit. National Biscuit Company. No. 127,291; Nov. 4; v. 268; p. 188.
- Biscuit. National Biscuit Company. No. 127,653; Nov. 18; v. 268; p. 559.
- Biscuits, cakes, crackers, cookies, wafers. The Merchant's Biscuit Co. No. 124,976; Apr. 1; v. 261; p. 198.
- Bits for lathes for cutting metal. Colonial Steel Company. No. 124,681; Mar. 11; v. 260; p. 386.
- Bituminous compositions. Briggs Bituminous Composition Co. No. 124,814; Mar. 18; v. 260; p. 555.
- Blackening, Stove. The Hayden-Griffin Co. No. 127,053; Oct. 21; v. 267; p. 479.
- Blankets, Bed. The Beckman Company. No. 127,900; Dec. 16; v. 269; p. 541.
- Blankets, Cotton and wool. Rogers, Hennessey & Jenkins. No. 124,151; Jan. 14; v. 258; p. 445.
- Blankets, lap-ropes, bedspreads, quilts, and comforts. Rice-Stix Dry Goods Company. No. 128,163; Dec. 23; v. 269; p. 700.
- Blood builder and purifier. S. M. Noyes. No. 124,645; Mar. 4; v. 260; p. 197.
- Blood-purifier and relief for rheumatism. McNeil Drug Co. No. 124,746; Mar. 11; v. 260; p. 388.
- Blood-purifier, liniment, salve. H. B. Myers. No. 127,453; Nov. 11; v. 268; p. 373.
- Blood-purifiers. Hoshaw & Hopkins. No. 125,143; Apr. 15; v. 261; p. 625.
- Bloomer and petticoat combined. Simon & Mendelsohn. No. 128,173; Dec. 23; v. 269; p. 700.
- Bloomers. Simon & Mendelsohn. No. 128,172; Dec. 23; v. 269; p. 700.
- Bloomers, drawers, underskirts, petticoats. D. L. Fine. No. 125,045; Apr. 8; v. 261; p. 406.
- Bloomers, Sanitary. M. E. Osherman. No. 126,951; Oct. 14; v. 267; p. 336.
- Blouses, Middy-. Z. & S. Middy Co. No. 127,171; Oct. 21; v. 267; p. 483.
- Blouses, shirt-waists, etc. E. W. Wolf. No. 125,945; July 15; v. 264; p. 431.
- Blowers and exhausters, Turbine-actuated, &c. Carling Turbine Blower Co. No. 127,349; Nov. 11; v. 268; p. 370.
- Blowers, drill and punch presses, shears for hand and foot power, Portable. Canedy-Otto Mfg. Co. No. 127,347; Nov. 11; v. 268; p. 370.
- Bluing, Laundry. James C. Kellogg. No. 125,228; Apr. 22; v. 261; p. 796.
- Blue, Laundry. H. Propper. No. 126,062; July 22; v. 264; p. 698.
- Blue, Soluble. A. B. Ansbacher. No. 125,951; July 22; v. 264; p. 695.
- Bluing, Laundry. J. S. McKenzie & Co. No. 126,034; July 22; v. 264; p. 697.
- Body-protector made of wind and water proof material. A. Nathan. No. 125,301; May 6; v. 262; p. 165.
- Boiler and pipe covering. H. W. Johns-Manville Co. No. 124,973; Apr. 1; v. 261; p. 197.
- Boiler-cleansing chemicals. T. C. Warley. No. 124,624; Feb. 25; v. 259; p. 775.
- Boiler compounds. H. H. Atkinson. No. 127,711; Dec. 2; v. 269; p. 185.
- Boiler compound. Tegufilm Chemical Mfg. Co. No. 124,422; Feb. 11; v. 259; p. 381.
- Boiler feed-water controllers, Steam-. G. W. Stetson. No. 125,529; May 20; v. 262; p. 477.
- Boiler, locomotive, marine-boiler, and steam tubes, &c. The British Mannesmann Tube Company. No. 125,023; Apr. 8; v. 261; p. 405.
- Boiler-tube extractors. J. F. Robertson. No. 127,124; Oct. 21; v. 267; p. 481.
- Bolt and rivet clippers. H. K. Porter. No. 126,195; July 29; v. 264; p. 861.
- Bolts and shields, and screw-anchors, Expansion. Diamond Expansion Bolt Co. No. 124,961; Apr. 1; v. 261; p. 197.
- Bolts and shields, Expansion. Diamond Expansion Bolt Co. No. 125,205; Apr. 22; v. 261; p. 795.
- Bolts and shields, Expansion. Diamond Expansion Bolt Co. No. 126,524; Sept. 16; v. 266; p. 445.
- Bolts and shields, screw-anchors, Expansion. Diamond Expansion Bolt Co. No. 125,206; Apr. 22; v. 261; p. 795.
- Bolts, &c., Expansion-. Parker Supply Company. No. 127,862; Dec. 9; v. 269; p. 388.
- Bolts, machine-screws, &c., Expansion-shields for machine-. Diamond Expansion Bolt Co. No. 124,297; Feb. 4; v. 259; p. 177.
- Bolts, nuts, rivets, metal washers. Russell, Burdsall & Ward Bolt & Nut Co. No. 126,202; July 29; v. 264; p. 861.
- Bonnets, hats, and dresses for children. M. D. Colquitt. No. 127,360; Nov. 11; v. 268; p. 370.
- Book-marker. A. Smith. No. 127,789; Dec. 2; v. 269; p. 187.
- Books and periodical publications. Engineering Magazine Company. No. 127,827; Dec. 9; v. 269; p. 387.
- Books, booklets, pamphlets, manuals. Aetna Life Insurance Company. No. 125,013; Apr. 8; v. 261; p. 405.
- Books, magazines, manuals, &c., printed monthly. Wireless Press, Inc. No. 126,112; July 22; v. 264; p. 700.
- Books, pamphlets, circulars, Printed. International Printing Pressmen and Assistants' Union of North America. No. 124,248; Jan. 28; v. 258; p. 810.
- Books, Printed. E. J. Clode. No. 127,817; Dec. 9; v. 269; p. 387.
- Books, Printed-. McLaughlin Bros. No. 125,237; Apr. 22; v. 261; p. 796.
- Booklets or lessons issued periodically. A. A. Bratton. No. 125,124; Apr. 15; v. 261; p. 625.
- Boot and shoe soles. Armstrong Cork Company. No. 125,954; July 22; v. 264; p. 695.
- Boot and shoe taps. Emery Heel Sales Company. No. 125,802; June 17; v. 263; p. 477.
- Boots and shoes. Huntington Shoe and Leather Co. No. 125,293; May 6; v. 262; p. 165.
- Boots and shoes. W. H. McElwain Company. No. 124,201; Jan. 21; v. 258; p. 641.
- Boots and shoes. The Mutual Shoemakers. No. 125,281; Apr. 29; v. 261; p. 953.
- Boots and shoes. Thompson Shoe Company. No. 125,540; May 20; v. 262; p. 478.
- Boots and shoes. Von Der Heyde & John. No. 124,273; Jan. 28; v. 258; p. 811.
- Boots and shoes. Cork for making soles of. Armstrong Cork Company. No. 127,314; Nov. 11; v. 268; p. 369.
- Boots and shoes for men and women. Leather. Willis & Atwood. No. 125,283; May 6; v. 262; p. 165.
- Boots and shoes for men, women, and children. Leather. Parker, Holmes & Co. No. 127,472; Nov. 11; v. 268; p. 374.

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- Boots and shoes, Ladies'. Craddock-Terry Company. No. 126,832; Oct. 7; v. 267; p. 177.
- Boots and shoes, Leather. The Charles E. Lynch Shoe Mfg. Co. No. 125,298; May 6; v. 262; p. 165.
- Boots and shoes, Leather. King Bros. Shoe Co. No. 127,285; Nov. 4; v. 268; p. 187.
- Boots and shoes, Leather. Leonard & Barrows. No. 125,460; May 20; v. 262; p. 475.
- Boots and shoes, Leather. F. Mayer Boot & Shoe Co. No. 127,288; Nov. 4; v. 268; p. 188.
- Boots and shoes, Leather. J. A. Paterson. No. 125,304; May 6; v. 262; p. 165.
- Boots and shoes, Leather. The Stetson Shoe Company. No. 126,490; Aug. 26; v. 265; p. 630.
- Boots and shoes, Leather. J. Wile Sons & Co. No. 127,552; Nov. 11; v. 268; p. 377.
- Boots and shoes, Men's and boys' leather. A. A. Williams. No. 127,301; Nov. 4; v. 268; p. 188.
- Boots and shoes, Men's and women's leather. E. E. Taylor Company. No. 126,096; July 22; v. 264; p. 699.
- Boots and shoes of kid, leather, and canvas. United Workingmen's Boot & Shoe Mfg. Co. No. 127,254; Oct. 28; v. 267; p. 644.
- Boots, shoes, and sandals. Juvenile Shoe Corporation of America. No. 124,251; Jan. 28; v. 258; p. 810.
- Boots, shoes, and sandals of kid, leather, and canvas. The Juvenile Shoe Corporation of America. Nos. 127,426-7; Nov. 11; v. 268; p. 372.
- Boots, shoes, and slippers. Hanan & Son. No. 124,713; Mar. 11; v. 260; p. 387.
- Boots, shoes, and slippers, Leather. &c. W. Hurrell. No. 127,420; Nov. 11; v. 268; p. 372.
- Boots, shoes, sandals. Juvenile Shoe Corporation of America. No. 127,067; Oct. 21; v. 267; p. 479.
- Boots, shoes, soles, and heels, Finished vulcanized. The Phoenix Rubber Co. No. 128,887; Oct. 7; v. 267; p. 179.
- Booths, Demonstration-. A. L. Van Veen. No. 124,170; Jan. 14; v. 258; p. 446.
- Bottle capping and filling machines. Crown Cork and Seal Company of Baltimore City. No. 127,916; Dec. 16; v. 269; p. 541.
- Bottle-capping machines. The Crown Cork and Seal Company of Baltimore City. Nos. 127,818-19; Dec. 9; v. 269; p. 387.
- Bottle, &c., closures. The Crown Cork and Seal Company of Baltimore City. No. 127,596; Nov. 18; v. 268; p. 557.
- Bottle-stoppers. A. R. Roesch. No. 126,606; Sept. 23; v. 266; p. 593.
- Bottle stoppers and caps, jar-closures. Koscherak Siphon-Bottle Works. No. 126,306; Aug. 19; v. 265; p. 453.
- Bouillon cubes and vegetable and beef extracts. Pure Food Factory "Hansa." No. 127,667; Nov. 18; v. 268; p. 560.
- Bouillon-cubes, peanut-butter, gelatin. Grand Union Tea Co. No. 127,049; Oct. 21; v. 267; p. 479.
- Bow-sockets, castings, &c. Brewer-Titchener Corporation. No. 127,337; Nov. 11; v. 268; p. 370.
- Boxes, Collapsible. J. F. Friedel Paper Box Company. No. 124,092; Jan. 14; v. 258; p. 443.
- Bracelets, scarf-pins, charms, ear-rings, emblems, &c. Lenox Jewelry Co. No. 128,103; Dec. 23; v. 269; p. 693.
- Braids. Barthels Manufacturing Company. No. 128,004; Dec. 23; v. 269; p. 695.
- Brake-beams for vehicles. Liberty Steel Products Co. No. 127,965; Dec. 16; v. 269; p. 543.
- Brake-lining. "Scandinavia" Belting Ltd. No. 127,247; Oct. 28; v. 267; p. 644.
- Brass and steel products, Certain named welded. Copper Clad Steel Co. No. 125,411; May 20; v. 262; p. 474.
- Brassieres and corsets. Charles R. De Bevoise Company. No. 127,021; Oct. 21; v. 267; p. 478.
- Bread. H. Baldinger & Company. No. 127,579; Nov. 18; v. 268; p. 557.
- Bread. Barker Baking Company. No. 127,713; Dec. 2; v. 269; p. 185.
- Bread. F. H. Blewett. No. 127,332; Nov. 11; v. 268; p. 369.
- Bread. Cable Draper Baking Co. No. 127,344; Nov. 11; v. 268; p. 370.
- Bread. Federal System of Baking Company. No. 125,335; May 13; v. 262; p. 309.
- Bread. Greissell Gitzen Company. No. 126,007; July 22; v. 264; p. 697.
- Bread. C. F. Hathaway & Sons. No. 125,874; June 24; v. 263; p. 631.
- Bread. Henry Blewett & Son. Nos. 127,994-5; Oct. 21; v. 267; p. 477.
- Bread. Henry Blewett & Son. No. 127,582; Nov. 18; v. 268; p. 557.
- Bread. G. Jackson. No. 126,295; Aug. 19; v. 265; p. 453.
- Bread. R. L. Nafziger. No. 125,751; June 10; v. 263; p. 328.
- Bread. Perfection Biscuit Co. No. 127,476; Nov. 11; v. 268; p. 374.
- Bread. C. R. Roberts. No. 125,582; May 27; v. 262; p. 643.
- Bread. Ward Baking Company. No. 125,371; May 13; v. 262; p. 310.
- Bread. Washburn-Crosby Co. No. 127,797; Dec. 2; v. 269; p. 187.
- Bread and cake. E. Graf. No. 127,279; Nov. 4; v. 268; p. 187.
- Bread, biscuits, cakes. W. B. Ward. No. 126,368; Aug. 19; v. 265; p. 455.
- Bread, cakes, sandwiches, pies. C. S. McCord. No. 126,450; Aug. 26; v. 265; p. 629.
- Bread, rolls, and cakes. P. M. Dorsch. No. 125,726; June 10; v. 263; p. 327.
- Brick and tile. Clearfield Clay Working Company. No. 127,914; Dec. 16; v. 269; p. 541.
- Brick, Fire-. Ashland Fire Brick Company. Nos. 125,121-2; Apr. 15; v. 261; p. 625.
- Bricks, Fire-. Fulton Fire Brick Company. No. 126,683; Sept. 30; v. 266; p. 735.
- Briquets, Fuel-. Fuel Briquet Company. No. 126,279; Aug. 19; v. 265; p. 452.
- Bristles. Chesnut Cooper & Co. No. 124,820; Mar. 18; v. 260; p. 555.
- Bristles and hair. Andersen, Meyer & Co. No. 124,070; Jan. 14; v. 258; p. 443.
- Bronze and steel products, Certain named welded. Copper Clad Steel Co. No. 125,410; May 20; v. 262; p. 474.
- Bronze metal. The Randolph-Clowes Company. No. 124,337; Feb. 4; v. 259; p. 179.
- Broom-clamp. M. G. Scoville Sons Company. No. 125,177; Apr. 15; v. 261; p. 626.
- Brooms. American Broom Manufacturing Co. No. 124,216; Jan. 28; v. 258; p. 809.
- Brooms. The Board of Control of the Colorado Industrial Workshop for the Blind. No. 125,191; Apr. 22; v. 261; p. 795.
- Brooms. Kansas City Broom Company. No. 127,283; Nov. 4; v. 268; p. 187.
- Brooms. Lee Broom & Duster Company. No. 128,102; Dec. 23; v. 269; p. 698.
- Brooms and brushes, and handles therefor. The Celluloid Company. No. 126,928; Oct. 14; v. 267; p. 335.
- Brush holder or case, Shaving-. A. L. Holtzman. No. 126,289; Aug. 19; v. 265; p. 452.
- Brushes. The Celluloid Company. No. 125,560; May 27; v. 262; p. 643.
- Brushes. E. D. Cutino. No. 125,563; May 27; v. 262; p. 643.
- Brushes. Geo. R. Gibson Co. No. 127,404; Nov. 11; v. 268; p. 372.
- Brushes. George Borgfeldt & Co. No. 125,611; June 3; v. 263; p. 161.
- Brushes. Wm. Enders Manufacturing Company. No. 127,037; Oct. 21; v. 267; p. 478.
- Brushes. G. Winckler. No. 127,165; Oct. 21; v. 267; p. 483.
- Brushes and brooms. The Cleveland Osborn Manufacturing Company. No. 127,357; Nov. 11; v. 268; p. 370.
- Brushes, Artists'. United Brush Manufactories. No. 127,529; Nov. 11; v. 268; p. 376.
- Brushes, Certain named toilet. Geo. R. Gibson Company. No. 124,239; Jan. 28; v. 258; p. 810.
- Brushes, Factory, foundry, platers'. The Cleveland Osborn Manufacturing Company. No. 125,198; Apr. 22; v. 261; p. 795.
- Brushes, Hair and tooth. E. D. Cutino. No. 124,517; Feb. 25; v. 259; p. 771.
- Brushes, Paint, &c. The Cleveland Osborn Manufacturing Co. No. 127,356; Nov. 11; v. 268; p. 370.
- Brushes, Paint and varnish. United Brush Manufactories. No. 127,525; Nov. 11; v. 268; p. 376.
- Brushes, Shaving-. De Luxe Brush Company. No. 125,798; June 17; v. 263; p. 477.
- Brushes, Shaving-. James Lowe Erskine Co., The. No. 124,857; Mar. 18; v. 260; p. 556.
- Brushes, Shaving-. Warner-Patterson Co. No. 126,369; Aug. 19; v. 265; p. 455.
- Brushes, Timer for ignition systems. Earl L. Miller. No. 126,316; Aug. 19; v. 265; p. 453.
- Brushes, Toilet-. George R. Gibson Company. No. 124,240; Jan. 28; v. 258; p. 810.
- Brushes, Toilet-. George R. Gibson Company. No. 128,071; Dec. 23; v. 269; p. 697.
- Brushes, Tooth-. Williams Brush Company. No. 125,857; June 17; v. 263; p. 479.
- Brushes, Tooth-. Williams Brush Co. No. 127,302; Nov. 4; v. 268; p. 188.
- Brushes, Tooth, nail, hair. Irvin Brush Company. No. 127,281; Nov. 4; v. 268; p. 187.
- Brushes used as sash-tools. United Brush Manufactories. No. 127,527; Nov. 11; v. 268; p. 376.
- Brushes, Varnish-. United Brush Manufactories. No. 127,524; Nov. 11; v. 268; p. 376.
- Brushes, Varnish-. United Brush Manufactories. No. 127,528; Nov. 11; v. 268; p. 376.
- Brushes, Varnish, paint, &c. United Brush Manufactories. No. 127,526; Nov. 11; v. 268; p. 376.
- Buffing compounds. George Zucker Company. No. 125,546; May 20; v. 262; p. 478.
- Building and structural material. The Agasote Mill-board Co. No. 126,506; Sept. 16; v. 266; p. 445.
- Buildings, Ready-cut and portable. Berkshire Lumber Company. No. 128,005; Dec. 23; v. 269; p. 695.



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- Bulletin, Monthly serial. Hanson-Roach Fowler Co. No. 124,196; Jan. 21; v. 258; p. 641.
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- Canned vegetables, peas and pork, &c. Adam Brothers & Sellers Company. No. 124,496; Feb. 25; v. 259; p. 771.
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- Canteens. Hocotecn Mfg. Co. No. 125,142; Apr. 15; v. 261; p. 625.
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- Capsules, Headache and nerve-pain. T. F. Monaghan. No. 125,478; May 20; v. 262; p. 476.
- Car chassis into commercial-truck chassis, Units for converting motor. All Car Unit Company. No. 124,859; Feb. 11; v. 259; p. 379.
- Car-replacers, &c. Aldon Company. No. 128,214; Dec. 23; v. 269; p. 701.
- Cars and automobiles, Motor-. H. J. Koehler Motors Corporation. No. 124,107; Jan. 14; v. 258; p. 444.
- Cars, Motor-. Lexington Motor Company. No. 124,115; Jan. 14; v. 258; p. 444.
- Caramels. Dilling & Co. No. 127,022; Oct. 21; v. 267; p. 478.
- Carbon-preventive, Chemical. Oxogen Products Company. No. 127,776; Dec. 2; v. 269; p. 187.
- Carbon-remover and gas-saver. C. J. Ulrich. No. 125,767; June 10; v. 263; p. 328.
- Carbon-remover, antifreezing solution, &c., Chemical. Liberty Chemical Works. No. 127,850; Dec. 9; v. 269; p. 388.
- Carbon-removers. Sweeto Motor Products Company. No. 124,600; Feb. 25; v. 259; p. 774.
- Carbon-removers, Chemical. S. L. Hines. No. 126,433; Aug. 26; v. 265; p. 628.
- Carbon-removing, fire-extinguishing, &c., compounds and soldering-paste. The Northwestern Chemical Co. No. 127,858; Dec. 9; v. 269; p. 388.
- Carbureters for use with internal-combustion engines and nebulizing attachments. The Ogden Corporation. No. 126,734; Sept. 30; v. 266; p. 736.
- Card-rack for solitaire lay-outs. A. K. Harned. No. 128,078; Dec. 23; v. 269; p. 697.
- Cards, Pictorial correspondence-. J. M. Williamson. No. 126,503; Aug. 20; v. 265; p. 631.
- Cards, Playing-. J. C. Gaffney. Nos. 126,280-2; Aug. 19; v. 265; p. 452.
- Cardboard. Thames Paper Company. No. 125,539; May 20; v. 262; p. 478.
- Carpenters' and machinists' tools, &c. Allied Machinery Company of America. No. 126,978; Oct. 21; v. 267; p. 477.
- Carpenters' tools, Boys' sets of. Platts Box Company. No. 127,243; Oct. 28; v. 267; p. 644.
- Carriers, Overhead. Franklin Barn Equipment Co. No. 127,232; Oct. 28; v. 267; p. 643.
- Cart for boys, Pedaling-. J. J. Bukolt. No. 127,000; Oct. 21; v. 267; p. 477.
- Carts, wagons, and parts thereof and wheelbarrows, Horse-drawn. The Hartman Company. No. 127,410; Nov. 11; v. 268; p. 372.
- Cartons. C. A. Soeffgen. No. 125,523; May 20; v. 262; p. 477.
- Cartons, Pasteboard. H. W. Ramsay. No. 128,156; Dec. 23; v. 269; p. 699.
- Cartoon series. C. B. Middleton. No. 124,084; Jan. 14; v. 258; p. 443.
- Cartoons, Newspaper-. R. L. Goldberg. No. 124,532; Feb. 25; v. 259; p. 772.
- Castings and babbitt alloys, Bronze. The Muzzy-Lyon Co. No. 125,244; Apr. 22; v. 261; p. 796.
- Castings and forgings, Malleable-iron. Northern Malleable Iron Company. No. 127,101; Oct. 21; v. 267; p. 480.
- Castings, Brass. Doehler Die-Casting Company. No. 127,023; Oct. 21; v. 267; p. 478.
- Castings, Steel. Pelton Steel Company. No. 127,109; Oct. 21; v. 267; p. 481.
- Catalogues and monthly magazines. Michigan State Auto School. No. 125,664; June 3; v. 263; p. 162.
- Cathartic water, Concentrated. Nepto Chemical Co. No. 126,731; Sept. 30; v. 266; p. 736.
- Cattle-dip. General Chemical Company. No. 126,684; Sept. 30; v. 266; p. 735.
- Caulophyllum, Preparation of. Lloyd Brothers. No. 124,643; Mar. 4; v. 260; p. 197.
- Cement and concrete for walls and floors, Hardening material used in the mix for. F. Djourup. No. 124,519; Feb. 25; v. 259; p. 771.
- Cement and concrete-hardener, Roofing-. Bowen Inc. No. 124,503; Feb. 25; v. 259; p. 771.
- Cement and concrete, Surface-hardener for. B. W. Jacobs. No. 124,545; Feb. 25; v. 259; p. 772.
- Cement, Fire-brick. Refractories Company. No. 124,989; Apr. 1; v. 261; p. 198.
- Cement for forming furnace-linings, Fire-resisting. Jointless Fire Brick Company. No. 127,425; Nov. 11; v. 268; p. 372.
- Cement for roofing, &c., Elastic. Metropolitan Material Company. No. 126,724; Sept. 30; v. 266; p. 736.
- Cement, Plastic roofing-. D. Bernstein. No. 128,006; Dec. 23; v. 269; p. 695.
- Cement, Portland. Edison Portland Cement Company. Nos. 126,150-1; July 29; v. 264; p. 860.
- Cement raw materials, coal, &c., Material-reducing machines for crushing. Williams Patent Crusher & Pulverizer Co. No. 127,554; Nov. 11; v. 268; p. 377.
- Cements, Refractory. Pitts and Kitts Mfg. and Supply Co. No. 124,145; Jan. 14; v. 258; p. 445.
- Cereal, Breakfast. American Hominy Company. No. 126,620; Sept. 30; v. 266; p. 733.
- Cereal food drink. The John F. Bauer Co. No. 126,244; Aug. 19; v. 265; p. 451.
- Certain named foods. Haas Baruch & Co. No. 125,703; June 3; v. 263; p. 164.
- Certain named receptacles made of pyroxylin. J. W. Pickering. No. 125,672; June 3; v. 263; p. 163.
- Chains, Antiskid-. Cleveland Chain & Mfg. Co. No. 127,214; Oct. 28; v. 267; p. 643.
- Chains, Base-metal key and identification-tag. E. B. Lederer. No. 127,431; Nov. 11; v. 268; p. 373.
- Chains for automobiles, Skid-. Master Manufacturing Company. No. 126,946; Oct. 14; v. 267; p. 336.
- Chambrays and tickings. David Schwartz Co., Inc. Nos. 127,679-81; Nov. 18; v. 268; p. 560.
- Charcoal. G. N. Meinert. No. 128,125; Dec. 23; v. 269; p. 698.
- Charcoal. Forest Products Chemical Company. No. 126,847; Oct. 7; v. 267; p. 178.
- Check-books, Coupon. Standard Benefit Check Co. No. 124,156; Jan. 14; v. 258; p. 445.
- Check holders and punches, Combination. C. A. Erickson. No. 127,386; Nov. 11; v. 268; p. 371.
- Check-writing machine. Hall-Welter Company. No. 125,436; May 20; v. 262; p. 474.
- Checks, Metal savings-. The Savings Check Company. No. 124,993; Apr. 1; v. 261; p. 198.

- Cheese. Edson Bros. No. 125,334; May 13; v. 262; p. 309.
- Cheese. Polly Bros. No. 127,665; Nov. 18; v. 268; p. 560.
- Cheese. Standard Cheese Co. No. 127,298; Nov. 4; v. 268; p. 188.
- Chemical carbon-removers. Brown, Clark & Company. No. 127,339; Nov. 11; v. 268; p. 370.
- Chemical compound. W. L. Copell. No. 126,648; Sept. 30; v. 266; p. 734.
- Chemical gasoline-intensifier and carbon-remover. Crown Corporation. No. 127,729; Dec. 2; v. 269; p. 185.
- Chemicals, &c., Certain named. American Cyanamid Company. No. 124,650; Mar. 11; v. 260; p. 385.
- Chemicals, &c., Certain named. David McMeekan Mfg. Co. No. 125,073; Apr. 8; v. 261; p. 407.
- Chemicals for use in tanning. Gutmann & Company. No. 126,010; July 22; v. 264; p. 697.
- Chemicals, medicines, &c. J. Early Wood, Inc. No. 126,505; Aug. 26; v. 265; p. 631.
- Chemicals, medicines, &c. Reso Products Co. No. 126,957; Oct. 14; v. 267; p. 336.
- Chemicals, medicines, &c., Certain named. The United States Drug & Chemical Co. No. 124,489; Feb. 18; v. 259; p. 572.
- Chemicals, medicines, and pharmaceutical preparations, Certain named. Brewer & Company. No. 124,289; Feb. 4; v. 259; p. 177.
- Chemicals, medicines, and pharmaceutical preparations, Certain named. Hunyadi Split Corporation. No. 124,309; Feb. 4; v. 259; p. 178.
- Chemicals or mixtures thereof, Certain named. The Permutit Company. No. 125,305; May 6; v. 262; p. 165.
- Chicks and eggs. E. W. Kellogg. No. 126,301; Aug. 19; v. 265; p. 453.
- Children's clothing. Sackman Brothers Company. No. 124,764; Mar. 11; v. 260; p. 388.
- Chilli-con-carne and tamales. R. E. Cleary. No. 125,197; Apr. 22; v. 261; p. 795.
- China ware. Onondaga Pottery Company. No. 124,469; Feb. 18; v. 259; p. 572.
- Chocolate. D. Ghirardelli Co. No. 127,045; Oct. 21; v. 267; p. 479.
- Chocolate and cocoa. The Janet Chocolate Company. No. 126,701; Sept. 30; v. 266; p. 735.
- Chocolate, chocolate candy, &c. Pennsylvania Chocolate Co. No. 124,577; Feb. 25; v. 259; p. 773.
- Chocolate coatings as applied to confectionery. Borden's Condensed Milk Company. No. 125,718; June 10; v. 263; p. 327.
- Chocolate, cocoa, broma, candies. Beacon Chocolate Company. Nos. 124,364-6; Feb. 11; v. 259; p. 379.
- Chocolate-covered molasses bars. Metro' Chocolate Co. No. 127,767; Dec. 2; v. 269; p. 187.
- Chocolate products and chocolate liquor. Massachusetts Chocolate Company. Nos. 127,433-4. Nov. 11; v. p. 373.
- Chocolate, Sweet. Massachusetts Chocolate Company. No. 124,750; Mar. 11; v. 260; p. 388.
- Chocolates. C. A. Crane. No. 127,728; Dec. 2; v. 269; p. 185.
- Chocolates. Mason, Au & Magenheimer Confectionery Manufacturing Co. No. 124,257; Jan. 28; v. 258; p. 810.
- Chocolates, chocolate and cocoa combined, cocoa. Guitard Company. No. 126,008; July 22; v. 264; p. 697.
- Cholera preventive. Hog. Futral & Hurster. No. 127,611; Nov. 18; v. 268; p. 558.
- Chucks for drills and lathes. Westcott Chuck Company. No. 127,161; Oct. 21; v. 267; p. 482.
- Chucks for drills and lathes. Westcott Chuck Company. No. 127,255; Oct. 28; v. 267; p. 644.
- Chucks, Lathe. Westcott Chuck Company. No. 126,587; Sept. 16; v. 266; p. 447.
- Chucks, Lathe and drill. Westcott Chuck Company. No. 126,500; Aug. 26; v. 265; p. 631.
- Churns and butter-mergers. Smith's Inventions. No. 124,774; Mar. 11; v. 260; p. 389.
- Cider and fruit juices and extracts in general for beverage purposes, Apple. Western Beverage Co. No. 124,175; Jan. 14; v. 258; p. 446.
- Cigar and cigarette lighters. Military Sales Corporation. No. 124,126; Jan. 14; v. 258; p. 444.
- Cigars. Bobrow Bros. No. 124,220; Jan. 28; v. 258; p. 809.
- Cigars. Bobrow Bros. No. 124,666; Mar. 11; v. 260; p. 385.
- Cigars. Charles P. Stanley Cigar Company. No. 124,264; Jan. 28; v. 258; p. 810.
- Cigars. N. Ehrlich. No. 124,235; Jan. 28; v. 258; p. 809.
- Cigars. Garcia Miranda Cigar Co. No. 127,943; Dec. 16; v. 269; p. 542.
- Cigars. General Cigar Co. No. 125,431; May 20; v. 262; p. 474.
- Cigars. General Cigar Co. No. 125,571; May 27; v. 262; p. 643.
- Cigars. C. Landau. No. 124,109; Jan. 14; v. 258; p. 444.
- Cigars. V. Levor. No. 127,760; Dec. 2; v. 269; p. 186.
- Cigars. Morris D. Neumann & Company. No. 125,485; May 20; v. 262; p. 476.
- Cigars. H. T. Offerdinger. No. 127,774; Dec. 2; v. 269; p. 187.
- Cigars. E. Popper & Co. No. 125,580; May 27; v. 262; p. 643.
- Cigars. Stoddard, Gilbert & Co. Nos. 126,359-61; Aug. 19; v. 265; p. 305.
- Cigars. Stoddard, Gilbert & Co. No. 127,145; Oct. 21; v. 267; p. 482.
- Cigars. Sheridan & Dessaur. No. 128,168; Dec. 23; v. 269; p. 700.
- Cigars. Simmons & McCrary. No. 128,171; Dec. 23; v. 269; p. 700.
- Cigars. United Cigar Manufacturing Company. No. 125,718; June 3; v. 263; p. 164.
- Cigars and cigarettes. Mrs. Olga Kohlberg. No. 128,091; Dec. 23; v. 269; p. 697.
- Cigars and cigarettes. William Penn Hotel Company. No. 124,180; Jan. 14; v. 258; p. 446.
- Cigars, cheroots, little cigars. E. M. Schwarz & Co. No. 126,345; Aug. 19; v. 265; p. 454.
- Cigars, cheroots, stogies, &c. W. Arnheim. No. 126,126; July 29; v. 264; p. 859.
- Cigars, cigarettes, cheroots, manufactured tobacco. Ledger Sons & Co. No. 125,661; June 3; v. 263; p. 162.
- Cigars, cigarettes, smoking-tobacco. M. Hyman. No. 127,620; Nov. 18; v. 268; p. 558.
- Cigars, cigarettes, tobacco, snuff. United Cigar Stores Company of America. No. 126,364; Aug. 19; v. 265; p. 455.
- Cigars, little cigars, cheroots, cigarettes. General Cigar Co. No. 126,161; July 29; v. 264; p. 860.
- Cigars, tobacco, cigarettes. J. D. Piggott. No. 124,875; Mar. 18; v. 260; p. 557.
- Cigarette-papers. A. B. Newman Co. No. 126,324; Aug. 19; v. 265; p. 453.
- Cigarettes. The American Tobacco Co. Nos. 126,238-9; Aug. 19; v. 265; p. 451.
- Cigarettes. Franco American Cigarette & Tobacco Company. No. 125,427; May 20; v. 262; p. 474.
- Cigarettes. Franco American Cigarette & Tobacco Company. No. 128,210; Dec. 23; v. 269; p. 701.
- Cigarettes. Hills Brothers Company. No. 126,288; Aug. 19; v. 265; p. 452.
- Cigarettes. P. E. Hurst. No. 126,291; Aug. 19; v. 265; p. 452.
- Cigarettes. R. J. Lea. Nos. 128,100-1; Dec. 23; v. 269; p. 698.
- Cigarettes. Ledger Sons & Co. No. 126,177; July 29; v. 264; p. 860.
- Cigarettes. E. P. Mesthene & Co. No. 125,158; Apr. 15; v. 261; p. 626.
- Cigarettes. Reed Tobacco Company. No. 128,157; Dec. 23; v. 269; p. 699.
- Cigarettes. Standard Tobacco Company. No. 126,486; Aug. 26; v. 265; p. 630.
- Cigarettes. The United Kingdom Tobacco Company. No. 124,899; Mar. 18; v. 260; p. 557.
- Cigarettes. The United Kingdom Tobacco Company. No. 125,004; Apr. 1; v. 261; p. 198.
- Cigarettes. The United Kingdom Tobacco Company. No. 126,798; Sept. 30; v. 266; p. 738.
- Cigarettes. The United Kingdom Tobacco Company. No. 127,996; Dec. 16; v. 269; p. 543.
- Cigarettes. The Weideman Co. No. 127,999; Dec. 16; v. 269; p. 544.
- Cinematographic films. World Film Corporation. No. 125,698; June 3; v. 263; p. 164.
- Cinematographic films. World Film Corporation. No. 126,226; July 29; v. 264; p. 862.
- Cleaner for kid gloves and shoes. The Shotwell Company. No. 127,505; Nov. 11; v. 268; p. 375.
- Cleaner for white shoes. Powdered. H. Josephson. No. 126,436; Aug. 26; v. 265; p. 629.
- Cleaners, Hand-operated vacuum. The Marvel Company. No. 124,749; Mar. 11; v. 260; p. 388.
- Cleaning and polishing cream for ivory and silver. Preston Brothers. No. 125,501; May 20; v. 262; p. 476.
- Cleaning and polishing powder for metal and glassware. M. E. Shober. No. 125,365; May 13; v. 262; p. 130.
- Cleaning and polishing preparation for woodwork, &c. C. T. Lewis. No. 127,761; Dec. 2; v. 269; p. 186.
- Cleaning and preserving preparation for varnished surfaces. W. H. Whitmore. No. 128,202; Dec. 23; v. 269; p. 701.
- Cleaning and removing stains from cloth, &c., Composition for. S. Csicsics. No. 124,515; Feb. 25; v. 259; p. 771.
- Cleaning compound. N. F. Sengenberger. No. 127,877; Dec. 9; v. 269; p. 389.
- Cleaning compound for the hands, fabrics, &c. S. W. Rapp, Jr. No. 127,481; Nov. 11; v. 268; p. 374.
- Cleaning-powder compound for wall-paper, carpets, &c. H. Preusse. No. 127,865; Dec. 9; v. 269; p. 389.
- Cleaning-powder for carpets, rugs, &c. D. B. Conclin. No. 125,624; June 3; v. 263; p. 161.
- Cleaning-powder for cloth, leather, &c. Nik-Ko Company. No. 126,732; Sept. 30; v. 266; p. 736.
- Cleaning-powder for metals and glass. O. Hill. No. 125,141; Apr. 15; v. 261; p. 625.
- Cleanser, Metal. D. Bernstein. No. 125,964; July 22; v. 264; p. 695.



## Alphabetical list of trade-marks—Continued.

- Cleansing compound. Oakley Chemical Company. No. 127,103; Oct. 21; v. 267; p. 481.
- Cleansing compound. L. E. Scott. No. 128,167; Dec. 23; v. 269; p. 700.
- Cleansing compound for bath-tubs, tinware, &c. Elberfeld Chemical & Mfg. Co. No. 125,132; Apr. 15; v. 261; p. 625.
- Cleansing compound for clothing. The National Products Co. No. 127,097; Oct. 21; v. 267; p. 480.
- Cleansing compound for rugs and carpets. Rugo Brite Co. No. 127,338; Nov. 11; v. 268; p. 370.
- Cleansing paste, Hand-. M. G. Bullard. No. 126,391; Aug. 26; v. 265; p. 627.
- Cloaks and coats for women and children. Bernhard Ulmann Co. No. 124,269; Jan. 28; v. 258; p. 811.
- Cloaks, suits, dresses, skirts, outer waists. Zelenko & Moskowitz. No. 125,117; Apr. 8; v. 261; p. 408.
- Clocks and watches. Shapleigh Hardware Company. No. 125,517; May 20; v. 262; p. 477.
- Clocks and watches. Western Clock Co. No. 124,428; Feb. 11; v. 259; p. 381.
- Cloth laying, folding, and cutting machines. Cutter-Schneider Machine Company. No. 124,295; Feb. 4; v. 259; p. 177.
- Cloth, Brattice. Mikesell Brothers Company. No. 125,079; Apr. 8; v. 261; p. 407.
- Cloths, Cleaning and polishing. J. C. O. Ritzenthaler. No. 125,512; May 20; v. 262; p. 477.
- Cloths, glass and kitchen towels, &c., Scrub and dish. Musmann & Stuebe. No. 125,482; May 20; v. 262; p. 476.
- Cloths, Wiping and cleaning. A. Ferer & Sons. No. 127,392; Nov. 11; v. 268; p. 371.
- Clothes. M. E. Greenfield Co. No. 128,075; Dec. 23; v. 269; p. 697.
- Clothes-line. American Core-Twine Company. No. 125,949; July 22; v. 264; p. 695.
- Clothes, Work-. J. Baker & Sons. No. 125,957; July 22; v. 264; p. 695.
- Clothing. Elder Manufacturing Company. No. 127,382; Nov. 11; v. 268; p. 371.
- Clothing. J. B. Goldenberg. No. 127,046; Oct. 21; v. 267; p. 479.
- Clothing. J. A. Migel, Inc. No. 126,882; Oct. 7; v. 267; p. 179.
- Clothing. New York Mackintosh Clothing Company. No. 127,159; Oct. 21; v. 267; p. 482.
- Clothing. A. Phillips & Co. No. 126,953; Oct. 14; v. 267; p. 336.
- Clothing, Certain named. Alexander Propper Co. No. 125,581; May 27; v. 262; p. 643.
- Clothing, Certain named. Ashford Underwear Co. No. 126,379; Aug. 26; v. 265; p. 627.
- Clothing, Certain named. B. Breier. No. 125,397; May 20; v. 262; p. 473.
- Clothing, Certain named. Butler Brothers. No. 125,400; May 20; v. 262; p. 473.
- Clothing, Certain named. Cooper Underwear Company. No. 125,195; June 17; v. 263; p. 477.
- Clothing, Certain named. Elder Manufacturing Co. No. 126,413; Aug. 26; v. 265; p. 628.
- Clothing, Certain named. Wm. Filene's Sons Company. No. 124,527; Feb. 25; v. 259; p. 772.
- Clothing, Certain named. Joseph-Louis & Co. No. 125,071; Apr. 8; v. 261; p. 406.
- Clothing, Certain named. M. N. Mayehoff Co., Incorporated. No. 126,230; Aug. 5; v. 265; p. 141.
- Clothing, Certain named. Robert Reis & Co. No. 125,091; Apr. 8; v. 261; p. 407.
- Clothing, Certain named. Treo Company. No. 125,317; May 6; v. 262; p. 166.
- Clothing, Certain named. Union Special Machine Company. No. 124,272; Jan. 28; v. 258; p. 811.
- Clothing, Certain named. Wise & Whitlock. No. 124,917; Mar. 18; v. 260; p. 558.
- Clothing, Children's. Sackman Brothers Company. No. 128,225; Dec. 30; v. 269; p. 881.
- Clothing for ladies and men, Certain named. The Spot Inc. No. 125,100; Apr. 8; v. 261; p. 407.
- Clothing for men, Certain named. The Cellular Clothing Co. No. 124,674; Mar. 11; v. 260; p. 386.
- Clothing for men, women, and children. Noll-Hauworth Company. No. 126,046; July 22; v. 264; p. 698.
- Clothing for men, women, and children, Certain named. W. H. Dilks. No. 125,900; July 8; v. 264; p. 349.
- Clothing for men, women, and children, Certain named. Finch, Van Slyck & McConville. No. 126,003; July 22; v. 264; p. 696.
- Clothing for women. Kohn & Baer. No. 126,869; Oct. 7; v. 267; p. 178.
- Clothing for women, Certain named. G. I. Fuchs. No. 124,237; Jan. 28; v. 258; p. 809.
- Clothing for women, Certain named. A. S. Iserson. No. 124,249; Jan. 28; v. 258; p. 810.
- Clothing, Ladies' and misses' certain named. J. A. Migel, Inc. No. 125,472; May 20; v. 262; p. 475.
- Coal. M. L. Carl. No. 127,348; Nov. 11; v. 268; p. 370.
- Coal. McLaughlin Coal Reduction Company. No. 124,745; Mar. 11; v. 260; p. 388.
- Coal. Monarch Coal Mining Company. No. 124,400; Feb. 11; v. 259; p. 380.
- Coal. Monroe Coal Mining Company. No. 126,319; Aug. 19; v. 265; p. 453.
- Coal and coal-sittings, Compound for improving combustion of. J. P. Feehery. No. 126,155; July 29; v. 264; p. 860.
- Coal, Bituminous. Ford Collieries Company. No. 126,538; Sept. 16; v. 266; p. 446.
- Coasters, Children's. J. P. Jones. No. 128,088; Dec. 23; v. 269; p. 697.
- Coats, &c., made of fabric, fabric and rubber, &c. United States Rubber Company. No. 127,535; Nov. 11; v. 268; p. 376.
- Coats, suits, dresses, skirts, Women's. Marquette Cloak & Suit Co. No. 125,299; May 6; v. 262; p. 165.
- Coats, suits, &c., Women's, misses', and children's. Israel Miller & Co. No. 126,435; Aug. 26; v. 265; p. 629.
- Coats, trousers, overcoats, and rain-coats. Hart, Schaffner & Marx. No. 128,241; Dec. 30; v. 269; p. 881.
- Coats, trousers, waistcoats. Mayers-Hoffman Co. No. 128,121; Dec. 23; v. 269; p. 698.
- Coats, vests, house-gowns, &c. National Shirt Shops. No. 127,456; Nov. 11; v. 268; p. 373.
- Coats, vests, trousers. Abe Bloch and Co. No. 127,333; Nov. 11; v. 268; p. 370.
- Coats, vests, trousers. Goldenberg's. No. 127,278; Nov. 4; v. 268; p. 187.
- Coats, vests, trousers, Men's. Sears, Roebuck and Co. No. 125,099; Apr. 8; v. 261; p. 407.
- Coats, waists, Women's and misses'. Weinreb & Horowitz. No. 124,911; Mar. 18; v. 260; p. 558.
- Cocoa. Charles M. Decker & Bros. No. 128,234; Dec. 30; v. 269; p. 881.
- Cocoa. MacDonald & Co. No. 125,155; Apr. 15; v. 261; p. 626.
- Cocoa-beans for food purposes. C. C. Mengel & Bro. Co. No. 127,090; Oct. 21; v. 267; p. 480.
- Cocoa, chocolate, and candies. Confectioners' Specialty Company. No. 127,727; Dec. 2; v. 269; p. 185.
- Cocanut-butter. Kaola Company. No. 125,574; May 27; v. 262; p. 643.
- Cocanut-butter. Kaola Company. No. 126,025; July 22; v. 264; p. 697.
- Coffee. G. Amsinck & Co. Nos. 126,240-3; Aug. 19; v. 265; p. 451.
- Coffee. G. Amsinck & Co. No. 126,981; Oct. 21; v. 267; p. 477.
- Coffee. The Donald Company. No. 124,824; Mar. 18; v. 260; p. 555.
- Coffee. Dwinell-Wright Company. No. 125,566; May 27; v. 262; p. 643.
- Coffee. Jas. H. Forbes Tea & Coffee Co. No. 126,682; Sept. 30; v. 266; p. 735.
- Coffee. Haas, Baruch & Co. No. 125,339; May 13; v. 262; p. 309.
- Coffee. Hedges-Buck Company. No. 128,243; Dec. 30; v. 269; p. 881.
- Coffee. Henry Lechte Co., Ltd. No. 127,437; Nov. 11; v. 268; p. 373.
- Coffee. Charles E. Hires Company. No. 125,935; July 15; v. 264; p. 531.
- Coffee. Howard & Casey Co. No. 127,060; Oct. 21; v. 267; p. 479.
- Coffee. Howard & Casey Co. No. 127,747; Dec. 2; v. 269; p. 186.
- Coffee. Johnson-Earl-Meyers Company. No. 127,626; Nov. 18; v. 268; p. 558.
- Coffee. J. E. King Coffee Co. No. 124,727; Mar. 11; v. 260; p. 387.
- Coffee. MacAndrews & Forbes Company. No. 126,716; Sept. 30; v. 266; p. 736.
- Coffee. The Minor & Dixon Company. No. 124,203; Jan. 21; v. 258; p. 641.
- Coffee. Naas-Sanderson Co. No. 127,652; Nov. 18; v. 268; p. 559.
- Coffee. The Paquin-Snyder Co. Inc. No. 126,745; Sept. 30; v. 266; p. 737.
- Coffee. Stetson-Barret Co. No. 125,528; May 20; v. 262; p. 477.
- Coffee. Stowell Coffee Co. No. 125,848; June 17; v. 263; p. 479.
- Coffee. The Weideman Company. No. 124,910; Mar. 18; v. 260; p. 558.
- Coffee. The Widlar Co. No. 124,914; Mar. 18; v. 260; p. 558.
- Coffee. John H. Wilkins Company. No. 125,009; Apr. 1; v. 261; p. 199.
- Coffee and tea. James A. McAteer & Sons. No. 124,861; Mar. 18; v. 260; p. 556.
- Coffee and tea. Park & Tilford. No. 124,471; Feb. 18; v. 259; p. 572.
- Coffee, Blended and roasted. Johnson-Earl-Meyers Company. No. 127,627; Nov. 18; v. 268; p. 558.
- Coffee-like beverage. Kellogg Toasted Corn Flake Co. No. 124,106; Jan. 14; v. 258; p. 444.
- Coffee, peanut-butter, olives, &c. Stoddard, Gilbert & Co. No. 126,790; Sept. 30; v. 266; p. 738.
- Coffee, rice, flour, flavoring extracts. J. J. Rogers & Son. No. 125,094; Apr. 8; v. 261; p. 407.
- Coffee, Roasted. Johnson-Earl-Meyers Company. No. 127,628; Nov. 18; v. 268; p. 558.
- Coffee, Roasted. J. J. O'Connor. No. 127,104; Oct. 21; v. 267; p. 481.

- Coffee, Roasted. The Shear Company. No. 124,769; Mar. 11; v. 260; p. 388.
- Coffee, spices, and food-flavoring extracts. H. P. Coffee Company. No. 127,726; Dec. 2; v. 269; p. 185.
- Coffee, tea, &c. Arbuckle Brothers. No. 127,313; Nov. 11; v. 268; p. 369.
- Coffee, tea, and spices. C. F. Blanke Tea & Coffee Co. No. 127,993; Oct. 21; v. 267; p. 477.
- Coffee, tea, cocoa, lemon and vanilla extracts. G. L. Neff. No. 125,753; June 10; v. 263; p. 328.
- Coffee, tea, spices, cocoa. G. H. Hathaway. No. 124,969; Apr. 1; v. 261; p. 197.
- Coffins, caskets, rough boxes for burial purposes. S. Merritt. Nos. 126,720-3; Sept. 30; v. 266; p. 736.
- Collars and cuffs. Cluett, Peabody & Co. No. 127,011; Oct. 21; v. 267; p. 478.
- Collars, cuffs, and shirt-bosoms. Reversible Collar Company. No. 128,161; Dec. 23; v. 269; p. 699.
- Collars, cuffs, shirt-bosoms. Reversible Collar Company. No. 126,065; July 22; v. 264; p. 698.
- Collars, cuffs, shirts, &c. Men's. W. P. Schramm. No. 127,496; Nov. 11; v. 268; p. 375.
- Coloring for foods. H. Kohnstamm & Co. No. 125,747; June 10; v. 263; p. 328.
- Coloring for foods. H. Kohnstamm & Co. No. 126,028; July 22; v. 264; p. 697.
- Coloring substances. F. C. Mathers and J. Papish. No. 125,827; June 17; v. 263; p. 478.
- Colors, Coal-tar. Society of Chemical Industry in Basle. No. 126,086; July 22; v. 264; p. 699.
- Colors, Crude. Nitrate Agencies Company. No. 126,455; Aug. 26; v. 265; p. 629.
- Colors used in ink for printing and lithographing. G. Siegle Company. No. 126,963; Oct. 14; v. 267; p. 336.
- Comb used for straightening human hair. S. M. Fleischer. No. 125,048; Apr. 8; v. 261; p. 406.
- Compasses, sextants, &c. Marine. Nautical Instruments Mfg. Co. No. 127,098; Oct. 21; v. 267; p. 480.
- Compound for preventing accumulation of dust or moisture upon wind-shields and windows. H. A. Mason. No. 126,181; July 29; v. 264; p. 861.
- Compound for the treatment of certain affections and conditions. Certain named. Lloyd Brothers. No. 124,638; Mar. 4; v. 260; p. 197.
- Compound or liquid for treating the eyes. J. A. Grandstrand. No. 125,217; Apr. 22; v. 261; p. 796.
- Computing-disk. Arithmetical. H. Kempenich. No. 126,941; Oct. 14; v. 267; p. 336.
- Concrete barrel mixer. Fairbanks, Morse & Co. No. 124,701; Mar. 11; v. 260; p. 386.
- Concrete columns, &c. A. Chambley. No. 126,518; Sept. 16; v. 266; p. 445.
- Concrete constructions, Head-supports and bar-spacers for reinforced. E. P. Press. No. 126,468; Aug. 26; v. 265; p. 630.
- Concrete-forms. Hydraulic Pressed Steel Company. No. 126,170; July 29; v. 264; p. 860.
- Condition-powder and tonic for sheep, horses, hogs, goats. J. W. Smyser. No. 124,419; Feb. 11; v. 259; p. 381.
- Condition-powder for horses. Perfection Stock Food Company. No. 124,408; Feb. 11; v. 259; p. 380.
- Cones, Ice-cream. Liberty Biscuit Company. No. 127,762; Dec. 2; v. 269; p. 186.
- Confection. L. P. Larson, Jr. Company. No. 125,575; May 27; v. 262; p. 643.
- Confection in the nature of a cake. J. R. McCleskey. No. 125,276; Apr. 29; v. 261; p. 953.
- Construction material, Certain named. Insulation Manufacturing Company. No. 126,293; Aug. 19; v. 265; p. 453.
- Construction materials. Truscon Steel Company. No. 126,795; Sept. 30; v. 266; p. 738.
- Construction materials, Certain named. The National Paint & Varnish Company. No. 125,080; Apr. 8; v. 261; p. 407.
- Conveyers, elevators, &c. Alvey Manufacturing Company. No. 127,173; Oct. 21; v. 267; p. 483.
- Coolers and ice-cream freezers. Jensen Creamery Machinery Company. No. 124,848; Mar. 18; v. 260; p. 556.
- Cooling composition for hot boxes. J. Q. Gill. No. 125,736; June 10; v. 263; p. 327.
- Cooling preparation for use during the machining of metal. Fiske Brothers Refining Co. No. 125,731; June 10; v. 263; p. 327.
- Copper, &c., from ores, &c. Solid chemical compound for extracting. American Nicanide Company. No. 126,122; July 29; v. 264; p. 859.
- Cordial for treatment of derangement of stomach and bowels, Neutralizing. Lloyd Brothers. No. 124,635; Mar. 4; v. 260; p. 197.
- Corduroy. New York Mills Corporation. No. 127,459; Nov. 11; v. 268; p. 373.
- Corduroys. Crompton Company. No. 126,520; Sept. 16; v. 266; p. 445.
- Corduroys. Crompton Company. No. 126,834; Oct. 7; v. 267; p. 177.
- Core compound used in metal-foundries, &c. Hill and Griffith Company. No. 125,651; June 3; v. 263; p. 162.
- Corks. Willis Jason Kendrick Inc. No. 125,113; Apr. 8; v. 261; p. 408.
- Corn and callus remedy. Ems-Block Corporation. No. 128,057; Dec. 23; v. 269; p. 696.
- Corn-cribs, silo-roofs, ventilators, metal shingles. The Thomas and Armstrong Co. No. 127,520; Nov. 11; v. 268; p. 375.
- Corn cure. G. T. Justis. No. 124,100; Jan. 14; v. 258; p. 444.
- Corn flakes. The Baltimore Pearl Hominy Company. No. 127,989; Oct. 21; v. 267; p. 477.
- Corn, Popping. American Pop Corn Company. No. 125,925; July 15; v. 264; p. 531.
- Corn, Popping. American Pop Corn Company. No. 126,124; July 29; v. 264; p. 859.
- Corn products. Clover Leaf Milling Company. No. 126,660; Sept. 30; v. 266; p. 734.
- Corn remedy. H. L. Brinkhoff Company. No. 125,970; July 22; v. 264; p. 695.
- Cornmeal. Dixie Corn Products Company. No. 126,839; Oct. 7; v. 267; p. 177.
- Cornmeal. The Eclipse Milling Company. No. 124,697; Mar. 11; v. 260; p. 386.
- Cornmeal. Lawrenceburg Roller Mills Co. No. 124,854; Mar. 18; v. 260; p. 556.
- Cornmeal. Ralston Purina Company. No. 124,206; Jan. 21; v. 258; p. 641.
- Cornmeal, barley and corn flours. Lawrenceburg Roller Mills Co. No. 125,346; May 13; v. 262; p. 309.
- Corsets. Aurora Corset Company. No. 125,386; May 20; v. 262; p. 473.
- Corsets. Beaux Arts Corset Compagnie. No. 127,323; Nov. 11; v. 268; p. 369.
- Corsets. Berthe May, Inc. No. 126,878; Oct. 7; v. 267; p. 179.
- Corsets. S. H. Camp. No. 126,825; Oct. 7; v. 267; p. 177.
- Corsets. M. J. Hunter. No. 126,018; July 22; v. 264; p. 697.
- Corsets. Lorette Corset Co. No. 126,873; Oct. 7; v. 267; p. 178.
- Corsets. Royal Worcester Corset Co. No. 126,895; Oct. 7; v. 267; p. 179.
- Corsets. Shepard Norwell Company. No. 124,770; Mar. 11; v. 260; p. 388.
- Corsets. A. A. Toohey. No. 124,787; Mar. 11; v. 260; p. 389.
- Corsets and brassières. Kops Bros. No. 126,870; Oct. 7; v. 267; p. 178.
- Corsets and brassières. Weingarten Bros. No. 125,111; Apr. 8; v. 261; p. 408.
- Corsets, brassières, &c. John Wanamaker, New York. No. 127,538; Nov. 11; v. 268; p. 376.
- Corsets, corset-waists, brassières. Linehan-Conover Company. No. 126,871; Oct. 7; v. 267; p. 178.
- Corsets, corset-waists, and brassières. Linehan-Conover Company. No. 128,109; Dec. 23; v. 269; p. 698.
- Cosmetics. C. W. Beggs Sons & Company. No. 127,809; Dec. 9; v. 269; p. 387.
- Cotton and cotton and silk piece goods. Burton Bros. & Co. No. 128,022; Dec. 23; v. 269; p. 695.
- Cotton and linen articles, Certain named. John S. Brown & Sons Limited. No. 125,721; June 10; v. 263; p. 327.
- Cotton and silk piece goods. Arkwright Manufacturing Company. No. 128,218; Dec. 23; v. 269; p. 701.
- Cotton and silk piece goods. Commercial Shirt Company. No. 127,363; Nov. 11; v. 268; p. 370.
- Cotton and silk piece goods, &c. Mills & Gibbs Corporation. No. 127,448; Nov. 11; v. 268; p. 373.
- Cotton cloth piece goods. Campbell, Metzger & Jacobson. No. 128,025; Dec. 23; v. 269; p. 695.
- Cotton fabric. Marlboro Cotton Mills. No. 128,119; Dec. 23; v. 269; p. 698.
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- Cotton fabrics, Certain named. Rousmaniere, Williams & Co. No. 126,577; Sept. 16; v. 266; p. 447.
- Cotton goods. Ely & Walker Dry Goods Company. No. 128,056; Dec. 23; v. 269; p. 696.
- Cotton goods in the piece. Caraleigh Mills Co. No. 124,083; Jan. 14; v. 258; p. 443.
- Cotton goods in the piece, gingham, shirtings, dress goods. Schwarzenbach-Huber Company. No. 124,343; Feb. 4; v. 259; p. 179.
- Cotton, linen, wool, &c., piece goods. Rice-Stix Dry Goods Company. No. 124,991; Apr. 1; v. 261; p. 198.
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- Cotton padding, &c., Woven. Pittsburg Waterproof Company. No. 126,751; Sept. 30; v. 266; p. 737.
- Cotton piece goods. American Bleached Goods Company. No. 125,380; May 20; v. 262; p. 473.
- Cotton piece goods. Amory Browne Export Corp. No. 125,716; June 10; v. 263; p. 327.
- Cotton piece goods. Androscoggin Mills. No. 126,726; Sept. 30; v. 266; p. 736.
- Cotton piece goods. Bates Manufacturing Company. No. 125,958; July 22; v. 264; p. 695.
- Cotton piece goods. Boot Mills. No. 126,514; Sept. 16; v. 266; p. 445.
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- Cotton piece goods. Cohn Hall Marx Co. No. 127,915; Dec. 16; v. 269; p. 541.
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- Cotton piece goods. Denzer & Nathan. No. 124,690; Mar. 11; v. 260; p. 386.
- Cotton piece goods. Fabritex Co. No. 124,963; Apr. 1; v. 261; p. 197.
- Cotton piece goods. The Florence Mills. No. 124,568; Feb. 25; v. 259; p. 773.
- Cotton piece goods. W. R. Grace & Co. No. 125,807; June 17; v. 263; p. 478.
- Cotton piece goods. W. R. Grace & Co. No. 127,407; Nov. 11; v. 268; p. 372.
- Cotton piece goods. The Guarantex Corporation. No. 128,077; Dec. 23; v. 269; p. 697.
- Cotton piece goods. The Harris Company. No. 124,099; Jan. 14; v. 258; p. 444.
- Cotton piece goods. C. B. Hayward & Co. Nos. 125,440-3; May 20; v. 262; p. 475.
- Cotton piece goods. O. H. Hinck. No. 125,342; May 13; v. 262; p. 309.
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- Cotton piece goods. Lancaster Mills. No. 125,345; May 13; v. 262; p. 309.
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- Cotton piece goods. Lewiston Bleachery and Dye Works. No. 126,711; Sept. 30; v. 266; p. 736.
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- Cotton piece goods. Massachusetts Cotton Mills. No. 128,120; Dec. 23; v. 269; p. 698.
- Cotton piece goods. John H. Meyer & Co. No. 124,977; Apr. 1; v. 261; p. 198.
- Cotton piece goods. Nathan and Cohen Co. Inc. No. 128,144; Dec. 23; v. 269; p. 699.
- Cotton piece goods. Neuss, Hesslein & Co. Nos. 125,486-9; May 20; v. 262; p. 476.
- Cotton piece goods. Neuss, Hesslein & Co. No. 125,832; June 17; v. 263; p. 478.
- Cotton piece goods. Nocke Mills. No. 125,355; May 13; v. 262; p. 310.
- Cotton piece goods. Otis Co. No. 126,054; July 22; v. 264; p. 698.
- Cotton piece goods. Otis Company. No. 127,978; Dec. 16; v. 269; p. 543.
- Cotton piece goods. Pacific Mills. No. 125,474; May 20; v. 262; p. 476.
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- Cotton piece goods. R. A. Suffern. No. 124,597; Feb. 25; v. 259; p. 774.
- Cotton piece goods. R. A. Suffern. Nos. 124,782-3; Mar. 11; v. 260; p. 389.
- Cotton piece goods. R. A. Suffern. No. 124,894; Mar. 18; v. 260; p. 557.
- Cotton piece goods. R. A. Suffern. No. 124,909; Apr. 1; v. 261; p. 198.
- Cotton piece goods. R. A. Suffern. Nos. 125,531-2; May 20; v. 262; p. 477.
- Cotton piece goods. Thorndike Company. No. 125,766; June 10; v. 263; p. 328.
- Cotton piece goods. Tootal Broadhurst Lee Co. Nos. 124,788-9; Mar. 11; v. 260; p. 389.
- Cotton piece goods. Wamsutta Mills. Nos. 124,905-8; Mar. 18; v. 260; p. 558.
- Cotton piece goods. Watts, Stebbins Co. No. 124,492; Feb. 18; v. 259; p. 573.
- Cotton piece goods. Watts, Stebbins & Co. No. 125,770; June 10; v. 263; p. 328.
- Cotton piece goods and blankets. Nashua Mfg. Co. No. 127,973; Dec. 16; v. 269; p. 543.
- Cotton piece goods and quilts. Androscoggin Mills. No. 128,129; Dec. 23; v. 269; p. 699.
- Cotton piece goods. Woven. Neuss, Hesslein & Co. No. 124,757; Mar. 11; v. 260; p. 388.
- Cotton piece goods. Woven. Neuss, Hesslein & Co. No. 126,565; Sept. 16; v. 266; p. 446.
- Cotton-seed and soy-bean oil. N. Goodman, Wise & Company. No. 128,073; Dec. 23; v. 269; p. 697.
- Cotton-seed salad-oil. Herman Kienzler Co. No. 125,659; June 3; v. 263; p. 162.
- Cotton-seed salad-oil or a lard substitute. V. Marrone & Company. No. 126,039; July 22; v. 264; p. 698.
- Cotton, silk, &c., piece goods. Mills & Gibb Corporation. No. 127,967; Dec. 16; v. 269; p. 543.
- Cotton, silk, &c., piece goods. United Fabrics Corporation. No. 124,605; Feb. 25; v. 259; p. 774.
- Cotton, silk, and woolen piece goods and combinations thereof. Royal Embroidery Works, Naday & Fleischer. No. 124,884; Mar. 18; v. 260; p. 557.
- Cotton, wool, and cotton and wool mixed piece goods. Solar Textile Co. No. 124,997; Apr. 1; v. 261; p. 198.
- Cotton, woolen, &c., piece goods. Manhattan Hair Cloth Co. No. 128,117; Dec. 23; v. 269; p. 698.
- Cough-drops. G. H. Dietz. No. 125,701; June 3; v. 263; p. 164.
- Cough-drops. Williams Chocolate Co. No. 126,975; Oct. 14; v. 267; p. 337.
- Cough-drops, Candy. W. Gates. No. 126,160; July 29; v. 264; p. 860.
- Cough-drops, Candy. W. Gates. No. 126,421; Aug. 26; v. 265; p. 628.
- Cough-lozenges. Herman Bros. Company. No. 127,618; Nov. 18; v. 268; p. 558.
- Cough remedies and ointments. A. A. Krygier. No. 126,441; Aug. 26; v. 265; p. 629.
- Cough-syrup. H. J. Gray. No. 126,690; Sept. 30; v. 266; p. 735.
- Cough-syrup. A. F. Schambier. No. 126,344; Aug. 19; v. 265; p. 454.
- Coupon-books, Certain named. International Art Publishing Company. No. 124,544; Feb. 25; v. 259; p. 772.
- Crackers and biscuits. Independent Cracker & Biscuit Co. No. 127,280; Nov. 4; v. 268; p. 187.
- Crane and hoisting machinery. Shepard Electric Crane & Hoist Co. No. 127,785; Dec. 2; v. 269; p. 187.
- Crape, Cotton. New Hampton Mills. No. 126,566; Sept. 16; v. 266; p. 446.
- Crape goods in the piece. Pelgram & Meyer. No. 127,980; Dec. 16; v. 269; p. 543.
- Crashes, toweling, towels. Laird Linen Corporation. No. 127,570; Nov. 11; v. 268; p. 377.
- Cravats, Men's. James R. Keiser, Inc. Nos. 126,026-7; July 22; v. 264; p. 697.
- Cream and chap-lotion, Toilet. G. W. Dowswell. No. 126,668; Sept. 30; v. 266; p. 734.
- Cream and hair-pomade, Face. Madam F. Harriet. No. 124,534; Feb. 25; v. 259; p. 772.
- Cream, Face. A. M. Hull. No. 125,144; Apr. 15; v. 261; p. 625.
- Cream, Face. M. H. Kirschbaum. No. 126,175; July 29; v. 264; p. 860.
- Cream, Face. Koken Barbers' Supply Company. No. 124,933; Mar. 25; v. 260; p. 729.
- Cream, Face. M. Robins. No. 127,125; Oct. 21; v. 267; p. 481.
- Cream, Face. Skintex Co. No. 126,084; July 22; v. 264; p. 699.
- Cream, face-powder, rouge, lip-stick, &c., Cold. Lustrite Corporation. No. 127,766; Dec. 2; v. 269; p. 186.
- Cream, Fatty substances used as a base for toilet. S. Smith. No. 125,942; July 15; v. 264; p. 531.
- Cream, foot-lotion, hair-tonic, perfume, Tissue. Marinello Company of Illinois. No. 127,637; Nov. 18; v. 268; p. 559.
- Cream for feet. Casteen & Company. No. 126,652; Sept. 30; v. 266; p. 734.
- Cream for scintica, &c., Menthol and wintergreen. Anglo-American Pharmaceutical Corporation. No. 127,575; Nov. 18; v. 268; p. 557.
- Cream, Massage. N. Forgione. No. 125,215; Apr. 22; v. 261; p. 796.
- Cream, Massage. J. C. Phillips. No. 124,873; Mar. 18; v. 260; p. 557.
- Cream, Medical, &c. H. W. Hoffheimer. No. 127,057; Oct. 21; v. 267; p. 479.
- Cream-of-tartar substitute. Stickney & Poor Spice Co. No. 124,941; Mar. 25; v. 260; p. 729.
- Cream or paste for eyebrows and eyelashes. M. Kaufman. No. 126,866; Oct. 7; v. 267; p. 178.
- Cream, pomade, sachet-powders, &c., Cold. San Antonio Drug Co. No. 126,204; July 29; v. 264; p. 861.
- Cream, Shaving. Peninsular Chemical Co. No. 127,474; Nov. 11; v. 268; p. 374.
- Cream, Shaving and massaging. G. H. Schafer & Co. No. 124,416; Feb. 11; v. 259; p. 380.
- Cream, Toilet. Howard Bros. Chem. Co. No. 125,451; May 20; v. 262; p. 475.
- Cream, Toilet. Howard Bros. Chemical Co. No. 126,017; July 22; v. 264; p. 697.
- Creams and lotions, Facial. R. J. Byers. No. 127,584; Nov. 18; v. 268; p. 557.
- Creams, Face. M. F. Elder. No. 126,412; Aug. 26; v. 265; p. 628.
- Creams, face lotion and powder, rouges, Cold and massage. Eclairissant Beautifier Company. No. 125,420; May 20; v. 262; p. 474.
- Creams, face-powders, &c., Hand. A. W. Earley. No. 126,619; Sept. 30; v. 266; p. 733.
- Creams, Facial. M. Kussner. No. 127,758; Dec. 2; v. 269; p. 186.
- Creams, Toilet. J. B. Williams Company. No. 127,800; Dec. 2; v. 269; p. 188.

- Creams, Vanishing, cold, &c. S. S. Kresge Company. No. 125,230; Apr. 22; v. 261; p. 796.
- Crucibles, Graphite. The Nippon Crucible Company. No. 127,461; Nov. 11; v. 268; p. 374.
- Crutches. Adjustable Artificial Limb Co. No. 124,433; Feb. 18; v. 259; p. 571.
- Cuff-links. Lindahl, Lavick & Company. No. 127,239; Oct. 28; v. 267; p. 644.
- Cultivators and parts thereof. Deere & Company. No. 127,820; Dec. 9; v. 269; p. 387.
- Cultivators and weeder. J. E. Gilson. No. 127,405; Nov. 11; v. 268; p. 372.
- Curd and whey tablets. Viking Rennet Company. No. 124,620; Feb. 25; v. 259; p. 774.
- Curtain-fixture, stair-carpet fasteners, sash-holders. James H. Boye Manufacturing Company. No. 124,953; Apr. 1; v. 261; p. 197.
- Custards, Preparation for making. H. D. Boddington. No. 126,921; Oct. 14; v. 267; p. 335.
- Cuticle-remover and nail-polish, Liquid. Northam Warren Corporation. No. 126,458; Aug. 26; v. 265; p. 629.
- Cutlery. M. Klaas. No. 127,845; Dec. 9; v. 269; p. 388.
- Cutlery. John Russell Cutlery Company. No. 126,764; Sept. 30; v. 266; p. 737.
- Cutlery and machinery, Certain named. Rosenbaum & Mogal. No. 125,249; Apr. 22; v. 261; p. 797.
- Cutlery, Certain named. Bonney Vise & Tool Works, Inc. No. 126,250; Aug. 19; v. 265; p. 451.
- Cutlery, Certain named. Shapleigh Hardware Company. No. 125,518; May 20; v. 262; p. 477.
- Cutlery, machinery, &c. The Cutaway Harrow Co. No. 124,686; Mar. 11; v. 260; p. 386.
- Cutlery, machinery, &c. The Lunkenheimer Co. No. 127,081; Oct. 21; v. 267; p. 480.
- Cutlery, machinery, &c. W. Suckling & Sons. No. 124,781; Mar. 11; v. 260; p. 389.
- Cutlery, machinery, &c. L. A. Young Industries. No. 124,808; Mar. 11; v. 260; p. 390.
- Cutlery, machinery, and tools, &c. Chain Belt Company. Nos. 126,139-40; July 29; v. 264; p. 859.
- Cutlery, machinery, and tools, and parts thereof, Certain named. A. Baldwin & Co. No. 125,556; May 27; v. 262; p. 643.
- Cutlery, machinery, and tools, and parts thereof, Certain named. The Klauber Trading Corporation. No. 124,314; Feb. 4; v. 259; p. 178.
- Cutlery, machinery, and tools, and parts thereof, Certain named. Paragon Tool Company. No. 126,192; July 29; v. 264; p. 861.
- Cutlery, machinery, &c., Certain named. American Insulating Machinery Company. No. 124,652; Mar. 11; v. 260; p. 385.
- Cutlery, machinery, &c., Certain named. Goddard & Goddard Company. No. 125,432; May 20; v. 262; p. 474.
- Cutlery, tools, &c. John Pritzlaff Hardware Co. No. 126,955; Oct. 14; v. 267; p. 336.
- Cutlery, tools, &c. Shapleigh Hardware Company. No. 127,132; Oct. 21; v. 267; p. 481.
- Cutters, mills, hobs, saws, &c. Union Twist Drill Co. No. 126,223; July 29; v. 264; p. 862.
- Cyanamid, sulfate of ammonia, &c. American Cyanamid Company. No. 124,434; Feb. 18; v. 259; p. 571.
- Cylinder-lubricators, bearing-oilers, oil-pumps, &c. Michigan Lubricator Company. No. 128,126; Dec. 23; v. 269; p. 698.
- Cylinders and bottles to contain fluids under pressure. British Mannesmann Tube Company. No. 124,816; Mar. 18; v. 260; p. 555.
- Damask, cloths, and tops, napkins, Table. James F. White & Company. No. 128,203; Dec. 23; v. 269; p. 701.
- Dandruff-destroyer and hair-grower. A. Bona. No. 125,967; July 22; v. 264; p. 695.
- Dandruff-exterminator. Koken Barbers' Supply Company. Nos. 127,631-2; Nov. 18; v. 268; pp. 558-9.
- Decolorizing-carbon. Refining Products Corporation. No. 126,469; Aug. 26; v. 265; p. 630.
- Decorators' and paper-hangers' tools and supplies. The Ridgely Trimmer Company. No. 126,960; v. 267; p. 336.
- Dental, &c., appliances, Certain named. The Celluloid Company. No. 124,228; Jan. 28; v. 258; p. 809.
- Dental appliances. S. H. Reynolds' Sons Company. No. 126,959; Oct. 14; v. 267; p. 336.
- Dental cements, alloys, gold, &c. Fawcett & Fawcett. No. 126,275; Aug. 19; v. 265; p. 452.
- Dental chairs. S. S. White Dental Manufacturing Company. No. 124,945; Mar. 25; v. 260; p. 729.
- Dental cream, hair-tonic, and mouth-wash. Frederick Stearns & Co. No. 126,789; Sept. 30; v. 266; p. 738.
- Dental cream or tooth-paste. F. M. Johnson. No. 124,546; Feb. 25; v. 259; p. 772.
- Dental creams. B. E. Turney. No. 127,694; Nov. 18; v. 268; p. 560.
- Dental enamel. L. S. Smith & Son Manufacturing Company. No. 126,349; Aug. 19; v. 265; p. 454.
- Dental-floss holders. W. T. Elzinga. No. 125,212; Apr. 22; v. 261; p. 795.
- Dental, medical, and surgical appliances. The Celluloid Company. No. 126,924; Oct. 14; v. 267; p. 335.
- Dental, medical, and surgical appliances, Certain named. Davol Rubber Company. No. 124,232; Jan. 28; v. 258; p. 809.
- Dental metal. Fox Dental Supply Co. No. 124,091; Jan. 14; v. 258; p. 443.
- Dental preparation. T. F. Crawford. No. 126,404; Aug. 26; v. 265; p. 628.
- Dental preparation. Creolina Chemical Company. No. 126,833; Oct. 7; v. 267; p. 177.
- Dentists, surgeons, Electric outfits for. W. J. Cameron. No. 128,024; Dec. 23; v. 269; p. 695.
- Dentifrice. Barclay & Co. No. 125,187; Apr. 22; v. 261; p. 795.
- Dentifrice and alkaloids in solution for pyorrhea, &c. Alvore Chemical Company. No. 125,185; Apr. 22; v. 261; p. 795.
- Denture, Artificial. Dr. T. J. King-Clarence W. King. D. D. S. No. 126,707; Sept. 30; v. 266; p. 735.
- Deodorizer and disinfectant. The Sanifect Co. No. 126,772; Sept. 30; v. 266; p. 737.
- Depilatory. J. Doniger. No. 125,985; July 22; v. 264; p. 696.
- Depilatory. C. E. Hansen. No. 125,438; May 20; v. 262; p. 474.
- Depilatory preparations. W. E. Steele. No. 125,315; May 6; v. 262; p. 166.
- Desks, Combination portable. L. E. Myers. No. 126,322; Aug. 19; v. 265; p. 453.
- Dessert-powder. Holland Rusk Co. No. 125,054; Apr. 8; v. 261; p. 406.
- Detergent stain-removing composition. I. Currie. No. 124,516; Feb. 25; v. 259; p. 771.
- Devices to be attached to carburetors of internal-combustion engines. T. A. Edison, Jr. No. 128,050; Dec. 23; v. 269; p. 696.
- Dextrinous product used as a substitute, in part, for flour. Stein, Hall & Co. No. 125,316; May 6; v. 262; p. 166.
- Dial-thermometers. Schaeffer and Budenberg. No. 126,205; July 29; v. 264; p. 861.
- Dips, Cattle, sheep, and horse. Baird & McGuire. No. 125,387; May 20; v. 262; p. 473.
- Disinfectant. J. J. Bonner. No. 126,388; Aug. 26; v. 265; p. 627.
- Disinfectant. J. H. Karp. No. 125,818; June 17; v. 263; p. 478.
- Disinfectant. D. Phillips. No. 127,664; Nov. 18; v. 268; p. 560.
- Disinfectant and antiseptic. American Druggists Syndicate. No. 126,817; Oct. 7; v. 267; p. 177.
- Disinfectants and insecticides. United Sanitary Products Co. No. 125,768; June 10; v. 263; p. 328.
- Display-counters. Sherer Gillett Co. No. 124,886; Mar. 18; v. 260; p. 557.
- Distillate from apocynum cannabinum. Lloyd Brothers. No. 124,639; Mar. 4; v. 260; p. 197.
- Dolls. E. Allison. No. 126,234; Aug. 19; v. 265; p. 451.
- Dolls. D. M. Crosby. No. 126,143; July 29; v. 264; p. 859.
- Dolls. The Faultless Rubber Co. No. 125,272; Apr. 29; v. 261; p. 953.
- Dolls. E. I. Horsman Co. No. 124,539; Feb. 25; v. 259; p. 772.
- Dolls. M. A. McAbay. No. 125,072; Apr. 8; v. 261; p. 406.
- Dolls. A. B. Stevens. No. 126,357; Aug. 19; v. 265; p. 454.
- Dolls. M. S. Wingert. No. 125,601; May 27; v. 262; p. 644.
- Dolls and doll outfits. Glebeler-Falk Doll Corporation. No. 128,070; Dec. 23; v. 269; p. 697.
- Dolls and wigs thereof. Dallwig Distributing Co. No. 126,931; Oct. 14; v. 267; p. 335.
- Dolomite, Prepared. T. R. Heyward, Jr. No. 124,247; Jan. 28; v. 258; p. 810.
- Door hinges, spring, and pulls. Rockwell Manufacturing Company. No. 126,199; July 29; v. 264; p. 861.
- Doors, sash, and millwork. Morgan Company. No. 128,136; Dec. 23; v. 269; p. 699.
- Doors, Sheet-metal. E. D. Fitzpatrick. No. 126,937; Oct. 14; v. 267; p. 335.
- Draperies and decorative fabrics. Marshall Field & Company. No. 125,467; May 20; v. 262; p. 475.
- Dress-fasteners. Columbia Fastener Company. No. 124,821; Mar. 18; v. 260; p. 555.
- Dress-fasteners. Columbia Fastener Company. No. 124,923; Mar. 25; v. 260; p. 729.
- Dress-shields. A. Oettinger. No. 127,466; Nov. 11; v. 268; p. 374.
- Dress-shields. Samstag and Hilder Bros. No. 125,914; July 8; v. 264; p. 349.
- Dresses. Hirschfeld Bros.-Alberstein Garment Co. No. 126,858; Oct. 7; v. 267; p. 178.
- Dresses. The Lurie Co. No. 124,742; Mar. 11; v. 260; p. 388.
- Dresses. John Wanamaker, Philadelphia. No. 127,300; Nov. 4; v. 268; p. 188.
- Dresses and hats, Babies'. L. A. Kellner & Bro. No. 126,867; Oct. 7; v. 267; p. 178.
- Dresses and hats, Ladies'. The Wardrobe Shop. No. 124,274; Jan. 28; v. 258; p. 811.
- Dresses and outer waists, Women's. National Black Goods Company, Inc. No. 123,142; Dec. 23; v. 269; p. 699.



## Alphabetical list of trade-marks—Continued.

- Dresses, Children's. Maher & Kessler. No. 125,277; Apr. 29; v. 261; p. 953.
- Dresses, coats, suits, Children's. Sunshine Cloak & Suit Company. No. 126,093; July 22; v. 264; p. 699.
- Dresses, Girls'. Cohn, Goldwater Company. No. 126,829; Oct. 7; v. 267; p. 177.
- Dresses, Girls'. Cohn, Goldwater Company. No. 127,268; Nov. 4; v. 268; p. 187.
- Dresses, hats, skirts, coats, Ladies' and children's. M. E. Sanborn. No. 125,309; May 6; v. 262; p. 165.
- Dresses, Ladies'. Lerner & Goldsmith. No. 125,824; June 17; v. 263; p. 478.
- Dresses, Ladies'. The Wardrobe Shop. No. 124,623; Feb. 25; v. 259; p. 774.
- Dresses, Silk, lawn, &c., fabrics. Mannie Solomon Co., Inc. No. 126,903; Oct. 7; v. 267; p. 179.
- Dresses, Women's and children's. Rosemary Dressmakers. No. 127,872; Dec. 9; v. 269; p. 389.
- Dressing. F. Degner. No. 126,664; Sept. 30; v. 266; p. 734.
- Driers and blowers, Electric. The Electric Mfg. Co. No. 124,301; Feb. 4; v. 259; p. 177.
- Drills, Air-. Chicago Pneumatic Tool Company. No. 124,677; Mar. 11; v. 260; p. 386.
- Drills and files. Mondial Steel and Tool Company. No. 125,750; June 10; v. 263; p. 328.
- Drills, Cotton. Boott Mills. No. 128,132; Dec. 23; v. 269; p. 699.
- Drills, Cotton. Boott Mills. No. 126,185; July 29; v. 264; p. 861.
- Drills, dies, &c. C. E. Johansson. No. 126,172; July 29; v. 264; p. 860.
- Drills, drill-handles, and points. Diamond Expansion Bolt Co. No. 124,694; Mar. 11; v. 260; p. 386.
- Drills, drill handles and points. Diamond Expansion Bolt Co. No. 125,041; Apr. 8; v. 261; p. 406.
- Drills, drill handles, points, and bits. Diamond Expansion Bolt Co. No. 124,693; Mar. 11; v. 260; p. 386.
- Drills, High-speed twist-. National Device and Drill Company. No. 125,483; May 20; v. 262; p. 476.
- Drills, milling-tools, &c. Earth-boring. Hughes Tool Company. No. 126,549; Sept. 16; v. 266; p. 446.
- Drills, Radial and upright. The Fosdick Machine Tool Company. No. 126,539; Sept. 16; v. 266; p. 446.
- Drills, Rock-. The Denver Rock Drill Manufacturing Company. No. 125,800; June 17; v. 263; p. 477.
- Drills, Twist-. Latrobe Tool Company. No. 127,078; Oct. 21; v. 267; p. 480.
- Drink, Cereal food. Geyser Cereal Co. No. 127,184; Oct. 21; v. 267; p. 483.
- Drinks, Soft. Peninsula Products Company. No. 126,335; Aug. 19; v. 265; p. 454.
- Duck. International Cotton Mills. No. 125,936; July 15; v. 264; p. 531.
- Duck, Cotton. Mount Vernon-Woodberry Mills. Nos. 125,480-1; May 20; v. 262; p. 476.
- Duck, Cotton. Mount Vernon-Woodberry Mills. No. 127,258; Oct. 28; v. 267; p. 644.
- Duck, Cotton. Mount Vernon-Woodberry Mills. Nos. 128,137-40; Dec. 23; v. 269; p. 699.
- Duplicating-machines. Duplicator Manufacturing Company. No. 125,632; June 3; v. 263; p. 161.
- Duplicating-machines. Duplicator Manufacturing Company. No. 127,224; Oct. 28; v. 267; p. 643.
- Duplicating-machines, Duplicating-rolls for. Duplicator Manufacturing Company. No. 127,223; Oct. 28; v. 267; p. 643.
- Dye. Andersen, Meyer & Co. Nos. 127,705-10; Dec. 2; v. 269; p. 185.
- Dye for coating straw hats, &c. Dyene Chemical Co. No. 126,411; Aug. 26; v. 265; p. 628.
- Dye, Leather-. Restorff & Bettmann. No. 125,757; June 10; v. 263; p. 328.
- Dyes. Ezekiel Brothers. No. 125,422; May 20; v. 262; p. 474.
- Dyes. North American Dye Corporation. No. 125,755; June 10; v. 263; p. 328.
- Dyes. Palatine Aniline & Chemical Corporation. No. 124,871; Mar. 18; v. 260; p. 557.
- Dyes. Palatine Aniline & Chemical Corporation. No. 127,777; Dec. 2; v. 269; p. 187.
- Dyes. A. Passero. No. 127,779; Dec. 2; v. 269; p. 187.
- Dyes. E. Suter & Company. No. 125,849; June 17; v. 263; p. 479.
- Dyes. Thomas W. Simmons & Co. No. 127,787; Dec. 2; v. 269; p. 187.
- Dyes. Tower Manufacturing Co. No. 126,794; Sept. 30; v. 266; p. 738.
- Dyes, Acid color. Marden, Orth & Hastings Corporation. No. 124,323; Feb. 4; v. 259; p. 178.
- Dyes and tanning extracts. Marden, Orth & Hastings Corporation. No. 126,035; July 22; v. 264; p. 697.
- Dyes combined with soap. Cinderella Dye Soap Corporation. No. 124,512; Feb. 25; v. 259; p. 771.
- Dyes, Mineral. L. B. Holliday & Co. No. 124,833; Mar. 18; v. 260; p. 555.
- Dyestuffs. Jennings & Company. Nos. 125,454-5; May 20; v. 262; p. 475.
- Dyestuffs, cattle-dip, sodium arsenate, and insecticides. Frank Hemingway, Inc. No. 127,617; Nov. 18; v. 268; p. 558.
- Dyestuffs, Coal-tar. National Aniline & Chemical Company, Inc. No. 126,949; Oct. 14; v. 267; p. 336.
- Echinacea preparation for surgical uses. Lloyd Brothers. No. 124,642; Mar. 4; v. 260; p. 197.
- Effervescent granular. J. Di Santo. No. 125,333; May 13; v. 262; p. 309.
- Egg and baking-powder substitute. Henry D. Bodding-ton. No. 125,966; July 22; v. 264; p. 695.
- Egg-preservative. Albany Chemical Co. No. 126,375; Aug. 26; v. 265; p. 627.
- Egg-preservatives and insecticides. Nitrate Agencies Company. No. 126,456; Aug. 26; v. 265; p. 629.
- Egg substitute. American Economy Products Co. No. 124,651; Mar. 11; v. 260; p. 385.
- Egg substitute. Arthur N. Christy & Co. No. 125,864; June 24; v. 263; p. 631.
- Egg substitute. National Baker's Egg Company. No. 124,331; Feb. 4; v. 259; p. 178.
- Egg substitute. Newton Tea & Spice Co. No. 126,325; Aug. 19; v. 265; p. 453.
- Egg substitute. Sunbeam Products Co. No. 125,369; May 13; v. 262; p. 310.
- Egg substitute. Wixon Spice Co. No. 124,918; Mar. 18; v. 260; p. 558.
- Eggs. Columbia Cheese Co. No. 127,361; Nov. 11; v. 268; p. 370.
- Eggs. R. A. Jennings. No. 126,297; Aug. 19; v. 265; p. 453.
- Eggs. I. A. Wallins. No. 125,687; June 3; v. 263; p. 163.
- Elbows for stovepipes and flues, Adjustable. L. D. Berger. No. 127,327; Nov. 11; v. 268; p. 369.
- Electric current. Unitary outfits for generating. Alamo Farm Light Co. No. 127,804; Dec. 9; v. 269; p. 387.
- Electric generating units, Automatic. C. B. Strouse. No. 126,582; Sept. 16; v. 266; p. 447.
- Electric-light, &c., poles, pit-props, semaphore-masts, trolley-booms. British Mannesmann Tube Company. No. 124,080; Jan. 14; v. 258; p. 443.
- Electric light and power plants and outfits. Lalley Light Corporation. No. 128,096; Dec. 23; v. 269; p. 698.
- Electric motors, generators, transformers, &c. The Stamford Electric & Manufacturing Company. No. 124,776; Mar. 11; v. 260; p. 389.
- Electric power and light systems. Swartz Electric Company. No. 126,221; July 29; v. 264; p. 862.
- Electric-power generating and electric-lighting systems, Complete self-contained. Essandee Corporation. No. 127,608; Nov. 18; v. 268; p. 558.
- Electric starting mechanism. Liberty Starters Corporation. No. 127,436; Nov. 11; v. 268; p. 373.
- Electric switches. Connecticut Telephone & Electric Co. No. 124,684; Mar. 11; v. 260; p. 386.
- Electric vacuum-cleaner. H. B. Carter. No. 127,350; Nov. 11; v. 268; p. 370.
- Electrical apparatus. The Celluloid Company. No. 126,515; Sept. 16; v. 266; p. 445.
- Electrical apparatus, &c. The Celluloid Company. Nos. 126,655-6; Sept. 30; v. 266; p. 734.
- Electrical apparatus, machines, and supplies. American Bosch Magneto Corporation. No. 127,210; Oct. 28; v. 267; p. 643.
- Electrical-arc welders. The Arcwell Corporation. No. 124,282; Feb. 4; v. 259; p. 177.
- Electrical-insulator connections. E. A. Walshaw. No. 127,700; Nov. 18; v. 268; p. 561.
- Electrical switch. W. F. Hessel. No. 124,307; Feb. 4; v. 259; p. 178.
- Electrical switches, ignition-generators, spark-plugs. Splendor Electrical Company. No. 126,581; Sept. 16; v. 266; p. 447.
- Electrical-wiring conduits. The American Conduit Manufacturing Company. No. 126,508; Sept. 16; v. 266; p. 445.
- Electrical-wiring fixtures, Certain named. The American Conduit Manufacturing Company. No. 124,280; Feb. 4; v. 259; p. 177.
- Electrically-heated appliances. Landers, Frary & Clark. No. 127,076; Oct. 21; v. 267; p. 480.
- Electricity-generating sets. S. J. Matthews. No. 124,858; Mar. 18; v. 260; p. 556.
- Embalming, Certain named chemical compounds used in. National Casket Company. No. 124,934; Mar. 25; v. 260; p. 729.
- Emblems and badges made wholly or in part of precious metal. A. Spear. No. 128,176; Dec. 23; v. 269; p. 700.
- Emery-boards, nail-files, manicure sticks and buffers. Northham Warren Corporation. No. 124,134; Jan. 14; v. 258; p. 445.
- Emulsion for influenza, &c. O. Flores. No. 125,570; May 27; v. 262; p. 643.
- Enamel. Friggs Bituminous Composition Company. No. 125,193; Apr. 22; v. 261; p. 795.
- Enamel, Face-. M. Olmsted. No. 126,735; Sept. 30; v. 266; p. 736.
- Enamels, paints, &c. The Northwestern Chemical Co. No. 127,975; Dec. 16; v. 269; p. 543.
- Enamels, rim-paint, &c. Northwestern Chemical Co. No. 127,656; Nov. 18; v. 268; p. 559.
- Enameled metal ware. National Enameling & Stamping Co. No. 125,484; May 20; v. 262; p. 476.

- Enameled metal ware. National Enameling and Stamping Co. No. 125,752; June 10; v. 263; p. 328.
- Enameled ware. Central Stamping Company. No. 128,028; Dec. 23; v. 269; p. 696.
- Enameled ware for household use, Certain named. Columbian Enameling & Stamping Company. Nos. 125,033-4; Apr. 8; v. 261; p. 405.
- Enameled ware for household use, Certain named. Columbian Enameling & Stamping Company. No. 125,407; May 20; v. 262; p. 474.
- Enameled ware, Household. Columbian Enameling & Stamping Company. No. 125,865; June 24; v. 263; p. 631.
- Engine, Electrical heating element for attachment to an internal-combustion. F. C. Roegge. No. 126,572; Sept. 16; v. 266; p. 447.
- Engine ignition-system timers. Internal-combustion. Zenite Metal Company. No. 126,374; Aug. 19; v. 265; p. 455.
- Engine timers. Internal-combustion. Auto Components Inc. No. 126,512; Sept. 16; v. 266; p. 445.
- Engine tools. Internal-combustion. The Loomis-Beardsley Mfg. Co. No. 125,663; June 3; v. 263; p. 162.
- Engines, Air-compressing. John Wanamaker, New York. No. 124,803; Mar. 11; v. 260; p. 389.
- Engines and clutches, Transmission-gearing for. Evans Stamping & Plating Co. No. 124,446; Feb. 18; v. 259; p. 571.
- Engines and cream-separating machines. Internal-combustion. Associated Manufacturers Company. No. 127,316; Nov. 11; v. 268; p. 369.
- Engines and parts thereof. Internal-combustion. United States of America. No. 125,853; June 17; v. 263; p. 479.
- Engines and pumps, Steam, &c. Western Rope & Manufacturing Company. No. 126,616; Sept. 23; v. 266; p. 593.
- Engines. Internal-combustion. Falls Motors Corporation. No. 124,702; Mar. 11; v. 260; p. 386.
- Engines, Timers for internal-combustion. Auto Components, Inc. No. 127,012; Oct. 21; v. 267; p. 478.
- Envelops. The Miller Brothers Company. No. 125,906; July 8; v. 264; p. 349.
- Envelops for mailing merchandise. C. T. Frezzy. No. 127,230; Oct. 28; v. 267; p. 643.
- Envelops, Mailing. Gopher Envelope Company. No. 126,687; Sept. 30; v. 266; p. 735.
- Envelops, Mailing. Minnesota Wax Paper Company. No. 126,452; Aug. 26; v. 265; p. 629.
- Erasers, Metal polishing or cleaning. Weldon Roberts Rubber Co. No. 127,123; Oct. 21; v. 267; p. 481.
- Ergot extracts and a preparation of hydrastis. Lloyd Brothers. No. 124,637; Mar. 4; v. 260; p. 197.
- Ethyl alcohol. U. S. Industrial Chemical Co. No. 124,606; Feb. 25; v. 259; p. 774.
- Exhaust-heads, &c. The Ohio Blower Company. No. 126,733; Sept. 30; v. 266; p. 736.
- Extract which stabilizes, stimulates, and gives zest to beverages. W. A. Koch. No. 125,229; Apr. 22; v. 261; p. 796.
- Extract white-pine compound. J. L. Hopkins & Company. No. 125,448; May 20; v. 262; p. 475.
- Extracts for non-alcoholic beverages, Fruit. P. Maggini. No. 126,186; July 29; v. 264; p. 861.
- Eye-lotions. M. L. Levitt. No. 126,446; Aug. 26; v. 265; p. 629.
- Eye preparation. Early Day Co. No. 126,841; Oct. 7; v. 267; p. 177.
- Eye treatment, Medicinal. D. R. Williams. No. 128,204; Dec. 23; v. 269; p. 701.
- Eye-wash. Optolene Co. No. 125,495; May 20; v. 262; p. 476.
- Eyeglass mountings and frames. The C. & E. Marshall Company. No. 125,238; Apr. 22; v. 261; p. 796.
- Eyeglasses. H. W. Schoebel. No. 125,844; June 17; v. 263; p. 479.
- Fabric. Leshner. Whitman & Co. No. 128,105; Dec. 23; v. 269; p. 698.
- Fabric made with a cotton warp and filling of wool, &c. Leshner, Whitman & Co. No. 126,601; Sept. 23; v. 266; p. 593.
- Fabrics, Certain named. J. Dunn, Son & Company. No. 124,522; Feb. 25; v. 259; p. 771.
- Fabrics, cotton piece goods, Uncoated. New York Mills Corporation. No. 127,974; Dec. 16; v. 269; p. 543.
- Fabrics, Dress. Royal Embroidery Works, Naday and Fleischer. Nos. 124,473-4; Feb. 18; v. 259; p. 572.
- Fabrics, Dress. Royal Embroidery Works, Naday & Fleischer. No. 125,514; May 20; v. 262; p. 477.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 126,131; July 29; v. 264; p. 859.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 126,578; Sept. 16; v. 266; p. 447.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co., Inc. No. 127,334; Nov. 11; v. 268; p. 370.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 127,902-3; Dec. 16; v. 269; p. 541.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 128,010-15; Dec. 23; v. 269; p. 695.
- Fabrics made of silk, cotton, mohair, &c. Pile. A. Hoehnlsberger. No. 127,950; Dec. 16; v. 269; p. 542.
- Fabrics of silk and silk mixtures in the piece. Cheney Brothers. No. 128,019; Dec. 23; v. 269; p. 695.
- Fabrics, Pile. L. C. Chase & Company. No. 127,907; Dec. 16; v. 269; p. 541.
- Fabrics, Pile. Sidney Blumenthal & Co. No. 126,813; Sept. 30; v. 266; p. 739.
- Fabrics, Textile. Baby's Boudoir, Inc. No. 127,899; Dec. 16; v. 269; p. 541.
- Fabrics, Textile. Cromwell Brothers. No. 127,918; Dec. 16; v. 269; p. 541.
- Fabrics, Textile. Tocal Broadhurst Lee Company Limited. No. 127,995; Dec. 16; v. 269; p. 543.
- Fancy goods, &c. Certain named. Arbeka Webbing Company. No. 125,382; May 20; v. 262; p. 473.
- Fans and blowers, Portable electric. Claxo Company. No. 127,588; Nov. 18; v. 268; p. 557.
- Fans, Electric oscillating. Ercole Marelli & Co. Nos. 125,075-6; Apr. 8; v. 261; p. 407.
- Fans, Electric oscillating. Ercole Marelli & Co. No. 126,037; July 22; v. 264; p. 697.
- Fans for cooling engines of automobiles, &c. Automotive Parts Company. No. 128,001; Dec. 23; v. 269; p. 695.
- Fans, motors, and blowers for ventilating purposes. Bat-terman Truitt Company. No. 125,608; June 3; v. 263; p. 161.
- Farm implements, Certain named. Blount Plow Works. No. 125,190; Apr. 22; v. 261; p. 795.
- Fasteners, Snap and placket. Federal Snap Fastener Corporation. No. 128,062; Dec. 23; v. 269; p. 697.
- Feed, Animal. Anheuser-Busch Brewing Association. Nos. 127,576-7; Nov. 18; v. 268; p. 557.
- Feed, Animal. Anheuser-Busch Brewing Ass'n. No. 127,806; Dec. 9; v. 269; p. 387.
- Feed, Chicken. Rockfield Products Company. No. 125,882; June 24; v. 263; p. 631.
- Feed, Chicken. Rockfield Products Company. No. 127,295; Nov. 4; v. 268; p. 188.
- Feed, Compounded ground. Blatchford Calf Meal Company. No. 124,951; Apr. 1; v. 261; p. 197.
- Feed cutters and grinders, silo-fillers, &c. Silver Manufacturing Company. No. 126,608; Sept. 23; v. 266; p. 593.
- Feed, Dairy. Fisher Flouring Mills Company. No. 125,568; May 27; v. 262; p. 643.
- Feed, Dairy. Golden Grain Milling Company. No. 124,843; Mar. 18; v. 260; p. 556.
- Feed, Dairy, &c. International Sugar Feed Co. No. 124,103; Jan. 14; v. 258; p. 444.
- Feed for dairy-cows. Sunnybrook Company. No. 124,161; Jan. 14; v. 258; p. 446.
- Feed, Hog. Golden Grain Milling Company. No. 124,842; Mar. 18; v. 260; p. 556.
- Feed, Horse and mule. Golden Grain Milling Company. No. 124,844; Mar. 18; v. 260; p. 556.
- Feed, Limestone-rock chicken. Rockfield Products Company. No. 125,362; May 13; v. 262; p. 310.
- Feed, Poultry. Allen Milling Company. No. 124,215; Jan. 28; v. 258; p. 809.
- Feed, Poultry. Hyman & Ackerman. No. 126,020; July 22; v. 264; p. 697.
- Feed, Stock. Fisher Flouring Mills Company. No. 124,448; Feb. 18; v. 259; p. 571.
- Feed, Stock. Fisher Flouring Mills Company. No. 124,827; Mar. 18; v. 260; p. 555.
- Feed, Stock. Golden Grain Milling Company. No. 125,049; Apr. 8; v. 261; p. 406.
- Feed, Stock and poultry. J. J. Badenoch Co. No. 125,862; June 24; v. 263; p. 631.
- Feed-water heaters, Condensers, &c. for. Row & Davis, Engineers. No. 124,883; Mar. 18; v. 260; p. 557.
- Feeds. International Sugar Feed Co. No. 124,101; Jan. 14; v. 258; p. 444.
- Feeds for horses, mules, &c. Golden Grain Milling Co. No. 124,964; Apr. 1; v. 261; p. 197.
- Feeds, Poultry and stock. Wm. T. Reynolds & Co. No. 127,294; Nov. 4; v. 268; p. 188.
- Feeds, Poultry and stock. Simmons & Norris. No. 125,366; May 13; v. 262; p. 310.
- Feeds, Stock. Southern Feed Company. No. 126,484; Aug. 26; v. 265; p. 630.
- Fence-posts and fences, Metal. The Thiele & Baker Manufacturing Company. No. 125,589; May 27; v. 262; p. 644.
- Fence-posts, Metallic. Chicago Steel Post Company. No. 125,561; May 27; v. 262; p. 643.
- Fence-wire, wire fences, cloth, &c. The Firth Company. No. 126,936; Oct. 14; v. 267; p. 335.
- Fenceposts, Red-cedar. E. T. Chapin Co. No. 127,352; Nov. 11; v. 268; p. 370.
- Fertilizer. William B. Tilghman Co. No. 125,590; May 27; v. 262; p. 644.
- Fertilizer, Cotton-plant. A. D. Adair & McCarty Bros. No. 125,774; June 17; v. 263; p. 477.
- Fertilizers. The American Agricultural Chemical Co. No. 124,217; Jan. 28; v. 258; p. 809.
- Fertilizers. F. Crutchfield. No. 124,514; Feb. 25; v. 259; p. 771.
- Fertilizers. F. Crutchfield. No. 125,036; Apr. 8; v. 261; p. 405.
- Fertilizers. Furman Farm Improvement Co. No. 124,451; Feb. 18; v. 259; p. 571.



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- Fertilizers. The Hubbard Fertilizer Company of Baltimore City. No. 126,434; Aug. 26; v. 265; p. 628.
- Fertilizers. Lister's Agricultural Chemical Works. No. 127,633; Nov. 18; v. 268; p. 559.
- Fertilizers. Nitrate Agencies Company. No. 127,199; Oct. 21; v. 267; p. 484.
- Fertilizers. Wilson & Co. No. 124,211; Jan. 21; v. 258; p. 641.
- Fertilizers, Chemical. Molassine Company. No. 126,317; Aug. 19; v. 265; p. 453.
- Fertilizing-cartridge. A. J. Averell. No. 125,386; May 20; v. 262; p. 473.
- Fiber-board. Rogers Fibre Company. No. 125,168; Apr. 15; v. 261; p. 626.
- Files and rasps. The Rex File Company. No. 126,958; Oct. 14; v. 267; p. 336.
- Files and rasps. The Rex File Co. No. 127,486; Nov. 11; v. 268; p. 374.
- Files, New and recut. Continental File Corporation. No. 126,402; Aug. 26; v. 265; p. 627.
- Filling for pies, puddings, and desserts. Wolverine Spice Company. No. 127,166; Oct. 21; v. 267; p. 483.
- Films for dental X-ray work. A. W. Buck. No. 126,999; Oct. 21; v. 267; p. 477.
- Filters. Pulper Pottery Company. No. 124,450; Feb. 18; v. 259; p. 571.
- Fire-engines, water-towers, &c. American La France Fire Engine Co. No. 125,861; June 24; v. 263; p. 631.
- Fire-extinguisher. Chemical. J. S. Fairbanks. No. 127,828; Dec. 9; v. 269; p. 387.
- Fire-extinguishers, &c. D. S. Gooding. No. 127,047; Oct. 21; v. 267; p. 479.
- Fire-extinguishers. The F-R-X Manufacturing Company. No. 126,537; Sept. 16; v. 266; p. 446.
- Fire-extinguishers, Chemical. The Pyrofoam Company. No. 124,336; Feb. 4; v. 259; p. 179.
- Fire-extinguishers, Portable. Pyrene Manufacturing Company. No. 124,335; Feb. 4; v. 259; p. 178.
- Fire-extinguishing compounds. Foamite Firefoam Company. No. 127,741; Dec. 2; v. 269; p. 186.
- Firearms, Disks for use in sighting or aiming. S. Tousey. No. 127,159; Oct. 21; v. 267; p. 482.
- Fireproof garments. R. L. Bosselman. No. 128,016; Dec. 23; v. 269; p. 695.
- Fish. Davis Bros. Fisheries. No. 125,287; May 6; v. 262; p. 165.
- Fish. Davis Bros. Fisheries. No. 125,332; May 13; v. 262; p. 309.
- Fish. Davis Bros. Fisheries. No. 125,626; June 3; v. 263; p. 161.
- Fish-bait. J. J. Jenkins. No. 124,250; Jan. 28; v. 258; p. 810.
- Fish-bait. The John J. Hildebrandt Co. No. 127,190; Oct. 21; v. 267; p. 483.
- Fish, fruits, and vegetables, Canned. California Evaporated Products Co. No. 127,720; Dec. 2; v. 269; p. 185.
- Fish-lines and minnow-seines. Simmons Hardware Company. No. 127,135; Oct. 21; v. 267; p. 482.
- Fishhooks. Simmons Hardware Company. No. 127,510; Nov. 11; v. 268; p. 375.
- Fishing-rods. Fred D. Divine Co. No. 127,920; Dec. 16; v. 269; p. 541.
- Flag-covers. J. H. Brewer. No. 124,505; Feb. 25; v. 259; p. 771.
- Flags. John C. Dettra & Company. No. 124,691; Mar. 11; v. 260; p. 386.
- Flags. John C. Dettra & Company. No. 125,628; June 3; v. 263; p. 161.
- Flags, Manufactured. Annin & Co. Nos. 124,072-4; Jan. 14; v. 258; p. 443.
- Flags, Manufactured. Annin & Co. No. 124,360; Feb. 11; v. 259; p. 379.
- Flannel piece goods. E. McConnell & Co. No. 127,240; Oct. 28; v. 267; p. 644.
- Flannels in the piece. James N. Williamson & Sons Co. No. 125,550; May 20; v. 262; p. 478.
- Flavoring compounds. Joseph Burnett Company. No. 125,614; June 3; v. 263; p. 161.
- Flavoring extracts and gelatin. Food. Nectola Food Products Co. No. 126,730; Sept. 30; v. 266; p. 736.
- Flavoring extracts and powders. Vanilla. Henry H. Ottens Mfg Co. No. 125,669; June 3; v. 263; p. 163.
- Flavoring extracts, Food. Pabst Pure Extract Co. No. 126,056; July 22; v. 264; p. 698.
- Flavoring extracts, Food. Warner-Jenkinson Manufacturing Company. No. 124,352; Feb. 4; v. 259; p. 179.
- Flavoring extracts for soft drinks, &c. McCormick & Co. No. 125,154; Apr. 15; v. 261; p. 626.
- Flavorings, Food. Niagara Chemical Works. No. 127,856; Dec. 9; v. 269; p. 388.
- Floor-coverings. Congoleum Company. No. 125,981; July 22; v. 264; p. 696.
- Floor-coverings, Prepared. Congoleum Company. No. 125,980; July 22; v. 264; p. 696.
- Floor-coverings, Prepared. Congoleum Company. No. 126,264; Aug. 19; v. 265; p. 452.
- Floor-dressings. Frederick Disinfectant Company. No. 128,066; Dec. 23; v. 269; p. 697.
- Floorings or gratings, Metal. Irving Iron Works Company. No. 125,816; June 17; v. 263; p. 478.
- Florists' letters, emblems, and decorations. Koral Manufacturing Company. No. 127,568; Nov. 11; v. 268; p. 377.
- Flour blend, Rye and wheat. Shane Bros. & Wilson Co. No. 124,589; Feb. 25; v. 259; p. 773.
- Flour, Buckwheat. C. A. Gambrell. Manf'g Company. No. 126,284; Aug. 19; v. 265; p. 452.
- Flour, Corn. American Hominy Company. No. 124,435; Feb. 18; v. 259; p. 571.
- Flour-milling machinery. Sano Milling and Manufacturing Co. No. 126,773; Sept. 30; v. 266; p. 737.
- Flour, Potato. California Packing Corporation. No. 124,819; Mar. 18; v. 260; p. 555.
- Flour, Rye. Lawrenceburg Roller Mills Co. No. 124,318; Feb. 4; v. 259; p. 178.
- Flour, Self-rising. Lawrenceburg Roller Mills Co. No. 126,443; Aug. 26; v. 265; p. 629.
- Flour, Self-rising. Seattle Grain Company. No. 126,898; Oct. 7; v. 267; p. 179.
- Flour, Self-rising. The Southwestern Milling Company. No. 124,593; Feb. 25; v. 259; p. 774.
- Flour, Self-rising. Southwestern Milling Company. No. 125,761; June 10; v. 263; p. 328.
- Flour, Self-rising pancake. C. A. Gambrell Manuf'g Company. No. 125,872; June 24; v. 263; p. 631.
- Flour, Self-rising wheat. Bernet, Craft & Kauffman Milling Co. No. 128,222; Dec. 30; v. 269; p. 881.
- Flour, Self-rising wheat. The Kramer-Fair Milling Co. No. 124,460; Feb. 18; v. 259; p. 572.
- Flour, Wheat. American Flour Corporation. Nos. 127,259-60; Nov. 4; v. 268; p. 187.
- Flour, Wheat. American Flour Corporation. Nos. 127,308-9; Nov. 11; v. 268; p. 369.
- Flour, Wheat. The Chapman Milling Co. No. 124,956; Apr. 1; v. 261; p. 197.
- Flour, Wheat. Chippewa Milling Company. No. 126,261; Aug. 19; v. 265; p. 451.
- Flour, Wheat. Colorado Milling & Elevator Co. No. 124,682; Mar. 11; v. 260; p. 386.
- Flour, Wheat. Commander Mill Co. No. 127,269; Nov. 4; v. 268; p. 187.
- Flour, Wheat. The Commercial Milling Co. No. 125,562; May 27; v. 262; p. 643.
- Flour, Wheat. Consolidated Flour Mills Company. No. 124,086; Jan. 14; v. 258; p. 443.
- Flour, Wheat. Ellis Grove Milling Company. No. 127,384; Nov. 11; v. 268; p. 371.
- Flour, Wheat. Ellis Grove Milling Company. No. 127,605; Nov. 18; v. 268; p. 558.
- Flour, Wheat. Empire Milling Company. No. 124,836; Mar. 18; v. 260; p. 555.
- Flour, Wheat. Enid Milling Company. No. 124,926; Mar. 25; v. 260; p. 729.
- Flour, Wheat. Fisher Flouring Mills Company. No. 127,610; Nov. 18; v. 268; p. 558.
- Flour, Wheat. Goerz Flour Mills Co. Nos. 124,452-3; Feb. 18; v. 259; p. 571.
- Flour, Wheat. Goerz Flour Mills Co. No. 125,572; May 27; v. 262; p. 643.
- Flour, Wheat. L. Gross. No. 124,113; Jan. 14; v. 258; p. 444.
- Flour, Wheat. Halstead Milling & Elevator Co. No. 124,097; Jan. 14; v. 258; p. 444.
- Flour, Wheat. F. H. Hartman. No. 125,645; June 3; v. 263; p. 162.
- Flour, Wheat. Hecker-Jones-Jewell Company. No. 124,197; Jan. 21; v. 258; p. 641.
- Flour, Wheat. Holley Milling Company. No. 125,653; June 3; v. 263; p. 162.
- Flour, Wheat. Holley Milling Company. No. 128,086; Dec. 23; v. 269; p. 697.
- Flour, Wheat. Holmes and Barnes. No. 127,058; Oct. 21; v. 267; p. 479.
- Flour, Wheat. Holt & Company. No. 124,308; Feb. 4; v. 259; p. 178.
- Flour, Wheat. Holt & Company. No. 125,055; Apr. 8; v. 261; p. 406.
- Flour, Wheat. La Grange Mills. No. 124,461; Feb. 18; v. 259; p. 572.
- Flour, Wheat. Lake of the Woods Milling Company. No. 127,074; Oct. 21; v. 267; p. 480.
- Flour, Wheat. Le Grange Mills. No. 127,073; Oct. 21; v. 267; p. 480.
- Flour, Wheat. J. F. Lennon. No. 127,962; Dec. 16; v. 269; p. 542.
- Flour, Wheat. Lewiston Milling Co. No. 125,348; May 13; v. 262; p. 309.
- Flour, Wheat. The Loudonville Mill & Grain Co. No. 127,196; Oct. 21; v. 267; p. 483.
- Flour, Wheat. Macauley Fien Milling Co. No. 128,115; Dec. 23; v. 269; p. 698.
- Flour, Wheat. Mammoth Spring Milling Company. No. 125,706; June 3; v. 263; p. 164.
- Flour, Wheat. Marshall Milling Co. No. 127,287; Nov. 4; v. 268; p. 188.
- Flour, Wheat. McDaniel Milling Co. No. 125,235; Apr. 22; v. 261; p. 796.
- Flour, Wheat. Ottawa Milling Company. No. 125,876; Apr. 24; v. 263; p. 631.
- Flour, Wheat. Ottawa Milling Company. No. 126,331; Aug. 19; v. 265; p. 454.

- Flour, Wheat. Pillsbury Flour Mills Company. No. 126,336; Aug. 19; v. 265; p. 454.
- Flour, Wheat. Reno Flour Mills Company. No. 128,257; Dec. 30; v. 269; p. 882.
- Flour, Wheat. J. Rosenstein. No. 125,676; June 3; v. 263; p. 163.
- Flour, Wheat. J. Rosenstein. No. 127,296; Nov. 4; v. 268; p. 188.
- Flour, Wheat. Shane Bros. & Wilson Co. No. 124,768; Mar. 11; v. 260; p. 388.
- Flour, Wheat. Shane Bros. & Wilson Co. No. 126,210; July 29; v. 264; p. 861.
- Flour, Wheat. E. J. Sherwood. No. 124,475; Feb. 18; v. 259; p. 572.
- Flour, Wheat. Southern Sales Corporation. No. 127,297; Nov. 4; v. 268; p. 188.
- Flour, Wheat. Sperry Flour Company. No. 124,940; Mar. 25; v. 260; p. 729.
- Flour, Wheat. W. P. Tanner-Gross & Company. Nos. 124,479-84; Feb. 18; v. 259; p. 572.
- Flour, Wheat. W. P. Tanner-Gross & Company. No. 125,370; May 13; v. 262; p. 310.
- Flour, Wheat. Texas Star Flour Mills. No. 125,538; May 20; v. 262; p. 478.
- Flour, Wheat. Warner, Moore & Co. No. 124,908; Mar. 18; v. 260; p. 558.
- Flour, Wheat. The Warrensburg Mills. No. 124,909; Mar. 18; v. 260; p. 558.
- Flour, Wheat. The Warrensburg Mills. No. 125,007; Apr. 1; v. 261; p. 199.
- Flour, Wheat. Washburn Crosby Co. Nos. 125,597-600; May 27; v. 262; p. 644.
- Flour, Wheat. Washburn Crosby Co. No. 125,690; June 3; v. 263; p. 163.
- Flour, Wheat. Washington Grain and Milling Co. No. 124,427; Feb. 11; v. 259; p. 381.
- Flour, Wheat. The Weber-Freeman Milling Co. No. 124,493; Feb. 18; v. 259; p. 573.
- Flour, Wheat, rye, and barley. Geo. C. Bagley Elevator Co. No. 124,363; Feb. 11; v. 259; p. 379.
- Flours, cornmeal, rolled oats, Wheat, &c. International Milling Company. No. 125,057; Apr. 8; v. 261; p. 406.
- Flours, cornmeal, wheat-middlings. Letherman-Gehman Company. No. 127,847; Dec. 9; v. 269; p. 388.
- Flours, Self-rising pancake and mixed. Ekenberg Company. No. 127,273; Nov. 4; v. 268; p. 187.
- Flours, Wheat and rye. Hecker-Jones-Jewell Milling Company. No. 125,341; May 13; v. 262; p. 309.
- Flue-cleaners. R. J. Montgomery. No. 124,326; Feb. 4; v. 259; p. 178.
- Fluid-gages and parts of same. Coats Machine Tool Company. No. 127,359; Nov. 11; v. 268; p. 370.
- Flutes, piccolos, guitars, violins, &c. Lyon & Healy. No. 124,557; Feb. 25; v. 259; p. 772.
- Fly-killers. United States Wire Mat Company. No. 124,607; Feb. 25; v. 259; p. 774.
- Fly-swatters. A. V. Martin. No. 125,875; June 24; v. 263; p. 631.
- Food, Breakfast. Wheat Meal Co. No. 125,008; Apr. 1; v. 261; p. 199.
- Food, Cattle. J. J. Badenoch Co. No. 124,440; Feb. 18; v. 259; p. 571.
- Food, Cereal breakfast. The Wheatena Company. No. 125,182; Apr. 15; v. 261; p. 627.
- Food-colors. National Anilin & Chemical Company. No. 127,769; Dec. 2; v. 269; p. 187.
- Food, Japanese. K. Nakamura. No. 125,667; June 3; v. 263; p. 163.
- Food, Poultry. Hyman & Ackerman. No. 126,019; July 22; v. 264; p. 697.
- Food, Preparation for making a beverage. Mil-Ko-Ko Company. No. 127,092; Oct. 21; v. 267; p. 480.
- Food prepared from milk. Concentrated albuminous. Casein, Limited. No. 127,722; Dec. 2; v. 269; p. 185.
- Food-preparing presses. Silver & Co. No. 125,521; May 20; v. 262; p. 477.
- Food product. Medicated. Virocacao Company. No. 126,367; Aug. 19; v. 265; p. 455.
- Food products. George R. Newell & Co. No. 127,458; Nov. 11; v. 268; p. 373.
- Food products, Dehydrated. Drying Systems. No. 127,603; Nov. 18; v. 268; p. 558.
- Food products in tins, glass, &c. R. B. Kingman. No. 126,304; Aug. 19; v. 265; p. 453.
- Food, Stock. Maritime Trading Corporation. No. 127,286; Nov. 4; v. 268; p. 187.
- Food, Stock. Syracuse Milling Company. No. 125,885; June 24; v. 263; p. 631.
- Food-tonic, Stock. International Stock Food Co. No. 125,453; May 20; v. 262; p. 475.
- Foods. H. D. Boddington. No. 127,996; Oct. 21; v. 267; p. 477.
- Foods. T. L. Carroll. No. 126,651; Sept. 30; v. 266; p. 734.
- Foods. William Cluff Company. No. 128,231; Dec. 30; v. 269; p. 881.
- Foods. L. J. Dubelbeiss. No. 128,236; Dec. 30; v. 269; p. 881.
- Foods. John Morrell & Co. No. 127,094; Oct. 21; v. 267; p. 480.
- Foods. O. W. Peirce Company. No. 128,149; Dec. 23; v. 269; p. 699.
- Foods. The W. T. Rawleigh Company. No. 128,256; Dec. 30; v. 269; p. 882.
- Foods. Sunical Packing Company. Nos. 128,267-8; Dec. 30; v. 269; p. 882.
- Foods and ingredients of foods, Certain named. Stevens & Howell. No. 125,530; May 20; v. 262; p. 477.
- Foods, Animal and stock. Red Wing Linseed Oil Company. No. 127,482; Nov. 11; v. 268; p. 374.
- Foods, Cereal breakfast. Postum Cereal Company. No. 126,338; Aug. 19; v. 265; p. 454.
- Foods, Certain named. Austin, Nichols & Co. No. 124,922; Mar. 25; v. 260; p. 729.
- Foods, Certain named. Austin, Nichols & Co., Inc. No. 125,893; July 8; v. 264; p. 349.
- Foods, Certain named. J. S. Brown Mercantile Co. No. 126,255; Aug. 19; v. 265; p. 451.
- Foods, Certain named. California Ripe Olive Co. No. 124,508; Feb. 25; v. 259; p. 771.
- Foods, Certain named. Castle Brothers. No. 124,189; Jan. 21; v. 258; p. 641.
- Foods, Certain named. Frank E. Davis Company. No. 125,625; June 3; v. 263; p. 161.
- Foods, Certain named. Ideal Marketeria Company. No. 125,655; June 3; v. 263; p. 162.
- Foods, Certain named. Jaburg Brothers. No. 124,931; Mar. 25; v. 260; p. 729.
- Foods, Certain named. H. A. Johnson Co. No. 125,657; June 3; v. 263; p. 162.
- Foods, Certain named. Francis H. Leggett & Co. No. 124,110; Jan. 14; v. 258; p. 444.
- Foods, Certain named. McCord-Brady Co. No. 124,124; Jan. 14; v. 258; p. 444.
- Foods, Certain named. G. W. Pell. No. 125,877; June 24; v. 263; p. 631.
- Foods, Certain named. Philadelphia Buffet. No. 124,507; Feb. 25; v. 259; p. 771.
- Foods, Certain named. Price-Booker Manufacturing Co. No. 126,232; Aug. 12; v. 265; p. 301.
- Foods, Certain named. Rath Packing Company. No. 124,339; Feb. 4; v. 259; p. 179.
- Foods, Certain named. Thermopect Products Corporation. No. 125,920; July 8; v. 264; p. 350.
- Foot-arch supports. A. E. Block. No. 127,901; Dec. 16; v. 269; p. 541.
- Foot-cover, Certain named. M. Blösvoren. No. 125,395; May 20; v. 262; p. 473.
- Foot deformities, Appliances for correcting. Wizard Foot Appliance Company. No. 125,320; May 6; v. 262; p. 166.
- Foot-powder. The Consolidated Pharmaceutical Laboratories. No. 126,929; Oct. 14; v. 267; p. 335.
- Foot-powder. MacMillan Chemical Co. No. 125,350; May 13; v. 262; p. 310.
- Foot-warmers, Electric. Merit Electric Mfg. Co. No. 124,751; Mar. 11; v. 260; p. 388.
- Fruit and vegetable compound. R. Zieve. No. 127,802; Dec. 2; v. 269; p. 188.
- Fruit, Fresh. T. F. Nevins. No. 127,772; Dec. 2; v. 269; p. 187.
- Fruits and raisins, Dried. California Packing Corporation. No. 128,227; Dec. 30; v. 269; p. 881.
- Fruits and vegetables, Dried, fresh, and canned. S. Rosenblum. No. 124,881; Mar. 18; v. 260; p. 557.
- Fruits and vegetables, Evaporated. Wittenberg-King Company. No. 127,897; Dec. 9; v. 269; p. 390.
- Fruits, Fresh. Cashmere Apple Co. No. 127,723; Dec. 2; v. 269; p. 185.
- Fruits, Fresh. Consumers Fruit Company of America. No. 125,866; June 24; v. 263; p. 631.
- Fruits, Fresh. F. H. Wilson. No. 128,273; Dec. 30; v. 269; p. 882.
- Fruits, Fresh citrus. Anaheim Orange & Lemon Association. Nos. 126,982-3; Oct. 21; v. 267; p. 477.
- Fruits, Fresh citrus. Anaheim Orange & Lemon Association. No. 127,262; Nov. 4; v. 268; p. 187.
- Fruits, Fresh citrus. Bryn Mawr Fruit-Growers Association. No. 125,615; June 3; v. 263; p. 161.
- Fruits, Fresh citrus. East Whittier Citrus Ass'n. Nos. 126,671-2; Sept. 30; v. 266; p. 734.
- Fruits, Fresh citrus. East Whittier Citrus Ass'n. No. 127,604; Nov. 18; v. 268; p. 558.
- Fruits, Fresh citrus. East Whittier Citrus Ass'n. No. 128,229; Dec. 30; v. 269; p. 881.
- Fruits, Fresh citrus. Lee & Edwards. No. 125,065; Apr. 8; v. 261; p. 406.
- Fruits, Fresh citrus. Oxnard Citrus Ass'n. No. 126,738; Sept. 30; v. 266; p. 736.
- Fruits, Fresh citrus. B. G. Rooke. No. 128,261; Dec. 30; v. 269; p. 882.
- Fruits, Fresh citrus. Tapo Citrus Ass'n. No. 127,887; Dec. 9; v. 269; p. 389.
- Fruits, Fresh citrus. Valley View Ranch. No. 126,801; Sept. 30; v. 266; p. 738.
- Fruits, Fresh citrus. Whittier Citrus Association. Nos. 126,807-8; Sept. 30; v. 266; p. 739.
- Fuel containing charcoal as a base. Dry. Tanlex Corporation. No. 126,095; July 22; v. 264; p. 699.
- Fuel, Liquid. L. Clement. No. 126,658; Sept. 30; v. 266; p. 734.
- Fuel, Motor. Pittsburgh By-Product Coke Company. No. 126,465; Aug. 26; v. 265; p. 629.



*Alphabetical list of trade-marks—Continued.*

- Fungicides and horticultural insecticides. Toledo Rex Spray Co. No. 127,794; Dec. 2; v. 269; p. 187.
- Fur coats, wraps, &c. A. H. Vogel & Co. No. 124,802; Mar. 11; v. 260; p. 389.
- Fur-skins. L. Teitelbaum. No. 124,349; Feb. 4; v. 259; p. 179.
- Furs. O. E. Albrecht. No. 127,306; Nov. 11; v. 268; p. 369.
- Furs, dressed and dyed. B. J. Goodman. No. 125,903; July 8; v. 264; p. 249.
- Furnace-pipes, Tin. F. Meyer & Bro. Co. No. 125,353; May 13; v. 262; p. 310.
- Furniture. S. Karpen & Bros. No. 126,299; Aug. 19; v. 265; p. 453.
- Furniture and automobile polish. W. A. Pratt. No. 126,752; Sept. 30; v. 266; p. 737.
- Furniture and house-furnishings. M. H. Greenberg. No. 125,808; June 17; v. 263; p. 478.
- Furniture and upholstery. Certain named. O. W. Richardson & Company. No. 125,511; May 20; v. 262; p. 477.
- Furniture. Certain articles of. Keith-O'Brien Company. No. 126,300; Aug. 19; v. 265; p. 453.
- Furniture. Certain named. Northern Furniture Company. No. 126,327; Aug. 19; v. 265; p. 451.
- Furniture. Certain named. J. K. Porter. No. 126,570; Sept. 16; v. 266; p. 447.
- Furniture-polish. J. Mayhood. No. 128,124; Dec. 23; v. 269; p. 698.
- Furniture-polish. Thompson Piano Manufacturing Co. No. 126,792; Sept. 30; v. 266; p. 738.
- Furniture-polish. Vanderpan Brothers. No. 126,366; Aug. 19; v. 265; p. 455.
- Furniture, &c., polish. W. J. Bienemann. No. 128,007; Dec. 23; v. 269; p. 695.
- Furniture, &c., polish. S. T. Bowen. No. 126,256; Aug. 19; v. 265; p. 451.
- Furniture, woodwork, and automobile polish. A. W. Marcks. No. 124,322; Feb. 4; v. 259; p. 178.
- Gage-glasses. Schaeffer and Rudenberg Mfg. Co. No. 126,206; July 29; v. 264; p. 861.
- Gages, Pressure. National Gauge & Equipment Company. No. 127,455; Nov. 11; v. 268; p. 373.
- Gages, Thread. West & Dodge Company. No. 127,547; Nov. 11; v. 268; p. 376.
- Gaiters or spats. A. Priesmeyer Shoe Company. No. 126,001; July 22; v. 264; p. 698.
- Game-board. C. W. Kennard. No. 127,563; Nov. 11; v. 268; p. 377.
- Game-board and pieces to be used therewith. A. McPhaden. No. 127,082; Oct. 21; v. 267; p. 480.
- Game-boards. J. H. Krailing. No. 126,554; Sept. 16; v. 266; p. 446.
- Game-boards and pieces therefor. G. H. Parker. No. 125,246; Apr. 22; v. 261; p. 796.
- Game-boards and pieces therefor. G. H. Parker. No. 125,834; June 17; v. 263; p. 478.
- Games. McLoughlin Brothers, Incorporated. No. 126,183; July 29; v. 264; p. 861.
- Games and toys. Multikraft Incorporated. No. 124,129; Jan. 14; v. 258; p. 445.
- Games, Board. B. H. Davis. No. 128,041; Dec. 23; v. 269; p. 696.
- Games, Educational. G. E. Startup. No. 127,144; Oct. 21; v. 267; p. 482.
- Games, Military. Parker Brothers. No. 124,205; Jan. 21; v. 258; p. 641.
- Garment. Schuykill Silk Mills, (now by change of name Vanity Fair Silk Mills.) No. 127,784; Dec. 2; v. 269; p. 187.
- Garments, Certain named women's. William Hollins & Company. Nos. 125,446-7; May 20; v. 262; p. 475.
- Garments, Children's outer. R. C. Adler. No. 128,212; Dec. 23; v. 269; p. 701.
- Garments, Electric. William F. Caddock. No. 126,267; Aug. 19; v. 265; p. 452.
- Garments for children. Certain named. Mrs. B. Dexter. No. 124,822; Mar. 18; v. 260; p. 555.
- Garments for men, women, boys, and youths, One-piece outer. Michigan Motor Garment Co. No. 124,258; Jan. 28; v. 258; p. 810.
- Garments, Ladies' and misses' outer. J. A. Migel, Inc. No. 125,078; Apr. 8; v. 261; p. 407.
- Garments, Ladies' and misses' outer. J. A. Migel, Inc. No. 125,470; May 20; v. 262; p. 475.
- Garments, Ladies' outer. L. Marcus. No. 127,441; Nov. 11; v. 268; p. 373.
- Garments, Ladies' outer. Peck & Co. No. 127,473; Nov. 11; v. 268; p. 374.
- Garments, Men's and boys' outer. Franklin Clothing Mfg. Co. No. 127,398; Nov. 11; v. 268; p. 372.
- Garments, Reinforcing-shapes for. E. H. W. Baden. No. 127,318; Nov. 11; v. 268; p. 369.
- Garments, Workmen's. H. N. Clarke. No. 125,269; Apr. 29; v. 261; p. 953.
- Garters and hose-supporters. American Textile Products Company. No. 125,891; July 8; v. 264; p. 349.
- Garters, Men's. J. Hoban. No. 124,720; Mar. 11; v. 260; p. 387.
- Gas-generators and generator-cartridges. The Thermalene Company. No. 125,682; June 3; v. 263; p. 163.
- Gas mantles and lamps. Welsbach Company. No. 125,696; June 3; v. 263; p. 163.
- Gases, Compressed. Air Reduction Company. No. 125,118; Apr. 15; v. 261; p. 625.
- Gases, Medicinal. King Chemical Company. No. 126,303; Aug. 19; v. 265; p. 453.
- Gasolene. G. T. Wofford Oil Co. No. 124,431; Feb. 11; v. 259; p. 381.
- Gasolene intensifier and vigorizer. L. J. Benke. No. 124,502; Feb. 25; v. 259; p. 771.
- Gasolene, naphtha, benzine. The Texas Company. No. 125,258; Apr. 22; v. 261; p. 797.
- Gasolene-saving material for automobiles. C. S. Simpkins. No. 126,901; Oct. 7; v. 267; p. 179.
- Gauze, Sanitary absorbent. Lamborn & Co. No. 126,556; Sept. 16; v. 266; p. 446.
- Gears. Van Dorn & Dutton Company. No. 126,612; Sept. 23; v. 266; p. 593.
- Gears, quadruple shear-yoke, &c., Radial draft and friction draft. National Malleable Castings Company. No. 124,259; Jan. 28; v. 258; p. 810.
- Germicide. M. Reiman. No. 127,781; Dec. 2; v. 269; p. 187.
- Germicide solution. C. A. Weeks. No. 127,701; Nov. 18; v. 268; p. 561.
- Ginger-ale. Adam-Christian Co. No. 127,172; Oct. 21; v. 267; p. 483.
- Ginger-ale, root-beer, cider, and grape-fruit. Western Grocer Company. No. 126,805; Sept. 30; v. 266; p. 738.
- Gingham in the piece. York Mfg. Co. No. 125,010; Apr. 1; v. 261; p. 199.
- Glass articles, Cut. Crystolene Cut Glass Company. No. 127,368; Nov. 11; v. 268; p. 371.
- Glass bottles. Carr-Lowrey Glass Company. No. 124,188; Jan. 21; v. 258; p. 641.
- Glass globes and reflectors. Holophane Glass Co. No. 126,599; Sept. 23; v. 266; p. 593.
- Glass globes, shades, &c. Macbeth-Evans Glass Company. No. 124,398; Feb. 11; v. 259; p. 380.
- Glass, Sheet or window. The Dwelle-Kaiser Co. Nos. 126,526-7; Sept. 16; v. 266; p. 445.
- Glass slides in microscopic work. E. Leitz, Inc. No. 125,823; June 17; v. 263; p. 478.
- Glassware. Tiffany Furnaces. No. 128,187; Dec. 23; v. 269; p. 700.
- Glazing compounds and cements. The Garland Co. No. 127,944; Dec. 16; v. 269; p. 542.
- Gloves. L. Goldsmit, Bro. & Co. No. 124,454; Feb. 18; v. 259; p. 571.
- Gloves. Helburn Thompson Company. No. 127,413; Nov. 11; v. 268; p. 372.
- Gloves. Rey-Jouvin Freres & Cie. No. 127,487; Nov. 11; v. 268; p. 374.
- Gloves and mittens. Wells-Lamont Manufacturing Company. No. 124,275; Jan. 28; v. 258; p. 811.
- Gloves, Fabric. Crown Glove Company. No. 125,271; Apr. 29; v. 261; p. 953.
- Gloves, Fabric. Julius Kayser & Co. No. 127,562; Nov. 11; v. 268; p. 377.
- Gloves, Fabric. The Leavengood Glove & Garment Co. No. 127,430; Nov. 11; v. 268; p. 373.
- Gloves, Knit and leather. P. Centemeri & Company. No. 125,030; Apr. 8; v. 261; p. 405.
- Glue. Rosin & Co. No. 126,070; July 22; v. 264; p. 698.
- Glue for use in binding books. Semisolid pad-. D. H. Donegan. No. 124,231; Jan. 28; v. 258; p. 809.
- Golf-balls. The Worthington Ball Company. No. 127,168; Oct. 21; v. 267; p. 483.
- Golf-balls. Worthington & Raymond. No. 127,167; Oct. 21; v. 267; p. 483.
- Grain cleaners and separators. J. L. Owens Company. No. 126,460; Aug. 26; v. 265; p. 629.
- Grain cleaners and separators. J. L. Owens Company. No. 126,604; Sept. 23; v. 266; p. 593.
- Grape and apple juices, apple cider. The Paul De Laney Co. No. 127,373; Nov. 11; v. 268; p. 371.
- Grape-fruit juice. Collins Canning Company. No. 127,215; Oct. 28; v. 267; p. 643.
- Grape-juice. Concord Grape Juice Company. No. 125,286; May 6; v. 262; p. 165.
- Grape-juice. The Welch Grape Juice Company. No. 125,112; Apr. 8; v. 261; p. 408.
- Grape-juice, Non-alcoholic. Maurice R. Blackman. No. 126,248; Aug. 19; v. 265; p. 451.
- Grape-packing made of redwood sawdust, &c. Union Lumber Company. No. 127,523; Nov. 11; v. 268; p. 376.
- Grapes, peaches, &c., Fresh. The Pioneer Fruit Co. No. 126,750; Sept. 30; v. 266; p. 737.
- Grass, Sea-. L. R. Sire. No. 127,203; Oct. 21; v. 267; p. 484.
- Grease, Axle-. Fiske Brothers Refining Co. No. 124,449; Feb. 18; v. 259; p. 571.
- Grease, Launching-. Fiske Brothers Refining Co. No. 125,732; June 10; v. 263; p. 327.
- Grease, Launching-. Fiske Brothers Refining Co. No. 126,279; Aug. 19; v. 265; p. 452.
- Grease, Transmission and gear-case. Swan & Finch Co. No. 128,184; Dec. 23; v. 269; p. 700.
- Greases and oils, Lubricating. Monarch Manufacturing Company. No. 126,318; Aug. 19; v. 265; p. 453.

- Grinding and polishing wheels. Superior Corundum Wheel Company. Nos. 124,598-9; Feb. 25; v. 259; p. 774.
- Grindstone-disks, oilstones, &c. Shapleigh Hardware Company. No. 125,519; May 20; v. 262; p. 477.
- Gum and chewing-gum covered with candy, Chewing-Frank H. Fleer Corporation. No. 125,047; Apr. 8; v. 261; p. 406.
- Gum, Chewing-. Goudey Gum Co. No. 125,737; June 10; v. 263; p. 327.
- Gum, Chewing-. R. L. Johnstone. No. 124,726; Mar. 11; v. 260; p. 387.
- Gum, Chewing-. Pulver Company, Inc. No. 126,754; Sept. 30; v. 266; p. 737.
- Gum, Chewing-. S. Zimetbaum. No. 125,011; Apr. 1; v. 261; p. 199.
- Gum, Medicated chewing-. Chic-Mint Gum Co. No. 128,198; Dec. 23; v. 269; p. 701.
- Gun-barrels, Chemical composition used to dissolve the residuum of smokeless powder from. B. Middleton. No. 126,881; Oct. 7; v. 267; p. 179.
- Hacksaw-blades. Goodell-Pratt Company. Nos. 127,836-7; Dec. 9; v. 269; p. 388.
- Hair and scalp, Preparation for. L. D. G. Newman. No. 127,773; Dec. 2; v. 269; p. 187.
- Hair and scalp, Preparations for treatment of. W. P. Saunders. No. 126,897; Oct. 7; v. 267; p. 179.
- Hair-cleansing preparation. V. L. Beauchamp. No. 127,714; Dec. 2; v. 269; p. 185.
- Hair-color restorer, depilatory, &c. Hessig-Ellis Drug Co. No. 125,811; June 17; v. 263; p. 478.
- Hair-coloring compounds. Chase-A-Gray French Co. No. 127,213; Oct. 28; v. 267; p. 643.
- Hair-cutters and safety-razors, Combination. T. Yeomans. No. 125,543; May 20; v. 262; p. 478.
- Hair-dressing. Idol Toilet Co. No. 127,064; Oct. 21; v. 267; p. 479.
- Hair-dressing. Morgan Drug Company of the City of Brooklyn. No. 127,768; Dec. 2; v. 269; p. 187.
- Hair-dressing. A. E. Sobers. No. 126,216; July 29; v. 264; p. 862.
- Hair-dressing. Treino Co. No. 127,795; Dec. 2; v. 269; p. 187.
- Hair-dressing, Antiseptic. W. Balzer. No. 124,077; Jan. 14; v. 258; p. 443.
- Hair-dye. L. Mottard. No. 127,643; Nov. 18; v. 268; p. 559.
- Hair-dyes. F. A. Gray. No. 124,710; Mar. 11; v. 260; p. 387.
- Hair-grower. A. Burriss. No. 127,003; Oct. 21; v. 267; p. 477.
- Hair-grower. C. M. Slavin. No. 125,252; Apr. 22; v. 261; p. 797.
- Hair-grower and pressing-oil. J. A. Sims. No. 126,482; Aug. 26; v. 265; p. 630.
- Hair-growing preparation. D. Franklin. No. 127,832; Dec. 9; v. 269; p. 388.
- Hair-nets. Hartman Bros. Incorporated. No. 128,080; Dec. 23; v. 269; p. 697.
- Hair-nets. E. T. Mittelstaedt. No. 126,453; Aug. 26; v. 265; p. 629.
- Hair-nets. Poirier and Lindeman Co. Nos. 127,981-2; Dec. 16; v. 269; p. 543.
- Hair-nets. Reichman & Faust. No. 127,984; Dec. 16; v. 269; p. 543.
- Hair-nets. Reichman & Faust. No. 128,158; Dec. 23; v. 269; p. 699.
- Hair-nets. A. A. West. No. 125,771; June 10; v. 263; p. 328.
- Hair nets, Sanitary human-. National Commodities Co. No. 127,972; Dec. 16; v. 269; p. 543.
- Hair-oil and tonics, pressing-oil. S. P. Vaughn. No. 126,971; Oct. 14; v. 267; p. 336.
- Hair-pads. E. T. Mittelstaedt. No. 128,135; Dec. 23; v. 269; p. 699.
- Hair-pins. Hump Hair Pin Mfg. Co. No. 125,452; May 20; v. 262; p. 475.
- Hair-pins. Samstag & Hilder Bros. No. 126,203; July 29; v. 264; p. 861.
- Hair, Preparation for treatment of the. S. Goines. No. 124,304; Feb. 4; v. 259; p. 177.
- Hair preparations and tonics. S. E. Abernathy. No. 127,304; Nov. 11; v. 268; p. 369.
- Hair-restorative. Kansas City Medicine Co. No. 127,630; Nov. 18; v. 268; p. 558.
- Hair-restorer. Flitz-Water and Moore. No. 125,046; Apr. 8; v. 261; p. 406.
- Hair shampoo and tonic. E. G. Duncan. No. 124,825; Mar. 18; v. 260; p. 555.
- Hair-shampooing preparation. E. O. Heinrich. No. 125,704; June 3; v. 263; p. 164.
- Hair-stain. E. C. O'Brien. No. 124,759; Mar. 11; v. 260; p. 388.
- Hair switches, wigs, &c. A. Bianchi. No. 124,664; Mar. 11; v. 260; p. 385.
- Hair-tonic. J. C. Ayer Co. No. 126,385; Aug. 26; v. 265; p. 627.
- Hair-tonic. M. Commins. No. 125,723; June 10; v. 263; p. 327.
- Hair-tonic. E. Dixon. No. 126,667; Sept. 30; v. 266; p. 734.
- Hair-tonic. G. Dolcibella. No. 127,601; Nov. 18; v. 268; p. 558.
- Hair-tonic. Hays Manufacturing Co. No. 126,430; Aug. 26; v. 265; p. 628.
- Hair-tonic. G. K. Katzfey. No. 124,393; Feb. 11; v. 259; p. 380.
- Hair-tonic. Mangan & Co. No. 126,717; Sept. 30; v. 266; p. 736.
- Hair-tonic. Marie Aceto & Co. No. 127,305; Nov. 11; v. 268; p. 369.
- Hair-tonic. G. Mavrogianopoulos. No. 126,718; Sept. 30; v. 266; p. 736.
- Hair-tonic. H. Sidery. No. 127,201; Oct. 21; v. 267; p. 484.
- Hair-tonic. C. E. Smith. No. 127,790; Dec. 2; v. 269; p. 187.
- Hair-tonic. M. M. Wood. No. 125,551; May 20; v. 262; p. 478.
- Hair tonic and stimulant. The Maori-Of Manufacturing Company. No. 124,560; Feb. 25; v. 259; p. 773.
- Hair-tonic preparation. Calinia Hair Restorative Company. No. 126,394; Aug. 26; v. 265; p. 627.
- Hair-tonics. M. Seader. No. 127,682; Nov. 18; v. 268; p. 560.
- Hair-tonics. Madam A. White. No. 127,704; Nov. 18; v. 268; p. 561.
- Hair-tonics, &c. C. Crockett. No. 126,405; Aug. 26; v. 265; p. 628.
- Hair wavers or curlers. Joseph W. Schloss Co. No. 125,915; July 8; v. 264; p. 349.
- Ham, bacon, skinned and boiled hams, picnic, boiled picnics, &c. Kohrs Packing Company. Nos. 124,394-5; Feb. 11; v. 259; p. 380.
- Ham, boiled ham, bacon. Morris & Company. No. 128,249; Dec. 30; v. 269; p. 881.
- Hams, bacon, shoulders. Swift and Company. No. 125,534; May 20; v. 262; p. 477.
- Hammer attachments, Pneumatic. Liberty Tool Company. No. 128,107; Dec. 23; v. 269; p. 698.
- Hammers, Pneumatic riveting-. Chicago Pneumatic Tool Company. Nos. 125,618-19; June 3; v. 263; p. 161.
- Hammers, Pneumatic riveting-. Chicago Pneumatic Tool Company. No. 125,621; June 3; v. 263; p. 161.
- Hammock fabrics, Woven. The I. E. Palmer Co. No. 124,986; Apr. 1; v. 261; p. 198.
- Hamper or basket, Clothes. C. A. Wellman. No. 124,626; Feb. 25; v. 259; p. 775.
- Handkerchiefs. I. C. Herman. No. 128,083; Dec. 23; v. 269; p. 697.
- Handkerchiefs. James R. Keiser, Inc. No. 127,960; Dec. 16; v. 269; p. 542.
- Handkerchiefs. Loeb & Schoenfeld Company. No. 128,111; Dec. 23; v. 269; p. 698.
- Handkerchiefs. Mills & Gibb Corporation. No. 126,561; Sept. 16; v. 266; p. 446.
- Handkerchiefs. M. E. Smith & Co. No. 126,902; Oct. 7; v. 267; p. 179.
- Handles, escutcheons, &c., Drawer and furniture. Foster, Merriam & Company. No. 128,065; Dec. 23; v. 269; p. 697.
- Hardware and plumbing and steam-fitting supplies. The British Mannesmann Tube Company. No. 124,954; Apr. 1; v. 261; p. 197.
- Hardware and plumbing and steam-fitting supplies. The Celluloid Company. No. 126,516; Sept. 16; v. 266; p. 445.
- Hardware and plumbing and steam-fitting supplies. Utility Manufacturing Company. No. 126,799; Sept. 30; v. 266; p. 738.
- Hardware and plumbing and steam-fitting supplies. Yarnall-Waring Company. No. 126,809; Sept. 30; v. 266; p. 739.
- Hardware and plumbing and steam-fitting supplies. Yarnall-Waring Company. No. 126,976; Oct. 14; v. 267; p. 337.
- Hardware and plumbing and steam-fitting supplies. Certain named. American Chain Company. No. 124,278; Feb. 4; v. 259; p. 177.
- Hardware and plumbing and steam-fitting supplies. Certain named. W. Suckling & Sons. No. 124,596; Feb. 25; v. 259; p. 774.
- Hardware and plumbing supplies. Pacific Sanitary Manufacturing Company. No. 126,739; Sept. 30; v. 266; p. 736.
- Hardware and plumbing, &c., supplies. Celluloid Company. No. 126,654; Sept. 30; v. 266; p. 734.
- Hardware, &c., Certain named. Interstate Iron & Steel Co. No. 124,971; Apr. 1; v. 261; p. 197.
- Harmonicas, Mouth-. Strauss Bros. & Co. Nos. 127,690-1; Nov. 18; v. 268; p. 560.
- Harness-rosettes, &c., and luggage-tags made of pyroxylin. Celluloid Company. No. 125,976; July 22; v. 264; p. 696.
- Harrows. Eclipse Manufacturing Co. No. 127,826; Dec. 9; v. 269; p. 387.
- Hats. Frank Katz Hat Co. No. 125,819; June 17; v. 263; p. 478.
- Hats. Harris-Polk Hat Co. No. 124,715; Mar. 11; v. 260; p. 387.
- Hats and caps. A. Lesser & Co. No. 125,067; Apr. 8; v. 261; p. 406.



## Alphabetical list of trade-marks—Continued.

- Hats, caps, hosiery, gloves, &c. T. C. Cullen. No. 126,836; Oct. 7; v. 267; p. 177.
- Hats, Children's. A. Mayer. No. 126,879; Oct. 7; v. 267; p. 179.
- Hats, Felt. A. M. Davis. No. 126,837; Oct. 7; v. 267; p. 177.
- Hats, Felt. A. M. Davis. No. 128,040; Dec. 23; v. 269; p. 696.
- Hats for men and boys. American Hat Mfg. Co. No. 126,818. Oct. 7; v. 267; p. 177.
- Hats for women and children. Bernhard Ulmann Co. No. 124,270; Jan. 28; v. 258; p. 811.
- Hats, Ladies'. J. Gitter Co. No. 126,424; Aug. 26; v. 265; p. 628.
- Hats, Ladies' and children's. Hyman, Meyer & Hyman. No. 125,273; Apr. 29; v. 261; p. 953.
- Hats, Ladies', misses', and children's. Crone Millinery Co. No. 126,835; Oct. 7; v. 267; p. 177.
- Hats, Ladies' trimmed. Odette Hat Company. No. 125,302; May 6; v. 262; p. 165.
- Hats, Ladies' trimmed and tailored. I. Moch. No. 127,450; Nov. 11; v. 268; p. 373.
- Hats, Men's. Knox Hat Company. No. 125,458; May 20; v. 262; p. 475.
- Hats, Men's. Rogers Peet Company. No. 125,840; June 17; v. 263; p. 479.
- Hats, Men's. Young Brothers. Nos. 126,115-16; July 22; v. 264; p. 700.
- Hats, Men's, women's, and children's. Frank Katz Hat Co. No. 126,437; Aug. 26; v. 265; p. 629.
- Hats, Women's. Chicago Mercantile Company. Nos. 126,827-8. Oct. 7; v. 267; p. 177.
- Hats, Women's. C. Levy. No. 127,434; Nov. 11; v. 268; p. 373.
- Hats, Women's. R. S. Stern Co. No. 124,265; Jan. 28; v. 258; p. 810.
- Hats, Women's and misses'. N. C. Smolin. No. 127,513; Nov. 11; v. 268; p. 375.
- Headlight lenses. Automobile. H. W. Sherrod. No. 126,607; Sept. 23; v. 266; p. 593.
- Headlight wire. Locomotive. Habirshaw Electric Cable Company. No. 126,164; July 29; v. 264; p. 860.
- Headwear, Infants' and children's. A. D. Katcher. No. 127,429; Nov. 11; v. 268; p. 373.
- Heart-stimulant. Intravenous Products Company. No. 127,749; Dec. 2; v. 269; p. 186.
- Heat and cold insulation materials. General Insulating & Manufacturing Company. No. 125,806; June 17; v. 263; p. 478.
- Heat-refractory products. Certain named. Norton Company. No. 125,082-3; Apr. 8; v. 261; p. 407.
- Heaters and heating-stoves. Water. Lawson Manufacturing Company. No. 125,660; June 3; v. 263; p. 162.
- Heaters and lamps in the form of a unitary article. Electric. A. Mecky Company. No. 124,324; Feb. 4; v. 259; p. 178.
- Heaters. Electric liquid-immersion. O'Connor Electric Company. No. 124,332; Feb. 4; v. 259; p. 178.
- Heating and lighting apparatus. Certain named. W. Suckling & Sons. No. 124,780; Mar. 11; v. 260; p. 389.
- Heating, lighting, and ventilating apparatus. Burnall Corporation. No. 127,001; Oct. 21; v. 267; p. 477.
- Heating systems. Return-line traps, &c. for steam. The Bishop & Babcock Company. No. 127,330; Nov. 11; v. 268; p. 369.
- Heels for leather boots and shoes. Metallic. W. Purnhagen. No. 127,668; Nov. 18; v. 268; p. 560.
- Herring. I. Moos. No. 125,242; Apr. 22; v. 261; p. 796.
- Hides for shoe-uppers. Tanned leather. Anchor Leather Company. No. 125,950; July 22; v. 264; p. 695.
- Hinges, screen-hangers, hasps, &c. The Stanley Works. No. 126,967; Oct. 14; v. 267; p. 336.
- Hog-cholera preparation. L. V. Kivett. No. 125,061; Apr. 8; v. 261; p. 406.
- Hog-cholera. Preparation for the treatment of. F. Auwerter. No. 124,659; Mar. 11; v. 260; p. 385.
- Hog medicine. K. Byington. No. 125,195; Apr. 22; v. 261; p. 795.
- Hog remedy. Wonder Chemical Company. No. 126,913; Oct. 7; v. 267; p. 180.
- Holders for fruit-jars while the contents are being cooked or sterilized. Handy Manufacturing Co. No. 124,242; Jan. 28; v. 258; p. 810.
- Hollow ware and tableware. Silver-plated. Middletown Silver Company. No. 126,040; July 22; v. 264; p. 698.
- Honey. The American Sugar Refining Company. No. 126,377; Aug. 26; v. 265; p. 627.
- Hooks and eyes, snap-fasteners, &c. De Long Hook and Eye Company. No. 127,375; Nov. 11; v. 268; p. 371.
- Horseshoe-nails. Simmons Hardware Company. No. 127,508; Nov. 11; v. 268; p. 375.
- Hose, Men's half. Ideal Hosiery Company. No. 127,421; Nov. 11; v. 268; p. 372.
- Hose, Rubber garden. Simmons Hardware Company. No. 128,170; Dec. 23; v. 269; p. 700.
- Hosiery. C. S. Andrews. Nos. 128,216-17; Dec. 23; v. 269; p. 701.
- Hosiery. B. G. Brumby. No. 128,021; Dec. 23; v. 269; p. 695.
- Hosiery. Butler Brothers. No. 125,285; May 6; v. 262; p. 165.
- Hosiery. Cannon Mills. No. 128,133; Dec. 23; v. 269; p. 699.
- Hosiery. Chest-Heur Stock Co. No. 125,977; July 22; v. 264; p. 696.
- Hosiery. Chipman Knitting Mills. No. 126,400; Aug. 26; v. 265; p. 627.
- Hosiery. Daum Rogers Spritzer Co. No. 127,372; Nov. 11; v. 268; p. 371.
- Hosiery. Elizabeth City Hosiery Co. Nos. 128,054-5; Dec. 23; v. 269; p. 696.
- Hosiery. Falls City Mills Co. No. 125,043; Apr. 8; v. 261; p. 406.
- Hosiery. Guiterman, Rosenfeld & Company. No. 125,434; May 20; v. 262; p. 474.
- Hosiery. Julius Kayser & Co. No. 124,548; Feb. 25; v. 259; p. 772.
- Hosiery. Julius Kayser & Co. No. 128,089; Dec. 23; v. 269; p. 697.
- Hosiery. Keet & Rountree Dry Goods Co. No. 125,295; May 6; v. 262; p. 165.
- Hosiery. Levi Strauss & Co. No. 124,267; Jan. 28; v. 258; p. 810.
- Hosiery. R. H. Macy & Co. No. 127,635; Nov. 18; v. 268; p. 559.
- Hosiery. Nick-A-Jack Hosiery Mills. No. 127,460; Nov. 11; v. 268; p. 373.
- Hosiery. Richmond Hosiery Mills. No. 127,488; Nov. 11; v. 268; p. 374.
- Hosiery. Richmond Hosiery Mills. No. 127,491; Nov. 11; v. 268; p. 374.
- Hosiery. Rogers Peet Company. No. 125,513; May 20; v. 262; p. 477.
- Hosiery. G. Sommers & Co. No. 126,904; Oct. 7; v. 267; p. 179.
- Hosiery. Wm. B. Threapleton's Sons. No. 126,910; Oct. 7; v. 267; p. 179.
- Hosiery. A. V. Victorius & Co. No. 124,801; Mar. 11; v. 260; p. 389.
- Hosiery. A. V. Victorius & Co. No. 126,498; Aug. 26; v. 265; p. 631.
- Hosiery. C. A. Wanner. No. 124,904; Mar. 18; v. 260; p. 558.
- Hosiery. A. Weil. Nos. 127,543-4; Nov. 11; v. 268; p. 376.
- Hosiery. G. & A. Wise. No. 125,319; May 6; v. 262; p. 166.
- Hosiery and gloves. Finch, Van Slyck & McConville. No. 126,002; July 22; v. 264; p. 696.
- Hosiery and knitted underwear. Daisey Hosiery Mills. No. 127,369; Nov. 11; v. 268; p. 371.
- Hosiery and underwear. Mojo-Schey Co. No. 125,476; May 20; v. 262; p. 476.
- Hosiery, Infants'. Hickory Hosiery Mills. No. 124,719; Mar. 11; v. 260; p. 387.
- Hosiery, knitted underwear, shirts. Greenberg-Kantor Co. No. 126,851; Oct. 7; v. 267; p. 178.
- Hosiery, Ladies'. J. T. Conover. No. 125,982. July 22; v. 264; p. 696.
- Hosiery, Ladies'. Mathias Brothers. No. 126,877; Oct. 7; v. 267; p. 178.
- Hosiery, Men's. The Dormer Brothers Company. Nos. 127,378-9; Nov. 11; v. 268; p. 371.
- Hot-water bottles, fountain-syringes, &c. Mayflower Rubber Works Company. Nos. 126,947-8; Oct. 14; v. 267; p. 336.
- Hydrogen and oxygen gas. Burdett Oxygen Company. No. 126,134; July 29; v. 264; p. 859.
- Ice-cream. Chapin-Sacks Manufacturing Company. No. 125,126; Apr. 15; v. 261; p. 625.
- Ice-cream. Golden Rod Ice Cream Company. No. 127,743; Dec. 2; v. 269; p. 186.
- Ice-cream cones. Federal Biscuit Co. No. 127,275; Nov. 4; v. 268; p. 187.
- Ice-cream cones. Federal Biscuit Co. No. 128,237; Dec. 30; v. 269; p. 881.
- Ice-cream cones. Success Cone Company. No. 125,256; Apr. 22; v. 261; p. 797.
- Ice-cream cones and wafers. M. Goldberg. No. 125,642; June 3; v. 263; p. 162.
- Ice-cream freezers. Simmons Hardware Company. No. 126,347; Aug. 19; v. 265; p. 454.
- Ice-cream freezers. The White Mountain Freezer Company. No. 127,164; Oct. 21; v. 267; p. 482.
- Ice-cream. Paste and powder used in. H. D. Farquhar. No. 125,044; Apr. 8; v. 261; p. 406.
- Iceing for use as a food. American Sugar Refining Company. No. 126,237; Aug. 19; v. 265; p. 451.
- Ignition systems. Contact-points for circuit making and breaking devices of electrical. The K-W Ignition Company. No. 126,551; Sept. 16; v. 266; p. 446.
- Incense. Aromatic. Louis Lucas Company, Inc. No. 127,763; Dec. 2; v. 269; p. 186.
- Index-tabs. J. H. Rand Corp'n. No. 124,761; Mar. 11; v. 260; p. 388.
- Indigo. Society of Chemical Industry in Basle. No. 126,087; July 22; v. 264; p. 699.
- Ink in tablet form. P. L. M. Corporation. No. 126,059; July 22; v. 264; p. 698.
- Inks for stamp-inking pads, &c. Pomeroy Ink Manufacturing Co. No. 128,152; Dec. 23; v. 269; p. 699.
- Inks, type-writer ribbons, &c. E. F. Munday. No. 126,042; July 22; v. 264; p. 698.

- Inks, varnishes, &c. George H. Morrill Company. No. 124,123; Jan. 14; v. 258; p. 444.
- Insect-destroying composition. Commercial Chemical Co. No. 125,329; May 13; v. 262; p. 309.
- Insect exterminator and disinfectant. H. Deitchman. No. 125,204; Apr. 22; v. 261; p. 795.
- Insect-poison. Cole & Reed. No. 124,372; Feb. 11; v. 259; p. 379.
- Insecticide. T. Delikat. No. 126,409; Aug. 26; v. 265; p. 628.
- Insecticide. Valdosta Chemical Company. No. 125,596; May 27; v. 262; p. 644.
- Insecticide and disinfectant for live stock. Parsons Chemical Works. No. 126,334; Aug. 19; v. 265; p. 454.
- Insecticide used on plants, &c. Oshkosh Seed Co. No. 124,389; Feb. 11; v. 259; p. 380.
- Insecticides and fungicides. Leggett & Brother. No. 127,195; Oct. 21; v. 264; p. 483.
- Insecticides and fungicides. H. J. Smith. No. 126,783; Sept. 30; v. 266; p. 738.
- Insecticides and poisons for rodents and insect pests. Sleep-In-Peace Company. No. 126,085; July 22; v. 264; p. 699.
- Insecticides, disinfectants, germicides. Fawland Company. No. 127,229; Oct. 28; v. 267; p. 643.
- Insecticides, fungicides, disinfectants. Standard Chemical Co. No. 127,881; Dec. 9; v. 269; p. 389.
- Insoles for footwear. Burlington Blanket Company. No. 127,341; Nov. 11; v. 268; p. 370.
- Inspirator. J. B. Neuburger. No. 124,863; Mar. 18; v. 260; p. 556.
- Instruments, Scientific. Chicago Apparatus Company. No. 126,260; Aug. 19; v. 265; p. 451.
- Insulated electrical conductors. Marlin-Rockwell Corporation. No. 127,084; Oct. 21; v. 267; p. 480.
- Insulated wire. Atlantic Insulated Wire & Cable Company. No. 124,187; Jan. 21; v. 258; p. 641.
- Insulating material. Fibrous. Northern Insulating Company. No. 125,161; Apr. 15; v. 261; p. 626.
- Insulators, Electrical. Westinghouse Electric & Manufacturing Company. No. 126,588; Sept. 16; v. 266; p. 447.
- Intravenous injections. Lucas Laboratories. No. 126,447; Aug. 26; v. 265; p. 629.
- Invigorant. Non-alcoholic liquid. A. Paszkiewicz. No. 125,089; Apr. 8; v. 261; p. 407.
- Iodin preparation. O. F. Schmid Chemical Co. No. 124,417; Feb. 11; v. 259; p. 381.
- Iron and steel. Federal Tool & Alloy Steel Corporation. No. 125,730; June 10; v. 263; p. 327.
- Iron and steel. Swedish Iron & Steel Corporation. No. 124,348; Feb. 4; v. 259; p. 179.
- Iron and steel bars. Edgar T. Ward's Sons Company. No. 125,006; Apr. 1; v. 261; p. 199.
- Iron, Pipe. Brier Hill Steel Company. No. 126,998; Oct. 21; v. 267; p. 477.
- Iron-rust and stain removing cream. R. G. Sip. No. 124,771; Mar. 11; v. 260; p. 388.
- Ironing-machines. Apex Appliance Company. No. 125,119; Apr. 15; v. 261; p. 625.
- Jackets, Cardigan. Eskimo Knitting Mills. No. 124,837; Mar. 18; v. 260; p. 555.
- Jacks. Iron City Products Company. No. 127,422; Nov. 11; v. 268; p. 372.
- Jam, Grape. Welch Grape Juice Co. No. 124,353; Feb. 4; v. 259; p. 179.
- Jam, Jelly, fruit preserves, fruit butter, and conserves. The Welch Grape Juice Company. No. 127,545; Nov. 11; v. 268; p. 376.
- Jam or conserve. Welch Grape Juice Company. Nos. 126,108-9; July 22; v. 264; p. 700.
- Jams, Fruit. Kelley-Clarke Co. No. 124,105; Jan. 14; v. 258; p. 444.
- Jams or conserve. Welch Grape Juice Company. No. 125,944; July 15; v. 264; p. 531.
- Jar-rings. United States Rubber Company. No. 124,798; Mar. 11; v. 260; p. 389.
- Jellies and conserves. Old Virginia Orchard Co. No. 127,105; Oct. 21; v. 267; p. 481.
- Jellies and jellied desserts. Food Products Inc. No. 124,706; Mar. 11; v. 260; p. 386.
- Jelly-powders. Waukesha Pure Food Company. No. 125,692; June 3; v. 263; p. 163.
- Journal-box and coiled-spring journal-box for railway-vehicles. The National Malleable Castings Company. No. 124,981; Apr. 1; v. 261; p. 198.
- Journal, Trade. Atlas Publishing Co. No. 125,284; May 6; v. 262; p. 165.
- Journals, Monthly. Petroleum Publishing Company. No. 125,498; May 20; v. 262; p. 476.
- Junkets. Powders for making. J. B. Birks. No. 127,992; Oct. 21; v. 267; p. 477.
- Jute, hemp, hair, and wool piece goods, &c. Derryvale Linen Co. No. 125,417; May 20; v. 262; p. 474.
- Kid, Finished. Burns, Focht, Bicknell Co. No. 126,592; Sept. 23; v. 266; p. 593.
- Kit-containers for toilet articles. Heinrich, Herrmann & Weiss. No. 124,246; Jan. 28; v. 258; p. 810.
- Kits, Tourist. H. Scheuer & Sons. No. 125,515; May 20; v. 262; p. 477.
- Knit skirts, sweaters, slippers, spencers. D. W. Shoyer & Co. No. 125,311; May 6; v. 262; p. 166.
- Knit sweaters and underwear, mackinaws. Red River Woolen Mills. No. 125,090; Apr. 8; v. 261; p. 407.
- Knit undershirts, underdrawers, union-suits, undervests. Sanitary Knitting Company. No. 126,075; July 22; v. 264; p. 699.
- Knit underwear. Lackawanna Mills. No. 124,254; Jan. 28; v. 258; p. 810.
- Knit underwear and knitted clothing. Grand Rapids Dry Goods Company. No. 126,849; Oct. 7; v. 267; p. 178.
- Knitted and woven underwear, shirts, &c. Ligon, Hinckle & Co. No. 125,826; June 17; v. 263; p. 478.
- Knitted garments. W. Hall. No. 126,429; Aug. 26; v. 265; p. 628.
- Knitted hosiery, gloves, and mittens. Detroit Alaska Knitting Mills. No. 125,040; Apr. 8; v. 261; p. 406.
- Knitted, netted, and textile fabrics, Certain named. Smith McCord Townsend Dry Goods Co. No. 124,592; Feb. 25; v. 259; p. 774.
- Knitted, netted, and textile fabrics, Certain named. Dly & Walker D. G. Co. No. 124,962; Apr. 1; v. 261; p. 197.
- Knitted, netted, and textile underwear. Markovitz Bros. No. 125,278; Apr. 29; v. 261; p. 953.
- Knitted, netted, and textile underwear. Markovitz Bros. No. 126,180; July 29; v. 264; p. 861.
- Knitted sweaters, leggings, caps, &c. Simon Ascher & Co. No. 124,657; Mar. 11; v. 260; p. 385.
- Knitted sweaters, sweater-coats, and underwear. Hatheway & Reynolds. No. 128,082; Dec. 23; v. 269; p. 697.
- Knitted undershirts, drawers, and union-suits. Crossingham Knitting Mills. No. 127,367; Nov. 11; v. 268; p. 371.
- Knitted underwear. The Campe Corporation. No. 127,266; Nov. 4; v. 268; p. 187.
- Knitted underwear. The Campe Corporation. No. 127,346; Nov. 11; v. 268; p. 370.
- Knitted underwear. Progressive Knitting Mills. No. 126,889; Oct. 7; v. 267; p. 179.
- Knitting-machines. Jenckes Knitting Machine Co. No. 126,171; July 29; v. 264; p. 860.
- Knitting-needles. Flexible. F. L. Sessions. No. 124,767; Mar. 11; v. 260; p. 388.
- Knives. John Russell Cutlery Company. Nos. 126,765-71; Sept. 30; v. 266; p. 737.
- Knives, machetes, axes, &c. Cane and corn. Marburg Brothers. No. 126,876; Oct. 7; v. 267; p. 178.
- Knives of base metal, Table. International Silver Company. No. 126,939; Oct. 14; v. 267; p. 335.
- Knives, penholders, memorandum-tablets, Paper-Celluloid Company. No. 127,212; Oct. 28; v. 267; p. 643.
- Knives, Table and fruit. John Russell Cutlery Company. No. 126,471; Aug. 26; v. 265; p. 630.
- Labels for receptacles containing poison. Safety Poison Label Co. No. 124,152; Jan. 14; v. 258; p. 445.
- Laces and narrow fabrics, Shoe. I. Fleischer & Sons. No. 127,041; Oct. 21; v. 267; p. 479.
- Laces, Cotton camisole. The American Lace Mfg. Co. No. 124,653; Mar. 11; v. 260; p. 385.
- Laces, Shoe. Bristol Lace and Braid Company. No. 124,368; Feb. 11; v. 259; p. 379.
- Ladies' and gentlemen's cravats. A. Siegman, Inc. No. 125,762; June 10; v. 263; p. 328.
- Lamp-chimneys, Glass. Standard Oil Company of New York. No. 124,421; Feb. 11; v. 259; p. 381.
- Lamp-lenses. Corning Glass Works. No. 125,412; May 20; v. 262; p. 474.
- Lamp sockets and receptacles, Electric. Bryant Electric Company. No. 127,719; Dec. 2; v. 269; p. 185.
- Lamp sockets, Electric. Despard & Gordon Company. No. 125,627; June 3; v. 263; p. 161.
- Lamps, Automobile. American Auto Lamp Co. No. 124,948; Apr. 1; v. 261; p. 197.
- Lamps, Electric. Superior Lamp Mfg. Co. No. 127,792; Dec. 2; v. 269; p. 187.
- Lamps, Electric incandescent. Republic Electric Co. No. 127,868; Dec. 9; v. 269; p. 389.
- Lamps, Electric search and spot light trouble. Cell-beam Manufacturing Company. No. 125,027; Apr. 8; v. 261; p. 405.
- Lard, Augustine & Kyer. No. 125,607; June 3; v. 263; p. 161.
- Lard substitute. H. E. Kriel. No. 126,942; Oct. 14; v. 267; p. 336.
- Lard substitute. Magnolia Provision Company. No. 126,179; July 29; v. 264; p. 860.
- Lard substitute. Wisconsin Butterine Co. No. 127,557; Nov. 11; v. 268; p. 377.
- Lathe-bits for cutting. Colonial Steel Company. No. 127,216; Oct. 28; v. 267; p. 643.
- Lathe-chucks. Westcott Chuck Company. No. 126,804; Sept. 30; v. 266; p. 738.
- Lathes. O. R. Adams Mfg. Co. No. 126,970; Oct. 14; v. 267; p. 336.
- Lathes and parts thereof. Seneca Falls Mfg. Co. No. 126,209; July 29; v. 264; p. 861.
- Lathes, Metal-working engine. The Cincinnati Lathe and Tool Company. No. 126,262; Aug. 19; v. 265; p. 452.
- Laxative. J. H. Gardella. No. 128,068; Dec. 23; v. 269; p. 697.
- Laxative. Weldon Company. No. 124,172; Jan. 14; v. 258; p. 446.



## Alphabetical list of trade-marks—Continued.

- Laxative. G. M. Whitcomb. No. 126,806; Sept. 30; v. 266; p. 738.
- Laxative, cathartic, and bowel-tonic. Figall Remedy Co. No. 127,740; Dec. 2; v. 269; p. 186.
- Laxative compound. C. D. Hofar. No. 126,860; Oct. 7; v. 267; p. 178.
- Leather. A. C. Lawrence Leather Co. Nos. 125,232-3; Apr. 22; v. 261; p. 796.
- Leather. Penn Leather Co. No. 126,605; Sept. 23; v. 266; p. 593.
- Leather and belting dressing. J. C. Paulus and Company. No. 126,193; July 29; v. 264; p. 861.
- Leather and shoe dressing. C. A. Zoes. No. 125,376; May 13; v. 262; p. 310.
- Leather, Artificial. F. M. Allsopp. No. 126,118; July 29; v. 264; p. 859.
- Leather, Artificial. L. C. Chase & Company. No. 124,441; Feb. 18; v. 259; p. 571.
- Leather, Artificial. C. H. Kemper. No. 127,961; Dec. 16; v. 269; p. 542.
- Leather, Artificial. Keratol Company. No. 126,600; Sept. 23; v. 266; p. 593.
- Leather belting. Edward R. Ladew Company, Inc. Nos. 128,092-93; Dec. 23; v. 269; p. 697.
- Leather, Calf and side. Ohio Leather Company. No. 126,603; Sept. 23; v. 266; p. 593.
- Leather, Chrome-tanned shoe. Beaver Leather Manufacturing Co. No. 127,324; Nov. 11; v. 268; p. 369.
- Leather-dressing. R. Sundstrom. No. 128,266; Dec. 30; v. 269; p. 882.
- Leather-dressing. Whittemore Brothers Corporation. Nos. 124,628-9; Feb. 25; v. 259; p. 775.
- Leather, Finished. J. S. Barnett & Sons. No. 124,079; Jan. 14; v. 258; p. 443.
- Leather, gloves, shirts, &c. Joel Bally Davis Company. No. 127,282; Nov. 4; v. 268; p. 187.
- Leather hides for shoe-uppers, Tanned. Anchor Leather Co. No. 125,892; July 8; v. 264; p. 349.
- Leather, Imitation. J. Dejong. No. 125,898; July 8; v. 264; p. 349.
- Leather, Imitation. People's Outfitting Company. No. 125,910; July 8; v. 264; p. 349.
- Leather-preservatives. G. L. Egnatoff. No. 124,087; Jan. 14; v. 258; p. 443.
- Leather, Sheep. Traugott, Schmidt & Sons. No. 124,165; Jan. 14; v. 258; p. 446.
- Leather, Side and cut lace. F. B. Williams. No. 125,697; June 3; v. 263; p. 163.
- Leather, skins, and hides. Spiegel Bros. No. 127,516; Nov. 11; v. 268; p. 375.
- Leather softening compound, dressing, and cleaning detergent. A. A. Smith. No. 124,772; Mar. 11; v. 260; p. 389.
- Leather, Sole. Janney & Burrough. Nos. 127,624-5; Nov. 18; v. 268; p. 558.
- Leather, Tanned. Kullman, Salz & Co. No. 124,108; Jan. 14; v. 258; p. 444.
- Leather, Tanned and finished calf and kid. Victor Leather Company. No. 127,537; Nov. 11; v. 268; p. 376.
- Leathers. Widen-Lord Tanning Company. No. 124,913; Mar. 18; v. 260; p. 558.
- Leathers, leather washers and gaskets, Pump and valve. Excelsior Leather Washer Manufacturing Co. No. 126,536; Sept. 16; v. 266; p. 445.
- Leathers, Sole. L. Silberman. No. 127,507; Nov. 11; v. 268; p. 375.
- Lemons. Goldenwest Citrus Ass'n. Nos. 125,050-1; Apr. 8; v. 261; p. 406.
- Lemons. Oxnard Citrus Ass'n. Nos. 127,469-70; Nov. 11; v. 268; p. 374.
- Lemons, Fresh. Goldenwest Citrus Ass'n. Nos. 124,965-6; Apr. 1; v. 261; p. 197.
- Lenses for automobiles. Macbeth-Evans Glass Company. No. 124,321; Feb. 4; v. 259; p. 178.
- Lenses for spectacles, binoculars, &c. S. Matsunami. No. 127,088; Oct. 21; v. 267; p. 480.
- Level indicators, Liquid. New Standard Adding Machine Company. No. 124,982; Apr. 1; v. 261; p. 198.
- Light and power generating plants, Electric. General Gas Electric Co. No. 127,402; Nov. 11; v. 268; p. 372.
- Lightning-rods. The George E. Thompson Lightning Rod Co. No. 126,584; Sept. 16; v. 266; p. 447.
- Limbs, Artificial. True Artificial Limb Company. No. 128,270; Dec. 30; v. 269; p. 882.
- Limbs and parts thereof, Artificial. E-Z-Fit Artificial Limb Co. No. 124,839; Mar. 18; v. 260; p. 556.
- Limestone prepared for agricultural purposes. W. S. Halladay, Jr. No. 125,139; Apr. 15; v. 261; p. 625.
- Limestone-rock rectifier for soil. Rockfield Products Company. No. 124,583; Feb. 25; v. 259; p. 773.
- Linen piece goods. Mills & Gibb Corporation. No. 127,968; Dec. 16; v. 269; p. 543.
- Lingerie and petticoats. Western Garment Company. No. 127,548; Nov. 11; v. 268; p. 376.
- Liniment. F. J. Walukiewicz. No. 126,803; Sept. 30; v. 266; p. 738.
- Liniment. B. C. Wineland. No. 125,858; June 17; v. 263; p. 479.
- Liniment. F. C. Young. No. 125,860; June 17; v. 263; p. 479.
- Liniment for certain named ailments. John Chmiell Co. No. 125,127; Apr. 15; v. 261; p. 625.
- Liniment for neuralgia, rheumatism, &c. F. W. Peterson. No. 127,478; Nov. 11; v. 268; p. 374.
- Liniment for scalds, burns, &c. F. Anderson. No. 127,312; Nov. 11; v. 268; p. 369.
- Liniment for sore joints, cuts, &c. H. W. Levi. No. 125,068; Apr. 8; v. 261; p. 406.
- Liniment for sprains, rheumatism, &c. J. Therrien. No. 126,493; Aug. 26; v. 265; p. 630.
- Liniments. Dr. Johnston Medicine Co. No. 125,294; May 6; v. 262; p. 165.
- Linings, Cotton. D. W. Herrman. No. 124,717; Mar. 11; v. 160; p. 387.
- Linoleum, Imitation. George W. Blabon Company. No. 127,812; Dec. 9; v. 269; p. 387.
- Liquid polish for furniture and all finished surfaces. No. 125,916; July 8; v. 264; p. 349.
- Load supporting and conveying mechanism, Tracks for overhead. Richards-Wilcox Manufacturing Company. No. 127,121; Oct. 21; v. 267; p. 481.
- Locketts and fobs. Goldsmith, Stern & Co. No. 127,235; Oct. 28; v. 267; p. 644.
- Locks and parts thereof and keys. Aktiebolaget Exact. No. 128,213; Dec. 23; v. 269; p. 701.
- Loganberry-juice. Renken & Yates Smith. No. 127,670; Nov. 18; v. 268; p. 560.
- Looms. E. M. de Neergaard. No. 124,689; Mar. 11; v. 260; p. 386.
- Loose-leaf binders. Elbe File & Binder Company. No. 126,674; Sept. 30; v. 266; p. 734.
- Lotion, Face. R. Norman. No. 124,404; Feb. 11; v. 259; p. 380.
- Lotions, Skin. J. Venuto. No. 127,698; Nov. 18; v. 268; p. 561.
- Lozenges. Bio-Pharm Chemical Company. No. 127,715; Dec. 2; v. 269; p. 185.
- Lubricants. A. C. Buzby. No. 124,670; Mar. 11; v. 260; p. 385.
- Lubricants. Keystone Lubricating Company. No. 126,173; July 29; v. 264; p. 860.
- Lumber. H. C. Vaughan Lumber Co. No. 124,609; Feb. 25; v. 259; p. 774.
- Lumber, Certain named. Clear Lake Lumber Company. No. 125,128; Apr. 15; v. 261; p. 625.
- Lumber, Milled. R. J. Darnell Incorporated. Nos. 126,521-2; Sept. 16; v. 266; p. 445.
- Lumber, shingles, &c. Estes Lumber Co. No. 126,934; Oct. 14; v. 267; p. 335.
- Luminous compounds containing radium, Chemical. Sussfeld, Lorsch & Co. No. 124,162; Jan. 14; v. 258; p. 446.
- Lunch in boxes, consisting of sandwiches, cake, pastry, &c., Prepared. J. Heppel. No. 127,414; Nov. 11; v. 268; p. 372.
- Lye. E. Myers Lye Company. No. 127,644; Nov. 18; v. 268; p. 559.
- Macaroni. Brooklyn Macaroni Mfg. Co. No. 124,817; Mar. 18; v. 260; p. 555.
- Macaroni. Buckley Macaroni Company. No. 125,972; July 22; v. 264; p. 695.
- Macaroni. Merante & Liberti. No. 124,564; Feb. 25; v. 259; p. 773.
- Macaroni. A. Mortellaro & Co. No. 124,644; Mar. 4; v. 260; p. 197.
- Macaroni. National Macaroni Co. No. 126,729; Sept. 30; v. 266; p. 736.
- Macaroni. P. W. Tozzi. No. 124,897; Mar. 18; v. 260; p. 557.
- Macaroni and olive-oil. R. Martorelli. No. 125,156; Apr. 15; v. 261; p. 626.
- Macaroni and spaghetti. Kansas City Macaroni Co. No. 126,298; Aug. 19; v. 265; p. 453.
- Macaroni, elbows, spaghetti. Massaro Macaroni Company. No. 127,638; Nov. 18; v. 268; p. 559.
- Macaroni, spaghetti, &c. P. & M. Giardina. No. 127,185; Oct. 21; v. 267; p. 483.
- Macaronic foods. United States Macaroni Company. No. 124,900; Mar. 18; v. 260; p. 557.
- Macaronic foods. United States Macaroni Company. No. 125,769; June 10; v. 263; p. 328.
- Machetes and cane-cutting knives. Reciprocity Supply Company. No. 126,571; Sept. 16; v. 266; p. 447.
- Machinery. L. A. Young Industries. No. 126,810; Sept. 30; v. 266; p. 739.
- Machinery and tools and parts thereof. Baush Machine Tool Company. No. 125,960; July 22; v. 264; p. 695.
- Machinery and tools and parts thereof, Certain named. Williams Patent Crusher and Pulverizer Co. No. 124,358; Feb. 4; v. 259; p. 179.
- Machinery and work-benches. Gear-casings used on. Lyon Metallic Manufacturing Company. No. 126,874; Oct. 7; v. 267; p. 178.
- Machinery, Mechanically-operated. Elevator Locks Co. No. 126,528; Sept. 16; v. 266; p. 445.
- Machines and tools and parts thereof. The Deming Co. No. 126,595; Sept. 23; v. 266; p. 593.
- Machines, machinery, and tools, and parts. American Broach & Machine Co. No. 126,979; Oct. 21; v. 267; p. 477.
- Magazine. H. M. Lane Company. No. 124,551; Feb. 25; v. 259; p. 772.
- Magazine, Monthly. Hat Trade Publishing Co. No. 127,842; Dec. 9; v. 269; p. 388.

- Magazine, Monthly. International Magazine Company. No. 124,102; Jan. 14; v. 258; p. 444.
- Magazine, Monthly. Millinery Trade Publishing Co. No. 127,854; Dec. 9; v. 269; p. 388.
- Magazine, Monthly. The National Drug Clerk, Inc. No. 124,754; Mar. 11; v. 260; p. 388.
- Magazine, Monthly. The Priscilla Publishing Co. No. 127,112; Oct. 21; v. 267; p. 481.
- Magazine, Monthly. Rogers Peet Company. No. 127,871; Dec. 9; v. 269; p. 389.
- Magazine, Monthly. G. C. Smith. No. 127,879; Dec. 9; v. 269; p. 389.
- Magazine, Monthly. The Standard Parts Company. No. 125,314; May 6; v. 262; p. 166.
- Magazine, Monthly. The Texas Company. No. 124,896; Mar. 18; v. 260; p. 557.
- Magazine, Monthly. Vanity Fair Publishing Co. No. 125,541; May 20; v. 262; p. 478.
- Magazine, Monthly. Woman's National Magazine Co. No. 124,181; Jan. 14; v. 258; p. 446.
- Magazine, Monthly. Woman's National Magazine Co. No. 125,183; Apr. 15; v. 261; p. 627.
- Magazine-section. Photoplay Publishing Company. No. 124,143; Jan. 14; v. 258; p. 445.
- Magazine, Trade. Edward T. Fleming & Sons. No. 127,042; Oct. 21; v. 267; p. 479.
- Magazine, Trade. E. F. Houghton & Co. No. 124,540; Feb. 25; v. 259; p. 772.
- Magazine, Weekly. Ashwell, Davis & Co. No. 127,807; Dec. 9; v. 269; p. 387.
- Magazine, Weekly. Gulf Publishing Company. No. 126,009; July 22; v. 264; p. 697.
- Magazines, Monthly. Jewish Agricultural and Industrial Aid Society. No. 127,066; Oct. 21; v. 267; p. 479.
- Magneto parts. E. Rogow. No. 124,340; Feb. 4; v. 259; p. 179.
- Magnets, spark-coils, &c. Eisemann Magneto Company. No. 126,814; Sept. 30; v. 266; p. 739.
- Magnets, Permanent. Esterline Company. No. 126,273; Aug. 19; v. 265; p. 452.
- Mail-indicators, Electric. Elec-Mi Manufacturing Co. No. 124,698; Mar. 11; v. 260; p. 386.
- Mailing-envelops, Parcel-post. Bemis Bro. Bag. Co. No. 126,840; Sept. 30; v. 266; p. 733.
- Mailing-lists, facsimile letters, &c. Ross-Gould List & Letter Company. No. 125,097; Apr. 8; v. 261; p. 407.
- Malt extract. Pabst Brewing Company. No. 127,861; Dec. 9; v. 269; p. 388.
- Manifolds for gas-engines. Shurnuff Manufacturing Company. No. 125,250; Apr. 22; v. 261; p. 797.
- Maps, Printed. F. W. Hockaday. No. 124,098; Jan. 14; v. 258; p. 444.
- Margarin and lard compound. De Bruyn, Limited. No. 124,688; Mar. 11; v. 260; p. 386.
- Margarin and oleomargarin, Nut-. Northern Ohio Dairy Company. No. 124,865; Mar. 18; v. 260; p. 556.
- Margarin and oleomargarin, Nut-. Union Meat Company. No. 127,151; Oct. 21; v. 267; p. 482.
- Margarin cooking compound. King R. Graham, Inc. No. 125,644; June 3; v. 263; p. 162.
- Margarin, Nut-. John Morrell & Company. No. 124,979; Apr. 1; v. 261; p. 198.
- Marine engines, Diesel. Fairbanks, Morse & Co. Nos. 128,060-1; Dec. 23; v. 269; p. 696.
- Marmalade. F. E. Holliday. No. 126,861; Oct. 7; v. 267; p. 178.
- Marmalade. C. H. Moss. No. 125,243; Apr. 22; v. 261; p. 796.
- Marmalades. J. E. See. No. 127,503; Nov. 11; v. 268; p. 375.
- Marshmallow cream. Fred Degner, Inc. No. 126,665; Sept. 30; v. 266; p. 734.
- Masks and respirators. The Hygeia Respirator Co. No. 124,970; Apr. 1; v. 261; p. 197.
- Massage vibrators, Electric-. The Fitzgerald Mfg. Company. No. 125,569; May 27; v. 262; p. 643.
- Massaging instruments. P. Beshgeturian. No. 125,009; June 3; v. 263; p. 161.
- Matches. The Diamond Match Co. No. 124,823; Mar. 18; v. 260; p. 555.
- Material-handling machinery for handling materials. The Schaffer Engineering & Equipment Co. No. 127,495; Nov. 11; v. 268; p. 375.
- Mattresses. Continental Bedding Manufacturing Company. No. 128,036; Dec. 23; v. 269; p. 696.
- Mattresses. Imperial Mattress Company. No. 124,458; Feb. 18; v. 259; p. 571.
- Measuring and computing machines. The Clothometer Company. No. 127,358; Nov. 11; v. 268; p. 370.
- Measuring and scientific appliances. A. Hernandez-Mejia. No. 127,054; Oct. 21; v. 267; p. 479.
- Measuring and scientific appliances. National Gauge & Equipment Company. No. 127,096; Oct. 21; v. 267; p. 480.
- Measuring and scientific appliances. Norman A. Lane. No. 126,047; July 22; v. 264; p. 698.
- Measuring and scientific appliances. Pratt & Whitney Company. No. 127,111; Oct. 21; v. 267; p. 481.
- Measuring and scientific appliances, Certain named. The Priscilla Publishing Co. No. 124,334; Feb. 4; v. 259; p. 178.
- Measuring and scientific appliances, Certain named. Shapleigh Hardware Company. No. 124,995; Apr. 1; v. 261; p. 198.
- Meats, fish, and poultry, uncooked fruits, &c., Cooked. Alpha Lunch Co. No. 124,277; Feb. 4; v. 259; p. 177.
- Medical jelly for the nose. M. F. Schlesinger. No. 126,076; July 22; v. 264; p. 699.
- Medical preparation for rheumatism. T. Waleryianczyk. No. 127,158; Oct. 21; v. 267; p. 482.
- Medicinal compound. Hille Laboratories. Nos. 127,416-17; Nov. 11; v. 268; p. 372.
- Medicinal compound for certain named ailments. M. Lefkowitz. No. 125,066; Apr. 8; v. 261; p. 406.
- Medicinal compound for the treatment of certain named ailments. G. N. Rossia. No. 125,098; Apr. 8; v. 261; p. 407.
- Medicinal compounds, Certain named. Camo Chemical Co. No. 124,671; Mar. 11; v. 260; p. 385.
- Medicinal health-invigorator. R. L. L. Warner. No. 127,539; Nov. 11; v. 268; p. 376.
- Medicinal preparation. All-Americas Medicine Corporation. No. 124,649; Mar. 11; v. 260; p. 385.
- Medicinal preparation. A. Amamoto. No. 126,235; Aug. 19; v. 265; p. 451.
- Medicinal preparation. C. M. Jacobs. No. 126,700; Sept. 30; v. 266; p. 735.
- Medicinal preparation. J. S. Johnson. No. 127,629; Nov. 18; v. 268; p. 558.
- Medicinal preparation. H. W. McChesney. No. 128,112; Dec. 23; v. 269; p. 698.
- Medicinal preparation. J. H. Tann. No. 126,094; July 22; v. 264; p. 699.
- Medicinal preparation. S. Tringali. No. 125,259; Apr. 22; v. 261; p. 797.
- Medicinal preparation for alcoholism. C. W. Ream. No. 124,148; Jan. 14; v. 258; p. 445.
- Medicinal preparation for affected respiratory organs. All-Americas Medicine Corporation. No. 124,497; Feb. 25; v. 259; p. 771.
- Medicinal preparation for asthma, &c. The Bennett Mfg. Co. No. 126,641; Sept. 30; v. 266; p. 733.
- Medicinal preparation for colds, catarrh, &c. R. W. Clothier. No. 125,978; July 22; v. 264; p. 696.
- Medicinal preparation for epilepsy, &c. G. M. Whitcomb. No. 127,162; v. 267; p. 482.
- Medicinal preparation for influenza and pneumonia. H. V. Smith & Company. No. 126,215; July 29; v. 264; p. 862.
- Medicinal preparation for nerves and blood. F. P. Quinones. No. 125,503; May 20; v. 262; p. 476.
- Medicinal preparation for the kidneys and liver. S. Pfeiffer Manufacturing Co. No. 126,952; Oct. 14; v. 267; p. 336.
- Medicinal preparation for treatment of rheumatism, &c. Rheumachol Laboratories Company. No. 127,869; Dec. 9; v. 269; p. 389.
- Medicinal preparation for typhoid fever, malaria, &c. A. H. Davis. No. 126,144; July 29; v. 264; p. 859.
- Medicinal preparation used as a nerve-tonic. F. A. Greene. No. 126,425; Aug. 26; v. 265; p. 628.
- Medicinal preparations. Atrebia Medical Company. No. 125,324; May 13; v. 262; p. 309.
- Medicinal preparations. H. A. Metz Laboratories. No. 125,240; Apr. 22; v. 261; p. 796.
- Medicinal preparations. The Hayden Chemical Works. Nos. 125,222-3; Apr. 22; v. 261; p. 796.
- Medicinal preparations for hogs. A. H. Kerr. No. 126,229; Aug. 5; v. 265; p. 141.
- Medicinal product for treatment of diseases of fowls and swine. The Wight Company. No. 127,557; Nov. 11; v. 268; p. 376.
- Medicinal tonic. J. de Jesus. No. 126,933; Oct. 14; v. 267; p. 335.
- Medicinal tonic for stomach and bowel trouble, &c. B. E. Enterkine. No. 127,738; Dec. 2; v. 269; p. 186.
- Medicinal tonic for the nervous system. J. Bourazanis. No. 125,720; June 10; v. 263; p. 327.
- Medicinal treatment for epilepsy. G. M. Whitcomb. No. 127,703; Nov. 18; v. 268; p. 561.
- Medicinal treatment for goiter. L. E. Phillips. No. 127,780; Dec. 2; v. 269; p. 187.
- Medicine for animals. A. L. Godber. No. 126,685; Sept. 30; v. 266; p. 735.
- Medicine for catarrhal affections, &c. W. S. Curtin. No. 127,019; Oct. 21; v. 267; p. 478.
- Medicine for chronic constipation, &c. M. Sbaraga. No. 126,900; Oct. 7; v. 267; p. 179.
- Medicine for coughs and colds. L. F. Christman. No. 127,725; Dec. 2; v. 269; p. 185.
- Medicine for coughs, colds, croup, bronchitis, &c. C. H. F. Lembke. No. 127,432; Nov. 11; v. 268; p. 373.
- Medicine for corns, bunions, and calluses. H. L. S. Toomer. No. 126,098; July 22; v. 264; p. 699.
- Medicine for diarrhea and colds. P. M. Hamacher. No. 127,052; Oct. 21; v. 267; p. 479.
- Medicine for goiter. C. F. Keller. No. 126,704; Sept. 30; v. 266; p. 735.
- Medicine for hog and chicken cholera. S. F. Linder. No. 126,712; Sept. 30; v. 266; p. 736.
- Medicine for indigestion and disorders of the bowels. J. Nowack. No. 124,935; Mar. 25; v. 260; p. 729.



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- Medicine for live stock. Parson's Chemical Works. No. 125,710; June 3; v. 263; p. 164.
- Medicine for lung trouble. The Raegine Chemical Company. No. 124,938; Mar. 25; v. 260; p. 729.
- Medicine for rheumatism. H. Jones. No. 127,754; Dec. 2; v. 269; p. 186.
- Medicine for rheumatism. Weldona Company. No. 124,173; Jan. 14; v. 258; p. 446.
- Medicine for rheumatism and a blood-purifier. C. P. Kindler. No. 125,457; May 20; v. 262; p. 475.
- Medicine for rheumatism, catarrh, and gout. S. Wojcik. No. 125,552; May 20; v. 262; p. 478.
- Medicine for sciatica, rheumatism, cramps, &c. D. A. Ortega. No. 127,106; Oct. 21; v. 267; p. 481.
- Medicine for tuberculosis and pulmonary affections. Oleupath Company. Nos. 124,406-7; Feb. 11; v. 259; p. 380.
- Medicine, Proprietary. J. A. Haddad. No. 127,838; Dec. 9; v. 269; p. 388.
- Medicine, Rheumatism. C. V. Newell. No. 125,754; June 10; v. 263; p. 328.
- Medicine used as a blood-purifier. W. H. Meadows. No. 125,937; July 15; v. 264; p. 531.
- Medicine used for indigestion, as a blood-purifier, &c. J. Brandl. No. 124,504; Feb. 25; v. 259; p. 771.
- Medicines. The Lefo Chemical Company. No. 124,736; Mar. 11; v. 260; p. 387.
- Medicines and pharmaceutical preparations. San Antonio Drug Co. No. 127,127; Oct. 21; v. 267; p. 481.
- Medicines and pharmaceutical preparations, Certain named. American Brokerage Company. No. 125,381; May 20; v. 262; p. 473.
- Medicines for constipation, &c. G. W. Fillauer. No. 126,276; Aug. 19; v. 265; p. 452.
- Medicines for the relief of hay-asthma. Duerdin & Sainsbury. Nos. 125,209-10; Apr. 22; v. 261; p. 795.
- Meringue-powder. American Sugar Refining Company. No. 126,376; Aug. 26; v. 265; p. 627.
- Metal and glass polish. Denova Manufacturing Company. No. 128,235; Dec. 30; v. 269; p. 881.
- Metal and wood working machines, parts, and accessories. Pratt & Whitney Company. No. 125,835; June 17; v. 263; p. 478.
- Metal, Cast-iron-welding. Central Steel & Wire Company. No. 126,138; July 29; v. 264; p. 859.
- Metal door-mats. Northwestern Expanded Metal Company. No. 124,405; Feb. 11; v. 259; p. 380.
- Metal fixtures. The Seng Company. No. 124,588; Feb. 25; v. 259; p. 773.
- Metal panels and partitions. Lyon Metallic Manufacturing Company. No. 126,714; Sept. 30; v. 266; p. 736.
- Metal-polish. Ponzio Brothers. No. 126,467; Aug. 26; v. 265; p. 630.
- Metal products, Certain named. Northwestern Expanded Metal Company. No. 124,261; Jan. 28; v. 258; p. 810.
- Metal-working machines, Certain named. W. G. Moore. No. 124,327; Feb. 4; v. 259; p. 178.
- Metal-working machines, parts thereof, and accessories thereof. Niles-Bement-Pond Company. No. 124,758; Mar. 11; v. 260; p. 388.
- Metal-working machinery. Defiance Machine Works. No. 128,043; Dec. 23; v. 269; p. 696.
- Metal-working taps and dies. Gardner-Bryan Company. No. 127,233; Oct. 28; v. 267; p. 643.
- Metals and metal castings and forgings. Vleel, Blackwell & Buck. No. 127,157; Oct. 21; v. 267; p. 482.
- Metals and metal castings and forgings, Certain named. American Sheet & Tin Plate Company. No. 126,125; July 29; v. 264; p. 859.
- Metals and metal castings for forgings, Certain named. Dryer-Harris Company. No. 125,630; June 3; v. 263; p. 161.
- Metals, Babbitt. The Muzzy Lyon Co. No. 124,329; Feb. 4; v. 259; p. 178.
- Metals, Non-ferrous. White and Brother. No. 127,163; Oct. 21; v. 267; p. 482.
- Metals, white-metal alloys, White, &c. Union Smelting & Refining Company. No. 124,795; Mar. 11; v. 260; p. 389.
- Meters, Ampere-hour. The Automatic Electrical Devices Company. No. 124,283; Feb. 4; v. 259; p. 177.
- Meters for liquids, Recording. Yarnall-Waring Company. No. 127,169; Oct. 21; v. 267; p. 483.
- Methyl salicylic acid for treatment of sores, &c. Product of. Lloyd Brothers. No. 126,032; July 22; v. 264; p. 697.
- Middy-blouses and middy-suits for women and children. Crippen & Reid. No. 127,270; Nov. 4; v. 268; p. 187.
- Military and naval insignia. Mount Royal Corporation. No. 124,328; Feb. 4; v. 259; p. 178.
- Milk, Canned evaporated. Indiana Condensed Milk Co. Nos. 125,145-6; Apr. 15; v. 261; p. 625.
- Milk, Condensed. Borden's Condensed Milk Company. No. 128,224; Dec. 30; v. 269; p. 881.
- Milk, Condensed. Franklin County Creamery & Condensed Milk Company. No. 125,216; Apr. 22; v. 261; p. 796.
- Milk, Condensed. Holland Food Corporation. No. 127,619; Nov. 18; v. 268; p. 558.
- Milk, Condensed. Isaac Kubie Company. No. 127,846; Dec. 9; v. 269; p. 388.
- Milk, Condensed. Lewis County Condensed Milk Co. No. 127,435; Nov. 11; v. 268; p. 373.
- Milk, Condensed skimmed. Dewart Milk Products Co. No. 124,960; Apr. 1; v. 261; p. 197.
- Milk, cream, evaporated and condensed milks. Sheffield Farms Co. No. 127,133; Oct. 21; v. 267; p. 481.
- Milk, Desiccated. Dry Milk Company. No. 125,987; July 22; v. 264; p. 696.
- Milk, Desiccated. Dry Milk Company. Nos. 126,147-8; July 29; v. 264; p. 860.
- Milk, Dried or desiccated. Borden's Condensed Milk Company. No. 125,022; Apr. 8; v. 261; p. 405.
- Milk, Dry. Dry Milk Company. No. 127,733; Dec. 2; v. 269; p. 186.
- Milk, Evaporated. Federal Condensed Milk Company. No. 126,679; Sept. 30; v. 266; p. 735.
- Milk, Evaporated. J. F. O'Brien. No. 125,668; June 3; v. 263; p. 163.
- Milk, Evaporated. The Ohio Dairy Company. No. 125,709; June 3; v. 263; p. 164.
- Milk, Powdered skim-. Merton Dairy Products Company. No. 128,247; Dec. 30; v. 269; p. 881.
- Milks, Evaporated and condensed. Sheffield Farms Co. No. 126,478; Aug. 26; v. 265; p. 630.
- Milking-machines. Pine Tree Milking Machine Co. No. 125,500; May 20; v. 262; p. 476.
- Milking-machines and milking-machine systems and parts thereof. Empire Cream Separator Company. No. 125,213; Apr. 22; v. 258; p. 795.
- Millinery-felts. A. L. Simon & Co. No. 124,477; Feb. 18; v. 259; p. 572.
- Millinery, gowns, furs. Peggy Hoyt, Inc. No. 124,722; Mar. 11; v. 260; p. 387.
- Milling and grinding machines, Metal-working. The Bristol Machine Tool Co. No. 125,398; May 20; v. 262; p. 473.
- Milling-machines, &c. Fredk. Mountford (Birmingham) Ltd. No. 126,562; Sept. 16; v. 266; p. 446.
- Mince-meat. Medonak Canning Company. No. 125,157; Apr. 15; v. 261; p. 626.
- Mine or pit cars. The Bonney Floyd Company. No. 125,610; June 3; v. 263; p. 161.
- Mirrors. The Acme Specialty Manufacturing Company. No. 125,604; May 27; v. 262; p. 644.
- Mirrors, Rear-view. L. Cammen. No. 127,265; Nov. 4; v. 268; p. 187.
- Molasses. Pure Cane Molasses Corporation. No. 126,339; Aug. 19; v. 265; p. 454.
- Molasses. Sugar Products Company. No. 125,764; June 10; v. 263; p. 328.
- Molasses and syrups. Penick & Ford, Ltd. No. 126,747; Sept. 30; v. 266; p. 737.
- Moss for upholstering. L. B. Babin. No. 126,590; Sept. 23; v. 266; p. 593.
- Motor-cycles and bicycles. Excelsior Motor Mfg. and Supply Co. No. 125,637; June 3; v. 263; p. 162.
- Motor-hoists. J. Geo. Leyner Engineering Works Company. No. 127,852; Dec. 9; v. 269; p. 388.
- Motors and dynamos, lamp-rheostats, &c. Demonstration. Chicago Apparatus Company. No. 125,622; June 3; v. 263; p. 161.
- Motors and motor parts, Electric. Universal Appliance Corporation. No. 127,891; Dec. 9; v. 269; p. 389.
- Motors, Musical-instrument. Otto Heinemann Phonograph Supply Co. No. 126,055; July 22; v. 264; p. 692.
- Motorcycles. Harley-Davidson Motor Co. No. 127,187; Oct. 7; v. 267; p. 483.
- Mouth-wash. Five Points Drug Co. No. 126,420; Aug. 26; v. 265; p. 628.
- Mouth-wash. Dr. T. J. King-Clarence W. King, D. D. S. No. 126,438; Aug. 26; v. 265; p. 629.
- Mouth-washes and dental medicaments. V. V. J. Andersen. No. 124,171; Jan. 14; v. 258; p. 446.
- Mowers, Lawn-. Simmons Hardware Company. No. 126,781; Sept. 30; v. 266; p. 738.
- Mucilage. Columbia Fastener Company. No. 127,362; Nov. 11; v. 268; p. 370.
- Muffer cut-outs. Emco Manufacturing Company. No. 127,035; Oct. 21; v. 267; p. 478.
- Mule and horse collars. Wm. Enders Manufacturing Company. No. 127,735; Dec. 2; v. 269; p. 186.
- Music-rolls and record-sheets for automatic musical instruments. Republic Player Roll Corporation. No. 124,150; Jan. 14; v. 258; p. 445.
- Musical compositions. B. Osso. No. 127,860; Dec. 9; v. 269; p. 388.
- Musical compositions. Robert Russell Bennett Company. No. 127,810; Dec. 9; v. 269; p. 387.
- Musical-instrument strings. H. Cohn. No. 127,593; Nov. 18; v. 268; p. 557.
- Musical instruments, Certain named. Jacob Doll & Sons. No. 124,520; Feb. 25; v. 259; p. 771.
- Nail-polish, Liquid. L. Carter. No. 126,395; Aug. 26; v. 265; p. 627.
- Nails and tacks. United Shoe Machinery Corporation. No. 124,796; Mar. 11; v. 260; p. 389.
- Nails, Furniture and upholstery. The H. C. Tack Company. No. 125,000; Apr. 1; v. 261; p. 193.
- Napkins, Sanitary. A. J. Churchill Co. No. 127,177; Oct. 21; v. 267; p. 483.
- Neckties, cravats. Cheney Brothers. Nos. 127,353-4; Nov. 11; v. 268; p. 370.

- Neckwear. Keet & Rountree Dry Goods Co. No. 125,296; May 6; v. 262; p. 165.
- Needles, Crochet. The Boye Needle Company. No. 125,895; July 8; v. 264; p. 349.
- Newspaper articles. M. M. Hulst. No. 124,542; Feb. 25; v. 259; p. 772.
- Newspaper, Monthly. The Standard Parts Company. No. 125,313; May 6; v. 262; p. 166.
- Newspaper-section. M. M. Hulst. No. 124,541; Feb. 25; v. 259; p. 772.
- Newspaper-section. Mail and Express Company. No. 127,083; Oct. 21; v. 267; p. 480.
- Newspaper-section. Star Company. No. 125,527; May 20; v. 262; p. 477.
- Newspaper-section. Star Company. No. 126,487; Aug. 26; v. 265; p. 630.
- Newspaper, &c., section or department. W. W. Funge, Jr. No. 125,288; May 6; v. 262; p. 165.
- Newspapers. A. Brisbane. No. 127,905; Dec. 16; v. 269; p. 541.
- Newspapers. The Washington Times Company. No. 127,894; Dec. 9; v. 269; p. 390.
- Newspapers. Yale Daily News. No. 126,114; July 22; v. 264; p. 700.
- Nipples, Elastic nursing. Whitall Tatum Company. No. 126,973; Oct. 14; v. 267; p. 337.
- Nipples, Nursing. Harris and Berntz Co. No. 126,165; July 29; v. 264; p. 860.
- Nitrous oxid prepared for anesthetic purposes and oxygen gas for medical purposes. Oxygen Gas Company. No. 127,471; Nov. 11; v. 268; p. 374.
- Nozzles, Spraying. The Deming Company. No. 126,523; Sept. 16; v. 266; p. 445.
- Nuts and candy, Salted and unsalted. M. Wright. No. 124,132; Jan. 14; v. 258; p. 446.
- Nuts, candy, chewing-gum. J. H. Mercian. No. 124,565; Feb. 25; v. 259; p. 773.
- Oak-tanned leather belting and cut lace-leather. F. B. Williams. No. 125,714; June 3; v. 263; p. 164.
- Oats, dried codfish, rice, &c., Rolled. F. E. Royston & Company. No. 126,896; Oct. 7; v. 267; p. 179.
- Oats, Flaked. Fleming and Company. No. 125,214; Apr. 22; v. 261; p. 795.
- Oatmeal and rolled oats, Steam-cooked. H-O Company. No. 125,343; May 13; v. 262; p. 309.
- Obstetrical packages. The Woodrole Company. No. 125,602; May 27; v. 262; p. 644.
- Office equipment and furniture. Steel. Berger Manufacturing Company. No. 126,130; July 29; v. 264; p. 859.
- Oil and greases, Lubricating. Theo. H. Gary Co. No. 127,401; Nov. 11; v. 268; p. 372.
- Oil, Canned olive-. J. Llopis Pelejero. No. 125,497; May 20; v. 262; p. 470.
- Oil-cloth. The Columbus-Union Oil Cloth Co. No. 125,035; Apr. 8; v. 261; p. 405.
- Oil, Edible. J. Chahin. No. 127,587; Nov. 18; v. 268; p. 557.
- Oil, Edible. Microuscos Bros. No. 125,354; May 13; v. 262; p. 310.
- Oil, Edible. The Southern Cotton Oil Company. Nos. 127,140-2; Oct. 21; v. 267; p. 482.
- Oil, Edible cotton-seed. Littauer Oil Company. No. 126,031; July 22; v. 264; p. 697.
- Oil for guns, bicycles, &c., Lubricating. Simmons Hardware Company. No. 126,780; Sept. 30; v. 266; p. 738.
- Oil for lighting, heating, and power. Standard Oil Company of New York. No. 126,091; July 22; v. 264; p. 699.
- Oil for lubricating yarn in the process of manufacture. Mardew, Orth & Hastings Corporation. No. 126,036; July 22; v. 264; p. 697.
- Oil for saturating, softening purposes, cotton, wool, and silk. Stanley D. Subers Chemical Co. No. 126,492; Aug. 26; v. 265; p. 630.
- Oil for the treatment of silk. Moore Oil Company. No. 127,855; Dec. 9; v. 269; p. 388.
- Oil, glycerin, borax, &c., Castor. Western Grocer Company. No. 127,798; Dec. 2; v. 269; p. 187.
- Oil, Growing and pressing hair-. M. Richie & Co. No. 126,341; Aug. 19; v. 265; p. 454.
- Oil, Linseed-. Red Wing Linseed Oil Company. No. 126,755; Sept. 30; v. 266; p. 737.
- Oil, Lubricating-. The Texas Company. No. 127,519; Nov. 11; v. 268; p. 375.
- Oil, mayonnaise dressing, olives, &c., Cotton-seed. J. E. Shoemaker Co. No. 126,080; July 22; v. 264; p. 699.
- Oil, Olive-. S. K. Assanakis. No. 127,263; Nov. 4; v. 268; p. 187.
- Oil, Olive-. G. Bianco & Figlio. No. 127,990; Oct. 21; v. 267; p. 477.
- Oil, Olive-. Crisi & Cerchione. No. 127,271; Nov. 4; v. 268; p. 187.
- Oil, Olive-. D. Marti y Torres. No. 126,793; Sept. 30; v. 266; p. 738.
- Oil, Olive-. A. Rubino. No. 125,883; June 24; v. 263; p. 631.
- Oil, Olive-. A. Russo. No. 126,072; July 22; v. 264; p. 699.
- Oil, Olive-. A. D. Shaw & Co. No. 127,504; Nov. 11; v. 268; p. 375.
- Oil, Peanut-. The E. Clarke Company. No. 125,623; June 3; v. 263; p. 161.
- Oil, Salad-. Crisafulli Bros. No. 124,924; Mar. 25; v. 260; p. 729.
- Oil, Salad-. Gavalla & Barpar. No. 125,641; June 3; v. 263; p. 162.
- Oil, Salad-. B. G. Makris. No. 126,314; Aug. 19; v. 265; p. 453.
- Oil, Salad and cooking. R. Gerber & Co. No. 127,945; Dec. 16; v. 269; p. 542.
- Oil substitute, Edible olive-. Elysee Olive Oil Co. No. 124,236; Jan. 28; v. 258; p. 804.
- Oil, Threading-. G. A. Hosmer Company. No. 124,929; Mar. 25; v. 260; p. 729.
- Oil, turpentine, &c., Linseed-. Wm. McDonagh & Sons. No. 125,236; Apr. 22; v. 261; p. 796.
- Oil used as an enriching fluid for gasoline, Lubricating-. F. J. Gifford. No. 124,095; Jan. 14; v. 258; p. 443.
- Oil, Vegetable. The N. K. Fairbank Company. No. 126,678; Sept. 30; v. 266; p. 735.
- Oil, White mineral. Standard Oil Company. No. 125,763; June 10; v. 263; p. 328.
- Oil, White mineral. Standard Oil Company. No. 126,217; July 29; v. 264; p. 862.
- Oils. Goodlass Wall & Company Limited. No. 127,946; Dec. 16; v. 269; p. 542.
- Oils. Sinclair Refining Company. No. 126,348; Aug. 19; v. 265; p. 454.
- Oils. H. M. Wells. No. 128,272; Dec. 30; v. 269; p. 882.
- Oils and grease, Lubricating. International Lubricating Company. No. 127,622; Nov. 18; v. 268; p. 558.
- Oils and greases. Island Petroleum Company. No. 127,844; Dec. 9; v. 269; p. 388.
- Oils and greases. Sinclair Refining Company. No. 126,782; Sept. 30; v. 266; p. 738.
- Oils and greases. Wilson & Co. No. 124,430; Feb. 11; v. 259; p. 381.
- Oils and greases, Certain named. The Atlantic Refining Company. Nos. 124,920-1; Mar. 25; v. 260; p. 729.
- Oils and greases, Certain named. G. A. Bergfors. No. 124,285; Feb. 4; v. 259; p. 177.
- Oils and greases, Certain named. The Texas Company. No. 124,602; Feb. 25; v. 259; p. 774.
- Oils and greases, Lubricating. W. R. Bleecker. No. 125,965; July 22; v. 264; p. 695.
- Oils and greases, Lubricating. Fiske Brothers Refining Co. No. 126,156; July 29; v. 264; p. 860.
- Oils and greases, Lubricating. Monarch Manufacturing Company. No. 125,241; Apr. 22; v. 261; p. 796.
- Oils and paraffin-wax. Penn American Refining Co. No. 127,864; Dec. 9; v. 269; p. 389.
- Oils, Certain edible. Ste. Anne. Des Huileries Maurel & H. From & Maurel Frères. No. 125,239; Apr. 22; v. 261; p. 796.
- Oils, Cutting and lubricating. Sun Company. Nos. 127,883; Dec. 9; v. 269; p. 389.
- Oils, Cutting and lubricating. Sun Company. No. 128,182; Dec. 23; v. 269; p. 700.
- Oils for dressing and finishing leather. Vacuum Oil Company. Nos. 124,424-5; Feb. 11; v. 259; p. 381.
- Oils for illuminating, burning, power, fuel, &c., Certain named. Sinclair Refining Company. No. 126,083; July 22; v. 264; p. 699.
- Oils for lubricating textiles. Vacuum Oil Company. Nos. 124,168-9; Jan. 14; v. 258; p. 446.
- Oils for use in the manufacture of perfumes, &c. Stevenson and Howell Co. No. 125,587; May 27; v. 262; p. 644.
- Oils, greases, &c. Union Petroleum Company. No. 128,191; Dec. 23; v. 269; p. 700.
- Oils, Lubricating-. McCormick & Co. No. 124,743; Mar. 11; v. 260; p. 588.
- Oils, Lubricating-. The Schofield Oil Co. No. 125,760; June 10; v. 263; p. 328.
- Oils, Lubricating-. The Schofield Oil Co. Nos. 126,475-6; Aug. 26; v. 265; p. 630.
- Oils, Lubricating-. The Schofield Oil Co. No. 126,775; Sept. 30; v. 266; p. 737.
- Oils, Lubricating-. Standard Oil Company. No. 128,177; Dec. 23; v. 269; p. 700.
- Oils, Lubricating-. Sun Company. No. 127,882; Dec. 9; v. 269; p. 389.
- Oils, Lubricating-. Sun Company. Nos. 127,884-6; Dec. 9; v. 269; p. 389.
- Oils, Lubricating-. Sun Company. No. 127,994; Dec. 16; v. 269; p. 543.
- Oils, Lubricating-. Sun Company. No. 128,183; Dec. 23; v. 269; p. 700.
- Oils, Lubricating-. Vacuum Oil Company. No. 124,426; Feb. 11; v. 259; p. 381.
- Oils, Lubricating-. Vacuum Oil Company. No. 124,799; Mar. 11; v. 260; p. 389.
- Oils, paraffin, &c., Lubricating and burning. Sun Company. No. 124,943; Mar. 25; v. 260; p. 729.
- Oils, Salad-. Liberty Salad Oil Company. No. 125,150; Apr. 15; v. 261; p. 626.
- Ointment. George Mortimer & Company. No. 125,300; May 6; v. 262; p. 165.
- Ointment. J. E. Naregan. No. 126,043; July 22; v. 264; p. 698.



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- Ointment. Yalowich Bros. Drug Co. No. 125,603; May 27; v. 262; p. 644.
- Ointment for burns, scalds, wounds, &c. H. C. Crawford. No. 125,270; Apr. 29; v. 261; p. 953.
- Ointment for certain named affections and diseases. W. H. Whitmore. No. 126,502; Aug. 26; v. 265; p. 631.
- Ointment for certain named ailments. R. P. Rimo. No. 125,711; June 3; v. 263; p. 164.
- Ointment for certain named skin diseases. The Westmoreland Chemical and Color Company. No. 124,627; Feb. 25; v. 259; p. 775.
- Ointment for diseases of the skin. W. Ludden. No. 126,448; Aug. 26; v. 265; p. 629.
- Ointment for eczema, &c. Red-Oint-A Chemical Co. No. 127,867; Dec. 9; v. 269; p. 389.
- Ointment for eczema, cuts, &c. The Bickmore Company. No. 124,665; Mar. 11; v. 260; p. 385.
- Ointment for healing cuts, burns, &c. F. W. Duenckel. No. 126,669; Sept. 30; v. 266; p. 734.
- Ointment for pain in general and rheumatic pains. Myers Remedy Company. No. 124,330; Feb. 4; v. 259; p. 178.
- Ointment for pimples, eruptions, &c. G. E. Gratton. No. 125,289; May 6; v. 262; p. 165.
- Ointment for rheumatism, bronchitis, &c. F. L. Selb. No. 126,208; July 29; v. 264; p. 861.
- Ointment for sores, burns, toilet use, and skin troubles generally. W. W. Barnett. No. 127,321; Nov. 11; v. 268; p. 369.
- Ointment for the scalp and hair. M. J. Callaghan. No. 127,345; Nov. 11; v. 268; p. 370.
- Ointment or salve for skin diseases. J. Nikitas. No. 125,493; May 20; v. 262; p. 476.
- Ointment. Pile. T. E. Connor. No. 127,013; Oct. 21; v. 267; p. 478.
- Oleomargarin. American Butterine Co. No. 126,236; Aug. 19; v. 265; p. 451.
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- Oleomargarin. Miami Butterine Co. No. 126,315; Aug. 19; v. 265; p. 453.
- Oleomargarin. Otto F. Stifel's Union Brewing Company. No. 126,358; Aug. 19; v. 265; p. 454.
- Oleomargarin. Providence Churning Company. No. 127,113; Oct. 21; v. 267; p. 481.
- Oleomargarin. Rock Island Butter Co. No. 124,411; Feb. 11; v. 259; p. 380.
- Oleomargarin. Ed. S. Vall Butterine Co. No. 126,800; Sept. 30; v. 266; p. 738.
- Oleomargarin. Wisconsin Butterine Co. No. 125,376; May 13; v. 262; p. 310.
- Oleomargarin. Wisconsin Butterine Co. No. 127,556; Nov. 11; v. 268; p. 377.
- Onion-seeds, garden-seeds, bulbs, and plants. Everette R. Peacock Co. No. 125,671; June 3; v. 263; p. 163.
- Onions, Dry Bermuda. California Vegetable Union. No. 126,393; Aug. 26; v. 265; p. 627.
- Onions, Fresh. Sawyer & Day. No. 125,585; May 27; v. 262; p. 644.
- Optical goods, eyeglasses and fittings, &c. Inter-State Optical Corporation. No. 124,724; Mar. 11; v. 260; p. 387.
- Orange preserves, grape-fruit preserves, and marmalade. The Commercial Groves Company of Florida. No. 126,830; Oct. 7; v. 267; p. 177.
- Oranges. Tustin Hills Citrus Association. No. 124,166; Jan. 14; v. 258; p. 446.
- Oranges. Tustin Hills Citrus Association. No. 125,003; Apr. 1; v. 261; p. 198.
- Oranges and lemons. La Habra Citrus Association. No. 128,246; Dec. 30; v. 269; p. 881.
- Oranges, Fresh. C. D. Boydston. No. 125,931-932; July 15; v. 264; p. 531.
- Oranges, Fresh. Placencia Mutual Orange Association. No. 124,874; Mar. 18; v. 260; p. 557.
- Oranges, Fresh. Redlands Mutual Orange Company. No. 125,940; July 15; v. 264; p. 531.
- Oranges, Fresh. Santiago Orange Growers Ass'n. No. 128,263; Dec. 30; v. 269; p. 882.
- Oranges, Fresh. A. C. Terwilligar. No. 125,588; May 27; v. 262; p. 644.
- Oranges, grape-fruit, tangerines. Lee & Edwards. No. 124,975; Apr. 1; v. 261; p. 198.
- Organ published monthly. House. The E. L. Patch Company. No. 124,576; Feb. 25; v. 259; p. 773.
- Overalls. Adam H. Bartel Co. No. 127,322; Nov. 11; v. 268; p. 369.
- Overalls. Jellico Clothing Manufacturing Co. No. 126,864; Oct. 7; v. 267; p. 178.
- Overalls. Stern & Riemer. No. 126,092; July 22; v. 264; p. 699.
- Overalls and jackets, Men's. The Glasgow Company. No. 128,239; Dec. 30; v. 269; p. 881.
- Overalls and jumpers. Jellico Clothing Manufacturing Co. No. 125,817; June 17; v. 263; p. 478.
- Overalls and work-clothes. Eloesser-Heynemann Co. No. 124,832; Mar. 18; v. 260; p. 555.
- Overalls, work-pants, and jumpers. Arbetter & Richman. No. 124,919; Mar. 25; v. 260; p. 729.
- Overalls and work-shirts. Havens & Geddes Co. No. 127,411; Nov. 11; v. 268; p. 372.
- Overalls and work-shirts. Zinsmeister Co. No. 125,545; May 20; v. 262; p. 478.
- Overcoatings and suitings, fleece knit linings. James J. Regan Mfg. Co. No. 125,505; May 20; v. 262; p. 476.
- Overcoats and outer suits, Boys', young men's, &c. B. Wiener & Co. No. 127,550; Nov. 11; v. 268; p. 376.
- Overshirts, undershirts, and night-ropes, Men's. Bates Street Shirt Company. No. 126,634; Sept. 30; v. 266; p. 733.
- Oxygen, Electrolytic. The Bardett Oxygen Company. No. 125,399; May 20; v. 262; p. 473.
- Packing. Beldam Packing & Rubber Company. No. 126,128; July 29; v. 264; p. 859.
- Packing, Asbestos. The Goodyear Tire & Rubber Company. No. 126,597; Sept. 23; v. 266; p. 593.
- Packing for piston-rods, &c. J. H. Taylor. No. 125,537; May 20; v. 262; p. 477.
- Pads for therapeutic use, Electrically-heated. Landers, Frary & Clark. No. 124,255; Jan. 28; v. 258; p. 810.
- Pads for therapeutic use, Electrically-heated. Landers, Frary & Clark. No. 124,853; Mar. 18; v. 260; p. 556.
- Pads, Hernia. Plapao Laboratories. No. 124,616; Mar. 4; v. 260; p. 197.
- Paint and calcimine, colors, Wall-. Insulating Materials Company. No. 126,698; Sept. 30; v. 266; p. 735.
- Paint and varnish, Preparation for removing. The Ferrell Chemical Company. No. 126,680; Sept. 30; v. 266; p. 735.
- Paint and varnish, Ready-mixed. William Call Bitmo Company. No. 126,245; Aug. 19; v. 265; p. 451.
- Paint, Cold-water. H. Mallory. No. 128,116; Dec. 23; v. 269; p. 698.
- Paint for graining. W. Elemes. No. 128,053; Dec. 23; v. 269; p. 696.
- Paint, Paste. Western Vulcanizer Manufacturing Company. No. 128,201; Dec. 23; v. 269; p. 701.
- Paint, Ready-mixed. W. M. Scott. No. 125,845; June 17; v. 263; p. 479.
- Paint, Semipaste. J. W. Merriman. No. 124,752; Mar. 11; v. 260; p. 388.
- Paints. Bradley & Vrooman Company. No. 124,867; Feb. 11; v. 259; p. 379.
- Paints. Carpenter-Morton Co. No. 126,649; Sept. 30; v. 266; p. 734.
- Paints. E. I. du Pont de Nemours & Company. No. 126,670; Sept. 30; v. 266; p. 734.
- Paints and painters' materials. G. Sommers & Co. No. 126,785; Sept. 30; v. 266; p. 738.
- Paints and painters' materials, Certain named. American Paint Products Co. No. 124,654; Mar. 11; v. 260; p. 385.
- Paints and painters' material, Certain named. C. R. Cook Paint Company. No. 126,265; Aug. 19; v. 265; p. 452.
- Paints and painters' materials, Certain named. Hampden Paint & Chemical Co. No. 124,306; Feb. 4; v. 259; p. 178.
- Paints and painters' materials, Certain named. H. F. Staples. No. 124,345; Feb. 4; v. 259; p. 179.
- Paints and varnishes. Arco Company. No. 124,861; Feb. 11; v. 259; p. 379.
- Paints and varnishes. Preservative Paint Company. No. 125,836; June 17; v. 263; p. 478.
- Paints and varnishes. R. Raymond. No. 126,197; July 29; v. 264; p. 861.
- Paints and varnishes. Twin City Varnish Co. No. 125,850; June 17; v. 263; p. 479.
- Paints, &c., Certain named. The Star Lubricating Oil Co. No. 125,253; Apr. 22; v. 261; p. 797.
- Paints, Fireproof. Samuel Cabot, Incorporated. No. 124,370; Feb. 11; v. 259; p. 379.
- Paints, Japans, &c. D. Rosensohn. No. 126,201; July 29; v. 264; p. 861.
- Paints, Marine. American Marine Paint Company. No. 125,219; Apr. 22; v. 261; p. 796.
- Paints, Marine. American Marine Paint Company. No. 125,321; May 13; v. 262; p. 309.
- Paints, Mixed. Harland and Little. No. 125,220; Apr. 22; v. 261; p. 796.
- Paints, Oil wall-. William T. Baker, Inc. No. 127,712; Dec. 2; v. 269; p. 185.
- Paints, Ready-mixed. J. C. Harland. No. 126,854; Oct. 7; v. 267; p. 178.
- Paints, Ready-mixed. Tripod Paint Company. No. 128,188; Dec. 23; v. 269; p. 700.
- Paints, varnish, stain. W. M. Boyle Manufacturing Company. No. 127,717; Dec. 2; v. 269; p. 185.
- Paints, varnishes, &c. N. Z. Graves, Incorporated. No. 126,689; Sept. 30; v. 266; p. 735.
- Paints, varnishes, &c. Heystek & Canfield Co. No. 125,740; June 10; v. 263; p. 327.
- Paints, varnishes, &c. Standard Cooper-Bell Co. No. 124,344; Feb. 4; v. 259; p. 179.
- Paints, varnishes. K. R. Sternberg. No. 128,180; Dec. 23; v. 269; p. 700.
- Paints, varnishes, colors, &c. Hazard Lead Works. No. 125,340; May 13; v. 262; p. 309.

- Paints, varnishes, &c., Enamel and oil. Standard Cooper-Bell Co. No. 124,777; Mar. 11; v. 260; p. 389.
- Paints, varnishes, wood-stains, and liquid shellac. F. H. Brown. No. 128,020; Dec. 23; v. 269; p. 695.
- Painters' and decorators' tools and supplies. The Ridgely Trimmer Company. No. 126,342; Aug. 19; v. 265; p. 454.
- Painters' and decorators' tools and supplies. The Ridgely Trimmer Company. No. 127,244; Oct. 28; v. 267; p. 644.
- Painters' and decorators' tools and supplies. The Ridgely Trimmer Company. No. 127,492; Nov. 11; v. 268; p. 375.
- Painters' and decorators' tools and supplies. The Ridgely Trimmer Company. No. 127,672; Nov. 18; v. 268; p. 560.
- Pajamas, nightgowns, rain-coats, &c. McDonald Bros. Co. No. 128,113; Dec. 23; v. 269; p. 698.
- Pallets, spatulas, knives. John Russell Cutlery Company. No. 126,472; Aug. 26; v. 265; p. 630.
- Palliative for venereal diseases and a tissue-builder. O. Flores. No. 125,426; May 20; v. 262; p. 474.
- Pamphlet. National Coal Association. Nos. 124,401-2; Feb. 11; v. 259; p. 380.
- Pamphlet or magazine. Victor Shaw Ring Traveler Co. No. 124,903; Mar. 18; v. 260; p. 358.
- Pamphlets and coupons. Allen and Black. No. 125,379; May 20; v. 262; p. 473.
- Paper and cardboard. Eastern Manufacturing Company. No. 126,270; Aug. 19; v. 265; p. 452.
- Paper and cardboard. Eastern Manufacturing Company. No. 126,673; Sept. 30; v. 266; p. 734.
- Paper and cardboard. Eastern Manufacturing Company. No. 127,227; Oct. 28; v. 267; p. 643.
- Paper and cloth, Abrasive. Manning Abrasive Company. No. 126,451; Aug. 26; v. 265; p. 629.
- Pants and coats, Combined. Neustadter Bros. No. 127,655; Nov. 18; v. 268; p. 559.
- Paper and envelopes. Clement and Stockwell, Inc. No. 128,034; Dec. 23; v. 269; p. 696.
- Paper and envelopes, Writing-. Charles E. Weyand & Co. No. 124,805; Mar. 11; v. 260; p. 390.
- Paper and envelopes, Writing-. National Papeterie Company. No. 124,862; Mar. 18; v. 260; p. 556.
- Paper and envelopes, Printing and writing. National Papeterie Company. No. 125,908; July 8; v. 264; p. 349.
- Paper and paper towels, Toilet-. Wortendyke Manufacturing Company. No. 125,184; Apr. 15; v. 261; p. 627.
- Paper and stationery. S. S. Kresge Co. No. 125,231; Apr. 22; v. 261; p. 796.
- Paper and stationery, Certain named. Duboc Paper Company. No. 125,988; July 22; v. 264; p. 696.
- Paper and stationery, Certain named. W. B. Templeton. No. 125,919; July 8; v. 264; p. 350.
- Paper and stationery supplies, Certain named. Ideal Specialties Manufacturing Corporation. No. 124,543; Feb. 25; v. 259; p. 772.
- Paper bags. Standard Paper Company. No. 126,220; July 19; v. 264; p. 862.
- Paper bags. Victory Bag & Paper Co. Nos. 124,610-19; Feb. 25; v. 259; p. 744.
- Paper bags. Wortendyke Manufacturing Company. No. 126,372; Aug. 19; v. 265; p. 455.
- Paper, bill-heads, &c., Writing-. M. Harris. No. 125,439; May 20; v. 262; p. 475.
- Paper, blank-books, &c. A. Flanagan Company. No. 127,231; Oct. 28; v. 267; p. 643.
- Paper, Carbon-. Kee Lox Manufacturing Company. No. 124,850; Mar. 18; v. 260; p. 556.
- Paper, Carbon-. Kee Lox Manufacturing Company. No. 125,148; Apr. 15; v. 261; p. 626.
- Paper, Carbon-. Remington Typewriter Company. No. 125,509; May 20; v. 262; p. 477.
- Paper, cardboard, &c. Moser Paper Company. No. 126,041; July 22; v. 264; p. 698.
- Paper, cloth, and paper cloth coated with garnet, flint, and emery. Manning Abrasive Co., Inc. No. 127,439; Nov. 11; v. 268; p. 373.
- Paper containers for coffee and the like. National Paper Can Company. No. 124,464; Feb. 18; v. 259; p. 572.
- Paper felt. A. L. Cutler. No. 127,919; Dec. 16; v. 269; p. 541.
- Paper for chemical explosives, Wrapping-. The Chatfield & Woods Company. No. 124,510; Feb. 25; v. 259; p. 771.
- Paper for container-liner. Bogalusa Paper Company. No. 125,894; July 8; v. 264; p. 349.
- Paper on which labels are to be printed, Gummed. Duboc Paper Company. No. 125,631; June 3; v. 263; p. 161.
- Paper or fiber cans, boxes, and cartons. American Can Company. No. 126,120; July 29; v. 264; p. 859.
- Paper or periodical. F. W. Wolf. No. 124,632; Feb. 25; v. 259; p. 775.
- Paper, pads, and tablets, envelopes, &c., Writing-. F. W. Woolworth Co. No. 128,209; Dec. 23; v. 269; p. 701.
- Paper, paper towels and napkins, Toilet-. The John Hoberg Company. No. 125,224; Apr. 22; v. 261; p. 796.
- Paper, Printing-. S. D. Warren Company. Nos. 125,374-5; May 13; v. 262; p. 310.
- Paper, Printing-. S. D. Warren Company. No. 125,548; May 20; v. 262; p. 478.
- Paper, Printing-. S. D. Warren Company. Nos. 125,921-2; July 8; v. 264; p. 350.
- Paper, Printing-. S. D. Warren Company. No. 126,105; July 22; v. 264; p. 700.
- Paper, Printing and writing. American Writing Paper Co. Nos. 126,625-6; Sept. 30; v. 266; p. 733.
- Paper, Printing and writing. National Papeterie Company. No. 124,755; Mar. 11; v. 260; p. 388.
- Paper-pulp spoons. The Daisy Cup Company. No. 125,796; June 17; v. 263; p. 477.
- Paper, Safety-. E. E. Lloyd Paper Co. Nos. 124,739-40; Mar. 11; v. 260; p. 388.
- Paper, Toilet-. Oswego River Paper Mills. No. 125,909; July 8; v. 264; p. 349.
- Paper, Toilet-. Oswego River Paper Mills. No. 126,459; Aug. 26; v. 265; p. 629.
- Paper, Toilet-. Sauquoit Toilet Paper Co. No. 124,342; Feb. 4; v. 259; p. 179.
- Paper, Toilet-. Sauquoit Toilet Paper Co. Nos. 124,413-15; Feb. 11; v. 259; p. 380.
- Paper, Toilet-. Sauquoit Toilet Paper Co. No. 124,765; Mar. 11; v. 260; p. 388.
- Paper towels. Albany Perforated Wrapping Paper Company. No. 126,618; Sept. 30; v. 266; p. 733.
- Paper, Wall-. Becker, Smith & Page. No. 125,392; May 20; v. 262; p. 473.
- Paper with a silver-like coating. Nashua Gummed and Coated Paper Company. No. 125,907; July 8; v. 264; p. 349.
- Paper, Wrapping-. L. K. Mallinckrodt. No. 124,747; Mar. 11; v. 260; p. 388.
- Paper, Writing-. Byron Weston Co. No. 125,896; July 8; v. 264; p. 349.
- Paper, Writing-. Eastern Manufacturing Company. No. 124,378; Feb. 11; v. 259; p. 379.
- Paper, Writing-. Fox River Paper Co. No. 125,135; Apr. 15; v. 261; p. 625.
- Paper, Writing-. Fox River Paper Co. No. 128,238; Dec. 30; v. 269; p. 881.
- Paper, Writing-. United Drug Company. No. 126,100; July 22; v. 264; p. 699.
- Papers, Writing and printing. Beekman Paper and Card Company. No. 124,663; Mar. 11; v. 260; p. 385.
- Paper, Writing and printing. Charles Drury Jacobs. No. 126,296; Aug. 19; v. 265; p. 453.
- Paper, Writing and printing. The Whitaker Paper Company. No. 126,501; Aug. 26; v. 265; p. 631.
- Paper, Writing, news-print, wrapping. Arrowhead Mills. No. 126,632; Sept. 30; v. 266; p. 733.
- Paper, Writing, printing, &c. Auer & Twitchell. No. 125,700; June 3; v. 263; p. 164.
- Papers, Etchable coated, &c. J. Miln. No. 126,727; Sept. 30; v. 266; p. 736.
- Papers, Printing-. Whiting-Plover Paper Company. No. 124,178; Jan. 14; v. 258; p. 446.
- Papers, Wall-. B. Buchbinder. No. 126,646; Sept. 30; v. 266; p. 734.
- Papers, Writing-. Reese & Reese. No. 126,756; Sept. 30; v. 266; p. 737.
- Papers, Writing, printing, &c. Parsons & Whittemore. No. 124,574; Feb. 25; v. 259; p. 773.
- Parasol and umbrella tips, handles, &c. Celluloid Company. Nos. 126,257-9; Aug. 19; v. 265; p. 451.
- Partitions, Metal. Henry Weiss Manufacturing Company. No. 128,200; Dec. 23; v. 269; p. 701.
- Paste, Adhesive. S. E. Brick. No. 125,777; June 17; v. 263; p. 477.
- Paste preparations for nourishing the skin, skin-balms, and beautifiers, &c. La Ford Chemical Co. No. 124,734; Mar. 11; v. 260; p. 387.
- Patches, Fabric and rubber repair-. Las-Stik Patch Mfg. Co. No. 128,098; Dec. 23; v. 269; p. 698.
- Patterns, Dress-. The Pictorial Review Company. No. 127,110; Oct. 21; v. 267; p. 481.
- Peaches, plums, grapes, Fresh. California Fruit Exchange. No. 124,818; Mar. 18; v. 260; p. 555.
- Peanut-bar. W. C. Gagnon. No. 125,428; May 20; v. 262; p. 474.
- Peanut-butter. William T. Mullikin Company. No. 124,980; Apr. 1; v. 261; p. 198.
- Peanut-butter. Marston and Martin. No. 125,351; May 13; v. 262; p. 310.
- Peanut-butter. Price Booker Mfg. Co. No. 126,753; Sept. 30; v. 266; p. 737.
- Peanut-butter, prepared mustard, and food-flavoring extracts. Russell Jobbers Mills. No. 127,875; Dec. 9; v. 269; p. 389.
- Pearls and pearl necklaces, precious, &c., stones. L. Heller & Son. No. 127,237; Oct. 28; v. 267; p. 644.
- Pearls, Imitation. J. H. Stone. No. 124,779; Mar. 11; v. 260; p. 389.
- Pearls, Imitation. J. Wolf. No. 128,208; Dec. 23; v. 269; p. 701.
- Pen nibs and points, pens, stationers' sundries, Hinks Wells & Co. No. 124,538; Feb. 25; v. 259; p. 772.
- Pen-points. The Kempshall Supply Company. No. 124,199; Jan. 21; v. 258; p. 641.



## Alphabetical list of trade-marks—Continued.

- Pens and lead-pencils, Parts of fountain and stylographic. A. T. Cross Pencil Co. No. 127,221; Oct. 28; v. 267; p. 643.
- Pens and pen-points, Stylographic and fountain. Hinks Wells & Co. No. 124,455; Feb. 18; v. 259; p. 571.
- Pens, Fountain-. Adams, Cushing & Foster. No. 125,378; May 20; v. 262; p. 473.
- Pens, Fountain-. Jiffy Pen Company. No. 126,703; Sept. 30; v. 266; p. 735.
- Pens, Steel. G. W. Hughes. No. 125,904; July 8; v. 264; p. 349.
- Pencil leads, Mechanical. The Wahl Company. No. 125,547; May 20; v. 262; p. 478.
- Pencils and leads therefor, Refillable. C. R. Keeran. No. 125,149; Apr. 15; v. 261; p. 626.
- Pencils, crayon-chalk, crayons. American Lead Pencil Company. No. 126,621; Sept. 30; v. 266; p. 733.
- Pencils, chalk, crayons, Lead and drawing. American Lead Pencil Company. No. 125,890; July 8; v. 264; p. 349.
- Pencils, Lead-. American Lead Pencil Company. No. 125,889; July 8; v. 264; p. 349.
- Pencils, penholders, Lead-. Eagle Pencil Company. No. 126,269; Aug. 19; v. 265; p. 452.
- Penholders. American Lead Pencil Company. No. 126,622; Sept. 30; v. 266; p. 733.
- Percolators, chafing-dishes, &c. Electric coffee. American Cutlery Company. No. 127,307; Nov. 11; v. 268; p. 369.
- Percolators, Coffee. L. V. Donovan. No. 127,821; Dec. 9; v. 269; p. 387.
- Perfume. J. L. Grossmith. No. 125,290; May 6; v. 262; p. 165.
- Perfume-bases, flower-oils, &c. Van Dyk & Co. No. 127,696; Nov. 18; v. 268; p. 561.
- Perfumes. Frederick Stearns & Co. No. 128,179; Dec. 23; v. 269; p. 700.
- Perfumes. F. K. Smith. No. 126,483; Aug. 26; v. 265; p. 630.
- Perfumes. Yardley & Co. Nos. 124,183-4; Jan. 14; v. 258; p. 446.
- Perfumes. Yardley & Co. No. 124,807; Mar. 11; v. 260; p. 390.
- Perfumes and toilet waters. The Andrew Jergens Company. No. 127,424; Nov. 11; v. 268; p. 372.
- Perfumes, talcum and face powders, and face-creams. Frederick Stearns & Co. No. 126,787; Sept. 30; v. 266; p. 738.
- Perfumes, toilet water, face-powder, &c. Alfred Wright, Inc. No. 125,859; June 17; v. 263; p. 479.
- Perfumes, toilet waters and creams, talcum and face powder. American Drug & Press Association. No. 127,573; Nov. 18; v. 268; p. 557.
- Perfumes, toilet waters, face-powders, sachets. Southland Perfume Company. No. 125,526; May 20; v. 262; p. 477.
- Perfumery. G. J. Block. No. 126,642; Sept. 30; v. 266; p. 733.
- Perfumery. Dormand & Diaz. No. 127,731; Dec. 2; v. 269; p. 185.
- Perfumery. Lundborg Company. No. 125,349; May 13; v. 262; p. 310.
- Perfumery. United Drug Company. Nos. 126,495-6; Aug. 26; v. 265; p. 630.
- Perfumery, toilet water, &c. Jennings Manufacturing Company. Nos. 127,752-3; Dec. 2; v. 269; p. 186.
- Perfumery, toilet water, sachet-powder. Baldwin Perfumery Company, The. No. 125,928; July 15; v. 264; p. 531.
- Periodical. International Harvester Company of America. Nos. 127,955-7; Dec. 16; v. 269; p. 542.
- Periodical. Monthly. General Appraisal Company. No. 126,006; July 22; v. 264; p. 696.
- Periodical. Monthly. H. J. Miller. No. 127,093; Oct. 21; v. 267; p. 480.
- Periodical. Monthly. L. M. Smith. No. 124,892; Mar. 18; v. 260; p. 557.
- Periodical. Quarterly. Moline Plow Company. No. 125,477; May 20; v. 262; p. 476.
- Periodicals. Thomas A. Edison, Incorporated. No. 124,444; Feb. 18; v. 259; p. 571.
- Periodicals. Monthly. The Engineering Magazine Company. No. 125,635; June 3; v. 263; p. 162.
- Periodicals. Monthly. The Holt Manufacturing Company. No. 127,840; Dec. 9; v. 269; p. 388.
- Periodical. Monthly. Treat, Em. Rough Publishing Co. No. 127,890; Dec. 9; v. 269; p. 389.
- Periodicals. Semimonthly. Contracting Publishing Corporation. No. 125,408; May 20; v. 262; p. 474.
- Petrolatum and petroleum jelly. The Texas Company No. 127,148; Oct. 21; v. 267; p. 482.
- Petroleum, animal, and vegetable products. J. H. Morris. No. 127,970; Dec. 16; v. 269; p. 543.
- Petroleum, kerosene, benzine, &c. De Bataafsche Petroleum Maatschappij. No. 124,687; Mar. 11; v. 260; p. 386.
- Petroleum products. American Pacific Co. No. 124,281; Feb. 4; v. 259; p. 177.
- Petroleum products. C. H. Shappell. No. 125,364; May 13; v. 262; p. 310.
- Petroleum products. Texas Company. No. 127,518; Nov. 11; v. 268; p. 375.
- Petroleum products. Warren Oil Company of Pennsylvania. No. 127,540; Nov. 11; v. 268; p. 376.
- Petroleum products. White Star Refining Co. No. 127,549; Nov. 11; v. 268; p. 376.
- Petroleum products, lubricating-oils. Texas Company. Nos. 128,185-6; Dec. 23; v. 269; p. 700.
- Petticoats. Burton Bros. & Co. No. 126,824; Oct. 7; v. 267; p. 177.
- Petticoats. G. Sperling. No. 127,515; Nov. 11; v. 268; p. 375.
- Pharmaceutical and biological preparations. The Abbott Laboratories. No. 127,803; Dec. 9; v. 269; p. 387.
- Pharmaceutical preparation. J. J. McNulty, M. D. No. 124,397; Feb. 11; v. 259; p. 380.
- Pharmaceutical preparation. Nelson, Baker & Co. No. 125,923; July 8; v. 264; p. 350.
- Pharmaceutical preparation. Voigt & Co. No. 127,892; Dec. 9; v. 269; p. 389.
- Pharmaceutical preparation for general debility, &c. J. Bourazanis. No. 125,719; June 10; v. 263; p. 327.
- Pharmaceutical preparations. Graf Bros. No. 127,048; Oct. 21; v. 267; p. 479.
- Pharmaceutical preparations. T. W. Oppermann. No. 126,736; Sept. 30; v. 266; p. 736.
- Pharmaceutical preparations. S. Stevens. No. 127,205; Oct. 21; v. 267; p. 484.
- Pharmaceutical preparations, Certain named. Lloyd Brothers. No. 124,636; Mar. 4; v. 260; p. 197.
- Pharmaceutical preparations for the treatment of certain named diseases. J. W. Gillespie. No. 124,828; Mar. 18; v. 260; p. 555.
- Pharmaceutical preparations for toilet purposes, Certain named. Enterprise Chemical Co. No. 126,152; July 29; v. 264; p. 860.
- Pharmaceutical preparations for toilet use, Certain named. E. Banks. No. 125,389; May 20; v. 262; p. 473.
- Pharmaceutical product. Society of Chemical Industry in Basle. No. 126,088; July 22; v. 264; p. 699.
- Pharmaceutical products, Certain named. Lloyd Brothers. No. 124,640; Mar. 4; v. 260; p. 197.
- Phonograph-needles. Torrington Company. No. 127,693; Nov. 18; v. 268; p. 560.
- Phonograph-needles. R. C. Wade Co. No. 128,195; Dec. 23; v. 269; p. 700.
- Phonograph-records. Electric Phonograph Corporation. No. 124,088; Jan. 14; v. 258; p. 443.
- Phonographs. Cupples Company. No. 128,039; Dec. 23; v. 269; p. 696.
- Phonographs. The Durable Phonograph Company. No. 126,840; Oct. 7; v. 267; p. 177.
- Phonographs. Charles H. Elting & Company. No. 127,034; Oct. 21; v. 267; p. 478.
- Phonographs. W. W. Kimball Company. No. 124,851; Mar. 18; v. 260; p. 556.
- Phonographs. L. J. O'Riley. No. 127,657; Nov. 18; v. 268; p. 559.
- Phonographs. Pathe Freres Phonograph Company. No. 127,108; Oct. 21; v. 267; p. 481.
- Phonographs. W. M. Shlaes. No. 127,683; Nov. 18; v. 268; p. 560.
- Phonographs. The Starr Piano Company. No. 126,488; Aug. 26; v. 265; p. 630.
- Phonographs. The Tabe-A-Nola Phonograph Company. No. 127,147; Oct. 21; v. 267; p. 482.
- Phonographs. Thomas A. Edison, Incorporated. No. 128,049; Dec. 23; v. 269; p. 696.
- Phonographs and phonograph-records. Colonial Phonograph Co. No. 125,129; Apr. 15; v. 261; p. 625.
- Phonographs. Cabinet. Music Master Co. No. 126,321; Aug. 19; v. 265; p. 453.
- Phonographs, records, sound-boxes, &c. The Starr Piano Company. No. 126,968; Oct. 14; v. 267; p. 336.
- Phonographically-recorded talk or conversation, Blanks or forms on which to inscribe. Thomas A. Edison, Incorporated. No. 125,634; June 3; v. 263; p. 162.
- Photographic chemical. Ele-Kem Company. No. 126,675; Sept. 30; v. 266; p. 734.
- Photographic dry plates and films. G. Cramer Dry Plate Company. No. 127,366; Nov. 11; v. 268; p. 371.
- Photographic mounts for holding X-Ray films and photographic reproductions thereof. Comparative X-Ray Company. No. 126,661; Sept. 30; v. 266; p. 734.
- Photographic-printing frames. Eastman Kodak Co. No. 127,029; Oct. 21; v. 267; p. 478.
- Photographic supplies and accessories, Certain named. Eastman Kodak Company. No. 124,299-300; Feb. 4; v. 259; p. 177.
- Photographs and pictures. Eastland Studios. No. 125,990; July 22; v. 264; p. 696.
- Piano-polish. J. Hardy. No. 125,738; June 10; v. 263; p. 327.
- Pianos. Lester Piano Company. No. 127,433; Nov. 11; v. 268; p. 373.
- Pianos. Morrison Waters Piano Company. No. 127,642; Nov. 18; v. 268; p. 559.
- Pianos. W. H. Paling and Co. No. 124,333; Feb. 4; v. 259; p. 178.
- Pianos and piano-players. Pease Piano Co. No. 125,357; May 13; v. 262; p. 310.
- Pianos and player-pianos. C. E. Bellak. No. 125,394; May 20; v. 262; p. 473.

- Pianos, player-pianos, and attachments thereto. A. M. Steinert. No. 124,594; Feb. 25; v. 259; p. 774.
- Pianos, player-pianos, player-actions. Gulbransen-Dickinson Co. No. 125,053; Apr. 8; v. 261; p. 406.
- Pianos, player-pianos, talking-machines. Thompson Piano Manufacturing Co. No. 124,209; Jan. 21; v. 258; p. 641.
- Pickle, Mixed. H. Shivers. No. 127,684; Nov. 18; v. 268; p. 560.
- Pickles, apple-butter, mince-meat, etc. Franklin Mac Veagh and Company. No. 125,934; July 15; v. 264; p. 531.
- Picture films, Motion-. California Packing Corporation. No. 124,955; Apr. 1; v. 261; p. 197.
- Picture films, Motion-. Helen Keller Film Corporation. No. 126,705; Sept. 30; v. 266; p. 735.
- Picture films, Motion-. Prizma, Incorporated. No. 126,956; Oct. 14; v. 267; p. 336.
- Picture films, Motion-. Romayne Super-Film Company. No. 125,841; June 17; v. 263; p. 479.
- Picture films, Motion-. Rothacker Film Mfg. Co. No. 125,759; June 10; v. 263; p. 328.
- Picture films, Motion-. Rothacker Film Mfg. Co. No. 125,842; June 17; v. 263; p. 479.
- Picture machines, Motion-. C. J. Peterson. No. 124,760; Mar. 11; v. 260; p. 388.
- Picture-projecting machines and parts thereof, Motion-. Educational Motion Picture Machine and Film Company. Nos. 127,030-1; Oct. 21; v. 267; p. 478.
- Picture-projecting machines and parts thereof, Motion-. The Pathscope Co. of America. No. 126,568; Sept. 16; v. 266; p. 446.
- Piece goods. The Cellular Clothing Co. No. 124,509; Feb. 25; v. 259; p. 771.
- Piece goods. Finch, Van Slyck & McConville. No. 127,933; Dec. 16; v. 269; p. 542.
- Piece goods. Leshner, Whitman & Co. No. 126,308; Aug. 19; v. 265; p. 453.
- Piece goods. Leshner, Whitman & Co. No. 127,963; Dec. 16; v. 269; p. 543.
- Piece goods. Schwarzenbach-Huber Company. No. 127,499; Nov. 11; v. 268; p. 375.
- Piece goods, Certain named. Leshner, Whitman & Co. No. 126,557; Sept. 16; v. 266; p. 446.
- Pill for pulmonary tuberculosis. A. Beugel. No. 125,020; Apr. 8; v. 261; p. 405.
- Pill for treatment of liver, &c., Laxative and cathartic. J. L. Farnum. No. 127,390; Nov. 11; v. 268; p. 371.
- Pills. A. Brown. No. 126,645; Sept. 30; v. 266; p. 733.
- Pills, Dyspepsia-. J. J. Honecker. No. 127,746; Dec. 2; v. 269; p. 186.
- Pills, Laxative. T. Rosa. No. 126,068; July 22; v. 264; p. 698.
- Pillows. Marshall Field & Company. No. 124,561; Feb. 25; v. 259; p. 773.
- Pins. R. C. Dick. No. 125,899; July 8; v. 264; p. 349.
- Pins and snap-fasteners, Safety and toilet. De Long Hook and Eye Company. No. 127,374; Nov. 11; v. 268; p. 371.
- Pins, fobs, &c., Service, scarf, bar, and brooch. Eisenstadt Manufacturing Company. No. 125,421; May 20; v. 262; p. 474.
- Pipe and boiler coverings. American Insulation Company. No. 124,185; Jan. 21; v. 258; p. 641.
- Pipe-covering and boiler and locomotive lagging, Sectional magnesia. National Magnesia Manufacturing Company. No. 127,771; Dec. 2; v. 269; p. 187.
- Pipe-fittings. Essex Foundry. No. 126,677; Sept. 30; v. 266; p. 734.
- Pipes, cigar and cigarette holders, Smokers'. Kaufmann Bros. & Bondy. No. 125,820; June 17; v. 263; p. 478.
- Pipes, Fluid-supply. H. Mueller Manufacturing Co. No. 126,563; Sept. 16; v. 266; p. 446.
- Pipes, Smokers'. W. P. Dunham. Nos. 124,192-5; Jan. 21; v. 258; p. 641.
- Pipes, Tobacco-. Societe Anonyme "La Bruyere." No. 126,784; Sept. 30; v. 266; p. 738.
- Pipes, Tobacco-. Societe Anonyme "La Bruyere." No. 127,138; Oct. 21; v. 267; p. 482.
- Pipes, Tobacco-. L. Suedmeyer. No. 127,146; Oct. 21; v. 267; p. 482.
- Pistols, rifles, machine, submarine, and naval guns, magazines, and bayonets. Auto-Ordnance Corporation. No. 128,002; Dec. 23; v. 269; p. 695.
- Piston and packing rings and compression-rings for engines, Metallic. H. W. Kochler. No. 124,728; Mar. 11; v. 260; p. 387.
- Piston-rings. Automobile Accessories Co. No. 126,513; Sept. 16; v. 266; p. 445.
- Piston-rings. Automotive Specialties Co. No. 125,325; May 13; v. 262; p. 309.
- Pistons for engines. Marvel Machinery Company. No. 127,086; Oct. 21; v. 267; p. 480.
- Planes and lathe-chucks, &c., Carpenters'. Union Manufacturing Company. No. 125,852; June 17; v. 263; p. 479.
- Plant and tree protectors. A. B. Cowles. No. 127,218; Oct. 28; v. 267; p. 643.
- Plaster, Medicinal. Pneumo-Phthisine Chemical Company. No. 126,466; Aug. 26; v. 265; p. 630.
- Plaster of Paris for dental, &c., purposes. H. B. Wiggins Sons Company. No. 126,371; Aug. 19; v. 265; p. 455.
- Plaster, Wall-. Geo. W. Pack & Son. No. 125,670; June 3; v. 263; p. 163.
- Plasters, Corn-. The Deane Plaster Co. No. 125,037; Apr. 8; v. 261; p. 405.
- Plasters, Corn-. S. A. P. Munn, Jr. No. 126,602; Sept. 23; v. 266; p. 593.
- Plasters, Medicinal. Johnson & Johnson. No. 126,024; July 22; v. 264; p. 697.
- Plastic synthetic compound comprising a phenolic condensation product. Redmanol Chemical Products Co. No. 124,149; Jan. 14; v. 258; p. 445.
- Plated or precious-metal articles, Certain named. R & G Co. No. 124,878; Mar. 18; v. 260; p. 557.
- Player-piano tone-controlling attachment. Soloelle Co. No. 125,524; May 20; v. 262; p. 477.
- Pliers, nippers, wire-cutters, punches, &c. William Schollhorn Company. No. 127,553; Nov. 11; v. 268; p. 377.
- Plows. Lynchburg Foundry Company. No. 126,944; Oct. 14; v. 267; p. 336.
- Plugs, Electric. C. E. Treat. No. 126,099; July 22; v. 264; p. 699.
- Plushes. L. Roessel & Co. No. 126,067; July 22; v. 264; p. 698.
- Plushes. L. Roessel & Co. No. 126,200; July 29; v. 264; p. 861.
- Poison for squirrels, prairie-dogs, and gophers. Leo Shapiro & Co. No. 126,777; Sept. 30; v. 266; p. 738.
- Polish, Finger-nail. J. J. Wittwer & Co. No. 127,801; Dec. 2; v. 269; p. 188.
- Polish for automobiles, furniture, and floors. M. F. Castine. No. 128,027; Dec. 23; v. 269; p. 695.
- Polishing and cleaning liquid. L. A. Block. No. 126,249; Aug. 19; v. 265; p. 451.
- Popcorn. H. A. Kesting. No. 125,746; June 10; v. 263; p. 328.
- Popcorn, Candied. The United States Corn Confection Company. No. 124,797; Mar. 11; v. 260; p. 389.
- Popcorn, unpopped. The Churchill Grain & Seed Co. No. 128,228; Dec. 30; v. 269; p. 881.
- Porcelain ware. Den Krongelige Porcelainsfabrik. No. 125,799; June 17; v. 263; p. 477.
- Pork. Kohrs Packing Company. No. 126,709; Sept. 30; v. 266; p. 735.
- Pork and beans, fruits, salmon, Canned. H. T. Lange Company. No. 127,759; Dec. 2; v. 269; p. 186.
- Pork, sausage, and lard. S. S. Price. No. 125,878; June 24; v. 263; p. 631.
- Potato chips. W. Croft. No. 126,268; Aug. 19; v. 265; p. 452.
- Potato chips. L. A. Warshaw. No. 125,261; Apr. 22; v. 261; p. 797.
- Potatoes. Loesch Brothers. No. 124,117; Jan. 14; v. 258; p. 444.
- Poultry, Dressed. S. H. Grinstead Co. No. 124,845; Mar. 18; v. 260; p. 556.
- Poultry, Dressed. H. S. Rhynsbarger. No. 124,990; Apr. 1; v. 261; p. 198.
- Poultry, Dressed. H. S. Rhynsbarger. No. 127,782; Dec. 2; v. 269; p. 187.
- Poultry-fountains and brood-coops. Hartman Company. No. 128,079; Dec. 23; v. 269; p. 697.
- Poultry fresh from the shell, Live. C. J. Bolgiano. No. 127,175; Oct. 21; v. 267; p. 483.
- Powder and cream, face-powder compacts, rouge, cold-cream, Face. Josephine Le Fevre Company. No. 124,396; Feb. 11; v. 259; p. 380.
- Powder and cream, toilet water, &c., Complexion. The De Pree Chemical Company. No. 126,838; Oct. 7; v. 268; p. 177.
- Powder, Baking-. Ennis-Hanly-Blackburn Coffee Co. No. 127,737; Dec. 2; v. 269; p. 186.
- Powder, Bug and insect. R. H. Welden. No. 127,546; Nov. 11; v. 268; p. 376.
- Powder, Dentifrice and talcum. Peninsular Chemical Co. Nos. 126,748-9; Sept. 30; v. 266; p. 737.
- Powder, Face-. A. Bourjois & Co. No. 124,287; Feb. 4; v. 259; p. 177.
- Powder, Face-. A. Bourjois & Co. No. 125,930; July 15; v. 264; p. 531.
- Powder, Face-. The Palmolive Company. No. 126,742; Sept. 30; v. 266; p. 737.
- Powder, Face-. Primo Products Company. No. 125,247; Apr. 22; v. 261; p. 796.
- Powder, Healing-. J. A. Thorpe. No. 127,251; Oct. 28; v. 267; p. 644.
- Powder, Insect-. Heekin Company. No. 127,745; Dec. 2; v. 269; p. 186.
- Powder pads and puffs. F. R. Arnold. No. 127,315; Nov. 11; v. 268; p. 369.
- Powder-puffs. Atterley Company. No. 126,380; Aug. 26; v. 265; p. 627.
- Powder-puffs. B. H. Karmen. No. 126,940; Oct. 14; v. 267; p. 335.
- Powder, Talcum. Agra Company, The. No. 125,924; July 15; v. 264; p. 531.
- Powder, Talcum. Associated Pharmacists. No. 125,955; July 22; v. 264; p. 695.
- Powder, Talcum. F. N. Lewis. No. 125,461; May 20; v. 262; p. 475.
- Powder to be applied to a razor strop, hone, or sharpener. R. Nelson. No. 124,204; Jan. 21; v. 258; p. 641.



## Alphabetical list of trade-marks—Continued.

- Powder, Toilet. Lodi Corporations. No. 126,943; Oct. 14; v. 267; p. 336.
- Powder, Toilet. The New York Shield Company. No. 124,983; Apr. 1; v. 261; p. 198.
- Powder, Toilet. The Palmolive Company. Nos. 126,740-1; Sept. 30; v. 266; p. 736.
- Powder, Toilet and bath. Pacific Coast Borax Company. No. 126,461; Aug. 26; v. 265; p. 629.
- Powder, Tooth-. Sherwin Shapira Chemical Co. No. 124,590; Feb. 25; v. 259; p. 773.
- Powders and cold-cream, Face-. Colgate & Co. No. 124,373; Feb. 11; v. 259; p. 379.
- Powders and creams, Toilet. Maricatte et Cie. No. 127,636; Nov. 18; v. 268; p. 559.
- Powders, Antiseptic. J. S. Tyree, chemist. No. 127,796; Dec. 2; v. 269; p. 187.
- Powders, Face-. Julius Schmid Incorporated. Nos. 126,077-8; July 22; v. 264; p. 699.
- Powders, Face and talcum. Peninsula Chemical Co. No. 126,463; Aug. 26; v. 265; p. 629.
- Powders, Lip-rouge, brow-pencils, Face-. W. V. Loveland. No. 127,764; Dec. 2; v. 269; p. 186.
- Powders, Toilet. The Palmolive Company. No. 126,462; Aug. 26; v. 265; p. 629.
- Precious-metal articles, Certain named. W. Suckling & Sons. No. 124,159; Jan. 14; v. 258; p. 446.
- Precious stones. J. J. Felsenfeld. No. 127,040; Oct. 21; v. 267; p. 479.
- Preparation for alleviating whooping-cough. W. A. Meighen. No. 124,563; Feb. 25; v. 259; p. 773.
- Preparation for certain named ailments and diseases. M. P. Kassman. No. 125,745; June 10; v. 263; p. 328.
- Preparation for certain named ailments, and liniment. O. Hunsaker. No. 125,225; Apr. 22; v. 261; p. 796.
- Preparation for colds and pains caused by colds. C. F. Eha. No. 124,379; Feb. 11; v. 259; p. 379.
- Preparation for coughs and colds. B. N. Andrews. No. 124,498; Feb. 25; v. 259; p. 771.
- Preparation for coughs, colds, &c. R. E. Taylor. No. 127,793; Dec. 2; v. 269; p. 187.
- Preparation for dandruff and for scalp treatment. C. C. Scholberg. No. 126,776; Sept. 30; v. 266; p. 738.
- Preparation for destroying pests that are injurious to cotton and other growing crops. L. Ward. No. 125,181; Apr. 15; v. 261; p. 627.
- Preparation for destroying rats, bedbugs, &c. Common Sense Manufacturing Co. No. 126,263; Aug. 19; v. 265; p. 452.
- Preparation for destroying worms of horses, &c., poultry prescription, &c. Dr. L. D. Le Gear Medicine Co. No. 126,444; Aug. 26; v. 265; p. 629.
- Preparation for eczema, ointment for skin diseases, blood-purifier. Barlow Chemical Company. No. 125,391; May 20; v. 262; p. 473.
- Preparation for excessive perspiration, &c. E. E. Kuhn. No. 127,757; Dec. 2; v. 269; p. 186.
- Preparation for imparting flexibility to the hair. B. O. Wilkins. No. 124,630; Feb. 25; v. 259; p. 775.
- Preparation for influenza, &c. Dr. T. J. Haile & Company. No. 126,428; Aug. 26; v. 265; p. 628.
- Preparation for lumbago, &c. J. O. Jones. No. 124,392; Feb. 11; v. 259; p. 380.
- Preparation for preventing perspiration. W. Vilchik. No. 124,621; Feb. 25; v. 259; p. 774.
- Preparation for promoting growth of the hair. M. Pearis. No. 125,356; May 13; v. 262; p. 310.
- Preparation for pulmonary troubles, &c. Creolina Chemical Company. No. 127,180; Oct. 21; v. 267; p. 483.
- Preparation for purifying gasoline and increasing its efficiency. Sealer Distributing Company. No. 125,516; May 20; v. 262; p. 477.
- Preparation for removing tar, asphalt, oil, and grease. Polygon Products Co. No. 124,579; Feb. 25; v. 259; p. 773.
- Preparation for rheumatism. A. Bridier. No. 125,192; Apr. 22; v. 261; p. 795.
- Preparation for scalp-tonic, menthol cream, hair-tonic, mange remedy. Barlow Chemical Company. No. 125,123; Apr. 15; v. 261; p. 625.
- Preparation for sore throat, tonsillitis, &c. F. P. Saleme. No. 126,073; July 22; v. 264; p. 699.
- Preparation for the alleviation of consumption, &c. T. Kotlar. No. 126,029; July 22; v. 264; p. 697.
- Preparation for the alleviation of coughs. R. C. Cleveland. No. 126,659; Sept. 30; v. 266; p. 734.
- Preparation for the relief of excessive perspiration. Youth Craft Co. No. 126,117; July 22; v. 264; p. 700.
- Preparation for the relief of the odor of perspiration. J. Cave. No. 124,085; Jan. 14; v. 258; p. 443.
- Preparation for the treatment of all lung troubles, &c. M. L. Austin. No. 126,381; Aug. 26; v. 265; p. 627.
- Preparation for the treatment of catarrh. F. C. Slagle. No. 127,878; Dec. 9; v. 269; p. 389.
- Preparation for the treatment of certain named ailments. P. Caradonna. No. 125,125; Apr. 15; v. 261; p. 625.
- Preparation for the treatment of certain named ailments. A. Dinovo. No. 125,207; Apr. 22; v. 261; p. 795.
- Preparation for the treatment of certain named diseases. W. J. Quinn, Jr. No. 125,248; Apr. 22; v. 261; p. 797.
- Preparation for the treatment of chapped hands and lips, cuts, &c. A. F. Severson. No. 126,899; Oct. 7; v. 267; p. 179.
- Preparation for the treatment of chills, fever, rheumatism, &c. M. F. Boquette. No. 127,997; Oct. 21; v. 267; p. 477.
- Preparation for the treatment of excessive perspiration. Nyal Company. No. 124,570; Feb. 25; v. 259; p. 773.
- Preparation for the treatment of foot diseases. H. A. Groth. No. 124,634; Mar. 4; v. 260; p. 197.
- Preparation for the treatment of hay-fever and an eye-wash. S. A. McKibbin. No. 127,241; Oct. 28; v. 267; p. 644.
- Preparation for the treatment of influenza. C. Herzog. No. 126,012; July 22; v. 264; p. 697.
- Preparation for the treatment of neuralgia, headache, backache, biliousness. E. H. Pitts. No. 124,144; Jan. 14; v. 258; p. 445.
- Preparation for the treatment of pyorrhea. H. G. Fitzgerald. No. 126,157; July 29; v. 264; p. 860.
- Preparation for the treatment of pyorrhea and kindred diseases. Harms, Wrasse Company. No. 124,382; Feb. 11; v. 259; p. 379.
- Preparation for the treatment of rheumatism. The Intravenous Products Company. No. 124,387; Feb. 11; v. 259; p. 380.
- Preparation for the treatment of varicose veins. The Intravenous Products Company. No. 124,388; Feb. 11; v. 259; p. 380.
- Preparation for treating stomach and liver troubles. L. Turan. No. 126,796; Sept. 30; v. 266; p. 738.
- Preparation for treating the skin, hair, and scalp. A. Haschka. No. 124,536; Feb. 25; v. 259; p. 772.
- Preparation for treating venereal diseases. Curtis Pharmaceutical Company. No. 127,597; Nov. 18; v. 268; p. 557.
- Preparation for treatment of asthma. L. H. McMillan. No. 127,634; Nov. 18; v. 268; p. 559.
- Preparation for treatment of asthma, &c. J. S. Alphonsus. No. 125,014; Apr. 8; v. 261; p. 405.
- Preparation for treatment of coal-ashes. C. E. Fessenden. No. 125,424; May 20; v. 262; p. 474.
- Preparation for treatment of gout and rheumatism. E. Bejean. No. 127,326; Nov. 11; v. 268; p. 369.
- Preparation for treatment of headache. C. H. Wilson and R. F. Holland. No. 128,205; Dec. 23; v. 269; p. 701.
- Preparation for treatment of headache, backache, &c. G. G. Dillow. No. 127,598; Nov. 18; v. 268; p. 557.
- Preparation for treatment of lung and throat affections. J. C. Ayer Co. No. 126,386; Aug. 26; v. 265; p. 627.
- Preparation for treatment of piles. J. W. Winfield. No. 127,896; Dec. 9; v. 269; p. 390.
- Preparation for treatment of rheumatism and kidney disorders. Finke and Johnson. No. 126,004; July 22; v. 264; p. 696.
- Preparation for treatment of rheumatism, asthma, swellings, sprains, and bruises. Omega Chemical Company. No. 127,775; Dec. 2; v. 269; p. 187.
- Preparation for treatment of stomach troubles. Mag-Rhu Company. No. 125,074; Apr. 8; v. 261; p. 407.
- Preparation for treatment of tan, sunburn, freckles, etc. W. W. Beitenman. No. 125,929; July 15; v. 264; p. 531.
- Preparation for treatment of the bladder and kidneys. Marvel Products Co. No. 124,562; Feb. 25; v. 259; p. 773.
- Preparation for treatment of the hair. S. A. Berkley. No. 124,950; Apr. 1; v. 261; p. 197.
- Preparation for treatment of the hair and scalp. P. E. Meadows. No. 125,352; May 13; v. 262; p. 310.
- Preparation for tuberculosis, asthma, &c. Mrs. A. C. Snider. No. 124,775; Mar. 11; v. 260; p. 389.
- Preparation for use as a boiler-scale cleaner and preventive. Metlskin Co. No. 125,577; May 27; v. 262; p. 643.
- Preparation for use in treatment of bloat in cattle. A. J. Lofton. No. 125,070; Apr. 8; v. 261; p. 406.
- Preparation or oil for stuffing and dressing leather. C. A. Spencer & Son Company. No. 124,155; Jan. 14; v. 258; p. 445.
- Preparation to correct an acid condition of the stomach. M. F. Pratt. No. 127,666; Nov. 18; v. 268; p. 560.
- Preparation to kill lice. Burrell-Dugger Co. No. 126,647; Sept. 30; v. 266; p. 734.
- Preparation used as a remedy for certain named diseases. C. W. Lewis. No. 127,849; Dec. 9; v. 269; p. 388.
- Preparation used as a tonic and a remedy for certain named diseases. M. S. Peck. No. 127,863; Dec. 9; v. 269; p. 389.
- Preparations for dressing the hair and cleansing the scalp. E. Lewis. No. 126,030; July 22; v. 264; p. 697.
- Preparations for offensive feet. Swat Sweat Remedy Co. No. 125,102; Apr. 8; v. 261; p. 407.
- Preparations for the face, hands, &c., and tonics, &c., for the hair, scalp, and dandruff. H. J. Titus. No. 124,603; Feb. 25; v. 259; p. 774.
- Preparations for the treatment of earache, &c. F. H. Osborne. No. 125,756; June 10; v. 263; p. 328.
- Preparations for toilet uses. Pharmaceutical. Youth Craft Company. No. 125,116; Apr. 8; v. 261; p. 408.
- Preserves, jams, &c., Fruit. M. B. Gosnell. No. 127,186; Oct. 21; v. 267; p. 483.

- Preserving and canning fruits, &c., Vessels for. O. M. Fagley. No. 126,153; July 29; v. 264; p. 860.
- Presses and pumps, &c., Hydraulic. Eastern Production Company. No. 127,228; Oct. 28; v. 267; p. 643.
- Printing plates and matrices, &c. J. S. Stokes. No. 127,517; Nov. 11; v. 268; p. 375.
- Prints. Associated Architects Printing and Supply Company. No. 124,076; Jan. 14; v. 258; p. 443.
- Prints and publications. Certain named. Engineering Magazine Company. No. 125,228; Aug. 5; v. 265; p. 141.
- Prints, drills, denims in the piece. J. L. Stifel & Sons. No. 126,908; Oct. 7; v. 267; p. 179.
- Propeller-blades. B. Shoninger Co. No. 124,476; Feb. 18; v. 259; p. 572.
- Prophylactics for venereal diseases. Chapin Company. No. 127,724; Dec. 2; v. 269; p. 185.
- Prunes, Dried. G. W. Hamo Company. No. 127,063; Oct. 21; v. 267; p. 479.
- Publication. The Allen-Augent Co. No. 127,805; Dec. 9; v. 269; p. 387.
- Publication. Atlas Crucible Steel Company. No. 126,986; Oct. 21; v. 267; p. 477.
- Publication. International Trade Developer. No. 125,147; Apr. 15; v. 261; p. 626.
- Publication. Mother Nature Publishing Company. No. 124,860; Mar. 18; v. 260; p. 556.
- Publication, Annual. L. M. Smith. No. 127,137; Oct. 21; v. 267; p. 482.
- Publication, Daily. M. De Witt. No. 127,824; Dec. 9; v. 269; p. 387.
- Publication in the nature of a circular letter. Kardos & Co. No. 124,104; Jan. 14; v. 258; p. 444.
- Publication, Life-insurance. A. J. Hill. No. 127,949; Dec. 16; v. 269; p. 542.
- Publication, Monthly. The American Chauffeur Publishing Company. No. 124,279; Feb. 4; v. 259; p. 177.
- Publication, Monthly. J. E. Gatewood. No. 125,136; Apr. 15; v. 261; p. 625.
- Publication, Monthly. The Globe Printing Company. No. 127,835; Dec. 9; v. 269; p. 388.
- Publication, Monthly. Military Training Publishing Corporation. No. 124,666; Feb. 25; v. 259; p. 773.
- Publication, Monthly. Straus Brothers Company. No. 126,491; Aug. 26; v. 265; p. 630.
- Publication, Monthly. Weinstock-Nichols Co. No. 126,107; July 22; v. 264; p. 700.
- Publication, Monthly. W. T. Welisch & Co. No. 126,499; Aug. 26; v. 265; p. 631.
- Publication, Semimonthly. Southern Ruralist Co. No. 127,880; Dec. 9; v. 269; p. 389.
- Publication, Semimonthly. Technical Publishing Company. No. 125,103; Apr. 8; v. 261; p. 407.
- Publication, Semimonthly. Vogue Company. No. 125,542; May 20; v. 262; p. 478.
- Publications. Alexander Hamilton Institute. No. 125,948; July 22; v. 264; p. 695.
- Publications, Bimonthly. Armstrong Cork Company. No. 125,953; July 22; v. 264; p. 695.
- Publications, Periodical. C. H. Pugh. No. 125,306; May 6; v. 262; p. 165.
- Publications, Periodical financial. H. Evan Taylor, Inc. No. 124,838; Mar. 18; v. 260; p. 555.
- Publications, Trade. Parsons Trading Company. No. 125,164; Apr. 15; v. 261; p. 626.
- Pulps, Wood-. Lagerloef Trading Company. No. 125,063; Apr. 8; v. 261; p. 406.
- Pumping water, Power-driven systems for. The Goulds Manufacturing Company. No. 124,712; Mar. 11; v. 260; p. 387.
- Pumps, Hand-. Goulds Manufacturing Company. No. 127,744; Dec. 2; v. 269; p. 186.
- Pumps, hydraulic presses, Air, &c. Chicago Apparatus Company. No. 125,405; May 20; v. 262; p. 473.
- Pumps, steering and steam engines, Circulating. Staten Island Shipbuilding Company. No. 127,250; Oct. 28; v. 267; p. 644.
- Push-button locators, Luminous. Eastern Luminous Indicator Co. No. 127,226; Oct. 28; v. 267; p. 643.
- Putties, Sash-. William T. Baker Inc. No. 124,660; Mar. 11; v. 260; p. 385.
- Putties, Sash-. William T. Baker Inc. Nos. 125,554-5; May 27; v. 262; p. 643.
- Pyroxylin. Celluloid Company. Nos. 126,593-4; Sept. 23; v. 266; p. 593.
- Pyroxylin. The Celluloid Company. No. 126,517; Sept. 16; v. 266; p. 445.
- Pyroxylin, Certain named articles made of. Celluloid Company. Nos. 126,135-7; July 29; v. 264; p. 859.
- Pyroxylin plastics. Hercules Powder Company. No. 127,189; Oct. 21; v. 267; p. 483.
- Quilts, blankets, auto and steamer rugs, sheets, pillowcases. Rogers, Hennessey & Jenkins. No. 124,472; Feb. 18; v. 259; p. 572.
- Radiator and engine covers. Cincinnati Auto Specialty Co. No. 124,678; Mar. 11; v. 260; p. 386.
- Radiators. James B. Clow & Sons. No. 127,267; Nov. 4; v. 268; p. 187.
- Rags for machinery, &c., Wiping-. A. D. Radinsky. Nos. 124,146-7; Jan. 14; v. 258; p. 445.
- Railway-tie plates. H. H. Hart. No. 126,166; July 29; v. 264; p. 860.
- Rainproof overcoats. United States Rubber Company. No. 125,854; June 17; v. 263; p. 479.
- Raisins. Federal System of Bakeries of America. No. 127,739; Dec. 2; v. 269; p. 186.
- Rat and mouse exterminator. F. Pabst. No. 125,163; Apr. 15; v. 261; p. 626.
- Rat and mouse traps. Simmons Hardware Company. No. 127,686; Nov. 18; v. 268; p. 560.
- Razor blades, Safety-. U-Magnet Safety Razor Company. No. 127,253; Oct. 28; v. 267; p. 644.
- Razors. Geneva Cutlery Corporation. No. 127,403; Nov. 11; v. 268; p. 372.
- Razors. Son Brothers & Co. No. 124,998; Apr. 1; v. 261; p. 198.
- Razors and razor-blades. J. Molkenthin & Sons. No. 125,749; June 10; v. 263; p. 328.
- Razors, Safety-. A. H. Bryant. No. 125,971; July 22; v. 264; p. 695.
- Razors, Safety-. The E. W. Carpenter Manufacturing Co. No. 127,007; Oct. 21; v. 267; p. 478.
- Receptacles. Edwin B. Nathan. No. 125,831; June 17; v. 263; p. 478.
- Receptacles, Certain named. Clinton Elliott. No. 126,272; Aug. 19; v. 265; p. 452.
- Receptacles, Certain named. J. D. Hollingshead Co. No. 125,445; May 20; v. 262; p. 475.
- Receptacles made of pyroxylin. The Celluloid Company. No. 126,925; Oct. 14; v. 267; p. 335.
- Recording-meters for liquids. Yarnall-Waring Company. No. 127,257; Oct. 28; v. 267; p. 644.
- Refrigerators. Alaska Refrigerator Company. No. 126,233; Aug. 19; v. 265; p. 451.
- Refrigerators. Simmons Hardware Company. No. 126,346; Aug. 19; v. 265; p. 454.
- Refrigerators. Wm. Enders Manufacturing Company. No. 127,036; Oct. 21; v. 267; p. 478.
- Refrigerators and ice-boxes. Traverse City Refrigerator Co. No. 124,898; Mar. 18; v. 260; p. 557.
- Registers, Autographic. J. F. Brady. No. 125,396; May 20; v. 262; p. 473.
- Registers or directories, Social. F. W. Dau. No. 125,415; May 20; v. 262; p. 474.
- Registers or directories, Social. The Norman. Remington Company. No. 124,133; Jan. 14; v. 258; p. 445.
- Registers or directories, Social. The Norman. Remington Company. No. 124,260; Jan. 28; v. 258; p. 810.
- Remedies for colds, influenza, headaches, neuralgia, &c. Genatosan, Limited. No. 127,277; Nov. 4; v. 268; p. 187.
- Remedies for poultry disinfectants, &c. G. E. Conkey Co. Nos. 127,594-5; Nov. 18; v. 268; p. 557.
- Remedies for the tobacco habit. The Sterling Remedy Company. No. 125,254; Apr. 22; v. 261; p. 797.
- Remedies, Pile and eczema. L. M. Fletcher. No. 124,528; Feb. 25; v. 259; p. 772.
- Remedy for constipation, ordinary derangement of digestion, &c. M. F. Schlesinger. No. 127,248; Oct. 28; v. 267; p. 644.
- Remedy for gonorrhea and blood diseases. K. Holovchuk. No. 127,419; Nov. 11; v. 268; p. 372.
- Remedy for headaches. C. B. Platzer. No. 126,888; Oct. 7; v. 267; p. 179.
- Remedy for nausea. W. W. Dickson. No. 127,732; Dec. 2; v. 269; p. 185.
- Remedy for neuralgia, nervous headache, &c. G. C. Hanford Manufacturing Co. No. 126,938; Oct. 14; v. 267; p. 335.
- Remedy for piles. W. D. Chrysos. No. 125,794; June 17; v. 263; p. 477.
- Remedy for the treatment of freckles, tan, &c. J. W. Douthitt. No. 125,986; July 22; v. 264; p. 696.
- Remedy for throat and nose diseases. J. W. Coughlin. No. 128,038; Dec. 23; v. 269; p. 696.
- Remedy, Headache. M. Rudominer. No. 127,674; Nov. 18; v. 268; p. 560.
- Remedy, Headache. F. Stephens. No. 126,356; Aug. 19; v. 265; p. 454.
- Remedy, Indigestion. Bell & Co., Inc. No. 126,920; Oct. 14; v. 267; p. 335.
- Remedy, Pike's liver and stomach. Pike Medicine Company. No. 126,954; Oct. 14; v. 267; p. 336.
- Remedy, Pile. R. P. Smith & Co. No. 127,791; Dec. 2; v. 269; p. 187.
- Rennet. Viking Rennet Company. No. 125,005; Apr. 1; v. 261; p. 198.
- Resuscitating apparatus, &c. Draeger Oxygen Apparatus Company. No. 125,727; June 10; v. 263; p. 327.
- Rheostat. Ultima Physical Appliance Co. No. 124,488; Feb. 18; v. 259; p. 572.
- Rheostats and transformers. Kilx Manufacturing Company. No. 124,315; Feb. 4; v. 259; p. 178.
- Ribbon pieces. R. C. Taft. No. 125,535; May 20; v. 262; p. 477.
- Ribbons. Johnson, Cowdin & Co. Nos. 125,743-4; June 10; v. 263; p. 327.
- Ribbons. Johnson, Cowdin & Co. No. 126,023; July 22; v. 264; p. 697.
- Ribbons. W. V. Judkins. Nos. 127,958-9; Dec. 16; v. 269; p. 542.
- Ribbons. Rionor Silk Company. No. 127,870; Dec. 9; v. 269; p. 389.



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- Ribbons, Hair-. D. Laurie, Jr. No. 128,099; Dec. 23; v. 269; p. 698.
- Ribbons, Hair-. Wertheimer Brothers. No. 124,174; Jan. 14; v. 258; p. 446.
- Rice. Kansas City Wholesale Grocery Co. No. 124,547; Feb. 25; v. 259; p. 772.
- Rice. Stuttgart Rice Mill Company. No. 128,181; Dec. 23; v. 269; p. 700.
- Rice. W. T. Welisch & Co. No. 127,702; Nov. 18; v. 268; p. 561.
- Rings, Finger-. Goldsmith, Stern & Co. No. 127,234; Oct. 28; v. 267; p. 643.
- Rings, Gold finger-. Dattelbaum & Friedman. No. 126,932; Oct. 14; v. 267; p. 335.
- Rings, Javallieres, studs, &c. H. E. Oppenheimer. No. 124,470; Feb. 18; v. 259; p. 572.
- Roach, ant, and bedbug killer. A. Overton. No. 126,737; Sept. 30; v. 266; p. 736.
- Road-grading machines. Russell Grader Manufacturing Company. No. 127,874; Dec. 9; v. 269; p. 389.
- Road-surface binder. J. E. Ward. No. 127,998; Dec. 16; v. 269; p. 544.
- Rompers and dresses, Children's. W. I. Zidell. No. 124,633; Feb. 25; v. 259; p. 775.
- Roofing. Diem and Wing Paper Company. No. 125,629; June 3; v. 263; p. 161.
- Roofing accessories. Standard Paint Company. No. 124,157; Jan. 14; v. 258; p. 445.
- Roofing and roofing-cements, Felt. Texas Company. No. 128,189; Dec. 23; v. 269; p. 700.
- Roofing and sheathing and building-paper, Felt. The Barrett Company. No. 124,501; Feb. 25; v. 259; p. 771.
- Roofing-cement. Insulating materials Company. No. 126,294; Aug. 19; v. 265; p. 453.
- Roofing, Felt. C. H. Harris. No. 125,810; June 17; v. 263; p. 478.
- Roofing, Felt-asphalt. Wm. Enders Manufacturing Company. No. 127,607; Nov. 18; v. 268; p. 558.
- Roofing material. Flintlock Company. No. 125,805; June 17; v. 263; p. 478.
- Roofing, Prepared. Reciprocity Supply Company. No. 124,879; Mar. 18; v. 260; p. 557.
- Roofings and building-papers. Composition. Standard Paint Company. No. 126,355; Aug. 19; v. 265; p. 454.
- Roofings, Prepared. Standard Paint Company. No. 125,846; June 17; v. 263; p. 479.
- Rope. American Manufacturing Company. No. 124,811; Mar. 18; v. 260; p. 555.
- Rope. Hooven & Allison Company. No. 126,168; July 29; v. 264; p. 860.
- Rope, cord, twine. American Manufacturing Company. No. 125,775; June 17; v. 263; p. 477.
- Rope, Manila. The Hooven & Allison Company. No. 124,834; Mar. 18; v. 260; p. 555.
- Rosaries, Wrist-. Eisenstadt Manufacturing Company. No. 128,051; Dec. 23; v. 269; p. 696.
- Rosettes, &c., for harness and luggage-tags all made of pyroxylin. Celluloid Company. Nos. 125,974-5; July 22; v. 264; p. 696.
- Rouge. A. Bourjois & Co. No. 126,133; July 29; v. 264; p. 859.
- Rubber, and a rubber preservative. Compound for coloring F. W. Tunnell & Company. No. 124,423; Feb. 11; v. 259; p. 381.
- Rubber and composition soles and heels. Essex Rubber Company. No. 127,388; Nov. 11; v. 268; p. 371.
- Rubber and fabric tires, casings, reliners. Remiler Rubber Co. No. 127,117; Oct. 21; v. 267; p. 481.
- Rubber and leather belts for motor-cars, &c. Detroit Leather Works. No. 128,045; Dec. 23; v. 269; p. 696.
- Rubber belting. Boston Woven Hose & Rubber Co. No. 126,132; July 29; v. 264; p. 859.
- Rubber belting. The Goodyear Tire & Rubber Company. No. 126,686; Sept. 30; v. 266; p. 735.
- Rubber boots and shoes. United States Rubber Company. No. 128,192; Dec. 23; v. 269; p. 700.
- Rubber boots, shoes, and heels. United States Rubber Company. No. 124,490; Feb. 18; v. 259; p. 573.
- Rubber boots, shoes, and overshoes. rubber-soled canvas shoes. Hood Rubber Company. No. 125,292; May 6; v. 262; p. 165.
- Rubber boots, shoes, overshoes, &c. The Beacon Falls Rubber Shoe Company. No. 124,219; Jan. 28; v. 258; p. 809.
- Rubber boots, shoes, overshoes, &c. Hood Rubber Company. No. 126,862; Oct. 7; v. 267; p. 178.
- Rubber boots, shoes, overshoes, and rubber-sole canvas shoes. Hood Rubber Company. No. 127,059; Oct. 21; v. 267; p. 479.
- Rubber cement. A. Merriman. No. 127,446; Nov. 11; v. 268; p. 373.
- Rubber composition. Ajax Rubber Company. No. 124,809; Mar. 18; v. 260; p. 555.
- Rubber composition soles for boots and shoes. Thos. H. Logan Co. No. 124,556; Feb. 25; v. 259; p. 772.
- Rubber filler and wood-preserving oil. Splittine Chemical Co. No. 126,786; Sept. 30; v. 266; p. 738.
- Rubber fruit-jar rings. J. J. Rogers & Son. No. 125,095; Apr. 8; v. 261; p. 407.
- Rubber goods, Certain named mechanical. The Gutta Percha & Rubber Manufacturing Company. No. 124,381; Feb. 11; v. 259; p. 379.
- Rubber goods, Certain named mechanical. New Jersey Car Spring & Rubber Co. Nos. 124,465-7; Feb. 18; v. 259; p. 572.
- Rubber goods or goods having rubber incorporated therein, Certain named. Pirelli & C. No. 124,262; Jan. 28; v. 258; p. 810.
- Rubber goods. Patches for repairing inner tubes, tire-casings, and other. P. Hoerr. No. 126,231; Aug. 12; v. 265; p. 301.
- Rubber goods, Pharmaceutical. Whitall Tatum Company. No. 124,176; Jan. 14; v. 258; p. 446.
- Rubber heels. Robert E. Miller, Inc. No. 128,128; Dec. 23; v. 269; p. 698.
- Rubber heels. Taunton Rubber Co. No. 124,785; Mar. 11; v. 260; p. 389.
- Rubber heels and heel-lifts for shoes, &c. Racine Auto Tire Company. No. 127,480; Nov. 11; v. 268; p. 374.
- Rubber heels and soles for boots and shoes. The Goodyear Tire & Rubber Company. No. 127,406; Nov. 11; v. 268; p. 372.
- Rubber heels for shoes. F. Wharton. No. 125,549; May 20; v. 262; p. 478.
- Rubber heels for shoes. C. W. Winkler. No. 125,318; May 6; v. 262; p. 166.
- Rubber heels or lifts. Racine Auto Tire Company. No. 126,063; July 22; v. 264; p. 698.
- Rubber hose. Eureka Fire Hose Manufacturing Company. No. 127,931; Dec. 16; v. 269; p. 542.
- Rubber-impregnated belting. The Manhattan Rubber Mfg. Co. No. 126,560; Sept. 16; v. 266; p. 446.
- Rubber, India-rubber bottle-stoppers, sheets, and mats, Pure cut sheet India-. Leyland & Birmingham Rubber Co. No. 124,116; Jan. 14; v. 258; p. 444.
- Rubber materials, Chemical for accelerating vulcanization of. Katzenbach & Bullock Company. No. 127,755; Dec. 2; v. 269; p. 186.
- Rubber or composition shoe-soles. W. C. Walsh. No. 125,109; Apr. 8; v. 261; p. 401.
- Rubber patches. R. B. Cannon. No. 128,026; Dec. 23; v. 269; p. 695.
- Rubber patches. H. E. Errickson. No. 128,059; Dec. 23; v. 269; p. 696.
- Rubber pump-valves. United States Rubber Company. No. 127,997; Dec. 16; v. 269; p. 544.
- Rubber soles and heels. Woodbury Shoe Company. No. 127,559; Nov. 11; v. 268; p. 377.
- Rubber tires and tubes. The Para Company. No. 126,744; Sept. 30; v. 266; p. 737.
- Rubber tubing and pressure-tubing and hose-pipe. The Leyland & Birmingham Rubber Co. No. 124,554; Feb. 25; v. 259; p. 772.
- Rubbers, Food-jar. Friant Bros. Rubber Co. No. 125,640; June 3; v. 263; p. 162.
- Rubbers, Fruit-jar. Acme Rubber Manufacturing Company. No. 128,211; Dec. 23; v. 269; p. 701.
- Rubberized top fabric for vehicles. O'Bannon Corporation. No. 124,135; Jan. 14; v. 258; p. 445.
- Rugs and carpets, Woven. Marshall Field & Company. No. 127,966; Dec. 16; v. 269; p. 543.
- Rugs, carpets, &c. O. W. Richardson & Company. No. 126,892; Oct. 7; v. 267; p. 179.
- Rugs, Floor-. Waite Grass Carpet Company. Nos. 128,196-7; Dec. 23; v. 269; p. 701.
- Rugs, Grass. Waite Grass Carpet Company. No. 126,225; July 29; v. 264; p. 862.
- Rugs, Woven. Olson Rug Company. No. 126,051; July 22; v. 264; p. 698.
- Rules. Dahl Manufacturing Company. No. 124,296; Feb. 4; v. 259; p. 177.
- Saccharin. John J. White, Inc. No. 125,262; Apr. 22; v. 261; p. 797.
- Sal-ammoniac. The Grasselli Chemical Company. No. 126,850; Oct. 7; v. 267; p. 178.
- Salad-dressing. P. A. Laddon. No. 127,071; Oct. 21; v. 267; p. 479.
- Sales-cards. C. H. Gernert. No. 126,423; Aug. 26; v. 265; p. 628.
- Salt-spirit, Medicated. A. Strassburger Company. No. 126,610; Sept. 23; v. 266; p. 593.
- Salt, Table-. The Barton Salt Co. No. 125,188; Apr. 22; v. 261; p. 795.
- Salts, Effervescent and laxative. McCormick & Co. No. 125,464; May 20; v. 262; p. 475.
- Salts, Smelling-. Crown Perfumery Company. No. 125,331; May 13; v. 262; p. 309.
- Salted peanuts. Counter Confection Company. No. 127,364; Nov. 11; v. 268; p. 370.
- Salve. Rocarbon Co. No. 127,808; Dec. 9; v. 269; p. 387.
- Salve. E. Davis. No. 127,730; Dec. 2; v. 269; p. 185.
- Salve. O. S. Rimer. No. 127,122; Oct. 21; v. 267; p. 481.
- Salve. W. G. Van Hook. No. 127,697; Nov. 18; v. 268; p. 561.
- Salve, Antiseptic healing-. Paris Medicine Company. No. 126,885; Oct. 7; v. 267; p. 179.
- Salve, Disinfecting, &c. S. P. Finigan. No. 126,935; Oct. 14; v. 267; p. 335.
- Salve for boils, wounds, &c. E. G. Wieland. No. 124,429; Feb. 11; v. 259; p. 381.

- Salve for burns, wounds, piles, &c. C. W. Brown. No. 125,024; Apr. 8; v. 261; p. 405.
- Salve for certain named complaints. The Broncho Co. No. 125,558; May 27; v. 262; p. 643.
- Salve for colds, coughs, pneumonia, &c. McCormick & Co. No. 125,152; Apr. 15; v. 261; p. 626.
- Salve for coughs, croup, &c. U. G. Mason. No. 126,188; July 29; v. 264; p. 861.
- Salve for cuts, wounds, and bruises. M. Kobzina. No. 124,932; Mar. 25; v. 260; p. 729.
- Salve for piles. N. Pryor. No. 126,890; Oct. 7; v. 267; p. 179.
- Salve for piles, burns, sores, &c. J. Renz & Co. No. 125,510; May 20; v. 262; p. 477.
- Salve for scalds and burns. C. Gorzelski. No. 126,688; Sept. 30; v. 266; p. 735.
- Salve, Healing-. S. Koch. No. 126,439; Aug. 26; v. 265; p. 629.
- Salve or ointment for felons, &c. M. E. Lunger. No. 126,449; Aug. 26; v. 265; p. 629.
- Salves. Brookgate Remedies Co. No. 127,718; Dec. 2; v. 269; p. 185.
- Salves for cuts, burns, &c. H. B. Burton. No. 125,559; May 27; v. 262; p. 643.
- Sandals, shoes, slippers. Wilson Company. No. 127,555; Nov. 11; v. 268; p. 377.
- Sandwich-filling, Salad. Rialto Corporation. No. 125,758; June 10; v. 263; p. 328.
- Sardines. Castine Bay Company. No. 127,351; Nov. 11; v. 268; p. 370.
- Sardines. Canned. Nielsen & Kittle Canning Co. Ltd. No. 127,857; Dec. 9; v. 269; p. 388.
- Satins, venetians, and colored cotton piece goods. J. Kridel, Sons & Co. No. 125,822; June 17; v. 263; p. 478.
- Sauce containing a seasoning. Thick fruity. Gillard & Co. No. 125,137; Apr. 15; v. 261; p. 625.
- Sauce for meats, salads, &c. Burlington Vinegar & Pickle Works. No. 127,342; Nov. 11; v. 268; p. 370.
- Sausages. The Danaby Packing Co. No. 127,020; Oct. 21; v. 267; p. 478.
- Saws. Henry Disston & Sons Incorporated. No. 127,377; Nov. 11; v. 268; p. 371.
- Scales, Weighing-. Continental Scale Works. No. 127,014; Oct. 21; v. 267; p. 478.
- Scalp-cleanser. E. D. De Long. No. 125,038; Apr. 8; v. 261; p. 405.
- Scalp treatment, Preparation for. R. B. Gore. No. 124,533; Feb. 25; v. 259; p. 772.
- Scouring preparation for various fabrics. McCarty Aniline & Extract Company. No. 125,151; Apr. 15; v. 261; p. 626.
- Scrapers for ships' hulls, drills, and parts thereof, Rotary. Rotary Scraper Company. No. 124,992; Apr. 1; v. 261; p. 198.
- Scratchers, Back-. Celluloid Company. No. 125,328; May 13; v. 262; p. 309.
- Screens, Window-. The E. T. Burrowes Company. No. 124,292; Feb. 4; v. 259; p. 177.
- Screw-drivers, Hand. M-B Tool Company. No. 125,104; Apr. 8; v. 261; p. 407.
- Seals for sealing letters. W. J. Buedingen. No. 125,026; Apr. 8; v. 261; p. 405.
- Search-lights, &c. Electric. The Sperry Gyroscope Company. No. 126,580; Sept. 16; v. 266; p. 447.
- Seed. The J. Chas. McCullough Seed Company. No. 124,558; Feb. 25; v. 259; p. 773.
- Seed, Alfalfa-. T. H. Cochrane Co. No. 127,590; Nov. 18; v. 268; p. 557.
- Seed, Grass-. I. Ostberg. No. 127,468; Nov. 11; v. 268; p. 374.
- Seed, Timothy-. The C. E. De Puy Company. No. 125,039; Apr. 8; v. 261; p. 405.
- Seed, Vegetable-. C. C. Rahn. No. 125,360; May 13; v. 262; p. 310.
- Seeds. American Mutual Seed Company. Nos. 127,310-11; Nov. 11; v. 268; p. 369.
- Seeds. The Atlantic Seed Company. No. 125,606; June 3; v. 263; p. 161.
- Seeds. F. W. Bolgiano. No. 125,863; June 24; v. 263; p. 631.
- Seeds. The C. E. De Puy Company. No. 126,666; Sept. 30; v. 266; p. 734.
- Seeds. H. W. Gordinier & Sons Co. No. 125,643; June 3; v. 263; p. 162.
- Seeds. John A. Salzer Seed Company. No. 125,677; June 3; v. 263; p. 163.
- Seeds. Nebraska Seed Co. Nos. 124,131-2; Jan. 14; v. 258; p. 445.
- Seeds. The Nebraska Seed Co. No. 124,403; Feb. 11; v. 259; p. 380.
- Seeds. Pittman & Harrison Company. Nos. 124,876-7; Mar. 18; v. 260; p. 557.
- Seeds, bulbs, and plants. The Holmes-Letherman Seed Company. No. 124,721; Mar. 11; v. 260; p. 387.
- Seeds, Field-. The O'Bannon Company. No. 125,087; Apr. 8; v. 261; p. 407.
- Seeds, Field and garden. T. H. Cochrane Co. No. 127,589; Nov. 18; v. 268; p. 557.
- Seeds, Field and garden. T. H. Cochrane Co. Nos. 127,591-2; Nov. 18; v. 268; p. 557.
- Sewing-machines. Domestic Sewing Machine Co. No. 124,298; Feb. 4; v. 259; p. 177.
- Sewing-machines. Domestic Sewing Machine Company. Nos. 124,695-6; Mar. 11; v. 260; p. 386.
- Sewing-machines. Security Sewing Machine Company. Nov. 127,502; Nov. 11; v. 268; p. 375.
- Sewing-machines and attachments therefor. Simmons Hardware Company. No. 127,136; Oct. 21; v. 267; p. 482.
- Sewing-machines and attachments therefor. Simmons Hardware Company. No. 127,509; Nov. 11; v. 268; p. 375.
- Sewing-machines and attachments therefor. Simmons Hardware Company. No. 127,511; Nov. 11; v. 268; p. 375.
- Sewing-machines and parts thereof. Union Special Machine Company. No. 124,794; Mar. 11; v. 260; p. 389.
- Shade-cloth. Oswego Shade Cloth Company. No. 124,573; Feb. 25; v. 259; p. 773.
- Shade-cloth. Oswego Shade Cloth Company. No. 125,833; June 17; v. 263; p. 478.
- Shade-cloth. Stewart Hartshorn Co. No. 124,535; Feb. 25; v. 259; p. 772.
- Shade cloth. Window-. Ordinator Company. No. 124,137; Jan. 14; v. 258; p. 445.
- Shade support, Window-. G. Anderson. No. 125,186; Apr. 22; v. 261; p. 795.
- Shades, Porch-. Hitz, Jacobs & Company. No. 125,652; June 3; v. 263; p. 162.
- Shades, Window-. Cunningham Springless Shade Company. No. 127,018; Oct. 21; v. 267; p. 478.
- Shampoo. National Commodities Company. No. 127,198; Oct. 21; v. 267; p. 484.
- Shampoo. W. Zimmerman. No. 124,647; Mar. 4; v. 260; p. 197.
- Shampoo. A. A. West. No. 125,856; June 17; v. 263; p. 479.
- Shears and scissors. J. L. R. Wyckoff. No. 125,263; Apr. 22; v. 261; p. 797.
- Shears, Hedge-. M. E. Heimerdinger. No. 126,857; Oct. 7; v. 267; p. 178.
- Shears, Mule-. M. E. Heimerdinger. No. 125,649; June 3; v. 263; p. 162.
- Sheepskins, Finished. Donnell, Carman & Mudge. No. 124,925; Mar. 25; v. 260; p. 729.
- Sheet and tin mill products, Certain named. The Liberty Steel Company. No. 124,738; Mar. 11; v. 260; p. 388.
- Sheet metal with a decorative coating. American Can Co. No. 127,174; Oct. 21; v. 267; p. 483.
- Sheets, sheetings, &c. Utica Steam & Mohawk Valley Cotton Mills. No. 125,855; June 17; v. 263; p. 479.
- Sheets, sheeting, &c. Utica Steam & Mohawk Valley Cotton Mills. No. 126,911; Oct. 7; v. 267; p. 180.
- Sheets, sheetings, &c. Utica Steam & Mohawk Valley Cotton Mills. No. 127,536; Nov. 11; v. 268; p. 376.
- Sheeting. S. Amar. No. 128,215; Dec. 23; v. 269; p. 701.
- Sheeting, pillow cases and tubing, blankets, &c. Marshall Field & Company. No. 124,120; Jan. 14; v. 258; p. 444.
- Shingles. Miller Bros. Lumber Co. No. 125,159; Apr. 15; v. 261; p. 626.
- Shingles. Shingle Agency of British Columbia. No. 126,212; July 29; v. 264; p. 862.
- Shingles, Cedar. H. S. Barber. No. 126,919; Oct. 14; v. 267; p. 335.
- Shingles, Mineral-surface asphalt. Richards & Co. No. 126,198; July 29; v. 264; p. 861.
- Ship-rivets. Townsend Company. No. 124,790; Mar. 11; v. 260; p. 389.
- Shirt-waists, Ladies'. W. J. Ball. No. 125,388; May 20; v. 262; p. 473.
- Shirts and pajamas, Men's. Star Shirt Manufacturing Company. No. 126,907; Oct. 7; v. 267; p. 179.
- Shirts and underwear, Men's. Geo. Fox & Co. No. 127,395; Nov. 11; v. 268; p. 371.
- Shirts, collars, cuffs, &c. Gents' dress, negligée, work, and night. J. F. Haig & Co. Ltd. No. 127,409; Nov. 11; v. 268; p. 372.
- Shirts, Dress-. Keet and Rountree Dry Goods Co. No. 125,274; Apr. 29; v. 261; p. 953.
- Shirts, Men's and boys' work-. B. Breier. No. 125,266; Apr. 29; v. 261; p. 953.
- Shirts, Men's dress and negligée. The Liondale Shirt Co. Inc. No. 128,110; Dec. 23; v. 269; p. 698.
- Shirts, Men's outer. The Hiker-Wiechers Manufacturing Co. No. 124,537; Feb. 25; v. 259; p. 772.
- Shirts, nightgowns, pajamas, Night-. E. Rosenfeld & Company. No. 126,069; July 22; v. 264; p. 698.
- Shirts, overalls, coats, &c. Geo. F. Minto & Co. No. 125,279; Apr. 29; v. 261; p. 953.
- Shirts, overcoats, mackinaws. Greenberg-Kantor Co. No. 126,851; Oct. 7; v. 267; p. 178.
- Shirts, overcoats, pajamas, hats, &c. C. W. Grosner. No. 124,241; Jan. 28; v. 258; p. 810.
- Shirts, pajamas, flat underwear, &c. M. H. Ellenbogen. No. 127,383; Nov. 11; v. 268; p. 371.
- Shirts, pajamas, underwear, collars, and cuffs, Men's. Phillips-Jones Company. No. 126,057; July 22; v. 264; p. 698.
- Shirts, shirt-waists, coats, jumpers, overalls. B. Kronthal & Company. No. 125,062; Apr. 8; v. 261; p. 406.
- Shirts, Work-. Reliance Manufacturing Company. No. 127,985; Dec. 16; v. 269; p. 543.



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- Shirts, Work. P. W. Rouss. No. 127,783; Dec. 2; v. 269; p. 187.
- Shock-absorber for Ford cars. R. H. Hassler. No. 125,647; June 3; v. 263; p. 162.
- Shock-absorbers for vehicles. The Specialty Device Company. No. 127,514; Nov. 11; v. 268; p. 375.
- Shoe and heel dressing. Angelus Shoe Polish Company. No. 124,071; Jan. 14; v. 258; p. 443.
- Shoe-dressings, cleaners, &c. John Klapos. No. 125,821; June 17; v. 263; p. 478.
- Shoe fabrics. D. W. Herrman. No. 125,739; June 10; v. 263; p. 327.
- Shoe-linings in the piece. Farnsworth, Hoyt Co. No. 125,729; June 10; v. 263; p. 327.
- Shoe parts, Certain named. The Barrett Company. No. 124,218; Jan. 28; v. 258; p. 809.
- Shoe-polish. Griffin Mfg. Co. No. 127,408; Nov. 11; v. 268; p. 372.
- Shoe-polish. A. Paszkiewicz. No. 125,165; Apr. 15; v. 261; p. 626.
- Shoe-polish. W. Surdacki. No. 124,784; Mar. 11; v. 260; p. 389.
- Shoe-polishes. S. C. Markatos. No. 124,119; Jan. 14; v. 258; p. 444.
- Shoe-polishing machines. A. C. Erickson. No. 127,038; Oct. 21; v. 267; p. 478.
- Shoes. "All" Trading Corporation. No. 126,816; Oct. 7; v. 267; p. 177.
- Shoes. The Elbinger Shoe Mfg. Co. No. 124,524; Feb. 25; v. 259; p. 771.
- Shoes. Rhein Shoe Co. No. 124,880; Mar. 18; v. 260; p. 557.
- Shoes. United States Rubber Company. No. 127,299; Nov. 4; v. 268; p. 188.
- Shoes. United States Rubber Company. No. 127,531; Nov. 11; v. 268; p. 376.
- Shoes and boots. R. C. H. Covington Co. No. 124,375; Feb. 11; v. 259; p. 379.
- Shoes, boots, slippers. E. Hayes, Inc. No. 127,412; Nov. 11; v. 268; p. 372.
- Shoes, boots, slippers, Leather. J. McBrearty. No. 126,875; Oct. 7; v. 267; p. 178.
- Shoes, Children's. Cammeyer. No. 124,225; Jan. 28; v. 258; p. 809.
- Shoes, Children's. Devine and Hoffner. No. 124,692; Mar. 11; v. 260; p. 386.
- Shoes, Children's. Solo Shoe Co. No. 127,139; Oct. 21; v. 267; p. 482.
- Shoes, Children's leather. Brown Shoe Company. No. 125,267; Apr. 29; v. 261; p. 953.
- Shoes, Children's play leather. L. B. Evans' Son Company. No. 126,415; Aug. 26; v. 265; p. 628.
- Shoes, Comfort. Paul Brothers. No. 126,886; Oct. 7; v. 267; p. 179.
- Shoes for men and women. W. W. McCoy. No. 124,744; Mar. 11; v. 260; p. 388.
- Shoes for women. W. T. Holmes Company. No. 127,418; Nov. 11; v. 268; p. 372.
- Shoes, Ladies'. Craddock-Terry Company. No. 127,365; Nov. 11; v. 268; p. 371.
- Shoes, Ladies' and misses'. Helming-McKenzie Shoe Company. No. 126,287; Aug. 19; v. 265; p. 452.
- Shoes, Ladies' leather. The Krohn-Fechheimer Co. No. 124,550; Feb. 25; v. 259; p. 772.
- Shoes, Leather. C. & C. Arch Relocating Shoe Co. No. 126,822; Oct. 7; v. 267; p. 177.
- Shoes, Leather. S. J. Brouwer Shoe Co. No. 127,264; Nov. 4; v. 268; p. 187.
- Shoes, Leather. The O. K. Dorn Shoe Company. No. 125,088; Apr. 8; v. 261; p. 407.
- Shoes, Leather. Edmonds Shoe Company. No. 127,822; Dec. 9; v. 269; p. 387.
- Shoes, Leather. P. A. Field Shoe Co. No. 127,394; Nov. 11; v. 268; p. 371.
- Shoes, Leather. The Stanwear Shoe Co. No. 128,178; Dec. 23; v. 269; p. 700.
- Shoes, Leather. United States Rubber Company. Nos. 127,532-4; Nov. 11; v. 268; p. 376.
- Shoes made of leather and rubber. Schmoll Fils & Co. No. 128,166; Dec. 23; v. 269; p. 700.
- Shoes, Men's. E. S. Torrey. No. 124,210; Jan. 21; v. 258; p. 641.
- Shoes, Men's and women's. Marshall Field & Company. No. 125,707; June 3; v. 263; p. 164.
- Shoes, Men's leather. Bradley & Metcalf Company. No. 124,221; Jan. 28; v. 258; p. 809.
- Shoes, Men's leather. Rogers Peet Company. No. 126,893; Oct. 7; v. 267; p. 179.
- Shoes, Men's leather. Veteran Shoe Company. No. 126,497; Aug. 26; v. 265; p. 630.
- Shoes, sandals, slippers, &c. Frankel Specialties Corporation. No. 127,397; Nov. 11; v. 268; p. 372.
- Shoes, Skaters'. Nestor Johnson Manufacturing Company. No. 125,282; Apr. 29; v. 261; p. 953.
- Shoes, Soles and heels of. Clark Rubber Manufacturing Company. No. 128,230; Dec. 30; v. 269; p. 881.
- Shortening. Hodgson Oil Refining Company. No. 126,013; July 22; v. 264; p. 697.
- Shortening composition. Ward Baking Company. No. 124,907; Mar. 18; v. 260; p. 558.
- Shortening compound. Interstate Cotton Oil Refining Co. No. 128,244; Dec. 30; v. 269; p. 881.
- Shortening compound. D. D. Metcalf. No. 128,248; Dec. 30; v. 269; p. 881.
- Shortening compound. The Southern Cotton Oil Co. No. 127,143; Oct. 21; v. 267; p. 482.
- Shortening compound, &c. The N. K. Bairbanks Company. No. 126,274; Aug. 19; v. 265; p. 452.
- Shortening, Vegetable. Dixie Refining Co. No. 124,233; Jan. 28; v. 258; p. 809.
- Shortening, Vegetable. Edible Oil Co. No. 126,271; Aug. 19; v. 265; p. 452.
- Shortening, Vegetable. W. S. Forbes & Co. No. 125,638; June 3; v. 263; p. 162.
- Shortening, Vegetable. John Morrell & Company. No. 127,641; Nov. 18; v. 268; p. 559.
- Shotguns, rifles, &c. Wm. Enders Manufacturing Company. No. 127,736; Dec. 2; v. 269; p. 186.
- Shovels, spades, and scoops. Simmons Hardware Company. Nos. 127,988-9; Dec. 16; v. 269; p. 543.
- Signal device, Automobile or other vehicle visible. C. L. Hyde. No. 125,654; June 3; v. 263; p. 162.
- Signal transmitters for calls, alarms, &c. Klaxon Company. No. 127,070; Oct. 21; v. 267; p. 479.
- Silhouette-making devices. E. M. Barler. No. 124,078; Jan. 14; v. 258; p. 443.
- Silica product. M. E. Newton. No. 128,143; Dec. 23; v. 269; p. 699.
- Silicate of soda. Grasselli Chemical Company. No. 125,433; May 20; v. 262; p. 474.
- Silk and cotton goods in the piece. J. A. Migel, Inc. No. 125,469; May 20; v. 262; p. 475.
- Silk and cotton goods in the piece. J. A. Migel, Inc. No. 125,471; May 20; v. 262; p. 475.
- Silk and silk-mixed fabrics. S. Abrash. No. 124,432; Feb. 18; v. 259; p. 571.
- Silk and silk-mixed piece goods. Rice-Stix Dry Goods Company. No. 125,838; June 17; v. 263; p. 479.
- Silk and silk-mixture fabrics. Cheney Brothers. Nos. 125,403-4; May 20; v. 262; p. 473.
- Silk and silk-mixture fabrics. Cheney Brothers. Nos. 125,781-93; June 17; v. 263; p. 477.
- Silk and silk-mixture fabrics. Cheney Brothers. No. 126,519; Sept. 16; v. 266; p. 445.
- Silk and silk-mixture fabrics. Cheney Brothers. Nos. 127,908-13; Dec. 16; v. 269; p. 541.
- Silk dress goods. Dooley and Wallace. No. 128,048; Dec. 23; v. 269; p. 696.
- Silk fabrics. Cheney Brothers. Nos. 125,401-2; May 20; v. 262; p. 473.
- Silk fabrics. Royal Embroidery Works, Naday & Fleischer. No. 127,494; Nov. 11; v. 268; p. 375.
- Silk fabrics. Royal Embroidery Works, Naday & Fleischer. No. 127,873; Dec. 9; v. 269; p. 389.
- Silk fabrics, Artificial. Royal Embroidery Works, Naday & Fleischer. No. 126,763; Sept. 30; v. 266; p. 737.
- Silk goods in the piece. M. W. Parker. No. 128,147; Dec. 23; v. 269; p. 699.
- Silk in the piece, Broad. J. A. Migel, Inc. No. 125,473; May 20; v. 262; p. 476.
- Silk in the piece, cotton piece goods, Broad. J. A. Migel, Inc. No. 124,978; Apr. 1; v. 261; p. 198.
- Silk piece goods. Arthur Beir & Co. No. 128,003; Dec. 23; v. 269; p. 695.
- Silk piece goods. Empire Silk Company. Nos. 125,803-4; June 17; v. 263; p. 477.
- Silk piece goods. Empire Silk Company. Nos. 125,991-126,000; July 22; v. 264; p. 696.
- Silk piece goods. Empire Silk Company. Nos. 126,529-34; Sept. 16; v. 266; p. 445.
- Silk piece goods. Empire Silk Company. No. 126,843; Oct. 7; v. 267; p. 177.
- Silk piece goods. Empire Silk Company. No. 127,823; Dec. 9; v. 269; p. 387.
- Silk piece goods. Empire Silk Company. Nos. 127,928-30; Dec. 16; v. 269; p. 542.
- Silk piece goods. Henri Gutmann Silks Corporation. No. 126,427; Aug. 26; v. 265; p. 628.
- Silk piece goods. H. R. Mullinson & Co. No. 124,559; Feb. 25; v. 259; p. 773.
- Silk piece goods. L. J. Margulies. No. 124,748; Mar. 11; v. 260; p. 388.
- Silk piece goods. Musa Marzorati & C. No. 124,130; Jan. 14; v. 258; p. 445.
- Silk piece goods. L. Roessel & Co. No. 127,986; Dec. 16; v. 269; p. 543.
- Silk piece goods. A. S. Rosenthal. No. 126,762; Sept. 30; v. 266; p. 737.
- Silk piece goods. A. S. Rosenthal Co. No. 127,246; Oct. 28; v. 267; p. 644.
- Silk, &c. piece goods. Rice-Stix Dry Goods Company. No. 124,762; Mar. 11; v. 260; p. 388.
- Silk, silk and cotton, and cotton piece goods, Broad. J. A. Migel, Inc. No. 128,127; Dec. 23; v. 269; p. 698.
- Silks and satins in the piece. D. Freid. No. 127,941; Dec. 16; v. 269; p. 542.
- Silks in the piece, Broad. Jersey Silk Mills. No. 126,865; Oct. 7; v. 267; p. 178.
- Silks, Sewing. A. H. Rice Co. No. 127,490; Nov. 11; v. 268; p. 374.
- Silver-polish. Philadelphia Specialty Co. No. 126,464; Aug. 26; v. 265; p. 629.
- Silver, stove, and metal polishes. C. M. Kimball Company. No. 127,564; Nov. 11; v. 268; p. 377.

- Skates. Simmons Hardware Company. No. 127,786; Dec. 2; v. 269; p. 187.
- Skates, Ice. Shapleigh Hardware Company. No. 124,994; Apr. 1; v. 261; p. 198.
- Skees, skee-bindings, push-sticks, toboggans, snow-shoes. Marshall-Wells Company. No. 124,121; Jan. 14; v. 258; p. 444.
- Skin-cleanser, Powdered. The Thoro Corporation. No. 127,521; Nov. 11; v. 268; p. 375.
- Skinning apparatus. W. Pfeifferkorn. No. 126,194; July 29; v. 264; p. 861.
- Skirts and dresses, Outer. C. Bonwit. No. 127,336; Nov. 11; v. 268; p. 370.
- Skirts and petticoats, Top. Waters-Weismann Co. Inc. No. 127,541; Nov. 11; v. 268; p. 376.
- Skirts, Dress-. E. Hirshfield. No. 126,859; Oct. 7; v. 267; p. 178.
- Skirts, Dress-. A. Ruff. No. 125,913; July 8; v. 264; p. 349.
- Skirts, undershirts, dresses. Silverstein Bros. No. 126,481; Aug. 26; v. 265; p. 630.
- Slate, Roofing. John D. Emack Co. No. 127,927; Dec. 16; v. 269; p. 542.
- Slate, Structural. The Structural Slate Company. No. 127,993; Dec. 16; v. 269; p. 543.
- Slippers, Felt. United States Rubber Company. No. 128,271; Dec. 30; v. 269; p. 882.
- Slushing compound for protecting the surfaces of finished metal articles. Durkee-Atwood Co. No. 124,826; Mar. 18; v. 260; p. 555.
- Snap and packet fasteners. Federal Snap Fastener Corporation. Nos. 124,525-6; Feb. 25; v. 259; p. 772.
- Snap and packet fasteners. Federal Snap Fastener Corporation. No. 124,704; Mar. 11; v. 260; p. 386.
- Snap and packet fasteners. Federal Snap Fastener Corporation. No. 125,423; May 20; v. 262; p. 474.
- Snap and packet fasteners. Federal Snap Fastener Corporation. No. 126,154; July 29; v. 264; p. 860.
- Snap and packet fasteners. Federal Snap Fastener Corporation. Nos. 126,416-18; Aug. 26; v. 265; p. 628.
- Snap and packet fasteners. Federal Snap Fastener Corporation. No. 127,391; Nov. 11; v. 268; p. 371.
- Snap-fasteners. American Snap Fastener Co. No. 125,015; Apr. 8; v. 261; p. 405.
- Snap-fasteners. Arkell & Douglas. No. 124,075; Jan. 14; v. 258; p. 443.
- Snap-fasteners. Carr Fastener Company. No. 127,721; Dec. 2; v. 269; p. 185.
- Snap-fasteners. The De Long Hook and Eye Company. No. 127,376; Nov. 11; v. 268; p. 371.
- Snap-fasteners. C. W. Larkin. No. 128,097; Dec. 23; v. 269; p. 698.
- Snap-fasteners. Presto Snap Fastener Co. No. 124,580; Feb. 25; v. 259; p. 773.
- Snap-fasteners. Schein Brothers. No. 125,176; Apr. 15; v. 261; p. 626.
- Snap-fasteners. M. E. Smith & Co. No. 127,990; Dec. 16; v. 269; p. 543.
- Snap fasteners and buttons. G. Lurie. No. 124,200; Jan. 21; v. 258; p. 641.
- Snap-fasteners for dresses. Hughes Mfg. Co. No. 127,062; Oct. 21; v. 267; p. 479.
- Snap-fasteners, hooks, and eyes, hair-pins, &c. A. Steinhart & Bro. No. 124,158; Jan. 14; v. 258; p. 446.
- Soap. Chas. W. Young & Co. No. 124,495; Feb. 18; v. 259; p. 573.
- Soap. Corn Products Refining Co. No. 124,191; Jan. 21; v. 258; p. 641.
- Soap. James S. Kirk & Company. No. 124,549; Feb. 25; v. 259; p. 772.
- Soap. Lahoud Soap Products Company. No. 126,442; Aug. 26; v. 265; p. 629.
- Soap. Lautz Bros. & Co. No. 124,256; Jan. 28; v. 258; p. 810.
- Soap. Lautz Bros. & Co. No. 125,297; May 6; v. 262; p. 165.
- Soap and soap powder. Lever Brothers Company. No. 124,114; Jan. 14; v. 258; p. 444.
- Soap, Complexion-. The Baldwin Perfumery Company. No. 127,319; Nov. 11; v. 268; p. 369.
- Soap, Flaked laundry. The Hewitt Bros. Soap Co. No. 125,140; Apr. 15; v. 261; p. 625.
- Soap, Laundry. W. S. Burns. No. 124,669; Mar. 11; v. 260; p. 385.
- Soap, Laundry. S. S. Kresge Company. No. 127,194; Oct. 21; v. 267; p. 483.
- Soap, Laundry. West Coast Soap Co. No. 127,206; Oct. 21; v. 267; p. 484.
- Soap, (solid and liquid). Mellier Company Perfumer. No. 124,202; Jan. 21; v. 258; p. 641.
- Soap, Toilet. A. S. Hinds. No. 126,432; Aug. 26; v. 265; p. 628.
- Soap, Toilet. Marshall Field & Company. No. 127,393; Nov. 11; v. 268; p. 371.
- Soap, Toilet. Remmers Soap Company. No. 125,167; Apr. 15; v. 261; p. 626.
- Soaps. George Borgfeldt & Co. No. 124,286; Feb. 4; v. 259; p. 177.
- Soaps. J. H. Karp. No. 127,069; Oct. 21; v. 267; p. 479.
- Soaps. C. G. Moller. No. 126,454; Aug. 26; v. 265; p. 629.
- Soaps and scouring and cleaning compounds. Saberton Mfg. Co. No. 124,763; Mar. 11; v. 260; p. 388.
- Soaps and washing-powders. California Soap Company. No. 124,082; Jan. 14; v. 258; p. 443.
- Soaps, Foot-. Thomas Gill Soap Company. No. 126,163; July 29; v. 264; p. 860.
- Soaps for cleaning and scouring textiles. E. Vellner. No. 127,156; Oct. 21; v. 267; p. 482.
- Soaps, Metal-polish-. Purisol Products Corporation. No. 127,114; Oct. 21; v. 267; p. 481.
- Soaps, Perfumed. Crown Perfumery Company. No. 126,406; Aug. 26; v. 265; p. 628.
- Soaps, scouring and cleaning compounds. Saberton Mfg. Co. No. 124,885; Mar. 18; v. 260; p. 557.
- Soaps, Toilet. The Armand Company. No. 125,120; Apr. 15; v. 261; p. 625.
- Soaps, Toilet. F. G. Burke. No. 128,226; Dec. 30; v. 269; p. 881.
- Soaps, Toilet. Thomas Gill Soap Company. No. 124,531; Feb. 25; v. 259; p. 772.
- Socks, Men's. Western Dry Goods Company. No. 124,276; Jan. 28; v. 258; p. 811.
- Soda, baking-powder, laundry blue. J. J. Rogers & Son. No. 124,584; Feb. 25; v. 259; p. 773.
- Soda, granulated lye, chlorinated lime, Caustic. S. S. Wander & Sons Chemical Co. No. 124,622; Feb. 25; v. 259; p. 774.
- Sodium cyanid. Nitrogen Products Company. No. 125,579; May 27; v. 262; p. 643.
- Sodium silicate. Philadelphia Quartz Company. No. 124,937; Mar. 25; v. 260; p. 729.
- Sodium silicate. Philadelphia Quartz Company. No. 125,499; May 20; v. 262; p. 476.
- Sodium silicate. Philadelphia Quartz Company. No. 127,479; Nov. 11; v. 268; p. 374.
- Soil-tilling machines. Dunham Company. No. 127,222; Oct. 28; v. 267; p. 643.
- Solder. Lewis Metals Corporation. No. 127,848; Dec. 9; v. 269; p. 388.
- Solder for precious metals. Baker and Company. No. 126,987; Oct. 21; v. 267; p. 477.
- Solders. Western Electric Company. No. 127,895; Dec. 9; v. 269; p. 390.
- Soles and heels. The Federal Rubber Company. Nos. 126,845-6; Oct. 7; v. 267; p. 178.
- Soles and heels, Composition. Federal Rubber Company. No. 125,001; July 22; v. 264; p. 696.
- Songs with cartoon illustrations, Serial comic. B. Gay. No. 124,093; Jan. 14; v. 258; p. 443.
- Songs with cartoon illustrations, Serial comic. B. Gay. No. 124,380; Feb. 11; v. 259; p. 379.
- Soot-destroyers and chimney-cleaners, Chemical. Canada Witch Company. No. 124,371; Feb. 11; v. 259; p. 379.
- Soot-dissolving powder. Northern Chemical Works. No. 126,457; Aug. 26; v. 265; p. 629.
- Soot from the walls of furnaces, boilers, &c. Powder for dissolving. Northern Chemical Works. No. 125,081; Apr. 8; v. 261; p. 407.
- Soot removing or destroying compound. V. Wright. No. 126,227; July 29; v. 264; p. 862.
- Sound-records, talking-machines, phonographs, &c. Otto Heineman Phonograph Supply Co. No. 126,431; Aug. 26; v. 265; p. 628.
- Soy, (Japanese sauce) M. Kawamori. No. 127,284; Nov. 4; v. 268; p. 187.
- Spark-intensifiers, Certain named. G. E. Colby. No. 124,680; Mar. 11; v. 260; p. 386.
- Spark-plug-firing indicators. Detroit Accessories Corporation. No. 126,146; July 29; v. 264; p. 860.
- Spark-plug insulation. Frenchtown Porcelain Company. No. 124,708; Mar. 11; v. 260; p. 387.
- Spark-plugs. Blomster and Schaben. No. 125,612; June 8; v. 263; p. 161.
- Spark-plugs. A. F. Slebert. No. 126,479; Aug. 26; v. 265; p. 630.
- Spark-plugs. United Manufacturing & Distributing Company. No. 127,154; Oct. 21; v. 267; p. 482.
- Spark-plugs, electric cables, ignition systems, &c. A. J. Picard and Co. No. 127,659; Nov. 18; v. 268; p. 559.
- Spats and overgaiters. Laing, Harrar & Chamberlain. No. 127,569; Nov. 11; v. 268; p. 377.
- Spectacle and eyeglass frames and mountings. Dupaul Young Optical Company. No. 127,381; Nov. 11; v. 268; p. 371.
- Speed-controlling mechanisms for internal-combustion engines. Versal Products Manufacturing Company. No. 126,613; Sept. 23; v. 266; p. 593.
- Spices, Whole, ground, and mixed. M. P. Kuezor & Co. No. 126,307; Aug. 19; v. 265; p. 453.
- Spindles, boring rods and tubes, derricks, Hollow. The British Mannesmann Tube Company. No. 124,290; Feb. 4; v. 259; p. 177.
- Spoons, Teacette-. Onelda Community. No. 126,950; Oct. 14; v. 267; p. 336.
- Sporting goods, Certain named. Northland Ski Manufacturing Co. No. 124,569; Feb. 25; v. 259; p. 773.
- Spray for trees, Contact-. Brown & Gilbert Co. No. 124,506; Feb. 25; v. 259; p. 771.
- Sprays and showers for bath-tubs. S. Bagnulo. No. 126,917; Oct. 14; v. 267; p. 335.



## Alphabetical list of trade-marks—Continued.

- Sprayer, oscillating seeder, staple-puller, Hog-. Nu-Way Manufacturing Co. No. 124,984; Apr. 1; v. 261; p. 198.
- Sprayers for application of liquid moth-preventive, Hand-Phenol Chemical Company. No. 126,569; Sept. 16; v. 266; p. 447.
- Spraying trees, plants, &c., Machines for. The Deming Company. No. 126,410; Aug. 26; v. 265; p. 628.
- Stains for mortars and cement. Peccora Paint Company. No. 124,140; Jan. 14; v. 258; p. 445.
- Stamps and coupons. Trading or discount. Eagle Discount Stamp Co. Nos. 124,376-7; Feb. 11; v. 259; p. 379.
- Stamps or coupons. Trading. A. Wiss. No. 126,113; July 22; v. 264; p. 700.
- Starch. The Keever Starch Co. No. 125,227; Apr. 22; v. 261; p. 796.
- Stationers' supplies. Frank A. Weeks Mfg. Co. No. 126,106; July 22; v. 264; p. 700.
- Stay-bolts, Flexible. American Locomotive Company. No. 126,121; July 29; v. 264; p. 859.
- Steam generators and radiators, fans, &c. Bayley Manufacturing Company. No. 127,581; Nov. 18; v. 268; p. 557.
- Steam-heating apparatus. C. A. Dunham Company. No. 127,926; Dec. 16; v. 269; p. 541.
- Steel. Arthur Balfour & Company. No. 124,661; Mar. 11; v. 260; p. 385.
- Steel. Crucible Steel Company of America. Nos. 125,413-14; May 20; v. 262; p. 474.
- Steel. Crucible Steel Company of America. No. 125,725; June 10; v. 263; p. 327.
- Steel and steel castings, Bar-. Darwin & Milner, Inc. Nos. 127,370-1; Nov. 11; v. 268; p. 371.
- Steel bars and billets. Atkinson and Utech. Nos. 126,509-11; Sept. 16; v. 266; p. 445.
- Steel bars, billets, &c. The Hess Steel Corp. No. 127,055; Oct. 21; v. 267; p. 479.
- Steel, Black and galvanized. Berger Manufacturing Company. No. 125,963; July 22; v. 264; p. 695.
- Steel, Black and galvanized. Berger Manufacturing Company. No. 126,129; July 29; v. 264; p. 859.
- Steel, Finished and unfinished. L. C. Blanche Co. Inc. No. 128,008; Dec. 23; v. 269; p. 695.
- Steel, Magnet. Central Steel & Wire Co. No. 127,010; Oct. 21; v. 267; p. 478.
- Steel, Manganese. Taylor-Wharton Iron and Steel Co. No. 125,257; Apr. 22; v. 261; p. 797.
- Steel, Tool-. Becker Steel Co. of America. No. 126,127; July 29; v. 264; p. 859.
- Steel-wool. The Ridgely Trimmer Company. No. 127,489; Nov. 11; v. 268; p. 374.
- Steelware, Enameled. A. S. Kohler. No. 127,567; Nov. 11; v. 268; p. 377.
- Sterilizers for laboratory and surgical work. Winot Castle Company. No. 124,916; Mar. 18; v. 260; p. 558.
- Stock feed. Edgar-Morgan Company. No. 125,633; June 3; v. 263; p. 162.
- Stone. Artificial. Simpson Bros. Corporation. No. 128,174; Dec. 23; v. 269; p. 700.
- Stone, Building-. Michael Cohen & Co. No. 128,035; Dec. 23; v. 269; p. 696.
- Stools, chairs, tables, &c., for factory use. Angle Steel Stool Co. No. 126,984; Oct. 21; v. 267; p. 477.
- Stoppers, Cork. International Cork Company. No. 127,065; Oct. 21; v. 267; p. 479.
- Storage batteries. Hacking Mfg. Co. No. 127,616; Nov. 18; v. 268; p. 558.
- Storepipe-elbows and stoves. Hemp & Co. (Corp.). No. 124,716; Mar. 11; v. 260; p. 387.
- Stoves, coolers, ventilators. H. McKinnie. No. 128,114; Dec. 23; v. 269; p. 698.
- Stoves, plumbers' furnaces, &c., Cooking-. American Stove Company. No. 126,623; Sept. 30; v. 266; p. 733.
- Stoves, ranges, and furnaces. Wood, coal, gas, oil, and vapor. Minnesota Stove Co. No. 124,127; Jan. 14; v. 258; p. 444.
- Strainers used in water distribution. Fairmont Mining Machinery Company. No. 127,829; Dec. 9; v. 269; p. 387.
- Strawberries, blackberries, cherries, &c., Fresh. Ozark Fruit Grower's Association. No. 125,496; May 20; v. 262; p. 476.
- Sugar. American Sugar Refining Company. No. 126,624; Sept. 30; v. 266; p. 733.
- Sugar, Maple-. R. B. Kingman. No. 126,868; Oct. 7; v. 267; p. 178.
- Suitcases, grips, and hand-bags. J. W. Eichenbusch Co. No. 125,211; Apr. 22; v. 261; p. 795.
- Suits and furnishings, Ladies' and gentlemen's. Bertex Distributing Co. No. 127,329; Nov. 11; v. 268; p. 369.
- Suits and outer clothing, Men's and boys'. Rosenthal & Goldberg. No. 128,164; Dec. 23; v. 269; p. 700.
- Suits and overcoats, Men's and boys'. Sindel, Stern & Co. Nos. 126,905-6; Oct. 7; v. 267; p. 179.
- Suits, Boys' outer. Rogers Peet Company. No. 126,894; Oct. 7; v. 267; p. 179.
- Suits, coats, blouses, and shirts of outer wearing-apparel. C. W. Wolfe. No. 128,207; Dec. 23; v. 269; p. 701.
- Suits for infants and children. S. Schwab. No. 127,498; Nov. 11; v. 268; p. 375.
- Suits for men and boys. House of Mitchell. No. 126,863; Oct. 7; v. 267; p. 178.
- Suits, Ladies' outer. J. A. Goldstein. No. 125,052; Apr. 8; v. 261; p. 406.
- Suits, Men's outer. J. T. Hollenbach. No. 125,291; May 6; v. 262; p. 165.
- Suits of outer wearing-apparel. C. W. Wolfe. No. 127,558; Nov. 11; v. 268; p. 377.
- Suits, overcoats, neckties, shirts, hats, Men's. The Gaylord Stores Company. No. 124,238; Jan. 28; v. 258; p. 809.
- Suits, overcoats, pants, Men's. Lieberman Mfg. Co. No. 125,069; Apr. 8; v. 261; p. 406.
- Suits, skirts, gloves, &c., for women and misses. J. A. Migol, Inc. No. 127,447; Nov. 11; v. 268; p. 373.
- Sulfate of copper, blue vitriol, or blue-stone. Nicholas Copper Co. No. 124,374; Feb. 11; v. 259; p. 379.
- Sulfonic acids and their salts. S. Rosenblatt. No. 125,096; Apr. 8; v. 261; p. 407.
- Sulfuret of antimony and zinc oxid. States Metals Company. No. 124,778; Mar. 11; v. 260; p. 389.
- Suppositories, Vaginal. W. C. Schalek. No. 124,586; Feb. 25; v. 259; p. 773.
- Surgical appliances. Steiner & Grosse Mfg. Co. No. 126,969; Oct. 14; v. 267; p. 336.
- Surgical, dental, and veterinary instruments. J. Sklar Manufacturing Co. No. 126,579; Sept. 16; v. 266; p. 447.
- Surgical devices to compress the flesh. W. H. Fitz Gerald. No. 125,733; June 10; v. 263; p. 327.
- Surgical dressing. Scott Paper Company. No. 126,962; Oct. 14; v. 267; p. 336.
- Surgical dressings. Kimberly-Clark Co. No. 126,706; Sept. 30; v. 266; p. 735.
- Surgical instruments and parts for same. Doniger & Company. No. 124,521; Feb. 25; v. 259; p. 771.
- Suspenders. Berkowitz & Lobel. Nos. 125,887-8; July 1; v. 264; p. 153.
- Sweaters. A. Adie. No. 126,947; July 22; v. 264; p. 695.
- Sweaters. John H. Lansing & Co. No. 127,077; Oct. 21; v. 267; p. 480.
- Sweaters. Max Mayer & Sons Co. No. 126,880; Oct. 7; v. 267; p. 179.
- Sweaters, headwear, underwear. Keet and Rountree Dry Goods Co. No. 125,275; Apr. 29; v. 261; p. 953.
- Sweaters, stockings, hats, shoes and overshoes, night-shirts, &c. Elder Manufacturing Co. No. 128,052; Dec. 23; v. 269; p. 696.
- Swimming or bathing devices. Regina Swimming Devices Co. No. 127,483; Nov. 11; v. 268; p. 374.
- Syringes and metallic washers for the same. A. Bandman. No. 125,557; May 27; v. 262; p. 643.
- Syrup, Cane and corn combined. Dothan Syrup Co. No. 125,042; Apr. 8; v. 261; p. 406.
- Syrup, Cane and maple. Vermont Maple Syrup Company. No. 124,902; Mar. 18; v. 260; p. 558.
- Syrup, canned tomatoes, coffee, &c., Maple-. J. M. Simmons. No. 127,512; Nov. 11; v. 268; p. 375.
- Syrup, Cereal. A. A. Busch. No. 127,004; Oct. 21; v. 267; p. 477.
- Syrup, raspberry jelly, &c., Pancake-. Fargo Food Products Co. No. 125,567; May 27; v. 262; p. 643.
- Syrup, Table-. J. R. Cary. No. 127,585; Nov. 18; v. 268; p. 557.
- Syrup, Table-. Nulomoline Company. No. 127,859; Dec. 9; v. 269; p. 388.
- Syrup, Table-. Oelerich & Berry Co. No. 124,868; Mar. 18; v. 260; p. 556.
- Tablet. Morgan Drug Company of the City of Brooklyn. No. 127,640; Nov. 18; v. 268; p. 559.
- Tablet, Headache. Herman Bros. Company. No. 126,695; Sept. 30; v. 266; p. 735.
- Tablet, Medicinal. Asplitone Co. No. 124,362; Feb. 11; v. 259; p. 379.
- Tablets and compound, Washing. Delbare Manufacturing Co. No. 126,408; Aug. 26; v. 265; p. 628.
- Tablets and medicines. Pepsotone Company. No. 128,151; Dec. 23; v. 269; p. 699.
- Tablets and type-writer paper. Certain named writing. Western Tablet Company. No. 124,912; Mar. 18; v. 260; p. 558.
- Tablets, Concentrated vegetable soup and purée, &c. A. F. Du Pont. No. 127,025; Oct. 21; v. 267; p. 478.
- Tablets, Dyspepsia-. A. J. Filer. No. 126,419; Aug. 26; v. 265; p. 628.
- Tablets for liver and stomach troubles, Medicinal. Doster-Northington Drug Co. No. 127,602; Nov. 18; v. 268; p. 558.
- Tablets for treatment of la grippe and colds. Ozark Medicine Company. No. 125,162; Apr. 15; v. 261; p. 626.
- Tablets for treatment of the skin, Emollient. F. W. Hampshire & Co. No. 125,809; June 17; v. 263; p. 478.
- Tablets, Indigestion-. Abbott Chemical Co. No. 125,012; Apr. 8; v. 261; p. 405.
- Tablets, Laxative. The Casco Company. No. 127,176; Oct. 21; v. 267; p. 483.
- Tablets, Laxative. Gilbert-Co. No. 124,927; Mar. 25; v. 260; p. 729.

- Tablets, Medicated. C. F. Eichardt. No. 124,523; Feb. 25; v. 259; p. 771.
- Tablets, Mouth and throat antiseptic. H. Mocenter. No. 125,665; June 3; v. 263; p. 162.
- Tablets, Poultry tonic. Burrell-Dugger Co. No. 127,002; Oct. 21; v. 267; p. 477.
- Tablets, Purgative liver-. Caloids Company. No. 125,722; June 10; v. 263; p. 327.
- Tableware, Base-alloy. International Silver Company. No. 126,699; Sept. 30; v. 266; p. 735.
- Tableware of precious or plated metals. John Russell Cutlery Company. No. 126,473; Aug. 26; v. 265; p. 630.
- Tabulating-machines. Denominator Adding Machine Company. No. 126,145; July 29; v. 264; p. 859.
- Tag holders, Price and article. Sherer-Gillett Co. No. 127,987; Dec. 16; v. 269; p. 543.
- Tag holders, Removable price and article. Sherer-Gillett Co. No. 126,211; July 29; v. 264; p. 861.
- Talc and mica, Powdered. Northwestern Chemical Co. No. 125,494; May 20; v. 262; p. 476.
- Talc and mica, Powdered. The Northwestern Chemical Co. No. 127,463; Nov. 11; v. 268; p. 374.
- Talc and toilet powder, Baby. Avri Chemical Company, Inc. No. 126,633; Sept. 30; v. 266; p. 733.
- Talking-boards. Wilder Manufacturing Company. No. 128,000; Dec. 16; v. 269; p. 544.
- Talking-machine and phonograph cabinets. Sonora Phonograph Corporation. No. 125,680; June 3; v. 263; p. 163.
- Talking-machine and phonograph needles. Otto Heineman Phonograph Supply Co. No. 127,658; Nov. 18; v. 268; p. 559.
- Talking-machine records. Otto Heineman Phonograph Supply Co. No. 124,138; Jan. 14; v. 258; p. 445.
- Talking-machines. Hiawatha Phonograph Co. No. 127,056; Oct. 21; v. 267; p. 479.
- Talking-machines, parts thereof, needles, records, and mechanical motors. Sterling Phonograph Co. No. 124,208; Jan. 21; v. 258; p. 641.
- Talking-machines, phonographs, &c. Otto Heineman Phonograph Supply Co. No. 124,831; Mar. 18; v. 260; p. 555.
- Talking-machines, phonographs, &c. Sonora Phonograph Corporation. Nos. 124,887-90; Mar. 18; v. 260; p. 557.
- Talking-machines, phonographs, &c. Sonora Phonograph Corporation. No. 127,687; Nov. 18; v. 268; p. 560.
- Talking-machines, phonographs, &c. The Wilcox & White Co. No. 124,915; Mar. 18; v. 260; p. 558.
- Talking-machines, phonographs, gramophones, &c. Sonora Phonograph Corporation. No. 125,312; May 6; v. 262; p. 166.
- Talking-machines, phonographs, &c. Sonora Phonograph Sales Company. No. 126,089; July 22; v. 264; p. 699.
- Talking-machines, sound-boxes, and record-ejectors. Dixie Phonograph Company. No. 127,600; Nov. 18; v. 268; p. 558.
- Tallow, refined peanut, &c., oils used as food and ingredients of foods. J. Telenga Export & Trading Corporation. No. 124,163; Jan. 14; v. 258; p. 446.
- Tape, Adhesive. F. Rizik. No. 125,839; June 17; v. 263; p. 479.
- Tape-moisteners. Rice Gummed Products Company. No. 124,409; Feb. 11; v. 259; p. 380.
- Tapers, Night-. P. A. Beatty. No. 125,717; June 10; v. 263; p. 327.
- Tea. Hills Bros. No. 127,191; Oct. 21; v. 267; p. 483.
- Tea. Irwin-Harrisons & Crosfield. No. 124,725; Mar. 11; v. 260; p. 387.
- Teas. Reilly-Taylor Company. No. 126,340; Aug. 19; v. 265; p. 454.
- Tea. Park & Tilford. No. 124,872; Mar. 18; v. 260; p. 557.
- Tea. Park & Tilford. No. 124,987; Apr. 1; v. 261; p. 198.
- Tea, coffee, rice. Berdan and Company. No. 124,812; Mar. 18; v. 260; p. 555.
- Teas, mustard, coffee, &c. Meyer Bros. Coffee and Spice Co. No. 127,639; Nov. 18; v. 268; p. 559.
- Teeth and dental articulators, Artificial. H. D. Justi & Son. No. 125,226; Apr. 22; v. 261; p. 796.
- Teeth and dental articulators, Artificial. H. D. Justi. No. 125,658; June 3; v. 263; p. 162.
- Teeth, mouth, nose, and throat, Germicidal solution for. Sanativo Co. No. 127,677; Nov. 18; v. 268; p. 560.
- Teeth, Preparation for treatment of canals in. Platifrice Chemical Company. No. 124,578; Feb. 25; v. 259; p. 773.
- Telephones and parts thereof. Stentor Electric Manufacturing Co. No. 124,347; Feb. 4; v. 259; p. 179.
- Telephone-brackets. American Electric Co. No. 127,574; Nov. 18; v. 268; p. 557.
- Tennis-rackets. F. L. Slazenger. No. 125,679; June 3; v. 263; p. 163.
- Test-indicators. H. A. Lowe. No. 127,438; Nov. 11; v. 268; p. 373.
- Textile fabrics. W. R. Grace & Co. No. 125,337; May 13; v. 262; p. 309.
- Textile fabrics. W. R. Grace & Co. Nos. 126,541-5; Sept. 16; v. 266; p. 446.
- Textile fabrics. Pennsylvania Textile Mills. No. 128,148; Dec. 23; v. 269; p. 699.
- Textile fibers. S. S. Boyce. No. 124,154; Jan. 14; v. 258; p. 445.
- Textile goods for underwear. Fairfax Textile Mills. No. 125,728; June 10; v. 263; p. 327.
- Textile-industry machinery, Certain named. Curtis & Marble Machine Co. No. 126,407; Aug. 26; v. 265; p. 628.
- Textiles. Snows, Ltd. No. 124,996; Apr. 1; v. 261; p. 198.
- Textiles, Coated. The Cotex Company. No. 124,230; Jan. 28; v. 258; p. 809.
- Thermometers. Dorfmann Bros. No. 127,024; Oct. 21; v. 267; p. 478.
- Thermometers. H. Weinlagen. No. 125,694; June 3; v. 263; p. 163.
- Thread. The Clark Thread Co. No. 125,031; Apr. 8; v. 261; p. 405.
- Thread and yarn. Naamlooze Vennootschap; J. A. Carp's Garenfabrieken. No. 127,095; Oct. 21; v. 267; p. 480.
- Thread and yarn. Naamlooze Vennootschap; J. A. Carp's Garenfabrieken. Nos. 127,645-51; Nov. 18; v. 268; p. 559.
- Thread and yarn. Nonotuck Silk Company. No. 127,100; Oct. 21; v. 267; p. 480.
- Thread and yarn. Nonotuck Silk Company. No. 127,462; Nov. 11; v. 268; p. 374.
- Thread and yarn. Cotton. Acadia Mills. No. 124,567; Feb. 25; v. 259; p. 773.
- Thread, Cotton. The Clark Thread Co. No. 125,897; July 8; v. 264; p. 349.
- Thread, Linen. Barbour Brothers Co. No. 127,320; Nov. 11; v. 268; p. 369.
- Thread-waxing compound. The Ceroxylon Company. No. 126,399; Aug. 26; v. 265; p. 627.
- Thread, yarn, &c. I. Fleisher & Sons. No. 126,681; Sept. 30; v. 266; p. 735.
- Threads and yarns. Dollfus-Mieg & Cie. Societe Anonyme. Nos. 127,922-5; Dec. 16; v. 269; p. 541.
- Threads and yarns, Certain named. Priscilla Publishing Co. No. 125,502; May 20; v. 262; p. 476.
- Threads and yarns. Certain named. Richardson Silk Company. No. 125,881; June 24; v. 263; p. 631.
- Threads and yarns. Textile. Domestic Mills Company. No. 125,867; June 24; v. 263; p. 631.
- Thrashing-machines. Minneapolis Steel & Machinery Company. No. 127,449; Nov. 11; v. 268; p. 373.
- Ticket-dispensing machines. J. F. Dwyer. Nos. 127,026-8; Oct. 21; v. 267; p. 478.
- Tickets, Clothing-. Keller Printing Company. No. 125,905; July 8; v. 264; p. 349.
- Ties and cravats, Men's. C. W. Zehnbauser. No. 127,561; Nov. 11; v. 268; p. 377.
- Ties, cravats, four-in-hand and bow-ties. Friedman Bros. & Son Neckwear Company. No. 125,734; June 10; v. 263; p. 327.
- Tiling, Floor-. Armstrong Cork Company. No. 128,219; Dec. 23; v. 269; p. 701.
- Tire accessories, Certain named pneumatic-. Ajax Rubber Company. No. 124,648; Mar. 11; v. 260; p. 385.
- Tire accessories, Pneumatic-. Ajax Rubber Company. No. 124,068; Jan. 14; v. 258; p. 443.
- Tire and tube patches, Pneumatic. Motor Car Supply Co. No. 127,971; Dec. 16; v. 269; p. 543.
- Tire casings, Rubber-. General Tire & Rubber Company. No. 128,069; Dec. 23; v. 269; p. 697.
- Tire-patch. L. H. Scott. No. 125,678; June 3; v. 263; p. 163.
- Tire patch kits, Automobile-. Schisler Brothers. No. 126,207; July 29; v. 264; p. 861.
- Tire, &c., patch, Pneumatic-. Blanton Rubber and Manufacturing Co. No. 128,009; Dec. 23; v. 269; p. 695.
- Tire-patches. M. J. Cagle. No. 124,223; Jan. 28; v. 258; p. 809.
- Tire-patches. W. M. Prince. No. 125,675; June 3; v. 263; p. 163.
- Tire-patches, Self-vulcanizing. Kant Slip Company. No. 127,068; Oct. 21; v. 267; p. 479.
- Tire-powder. H. M. Olson. Nos. 127,976-7; Dec. 16; v. 269; p. 543.
- Tire pumps, Automobile-. Sidel Rattner Manufacturing Company. No. 126,081; July 22; v. 264; p. 699.
- Tire-puncture-curing compound, Pneumatic. J. Mangus. No. 126,945; Oct. 14; v. 267; p. 336.
- Tire-puncture-sealing compositions, Pneumatic-. D. S. Mumfrey. No. 125,666; June 3; v. 263; p. 163.
- Tire-repair outfits and tire-patches. Huff and Cutler. No. 127,061; Oct. 21; v. 267; p. 479.
- Tires and inner tubes, Exceller Tire & Rubber Co. No. 127,932; Dec. 16; v. 269; p. 542.
- Tires and inner tubes, Automobile rubber. M. Greenspan. No. 128,076; Dec. 23; v. 269; p. 697.
- Tires and inner tubes, Bicycle. Simmons Hardware Company. No. 128,169; Dec. 23; v. 269; p. 700.
- Tires and inner tubes for pneumatic tires, Vehicle-. Racine Auto Tire Company. No. 128,153; Dec. 23; v. 269; p. 699.
- Tires and inner tubes, Rubber. Hanes Rubber Company. No. 127,948; Dec. 16; v. 269; p. 542.
- Tires and tubes, Automobile rubber. Times Square Auto Supply Co. No. 127,149; Oct. 21; v. 267; p. 482.



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- Tires and tubes for pneumatic tires, Rubber. The Ideal Tire & Rubber Company. No. 125,656; June 3; v. 263; p. 162.
- Tires and tubes for vehicles. The Brunswick-Balke-Coller Company. No. 125,025; Apr. 8; v. 261; p. 405.
- Tires, Containers for packaging rubber. E. J. Young. No. 125,544; May 20; v. 262; p. 478.
- Tires, Fabric coverings for rubber. George W. Eno Rubber Co. No. 128,058; Dec. 23; v. 269; p. 696.
- Tires, Inner tubes for pneumatic. Stearns Tire & Tube Company. No. 125,918; July 8; v. 264; p. 350.
- Tires, Inner tubes, tire-repair kits, Pneumatic rubber. Chicago Cycle Supply Company. No. 124,442; Feb. 18; v. 259; p. 571.
- Tires, Liquid preparation for closing holes in pneumatic. L. M. Sutton. No. 125,101; Apr. 8; v. 261; p. 407.
- Tires, Pneumatic. Kelly-Springfield Tire Company. No. 126,302; Aug. 19; v. 265; p. 453.
- Tires, Pneumatic. Perfection Tire & Rubber Co. No. 125,911; July 8; v. 264; p. 349.
- Tires, Pneumatic rubber. W. L. Mitten. No. 127,969; Dec. 16; v. 269; p. 543.
- Tires, Retreaded rubber and fabric. Bell 2 in 1 Tyre Co. No. 125,019; Apr. 8; v. 261; p. 405.
- Tires, Rubber. Demas Armor-Cased Tire Saving Co. No. 128,044; Dec. 23; v. 269; p. 696.
- Tires, Rubber. Fisk Rubber Company. No. 128,063; Dec. 23; v. 269; p. 697.
- Tires, Rubber. Ford Motor Company. No. 125,702; June 3; v. 263; p. 164.
- Tires, Rubber. A. Holcomb. No. 128,085; Dec. 23; v. 269; p. 697.
- Tires, Rubber. Liberty Tire & Rubber Company. No. 128,106; Dec. 23; v. 269; p. 698.
- Tires, Rubber. Mayflower Rubber Works Co. No. 128,122; Dec. 23; v. 269; p. 698.
- Tires, Rubber. The National Tire & Rubber Company. No. 124,756; Mar. 11; v. 260; p. 388.
- Tires, Rubber. Republic Rubber Tire & Shoe Co. No. 128,160; Dec. 23; v. 269; p. 699.
- Tires, tire-casings, and inner tubes, Rubber. Republic Rubber Corporation. No. 127,118; Oct. 21; v. 267; p. 481.
- Tobacco and cigarettes, Smoking. R. J. Reynolds Tobacco Company. No. 126,760; Sept. 30; v. 266; p. 737.
- Tobacco-distillate. Lloyd Brothers. No. 124,641; Mar. 4; v. 260; p. 197.
- Tobacco, Leaf. Lockett-Wake Tobacco Co. No. 126,178; July 29; v. 264; p. 860.
- Tobacco products. Minnesota Tobacco Company. No. 125,475; May 20; v. 262; p. 476.
- Tobacco, Smoking. Larus & Brother Company. Nos. 128,094-5; Dec. 23; v. 269; p. 697.
- Tobacco, Smoking and chewing. Christian Peper Tobacco Co. No. 124,511; Feb. 25; v. 259; p. 771.
- Tobaccos and cigarettes. Franco-American Cigarette & Tobacco Co. No. 127,742; Dec. 2; v. 269; p. 186.
- Toilet creams, &c. Tokalon, Inc. No. 127,889; Dec. 9; v. 269; p. 389.
- Toilet preparation. Charmant Specialty Co. No. 128,033; Dec. 23; v. 269; p. 696.
- Toilet preparations. O. E. Schrock. No. 126,477; Aug. 26; v. 265; p. 630.
- Toilet preparations. Certain named. Harriet Hubbard Ayer. Nos. 126,382-4; Aug. 26; v. 265; p. 627.
- Toilet preparations. Certain named. Mellier Company Perfumer. No. 124,122; Jan. 14; v. 258; p. 444.
- Toilet water, talcum powder, rouge, &c. Mangan & Co. No. 124,118; Jan. 14; v. 258; p. 444.
- Tomato paste. Emmolo Bros. No. 125,134; Apr. 15; v. 261; p. 625.
- Tomato paste, Concentrated. Italian Food Products Co. No. 125,058; Apr. 8; v. 261; p. 406.
- Tomato pulp. Salsina Canning & Packing Co. No. 126,074; July 22; v. 264; p. 699.
- Tomatoes, Fresh. P. W. Coppersmith & Co. No. 125,330; May 13; v. 262; p. 309.
- Tongs for lifting ice-cream cans. F. Mullen. No. 127,452; Nov. 11; v. 268; p. 373.
- Tonic. G. W. Carnrick Co. No. 126,650; Sept. 30; v. 266; p. 734.
- Tonic. J. W. Kidd. No. 126,174; July 29; v. 264; p. 860.
- Tonic. L. M. Rogers. No. 124,585; Feb. 25; v. 259; p. 773.
- Tonic. W. P. Saunders. No. 127,129; Oct. 21; v. 267; p. 481.
- Tonic, &c. William O. Frailey & Sons. No. 127,833; Dec. 9; v. 269; p. 388.
- Tonic, Analgesic. The Bayer Company. No. 126,635; Sept. 30; v. 266; p. 733.
- Tonic and alternative, Stomach. D. H. Fulton & Bro. No. 124,709; Mar. 11; v. 260; p. 387.
- Tonic and appetizer, Laxative. Celro-Kola Co. No. 126,657; Sept. 30; v. 266; p. 734.
- Tonic and blood-purifier. Paramount Drug Co. No. 125,303; May 6; v. 262; p. 165.
- Tonic and conditioner for hogs only. Avalon Farms Company. No. 125,956; July 22; v. 264; p. 695.
- Tonic and medicinal preparation, General. J. C. Ayer Co. No. 126,387; Aug. 26; v. 265; p. 627.
- Tonics and ointments for external use. J. G. Roman. No. 124,939; Mar. 25; v. 260; p. 729.
- Tonic and pulmonary medicine and tonic, Cerebral. Uriel Medicine Co. No. 126,797; Sept. 30; v. 266; p. 738.
- Tonic and system-purifier, General. C. M. Gaines. No. 126,283; Aug. 19; v. 265; p. 452.
- Tonic, Eliminative. American Pharmaceutical Co. No. 125,322; May 13; v. 262; p. 309.
- Tonic for internal use, Medicinal nutritive. F. W. Peterson. No. 127,477; Nov. 11; v. 268; p. 374.
- Tonic for poultry and other animals. G. W. Lausmann Remedy Co. No. 124,317; Feb. 4; v. 259; p. 178.
- Tonic, Laxative. Blackburn Products Co. No. 126,247; Aug. 19; v. 265; p. 451.
- Tonic, Laxative. T. A. Haughton. No. 128,242; Dec. 30; v. 269; p. 881.
- Tonic, Medicinal. Blackburn Products Co. No. 126,246; Aug. 19; v. 265; p. 451.
- Tonic, Medicinal. Fritts & Wlehl Company. No. 127,043; Oct. 21; v. 267; p. 479.
- Tonic, Medicinal. Wm. R. Warner & Company. No. 126,104; July 22; v. 264; p. 700.
- Tonic, Nerve. Intravenous Products Company. No. 127,748; Dec. 2; v. 269; p. 186.
- Tonic or medicinal beverage for colds, &c. D. Shusta. No. 126,213; July 29; v. 264; p. 862.
- Tonic, Reconstructive. H. Bocker. No. 126,643; Sept. 30; v. 266; p. 733.
- Tonic, Strengthening. Frederick Stearns & Company. No. 126,788; Sept. 30; v. 266; p. 738.
- Tonic to alleviate neurasthenia, &c. Italian Drugs Importing Co. No. 126,022; July 22; v. 264; p. 697.
- Tool-holders for lathes, planers, &c. Green Bay Drive Calk Co. No. 127,051; Oct. 21; v. 267; p. 479.
- Tools and supplies, Painters', &c. Ridgely Trimmer Company. No. 127,245; Oct. 28; v. 267; p. 644.
- Tools, Mechanics'. The Forged Products Co. No. 127,831; Dec. 9; v. 269; p. 388.
- Tooth-filling materials. Garhart Dental Specialty Company. No. 124,840; Mar. 18; v. 260; p. 556.
- Tooth-paste. Iodent Chemical Company. No. 127,621; Nov. 18; v. 268; p. 558.
- Tooth-paste, Antiseptic. Chemists Co. of New York. No. 124,675; Mar. 11; v. 260; p. 386.
- Tooth-powder and germicide for treatment of the gums and teeth. H. R. Brown. No. 124,291; Feb. 4; v. 259; p. 177.
- Torches, Welding and cutting. Burdett Oxygen Company. No. 126,591; Sept. 23; v. 266; p. 593.
- Towel and towels, Cotton crash. Boott Mills. No. 126,184; July 29; v. 264; p. 861.
- Towels, table linen, covers, and napkins. G. F. Simmons. No. 125,522; May 20; v. 262; p. 477.
- Toy animals and birds mounted on wheels. J. M. Lewis. No. 126,558; Sept. 16; v. 266; p. 446.
- Toy blocks. Ralo Toy Company. No. 127,115; Oct. 21; v. 267; p. 481.
- Toy cut-outs and blocks. J. W. Elvyn. No. 124,445; Feb. 18; v. 259; p. 571.
- Toy dolls. J. L. Friedman. No. 126,159; July 29; v. 264; p. 860.
- Toy dolls. J. L. Friedman. No. 127,183; Oct. 21; v. 267; p. 483.
- Toy figures. G. W. Bonte. No. 127,904; Dec. 16; v. 269; p. 541.
- Toy furniture. Wallie Dorr Company. No. 127,380; Nov. 11; v. 268; p. 371.
- Toy railway-cars. J. W. Cammack, M. Halbman, and J. G. Hemmen. No. 124,224; Jan. 28; v. 258; p. 809.
- Toy soldiers and pistols and games played by means of same. Milton Bradley Co. No. 126,189; July 29; v. 264; p. 861.
- Toy vehicles. F. E. Maxwell. No. 126,182; July 29; v. 264; p. 861.
- Toy wagons, wheelbarrows, and carts. Dayton Toy & Specialty Co. No. 128,042; Dec. 23; v. 269; p. 696.
- Toy well-houses. C. E. Bock. No. 127,335; Nov. 11; v. 268; p. 370.
- Toy whistles, rattles, dominoes, &c. Celluloid Company. No. 127,586; Nov. 18; v. 268; p. 557.
- Toy, Wooden. The Toy Tinkers. No. 125,591; May 27; v. 262; p. 644.
- Toys. Ferdinand Strauss, Inc. No. 127,992; Dec. 16; v. 269; p. 543.
- Toys and sporting goods, Certain named. A. G. Spalding & Bros. No. 126,351; Aug. 19; v. 265; p. 454.
- Toys, Certain named. Zadok Feldstein Co. No. 126,373; Aug. 19; v. 265; p. 455.
- Toys, Child's wheeled push. R. C. Lee. No. 124,553; Feb. 25; v. 259; p. 772.
- Toys, Wooden. T. R. Thompson. No. 126,097; July 22; v. 264; p. 699.
- Tractors. V. F. Deckert. No. 126,663; Sept. 30; v. 266; p. 734.
- Tractors, Fairbanks, Morse & Co. No. 124,302; Feb. 4; v. 259; p. 177.
- Tractors. J. M. Kroyer. No. 126,555; Sept. 16; v. 266; p. 446.
- Tractors. S. C. Pandolfo. No. 127,778; Dec. 2; v. 269; p. 187.
- Tractors, Wichita Falls Motor Co. No. 124,356; Feb. 4; v. 259; p. 179.
- Tractors and parts thereof. The Cleveland Tractor Company. No. 126,401; Aug. 26; v. 265; p. 627.

- Tractors and parts thereof. The Oliver Tractor Company. No. 124,136; Jan. 14; v. 258; p. 445.
- Tractors and soil-pulverizers. Hession Tiller & Tractor Corporation. No. 127,415; Nov. 11; v. 268; p. 372.
- Tractors and tractor parts. The General Ordnance Company. No. 127,834; Dec. 9; v. 269; p. 388.
- Tractors, Farm. The Columbus Tractor Co. No. 124,683; Mar. 11; v. 260; p. 386.
- Tractors, Farm. Craig Tractor Company. No. 127,016; Oct. 21; v. 267; p. 478.
- Trade paper. E. F. Houghton & Co. No. 124,386; Feb. 11; v. 259; p. 380.
- Transmission and brake fabric linings. Advance Automobile Accessories Corporation. No. 125,699; June 3; v. 263; p. 164.
- Traps, Game. Oneida Community, Limited. No. 128,146; Dec. 23; v. 269; p. 699.
- Trees. Buckeye Nurseries. No. 127,340; Nov. 11; v. 268; p. 370.
- Trees, shrubs, roses, &c. Harrison Nursery Co. No. 124,383; Feb. 11; v. 259; p. 379.
- Trousers, aprons, jackets, caps, shirts. Abbot Jacket Manufacturing Company. No. 124,212; Jan. 28; v. 258; p. 809.
- Trousers, Men's. Nelson Pants Co. No. 127,457; Nov. 11; v. 268; p. 373.
- Trucks and automobile-trailers, Motor. Moreland Motor Truck Co. No. 127,451; Nov. 11; v. 268; p. 373.
- Trucks and trailers, Motor. Stability Motors Company. No. 125,917; July 8; v. 264; p. 349.
- Trucks, Automobile. The Elwell-Parker Electric Company. No. 124,447; Feb. 18; v. 259; p. 571.
- Trucks, Automobile and motor. Velle Motors Corporation. No. 128,193; Dec. 23; v. 269; p. 700.
- Trucks, Motor. Harvey Motor Truck Company. No. 128,081; Dec. 23; v. 269; p. 697.
- Trucks, Motor. Rainier Motor Corporation. No. 128,155; Dec. 23; v. 269; p. 699.
- Trucks, Motor. Traffic Motor Truck Corporation. No. 126,914; Oct. 7; v. 267; p. 180.
- Trucks, Motor. Traffic Motor Truck Corporation. No. 127,522; Nov. 11; v. 268; p. 376.
- Trunks. National Veneer Products Company. No. 126,044; July 22; v. 264; p. 698.
- Trunks. National Veneer Products Company. No. 126,323; Aug. 19; v. 265; p. 453.
- Trunks and cases for containing and displaying merchandise. The Kaynce Company. No. 124,849; Mar. 18; v. 260; p. 556.
- Trunks, hand-bags, &c. G. Kluhe. No. 126,305; Aug. 19; v. 265; p. 453.
- Trunks, traveling-bags, valises. S. Rosenstroch. No. 126,573; Sept. 16; v. 266; p. 447.
- Tube cleaners, Boiler and condenser. C. W. Matthews. No. 127,853; Dec. 9; v. 269; p. 388.
- Tubes and rubber tires for vehicles, Inner. Mayflower Rubber Works Company. No. 128,123; Dec. 23; v. 269; p. 698.
- Tubing, Steel. U. T. Hungerford Brass & Copper Co. No. 127,843; Dec. 9; v. 269; p. 388.
- Tweeds. Brill Brothers. No. 128,018; Dec. 23; v. 269; p. 695.
- Twine. Columbian Rope Company. Nos. 125,201-2; Apr. 22; v. 261; p. 795.
- Twine. P. C. Dunham. No. 126,525; Sept. 16; v. 266; p. 445.
- Twine. The Linen Thread Co. No. 124,555; Feb. 25; v. 259; p. 772.
- Type and type-wheels for type-writers, check-writing machines, &c. Imperial Typewriter Company. No. 124,311; Feb. 4; v. 257; p. 178.
- Type-writing machines. Remington Typewriter Company. No. 125,508; May 20; v. 262; p. 477.
- Undergarment, Women's and girls'. L. Hitzeman. No. 125,812; June 17; v. 263; p. 478.
- Undershirts, drawers, union-suits. Way Bros. Manufacturing Company. No. 127,542; Nov. 11; v. 268; p. 376.
- Undershirts, underdrawers, &c. American Hosiery Company. No. 126,819; Oct. 7; v. 267; p. 177.
- Underwear. Francis T. Simmons & Co. No. 126,082; July 22; v. 264; p. 699.
- Underwear. High Rock Knitting Company. No. 128,084; Dec. 23; v. 269; p. 697.
- Underwear. Keith-O'Brien Company. No. 125,456; May 20; v. 262; p. 475.
- Underwear and aprons, Ladies' and children's. Oshkosh Muslin Underwear Co. No. 126,052; July 22; v. 264; p. 698.
- Underwear and socks. Cooper Underwear Company. No. 127,015; Oct. 21; v. 267; p. 478.
- Underwear, Cotton and silk. C. & C. Mfg. Co. No. 127,343; Nov. 11; v. 268; p. 370.
- Underwear, Cotton-mesh. Ideal Linen Mesh Company. No. 124,723; Mar. 11; v. 260; p. 387.
- Underwear, dresses, &c. Children's. H. Rock. No. 126,066; July 22; v. 264; p. 698.
- Underwear for men. Otis Co. No. 126,053; July 22; v. 264; p. 698.
- Underwear, Linen. The Linen Underwear Co. No. 126,872; Oct. 7; v. 267; p. 178.
- Underwear, Linen-mesh. Ideal Linen Mesh Company. No. 126,021; July 22; v. 264; p. 697.
- Underwear, Men's and boys' balbriggan. Wyckoff Knitting Company. No. 125,115; Apr. 8; v. 261; p. 408.
- Underwear—namely, shirts and drawers, Textile. The B. V. D. Company. No. 125,268; Apr. 29; v. 261; p. 953.
- Underwear, nightwear, work-shirts. Sexton Manufacturing Co. No. 127,131; Oct. 21; v. 267; p. 481.
- Underwear, Woven and knitted. N. Hatch. Nos. 124,244-5; Jan. 28; v. 258; p. 810.
- Unguent preparation for skin diseases. U. Matsuura. No. 127,089; Oct. 21; v. 267; p. 480.
- Union-suits, Athletic. Apparel Manufacturing Company. No. 125,952; July 22; v. 264; p. 695.
- Union-suits, Cotton. Charles E. Shedaker & Sons. No. 125,310; May 6; v. 262; p. 166.
- Union-suits, Men's. Segal Brothers. No. 124,263; Jan. 28; v. 258; p. 810.
- Union-suits, Women's athletic. Charles E. Shedaker & Sons. No. 125,520; May 20; v. 262; p. 477.
- Upholstering vehicle-bodies, furniture, &c. Welts or binding used in. The Backstay Machine and Leather Co. No. 124,949; Apr. 1; v. 261; p. 197.
- Upholstery. Marshall Ventilated Mattress Company. No. 127,085; Oct. 21; v. 267; p. 480.
- Vacuum-tube discharge devices. General Electric Company. No. 126,162; July 29; v. 264; p. 860.
- Valve-grinding and neat's-foot clutch and break compounds, &c. Northwestern Chemical Co. No. 127,464; Nov. 11; v. 268; p. 374.
- Valves for general use, Metal air. American Pin Company. No. 126,123; July 29; v. 264; p. 859.
- Valves, Metallic radiator. Commonwealth Brass Corporation. No. 127,217; Oct. 28; v. 267; p. 643.
- Valves, unions, &c. Atlas Valve Company. No. 127,898; Dec. 16; v. 269; p. 541.
- Varnish. The Lowe Brothers Company. No. 125,234; Apr. 22; v. 261; p. 796.
- Varnish. Westcott, Slade & Balcom Company. No. 124,355; Feb. 4; v. 259; p. 179.
- Varnish or preservative coating and varnish-reducer. Sealwood Company. No. 124,766; Mar. 11; v. 260; p. 388.
- Varnish, paints, enamel. E. F. Munday. No. 125,828; June 17; v. 263; p. 478.
- Varnish stains and enamels, varnishes, paint. Valentine & Company. No. 126,224; July 29; v. 264; p. 862.
- Varnishes. J. B. Cornish. No. 125,203; Apr. 22; v. 261; p. 795.
- Varnishes and sanding-fillers. Poughkeepsie Paint Co. No. 126,060; July 22; v. 264; p. 698.
- Varnishes, japans, &c. Floor-Shine Paint & Varnish Co. No. 127,830; Dec. 9; v. 269; p. 387.
- Varnishes, paints, japans, paint-driers. Standard Cooper-Bell Co. No. 126,354; Aug. 19; v. 265; p. 454.
- Varnishes, shellacs, lacquers, and finishes. A. R. Haeuser Co. No. 126,692; Sept. 30; v. 266; p. 735.
- Vegetables, Fresh. W. A. Noltemeyer Co. No. 128,141; Dec. 23; v. 269; p. 699.
- Vehicle-dumping devices. H. Werner. No. 124,804; Mar. 11; v. 260; p. 389.
- Vehicle-tops. Golde-Patent Manufacturing Co. No. 125,873; June 24; v. 263; p. 631.
- Vehicles, Certain named. The British Mannesmann Tube Company. No. 124,815; Mar. 18; v. 260; p. 555.
- Vehicles, Motor. Pierce-Arrow Motor Car Company. Nos. 125,673-4; June 3; v. 263; p. 163.
- Vehicles, Motor. The Pierce-Arrow Motor Car Company. Nos. 127,292-3; Nov. 4; v. 268; p. 188.
- Vehicles, motor-car bodies, Horse-drawn and electric. Healey & Co. No. 126,546; Sept. 16; v. 266; p. 446.
- Vehicles, parts and accessories therefor. Certain named. W. Suckling & Sons. No. 124,478; Feb. 18; v. 259; p. 572.
- Vehicles, Pleasure. Brewster & Co. No. 124,668; Mar. 11; v. 260; p. 385.
- Veilings, nettings, chiffons, &c. Glensder Textile Co. No. 128,072; Dec. 23; v. 269; p. 697.
- Veils and veilings. Fuld, Traube & Co. No. 125,735; June 10; v. 263; p. 327.
- Veils and veiling made of jersey cloth. E. & Z. Van Raalte. No. 126,585; Sept. 16; v. 266; p. 447.
- Veils, hair-nets, combination veils and nets. J. Viret. No. 126,586; Sept. 16; v. 266; p. 447.
- Velveteens. Crompton Company. No. 127,917; Dec. 16; v. 269; p. 541.
- Velvets, Velveteens, &c. Friend & Baruchson. No. 127,942; Dec. 16; v. 269; p. 542.
- Velvets, velveteens, woolen piece goods. D. W. Herrman. No. 124,718; Mar. 11; v. 260; p. 387.
- Ventilators and tin fire-doors, Roof. Falstrom & Tornquist Co. No. 125,871; June 24; v. 263; p. 631.
- Ventilators, Rotary. Kain and Aunger Company. No. 125,344; May 13; v. 262; p. 309.
- Ventilators, Window. The Prismolite Company. No. 127,983; Dec. 16; v. 269; p. 543.
- Veterinary medicines. The Mirolene Co. No. 124,753; Mar. 11; v. 260; p. 388.
- Vinegar. Haarmann Vinegar & Pickle Co. No. 124,968; Apr. 1; v. 261; p. 197.



## Alphabetical list of trade-marks—Continued.

- Vinegar. National Fruit Product Company, Inc. No. 126,728; Sept. 30; v. 266; p. 736.
- Vises, C. & J. Hampton. No. 125,437; May 20; v. 262; p. 474.
- Vises, Velox Vise Co. No. 124,800; Mar. 11; v. 260; p. 389.
- Vises, &c. Utility Machine Appliance Co. No. 126,611; Sept. 23; v. 266; p. 593.
- Wadding for treatment of rheumatism, Medicinal. Pharmaceutische en Chemische Handelsvereniging "Rotterdam." No. 125,939; July 15; v. 264; p. 531.
- Wafer, Laxative. Piedmont Chemical Works. No. 126,058; July 22; v. 264; p. 698.
- Wagon, Coasier. Heider Manufacturing Company. No. 126,011; July 22; v. 264; p. 697.
- Wagon-loaders. Geo. Haiss Mfg. Co. No. 127,839; Dec. 9; v. 269; p. 388.
- Wagons and trailers. The Troy Wagon Works Co. No. 125,105; Apr. 8; v. 261; p. 408.
- Waists and blouses, Shirt. Blaskopf & Co. No. 127,331; Nov. 11; v. 268; p. 369.
- Waists, Dress and shirt. Alfred Beer Co. No. 125,018; Apr. 8; v. 261; p. 405.
- Waists, Ladies'. Ace Waist Co. No. 125,946; July 22; v. 264; p. 695.
- Waists, Ladies'. Kessler Waist Co. No. 128,090; Dec. 23; v. 269; p. 697.
- Waists, skirts, and dresses, cotton-voile waists and dresses, Silk. E. A. Robertson Co. No. 125,308; May 6; v. 262; p. 165.
- Wall-board. Kenmore Wallboard Co. No. 127,756; Dec. 2; v. 269; p. 186.
- Warmers, Bed, body, foot, and food. Taplex Corporation. No. 126,583; Sept. 16; v. 266; p. 447.
- Washing and wringing or extracting machines, Combination. Home Specialty Company. No. 126,547; Sept. 16; v. 266; p. 446.
- Washing compound. A. & A. Underberg. No. 125,685; June 3; v. 263; p. 163.
- Washing compounds. American Soap & Washoline Co. No. 124,655; Mar. 11; v. 260; p. 385.
- Washing machines, Clothes. Crystal Washing Machine Company. No. 126,930; Oct. 14; v. 267; p. 335.
- Washing machines, Laundry. Altorfer Bros. Company. No. 127,572; Nov. 18; v. 268; p. 557.
- Washing machines, Laundry. W. Remmert. No. 128,159; Dec. 23; v. 269; p. 699.
- Washing machines, Laundry. Wash-Easy Company. No. 126,615; Sept. 23; v. 266; p. 593.
- Washing-powder. G. Morrison. No. 125,479; May 20; v. 262; p. 476.
- Washing, wringing, and laundrying machines. The Apex Electrical Mfg. Co. No. 124,436; Feb. 18; v. 259; p. 571.
- Waste, Wiping. Wisconsin Textile By-Products Co. No. 128,206; Dec. 23; v. 269; p. 701.
- Watch-crystals. E. G. Loomis. Nos. 124,855-6; Mar. 18; v. 260; p. 556.
- Watch-glasses. Associated Industries of Japan. No. 125,883; May 20; v. 262; p. 473.
- Watch-movements. National Watch Company. No. 126,045; July 22; v. 264; p. 698.
- Watch stands or holders. The Celluloid Company. Nos. 124,293-4; Feb. 4; v. 259; p. 177.
- Watches and watch-movements. I. Ollendorff Company. No. 126,050; July 22; v. 264; p. 698.
- Watches, clocks, &c. The Celluloid Company. Nos. 126,896-8; Aug. 26; v. 265; p. 627.
- Watches, clocks, and movements therefor. N. H. Brown. No. 126,922; Oct. 14; v. 267; p. 335.
- Watches, watch-movements and parts thereof, watchcases. A. Wittnauer Co. No. 124,806; Mar. 11; v. 260; p. 390.
- Watchcases. Illinois Watch Case Company. No. 124,310; Feb. 4; v. 259; p. 178.
- Water and soft drinks, Table. Clysmyc Spring Co. No. 125,200; Apr. 22; v. 261; p. 795.
- Water and soft drinks, Table. Clysmyc Spring Co. No. 125,406; May 20; v. 262; p. 473.
- Water, Carbonated. Stratford Magnesia Springs Company. No. 124,942; Mar. 25; v. 260; p. 729.
- Water columns and gages. The Lunkenheimer Co. No. 127,080; Oct. 21; v. 267; p. 480.
- Water-heaters and draft-hoods therefor. L. R. Mendel son. No. 127,455; Nov. 11; v. 268; p. 373.
- Water-heaters, furnaces, &c., Gas. Esda Manufacturing Company. No. 127,387; Nov. 11; v. 268; p. 371.
- Water, Mineral. Ed. E. Dismuke. No. 127,599; Nov. 18; v. 268; p. 558.
- Water, Natural medicinal. California Medicinal Springs Co. No. 127,211; Oct. 28; v. 267; p. 643.
- Water, Natural spring. A. A. Busch, Jr. Nos. 127,005-6; Oct. 21; v. 267; pp. 447-8.
- Water, Natural spring table. A. A. Busch, Jr. No. 126,392; Aug. 26; v. 265; p. 627.
- Water purifying and treating materials. The Permutt Company. Nos. 124,141-2; Jan. 14; v. 258; p. 445.
- Water-softener compound. National Compound Company. No. 127,770; Dec. 2; v. 269; p. 187.
- Water-softening compound. Sierra Chemical Company. No. 126,480; Aug. 26; v. 265; p. 630.
- Water-softening compound. Sierra Chemical Company. No. 127,506; Nov. 11; v. 268; v. 375.
- Water, Spring-. Hiram Ricker & Sons. No. 125,093; Apr. 8; v. 261; p. 407.
- Waterproof adhesive cement. Ulmer Leather Company. No. 125,851; June 17; v. 263; p. 479.
- Waterproof and vermin-proof coatings for wrappers of meats, &c. Standard Asphalt & Refining Co. No. 124,893; Mar. 18; v. 260; p. 557.
- Waterproof cement for use on leather, cloth, &c. Van Schaack Bros. (Chemical Works. No. 126,103; July 22; v. 264; p. 700.
- Waterproof cement for use on roofs, gutters, &c. C. R. Galyen. No. 124,529; Feb. 25; v. 259; p. 772.
- Waterproof compound for cloth. Erwa Chemical Manufacturing Company. No. 126,414; Aug. 26; v. 265; p. 628.
- Waterproof compound for leather. Erwa Chemical Manufacturing Company. No. 124,700; Mar. 11; v. 260; p. 386.
- Waterproof cotton fabrics. The Landers Brothers Company. No. 125,064; Apr. 8; v. 261; p. 406.
- Waterproof felt roofing, &c. H. H. Hopkins Company. No. 126,697; Sept. 30; v. 266; p. 735.
- Waterproof powder for building-cement. Kerner-Greenwood & Co. No. 124,252; Jan. 28; v. 258; p. 810.
- Waterproof textile fabrics. Eastern Finishing Works. No. 127,225; Oct. 28; v. 267; p. 643.
- Waterproof textile fabrics. Eastern Finishing Works. No. 127,734; Dec. 2; v. 269; p. 186.
- Waterproofed fabrics. The Cravenette Co., U. S. A. No. 126,403; Aug. 26; v. 265; p. 627.
- Waterproofed fabrics for roofing, flooring, &c. Standard Paint Company. Nos. 126,218-19; July 29; v. 264; p. 862.
- Waterproofing composition for shoe-soles. The Nusole Company. No. 127,465; Nov. 11; v. 268; p. 374.
- Waterproofing preparations. Pearson Products Corporation. No. 126,746; Sept. 30; v. 266; p. 737.
- Waterproofing textiles, Compounds for. Chemical Company. No. 127,815; Dec. 9; v. 269; p. 387.
- Wax and certain named vegetable waxes, Paraffin-. J. C. Francesconi & Company. No. 126,278; Aug. 19; v. 265; p. 452.
- Wax for dental use, Impression-. J. H. Downie. No. 125,208; Apr. 22; v. 261; p. 795.
- Wax, Medicinal. J. Kochanowski. No. 125,705; June 3; v. 263; p. 164.
- Webbing, Narrow. Farnsworth, Hoyt Company. No. 127,389; Nov. 11; v. 268; p. 371.
- Welding-wire, Iron. Central Steel & Wire Company. No. 127,009; Oct. 21; v. 267; p. 478.
- Wells, Bits used in the drilling of. Pelican Well Tool & Supply Co. No. 128,150; Dec. 23; v. 269; p. 699.
- Wheels and cotton buffs, Felt. James H. Rhodes & Company. No. 126,470; Aug. 26; v. 265; p. 630.
- Wheels and parts thereof, Vehicle road-. Wire Wheel Corporation of America. No. 127,207; Oct. 21; v. 267; p. 484.
- Wheels and parts thereof, Vehicle road-. Wire Wheel Corporation of America. No. 127,256; Oct. 28; v. 267; p. 644.
- Wheels, Grinding-. Waltham Grinding Wheel Company. No. 127,160; Oct. 21; v. 267; p. 482.
- Whirligig. S. Hughes. No. 127,953; Dec. 16; v. 269; p. 542.
- Whisky, Alexr. Young Distilling Comp'y. No. 125,264; Apr. 22; v. 261; p. 797.
- Whisky, The Dublin Distillers Co. No. 125,801; June 17; v. 263; p. 477.
- Whisky, Jack Daniel Distilling Company. No. 125,797; June 17; v. 263; p. 477.
- Whisky, G. S. Nicholas & Son. No. 126,326; Aug. 19; v. 265; p. 454.
- Whisky, Scotch. A. K. Bell. No. 125,393; May 20; v. 262; p. 473.
- Whistle-calls. J. Hudson. No. 124,456; Feb. 18; v. 259; p. 571.
- Wind-shields, &c., transparent, Liquid for keeping. Seorite Chemical Co. No. 128,264; Dec. 30; v. 269; p. 882.
- Wines, Ye Olde Cheshire Cheese, Limited. No. 127,560; Nov. 11; v. 268; p. 377.
- Wines, Fermented sweet. Italian Vineyard Company. No. 127,238; Oct. 28; v. 267; p. 644.
- Wines, Sparkling. Garrett and Company. No. 124,530; Feb. 25; v. 259; p. 772.
- Wire and steel, Welding-. Apex Steel Corporation. No. 127,985; Oct. 21; v. 267; p. 477.
- Wire fencing. J. Armstrong. No. 126,631; Sept. 30; v. 266; p. 733.
- Wire fencing, gauze, netting, &c. Barbee Wire & Iron Works. No. 125,390; May 20; v. 262; p. 473.
- Wire, Insulated. Atlantic Insulated Wire & Cable Company. No. 125,016; Apr. 8; v. 261; p. 405.
- Wires and friction-tape, Electric insulated weatherproof. Central Electric Company. No. 125,196; Apr. 22; v. 261; p. 795.
- Wires for testing thread. Standard measuring-. The B. Seaboldt Corporation. No. 127,501; Nov. 11; v. 268; p. 375.
- Wireless plural receptacles, cluster-bodies, &c. Benjamin Electric Manufacturing Company. No. 125,962; July 22; v. 264; p. 695.

- Wood and stone working machinery. Lane Manufacturing Company. No. 127,571; Nov. 11; v. 268; p. 377.
- Wood, Encrysted. R. A. Marr. No. 126,038; July 22; v. 264; p. 697.
- Wood, Kindling and fire. Baker Box Co. No. 124,500; Feb. 25; v. 259; p. 771.
- Wood made of ply material, Sheets of. Venesta Limited. No. 128,194; Dec. 23; v. 269; p. 700.
- Wood-polish. B. Roy. No. 127,126; Oct. 21; v. 267; p. 481.
- Wool and wool and cotton piece goods. T. C. Cullen. No. 124,959; Apr. 1; v. 261; p. 197.
- Wool, hair, cotton, silk, &c., piece goods. Tanenhaus and Olian. No. 124,601; Feb. 25; v. 259; p. 774.
- Wool piece goods. Haas Brothers. No. 127,947; Dec. 16; v. 269; p. 542.
- Wool, Zephyr-finish Germantown. Isaac D. Allen Company. No. 124,069; Jan. 14; v. 258; p. 443.
- Woolen and wool and cotton piece goods. Milbrook Woolen Mills. No. 128,134; Dec. 23; v. 269; p. 699.
- Woolen, cotton, &c., piece goods. S. Pearsall. No. 124,988; Apr. 1; v. 261; p. 198.
- Woolen fabric. Holden-Leonard Company. No. 127,951; Dec. 16; v. 269; p. 542.
- Woolen piece goods. Atlantic Mills. Nos. 128,130-1; Dec. 23; v. 269; p. 699.
- Woolen piece goods. Forstmann & Huffmann Co. No. 126,158; July 29; v. 264; p. 860.
- Woolen piece goods. Forstmann & Huffmann Co. No. 126,848; Oct. 7; v. 267; p. 178.
- Woolen piece goods. Forstmann & Huffmann Co. Nos. 127,934-40; Dec. 16; v. 269; p. 542.
- Woolen piece goods. Forstmann & Huffmann Co. No. 128,064; Dec. 23; v. 269; p. 697.
- Woolen piece goods. Holden-Leonard Company. Nos. 126,014-16; July 22; v. 264; p. 697.
- Woolen piece goods. Holden-Leonard Company. No. 127,952; Dec. 16; v. 269; p. 542.
- Woolen piece goods. J. Ross. No. 126,071; July 22; v. 264; p. 699.
- Woolen piece goods. E. P. Stahel & Co. No. 127,991; Dec. 16; v. 269; p. 543.
- Woolen piece goods. Strong, Hewat & Co. No. 124,595; Feb. 25; v. 259; p. 774.
- Worm-salts for live stock and poultry. C. E. Ensley. No. 127,385; Nov. 11; v. 268; p. 371.
- Woven and knitted underwear and socks. Cooper Underwear Company. No. 28,037; Dec. 23; v. 269; p. 696.
- Woven-fabric union-suits. Regatta Manufacturing Co. No. 124,582; Feb. 25; v. 259; p. 773.
- Woven or knitted textile fabric of silk, cotton, &c. Royal Embroidery Works, Naday & Fleischer. No. 124,882; Mar. 18; v. 260; p. 557.
- Wringers. Simmons Hardware Company. Nos. 126,964-5; Oct. 14; v. 267; p. 336.
- X-ray tubes. Wappler Electric Co. No. 125,688; June 3; v. 263; p. 163.
- Yarn, machine-twist, &c., Spun silk. Cheney Brothers. Nos. 125,616-17; June 3; v. 263; p. 161.
- Yarn, Silk knitting. Monroe Silk Mills. No. 124,128; Jan. 14; v. 258; p. 445.
- Yarn, Worsted and woolen. James Lees and Sons Company. No. 124,390; Feb. 11; v. 259; p. 380.
- Yarns. Bernhard Ulmann Co. No. 124,268; Jan. 28; v. 258; p. 810.
- Yarns, Marlboro Cotton Mills. No. 127,442; Nov. 11; v. 268; p. 373.
- Yarns and thread spun from jute. C. C. Davis. No. 125,416; May 20; v. 262; p. 474.
- Yarns, Cotton. The Cardinal Mills. No. 124,672; Mar. 11; v. 260; p. 385.
- Yarns, Cotton. Dollfus-Mieg & Cie., Societe Anonyme. Nos. 128,046-7; Dec. 23; v. 269; p. 696.
- Yarns, Knitting. W. J. Weihermayer. No. 128,199; Dec. 23; v. 269; p. 701.
- Yarns, Silk. Crane Bros. No. 124,685; Mar. 11; v. 260; p. 386.
- Yarns, Worsted. J. L. Schwyer. No. 127,130; Oct. 21; v. 267; p. 481.
- Yeast. F. L. Haley. No. 125,435; May 20; v. 262; p. 474.
- Yeasts. M. Getz & Co. No. 124,094; Jan. 14; v. 258; p. 443.
- Zinc oxids. American Zinc, Lead & Smelting Co. Nos. 126,627-30; Sept. 30; v. 266; p. 733.
- Zinc oxids for use as paint pigments. American Zinc, Lead & Smelting Co. Nos. 126,820-1; Oct. 7; v. 267; p. 177.

## ALPHABETICAL LIST OF LABELS.

- "A No. 1 Antiseptic Cutting Compound." (For Chemical Compounds Prepared for Cooling Metal-Cutting Tools.) Standard Chemical Co. No. 21,218; Apr. 15; v. 261; p. 628.
- "A Pippin of a Drink." (For Pure Apple-Juice.) Virginia Fruit Juice Company, Inc. No. 21,347; July 1; v. 246; p. 155.
- "A Pure Soft Beverage." (For a Non-Intoxicating Beverage.) S. Liebmans's Sons, Inc. No. 21,249; May 20; v. 262; p. 479.
- "Absorbine, Jr. The Antiseptic Liniment." (For Absorbine, Jr. Liniment.) W. F. Young, Inc. No. 21,277; May 20; v. 262; p. 479.
- "Absorol Ointment." (For Ointment.) A. J. Lasersohn. No. 21,599; Dec. 30; v. 269; p. 883.
- "Aero Crepe Toilet Paper." (For Toilet-Paper.) C. L. Huff. No. 21,530; Oct. 14; v. 267; p. 339.
- "All-(Efanem)-Wool." (For Sponges for Automobile-Washing.) Freirich & Mansell. No. 21,212; Apr. 15; v. 261; p. 628.
- "American Equipment Pants Co. Unbreakable Seams. 'A New Pair if this one Fails.'" (For Men's Trousers.) American Equipment Pants Company, Inc. No. 21,158; Feb. 25; v. 259; p. 776.
- "American-Vermont Sea Green Roofing Slate." (For Samples of Slate.) American Sea Green Slate Co. No. 21,144; Feb. 11; v. 259; p. 382.
- "Anaheim Gloriana." (For Extra Fancy Valencias.) Anaheim Orange & Lemon Association. No. 21,378; Aug. 5; v. 265; p. 143.
- "Anti-Py-O." (For Dental Cream.) The Antidolor Manufacturing Co. No. 21,588; Dec. 30; v. 269; p. 883.
- "Areal Hair Remover." (For Hair-Remover.) A. W. Earley. No. 21,557; Oct. 21; v. 267; p. 485.
- "Arlington." (For Canned Tomatoes.) Arlington Cannery. No. 21,383; Aug. 5; v. 265; p. 143.
- "Assorted Chocolates." (For Candy.) Milwaukee Paper Box Company. No. 21,195; Apr. 8; v. 261; p. 409.
- "Auerbach Finest Lemon Drops." (For Candy.) D. Auerbach & Sons. No. 21,292; July 1; v. 264; p. 154.
- "Baby Bunting's Castile Soap." (For Castile Soap.) The Carlton Co. No. 21,237; May 20; v. 262; p. 479.
- "Baby's Delight Bath Robes." (For Bath-Robes.) A. Schlusberg. No. 21,587; Dec. 9; v. 269; p. 391.
- "Baker's Coconut." (For Package-Cocoanut.) The Franklin Baker Company. No. 21,245; May 20; v. 262; p. 479.
- "Baker's Foot Ease." (For Foot-Powder.) J. H. Baker. No. 21,293; July 1; v. 264; p. 154.
- "Bankers' Indelible Ink, Superior Safety Ink." (For Powdered Ink.) B. Kellogg. No. 21,163; Feb. 25; v. 259; p. 776.
- "Bar of Bars." (For Chocolate Candy.) The Nut House Incorporated. No. 21,197; Apr. 8; v. 261; p. 409.
- "Barbour Grooved Endless Weltling." (For Weltling.) Brockton Rand Company. No. 21,300; July 1; v. 264; p. 154.
- "Baume Analgesique Bengue." (For a Medicinal Preparation.) T. Seltzer. No. 21,133; Feb. 4; v. 259; p. 181.
- "Beach & Motor Hair Net." (For Hair-Nets.) A. A. West. No. 21,139; Feb. 4; v. 259; p. 181.
- "Beach's 'All Leather' Pocket-Books, 'Best for Your Money.'" (For Pocket-Books.) The Beach Leather Company. No. 21,236; May 20; v. 262; p. 479.
- "Bear Cat." (For Canned Tomatoes.) Sunset Canneries. No. 21,569; Oct. 21; v. 267; p. 485.
- "Bell's Extract of Spices." (For Extract of Spices.) C. A. Bell. No. 21,296; July 1; v. 264; p. 154.
- "Bell's Lung Balsam." (For Lung-Balsam.) C. A. Bell. No. 21,297; July 1; v. 264; p. 154.
- "Bell's Sarsaparilla." (For Sarsaparilla.) C. A. Bell. No. 21,295; July 1; v. 264; p. 154.
- "Belmont Package." (For Candy.) Milwaukee Paper Box Company. No. 21,196; Apr. 8; v. 261; p. 409.
- "Bencoe Brand Sweetened Condensed Milk." (For Canned Condensed Milk.) Bencoe Exporting & Importing Co., Inc. No. 21,209; Apr. 15; v. 261; p. 628.
- "Beriaults Hair Bitters." (For a Hair-Tonic.) J. B. Beriault. No. 21,518; Oct. 14; v. 267; p. 339.
- "Best Everyway Milk." (For Condensed Milk.) Well Color and Chemical Company & Well and Company. No. 21,349; July 1; v. 264; p. 155.
- "Betson's Pioneer Hi-Heat Cement For Laying Up High Grade Fire Brick." (For Betson's No. 3 Hi-Heat Cement.) Benson Plastic Fire Brick Co. No. 21,116; Feb. 4; v. 259; p. 181.
- "Betsy Ross Candies." (For Candy.) Betsy Ross Candy Shops. No. 21,298; July 1; v. 264; p. 154.
- "Big Bite Chocolate." (For Chocolate Candy.) Curtiss Candy Co. No. 21,231; May 13; v. 262; p. 311.
- "Big Boston." (For Lettuce Seed.) Alfred J. Brown Seed Co. No. 21,490; Sept. 30; v. 266; p. 740.
- "Big Chief Pop Corn." (For Popcorn.) American Pop Corn Company. No. 21,223; Apr. 22; v. 261; p. 798.
- "Bitrose Milkees." (For Candy.) Bitrose Company. No. 21,117; Feb. 4; v. 259; p. 181.
- "Bitter Sweets." (For Candy.) Milwaukee Paper Box Company. No. 21,606; Dec. 30; v. 269; p. 883.



## Alphabetical list of labels—Continued.

- "Blabon Art Linoleums." (For Linoleums.) The George W. Blabon Company. No. 21,114; Feb. 4; v. 259; p. 181.
- "Blabon Art Linoleums." (For Linoleums.) The George W. Blabon Company. No. 21,418; Aug. 5; v. 265; p. 144.
- "Black Seeded Simpson." (For Lettuce-Seed.) Alfred J. Brown Seed Co. No. 21,488; Sept. 30; v. 266; p. 740.
- "Bloom of Youth." (For a Facial Liquid Rouge.) M. Lucarbone. No. 21,436; Aug. 12; v. 265; p. 303.
- "Blue Goose." (For Oranges.) T. H. Peppers. No. 21,568; Oct. 21; v. 267; p. 485.
- "Blue Label Penick & Ford's Brer Rabbit Brand." (For Ford, Ltd. No. 21,258; May 20; v. 262; p. 479.
- "Blue Ribbon." (For Malt Extract.) Decatur Brewing Co. No. 21,520; Oct. 14; v. 267; p. 339.
- "Bluebird Brand." (For Fresh Grapes.) Anglo-Californian Vinyards Ltd. No. 21,111; Feb. 4; v. 259; p. 181.
- "Boedeker's Superior Grape-Win." (For a Beverage.) Pure Country-Made Ribbon-Cane Syrup.) Penick & Boedeker & Co. No. 21,392; Aug. 5; v. 265; p. 143.
- "Bonded." (For Canned Apricots.) Harbor City Canning Co. No. 21,595; Dec. 30; v. 269; p. 883.
- "Bone Dry Brand." (For Weatherproof Clothing.) J. M. Pickerrill. No. 21,337; July 1; v. 264; p. 155.
- "Bone Dry Gen-U-Wine (Genuine)." (For a Soft Drink.) S. R. Cook. No. 21,278; May 27; v. 262; p. 644.
- "Borecole." (For Kale-Seed.) Alfred J. Brown Seed Co. No. 21,492; Sept. 30; v. 266; p. 740.
- "Brazil Nuts In Cream." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,457; Aug. 12; v. 265; p. 303.
- "Bread Wrapper." (For Bread.) E. Frisch. No. 21,246; May 20; v. 262; p. 479.
- "Bromo-Aspirin." (For Laxative Tablets.) L. H. Pockman. No. 21,549; Oct. 14; v. 267; p. 339.
- "Bronchitine." (For a Medical Compound—Namely, Bronchitine.) V. L. Blahnik and Sons. No. 21,389; Aug. 5; v. 265; p. 143.
- "Broncho The Drink With a Kick." (For a Non-Alcoholic Beverage.) Empire Bottling Works. No. 21,357; July 8; v. 264; p. 351.
- "Brunswick Chocolates." (For Chocolates.) General Candy Co. No. 21,417; Aug. 5; v. 265; p. 144.
- "Buck-O." (For a Non-Intoxicating Cereal Beverage.) Lion Brewing Company. No. 21,321; July 1; v. 264; p. 155.
- "Burbank." (For Canned Tomatoes.) Hinckley-Beach Canning Co. No. 21,099; Jan. 28; v. 258; p. 812.
- "Burpee's Stringless." (For Bean-Seed.) Alfred J. Brown Seed Co. No. 21,494; Sept. 30; v. 266; p. 740.
- "Butter-Aids." (For Cartons for Hard Candy.) E. J. Brach & Sons. No. 21,147; Feb. 11; v. 259; p. 382.
- "Butter Creams." (For Candy.) Milwaukee Paper Box Company. No. 21,191; Apr. 8; v. 261; p. 409.
- "C. W. Brand." (For Gunpowder Tea.) The Widlar Co. No. 21,554; Oct. 14; v. 267; p. 339.
- "C. W. Brand." (For Salad-Dressing.) The Widlar Co. No. 21,555; Oct. 14; v. 267; p. 339.
- "Cactus Brand Cantaloupes." (For Cantaloupes.) Crutchfield & Woolfolk. No. 21,304; July 1; v. 264; p. 154.
- "Café-Nola (Brulo)." (For a Spicy Drink.) The Hotel Grunewald Co. Ltd. No. 21,597; Dec. 30; v. 269; p. 883.
- "California Roseleaf Preserves." (For Rose-Leaf Preserves.) C. Oberlander. No. 21,546; Oct. 14; v. 267; p. 339.
- "California Tip-Top Washing Powder." (For Washing-Powder.) The California Washing Powder Co., Inc. No. 21,556; Oct. 21; v. 267; p. 485.
- "Carolene." (For a Compound of Refined Nut-Oils and Evaporated Skimmed Milk.) T. L. Carroll. No. 21,353; July 8; v. 264; p. 351.
- "Candy Headquarters." (For Candy.) D. Auerbach & Sons. No. 21,113; Feb. 4; v. 259; p. 181.
- "Caravel Company, Inc." (For Chemicals and Dyestuffs.) Caravel Company, Inc. No. 21,174; Mar. 18; v. 260; p. 559.
- "Cecho Slovak Family Soap." (For Soap.) Fitzpatrick Bros. No. 21,183; Apr. 8; v. 261; p. 409.
- "Cereal Malt Syrup." (For a Cereal Malt Syrup.) Cereal Products Refining Company. No. 21,590; Dec. 30; v. 269; p. 883.
- "Champion." (For a Hair-Tonic.) Wm. H. Dechant. No. 21,308; July 1; v. 264; p. 154.
- "Charles The Fifth." (For Cigars.) Charles The Fifth Cigar Co. No. 21,591; Dec. 30; v. 269; p. 883.
- "Chateau." (For Soft Drinks.) Chateau Bottling Co. No. 21,301; July 1; v. 264; p. 154.
- "Cherry Almond." (For Cherry Almond Flavor.) S. Werner. No. 21,177; Mar. 18; v. 260; p. 559.
- "Cherry Pepsin Syrup." (For Beverage Purposes.) J. A. Bokel. No. 21,505; Oct. 7; v. 267; p. 181.
- "China Rose Winter." (For Radish-Seed.) Alfred J. Brown Seed Co. No. 21,498; Sept. 30; v. 266; p. 740.
- "Chocolat Supérieur." (For Chocolate.) Pennsylvania Chocolate Company. No. 21,335; July 1; v. 264; p. 155.
- "Chocolate Covered Cherries." (For Cherries.) Milwaukee Paper Box Company. No. 21,537; Oct. 14; v. 267; p. 339.
- "Chocolate Fruit." (For Chocolate Candy.) Curtiss Candy Co. No. 21,225; May 13; v. 262; p. 311.
- "Chocolate Supreme." (For Candy.) Milwaukee Paper Box Company. No. 21,193; Apr. 8; v. 261; p. 409.
- "City of Roma." (For Cigars.) A. Pucciani. No. 21,130; Feb. 4; v. 259; p. 181.
- "Coat of Arms Brand." (For Canned Salmon.) Northwestern Fisheries Co. No. 21,253; May 20; v. 262; p. 479.
- "Cold Seal." (For a Non-Intoxicating Beverage.) The Ohio Beverage Company. No. 21,256; May 20; v. 262; p. 479.
- "Colonial Chocolates." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,458; Aug. 12; v. 265; p. 303.
- "Comet." (For Canned Sardines.) F. E. Booth Co. No. 21,299; July 1; v. 264; p. 154.
- "Cordova." (For Canned Sardines.) Neptune Sea Food Co. No. 21,581; Nov. 4; v. 268; p. 189.
- "Cough Drop Life Savers, The Candy Mint With The Hole, a Dainty Confection." (For Medicinal Candies.) Mint Products Company, Inc. No. 21,327; July 1; v. 264; p. 155.
- "Crema Vegetal." (For Shaving-Cream.) E. W. Burke. No. 21,584; Dec. 9; v. 269; p. 391.
- "Crex-O-Meal." (For Wall-Paper.) Becker, Smith & Page, Inc. No. 21,115; Feb. 4; v. 259; p. 181.
- "Curtiss Peanut Bar." (For Peanut Candy.) Curtiss Candy Co. No. 21,233; May 13; v. 262; p. 311.
- "Dairymen's League." (For Packages or Containers Containing Sweetened Condensed Milk.) Little Falls Dairy Co. Inc. No. 21,511; Oct. 7; v. 267; p. 181.
- "De Croes Hair Stimulant and Dandruff Remedy." (For a Hair-Tonic.) C. E. and B. M. De Croes. No. 21,307; July 1; v. 264; p. 154.
- "De Luxe Shaving Lather." (For Shaving-Lather.) F. Uhry. No. 21,137; Feb. 4; v. 259; p. 181.
- "De Luxe." (For Oleomargarin.) Edson Brothers. No. 21,415; Aug. 5; v. 265; p. 144.
- "De Preven." (For Medicinal Preparation for Treatment of Malaria.) J. de Jesús. No. 21,186; Apr. 8; v. 261; p. 409.
- "Dead Shot Non-Poisonous Insecticide." (For a Powder for Killing and Destroying All Kinds of Insects.) Dead Shot Chemical Company. No. 21,411; Aug. 5; v. 265; p. 143.
- "Dead-Shot Non-Poisonous Insecticide." (For Insect-Powder.) Dead-Shot Chemical Company. No. 21,574; Nov. 4; v. 268; p. 189.
- "Dead Shot Rat Killer." (For a Powder for Killing and Destroying Rats.) Dead Shot Chemical Company. No. 21,412; Aug. 5; v. 265; p. 144.
- "Delicia." (For Oranges.) Anaheim Orange & Lemon Association. No. 21,379; Aug. 5; v. 265; p. 143.
- "Delicia, The Name Tells." (For Corned Beef.) Baker Packing Company. No. 21,386; Aug. 5; v. 265; p. 143.
- "Delico." (For Fruit-Juices.) Twin City Extract Company. No. 21,515; Oct. 7; v. 267; p. 181.
- "Dexter's Mother's Bread." (For Bread.) E. A. Dexter. No. 21,413; Aug. 5; v. 265; p. 144.
- "Dexter's Mother's Bread." (For Bread.) E. A. Dexter. No. 21,592; Dec. 30; v. 269; p. 883.
- "Distinction Spring Fastener." (For Spring-Fasteners.) The P. M. Frankel Company. No. 21,121; Feb. 4; v. 259; p. 181.
- "Don Julian." (For Cigars.) Gradias-Annis & Co., Inc. No. 21,423; Aug. 5; v. 265; p. 144.
- "Doriana." (For Cigars.) H. Mills. No. 21,324; July 1; v. 264; p. 155.
- "Double Distilled Bay Rum." (For Bay-Rum.) I. Patewons v. No. 21,104; Jan. 28; v. 258; p. 812.
- "Down Where The Sene Shoe Sign Shines." (For Shoes.) Sene Shoe Company. No. 21,134; Feb. 4; v. 259; p. 181.
- "Dr. Cannard's Futrelle Foot Lotion." (For a Foot-Lotion.) B. Cannard. No. 21,352; July 8; v. 264; p. 351.
- "Dr. Swett's Original Root Beer—Delicious, Wholesome—Refreshing—Satisfying." (For Root-Beer.) The Dr. Swett Root Beer Company. No. 21,135; Feb. 4; v. 259; p. 181.
- "Drum Brand." (For Coffee.) W. A. Stewart. No. 21,172; Mar. 11; v. 260; p. 391.
- "Due Frati." (For Domestic Macaroni.) C. Maspero. No. 21,171; Mar. 11; v. 260; p. 391.
- "Duro-lac." (For a Polishing and Cleaning Compound for Automobiles, Furniture, and All Varnished or Enameled Surfaces Requiring a High Polish.) F. B. Webster. No. 21,484; Aug. 12; v. 265; p. 304.
- "Eagle." (For Gasoline.) Hammer & Co. No. 21,427; Aug. 5; v. 265; p. 144.
- "Eagle." (For Kerosene.) Hammer & Co. No. 21,428; Aug. 5; v. 265; p. 144.
- "Eagle." (For Olive-Oil.) Hammer & Co. No. 21,429; Aug. 5; v. 265; p. 144.

- "Eagle." (For Salad-Oil.) Hammer & Co. No. 21,430; Aug. 5; v. 265; p. 144.
- "Eagle." (For Lubricating-Oil.) Hammer & Co. No. 21,558; Oct. 21; v. 267; p. 485.
- "Eagle." (For Supreme-Quality Hops.) Hammer & Co. No. 21,559; Oct. 21; v. 267; p. 485.
- "Eagle and Crescent." (For Brooms and Mops.) Crescent Broom Company, Inc. No. 21,239; May 20; v. 262; p. 479.
- "Early Jersey Wakefield." (For Cabbage-Seed.) Alfred J. Brown Seed Co. No. 21,489; Sept. 30; v. 266; p. 740.
- "Easton's Mayonnaise." (For Mayonnaise.) G. J. Easton. No. 121,182; Apr. 8; v. 261; p. 409.
- "Economy." (For a Detergent Washing Compound.) Fitzpatrick Bros. No. 21,243; May 20; v. 262; p. 479.
- "Eczemox." (For a Treatment for all Diseases of the Skin and Scalp.) Narton Remedy Corporation. No. 21,142; Feb. 4; v. 259; p. 181.
- "Egg Cream." (For Egg Substitute.) The Food Products Co. No. 21,310; July 1; v. 264; p. 154.
- "84." (For Cigars and Tobacco.) Hudson County Tobacco Co. No. 21,434; Aug. 12; v. 265; p. 303.
- "Electrox." (For a Silver-Cleaning Preparation.) C. H. Fernald. No. 21,120; Feb. 4; v. 259; p. 181.
- "Epicure." (For Valencia Oranges.) Santiago Orange Growers Ass'n. No. 21,476; Aug. 12; v. 265; p. 304.
- "Etter's Goutte Remedy." (For Goutte Remedy.) C. E. Etter. No. 21,241; May 20; v. 262; p. 479.
- "Everite Brand." (For Valencia Oranges.) Santiago Orange Growers Association. No. 21,475; Aug. 12; v. 265; p. 304.
- "Export Crepe Toilet Paper." (For Toilet-Paper.) C. L. Huff. No. 21,528; Oct. 14; v. 267; p. 339.
- "Extra Chocolates." (For Candy.) Milwaukee Paper Box Company. No. 21,192; Apr. 8; v. 261; p. 409.
- "Extra Choice California Peaches Heavy Syrup." (For Peaches.) Alfred Putnam & Company. No. 21,375; Aug. 5; v. 265; p. 143.
- "Eye Brand." (For Nut Chocolate Kisses.) Eye Brand Confectionery, Inc. No. 21,593; Dec. 30; v. 269; p. 883.
- "Fairie Dream." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,453; Aug. 12; v. 265; p. 303.
- "Falk American Potato Flour." (For Potato-Flour.) Falk Company. No. 21,506; Oct. 7; v. 267; p. 181.
- "Famous Red Arrow No. 32." (For Cigars.) Chas. Leutz & Co. No. 21,600; Dec. 30; v. 269; p. 833.
- "Fashionable, Royal Worcester Corsets, Graceful." (For Corsets.) Royal Worcester Corset Co. No. 21,341; July 1; v. 264; p. 155.
- "Favorita." (For Oranges.) Anaheim Orange & Lemon Association. No. 21,380; Aug. 5; v. 265; p. 143.
- "Fernwood." (For Writing-Tablets.) Kalamazoo Stationery Co. No. 21,162; Feb. 25; v. 259; p. 776.
- "Fifth Avenue Motor Net." (For Human-Hair Nets.) N. Seligman Merchandise Co., Inc. No. 21,545; Oct. 14; v. 267; p. 339.
- "Finery Fasteners." (For Snap-Fasteners.) Federal Snap Fastener Corporation. No. 21,148; Feb. 11; v. 259; p. 382.
- "Florida Mellow Fruit Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,399; Aug. 5; v. 265; p. 143.
- "Florida Peppermint Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,407; Aug. 5; v. 265; p. 143.
- "Florida Spearmint Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,400; Aug. 5; v. 265; p. 143.
- "Fluno Prophylactics 'Prevention Better Than Cure.'" (For a Prophylactic.) L. M. Gress. No. 21,525; Oct. 14; v. 267; p. 339.
- "Flyweight." (For Dress-Shields.) Star Merchandise Co. No. 21,514; Oct. 7; v. 267; p. 181.
- "Ford Overcoat." (For Men's Overcoats.) M. Golland. No. 21,425; Aug. 5; v. 265; p. 144.
- "Fort McHenry." (For Canned Vegetables and Canned Fruits.) W. S. Assau Canning Co. No. 21,112; Feb. 4; v. 259; p. 181.
- "Franklin Fashions." (For Men's and Boys' Outer Garments.) Franklin Clothing Mfg Co. No. 21,184; Apr. 8; v. 261; p. 409.
- "Franklin's Original—Snow Flake, 'The Mystic Washing Tablet.'" (For "The Mystic Washing Tablet.") Franklin Products Company. No. 21,175; Mar. 18; v. 260; p. 559.
- "Fruit-Aids." (For Cartons for Hard Candy.) E. J. Brach & Sons. No. 21,145; Feb. 11; v. 259; p. 382.
- "G. Washington's Milkcoffee." (For a Combination of Coffee, Milk, and Sugar.) G. Washington Coffee Refining Co. No. 21,167; Feb. 25; v. 259; p. 776.
- "Gale Cleanser." (For a Cleanser.) Gale-Evans Company, Inc. No. 21,575; Nov. 4; v. 268; p. 189.
- "Game of College Boat Race." (For a Game.) McLoughlin Bros. Inc. No. 21,604; Dec. 30; v. 269; p. 883.
- "Garden Gate." (For Toilet Water.) Wildroot Chemical Company. No. 21,276; May 20; v. 262; p. 479.
- "Garvey's Celebrated 'Hot Stuff' Brand." (For Red-Pepper Sauce.) The J. J. Garvey Co. No. 21,160; Feb. 25; v. 259; p. 776.
- "Gen Co Brand." (For Crushed Fruits—Namely, Raspberry.) General Fruit & Syrup Co. No. 21,424; Aug. 5; v. 265; p. 144.
- "Germosol." (For Antiseptic Germicide and Deodorant.) M. Reimann. No. 21,260; May 20; v. 262; p. 479.
- "Gets It." (For Chewing-Gum.) D. Millhauser. No. 21,535; Oct. 14; v. 267; p. 339.
- "Giant Pascal." (For Celery-Seed.) Alfred J. Brown Seed Co. No. 21,495; Sept. 30; v. 266; p. 740.
- "Glen Rosa Brand." (For Orange Marmalade.) North Ontario Packing Co. No. 21,334; July 1; v. 264; p. 155.
- "Gold Beam." (For Canned Tomatoes.) Moneta Canning Company. No. 21,360; July 8; v. 264; p. 351.
- "Gold Medal." (For Boots and Shoes.) Dorothy Dodd Shoe Company. No. 21,356; July 8; v. 264; p. 351.
- "Gold Metal Panama Soap." (For Soap.) A. F. Baker. No. 21,589; Dec. 30; v. 269; p. 883.
- "Golden Krust, the Loaf de Luxe." (For Bread.) W. E. Schweigart. No. 21,615; Dec. 30; v. 269; p. 883.
- "Golden Self Blanching." (For Celery-Seed.) Alfred J. Brown Seed Co. No. 21,500; Sept. 30; v. 266; p. 740.
- "Golden State." (For Appleade.) Milwaukee Brewery of San Francisco. No. 21,578; Nov. 4; v. 268; p. 189.
- "Golden State." (For Coffee-Beer.) Milwaukee Brewery of San Francisco. No. 21,579; Nov. 4; v. 268; p. 189.
- "Goosoline." (For a Medicinal Preparation.) A. W. Engle. No. 21,594; Dec. 30; v. 269; p. 883.
- "Grivas Special Sauce." (For Sauce.) J. B. Grivas. No. 21,422; Aug. 5; v. 265; p. 144.
- "Gu'n-teed." (For Bread.) Pioneer Paper Company. No. 21,471; Aug. 12; v. 265; p. 303.
- "Guernsey Brand Oleomargarine." (For Oleomargarine.) Narragansett Dairy Co. Ltd. No. 21,331; July 1; v. 264; p. 155.
- "Guess." (For a Soft Drink.) Guess Company. No. 21,314; July 1; v. 264; p. 154.
- "Hair-Zo." (For Hair-Tonic.) W. H. Kelly. No. 21,440; Aug. 12; v. 265; p. 303.
- "Happy Thought." (For Pure Blended Coffee.) Alex Sheppard & Sons, Inc. No. 21,202; Apr. 8; v. 261; p. 409.
- "Hard Center Chocolates." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,454; Aug. 12; v. 265; p. 303.
- "Harmony Snap Fastener Dispers Dressing Discords." (For Snap-Fasteners.) Federal Snap Fastener Corporation. No. 21,242; May 20; v. 262; p. 479.
- "Harvard Bronchial Syrup." (For Bronchial Syrup.) C. A. Bell. No. 21,294; July 1; v. 264; p. 154.
- "Hedges Fancy Blend Coffee." (For Coffee.) Hedges-Buck Company. No. 21,432; Aug. 12; v. 265; p. 303.
- "Hickok's Chocolate Brittle." (For Chocolate Brittle.) The C. F. Hickok Co. No. 21,125; Feb. 4; v. 259; p. 181.
- "Hickok's Chocolate Brittle Chips." (For Chocolate Brittle Chips.) The C. F. Hickok Co. No. 21,124; Feb. 4; v. 259; p. 181.
- "Hold-Tight." (For Hair-Wavers.) A. Klar. No. 21,441; Aug. 12; v. 265; p. 303.
- "Holly." (For Raisins.) C. G. Bonner. No. 21,351; July 8; v. 264; p. 351.
- "Home Base Ball Game." (For a Game.) McLoughlin Bros., Inc. No. 21,605; Dec. 30; v. 269; p. 883.
- "Honey Comb Chip." (For Honey-Comb Chip Candy.) Curtiss Candy Co. No. 21,227; May 13; v. 262; p. 311.
- "Hovden Brand." (For Canned California Sardines.) K. Hovden Co. No. 21,101; Jan. 28; v. 258; p. 312.
- "Hoye's Liberty Tea and Sugar Tablet." (For "Mate" Tea and Sugar Tablets.) S. M. Hoye. No. 21,213; Apr. 15; v. 261; p. 628.
- "Improved Long Orange." (For Carrot-Seed.) Alfred J. Brown Seed Co. No. 21,496; Sept. 30; v. 266; p. 740.
- "Indian River Fruits, Nevins Merritt's Island Brand." (For Fruits.) T. F. Nevins. No. 21,333; July 1; v. 264; p. 155.
- "Indian Sage O Hair Grower." (For Indian Sage O Hair-Grower.) Madam M. L. Griffin. No. 21,248; May 20; v. 262; p. 479.
- "International Brand." (For Macaroni.) Buckley Macaroni Company, Inc. No. 21,393; Aug. 5; v. 265; p. 143.
- "Iron City Beverage." (For Non-Intoxicating Beverages.) Pittsburgh Brewing Company. No. 21,155; Feb. 11; v. 259; p. 382.
- "Iroquois Indian Head." (For Non-Intoxicating Beverage.) Iroquois Brewing Company. No. 21,185; Apr. 8; v. 261; p. 409.
- "Iroquois Indian Head." (For a Non-Intoxicating Beverage.) Indian Head Products Corporation. No. 21,437; Aug. 12; v. 265; p. 303.
- "Iroquois Indian Head." (For Non-Intoxicating Beverage.) Iroquois Beverage Co. No. 21,438; Aug. 12; v. 265; p. 303.



## Alphabetical list of labels—Continued.

- "It Wears and Wears." (For Hosiery.) Kachel-Lenhardt Company. No. 21,316; July 1; v. 264; p. 154.
- "Its Quality." (For Bread.) P. J. Stern. No. 21,344; July 1; v. 264; p. 155.
- "J. N. C." (For Twine.) J. N. Clay. No. 21,118; Feb. 4; v. 259; p. 181.
- "Jack-O-Lantern." (For Chocolate Fruit Slice Candy.) Curtiss Candy Co. No. 21,228; May 13; v. 262; p. 311.
- "Jack Patch." (For Rubber Repair Outfits or Kits.) Jack Patch Mfg. Co. No. 21,153; Feb. 11; v. 259; p. 382.
- "Jack Sprat Brand." (For Coffee.) Western Grocer Company. No. 21,207; Apr. 8; v. 261; p. 409.
- "Jack Sprat Brand." (For Canned Corn.) Western Grocer Company. No. 21,208; Apr. 8; v. 261; p. 409.
- "Jannetta." (For Hair-Nets.) M. Herzog. No. 21,152; Feb. 11; v. 259; p. 382.
- "Jelly Drops." (For Candies.) Voegelé & Dinning Co., Inc. No. 21,553; Oct. 14; v. 267; p. 339.
- "Johns-Manville Akousto-Lite Fabric Coating." (For Fabric Coating.) H. W. Johns-Manville Company. No. 21,577; Nov. 4; v. 268; p. 189.
- "Jolly Jacks Peanut Bar." (For Chocolate Candy.) Curtiss Candy Co. No. 21,234; May 13; v. 262; p. 311.
- "Jolly Time Pop Corn." (For Popcorn.) American Pop Corn Company. No. 21,222; Apr. 22; v. 261; p. 798.
- "Joseph Major." (For a Preparation for Spanish Influenza, La Grippe, Lungs, and Blood.) J. Major. No. 21,452; Aug. 12; v. 265; p. 303.
- "Juicy Fruit." (For Non-Alcoholic Beverages.) The Bee Bee Confection Co. No. 21,387; Aug. 5; v. 265; p. 143.
- "Kandy Kake." (For Candy.) Curtiss Candy Co. No. 21,226; May 13; v. 262; p. 311.
- "Kant-Rust Spring Lubricant." (For Lubricants.) Cee & Vee Products Co. No. 21,396; Aug. 5; v. 265; p. 143.
- "Ke-O-Ka Nerve and Blood Remedy." (For a Nerve and Blood Remedy.) E. M. Leach. No. 21,451; Aug. 12; v. 265; p. 303.
- "Kenilworth." (For Canned Sardines.) Steel Packing Co. No. 21,480; Aug. 12; v. 265; p. 304.
- "Kentucky Fruit-Frappe Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,406; Aug. 5; v. 265; p. 143.
- "Kentucky Peppermint Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,404; Aug. 5; v. 265; p. 143.
- "Kentucky Spearmint Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,405; Aug. 5; v. 265; p. 143.
- "Kentucky Wonder." (For Bean-Seed.) Alfred J. Brown Seed Co. No. 21,493; Sept. 30; v. 266; p. 740.
- "Kolb's Scotch Loaf." (For Bread.) G. O. Kolb. No. 21,442; Aug. 12; v. 265; p. 303.
- "Koolmotor." (For Lubricating-Oil.) The Lubric Oil Company. No. 21,446; Aug. 12; v. 265; p. 303.
- "Koop's Lightning." (For Hair-Renewer.) F. Koop. No. 21,318; July 1; v. 264; p. 154.
- "Kozine Hair Tonic." (For a Hair-Tonic Preparation.) Rieder & Freudenberger. No. 21,365; July 8; v. 264; p. 351.
- "L'Aquila Alpina Brand." (For Semolina Macaroni.) Cumberland Macaroni Mfg Co. No. 21,303; July 1; v. 264; p. 154.
- "La Bella Andaluza." (For Smoking-Tobacco.) Hertero Brothers. No. 21,151; Feb. 11; v. 259; p. 382.
- "La Belle." (For Human-Hair Nets.) N. Seligman Merchandise Co., Inc. No. 21,544; Oct. 14; v. 267; p. 339.
- "La Habra." (For Lemons.) La Habra Citrus Association. No. 21,560; Oct. 21; v. 267; p. 485.
- "La Libertad." (For Tomato Paste with Basilico.) La Sierra Heights Canning Co. No. 21,443; Aug. 12; v. 265; p. 303.
- "La Preferita." (For Musical-Instrument Strings Made of Gut.) E. & O. Marl. No. 21,435; Aug. 12; v. 265; p. 303.
- "La Ta'O." (For Hair Remedy.) N. F. Peppa. No. 21,466; Aug. 12; v. 265; p. 303.
- "Lace Design." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 21,325; July 1; v. 264; p. 155.
- "Lata Blanca." (For a Preparation Consisting of Pork Sausage and Cereal Preserved in Lard.) Armour and Company. No. 21,384; Aug. 5; v. 265; p. 143.
- "Lavisian." (For a Preparation for the Scalp.) Thames Drug Company. No. 21,219; Apr. 15; v. 261; p. 628.
- "League of Nations Puzzle." (For Mechanical Puzzles.) F. A. McCabe. No. 21,189; Apr. 8; v. 261; p. 409.
- "Lefas Private Stock Ginger Ale." (For Ginger-Ale.) S. D. Lefas. No. 21,187; Apr. 8; v. 261; p. 409.
- "Lev-I-Tone." (For Eye-Lotion.) M. L. Levitt. No. 21,320; July 1; v. 264; p. 154.
- "Liberty." (For Cantaloups.) Cohen, Mann & Kahn. No. 21,398; Aug. 5; v. 265; p. 143.
- "Liberty Bluing." (For Bluing.) J. F. Czagloszewski. No. 21,305; July 1; v. 264; p. 154.
- "Liberty Cigar." (For Cigars.) C. F. Conrad. No. 21,119; Feb. 4; v. 259; p. 181.
- "Liberty Cigarette." (For Cigarettes.) C. F. Conrad. No. 21,098; Jan. 28; v. 258; p. 812.
- "Lic-O-Rice Life Savers, The Candy Mint With The Hole." (For Candy Lozenges.) Mint Products Company, Inc. No. 21,127; Feb. 4; v. 259; p. 181.
- "London Boot." (For Boots and Shoes.) S. Lipsit. No. 21,601; Dec. 30; v. 269; p. 883.
- "Lorraine." (For Hair-Nets.) S. Glemby, Inc. No. 21,122; Feb. 4; v. 259; p. 181.
- "Lortie's Laundry Marvel The Wonder Washing Powder." (For a Washing-Powder.) C. & H. Lortie. No. 21,445; Aug. 12; v. 265; p. 303.
- "Louvre." (For Canned Sardines.) Neptune Sea Food Co. No. 21,566; Oct. 21; v. 267; p. 485.
- "Lucia." (For Cocoa-Butter Preparation.) Vail Brothers. No. 21,107; Jan. 28; v. 258; p. 812.
- "Lucy Pops." (For Candies.) Eye Brand Confectionery, Inc. No. 21,523; Oct. 14; v. 267; p. 339.
- "Luscious." (For Oranges.) Pasadena Orange Growers' Association. No. 21,469; Aug. 12; v. 265; p. 303.
- "Luxury." (For Canned Sardines.) Neptune Sea Food Co. No. 21,565; Oct. 21; v. 267; p. 485.
- "Lynamite Spark Plugs." (For Spark-Plugs.) Lydon Manufacturing Co. No. 21,602; Dec. 30; v. 269; p. 883.
- "M N Peanut Fluff." (For Candy Confection.) M. N. Neftin. No. 21,332; July 1; v. 264; p. 155.
- "MacDonald's East Indies Tea." (For Tea.) MacDonald & Co. No. 21,448; Aug. 12; v. 265; p. 303.
- "Madam Temple William's T. W. Hair Beautifier." (For a Preparation Which Beautifies and Improves the Hair and Aids its Growth.) T. Williams. No. 21,178; Apr. 1; v. 261; p. 200.
- "Madonna." (For Wrist-Rosary.) Eisenstadt Mfg. Co. No. 21,240; May 20; v. 262; p. 479.
- "Mail Pure Tissue Toilet Paper." (For Toilet-Paper.) C. L. Huff. No. 21,526; Oct. 14; v. 267; p. 339.
- "Magie." (For Dye Soap Flakes.) Magic Mfg Co. No. 21,188; Apr. 8; v. 261; p. 409.
- "Malthop." (For a Non-Intoxicating Cereal Beverage.) Peter Hand Brewery Company. No. 21,547; Oct. 14; v. 267; p. 339.
- "Mammoth Red Rock." (For Cabbage-Seed.) Alfred J. Brown Seed Co. No. 21,491; Sept. 30; v. 266; p. 740.
- "Maple Crest." (For Butter.) H. B. Bates. No. 21,235; May 20; v. 262; p. 479.
- "Maple Nut Bar." (For Nut-Bar Candy.) Curtiss Candy Co. No. 21,230; May 13; v. 262; p. 311.
- "Marine and Structural Paints." (For Paint.) Rex Paint Corporation. No. 21,131; Feb. 4; v. 259; p. 181.
- "Marine Crepe Toilet Paper." (For Toilet-Paper.) C. L. Huff. No. 21,529; Oct. 14; v. 267; p. 339.
- "Marsh-O-Nut Dipp." (For Candy.) Curtiss Candy Co. No. 21,232; May 13; v. 262; p. 311.
- "Mary James Dearos." (For Candy.) Charles N. Miller Company. No. 21,397; Aug. 5; v. 265; p. 143.
- "May-O Belt." (For Corsets.) Lorette Corset Co. No. 21,247; May 20; v. 262; p. 479.
- "Mayberry." (For Gum.) National Pepsin Gum Co. No. 21,154; Feb. 11; v. 259; p. 382.
- "Men-Sal." (For a Preparation for Corns and Calli.) C. F. Moyer, P. D. No. 21,538; Oct. 14; v. 267; p. 339.
- "Meritoria." (For Valencias.) Anaheim Orange & Lemon Association. No. 21,377; Aug. 5; v. 265; p. 143.
- "Michigan Spicy Fruit Chewing Gum." (For Wrappers and Boxes Containing Chewing-Gum.) A. Colker. No. 21,519; Oct. 14; v. 267; p. 339.
- "Milady." (For Human-Hair Nets.) N. Seligman Merchandise Co., Inc. No. 21,478; Aug. 12; v. 265; p. 304.
- "Military Biplane." (For Toy Airplanes, Model Airplanes, and Scale Models of Airplanes.) Lawrence Airplane Model and Supply Company. No. 21,444; Aug. 12; v. 265; p. 303.
- "Million \$ Hair Tonic." (For Hair Tonic.) L. Auerbach. No. 21,385; Aug. 5; v. 265; p. 143.
- "Millionaire Harry." (For Cigars.) H. H. Snovel. No. 21,273; May 20; v. 262; p. 479.
- "Milwaukee Doctor." (For Non-Intoxicating Beverage.) L. J. Masek. No. 21,534; Oct. 14; v. 267; p. 339.
- "Mint-U-Lip." (For Syrup.) Celro-Kola Co. No. 21,354; July 8; v. 264; p. 351.
- "Mirro-Crepe." (For Blouses.) The Blousemakers, Inc. No. 21,390; Aug. 5; v. 265; p. 143.
- "Missouri Briar." (For Smoking-Pipes.) National Cob Pipe Works. No. 21,128; Feb. 4; v. 259; p. 181.
- "Moco Monkey Grip." (For Patches for Automobile-Tires.) Moco Laboratories Inc. No. 21,328; July 1; v. 264; p. 155.
- "Moer-Lo." (For a Non-Intoxicating Cereal Beverage.) The Christian Moerlein Brewing Company. No. 21,302; July 1; v. 264; p. 154.
- "Money Back." (For Tube, Casing and Tube Patches.) Money-Back Laboratories, Inc. No. 21,251; May 20; v. 262; p. 479.

- "Monogram No 3." (For Cigars.) M. Sackheim. No. 21,474; Aug. 12; v. 265; p. 304.
- "Moon Shine Magic Cleaner." (For Cleaning Fluid.) C. E. Murphy. No. 21,459; Aug. 12; v. 265; p. 303.
- "Moss Curled." (For Endive-Seed.) Alfred J. Brown Seed Co. No. 21,499; Sept. 30; v. 266; p. 740.
- "Mother Goose Bread." (For Bread.) H. Conover. No. 21,211; Apr. 15; v. 261; p. 628.
- "Mother Hubbard Bread." (For Bread.) Robertson Paper Company. No. 21,261; May 20; v. 262; p. 479.
- "Mountain View Brand." (For Canned Red Raspberries.) H. A. Baker. No. 21,173; Mar. 18; v. 260; p. 559.
- "Movie." (For Building-Blocks and Construction Toys.) George Borgfeldt & Co. No. 21,419; Aug. 5; v. 265; p. 144.
- "Mr. Lowe's Special True Bread." (For Bread.) General Baking Company. No. 21,150; Feb. 11; v. 259; p. 382.
- "Mustard." (For Mustard.) Perfection Packing Co. Inc. No. 21,105; Jan. 28; v. 258; p. 812.
- "Naco." (For a Preparation for Whitening or Bleaching Clothes and other Articles of Fabric, &c.) Naco Products Co. No. 21,460; Aug. 12; v. 265; p. 303.
- "National Pride." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,455; Aug. 12; v. 265; p. 303.
- "Native Son." (For Grapes.) L. Rusconi. No. 21,263; May 20; v. 262; p. 479.
- "Natural Odor Carnation." (For Toilet Soap.) Armour and Company. No. 21,286; July 1; v. 264; p. 154.
- "Natural Odor Heliotrope." (For Toilet Soap.) Armour and Company. No. 21,283; July 1; v. 264; p. 154.
- "Natural Odor Lilac." (For Toilet Soap.) Armour and Company. No. 21,288; July 1; v. 264; p. 154.
- "Natural Odor Rose." (For Toilet Soap.) Armour and Company. No. 21,285; July 1; v. 264; p. 154.
- "Natural Odor Sandalwood." (For Toilet Soap.) Armour and Company. No. 21,282; July 1; v. 264; p. 154.
- "Natural Odor Violet." (For Violet Soap.) Armour and Company. No. 21,290; July 1; v. 264; p. 154.
- "Neo." (For Nasal Jelly.) M. Robins. No. 21,339; July 1; v. 264; p. 155.
- "Nervona." (For a Compound for Nervous Disorders.) P. Jablonowski. No. 21,598; Dec. 30; v. 269; p. 883.
- "Nestle's Evaporated Milk." (For Evaporated Milk.) Nestles Food Company, Inc. No. 21,608; Dec. 30; v. 269; p. 883.
- "Nestor Johnson North Star Skates—Figure Skate." (For Ice-Skates.) Nestor Johnson Manufacturing Company. No. 21,541; Oct. 14; v. 267; p. 339.
- "Nestor Johnson North Star Skates—Ladies' Hockey." (For Ice-Skates.) Nestor Johnson Manufacturing Company. No. 21,543; Oct. 14; v. 267; p. 339.
- "Nestor Johnson North Star Skates—Ladies' Racer." (For Ice-Skates.) Nestor Johnson Manufacturing Company. No. 21,539; Oct. 14; v. 267; p. 339.
- "Nestor Johnson North Star Skates—Men's Hockey." (For Ice-Skates.) Nestor Johnson Manufacturing Company. No. 21,542; Oct. 14; v. 267; p. 339.
- "Nestor Johnson North Star Skates—Men's Racer." (For Ice-Skates.) Nestor Johnson Manufacturing Company. No. 21,540; Oct. 14; v. 267; p. 339.
- "New Era Crepe Toilet Paper." (For Toilet-Paper.) C. L. Huff. No. 21,527; Oct. 14; v. 267; p. 339.
- "No Protest." (For Cigars.) V. Levor. No. 21,358; July 8; v. 264; p. 351.
- "Non-Spill Sanitary Dairy Pail." (For Dairy Pails.) Non-Spill Sanitary Pail Company. No. 21,609; Dec. 30; v. 269; p. 883.
- "Norseman." (For Canned Sardines.) Nielsen & Kittle Canning Co. Ltd. No. 21,361; July 8; v. 264; p. 351.
- "Nut-Butter Brand Nut Margarine." (For Margarin.) Narragansett Dairy Co. Ltd. No. 21,330; July 1; v. 264; p. 155.
- "Oh-So-Good." (For Bread.) The R. B. Biscuit Company. No. 21,097; Jan. 28; v. 258; p. 812.
- "Oh! So Good." (For Candy.) So-Good Candy Manufacturing Co. No. 21,583; Nov. 11; v. 268; p. 378.
- "Ohio Club." (For Ginger-Ale.) The Ohio Beverage Company. No. 21,461; Aug. 12; v. 265; p. 303.
- "Old Capitol Brand." (For Canned California Sardines.) K. Hovden Co. No. 21,100; Jan. 28; v. 258; p. 812.
- "Old Tailor Bourbon." (For a Non-Alcoholic Distilled Beverage.) M. Rubin. No. 21,342; July 1; v. 264; p. 155.
- "Olene." (For Spraying Compounds for Citrus Trees.) Standard Chemical Co. No. 21,204; Apr. 8; v. 261; p. 409.
- "Optima." (For Fresh Citrus Fruits.) Valley View Ranch. No. 21,205; Apr. 8; v. 261; p. 409.
- "Orange-Aids." (For Cartons for Hard Candy.) E. J. Brach & Sons. No. 21,146; Feb. 11; v. 259; p. 382.
- "Orange Brand." (For Oleomargarin.) Corkran, Hill & Co., Inc. No. 21,504; Sept. 30; v. 266; p. 740.
- "Orange City Water." (For Mineral Water.) Orange City Mineral Spring Company. No. 21,567; Oct. 21; v. 267; p. 485.
- "Orange Smack." (For Non-Intoxicating Beverage.) D. N. Goldberg. No. 21,524; Oct. 14; v. 267; p. 339.
- "Othine—Double Strength." (For Treatment for Freckles.) Othine Laboratories. No. 21,610; Dec. 30; v. 269; p. 883.
- "Our Pride." (For Grapes.) L. Rusconi. No. 21,264; May 20; v. 262; p. 479.
- "Over-The-Top." (For Coffee.) El Reno Wholesale Grocery Co. No. 21,309; July 1; v. 264; p. 154.
- "Owl Clips." (For Paper-Clips.) Owl Supply Company. No. 21,462; Aug. 12; v. 265; p. 303.
- "Ox-Wa." (For Charged Table-Water.) A. D. Shepard. No. 21,482; Aug. 12; v. 265; p. 304.
- "Oxnard." (For Lemons.) Oxnard Citrus Ass'n. No. 21,463; Aug. 12; v. 265; p. 303.
- "Oxo Beef Tea Cordial." (For Beef-Tea Cordial.) Oxo Limited, Inc. No. 21,611; Dec. 30; v. 269; p. 883.
- "Pacific." (For Canned Fish-Balls.) Stuart Fish Products Co., Inc. No. 21,345; July 1; v. 264; p. 155.
- "Package Elect." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 21,250; May 20; v. 262; p. 479.
- "Par." (For Cigarettes.) W. B. Glenn. No. 21,313; July 1; v. 264; p. 154.
- "Parasilk." (For Barber Head-Rest Paper.) The Paper Specialty Co. No. 21,465; Aug. 12; v. 265; p. 303.
- "Parex." (For Canned Sardines.) R. F. Howard. No. 21,102; Jan. 28; v. 258; p. 812.
- "Pasaco." (For Tomato Sauce.) M. Rosenthal. No. 21,130; Feb. 4; v. 259; p. 181.
- "Pasco." (For Canned Pimentos.) N. T. Keefe. No. 21,317; July 1; v. 264; p. 154.
- "Pasco." (For Greases.) Pan-America Supply Company Inc. No. 21,464; Aug. 12; v. 265; p. 303.
- "Patria." (For Food Products.) I. Burger. No. 21,279; June 17; v. 263; p. 480.
- "Pawnee Ant Exterminator." (For an Insecticide.) Thames Drug Company. No. 21,220; Apr. 15; v. 261; p. 628.
- "Peacock Border." (For Candy.) Milwaukee Paper Box Company. No. 21,326; July 1; v. 264; p. 155.
- "Peerless." (For Canned Salmon.) Northwestern Fisheries Co. No. 21,252; May 20; v. 262; p. 479.
- "Peerless Brand Beef Tongues." (For Beef-Tongues.) Peerless Food Products Co. No. 21,165; Feb. 25; v. 259; p. 776.
- "Penick & Ford's Brown Label Brer Rabbit Brand." (For Sugar-Cane Products and Corn-Syrup.) Penick & Ford, Ltd. No. 21,198; Apr. 8; v. 261; p. 409.
- "Penick & Ford's Gold Label Brer Rabbit Brand." (For Pure New Orleans Molasses.) Penick & Ford, Ltd. No. 21,199; Apr. 8; v. 261; p. 409.
- "Penick & Ford's Green Label Brer Rabbit Brand." (For Pure New Orleans Molasses.) Penick & Ford, Ltd. No. 21,201; Apr. 8; v. 261; p. 409.
- "Penick & Ford's Red Label Brer Rabbit Brand." (For Pure Country Sorghum.) Penick & Ford, Ltd. No. 21,200; Apr. 8; v. 261; p. 409.
- "Pep." (For a Non-Alcoholic Beverage.) J. W. H. Randall. No. 21,363; July 8; v. 264; p. 351.
- "Pepalac." (For Medicine.) Dr. R. H. Garm. No. 21,586; Dec. 9; v. 269; p. 891.
- "Pepper-Mint Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,403; Aug. 5; v. 265; p. 143.
- "Perfect Sure-Fit Fastner." (For Snap-Buttons or Garment-Fasteners.) E. Gurney. No. 21,426; Aug. 5; v. 265; p. 144.
- "Perfektone." (For Talking-Machines.) The Perfektone Corporation. No. 21,336; July 1; v. 264; p. 155.
- "Permanite." (For Glazing Compounds.) The Earland Co. No. 21,312; July 1; v. 264; p. 154.
- "Photo Flowers." (For Folders Containing Photographs of Flowers.) C. W. Johnson. No. 21,439; Aug. 12; v. 265; p. 303.
- "Piano Factory and Dealers Polish." (For Furniture-Polish.) A. B. Melody. No. 21,513; Oct. 7; v. 267; p. 181.
- "Piave Brand Macaroni." (For Macaroni.) Massaro Macaroni Company. No. 21,450; Aug. 12; v. 265; p. 303.
- "Pig-Me." (For Toy Furniture.) Wallie Dorr Company. No. 21,348; July 1; v. 264; p. 155.
- "Pillsbury's Pancake Flour." (For Pancake-Flour.) Pillsbury Flour Mills Company. No. 21,215; Apr. 15; v. 262; p. 628.
- "Pine-Oil-Rub." (For Natural Oil of Pine for Coughs and Colds.) Smith-Faus Drug Co. No. 21,203; Apr. 8; v. 261; p. 409.
- "Planters Pennant Brand Peanuts." (For Containers of Peanuts.) Planters Nut & Chocolate Company. No. 21,548; Oct. 14; v. 267; p. 339.
- "Planters Pennant Peanuts." (For Peanuts.) Planters Nut & Chocolate Company. Nos. 21,467-8; Aug. 12; v. 265; p. 303.
- "Platite." (For Compositions for Fitting False Teeth.) Anti-Pyorrhea Chemical Company. No. 21,382; Aug. 5; v. 265; p. 143.
- "Polar Bar." (For Candy-Bars.) Curtiss Candy Co. No. 21,229; May 13; v. 262; p. 311.
- "Polly." (For Canned Tomatoes with Purée from Trimmings.) Moneta Canning Company. No. 21,359; July 8; v. 264; p. 351.



## Alphabetical list of labels—Continued.

- "Polly-Ana." (For Bread.) Pioneer Paper Company. No. 21,470; Aug. 12; v. 265; p. 303.
- "Pom-Orn." (For A Grade A Marmalade.) J. E. See. No. 21,217; Apr. 15; v. 261; p. 628.
- "Pompeian Tuna." (For Canned Tuna Fish.) Musher & Company Incorporated. No. 21,607; Dec. 30; v. 269; p. 883.
- "Ponderosa." (For Tomato-Seeds.) Alfred J. Brown Seed Co. No. 21,503; Sept. 30; v. 266; p. 740.
- "Popper's Ten." (For Cigars.) E. Popper & Co. Inc. No. 21,106; Jan. 28; v. 258; p. 812.
- "Poppy Brand." (For Fresh Asparagus.) Jones & Pettigrew. No. 21,315; July 1; v. 264; p. 154.
- "President." (For Oranges.) San Joaquin Fruit Co. No. 21,368; July 8; v. 264; p. 351.
- "Pro-phylactic Penetrator Hair Brush." (For Hair-Brushes.) Florence Manufacturing Company. No. 21,416; Aug. 5; v. 265; p. 144.
- "Purepack Brand." (For Containers Containing Sausage.) Purity Packing Company. No. 21,612; Dec. 30; v. 269; p. 883.
- "Purisol." (For Soaps.) Purisol Products Corporation. No. 21,259; May 20; v. 262; p. 479.
- "Purple Top White Globe." (For Turnip-Seed.) Alfred J. Brown Seed Co. No. 21,497; Sept. 30; v. 266; p. 740.
- "Pyrosan." (For a Treatment for the Mouth, Gums, and Membranes of the Nose and Throat.) Norton Remedy Corporation. No. 21,143; Feb. 4; v. 259; p. 181.
- "Quail." (For Fresh Pears.) Cook & McKenzie. No. 21,238; May 20; v. 262; p. 479.
- "Raffie-Stone Blocks." (For Toy Building-Blocks.) Ralo Toy Company. No. 21,338; July 1; v. 264; p. 155.
- "Red Star Timer for Fords." (For Timers.) Auto Components, Inc. No. 21,181; Apr. 8; v. 261; p. 409.
- "Redondo." (For Canned Sardines.) Redondo Packing Co. No. 21,364; July 8; v. 264; p. 351.
- "Reliable." (For Lemons.) La Habra Citrus Association. No. 21,561; Oct. 21; v. 267; p. 485.
- "Reversible, Detachable, Double-Cuf a Life-Saver for Fine Shirts." (For Shirts.) Sidney Rosenstein & Co., Incorporated. No. 21,613; Dec. 30; v. 269; p. 883.
- "Rob Roy." (For Coffee.) The Donald Company. No. 21,355; July 8; v. 264; p. 351.
- "Rob Roy." (For Tea.) The Donald Company. No. 21,414; Aug. 5; v. 265; p. 144.
- "Rom-baw Polish The Big Idea." (For a Polish for Dressing Varnished Surfaces.) Rom-baw Chemical Co., Inc. No. 21,262; May 20; v. 262; p. 479.
- "Roskano Chocolates." (For Chocolates.) Roskano Chocolate Co. No. 21,550; Oct. 14; v. 267; p. 339.
- "Ross Quality Is Economy." (For Tank-Bulbs.) Ross Manufacturing Company. No. 21,216; Apr. 15; v. 262; p. 628.
- "Rub-Knot." (For a Powdered Washing Compound.) G. C. Wright. No. 21,486; Aug. 12; v. 265; p. 304.
- "Rusdun." (For Bluing.) The Russell Jobbers' Mills. No. 21,367; July 8; v. 264; p. 351.
- "Russian Maid." (For Wheat-Flour.) Smith & Nettle Company, Inc. No. 21,272; May 20; v. 262; p. 479.
- "Russian Style Fruit Karamel." (For Candy.) The Russian Candy Company. Nos. 21,266-70; May 20; v. 262; p. 479.
- "Saffex." (For a Shampoo.) A. A. West. No. 21,140; Feb. 4; v. 259; p. 181.
- "Sage and Wildroots." (For a Hair-Tonic Preparation.) Ambros Brothers. No. 21,376; Aug. 5; v. 265; p. 143.
- "Sampeck Triple-Service Suit." (For Men's, Young Men's, Boys', Children's, and Juveniles' Outer Suits.) Samuel W. Peck & Co. No. 21,362; July 8; v. 264; p. 351.
- "Sapphire Brand." (For Canned Sardines.) Neptune Sea Food Co. No. 21,563; Oct. 21; v. 267; p. 485.
- "Sauer's F. F. V." (For Flavoring Extracts and Flavors.) C. F. Sauer Company. No. 21,552; Oct. 14; v. 267; p. 339.
- "Save The Surface." (For Paints and Varnishes.) H. A. Gardner. No. 21,576; Nov. 4; v. 268; p. 189.
- "Scout." (For Coffee.) Howard & Casey Co. No. 21,431; Aug. 12; v. 265; p. 303.
- "Senator." (For Oranges.) San Joaquin Fruit Co. No. 21,369; July 8; v. 264; p. 351.
- "Ser-Vus." (For Bread.) Joe Lowe Co. Inc. No. 21,508; Oct. 7; v. 267; p. 181.
- "Ser-Vus." (For Cakes.) Joe Lowe Co., Inc. No. 21,531; Oct. 14; v. 267; p. 339.
- "Serviceable, Adjusto Corsets, Comfortable." (For Corsets.) Royal Worcester Corset Co. No. 21,340; July 1; v. 264; p. 155.
- "Servicised." (For Roofing and other Building Materials.) A. C. Fischer. No. 21,244; May 20; v. 262; p. 479.
- "Shado-Crepe." (For Blouses.) The Blousemakers, Inc. No. 21,391; Aug. 5; v. 265; p. 143.
- "Shawnee Liver Pills." (For Liver-Pills.) H. C. Herp. No. 21,161; Feb. 25; v. 259; p. 776.
- "Shelby Brand." (For Canned Pork and Beans with Tomato Sauce.) Oceana Canning Co. No. 21,103; Jan. 28; v. 258; p. 812.
- "Signode System." (For Reinforcing-Seals.) Signode System, Inc. No. 21,271; May 20; v. 262; p. 479.
- "Skylark." (For Toy Airplanes, Model Airplanes, and Scale-Models of Airplanes.) Lawrence Airplane Model and Supply Company. No. 21,570; Oct. 7; v. 267; p. 181.
- "Snow Crest." (For Pears.) Earl Fruit Company, of the Northwest. No. 21,522; Oct. 14; v. 267; p. 339.
- "Soda Ale." (For Soda-Ale.) P. A. Mandabach. No. 21,512; Oct. 7; v. 267; p. 181.
- "Some." (For Bread.) H. V. Walters. No. 21,206; Apr. 8; v. 261; p. 409.
- "Sonia." (For Valencia.) Anaheim Orange & Lemon Association. No. 21,381; Aug. 5; v. 265; p. 143.
- "Spear-mint Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,402; Aug. 5; v. 265; p. 143.
- "Spear-mint Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,408; Aug. 5; v. 265; p. 143.
- "Spot Slide." (For Garment-Spotter.) J. F. Benedict. No. 21,388; Aug. 5; v. 265; p. 143.
- "St. Regis." (For Canned Sardines.) Neptune Sea Food Co. No. 21,564; Oct. 21; v. 267; p. 485.
- "Sta-Sharp." (For Pencils.) Salz Brothers. No. 21,614; Dec. 30; v. 269; p. 883.
- "Stay There." (For Hair-Tonic.) Beamon, Jeffords & Beamon Co. No. 21,224; Apr. 22; v. 261; p. 798.
- "Steel Brand." (For Canned Sardines.) Steel Packing Co. No. 21,477; Aug. 12; v. 265; p. 304.
- "Steel Brand." (For Canned Spinach.) Steel Packing Co. No. 21,479; Aug. 12; v. 265; p. 304.
- "Sterile Surgical Sutures." (For Sterile Surgical Sutures and Ligatures.) Davis & Geck, Inc. No. 21,306; July 1; v. 264; p. 154.
- "Sulfern Soap." (For Soap.) The National Sulfern Soap Co. No. 21,329; July 1; v. 264; p. 155.
- "Sulphozin." (For a Face and Skin Lotion.) Sulphozin Co. No. 21,214; Apr. 15; v. 261; p. 628.
- "Sum \$5,400,000 Quality." (For Nut and Fruit Bars.) The Nut House Incorporated. No. 21,255; May 20; v. 262; p. 479.
- "Sunkist." (For Candy.) Sunkist Candy Co. No. 21,481; Aug. 12; v. 265; p. 304.
- "Sunseal." (For Corn Cereals.) The Patent Cereals Company. No. 21,129; Feb. 4; v. 259; p. 181.
- "Sunset Chocolates." (For Chocolates.) Buhr, Pfaff & Co. No. 21,394; Aug. 5; v. 265; p. 143.
- "Sunshine." (For Soap Powders.) S. J. Diffe. No. 21,521; Oct. 14; v. 267; p. 339.
- "Sunshine Special." (For Oranges.) B. G. Rooke. No. 21,472; Aug. 12; v. 265; p. 304.
- "Sunshine Special." (For Fresh Grapes.) B. G. Rooke. No. 21,473; Aug. 12; v. 265; p. 304.
- "Super." (For Rubber Patches.) Super Sales Company. No. 21,551; Oct. 14; v. 267; p. 339.
- "Supero." (For Lubricating-Oil.) The Lubric Oil Company. No. 21,447; Aug. 12; v. 265; p. 303.
- "Sure-Grip." (For a Rubber Patch.) The Western Kentucky Tire Co. No. 21,141; Feb. 4; v. 259; p. 181.
- "Surety." (For Canned Apricots.) Harbor City Canning Company. No. 21,596; Dec. 30; v. 269; p. 883.
- "Sweetheart Confections." (For Confections.) Harter Candy Co. No. 21,507; Oct. 7; v. 267; p. 181.
- "Swiss Chard." (For Beet-Seed.) Alfred J. Brown Seed Co. No. 21,502; Sept. 30; v. 266; p. 740.
- "Sylvan Carnation Toilet Soap." (For Toilet Soap.) No. 21,371; July 8; v. 264; p. 351.
- "Sylvan Heliotrope Toilet Soap." (For Toilet Soap.) Armour and Company. No. 21,281; July 1; v. 264; p. 154.
- "Sylvan Lilac Toilet Soap." (For Toilet Soap.) Armour and Company. No. 21,287; July 1; v. 264; p. 154.
- "Sylvan Rose Toilet Soap." (For Toilet Soap.) Armour and Company. No. 21,284; July 1; v. 264; p. 154.
- "Sylvan Sandalwood Toilet Soap." (For Toilet Soap.) Armour and Company. No. 21,289; July 1; v. 264; p. 154.
- "Sylvan Violet Toilet Soap." (For Toilet Soap.) Armour and Company. No. 21,291; July 1; v. 264; p. 154.
- "Talked of Package." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,456; Aug. 12; v. 265; p. 303.
- "Tan-Sav." (For Preparations for Relief of Colds and Catarrh.) J. Saadi. No. 21,343; July 1; v. 264; p. 155.
- "Tapestry Package." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,562; Oct. 21; v. 267; p. 485.
- "Taste Well." (For Bread.) Joe Lowe Co., Inc. No. 21,532; Oct. 14; v. 267; p. 339.
- "Taste Well." (For Cake.) Joe Lowe Co., Inc. No. 21,509; Oct. 7; v. 267; p. 181.
- "Taylor's Liquid Foot-Remedy." (For Taylor's Liquid Foot Remedy.) H. Braude. No. 21,159; Feb. 25; v. 259; p. 776.

- "Tech Beverage." (For Non-Intoxicating Beverages.) Pittsburgh Brewing Company. No. 21,156; Feb. 11; v. 259; p. 382.
- "Terris." (For White Dye Bleach for Panamas and Straw Hats.) J. Terris. No. 21,346; July 1; v. 264; p. 155.
- "The Chief Nut." (For Nut and Fruit Bars.) The Nut House Incorporated. No. 21,254; May 20; v. 262; p. 479.
- "The Confection of Good Taste." (For Butter-Scotch.) B. C. Weisberg. No. 21,571; Oct. 21; v. 267; p. 485.
- "The Miller Sock." (For Men's Socks.) S. S. Miller. No. 21,190; Apr. 8; v. 261; p. 409.
- "The Ottumwa Cigar O. K." (For Cigars.) Pallister Bros. No. 21,257; May 20; v. 262; p. 479.
- "The Pretty Village." (For Toy Villages.) McLoughlin Bros. Incorporated. No. 21,323; July 1; v. 264; p. 155.
- "The Star's Palette Outfit." (For Children's Paint Sets.) Star Crayon Manufacturing Company, Inc. No. 21,176; Mar. 18; v. 260; p. 559.
- "Thomas J. Webb." (For Coffee.) Puhl-Webb Co. No. 21,166; Feb. 25; v. 259; p. 776.
- "3 C Coal Saver." (For a Substance for Treating Coal.) Coal Conservation Company. No. 21,573; Nov. 4; v. 268; p. 189.
- "Thurber Brand Asparagus." (For Asparagus.) Alfred Putnam & Company. No. 21,372; Aug. 5; v. 265; p. 143.
- "Thurber California Style Bartlett Pears." (For Pears.) Alfred Putnam & Company. No. 21,374; Aug. 5; v. 265; p. 143.
- "Tiger Toilet Tissue." (For Toilet-Paper.) National Paper Products Company. No. 21,580; Nov. 4; v. 268; p. 189.
- "Tip Top." (For Ginger-Beer.) J. S. Roth. No. 21,366; July 8; v. 264; p. 351.
- "Tommy Tucker." (For Canned Peaches.) H. G. Prince & Co. No. 21,582; Nov. 4; v. 268; p. 189.
- "Touraine." (For Candy.) The Touraine Company. No. 21,274; May 20; v. 262; p. 479.
- "Touraine Chocolates Boston Made." (For Candy.) The Touraine Company. No. 21,275; May 20; v. 262; p. 479.
- "Towels That Keep The Whole World Dry." (For Towels.) Embourg Textile Co., Inc. No. 21,585; Dec. 9; v. 269; p. 391.
- "Trench Tubes." (For Trench Tubes.) Davis & Geck, Inc. No. 21,410; Aug. 5; v. 265; p. 143.
- "Tri-Eats." (For Candy.) Milwaukee Paper Box Company. No. 21,194; Apr. 8; v. 261; p. 409.
- "Tru-Blu." (For Bluing.) Lyons Chemical Works. No. 21,322; July 1; v. 264; p. 155.
- "Twin Buttes." (For Canned Tomatoes.) La Sierra Heights Canning Company. No. 21,319; July 1; v. 264; p. 154.
- "Twinty Snaps, Two Parts With But a Single Snap." (For Snap-Fasteners.) Federal Snap Fastener Corporation. No. 21,149; Feb. 11; v. 259; p. 382.
- "Usco Kold-Pak." (For Jar-Rubbers.) United States Rubber Company. No. 21,370; July 8; v. 264; p. 351.
- "Utopian." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 21,536; Oct. 14; v. 267; p. 339.
- "Valu Gage Field Fencing, Number 9 Series." (For Woven-Wire Field-Fencing.) J. Armstrong. No. 21,168; Mar. 11; v. 260; p. 391.
- "Valu Gage Field Fencing, Number 11 Series." (For Woven-Wire Field-Fencing.) J. Armstrong. No. 21,169; Mar. 11; v. 260; p. 391.
- "Valu Gage Field Fencing, Number 12 Series." (For Woven-Wire Field-Fencing.) J. Armstrong. No. 21,170; Mar. 11; v. 260; p. 391.
- "Valu Gage Field Fencing, Number 11 Series." (For Woven-Wire Field-Fencing.) J. Armstrong. No. 21,180; Apr. 8; v. 261; p. 409.
- "Vanity Fair." (For a Non-Alcoholic Beverage.) D. N. Goldberg. No. 21,420; Aug. 5; v. 265; p. 144.
- "Vanomar." (For Canned Peaches.) Vanomar Producers. No. 21,108; Jan. 28; v. 258; p. 812.
- "Vellner's Albinol." (For Soap.) E. Vellner. No. 21,483; Aug. 12; v. 265; p. 304.
- "Veratone." (For Elixir Veratone Compound.) V. N. Halabi. No. 21,123; Feb. 4; v. 259; p. 181.
- "Victor." (For Non-Intoxicating Beverages.) F. A. Maddas. No. 21,449; Aug. 12; v. 265; p. 303.
- "Victor." (For Beer.) The Victor Brewing Company. No. 21,570; Oct. 21; v. 267; p. 485.
- "Victory Boys' Wash Suits." (For Boys' Wash-Suits.) L. J. Freedman. No. 21,311; July 1; v. 264; p. 154.
- "Victory Punch." (For Victory Punch Tablets.) S. M. Hoye. No. 21,433; Aug. 12; v. 265; p. 303.
- "Virginia Chocolates." (For Chocolates.) Buhr, Pfaff & Co. No. 21,395; Aug. 5; v. 265; p. 143.
- "Voegel's Pine Sugar Stick Candy." (For Candy.) Voegel & Dinning Co., Inc. No. 21,616; Dec. 30; v. 269; p. 883.
- "Walker's Devilment." (For Insecticide.) N. S. Walker. No. 21,138; Feb. 4; v. 259; p. 181.
- "Warm Knit." (For Knit Underwear.) Red River Woolen Mills Co. No. 21,157; Feb. 11; v. 259; p. 382.
- "Washjoy." (For a Washing Compound.) Walters Mfg. Co. No. 21,516; Oct. 7; v. 267; p. 181.
- "Waukesha." (For Oleomargarin.) American Standard Food Association. No. 21,179; Apr. 8; v. 261; p. 409.
- "Welch's Grapelade The National Spread." (For a Spread.) The Welch Grape Juice Company. No. 21,221; Apr. 15; v. 261; p. 628.
- "West Gold Seal Hair Net." (For Hair-Nets.) A. A. West. No. 21,109; Jan. 28; v. 258; p. 812.
- "Westmoreland Dependable Confections." (For Confections.) Westmoreland Candy Co., Inc. No. 21,517; Oct. 7; v. 267; p. 181.
- "White Label." (For Non-Intoxicating Beverages.) Greensburg Brewing Company. No. 21,421; Aug. 5; v. 265; p. 144.
- "White Lily Chewing Gum." (For Chewing-Gum.) A. Colker. No. 21,401; Aug. 5; v. 265; p. 143.
- "White Plume." (For Celery-Seed.) Alfred J. Brown Seed Co. No. 21,501; Sept. 30; v. 266; p. 740.
- "White-Russ Oil." (For a Medicinal Oil.) The Lubric Oil Company. No. 21,533; Oct. 14; v. 267; p. 339.
- "Whittier Brand." (For Oranges.) Whittier Citrus Association. No. 21,485; Aug. 12; v. 265; p. 304.
- "Wigwam." (For Oranges.) A. C. Terwilliger. No. 21,136; Feb. 4; v. 259; p. 181.
- "William Tell." (For Grapes.) L. Rusconi. No. 21,265; May 20; v. 262; p. 479.
- "Wilson Club." (For Ginger-Ale.) E. W. Laporte. No. 21,164; Feb. 25; No. 259; p. 776.
- "Wilson Sun-Beam Auto Polish." (For a Liquid to Polish Bodies of Automobiles, Musical Instruments, Furniture, and Fixtures.) C. A. Wilson. No. 21,350; July 1; v. 264; p. 155.
- "Windham Corn." (For Corn.) Alfred Putnam & Company. No. 21,373; Aug. 5; v. 265; p. 143.
- "Xtragood." (For Bread.) The R. B. Biscuit Co. No. 21,210; Apr. 15; v. 261; p. 628.
- "X-Z-Ma-Kure." (For a Remedy for Eczema, Poison-Oak, and All Kindred Skin Diseases.) Hertz & Williams. No. 21,126; Feb. 4; v. 259; p. 181.
- "Yale Princeton Football Game." (For a Game.) McLoughlin Bros., Inc. No. 21,603; Dec. 30; v. 269; p. 883.
- "Yosemite." (For Canned Peaches.) William Cluff Co. Yucca Brand Pink Meat Cantaloupes." (For Cantaloupes.) Crutchfield & Woolfolk. No. 21,409; Aug. 5; v. 265; p. 143.
- "Yukon's Best." (For Pancake-Flour.) Yukon Mill & Grain Co. No. 21,487; Aug. 12; v. 265; p. 304.
- "Zenith American Daylight Fire Works, Zenith Products Co., Spring Lake, Mich., U. S. A. (For Fireworks.) Zenith Products Company. No. 21,572; Oct. 21; v. 267; p. 485.

## ALPHABETICAL LIST OF PRINTS.

- "A pound of P. A. That's the happy holiday hunch, all-right!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,068; Feb. 25; v. 259; p. 776.
- "A. D. S. Beef Iron and Wine." (For Beef, Iron, and Wine.) American Druggists Syndicate. Nos. 5,111-13; July 1; v. 264; p. 156.
- "A. D. S. Cold and Grippe Tablets." (For Cold and Grippe Tablets.) American Druggists Syndicate. Nos. 5,108-10; July 1; v. 264; p. 156.
- "A. D. S. Expectorant White Pine Nature's Cough Remedy." (For an Expectorant.) American Druggists Syndicate. Nos. 5,061-3; Feb. 25; v. 259; p. 776.
- "Above All." (For Kirk's Flake Soap.) James S. Kirk & Company. No. 5,096; May 20; v. 262; p. 480.
- "All Champions." (For Tires and Tubes.) Brander Rubber & Tire Co. No. 5,081; Apr. 8; v. 261; p. 409.
- "Always Writes All Ways." (For Pencils and Fountain-Pens.) W. A. Sheaffer Pen Company. No. 5,162; Aug. 12; v. 265; p. 304.
- "Any American Family Knows Why." (For Kirk's American Family Soap.) James S. Kirk & Company. No. 5,056; Feb. 11; v. 259; p. 382.
- "Approved." (For Type-Writing Machines.) Underwood Typewriter Company. No. 5,078; Mar. 25; v. 260; p. 730.
- "Athena." (For Underwear.) Marshall Field and Company. No. 5,058; Feb. 11; v. 259; p. 382.
- "Ball Bearings." (For Ball-Bearings.) The New Departure Manufacturing Company. No. 5,102; May 20; v. 262; p. 480.
- "Ball Bearings." (For Ball-Bearings.) R. F. Rogers. No. 5,153; Aug. 12; v. 265; p. 304.



## Alphabetical list of prints—Continued.

- "Bar of Bars." (For Nut and Fruit Bars.) The Nut House Incorporated. No. 5,151; Aug. 12; v. 265; p. 304.
- "Beach's 'All Leather' Pocket-Books, 'Best for Your Money.'" (For Pocket-Books.) The Beach Leather Company. No. 5,164; Oct. 14; v. 267; p. 340.
- "Black Cat." (For Furniture.) C. S. Reuter. No. 5,152; Aug. 12; v. 265; p. 304.
- "Boys' Clothes." (For Boys' Clothes.) The Perlstein Co., Inc. No. 5,181; Dec. 9; v. 269; p. 391.
- "Bunte The Quality Cocoa." (For Cocoa.) Bunte Brothers. No. 5,125; July 8; v. 264; p. 351.
- "Burgess' Perfection Coffee & Tea Pot." (For Coffee and Tea Pots.) W. J. Burgess. No. 5,052; Feb. 11; v. 259; p. 382.
- "Burton's School Day Suiting." (For 'Cotton Piece Goods.) Burton Bros. & Co. No. 5,056; Feb. 4; v. 259; p. 182.
- "California Fruits." (For Fruit.) Penryn Fruit Co. No. 5,103; May 20; v. 262; p. 480.
- "Cheney." (For Phonographs.) Cheney Talking Machine Company. No. 5,175; Nov. 4; v. 268; p. 189.
- "Cleanses and Colors Instantly." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,122; July 1; v. 264; p. 156.
- "Colgate's Cleaning the Teeth Game." (For Ribbon Dental Cream.) Colgate & Co. No. 5,183; Dec. 30; v. 269; p. 883.
- "Collapsible 'Slot-Lock' Wrench." (For Wrenches.) L. L. Manufacturing Company. No. 5,057; Feb. 11; v. 259; p. 382.
- "Come in, let us show you Detmer University Novelties Latest Suitings." (For Detmer Woolens.) Detmer Woolen Co. Nos. 5,082-3; Apr. 15; v. 261; p. 628.
- "Construction Crew Blanket." (For Bed-Blankets.) The Beckman Company. No. 5,064; Feb. 25; v. 259; p. 776.
- "Council Meats, A Meat Market On Your Pantry Shelf." (For Canned Meat.) Indian Packing Company. No. 5,094; May 20; v. 262; p. 480.
- "Council Meats From the Wisconsin Country to You." (For Canned Meats.) Indian Packing Company. No. 5,095; May 20; v. 262; p. 480.
- "Creamettes." (For Macaroni.) The Creamette Company. No. 5,177; Nov. 4; v. 268; p. 189.
- "Day-Night." (For Watches.) Knickerbocker Watch Co. No. 5,148; Aug. 5; v. 265; p. 144.
- "Daynite." (For Watches.) Knickerbocker Watch Co. 5,147; Aug. 5; v. 265; p. 144.
- "Dayton Wheels—The Spokes Arch into the Rim with Broad Sweeping Curves." (For Wheels.) The Dayton Steel Foundry Company. No. 5,065; Feb. 25; v. 259; p. 776.
- "Discharged from Active Service." (For Type-Writing Machines.) Underwood Typewriter Company. No. 5,074; Mar. 25; v. 260; p. 730.
- "Dixie Diamond Coal." (For Coal.) Chicago Coal & Mining Company. No. 5,092; May 20; v. 262; p. 480.
- "Don't Buy New Corsets." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,121; July 1; v. 264; p. 156.
- "Drink Moxie." (For Moxie.) The Moxie Co. Nos. 5,173-4; Oct. 21; v. 267; p. 485.
- "Dye It the Easiest Way." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,123; July 1; v. 264; p. 156.
- "Eatsome Edgemonts." (For Crackers.) The Green & Green Co. No. 5,171; Oct. 21; v. 267; p. 485.
- "Every Atom Cleanses." (For Kirk's American Family Soap.) James S. Kirk & Company. No. 5,053; Feb. 11; v. 259; p. 382.
- "Every Mother Knows Why." (For Kirk's American Family Soap.) James S. Kirk & Company. No. 5,054; Feb. 11; v. 259; p. 382.
- "Fairly Sponge Chocolate Cream Cake." (For Cakes.) Ward Baking Company. No. 5,170; Oct. 14; v. 267; p. 340.
- "Fashionable Colors Instantly." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,120; July 1; v. 264; p. 156.
- "Fire Proof and Fool Proof Metal, Gravel and Sand Katcher." (For Catchers of Metal and Like Foreign Substances that May Enter with the Feed in Reducing Mills.) Williams Patent Crusher & Pulverizer Co. No. 5,087; Apr. 15; v. 261; p. 628.
- "From Childhood to Old Age—Dr. Swett's Root Beer." (For Root-Beer.) The Dr. Swett Root Beer Company. No. 5,093; May 20; v. 262; p. 480.
- "From Service to Country." (For Type-Writing Machines.) Underwood Typewriter Company. No. 5,076; Mar. 25; v. 260; p. 730.
- "From War to Peace." (For Type-Writing Machines.) Underwood Typewriter Company. No. 5,079; Mar. 25; v. 260; p. 730.
- "Get Wise, Dad, Wear R. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 5,126; July 8; v. 264; p. 351.
- "Gooch's Best Flour." (For Bread.) Gooch Milling & Elevator Co. No. 5,145; Aug. 5; v. 265; p. 144.
- "Gooch's Best Self Rising Pancake-Flour." (For Pancake-Flour.) Gooch Milling & Elevator Co. No. 5,146; Aug. 5; v. 265; p. 144.
- "Have You Max-Well Known Round Stove With a Flue?" (For Gaseous, Liquid, and Solid Fuel Burning Stoves and Heaters, Not Electrical.) H. McKinnie. No. 5,116; July 1; v. 264; p. 156.
- "History." (For Furniture.) J. S. Blankenship. No. 5,080; Apr. 8; v. 261; p. 409.
- "Ice Cream." (For Ice-Cream.) Wolf Advertising Co. No. 5,088; Apr. 22; v. 261; p. 798.
- "I'll say it is!" (For Smoking-Tobacco.) R. J. Reynolds. No. 5,127; July 8; v. 264; p. 351.
- "In 1866 W. L. Douglas Opened a Retail Shoe Store in Golden City, Colo." (For Shoes.) W. L. Douglas Shoe Co. No. 5,043; Jan. 28; v. 258; p. 812.
- "It's Great, Boys, To Climb Into B. V. D." (For Athletic Underwear.) The B. V. D. Company. No. 5,138; Aug. 5; v. 265; p. 144.
- "Its Quality." (For Bread.) P. J. Stern. No. 5,118; July 1; v. 264; p. 156.
- "Jug-L-Ball." (For a Game.) E. Carraine. No. 5,142; Aug. 5; v. 265; p. 144.
- "Just Like New-Again!" (For Kirk's Flake Soap.) James S. Kirk & Company. No. 5,100; May 20; v. 262; p. 480.
- "Lafayette." (For Automobiles.) C. H. Wills. No. 5,165; Oct. 14; v. 267; p. 340.
- "Let Us Place You Here." (For Flour-Mills.) Anglo-American Mill Company. No. 5,136; Aug. 5; v. 265; p. 144.
- "License Plate Holder." (For License-Plate Holders.) Alfa Specialty Co. No. 5,089; May 20; v. 262; p. 480.
- "Loved by Children." (For Kirk's Jap Rose Soap.) James S. Kirk & Company. No. 5,098; May 20; v. 262; p. 480.
- "Make Every Day a Color Day." (For Dye-Soap.) Sunbeam Chemical Co. No. 5,049; Feb. 4; v. 259; p. 182.
- "Make Old Portieres look like New." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,060; Feb. 11; v. 259; p. 382.
- "Measurement Blank." (For Automobile-Tops.) Buob & Scheu. No. 5,041; Jan. 28; v. 258; p. 812.
- "Measurement Blank." (For Commercial Purposes for the Manufacture of Automobile-Tops.) Buob & Scheu. No. 5,072; Mar. 25; v. 260; p. 730.
- "Mentholyptine." (For Medicinal Preparations.) L. W. Hall. No. 5,149; Aug. 5; v. 265; p. 144.
- "Menu." (For Cream of Wheat Breakfast Food.) Cream of Wheat Co. No. 5,144; Aug. 5; v. 265; p. 144.
- "Mg." (For Metallic Magnesium.) The Norton Laboratories. No. 5,066; Feb. 25; v. 259; p. 776.
- "Mother Goose Brooms." (For Brooms.) M. G. Scoville Sons Company. No. 5,133; July 8; v. 264; p. 351.
- "Mr. Thrift." (For Clothing.) The Samuel Stores, Inc. No. 5,158; Aug. 12; v. 265; p. 304.
- "Mrs. Thrift." (For Clothing.) The Samuel Stores, Inc. No. 5,159; Aug. 12; v. 265; p. 304.
- "New Colors for Your Waists." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,119; July 1; v. 264; p. 156.
- "1919." (For Type-Writing Machines.) Underwood Typewriter Company. No. 5,075; Mar. 25; v. 260; p. 730.
- "No use arguing about it, or making chin-music." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,179; Nov. 4; v. 268; p. 189.
- "Over The Top Hair Tonic." (For Hair-Tonic.) N. Ottaviano. No. 5,185; Dec. 30; v. 269; p. 883.
- "P. A. is such a scuttle full of sunshine!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,128; July 8; v. 264; p. 351.
- "Pacific Coast Stacks." (For Stack-Paints.) California Paint Company. No. 5,114; July 1; v. 264; p. 156.
- "Pence." (For Type-Writing Machines.) Underwood Typewriter Company. No. 5,077; Mar. 25; v. 260; p. 730.
- "Peace for jimmy pipe and." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,180; Nov. 4; v. 268; p. 189.
- "Perfektone." (For Talking-Machines.) The Perfektone Corporation. No. 5,117; July 1; v. 264; p. 156.
- "Piedmont Peanut Oil—The Food Oil With the Nut Flavor." (For Virgin Peanut-Oil.) Musher & Company, Incorporated. No. 5,167; Oct. 14; v. 267; p. 340.
- "Producing 48 Pairs of Shoes Per Day." (For Shoes.) W. L. Douglas Shoe Co. No. 5,044; Jan. 28; v. 258; p. 812.
- "Projectionist Ray says." (For Motion-Picture-Projection Machines.) Nicholas Power Co., Inc. No. 5,048; Feb. 4; v. 259; p. 182.
- "Putting it Down, In Black and White." (For Breakfast Food.) Cream of Wheat Co. No. 5,176; Nov. 4; v. 268; p. 189.
- "Quality Without Extravagance—Style Without Experiment." (For Footwear.) George W. Baker Shoe Company. No. 5,141; Aug. 5; v. 265; p. 144.
- "Radium Lighted Dials." (For Watch and Clock Dials.) Travelight Mfg. Co. No. 5,105; May 20; v. 262; p. 480.
- "Regular old 'He' Christmas hand-out!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,067; Feb. 25; v. 259; p. 776.
- "Right from the word Go." (For Rubber Goods.) The Gossamer Rubber Company. No. 5,166; Oct. 14; v. 267; p. 340.

## Alphabetical list of prints—Continued.

- "Rip a couple of planks off your smoke platform when you." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,178; Nov. 4; v. 268; p. 189.
- "Rit" Her Little Wardrobe." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,186; Dec. 30; v. 269; p. 883.
- "Ropeconomy." (For Ropes and Cordage.) Whitlock Cordage Co. No. 5,163; Aug. 12; v. 265; p. 304.
- "Salbro." (For Fountain-Pens.) Salz Bros. No. 5,168; Oct. 14; v. 267; p. 340.
- "Salz Brothers." (For Fountain-Pens.) Salz Bros. No. 5,169; Oct. 14; v. 267; p. 340.
- "Sammies Sure-Stick." (For Motor-Cycle-Tire Patches.) Sammies Rubber Co. No. 5,073; Mar. 25; v. 260; p. 730.
- "Sanitax Sammy Kit." (For Sanitax Sammy Kits.) Sanitax Brush Company. No. 5,059; Feb. 11; v. 259; p. 382.
- "Save Your Spokes—A Sure Cure for Loose Spokes in Auto, Buggy and Wagon Wheels—Tighten Your Spokes Without Removing Your Rims or Tires—Any One Can Use—No Tools Necessary." (For Spoke Compound.) A-C Manufacturing Co. No. 5,135; Aug. 5; v. 265; p. 144.
- "Saving, Service, Satisfaction." (For Automobile-Tires.) C. L. Brockway. No. 5,124; July 8; v. 264; p. 351.
- "Say, what a trick you'll turn for your tongue." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,070; Mar. 11; v. 260; p. 391.
- "Scrub up your smoke decks and cut for a new pipe deal!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,130; July 8; v. 264; p. 351.
- "Sen-Sen makes my cigar taste like a 25¢ Perfecto!" (For Sen-Sen Pellets.) American Chic Company. No. 5,107; July 1; v. 264; p. 156.
- "Service Brand." (For Fabrics in the Piece.) National Mills. No. 5,184; Dec. 30; v. 269; p. 883.
- "Shu-Rain." (For Wind-Shields of Automobiles.) The Mar-Ed National Auto Supply Co. No. 5,101; May 20; v. 262; p. 480.
- "Spot Slide." (For Garment-Spotter.) J. F. Benedict. No. 5,106; May 20; v. 262; p. 480.
- "Stick to Cinco, It's Safe." (For Cinco Cigars.) Otto Eisenlohr & Bros., Incorporated. No. 5,084; Apr. 15; v. 261; p. 628.
- "Take It From Me, Insist On B. V. D.!" (For Athletic Underwear.) The B. V. D. Company. No. 5,139; Aug. 5; v. 265; p. 144.
- "Talk about indoor and outdoor sports." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,132; July 8; v. 264; p. 351.
- "Tastykake." (For Cake.) Tasty Baking Company. No. 5,085; Apr. 15; v. 261; p. 628.
- "Tell it to your old jimmy pipe!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,129; July 8; v. 264; p. 351.
- "The Canteen That 'Sure Comes Clean.'" (For Athletic Underwear.) The B. V. D. Company. No. 5,091; May 20; v. 262; p. 480.
- "The Charm of Youthful Colors." (For Dye-Soap.) Sunbeam Chemical Company. No. 5,160; Aug. 12; v. 265; p. 304.
- "The Chief Nut." (For Nut and Fruit Bars.) The Nut House Incorporated. No. 5,150; Aug. 12; v. 265; p. 304.
- "The Coffee House is Coming Back." (For Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,172; Oct. 21; v. 267; p. 485.
- "The Doughboy's Return." (For Athletic Underwear.) The B. V. D. Company. No. 5,090; May 20; v. 262; p. 480.
- "The Home Trinity." (For Electric Washing, Sweeper, and Ironing Machine.) F. C. Silberhorn. No. 5,104; May 20; v. 262; p. 480.
- "The Hoover Style Grocer." (For Packaged Groceries.) A. N. Girard. No. 5,047; Feb. 4; v. 259; p. 182.
- "The Pickwick Service Stores." (For Self-Service Stores.) C. G. Johnson. No. 5,115; July 1; v. 264; p. 156.
- "The Thrift Family." (For Clothing.) The Samuel Stores, Inc. No. 5,155; Aug. 12; v. 265; p. 304.
- "The Walking Doll." (For Walking Dolls.) "Babs" Manufacturing Corporation. No. 5,182; Dec. 30; v. 269; p. 883.
- "The Williams World Beater." (For Crushers and Pulverizers.) Williams Patent Crusher & Pulverizer Co. No. 5,086; Apr. 15; v. 261; p. 628.
- "The World's Greatest Shoemaker." (For Shoes.) W. L. Douglas Shoe Co. No. 5,045; Jan. 28; v. 258; p. 812.
- "Thomas Awning Company." (For Awnings.) C. Thoms. No. 5,134; July 8; v. 264; p. 351.
- "Tommy Thrift." (For Clothing.) The Samuel Stores, Inc. No. 5,156; Aug. 12; v. 265; p. 304.
- "Tucio Union Suits." (For Union-Suits.) Troy Underwear Co., Inc. No. 5,161; Aug. 12; v. 265; p. 304.
- "Vera Thrift." (For Clothing.) The Samuel Stores, Inc. No. 5,157; Aug. 12; v. 265; p. 304.
- "W. L. Douglas Used to Lead the Old Plough Horse." (For Shoes.) W. L. Douglas Shoe Co. No. 5,042; Jan. 28; v. 258; p. 812.
- "We Manufacture Over 257 Varieties." (For Crushers and Pulverizers of Limestone and Like Material and Reducing-Machines.) Williams Patent Crusher & Pulverizer Co. No. 5,051; Feb. 4; v. 259; p. 182.
- "Welcome Home, Boys." (For Cream of Wheat Breakfast Food.) Cream of Wheat Co. No. 5,143; Aug. 5; v. 265; p. 144.
- "When Household Expenses Worry." (For Kirk's American Family Soap.) James S. Kirk & Company. No. 5,055; Feb. 11; v. 259; p. 382.
- "When you nail the grand idea." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,131; July 8; v. 264; p. 351.
- "Why Buy New Blankets?" (For Kirk's Flake White Soap.) James S. Kirk & Company. No. 5,099; May 20; v. 262; p. 480.
- "Why Do I Use Klenzo." (For Tooth-Paste.) United Drug Company. No. 5,050; Feb. 4; v. 259; p. 182.
- "Yes, dear, I asked for B. V. D. and here's the label." (For Athletic Underwear.) The B. V. D. Company. No. 5,140; Aug. 5; v. 265; p. 144.
- "Yes, Sir! That Label Guarantees Your B. V. D. Quality." (For Athletic Underwear.) The B. V. D. Company. No. 5,137; Aug. 5; v. 265; p. 144.
- "You just get-put with a jimmy pipe brimful of Prince Albert." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,071; Mar. 11; v. 260; p. 391.
- "You'll hand it out on a platter to Prince Albert, lavishly." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,069; Feb. 25; v. 259; p. 776.
- "You'll Like It." (For Kirk's Jap Rose Soap.) James S. Kirk & Company. No. 5,097; May 20; v. 262; p. 480.

## DISCLAIMERS.

- Belt-couplings. G. E. Purple. No. 938,511; date of patent Nov. 2, 1909; disclaimer filed Dec. 15, 1919; v. 269;
- Book-trimming machine, Automatic continuous. T. C. Welch. No. 1,076,726; date of patent Oct. 28, 1913; disclaimer filed Nov. 15, 1919; v. 269; p. 191.
- Cinematograph target apparatus. F. W. Weeks. No. 1,197,567; date of patent Sept. 5, 1916; disclaimer filed Aug. 7, 1919; v. 265; p. 311.
- Circuit-breaker. R. Wolfberg and S. C. Smith. No. 1,253,761; date of patent Jan. 15, 1918; disclaimer filed Aug. 2, 1919; v. 265; p. 151.
- Gases, Apparatus for the production of oxygen and hydrogen. W. Jones. No. 1,212,229; date of patent Jan. 16, 1917; disclaimer filed Sept. 20, 1919; v. 267; p. 490.
- Glue and making the same. F. G. Perkins, deceased; G. S. Perkins, executrix. (Reissue.) No. 13,436; date of patent July 2, 1912; disclaimer filed Feb. 6, 1919; v. 259; p. 187.
- Glue, Making. F. G. Perkins, deceased; G. S. Perkins, executrix. No. 1,020,656; date of patent Mar. 19, 1912; disclaimer filed Feb. 6, 1919; v. 259; p. 187.
- Hot-rolling machine. R. D. Weaver. No. 1,241,482; date of patent Sept. 25, 1917; disclaimer filed Sept. 20, 1919; v. 266; p. 601.
- Ignition-timer. E. B. Jacobson. No. 1,188,451; date of patent June 27, 1916; disclaimer filed Feb. 20, 1919; v. 259; p. 581.

- Loom, Power. S. F. Patterson. (Reissue.) No. 12,159; date of patent Sept. 29, 1903; disclaimer filed Mar. 31, 1919; v. 261; p. 1.
- Nasal device. F. W. Schoonmaker, Jr. No. 1,143,731; date of patent June 22, 1915; disclaimer filed Nov. 3, 1919; v. 268; p. 568.
- Pamphlet-coverer. C. A. Juengst. No. 1,244,861; date of patent Oct. 30, 1917; disclaimer filed Apr. 8, 1919; v. 261; p. 633.
- Roofing elements, Making. F. C. Overbury. No. 1,154,334; date of patent Sept. 21, 1915; disclaimer filed Nov. 22, 1919; v. 269; p. 192.
- Sheet metal, Machine for expanding. L. E. Curtis. No. 796,402; date of patent Aug. 1, 1905; disclaimer filed Dec. 8, 1919; v. 269; p. 399.
- Shoe-manufacturing machine, Pneumatic-tire. W. C. State. No. 941,962; patent dated Nov. 30, 1909; disclaimer filed Feb. 14, 1919; v. 259; p. 389.
- Signature-gathering and wire-stitching machine. C. A. Juengst. (Reissue.) No. 13,967; date of patent Aug. 24, 1915; disclaimer filed Mar. 6, 1919; v. 260; p. 211.
- Slug-casting machines, Quad-block for. D. S. Kennedy. No. 1,193,269; date of patent Aug. 1, 1916; disclaimer filed Apr. 17, 1919; v. 261; p. 635.
- Telephone-exchange system. C. M. Goodrum. No. 1,275,016; date of patent Aug. 6, 1918; disclaimer filed May 10, 1919; v. 262; p. 319.
- Telephone system, Automatic. B. C. Groh. No. 1,271,032; date of patent July 2, 1918; disclaimer filed Sept. 10, 1919; v. 266; p. 601.



# CLASSIFICATION OF PATENTS.

NOTE.—First number=class, second number=subclass, third number=patent number.

1—	1: 1,296,146 1,315,645 2: 1,292,224 1,296,960 1,302,402 3: 1,309,731 6: 1,312,557 1,312,598 7: 1,291,913 1,314,503 11: 1,291,072 1,295,237 12: 1,318,321 14: 1,291,071 1,291,482 1,295,187 1,305,398 1,313,854 1,313,855 1,324,402 1,325,718 1,325,719 15: R. 14,670 1,306,025 1,315,891 1,323,965 1,323,966 1,325,780 16: 1,304,900 18: 1,312,578 1,313,903 1,321,186 19: 1,295,846 1,301,120 1,326,168 20: 1,312,519 1,321,185 26: 1,292,378 1,295,851 32: 1,301,898 1,321,202 1,322,509 1,323,648 36: 1,303,867 1,314,071 39: 1,325,751 41: 1,291,487 1,291,754 1,296,582 1,301,899 45: 1,302,184 1,310,590 47: 1,312,026 1,324,197 48: 1,308,327 51: 1,307,043 56: 1,306,107 9: 1,294,165 1,315,421 11: 1,291,090 1,294,025 1,295,696 1,298,565 1,299,498 1,300,682 1,300,683 1,300,684 1,306,432 1,310,192 1,324,740 1,326,292 15: 1,299,552 1,300,024 1,302,334 1,308,378 1,308,999 1,310,125 1,310,210 1,310,282 1,316,526 1,316,598 1,319,558 1,321,289 1,323,572 23: 1,293,399 1,296,442 1,297,530 1,299,574 1,308,483 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1,307,866 1,310,589 1,318,260 1,319,884 1,304,201 1,321,065 1,322,027 1,322,108 1,323,671 1,324,564 4—	1: 1,297,613 1,300,268 1,300,378 1,304,196 1,305,624 1,314,261 1,317,829 1,320,984 1,323,398 1,323,580 2: 1,297,980 1,301,114 1,309,694 1,314,525 5: 1,290,892 1,292,313 1,292,518 1,292,776 1,293,121 1,296,520 1,298,012 1,298,549 1,299,692 1,299,789 1,300,001 1,300,138 1,300,865 1,302,154 1,302,820 1,302,912 1,304,303 1,304,432 1,304,482 1,305,145 1,306,285 1,307,391 1,307,576 1,308,301 1,309,230 1,309,507 1,310,497 1,311,714 1,313,161 1,313,914 1,314,873 1,315,207 1,315,331 1,316,715 1,318,518 1,318,864 1,318,989 1,319,785 1,320,565 1,321,413 1,321,613 1,323,703 1,325,934 12: 1,304,752 17: 1,292,146 1,297,147 18: 1,290,611 1,292,444 1,293,666
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4— 18: 1,233,955 1,294,098 1,294,687 1,294,747 1,296,220 1,296,666 1,296,901 1,297,031 1,301,779 1,304,095 1,304,511 1,307,162 1,308,406 1,308,581 1,308,596 1,311,759 1,313,236 1,313,740 1,316,871 1,325,310	5— 5: 1,295,393 1,295,713 1,298,496 1,300,621 1,300,872 1,302,434 1,303,487 1,306,042 1,307,399 1,308,187 1,311,177 1,311,579 1,312,299 1,315,294 1,317,141 1,319,658 1,323,201 1,323,610 1,324,009 1,325,045	5— 44: 1,303,368 1,312,439 1,313,428 1,318,129 45: 1,302,155 46: 1,300,069 1,319,849 1,321,911 1,325,488 47: 1,290,759 1,295,443 1,301,215 1,318,286 1,321,606 48: 1,293,784 1,295,935 1,303,473 1,303,613 1,305,642 1,306,475 1,308,030 1,318,285 49: 1,290,152 1,291,208 1,302,774 1,323,563 51: 1,295,840 1,296,278 1,296,612 1,299,885 1,301,936 1,306,756 1,314,109 1,326,295 54: 1,295,449 1,325,218 55: 1,291,855 1,303,109 1,310,166 1,315,341 1,316,113 1,318,222 1,318,823 1,320,969 58: 1,321,183 1,293,001 1,296,569 1,305,857 1,306,598 1,306,614 1,317,177 1,318,569 1,321,905 1,325,335 59: 1,290,585 1,298,873 1,311,782 1,322,616 60: 1,291,629 1,301,174 1,304,440 1,305,440 1,325,320 61: 1,308,096 63: 1,303,969 1,317,299 64: 1,308,674 1,313,341 1,325,935 69: 1,312,612 1,321,814 72: 1,316,662 1,318,590 1,325,967	7— 13: 1,305,587 1,314,255 1,315,644 16: 1,297,797 1,309,715 1,322,826 8— 1: 1,292,385 1,293,680 1,299,070 1,302,971 1,308,060 1,308,552 1,310,552 1,310,751 1,314,921 1,314,922 1,314,925 1,314,926 1,314,928 1,314,929 1,315,742 1,316,731 1,317,160 1,318,022 1,319,852 1,320,443 1,323,263 1,323,285 1,325,841 2: 1,296,367 1,326,599 1,296,600 1,296,601 1,298,552 1,298,553 1,298,554 1,313,235 1,316,808 1,321,643 1,321,644 5: R. 14, 729 1,292,453 1,297,046 1,299,811 1,303,426 1,306,213 1,308,709 1,311,131 1,311,150 1,317,097 1,317,220 1,321,972 1,321,973 6: 1,307,113 1,310,518 1,315,961 1,318,109 8: 1,291,266 1,305,902 13: 1,291,902 1,307,860 1,318,339 1,320,974 15: 1,303,315 16: 1,315,698 17: 1,298,287 1,301,920 1,306,529 18: 1,290,156 1,300,233 1,304,862 1,304,863 1,310,522 19: 1,293,514 1,295,155 1,298,832 1,301,184 1,319,648 20: 1,316,958 61: 1,311,362 9— 1: 1,303,046 2: 1,303,550 1,303,700 1,314,899 3: 1,295,681 1,295,893 1,301,523 1,305,354 1,311,350 1,321,541 1,322,957 1,326,575 4: 1,298,360 1,299,282 1,299,476 1,300,906 1,303,872 6: 1,295,117 1,298,042 1,307,144 6.5: 1,323,125 8: 1,295,008 1,318,650 1,320,604	9— 8.3: 1,296,664 1,303,860 9: 1,294,549 1,295,805 1,313,156 1,319,051 11: 1,295,843 1,306,275 1,323,732 1,324,634 1,326,866 13: 1,307,825 15: 1,292,680 17: 1,290,043 1,295,715 1,297,648 1,297,665 1,301,831 1,302,823 1,305,606 1,315,190 1,316,816 1,322,828 1,324,514 18: 1,292,593 1,319,852 1,293,665 1,299,000 1,302,362 1,304,919 1,307,752 1,318,879 1,320,190 1,320,540 1,321,267 1,322,403 1,290,927 19: 1,301,515 1,306,011 20: 1,291,448 1,291,648 1,291,649 1,291,650 1,292,587 1,295,667 1,296,967 1,297,270 1,303,144 1,303,389 1,308,561 1,313,936 1,314,185 1,314,299 21: 1,293,490 1,298,344 1,299,007 1,316,639 1,318,451 1,324,687 1,326,471 22: 1,291,902 1,292,145 1,292,294 1,295,183 1,295,626 1,297,276 1,297,705 1,303,750 1,304,316 1,304,353 1,304,897 1,304,984 1,305,643 1,306,645 1,310,717 1,310,962 1,311,446 1,312,272 1,313,404 1,313,789 1,315,895 1,316,542 1,319,351 1,319,352 1,319,353 1,321,746 1,322,003 1,323,734 23: 1,297,800 1,298,777 1,301,392 1,308,549 1,319,492 1,319,675 1,295,608 24: 1,295,608 25: 1,313,130 26: 1,293,298 1,324,020 65: 1,295,202 1,295,203 83: 1,322,902 10— 1: 1,312,345	10— 10: 1,325,669 11: 1,299,115 12: 1,297,429 15: 1,309,749 20: 1,294,988 1,294,989 1,294,990 1,294,991 1,294,992 1,294,993 24: 1,294,987 27: 1,308,629 28: 1,294,091 30: 1,296,087 32: 1,309,566 34: 1,321,473 43: 1,321,778 55: 1,303,413 58: 1,298,281 64: 1,303,694 72: 1,292,821 1,315,289 1,321,370 73: 1,321,853 76: 1,314,668 78: 1,319,708 81: 1,321,962 86: 1,311,449 1,314,036 87: 1,308,302 1,314,692 89: 1,290,427 1,294,428 1,295,798 1,315,427 1,317,245 95: 1,319,602 96: 1,309,141 1,318,115 99: 1,322,885 100: 1,296,546 1,307,104 1,313,568 1,316,619 101: 1,300,051 104: 1,323,584 107: 1,295,063 114: 1,306,907 1,322,625 1,326,047 116: 1,307,580 119: 1,320,756 120: 1,304,249 120.5: 1,305,336 1,306,021 1,306,171 1,307,141 121: 1,320,644 122: 1,292,025 123: 1,312,949 124: 1,310,620 1,324,442 126: 1,294,851 1,319,600 1,323,898 129: 1,299,168 1,299,241 1,307,831 130: 1,325,888 135: 1,315,100 136: 1,291,592 1,302,271 1,309,926 141: 1,293,432 1,296,627 1,309,232 1,317,624 142: 1,307,103 143: 1,290,356 144: 1,318,179 145: 1,304,574 1,308,902 147: 1,293,143 154: 1,292,781 1,296,854 1,304,906 1,308,152 1,316,717 1,316,718 1,325,584 155: 1,319,740 156: 1,314,682 162: 1,315,416 1,325,752 165: 1,305,328 166: 1,305,329 2: 1,323,319 4: 1,297,131 11— 1: 1,291,757 1,291,888 1,292,412
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## Classification of patents—Continued.

12—	1: 1,294,533 1,299,399 1,299,816 1,304,173 2: 1,290,651 1,291,756 1,295,129 1,305,217 1,305,218 1,310,463 1,319,278 1,321,148 4: 1,293,162 1,309,812 1,319,261 1,324,268 7: 1,323,714 9: 1,321,403 11.1: 1,303,435 14: 1,291,755 1,301,726 1,303,847 1,306,120 1,309,716 1,313,121 15: 1,312,676 1,313,935 1,318,499 16: 1,314,702 17: 1,292,979 1,293,059 1,293,763 1,297,605 1,301,032 1,307,284 1,307,285 1,310,491 1,325,085 20: 1,298,371 1,303,283 1,313,682 21: 1,291,880 1,315,171 29: 1,295,891 30: 1,307,820 31: 1,290,165 32: 1,290,619 33: 1,293,915 1,312,509 1,322,129 1,326,489 36: 1,304,078 38: 1,300,598 1,310,005 40: 1,296,859 42: 1,313,148 1,315,461 1,326,150 1,326,151 47: 1,293,134 1,293,196 1,325,634 48: 1,314,587 49: 1,315,218 50: 1,320,410 51: 1,297,426 1,298,780 1,300,642 1,313,917 1,313,918 54: 1,294,919 1,304,472 1,310,579 1,312,532 1,315,223 55: 1,301,718 1,312,533 1,322,591 57: 1,307,811 1,310,008 61: 1,309,407 63: 1,300,627 1,300,628 1,305,236 1,315,367 67: 1,309,567 1,309,583 1,314,792 1,318,340 67.2: 1,290,179 1,306,630 1,306,656 77: 1,303,931 78: 1,305,864 82: 1,296,570 83.5: 1,298,689 1,316,716 1,318,658 84: 1,303,926 87: 1,295,964 1,311,197 1,319,765	12—	91: 1,308,019 1,325,645 97: 1,312,470 103: 1,293,142 1,315,450 104: 1,302,510 107: 1,306,121 118: 1,325,608 123: 1,290,400 1,291,997 1,324,914 1,325,023 125: 1,295,963 1,295,965 1,314,187 126: 1,313,909 1,319,232 127: 1,294,443 1,295,135 1,314,385 1,319,266 128: 1,290,879 1,310,281 1,313,505 130: 1,326,100 131: 1,301,776 1,302,410 1,307,778 132: 1,318,651 133: 1,295,890 1,306,108 1,310,762 1,326,112 135: 1,290,141 1,296,996 1,312,543 136: 1,295,273 1,311,523 139: 1,295,332 141: 1,306,247 142: R. 14, 617 1,290,654 1,292,993 1,293,672 1,293,762 1,301,084 1,302,499 1,302,995 1,303,065 1,304,476 1,313,065 1,315,210 1,316,562 1,320,670 1,325,764 1,325,837 145: 1,314,239 146: R. 14, 611 1,296,518 1,301,113 1,313,887 1,313,916 1,322,955 147: 1,293,092 1,305,060 2: 1,291,955 1,294,699 1,309,646 5: 1,292,282 1,293,444 1,303,301 1,303,302 1,323,641 1,324,066 6: 1,311,742 7: 1,316,282 1,325,435 1,326,441 9: 1,308,651 1,320,827 10: 1,308,823 1,319,199 12: 1,291,763 1,304,804 1,310,304 1,311,180 1,318,215 1,322,927 13: 1,300,162 1,302,216 14: 1,308,967 16: 1,315,521 1,326,665 17: 1,291,128 1,299,982 1,312,291 1,320,379 1,326,416 18: 1,302,261 1,304,791 1,306,032 1,308,297 1,313,841	13—	18: 1,314,100 1,317,325 1,323,012 19: 1,292,918 1,299,946 1,303,160 1,311,907 1,322,020 21: 1,307,250 1,308,376 1,315,328 22: 1,312,986 23: 1,319,089 14— 30.5: 1,310,494 36: 1,302,302 1,311,254 58: 1,303,789 75: 1,306,725 15— 1: 1,321,738 2: 1,307,670 1,318,231 1,323,409 1,326,290 4: 1,292,733 1,306,307 1,303,907 1,310,457 1,311,796 1,321,394 1,324,178 8: R. 14, 594 1,291,440 1,294,090 1,294,459 1,298,933 1,305,497 1,307,025 1,307,874 1,308,785 1,314,813 1,315,656 1,316,174 1,317,130 1,324,350 12: 1,315,824 13: 1,294,569 1,297,233 1,298,037 1,298,788 1,304,094 1,304,413 1,307,215 1,310,007 1,310,910 1,313,185 1,319,702 1,320,260 14: 1,294,005 1,294,881 1,296,868 1,297,384 1,297,816 1,299,989 1,299,990 1,310,296 1,320,464 16: 1,307,060 1,308,462 1,311,055 1,322,342 17: 1,291,634 1,301,927 1,306,877 1,307,182 1,308,004 1,296,245 1,316,355 1,325,296 1,325,297 19: 1,294,739 1,296,861 1,299,796 1,313,206 20: 1,291,065 1,300,770 1,315,194 21: 1,306,308 1,322,925 1,295,693 23: 1,292,546 1,305,157 26: R. 14, 710 1,315,499 27: 1,313,184 1,319,493 29: 1,303,500 30: 1,307,837 32: 1,294,180 1,324,487 33: 1,292,887 36: 1,293,257 1,297,272 1,314,939	15—	37: 1,295,136 1,296,719 1,297,694 1,297,771 1,299,785 1,300,128 1,304,543 1,307,276 1,308,866 1,309,510 1,309,587 1,309,695 1,318,522 1,318,647 1,320,616 1,323,478 1,325,498 1,326,372 1,326,744 1,326,815 38: 1,295,899 1,297,944 1,300,012 1,300,884 1,309,495 1,315,854 1,320,092 1,322,641 39: 1,296,067 1,319,836 1,296,186 1,304,769 1,307,530 1,308,374 1,312,334 1,318,964 1,323,042 1,326,638 41: 1,297,090 1,303,365 1,305,543 1,310,525 1,315,849 1,320,887 1,321,704 42: 1,319,859 44: 1,303,470 45: 1,319,104 46: 1,292,288 1,293,071 1,294,705 1,303,531 1,310,670 47: 1,311,953 1,322,766 1,325,200 49: 1,297,675 1,305,545 1,318,068 50: 1,294,914 1,300,651 1,309,903 1,317,562 1,319,669 1,321,907 1,326,356 51: 1,297,567 1,298,787 1,302,498 1,310,290 1,314,441 1,322,166 52: 1,314,646 1,317,437 1,322,413 1,325,268 54: 1,296,245 1,311,657 1,320,311 56: 1,291,131 1,311,316 1,315,900 1,325,165 57: 1,325,636 58: 1,316,336 1,320,392 1,322,234 1,293,925 1,295,693 59: 1,290,464 1,323,125 1,293,759 1,295,516 1,300,349 1,301,609 1,304,736 1,305,278 1,305,456 1,305,948 1,308,491 1,309,302 1,309,724 1,313,576 1,315,161	15—	59: 1,317,840 1,322,115 1,325,017 1,325,903 1,326,145 60: 1,290,403 1,291,802 1,292,963 1,293,250 1,294,468 1,294,473 1,294,875 1,296,121 1,299,547 1,300,196 1,300,323 1,301,319 1,302,192 1,302,929 1,303,818 1,305,242 1,308,685 1,309,092 1,309,093 1,313,261 1,314,693 1,316,442 1,318,881 1,319,836 1,323,925 1,324,195 1,324,416 61: 1,304,447 62: 1,304,518 1,316,902 63: 1,306,336 64: 1,291,977 1,319,023 68: 1,314,116 71: 1,317,088 72: 1,295,791 1,299,191 1,305,070 1,318,256 1,323,912 1,326,764 1,326,745 16— 3: 1,315,060 4: 1,310,029 1,324,146 5: 1,291,873 1,301,461 1,309,579 1,317,196 1,319,427 1,325,109 1,325,221 6: 1,291,033 1,295,747 1,302,286 1,303,444 1,309,056 7: R. 14, 772 1,292,440 1,293,705 1,294,589 1,312,973 1,325,123 8: 1,290,560 1,293,414 1,300,481 1,302,890 1,308,473 9: 1,314,400 1,319,554 1,326,841 10: 1,304,700 1,312,135 1,315,376 11: 1,295,620 1,299,228 1,309,730 1,315,418 1,321,151 1,322,059 1,325,078 16: 1,290,719 1,296,734 18: R. 14, 623 1,292,144 1,292,222 1,295,415 1,295,725 1,307,112 1,311,597 1,326,608 1,321,277 19: 1,294,915 1,295,426 1,298,472 1,307,306 1,309,677 1,311,052 1,311,162 1,312,864 1,313,069	16—	19: 1,314,241 20: 1,309,670 1,310,165 22: 1,303,794 1,306,929 1,311,037 1,311,426 1,313,927 1,317,242 23: 1,300,044 1,309,382 1,304,793 25: 1,294,793 1,302,569 1,304,009 1,309,883 1,312,392 28: 1,292,978 30: 1,291,203 1,301,407 1,303,677 1,305,550 1,311,708 1,312,933 1,307,948 1,318,903 48: 1,306,684 49: 1,316,473 52: 1,298,507 1,312,893 54: 1,304,880 61: 1,304,175 62: 1,308,646 63: 1,305,955 1,311,598 1,319,011 64: 1,292,556 1,305,338 1,317,092 65: 1,294,462 1,315,266 70: 1,317,477 71: 1,312,323 73: 1,296,764 1,301,777 1,304,061 1,305,547 1,316,622 75: 1,310,287 76: 1,304,748 77: 1,299,416 78: 1,302,168 1,309,310 79: 1,290,133 82: 1,297,189 83: 1,300,912 87: R. 14, 674 1,291,605 1,309,056 1,324,363 88: 1,296,240 1,293,338 90: 1,307,877 91: 1,319,490 1,322,918 1,325,428 96: 1,294,903 97: 1,313,612 100: 1,309,130 1,314,516 1,301,176 1,302,423 1,311,291 1,312,171 1,319,339 1,325,781 1,326,382 104: 1,290,230 1,311,651 1,318,663 1,326,305 105: 1,302,178 1,313,726 106: 1,309,629 1,315,417 1,320,143 1,323,344 107: 1,311,243 1,314,732 1,321,277 1,326,344 108: 1,312,945 109: 1,294,044 1,298,547 1,299,658 1,304,454 111: 1,324,262 114: 1,305,356
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## Classification of patents—Continued.

16—	115: 1,318,573	17—	29: 1,326,780	18—	18: 1,312,364	18—	56: 1,310,440	20—	19: 1,316,677	20—	91: 1,293,208
116:	1,312,665	30:	1,299,084		1,314,256		1,310,441		1,326,611	92:	1,301,812
	1,315,966		1,310,294		1,315,731		1,311,134		1,295,712		1,303,646
	1,290,410		1,311,361		1,317,124		1,317,442		1,318,433		1,308,372
	1,294,934		1,311,779		1,317,848		1,319,161		1,297,854		1,322,203
	1,296,817		1,313,383		1,317,849		1,321,401		1,316,203		1,296,337
119:	1,302,687		1,313,579		1,317,850		1,324,253		1,319,368	21—	2: 1,313,646
	1,313,840		1,314,579		1,318,273		1,304,396		1,308,955	5:	1,292,771
122:	1,300,298		1,315,829		1,318,530		1,312,452		1,325,240		1,299,732
	1,314,794		1,316,626		1,321,961		1,318,520		1,299,312		1,300,034
140:	1,300,214		1,317,745		1,323,544		1,296,958		1,301,704		1,301,971
141:	1,299,546		1,323,071		1,323,573		1,306,679		1,305,018		1,306,115
	1,321,507		1,323,492				1,308,330		1,317,336		1,322,992
142:	1,299,183	31:	1,314,465	19:	R. 14,603		1,309,757		1,291,240	7:	1,293,090
143:	1,298,251	1:	1,298,659		R. 14,604		1,316,570		1,298,764		1,293,199
	1,301,511		1,299,665		1,306,001		1,303,833	19—	3: 1,303,833		1,294,708
	1,303,118		1,306,727		1,314,627		1,314,586		1,303,832		1,299,381
	1,304,334		1,310,588		1,318,700		1,322,695		1,305,838		1,300,021
	1,310,313		1,312,657	26:	1,294,545		1,312,953		1,290,876		1,300,185
	1,314,488	2:	R. 14,603		1,313,558		1,317,120		1,292,717		1,301,107
146:	1,299,534		1,290,505		1,317,120		1,312,189		1,299,349		1,305,162
151:	1,301,139		1,291,811		1,292,182		1,316,992		1,316,376		1,307,044
	1,305,276		1,292,182		1,299,917		1,311,856		1,323,885		1,309,144
	1,311,477		1,299,917		1,302,053		1,296,092		1,290,747		1,309,251
	1,312,563		1,302,053		1,308,132		1,310,442		1,297,607		1,309,760
154:	1,304,394		1,309,128		1,320,128		1,324,850		1,300,840		1,309,856
156:	1,303,684		1,320,289		1,320,289		1,325,898		1,306,711		1,310,425
	1,303,775		1,323,213		1,323,213		1,296,291		1,308,791		1,310,907
	1,305,021		1,324,170		1,326,294		1,317,904		1,291,644		1,311,981
	1,309,205		1,326,375		1,326,375		1,312,424		1,299,185		1,312,359
158:	1,298,255		1,296,107		1,312,627		1,312,627		1,310,545		1,290,400
	1,297,615		1,306,830		1,312,627		1,317,661		1,312,798		1,291,496
159:	1,298,713		1,323,116		1,320,399		1,319,486		1,297,201		1,293,457
163:	1,291,791	3.5:	1,291,400		1,321,229		1,323,706		1,321,576		1,294,286
	1,312,667		1,302,237		1,302,015		1,320,015		1,314,724		1,295,506
	1,313,411		1,306,722		1,306,643		1,297,226		1,293,798		1,298,283
	1,318,824		1,315,930		1,318,882		1,299,045		1,299,105		1,298,831
	1,324,505		1,321,789		1,301,391		1,300,391		1,300,012		1,299,071
168:	1,304,711		1,321,829		1,301,148		1,303,256		1,303,538		1,299,512
169:	1,316,623		1,321,830		1,307,435		1,312,029		1,307,415		1,300,003
173:	1,292,262	5.3:	1,290,105		1,312,438		1,316,274		1,309,818		1,303,110
	1,297,861		1,307,812		1,316,274		1,316,274		1,310,827		1,303,553
17—	1: 1,309,335		1,308,475		1,323,197		1,316,276		1,311,293		1,303,608
	6: 1,292,645		1,323,197		1,326,330		1,316,276		1,319,202		1,316,065
	1,295,208		1,326,330		1,319,088		1,319,088		1,321,884		1,306,385
	1,316,752		1,326,330		1,319,644		1,319,644		1,323,910		1,308,142
	1,291,738		1,326,438		1,296,215		1,319,770		1,297,367		1,309,197
	1,310,531		1,326,438		1,305,474		1,320,816		1,299,187		1,309,136
	1,315,023		1,326,438		1,308,111		1,325,670		1,303,664		1,309,590
9:	1,323,915		1,326,438		1,311,613		1,326,674		1,304,610		1,310,221
	1,326,438		1,326,438		1,318,883		1,326,675		1,305,540		1,310,801
	1,294,140		1,326,438		1,320,812		1,295,467		1,297,794		1,311,998
	1,294,609		1,326,438		1,311,252		1,320,202		1,313,164		1,313,103
	1,306,841		1,326,438		1,310,509		1,322,467		1,306,528		1,314,469
	1,309,923		1,326,438		1,307,788		1,323,322		1,307,117		1,315,003
	1,310,662		1,326,438		1,305,445		1,323,322		1,311,127		1,315,454
	1,316,026		1,326,438		1,317,157		1,323,322		1,313,799		1,319,651
	1,316,850		1,326,438		1,320,718		1,323,322		1,319,690		1,321,618
	1,320,990		1,326,438		1,293,535		1,323,322		1,298,190		1,322,432
	1,322,740		1,326,438		1,294,000		1,323,322		1,311,775		1,323,934
	1,324,581		1,326,438		1,302,484		1,323,322		1,316,224		1,323,990
11:	1,293,211		1,326,438		1,314,984		1,323,322		1,316,224		1,326,343
	1,301,450		1,326,438		1,322,464		1,323,322		1,304,521		1,294,608
	1,322,607		1,326,438		1,320,778		1,323,322		1,311,531		1,308,105
	1,322,821		1,326,438		1,300,250		1,323,322		1,316,895		1,315,571
	1,323,635		1,326,438		1,310,311		1,323,322		1,322,690		1,315,572
	1,323,636		1,326,438		1,311,571		1,323,322		1,298,183		1,318,298
	1,323,637		1,326,438		1,321,897		1,323,322		1,321,100		1,318,602
	1,323,638		1,326,438		1,291,227		1,323,322		1,297,379		1,293,512
	1,323,639		1,326,438		1,293,159		1,323,322		1,312,065		1,297,006
	1,325,893		1,326,438		1,295,087		1,323,322		1,315,142		1,301,514
	1,325,956		1,326,438		1,297,644		1,323,322		1,315,142		1,301,593
12:	1,294,455		1,326,438		1,301,431		1,323,322		1,315,142		1,302,444
	1,302,054		1,326,438		1,311,012		1,323,322		1,315,142		1,303,930
	1,302,194		1,326,438		1,311,715		1,323,322		1,315,142		1,310,651
	1,291,173		1,326,438		1,315,205		1,323,322		1,315,142		1,312,288
	1,294,562		1,326,438		1,316,105		1,323,322		1,315,142		1,311,940
	1,295,790		1,326,438		1,317,668		1,323,322		1,315,142		1,299,882
	1,309,396		1,326,438		1,317,668		1,323,322		1,315,142		1,290,909
	1,315,751		1,326,438		1,319,742		1,323,322		1,315,142		1,291,517
18:	1,297,373		1,326,438		1,321,517		1,323,322		1,315,142		1,291,574
20:	1,294,203		1,326,438		1,321,517		1,323,322		1,315,142		1,293,640
	1,296,108		1,326,438		1,321,517		1,323,322		1,315,142		1,296,562
	1,314,962		1,326,438		1,321,517		1,323,322		1,315,142		1,298,028
	1,324,490		1,326,438		1,321,517		1,323,322		1,315,142		1,301,023
22:	1,316,503		1,326,438		1,321,517		1,323,322		1,315,142		1,300,810
24:	1,290,402		1,326,438		1,321,517		1,323,322		1,315,142		1,301,132
	1,290,425		1,326,438		1,321,517		1,323,322		1,315,142		1,301,338
	1,290,528		1,326,438		1,321,517		1,323,322		1,315,142		1,301,962
	1,293,774		1,326,438		1,321,517		1,323,322		1,315,142		1,302,406
	1,309,417		1,326,438		1,321,517		1,323,322		1,315,142		1,304,792
	1,310,197		1,326,438		1,321,517		1,323,322		1,315,142		1,305,670
	1,310,261		1,326,438		1,321,517		1,323,322		1,315,142		
	1,310,262		1,326,438		1,321,517		1,323,322		1,315,142		
	1,311,479		1,326,438		1,321,517		1,323,322		1,315,142		
	1,311,480		1,326,438		1,321,517		1,323,322		1,315,142		
	1,313,753		1,326,438		1,321,517		1,323,322		1,315,142		
	1,314,560		1,326,438		1,321,517		1,323,322		1,315,142		
	1,314,598		1,326,438		1,321,517		1,323,322		1,315,142		
	1,323,054		1,326,438		1,321,517		1,323,322		1,315,142		
	1,324,214		1,326,438		1,321,517		1,323,322		1,315,142		
	1,324,801		1,326,438		1,321,517		1,323,322		1,315,142		



21—	20: 1,305,995 1,307,154 1,292,204 1,294,665 1,301,299 1,301,300 1,303,390 1,305,426 1,305,920 1,306,117 1,307,109 1,308,189 1,310,334 1,311,644 1,312,279	21—	43: 1,321,703 1,322,100 1,323,693 1,324,616 44: 1,323,874 45: 1,302,228 46: 1,296,033 1,299,333 1,310,252 48: 1,291,159 1,296,431 1,300,095 1,300,813 1,306,428 54: 1,302,145 1,312,343 55: 1,290,522 1,294,606 1,294,904 1,295,904 1,297,730 1,298,160 1,298,300 1,310,973 57: 1,308,307 61: 1,300,187 1,295,350 1,296,007 1,296,316 1,296,849 1,297,673 1,298,279 1,298,425 1,298,792 1,298,797 1,298,798 1,299,359 1,299,360 1,299,400 1,301,505 1,301,506 1,302,049 1,302,467 1,304,112 1,304,510 1,306,503 1,308,488 1,308,906 1,309,804 1,310,069 1,310,502 1,311,341 1,312,859 1,313,405 1,313,976 1,314,380 1,314,381 1,316,997 1,317,063 1,317,090 1,317,393 1,320,170 1,319,683 1,320,551 1,321,967 1,322,039 1,324,513 1,324,970 1,325,838	21—	68: 1,292,689 1,300,186 1,312,990 69: 1,290,452 1,291,676 1,292,727 1,292,601 1,293,263 1,293,870 1,294,825 1,295,631 1,296,151 1,296,904 1,297,243 1,297,275 1,297,973 1,298,017 1,298,087 1,298,399 1,299,301 1,299,464 1,301,716 1,303,501 1,304,130 1,304,944 1,305,535 1,305,820 1,307,005 1,307,611 1,308,494 1,309,095 1,310,189 1,311,119 1,311,468 1,311,537 1,311,979 1,312,890 1,313,489 1,313,913 1,313,988 1,314,092 1,315,050 1,315,280 1,315,291 1,316,333 1,316,382 1,316,605 1,317,198 1,317,230 1,317,246 1,319,591 1,320,494 1,320,524 1,320,999 1,321,000 1,321,001 1,321,002 1,321,075 1,322,693 1,323,776 1,324,293 1,325,120 74: 1,293,679 1,296,207 1,307,841 1,311,429 75: 1,295,153 1,323,224 76: 1,291,580 1,295,781 1,297,592 1,305,366 1,308,525 1,311,058 1,317,867 1,318,583 1,321,638 1,321,711 1,310,264 1,311,717 1,311,870 1,312,422 1,313,076 1,313,186 1,318,528 1,319,958 1,322,165 1,322,940 1,323,439 1,323,537 63: 1,316,493 65: 1,291,539 1,293,058 1,294,619 1,294,707 1,297,164 1,298,185 1,304,542 1,304,677 1,305,106 1,308,934 1,310,028	21—	94: 1,298,729 1,299,444 1,303,388 96: 1,291,229 1,293,581 1,302,426 1,304,331 1,319,902 1,307,275 105: 1,290,912 1,293,809 1,293,810 1,297,325 1,297,827 1,299,131 1,301,067 1,301,804 1,303,949 1,304,970 1,307,502 1,308,130 1,309,850 1,313,167 1,314,272 1,316,135 1,317,417 1,318,051 1,319,086 1,319,653 1,326,600 1,307,252 1,309,447 1,301,616 1,303,699 1,307,000 1,308,537 1,310,498 1,310,499 1,319,313 1,319,477 1,319,514 1,307,956 1,308,993 1,318,869 1,323,177 1,325,790 137: R. 14, 639 1,291,813 1,293,269 1,293,275 1,294,244 1,294,488 1,294,859 1,294,944 1,297,154 1,297,628 1,298,698 1,298,699 1,299,973 1,301,447 1,303,104 1,303,591 1,306,911 1,307,781 1,308,039 1,308,476 1,309,368 1,314,498 1,316,735 1,291,509 1,300,055 1,295,218 1,302,989 1,303,213 1,312,733 1,300,807 1,304,608 1,308,636 1,290,588 1,291,533 1,292,797 1,294,241 1,294,642 1,295,102 1,295,697 1,297,764 1,297,805 1,298,739 1,299,986 1,301,115 1,301,308 1,302,089 1,302,953 1,304,766 1,305,515 1,305,919 1,306,626 1,307,491 1,307,627 1,309,133 1,309,352 1,311,582	21—	148: 1,312,542 1,313,083 1,315,691 1,316,834 1,317,520 1,319,345 1,319,902 1,322,412 149: 1,326,679 150: 1,290,586 1,292,854 1,293,006 1,294,200 1,296,512 1,296,572 1,296,579 1,297,104 1,297,291 1,297,844 1,298,597 1,300,029 1,300,282 1,300,455 1,300,814 1,304,357 1,304,428 1,304,280 1,305,193 1,306,178 1,307,092 1,307,622 1,308,308 1,309,578 1,313,964 1,314,077 1,314,621 1,314,649 1,314,722 1,315,299 1,317,650 1,317,653 1,317,655 1,317,896 1,318,008 1,318,157 1,318,592 1,319,120 1,319,207 1,319,221 1,320,331 1,323,704 1,325,196 1,326,331 1,326,702 1,326,703 151: 1,298,204 1,304,817 1,316,951 1,326,500 152: 1,317,331 154: 1,293,118 161: 1,311,972 171: 1,299,288 173: 1,309,939 182: 1,290,939 1,290,958 1,2
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## Classification of patents—Continued.

22— 4: 1,306,096 1,313,774 5: 1,313,632 9: 1,298,176 1,314,954 10: 1,304,559 1,305,279 1,305,667 1,311,425 1,319,863 12: 1,305,675 13: 1,301,578 1,312,955 17: 1,299,967 18: 1,302,816 19: 1,304,060 20: 1,323,515 25: 1,309,126 26: 1,291,996 27: 1,318,849 32: 1,317,710 33: 1,309,336 1,316,259 1,316,261 1,316,666 36: 1,309,833 1,309,836 1,321,283 41: 1,299,240 1,302,612 44: 1,299,412 45: 1,304,922 1,306,425 1,315,180 1,316,502 1,318,101 1,319,511 1,323,677 48: 1,313,882 1,316,166 1,325,750 57: 1,301,788 62: 1,316,471 65: 1,300,123 1,302,448 1,302,838 1,304,118 1,307,823 1,309,823 1,310,865 1,314,512 1,320,910 1,323,253 1,324,660 1,325,039 1,304,964 66: 1,308,926 68: 1,309,534 1,313,602 69: 1,290,250 1,299,738 1,302,450 1,320,228 1,320,824 1,321,457 1,322,501 1,322,502 70: 1,290,201 1,292,484 1,305,430 1,318,558 1,318,877 71: 1,312,362 73: 1,324,326 76: 1,319,672 1,319,673 1,319,674 1,321,658 78: 1,300,739 79: 1,294,742 1,302,114 1,306,376 1,312,164 1,313,895 80: 1,320,951 81: 1,321,583 82: 1,323,137 85: 1,290,614 1,298,034 1,303,548 1,321,300 1,301,172 86: 1,323,592 90: 1,300,723 1,319,869 1,321,812 93: 1,304,142 94: 1,318,379 95: 1,323,255 100: 1,326,336 111: 1,290,071 1,301,850	22— 111: 1,321,803 1,322,022 112: 1,491,108 1,295,704 116: 1,312,401 1,315,805 122: 1,314,814 123: 1,294,558 1,299,981 1,304,538 1,321,122 1,321,478 126: 1,299,456 1,301,895 127: 1,295,703 129: 1,314,874 130: 1,291,390 133: 1,298,373 134: 1,308,962 1,324,021 136: 1,296,588 1,296,598 1,321,306 139: 1,290,627 1,310,172 141: 1,299,148 146: 1,302,277 1,313,259 151: 1,296,596 152: 1,296,321 1,296,590 153: 1,306,761 1,318,380 154: 1,318,404 155: 1,296,594 1,308,156 157: 1,303,430 1,323,938 158: 1,291,221 1,296,945 173: 1,313,983 177: 1,319,779 180: 1,309,513 183: 1,317,333 184: 1,304,959 1,325,497 187: 1,316,973 188: 1,301,965 1,308,524 1,324,208 190: 1,293,049 191: 1,291,120 1,303,097 192: 1,299,522 1,303,785 1,325,725 193: 1,307,136 1,308,861 1,315,293 1,320,770 194: 1,321,008 1,304,037 196: 1,291,588 1,310,768 1,313,907 1,325,004 197: 1,291,697 1,295,702 1,300,103 1,309,834 1,309,835 200: 1,296,589 1,299,769 201: 1,316,635 1,320,584 202: 1,299,987 1,311,684 203: 1,290,338 1,290,529 1,296,315 1,302,584 1,302,958 1,303,829 1,304,551 1,311,109 204: 1,309,182 206: 1,315,804 209: 1,296,595 1,296,597 1,298,035 1,298,036 1,308,103 1,320,744 1,323,583 212: 1,298,825 1,299,918 1,319,500 1,323,252 213: 1,295,277 1,296,200 1,296,751 1,299,655 1,325,723 216: 1,294,209 1,310,072	22— 216: 1,313,593 1,315,944 218: 1,323,628 23— 1: 1,291,306 1,312,401 1,292,098 1,292,948 1,292,814 1,293,703 1,294,525 1,294,546 1,294,827 1,295,958 1,297,464 1,301,325 1,301,598 1,303,348 1,304,707 1,304,745 1,306,485 1,308,576 1,308,577 1,309,206 1,309,622 1,310,078 1,311,395 1,312,118 1,312,741 1,312,742 1,313,192 1,313,379 1,314,280 1,315,183 1,315,189 1,315,250 1,315,534 1,315,834 1,316,569 1,316,950 1,317,688 1,317,755 1,318,936 1,320,080 1,321,210 1,321,376 1,322,291 1,323,847 1,324,255 1,325,711 1,325,712 3: 1,293,423 1,300,875 1,299,565 1,302,224 1,303,421 1,303,514 1,303,749 1,303,980 1,304,037 1,305,025 1,307,813 1,308,356 1,308,788 1,309,681 1,312,340 1,313,626 1,315,268 1,315,940 1,316,923 1,320,323 1,320,584 1,321,062 1,321,064 1,321,211 1,324,202 1,326,814 5: 1,292,743 1,292,744 1,306,707 1,306,708 1,306,709 1,316,191 10: 1,292,016 1,295,635 1,296,992 1,304,932 1,305,058 1,310,943 1,311,175 1,313,370 1,314,634 1,314,856 1,315,354 1,317,625 1,318,015 1,319,515 1,320,192 1,323,075 1,323,173 1,324,761	23— 10: 1,325,145 1,326,634 11: 1,296,196 1,308,243 1,312,782 1,312,783 1,319,586 12: 1,316,755 13: 1,291,498 1,291,867 1,291,979 1,292,341 1,292,341 1,292,715 1,292,937 1,295,559 1,292,580 1,293,008 1,293,272 1,293,461 1,294,788 1,295,049 1,296,557 1,297,246 1,297,371 1,298,363 1,298,932 1,299,560 1,299,581 1,300,110 1,300,205 1,300,417 1,300,418 1,300,947 1,301,394 1,301,766 1,302,186 1,302,852 1,303,167 1,303,314 1,303,911 1,304,004 1,304,206 1,304,567 1,305,414 1,305,618 1,305,641 1,305,642 1,307,152 1,307,153 1,307,362 1,307,831 1,307,882 1,307,883 1,308,080 1,308,429 1,308,885 1,308,911 1,309,650 1,309,903 1,310,151 1,310,382 1,310,383 1,310,384 1,310,478 1,310,720 1,311,232 1,312,552 1,312,743 1,312,834 1,312,842 1,314,231 1,314,236 1,314,237 1,314,571 1,314,709 1,314,710 1,314,715 1,315,045 1,315,219 1,315,496 1,315,678 1,315,811 1,315,836 1,316,107 1,316,133 1,316,909 1,318,258 1,318,336 1,318,891 1,318,929 1,319,183 1,319,843 1,321,013 1,321,281 1,321,424 1,321,459 1,321,892 1,322,185 1,322,195 1,322,485 1,323,690 1,323,735 1,324,761 1,323,878	23— 13: 1,324,030 1,324,119 1,324,300 1,324,318 1,324,328 1,325,043 1,325,129 1,325,203 1,325,932 1,326,123 1,326,332 1,326,384 21: 1,291,729 1,291,730 1,295,262 1,295,293 1,296,820 1,301,047 1,306,862 1,306,924 1,307,533 1,307,534 1,317,571 1,307,739 1,309,143 1,310,306 1,310,479 1,310,480 1,312,116 1,312,534 1,313,023 1,313,312 1,313,314 1,313,315 1,313,316 1,313,884 1,313,885 1,313,886 1,315,532 1,315,639 1,315,674 1,319,663 1,320,369 1,321,993 1,322,757 1,322,758 1,325,605 22: 1,290,194 1,292,929 1,294,526 1,295,601 1,296,035 1,296,141 1,296,457 1,296,458 1,296,459 1,296,460 1,296,461 1,296,462 1,296,463 1,296,464 1,296,465 1,296,466 1,297,073 1,297,638 1,297,639 1,297,640 1,298,154 1,298,334 1,302,937 1,303,682 1,303,916 1,304,067 1,304,931 1,307,137 1,307,920 1,308,184 1,308,899 1,309,744 1,310,413 1,310,770 1,311,043 1,311,481 1,312,053 1,312,201 1,317,524 1,317,954 1,318,763 1,319,128 1,319,128 1,320,193 1,320,211 1,320,212 1,321,282 1,321,632 1,322,043 1,322,900 1,323,228 1,323,464 1,323,764 1,324,737 1,324,920 1,324,923 1,325,713	23— 22: 1,325,881 1,325,882 1,326,412 1,326,414 23: 1,305,566 24: 1,290,124 1,290,870 1,290,971 1,291,025 1,291,300 1,292,019 1,292,266 1,292,950 1,293,012 1,293,172 1,293,610 1,294,230 1,294,662 1,295,339 1,296,602 1,296,847 1,297,524 1,297,685 1,297,792 1,297,952 1,298,356 1,298,476 1,298,477 1,298,478 1,298,481 1,298,594 1,298,929 1,299,171 1,299,214 1,299,215 1,299,927 1,300,227 1,300,228 1,300,451 1,301,360 1,301,388 1,301,662 1,301,663 1,301,785 1,301,796 1,301,909 1,302,011 1,302,273 1,302,583 1,303,168 1,303,624 1,303,639 1,303,779 1,304,108 1,304,989 1,305,301 1,305,462 1,305,623 1,306,221 1,306,439 1,306,472 1,306,512 1,306,710 1,306,963 1,306,964 1,307,570 1,308,071 1,308,173 1,308,398 1,308,413 1,308,414 1,308,757 1,308,760 1,308,763 1,308,777 1,308,796 1,308,802 1,309,320 1,309,559 1,309,577 1,310,770 1,310,783 1,311,043 1,311,481 1,312,053 1,312,201 1,317,524 1,317,954 1,318,763 1,319,128 1,319,128 1,320,193 1,320,211 1,320,212 1,321,282 1,321,632 1,322,043 1,322,900 1,323,228 1,323,464 1,323,764 1,324,737 1,324,920 1,324,923 1,314,924
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## Classification of patents—Continued.

23—	24: 1,314,927 1,315,127 1,315,229 1,315,393 1,315,525 1,315,541 1,315,542 1,315,544 1,315,545 1,315,547 1,315,585 1,315,619 1,316,019 1,316,047 1,316,804 1,316,823 1,317,250 1,317,251 1,317,359 1,317,648 1,317,868 1,318,212 1,318,461 1,318,631 1,318,632 1,318,633 1,319,748 1,320,076 1,320,077 1,320,454 1,321,133 1,321,271 1,321,307 1,321,959 1,321,994 1,322,052 1,322,054 1,322,898 1,322,983 1,323,589 1,324,143 1,324,715 1,324,716 1,324,717 1,325,168 1,325,214 1,326,040 1,326,045 1,326,248 1,326,515	24—	11: 1,316,069 1,316,070 1,321,878 1,321,893 1,323,607 1,324,308 13: 1,320,124 14: 5: 1,298,898 16: 1,309,506 17: 1,298,405 1,303,326 1,307,182 1,309,492 18: 1,291,776 1,294,321 1,294,886 1,299,681 1,300,502 1,305,753 1,311,064 1,311,482 1,311,764 1,312,015 1,320,765 1,322,168 1,324,124 19: 1,290,646 1,290,974 1,291,471 1,295,001 1,304,532 1,304,546 1,305,737 1,309,476 1,309,941 1,313,021 1,317,326 1,322,082 1,324,927 1,325,395 1,326,136 21: 1,314,970 23: R. 14, 762 1,301,102 1,314,338 1,322,410 24: 1,300,006 1,321,469 26: 1,306,565 30.5: 1,298,877 1,311,040 1,318,893 31: 1,300,345 1,306,507 1,318,576 32: 1,305,608 33: 1,300,437 1,300,632 1,307,925 1,317,993 37: 1,318,261 38: 1,303,027 40: 1,291,563 1,306,790 1,307,667 41: 1,295,440 42: 1,302,356 56: 1,290,368 1,301,792 1,302,225 1,312,071 1,318,242 57: 1,318,546 62: 1,293,113 1,299,801 1,310,422 66: 1,310,587 1,314,818 1,318,598 67: 1,291,382 1,301,310 1,303,279 1,320,885 1,326,725 68: 1,292,924 1,295,802 1,299,227 1,301,521 1,310,456 69: 1,291,314 1,299,660 1,316,632 71.2: 1,292,867 73: 1,291,293 1,295,738 1,299,837 1,301,553 1,304,122 1,306,027 1,309,635 1,309,976 1,310,536	24—	73: 1,310,979 1,313,368 1,301,988 1,307,240 1,321,680 1,317,570 1,318,081 1,320,886 1,322,458 1,323,359 1,323,780 74: 1,312,670 1,316,293 1,323,933 80: 1,291,432 1,293,327 1,305,072 1,309,844 81: 1,294,954 1,296,584 1,300,852 1,306,677 1,308,962 1,311,821 1,313,642 1,321,735 1,322,805 84: 1,312,718 85: 1,290,257 1,297,016 1,312,421 1,320,691 1,320,835 1,326,774 86: 1,315,856 87: 1,291,143 1,295,539 1,297,584 1,315,369 90: 1,290,919 1,292,914 1,292,588 1,303,228 1,306,369 1,306,451 1,306,922 1,308,079 1,315,390 1,316,012 1,316,886 1,318,235 1,322,963 1,323,442 90.5: 1,291,555 1,293,948 92: 1,301,069 94: 1,294,931 1,297,321 95: 1,292,913 1,324,085 1,324,086 1,324,087 1,324,088 1,324,089 97: 1,319,908 100.5: 1,317,722 101: 1,291,158 1,294,144 1,296,888 1,299,255 1,305,933 1,306,850 1,307,271 1,308,696 1,314,837 1,315,902 1,317,068 1,318,544 1,325,411 102: 1,295,109 1,297,366 1,314,590 1,317,267 1,319,253 1,323,699 103: 1,297,345 1,301,435 1,307,870 104: 1,298,016 1,325,093 105: 1,292,338 1,318,082 107: 1,315,752 1,322,219 108: 1,297,890 1,302,380 1,313,996 1,320,592 109: 1,321,596 110: 1,326,323 113: 1,302,875 1,305,275 114.5: 1,299,334 115: 1,294,518	24—	115: 1,295,669 1,300,794 1,301,988 1,307,240 1,321,680 116: 1,294,751 1,303,521 1,304,170 1,314,502 117: 1,314,805 1,320,848 120: 1,305,884 121: 1,322,956 123: 1,311,141 1,316,688 1,318,961 124: 1,298,052 1,312,455 125: 1,293,384 1,296,883 1,300,994 1,309,984 126: 1,297,187 1,315,969 128: 1,315,753 129: 1,312,635 132: 1,297,039 134: 1,298,614 1,314,072 1,320,600 1,320,691 135: 1,298,118 1,305,713 1,306,277 1,307,340 1,308,924 1,311,991 1,314,542 136: 1,293,559 1,318,591 137: 1,293,572 1,298,643 1,302,771 1,306,073 138: 1,324,423 1,326,497 139: 1,293,661 1,298,460 1,301,191 1,314,998 1,321,598 140: 1,292,975 1,293,847 1,297,986 1,303,868 1,306,840 1,314,284 1,325,409 141: 1,299,584 1,315,860 143: 1,309,271 1,318,745 1,326,143 150: 1,302,773 1,321,534 153: 1,291,225 1,300,572 155: 1,304,666 1,306,970 1,319,340 1,323,886 1,324,091 1,325,836 156: 1,310,929 1,315,273 157: 1,292,272 1,296,405 1,300,856 1,313,010 158: 1,321,621 159: 1,299,675 1,313,846 1,323,150 160: 1,304,406 161: 1,306,818 1,315,755 1,325,093 162: 1,302,713 163: 1,293,673 1,297,368 1,303,652 1,315,618 1,316,446 1,317,676 164: 1,326,158 168: 1,291,479 170: 1,291,052 1,306,403 1,311,120 1,313,210 1,324,080 171: 1,303,704	24—	171: 1,317,186 176: 1,299,285 1,299,841 178: 1,316,801 1,325,560 183: 1,324,599 188: 1,299,734 1,310,298 191: 1,290,506 194: 1,319,547 1,323,917 196: 1,292,298 1,306,091 197: 1,303,116 198: 1,316,611 1,325,948 200: 1,290,914 1,324,629 201: 1,302,470 205: 1,302,606 1,322,650 206: 1,324,053 208: 1,292,804 1,300,578 1,314,645 1,315,569 211: R. 14, 595 R. 14, 626 1,296,427 1,298,666 1,298,892 1,300,105 1,300,429 1,305,979 1,308,146 1,308,545 1,320,832 1,326,543 212: 1,296,157 213: 1,299,325 1,300,579 1,300,580 1,312,138 1,314,688 1,322,141 214: 1,320,496 1,322,140 1,323,950 1,293,126 215: 1,298,842 1,304,527 1,305,233 1,318,303 216: 1,297,634 1,302,263 1,302,628 1,309,586 1,310,119 1,326,637 217: 1,292,574 1,308,446 218: 1,296,001 1,300,337 1,300,338 1,300,571 1,300,572 1,300,573 1,300,574 1,300,576 1,300,577 1,300,581 1,300,582 1,300,583 1,300,584 1,300,585 1,300,586 1,300,587 1,300,588 1,303,401 1,304,489 1,305,520 1,306,524 1,313,331 1,313,458 1,315,415 1,319,639 1,321,974 219: 1,296,254 1,305,876 221: 1,292,424 1,303,770 1,305,082 1,322,772 222: 1,301,573 1,317,698 1,319,289 223: 1,291,112 1,302,918 224: 1,306,092 1,308,140 1,319,102 225: 1,311,812	24—	226: 1,307,279 227: 1,301,855 228: 1,295,623 1,308,519 1,308,611 1,311,499 1,311,813 1,320,486 229: 1,294,889 1,295,656 1,301,725 1,323,558 230: 1,326,055 231: 1,296,219 1,298,051 1,302,373 232: 1,299,864 1,312,966 1,313,851 1,314,832 1,320,828 233: 1,291,673 236: 1,292,763 1,298,217 1,298,976 1,300,078 1,306,226 1,314,808 1,316,869 237: 1,290,579 1,308,055 238: 1,322,118 240: 1,290,198 241: R. 14, 783 1,293,543 1,297,063 1,297,477 1,299,018 1,299,424 1,300,231 1,303,048 1,307,251 1,310,171 1,313,049 1,315,226 1,324,676 1,325,627 1,326,401 242: 1,293,126 1,294,696 1,296,218 1,299,821 1,310,548 1,311,989 1,314,637 243: 1,297,047 1,300,198 1,300,482 1,321,368 244: 1,809,125 1,310,947 245: 1,290,677 1,290,678 1,290,679 1,298,525 1,302,449 1,303,801 1,317,677 1,319,566 1,324,347 246: 1,305,418 1,324,720 247: 1,305,419 1,319,703 248: 1,295,428 1,295,439 1,300,328 1,311,069 1,317,962 249: 1,297,351 1,307,505 1,314,960 1,314,981 252: 1,322,050 254: 1,292,136 256: 1,294,951 1,318,911 257: 1,296,248 1,299,575 1,305,486 258: 1,304,554 259: 1,290,149 1,295,249 1,297,560 1,313,299 1,317,243 1,321,408 1,324,570 1,325,399 260: 1,294,522 1,296,674 1,298,061 1,301,855
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## Classification of patents—Continued.

24— 260: 1,307,129	25— 107: 1,302,964	25—131.5: 1,292,986	28— 4: 1,322,590	29— 44: 1,294,158	29— 88.2: 1,322,497
261: 1,296,841	108: 1,313,213	1,293,036	1,325,946	46: 1,316,075	1,322,584
1,298,542	118: 1,290,972	1,293,838	5: 1,295,821	48: 1,326,138	1,324,790
1,298,875	1,295,850	1,293,921	1,306,310	49: 1,304,051	89: 1,291,087
1,301,745	1,307,486	1,294,239	1,312,872	1,317,884	1,296,074
1,317,416	1,309,068	1,295,310	1,313,201	52: 1,318,116	1,296,621
1,322,655	1,314,725	1,295,312	1,313,594	54: 1,305,473	1,299,134
1,324,077	1,315,112	1,299,542	1,316,772	60: 1,297,983	1,301,275
263: 1,291,870	1,319,385	1,301,561	1,320,920	63: 1,305,672	1,301,790
1,292,712	1,319,528	1,301,770	1,325,876	66: 1,309,354	1,307,379
1,296,515	1,326,251	1,305,299	6: 1,294,803	69: 1,300,879	1,311,685
1,297,527	119: 1,298,027	1,306,172	1,298,475	1,302,791	1,312,617
1,300,929	1,314,057	1,306,700	1,319,982	1,305,108	1,321,310
264: 1,314,290	120: 1,315,733	1,310,515	7: 1,303,009	1,305,858	1,322,520
265: 1,293,944	121: 1,293,731	1,314,040	1,325,891	1,308,733	1,324,269
1,316,387	1,294,254	1,314,491	9: 1,326,311	1,312,121	1,325,157
266: 1,310,920	1,294,311	1,314,567	14: 1,301,665	1,324,666	1,326,147
268: 1,293,907	1,298,341	1,316,297	1,313,294	73: 1,290,497	90: 1,325,700
1,311,924	1,300,381	1,316,298	1,315,458	1,294,593	95: R. 14, 615
25— 1: 1,290,949	1,305,704	1,317,564	1,321,631	1,296,933	96: 1,290,040
1,293,076	1,307,993	1,323,823	1,323,638	74: 1,303,420	1,290,247
1,297,480	1,309,607	1,325,261	20: 1,301,133	75: 1,322,825	1,290,541
1,303,344	1,312,631	131.6: 1,292,203	1,307,701	76: 1,295,496	1,290,542
1,304,185	1,312,827	1,293,006	1,309,258	1,304,526	1,291,736
1,304,186	1,314,018	1,313,355	1,311,448	1,321,759	1,304,898
1,306,477	1,315,984	132: 1,290,848	1,319,520	1,322,873	1,319,287
1,310,953	1,317,093	1,320,882	1,325,528	78: 1,311,471	1,319,590
1,313,630	1,323,689	134: 1,303,760	21: 1,298,369	1,317,615	97: 1,300,204
1,315,916	1,325,050	1,305,447	1,298,730	79: 1,316,898	1,307,633
1,323,356	1,325,051	137.5: 1,298,941	1,304,143	80: 1,305,283	1,298,201
1,324,422	1,326,246	139: 1,295,650	1,308,536	1,323,899	1,306,039
1,326,854	124: 1,297,315	1,304,831	1,316,249	81: 1,313,850	1,315,640
2: 1,292,869	1,301,364	142: 1,291,748	1,320,921	1,317,049	99: 1,300,042
1,295,311	1,303,251	1,292,568	1,320,922	1,317,714	1,308,281
1,301,685	1,307,470	1,295,955	1,325,933	84: 1,296,969	1,311,445
1,320,707	1,313,013	1,306,161	1,295,639	1,302,280	1,316,731
7: 1,326,573	1,319,048	1,308,973	1,325,933	1,302,595	1,319,664
9: 1,309,986	127: 1,291,042	1,311,487	1,326,715	1,303,614	1,320,698
13: 1,293,398	1,291,781	1,321,388	31: 1,291,806	1,303,665	100: 1,299,125
13.1: 1,318,427	1,292,010	144: 1,290,060	33: 1,302,187	1,304,242	1,301,236
13.6: 1,304,945	1,313,893	145: 1,311,286	1,302,626	1,305,680	1,311,897
17: 1,296,639	1,320,199	1,314,486	29— 1: 1,291,488	1,306,337	1,313,336
21: 1,297,773	128: 1,307,283	1,318,806	1,291,521	1,308,687	1,315,134
1,303,966	1,312,157	150: 1,309,213	1,296,580	1,310,155	1,319,443
23: 1,302,191	1,324,881	153: 1,302,684	1,304,371	1,311,125	1,324,809
24: 1,326,756	129: 1,304,571	1,313,018	1,313,194	1,318,494	103: 1,295,976
30: 1,303,889	1,308,851	154: 1,296,152	1,319,623	1,320,096	1,301,379
32: 1,292,250	1,314,821	1,299,842	1,319,751	1,320,225	1,306,855
1,309,878	130: 1,292,093	1,324,744	1,322,787	1,320,373	1,306,856
36: 1,291,513	1,292,500	155: 1,313,931	1,316,509	1,320,378	1,311,686
1,297,208	1,294,891	1,316,521	1,296,842	1,325,177	1,319,714
40: 1,312,017	1,295,489	156: 1,298,472	1,309,163	1,325,325	1,322,615
41: 1,294,042	1,297,143	1,309,936	1,292,106	85: 1,291,582	105: 1,295,171
1,296,090	1,299,728	1,311,410	1,292,107	1,291,638	1,300,158
1,300,645	1,299,729	1,298,125	1,293,873	1,294,582	1,308,313
1,300,734	1,301,892	1,311,978	1,315,010	1,305,322	1,311,452
1,302,370	1,302,570	157: 1,294,613	1,309,938	1,310,154	1,313,034
1,306,620	1,308,565	158: 1,294,613	1,316,793	1,310,447	1,313,628
1,306,977	1,310,632	26— 2: 1,307,694	1,323,276	1,310,806	1,314,690
1,308,838	1,311,122	1,313,012	1,323,277	1,311,272	1,315,978
1,323,345	1,311,612	1,326,057	1,318,860	1,312,671	1,319,458
42: 1,291,394	1,316,462	4: 1,304,281	1,320,238	1,313,511	1,326,865
1,291,395	1,322,034	1,316,856	1,318,778	1,317,944	1,292,683
1,291,637	1,323,135	5: 1,295,645	1,300,002	1,318,137	1,293,916
1,306,283	131: 1,291,257	6: 1,294,516	1,306,880	1,324,704	1,294,193
1,315,575	1,293,344	7: 1,310,325	1,320,296	1,326,511	1,294,337
1,321,384	1,293,391	1,314,791	1,303,530	86.1: 1,302,287	1,294,732
1,325,452	1,294,872	1,317,275	1,295,279	86.2: 1,297,785	1,295,305
1,326,742	1,297,883	8: 1,298,006	1,306,514	1,319,829	1,295,430
43: 1,306,538	1,298,105	1,307,606	1,293,430	87.1: R. 14, 640	1,295,512
1,316,213	1,298,450	1,326,160	1,312,073	1,290,297	1,297,129
45: 1,293,662	1,299,200	1,326,309	1,324,562	1,290,399	1,297,142
1,304,053	1,299,739	9: 1,292,020	1,326,309	1,290,399	1,297,271
1,307,796	1,300,393	1,317,800	1,319,732	1,295,159	1,301,323
1,320,705	1,300,435	16: 1,308,024	1,294,779	1,296,784	1,301,517
55: 1,317,118	1,300,436	1,312,236	1,296,004	1,298,253	1,301,935
56: 1,306,309	1,301,959	1,313,468	1,299,788	1,299,496	1,302,563
1,321,160	1,305,687	1,316,961	1,302,395	1,301,733	1,302,564
63: 1,291,659	1,306,384	1,312,153	1,307,146	1,302,427	1,302,699
1,317,115	1,306,701	1,315,750	1,316,961	1,302,975	1,303,577
1,317,116	1,307,368	1,325,373	1,321,091	1,306,887	1,305,975
66: 1,300,996	1,307,793	1,308,269	27: 1,321,091	1,307,772	1,307,786
1,302,113	1,308,269	2: 1,310,820	28: 1,303,394	1,310,594	1,307,979
72: 1,304,137	1,309,084	3: 1,292,268	29: 1,301,303	1,311,805	1,308,251
1,322,960	1,311,036	4: 1,321,579	30: 1,297,242	1,314,264	1,309,244
75: 1,293,475	1,311,282	1,298,172	33: 1,295,992	1,314,355	1,309,386
77: 1,292,483	1,312,462	6: 1,326,873	1,309,011	1,315,383	1,309,388
1,295,764	1,313,005	7: 1,298,688	1,318,484	1,316,925	1,310,123
84: 1,301,954	1,313,393	1,303,087	1,320,338	1,316,865	1,312,517
1,310,359	1,314,099	1,306,457	1,322,366	1,317,320	1,314,051
1,312,367	1,315,027	8: 1,300,667	1,325,925	1,318,344	1,316,272
1,317,117	1,316,610	12: 1,323,488	1,297,112	1,320,269	1,316,273
1,317,119	1,319,606	13: 1,299,670	1,311,314	1,322,433	1,318,048
90: 1,295,760	1,319,925	18: 1,302,980	1,319,923	1,323,476	1,318,997
97: 1,320,471	1,320,791	1,315,712	1,320,609	1,324,052	1,321,125
99: 1,293,932	1,321,938	19: 1,318,957	1,293,913	1,324,099	1,322,106
1,308,753	1,322,784	35: 1,310,987	1,298,967	1,325,985	1,322,245
100: 1,301,048	1,323,020	2: 1,312,770	1,303,940	1,326,858	1,323,532
102: 1,301,095	1,323,557	4: 1,295,178	1,296,216	88.2: 1,296,222	1,323,555
103: 1,298,647	1,324,811	1,296,271	1,303,297	1,304,109	1,324,807
1,308,213	1,326,400	1,315,265	1,317,766	1,309,332	1,324,826
105: 1,315,507	131.5: 1,291,324	1,318,888	1,324,249	1,310,270	1,324,827
	1,291,325			1,318,087	1,325,073



## Classification of patents—Continued.

29— 148: 1,326,692	30— 12: 1,306,441	31— 98: 1,311,959	32— 88: 1,311,423	33— 52: 1,306,879	33— 137: 1,303,756
156: R. 14, 713	1,307,652	1,316,072	143: 1,311,349	1,307,063	1,321,416
1,303,896	1,308,730	99: 1,296,167	164: 1,311,548	1,307,647	138: 1,323,742
1,326,205	1,308,747	100: 1,297,346	173: 1,311,602	1,310,313	141: 1,281,485
1,326,224	1,308,801	101: 1,307,539	33— 1: 1,292,957	53: 1,307,646	129: 1,286,566
1,326,225	1,309,456	102: 1,316,582	1,293,567	1,311,963	143: 1,284,723
156.1: R. 14, 644	1,309,726	1,321,372	1,294,137	1,324,290	1,286,950
1,292,633	1,310,086	1,322,584	1,294,935	54: 1,314,472	1,288,090
1,295,147	1,310,333	1,322,589	1,296,195	55: 1,321,508	1,305,562
1,311,937	1,311,428	102: 1,308,082	1,299,058	57: 1,291,684	1,312,358
1,314,534	1,311,438	1,312,941	1,301,092	58: 1,316,945	1,315,446
1,315,451	1,312,390	1,322,311	1,311,641	64: 1,295,897	1,315,716
1,315,798	1,313,980	32— 1: 1,291,919	1,311,995	69: 1,298,489	1,321,567
1,316,463	1,317,748	1,301,817	1,318,607	1,304,789	1,322,029
1,320,088	1,317,822	1,319,737	1,320,352	70: 1,296,372	145: 1,296,381
1,322,056	1,318,456	1,320,583	1,323,349	1,308,050	147: 1,290,434
157: 1,293,863	1,319,348	1,322,386	2: 1,292,056	70: 1,296,372	1,299,306
1,320,652	1,321,549	1,322,387	1,321,253	1,308,971	1,300,210
159: 1,310,246	1,322,718	1,324,319	3: 1,297,500	74: 1,295,749	1,300,790
1,313,322	1,323,730	1,324,429	1,298,579	75: 1,292,164	1,303,259
164: 1,302,702	1,323,731	4: 1,293,627	1,317,681	75: 1,292,164	1,316,844
1,303,435	1,324,010	1,298,673	1,324,267	1,292,337	1,317,459
1,307,083	1,326,635	1,303,223	8: 1,302,997	1,296,704	1,318,934
1,323,341	13: 1,293,122	1,304,038	9: 1,294,117	1,298,640	1,320,227
167: 1,305,663	1,294,998	1,322,355	1,295,336	1,298,995	1,321,361
169: 1,316,049	1,299,104	1,322,424	1,316,613	1,299,978	148: 1,295,327
174: 1,298,657	1,303,463	1,324,521	10: 1,318,474	1,301,273	1,299,179
1,299,439	1,315,435	5: 1,290,568	1,319,248	1,305,047	1,300,221
1,303,236	1,317,041	1,313,031	1,321,375	1,306,165	1,300,837
1,324,055	1,319,588	6: 1,290,448	11: 1,314,085	1,308,765	1,305,701
180: 1,293,867	1,321,825	1,323,832	12: 1,313,496	76: 1,290,343	1,312,606
1,315,859	1,324,598	1,292,952	16: 1,307,232	1,294,768	1,317,708
1,323,623	1,326,299	1,295,244	19: 1,309,593	78: 1,311,867	1,317,879
181: 1,296,373	14: 1,290,629	1,296,009	20: 1,324,729	79: 1,297,788	1,318,835
1,306,690	1,295,101	1,296,429	21: 1,298,753	80: 1,313,520	1,324,870
1,312,937	1,298,501	1,296,846	23: 1,296,643	80: 1,307,844	149: 1,290,294
182: 1,302,548	1,300,521	1,296,928	1,320,321	1,310,596	1,303,471
183: 1,307,054	1,309,325	1,298,419	1,325,802	1,314,323	1,305,284
30— 1: 1,301,089	1,311,616	1,301,181	24: 1,302,646	1,322,592	1,318,239
1,301,712	1,315,312	1,302,152	25: 1,309,600	1,323,081	150: 1,304,017
1,302,835	1,319,971	9: 1,303,881	26: 1,304,501	82: 1,305,996	1,321,924
1,302,836	1,324,672	1,309,127	1,307,076	83: 1,305,417	152: 1,294,263
1,303,072	17: 1,303,277	1,310,237	27: 1,290,812	1,326,152	153: 1,309,131
1,307,361	20: 1,292,292	1,310,654	1,294,294	85: 1,308,699	154: 1,303,747
1,311,935	1,296,805	1,312,141	1,294,639	88: 1,304,713	158: 1,295,932
1,318,821	1,305,906	1,315,997	1,296,377	1,307,130	1,321,312
1,321,496	1,309,746	1,316,787	1,296,886	1,319,545	161: 1,299,627
1,326,166	1,309,951	1,317,832	1,298,585	89: 1,298,010	163: 1,300,841
3: 1,291,860	1,314,111	1,320,337	1,299,006	90: 1,324,681	1,309,700
1,301,128	22: 1,321,670	1,321,124	1,301,621	91: 1,320,320	1,310,388
1,307,892	1,322,981	1,321,126	1,307,233	1,325,606	1,314,888
1,309,224	23: 1,290,380	10: 1,293,998	1,307,958	1,310,166	1,318,697
1,309,503	1,324,677	1,297,352	1,316,642	93: 1,290,977	1,323,280
1,311,028	1,300,495	1,299,102	1,326,318	1,295,399	1,290,921
1,311,334	24: 1,291,176	1,299,103	1,326,696	1,308,451	1,291,771
1,314,226	25: 1,290,617	1,304,720	28: 1,301,950	1,315,679	1,299,256
1,317,134	1,292,150	1,306,816	30: 1,304,494	94: 1,294,816	1,306,906
1,319,597	1,293,546	1,307,446	32: 1,297,840	1,302,207	1,307,816
1,321,578	1,300,802	1,310,014	35: 1,295,901	1,319,942	1,308,179
1,323,019	1,306,516	1,314,223	41: 1,303,505	1,324,963	1,308,988
1,325,983	1,317,316	1,316,685	1,326,226	1,325,097	165: 1,291,711
1,326,707	1,324,968	1,317,980	42: 1,305,821	95: 1,296,720	1,310,431
5: 1,294,031	1,326,596	1,318,351	1,309,930	1,298,866	1,318,726
1,300,119	52.1: 1,316,283	1,321,129	1,312,006	98: 1,294,289	1,323,707
1,324,565	31— 13: 1,295,238	1,321,130	1,316,584	1,320,590	1,323,740
9: 1,307,717	1,295,927	1,323,585	44: 1,301,234	1,310,547	1,300,692
1,315,503	1,321,748	1,325,426	45: 1,314,916	1,313,432	1,315,318
1,318,346	1,326,086	1,325,447	46: 1,294,767	1,324,624	1,317,747
1,322,775	14: 1,298,503	1,326,089	1,294,907	101: 1,295,180	1,291,771
10: 1,298,944	1,312,428	11: 1,292,632	1,298,075	102: 1,322,086	1,299,256
1,318,515	1,314,829	12: 1,293,950	1,296,640	103: 1,292,654	1,307,816
1,319,532	1,318,526	1,297,199	1,296,641	104: 1,295,041	1,308,988
11: R. 14, 614	1,325,852	1,297,561	1,296,642	1,315,333	166: 1,291,711
1,299,100	21: 1,305,410	1,299,067	1,308,474	105: 1,320,689	1,318,697
1,310,904	22: 1,309,525	1,299,364	1,311,994	107: 1,308,654	1,323,280
12: R. 14, 748	25: 1,306,128	1,302,499	1,313,934	108: 1,313,168	1,291,771
1,290,228	65: 1,302,983	1,314,224	1,314,428	114: 1,300,427	1,299,256
1,290,641	1,303,131	1,315,085	1,314,429	116: 1,324,411	1,306,906
1,290,963	1,312,547	1,317,255	1,315,065	117: 1,292,864	1,307,816
1,292,449	1,320,293	1,320,133	1,317,670	1,301,996	1,308,179
1,293,319	1,322,042	1,323,743	47: 1,294,453	1,303,846	1,308,988
1,294,149	1,325,869	1,324,331	1,306,173	120: 1,293,079	1,310,431
1,295,002	73: 1,296,166	1,324,476	1,307,441	1,295,841	1,318,726
1,295,972	1,301,992	13: 1,294,423	1,316,482	1,306,722	1,323,707
1,296,080	1,307,929	1,299,137	1,318,424	1,308,815	1,323,740
1,297,413	77: 1,308,047	1,314,125	1,326,464	121: 1,291,476	1,300,692
1,297,762	1,317,891	19: 1,292,702	1,300,353	122: 1,314,463	1,315,318
1,298,456	1,316,767	1,292,885	1,300,354	126: 1,306,453	1,317,747
1,298,772	78: 1,300,899	1,304,721	1,303,440	129: 1,298,250	1,322,302
1,298,802	80: 1,302,459	1,304,722	1,304,272	1,305,740	1,291,771
1,299,095	84: 1,320,513	1,304,723	1,306,409	1,323,402	1,299,256
1,299,096	85: 1,300,607	1,304,881	1,306,412	131: 1,293,987	1,306,906
1,299,097	87: 1,323,015	1,306,696	1,306,413	132: 1,308,295	1,307,816
1,299,098	96: 1,298,694	1,307,382	1,306,611	133: 1,298,162	1,308,988
1,299,099	1,325,179	1,311,456	1,308,134	1,303,971	1,310,431
1,299,382	98: 1,300,857	1,322,994	1,316,391	1,323,862	1,318,697
1,299,570	1,304,280	1,323,141	1,316,401	134: 1,295,015	1,323,697
1,301,437	1,306,634	20: 1,292,133	49: 1,292,086	1,295,423	1,291,771
1,303,539	1,308,051	1,306,697	50: 1,307,912	1,304,603	1,318,697
1,303,973	1,308,052	1,321,451	51: 1,313,549	135: 1,315,526	1,323,697
1,304,734	1,308,053	32: 1,312,120	52: 1,292,211	1,317,030	1,318,697
1,305,332	1,309,457	34: 1,290,501	1,293,551	137: 1,290,350	1,298,197

33— 178: R. 14, 743 1, 325, 631 179: 1, 325, 943 180: 1, 309, 429 1, 324, 388 184: 1, 316, 299 184.5: 1, 313, 082 185: 1, 300, 371 1, 307, 792 1, 316, 494 1, 317, 126 189: 1, 294, 643 1, 300, 122 1, 302, 645 1, 306, 013 1, 313, 335 1, 314, 184 190: 1, 313, 943 1, 317, 702 1, 324, 877 1, 324, 878 1, 325, 646 191: 1, 295, 785 1, 302, 131 1, 309, 654 192: 1, 299, 307 1, 307, 188 197: 1, 317, 799 1, 326, 583 199: 1, 294, 004 1, 297, 194 1, 303, 198 1, 307, 347 1, 307, 451 202: 1, 299, 297 1, 317, 099 1, 317, 873 204: 1, 306, 552 1, 308, 692 1, 319, 599 206: 1, 291, 230 1, 294, 710 1, 299, 633 1, 302, 580 207: 1, 292, 969 1, 323, 018 209: 1, 305, 935 211: 1, 305, 496 1, 309, 752 213: 1, 298, 024 1, 298, 844 1, 305, 636 1, 323, 148 214: 1, 292, 595 1, 299, 940 215: 1, 290, 685 1, 290, 793 1, 291, 299 1, 294, 856 1, 295, 352 1, 297, 504 1, 297, 921 1, 298, 484 1, 300, 513 1, 300, 602 1, 300, 818 1, 301, 925 1, 306, 882 1, 308, 795 1, 310, 444 1, 312, 303 1, 312, 527 1, 313, 263 1, 314, 258 1, 317, 052 1, 319, 249 222: 1, 297, 612 1, 317, 086 223: 1, 307, 637 225: 1, 307, 935 262: 1, 308, 247 34— 1: 1, 295, 260 1, 299, 266 1, 306, 094 3: 1, 324, 072 1, 325, 271 4: 1, 323, 185 5: 1, 298, 130 1, 298, 955 1, 299, 245 1, 299, 254 1, 301, 112 1, 302, 165 1, 310, 184 1, 313, 020 1, 316, 643 1, 319, 764 1, 323, 484 1, 323, 673 1, 326, 525 1, 293, 780 1, 294, 805 1, 297, 409	34— 6: 1, 299, 492 1, 303, 209 1, 311, 667 1, 314, 994 1, 318, 133 7: 1, 321, 332 1, 302, 124 1, 318, 385 1, 321, 628 8: 1, 303, 982 11: 1, 305, 600 1, 308, 208 1, 311, 890 12: 1, 292, 128 1, 294, 958 1, 297, 722 1, 297, 926 1, 298, 790 1, 301, 532 1, 301, 594 1, 301, 750 1, 307, 075 1, 307, 270 1, 307, 754 1, 308, 837 1, 310, 824 1, 310, 858 1, 311, 250 1, 312, 348 1, 318, 187 1, 322, 279 1, 322, 280 1, 322, 428 1, 324, 758 1, 326, 161 13: 1, 295, 939 1, 296, 845 1, 323, 416 15: 1, 319, 391 1, 320, 721 1, 324, 527 16: 1, 318, 794 17: 1, 308, 036 1, 310, 379 1, 310, 800 1, 319, 195 1, 323, 552 1, 324, 535 18: 1, 301, 324 1, 302, 682 1, 308, 380 1, 321, 365 19: 1, 297, 727 1, 303, 549 1, 304, 645 1, 307, 785 1, 310, 176 1, 315, 517 20: 1, 325, 044 1, 329, 955 1, 300, 540 21: 1, 301, 286 24: 1, 290, 300 1, 293, 186 1, 293, 830 1, 294, 066 1, 298, 508 1, 299, 791 1, 300, 718 1, 305, 599 1, 312, 759 1, 325, 415 1, 325, 972 26: 1, 291, 826 1, 293, 237 1, 295, 265 1, 298, 359 1, 301, 145 1, 303, 572 1, 303, 945 1, 304, 589 1, 306, 122 1, 308, 253 1, 310, 486 1, 312, 271 1, 318, 780 1, 319, 422 1, 320, 665 1, 322, 256 1, 322, 394 1, 323, 136 1, 325, 290 28: 1, 322, 209 1, 324, 073 29: 1, 308, 292 30: 1, 290, 421 34: 1, 313, 279 1, 317, 215 37: 1, 308, 942 39: 1, 291, 891 1, 292, 831 1, 293, 333 1, 293, 799	34— 39: 1, 296, 509 1, 296, 510 1, 300, 497 1, 300, 670 1, 301, 130 1, 302, 490 1, 304, 572 1, 318, 931 1, 325, 848 40: 1, 301, 075 1, 313, 376 45: 1, 301, 409 46: 1, 290, 778 1, 294, 129 1, 294, 804 1, 295, 946 1, 296, 519 1, 298, 285 1, 303, 078 1, 304, 182 1, 312, 607 1, 315, 530 1, 319, 605 1, 320, 569 47: 1, 300, 701 48: 1, 294, 035 1, 298, 655 1, 308, 951 35— 2: 1, 291, 045 1, 292, 816 1, 294, 126 1, 296, 965 1, 302, 941 1, 305, 724 1, 310, 997 3: 1, 290, 664 1, 293, 837 1, 301, 046 5: 1, 302, 602 6: 1, 290, 388 1, 312, 961 8: 1, 303, 304 1, 315, 478 1, 324, 182 9: 1, 293, 586 1, 323, 779 1, 326, 695 12: 1, 295, 270 1, 295, 404 1, 296, 426 1, 297, 967 1, 308, 167 1, 311, 682 1, 314, 843 1, 321, 292 1, 322, 261 1, 322, 473 13: 1, 311, 457 1, 318, 366 15: 1, 318, 681 16: 1, 292, 508 1, 292, 700 1, 319, 687 36— 1: 1, 303, 565 1, 325, 588 2: 1, 300, 661 1, 300, 851 1, 307, 235 1, 312, 923 1, 317, 167 1, 324, 484 3: 1, 317, 161 4: 1, 290, 692 1, 298, 089 1, 309, 047 1, 312, 781 5: 1, 300, 998 9: 1, 290, 547 1, 291, 958 1, 301, 228 1, 305, 782 1, 319, 680 1, 323, 845 13: 1, 296, 044 1, 312, 327 1, 317, 975 14: 1, 293, 337 1, 298, 937 15: 1, 290, 068 1, 304, 646 1, 305, 812 1, 318, 247 16: 1, 293, 217 1, 311, 356 1, 315, 637 1, 320, 797 1, 322, 555 22: 1, 296, 894 1, 297, 359 1, 298, 156 1, 303, 871 1, 311, 079	36— 22: 1, 312, 528 1, 317, 968 1, 317, 969 1, 324, 390 28: 1, 290, 351 1, 290, 352 29: 1, 304, 915 30: 1, 297, 834 31: 1, 326, 264 32: 1, 297, 720 1, 298, 551 1, 313, 119 1, 315, 482 1, 318, 645 34: 1, 297, 423 35: R. 14, 596 1, 290, 095 1, 290, 774 1, 291, 269 1, 292, 120 1, 292, 360 1, 295, 201 1, 300, 071 1, 303, 841 1, 303, 869 1, 307, 990 1, 311, 545 1, 313, 118 1, 314, 393 1, 314, 997 1, 315, 682 1, 317, 222 1, 318, 305 1, 319, 049 1, 324, 993 1, 325, 367 1, 325, 695 36: R. 14, 740 1, 291, 657 1, 295, 257 1, 296, 802 1, 298, 104 1, 300, 070 1, 300, 072 1, 307, 423 1, 307, 985 1, 313, 026 1, 313, 400 1, 320, 179 1, 320, 357 1, 320, 417 37: 1, 297, 922 38: 1, 299, 983 1, 309, 480 39: 1, 295, 892 1, 301, 874 40: 1, 296, 939 1, 310, 614 1, 314, 319 41: 1, 301, 601 1, 311, 914 1, 315, 767 42: 1, 293, 349 1, 298, 011 1, 301, 403 1, 301, 404 1, 301, 654 1, 306, 389 1, 316, 505 45: R. 14, 744 1, 291, 092 1, 295, 334 1, 303, 037 48: 1, 314, 074 50: 1, 291, 365 1, 294, 075 1, 294, 179 1, 294, 965 1, 296, 529 1, 296, 530 54: 1, 309, 958 58.5: 1, 292, 817 1, 302, 677 1, 308, 206 1, 324, 400 59: 1, 290, 693 1, 293, 429 1, 297, 062 1, 299, 037 1, 299, 182 1, 303, 571 1, 304, 616 1, 307, 737 1, 318, 593 1, 325, 822 1, 292, 212 62: 1, 290, 768 1, 319, 021 1, 319, 074 1, 326, 648 1, 326, 687 63: 1, 310, 358 1, 311, 079	36— 64: 1, 302, 198 65: 1, 294, 483 66: 1, 297, 701 68: 1, 322, 181 70: 1, 295, 022 71: 1, 291, 639 1, 299, 221 1, 299, 615 1, 301, 579 1, 302, 760 1, 304, 826 1, 311, 240 1, 313, 442 1, 313, 924 1, 316, 156 1, 316, 423 1, 318, 972 1, 320, 364 1, 320, 952 1, 325, 076 1, 325, 830 72: 1, 294, 401 1, 302, 721 1, 304, 593 1, 311, 046 1, 317, 427 1, 326, 542 73: 1, 292, 681 1, 297, 061 1, 304, 530 1, 305, 459 1, 316, 020 1, 318, 608 74: 1, 297, 434 1, 319, 793 1, 310, 050 75: 1, 322, 015 1, 322, 285 1, 326, 503 76: 1, 317, 021 1, 325, 845 78: 1, 293, 135 1, 293, 136 1, 299, 299 1, 307, 174 1, 308, 804 37— 5: 1, 290, 332 1, 291, 594 1, 296, 400 1, 297, 430 1, 304, 263 1, 307, 410 1, 312, 852 1, 313, 115 1, 317, 059 1, 317, 371 1, 317, 601 1, 317, 602 1, 318, 093 1, 318, 561 1, 319, 972 7: 1, 290, 085 1, 294, 812 1, 296, 295 1, 296, 789 1, 296, 807 1, 299, 907 1, 304, 557 1, 308, 174 1, 314, 308 1, 318, 555 1, 318, 679 1, 322, 974 1, 325, 601 1, 325, 880 9: 1, 295, 056 1, 314, 793 11: 1, 295, 576 1, 307, 009 1, 308, 383 17: 1, 324, 526 18: 1, 307, 574 1, 320, 642 19: R. 14, 717 1, 322, 365 1, 301, 918 1, 312, 128 1, 315, 903 1, 316, 046 1, 326, 325 22: 1, 295, 551 23: 1, 310, 570 24: 1, 290, 871 1, 298, 978 1, 301, 017 1, 304, 683 1, 305, 270 1, 306, 350 1, 308, 351 1, 307, 370 1, 313, 217 1, 313, 218 1, 313, 220	37— 24: 1, 313, 221 1, 313, 695 1, 316, 074 1, 317, 697 1, 320, 872 1, 323, 611 25: 1, 293, 229 1, 295, 996 1, 296, 302 1, 308, 351 1, 320, 328 1, 324, 241 27: 1, 295, 615 1, 300, 620 1, 307, 335 29: 1, 290, 479 1, 299, 826 1, 299, 932 1, 320, 952 1, 300, 299 1, 301, 344 1, 302, 046 1, 310, 728 1, 311, 621 1, 313, 297 1, 316, 999 30: 1, 291, 166 1, 297, 132 1, 298, 340 1, 300, 846 1, 311, 259 33: 1, 293, 536 1, 297, 163 1, 298, 126 1, 308, 666 1, 313, 408 1, 315, 666 1, 319, 615 35: R. 14, 754 1, 300, 035 36: 1, 304, 509 39: 1, 295, 552 1, 296, 347 1, 325, 638 40: 1, 311, 338 42: 1, 303, 415 1, 317, 037 1, 323, 804 1, 326, 347 45: 1, 298, 642 47: 1, 316, 349 49: 1, 298, 331 1, 298, 458 1, 318, 473 50: 1, 291, 895 1, 298, 374 1, 319, 438 1, 319, 951 54: 1, 292, 757 1, 296, 800 1, 300, 842 1, 306, 873 1, 313, 911 1, 314, 700 1, 316, 058 1, 325, 027 58: 1, 321, 771 1, 322, 688 60: 1, 298, 200 61: 1, 310, 546 62: 1, 300, 764 1, 326, 658 63: 1, 314, 762 1, 322, 296 38— 8: 1, 314, 565 9: 1, 321, 665 11: 1, 326, 531 12: 1, 292, 726 1, 304, 637 1, 314, 529 1, 326, 236 13: 1, 315, 406 1: 1, 303, 077 3: 1, 307, 317 4: 1, 302, 139 7: 1, 296, 658 8: 1, 299, 074 10: 1, 310, 369 14: 1, 292, 437 1, 325, 652 17: 1, 294, 383 18: 1, 292, 248 1, 294, 849 1, 307, 126 1, 312, 267 19: 1, 303, 719 1, 305, 907 21: 1, 312, 793 22: 1, 294, 339 34: 1, 299, 281 1, 299, 549 1, 300, 284
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## Classification of patents—Continued.

39—	41: 1,299,250	40—	27: 1,325,470	40—	76: 1,308,658	40—	133: 1,311,472	42—	3: 1,294,506	42—	89: 1,326,721		
	48: 1,324,127		28: 1,290,993		77: 1,290,110		135: 1,292,978		1,296,204		90: 1,290,581		
	56: 1,316,080		1,299,166		1,291,928		136: 1,314,745		1,297,240		1,290,674		
	1,321,832		1,307,550		1,296,253		140: 1,291,370		1,297,241		1,297,571		
	57: 1,297,949		1,322,542		1,299,079		1,304,080		1,298,887		1,298,166		
	1,322,190		31: 1,306,975		1,299,976		1,305,121		1,308,016		1,298,403		
	59: 1,297,099		1,308,698		1,301,722		1,315,077		1,310,397		1,298,449		
	1,307,804		1,310,688		1,305,901		1,317,763		1,311,715		1,299,279		
	60: 1,304,199		1,310,689		1,311,289		1,319,513		1,312,687		1,300,940		
	64: 1,298,709		1,313,110		1,313,445		1,323,339		1,318,214		1,301,753		
	74: 1,298,241		32: 1,312,237		1,313,678		142: 1,315,892		1,320,578		1,316,664		
	1,315,006		1,315,425		1,323,049		1,323,694		1,322,053		1,317,632		
	75: 1,296,034		1,317,436		1,323,353		143: 1,314,165		1,323,009		91: 1,291,770		
	81: 1,316,062		1,326,084		1,323,866		145: 1,292,137		4: 1,315,329		1,325,292		
	86: 1,290,176		33: 1,295,493		1,325,171		1,294,957		7: 1,299,303		94: 1,295,688		
	1,323,057		1,304,899		78: 1,292,467		1,307,655		11: 1,294,295		1,314,951		
	87: 1,290,769		1,313,550		1,312,806		145.1: 1,310,096		16: 1,294,452		95: 1,326,569		
	1,294,712		36: 1,313,110		1,291,133		1,314,548		11: 1,294,295		1,290,998		
	1,303,486		1,313,434		1,296,246		145.2: 1,304,337		1,294,454		1,292,871		
	1,307,996		1,318,255		1,308,914		1,312,903		1,305,830		1,293,591		
40—	1: 1,291,499		1,322,175		1,312,445		145.3: 1,300,137		1,313,912		1,294,615		
	1,307,293		1,325,071		1,318,139		1,307,394		1,314,886		1,299,580		
1.5:	1,293,137		37: 1,291,553		87: 1,310,279		145.6: 1,313,366		1,315,295		1,302,972		
	1,295,280		40: 1,292,433		1,311,056		145.8: 1,325,621		1,316,803		1,303,132		
	1,310,804		42: 1,294,932		1,316,353		148: 1,308,695		1,318,080		1,304,074		
1.6:	1,301,177		1,310,978		1,299,795		149: 1,295,465		1,322,227		1,305,493		
2:	1,298,273		1,320,470		88: 1,323,931		1,303,306		1,322,242		1,306,059		
	1,303,386		43: 1,317,561		1,326,396		1,309,705		1,323,065		1,308,497		
	1,303,588		46: 1,312,146		89: 1,316,179		152: 1,309,183		18: 1,290,833		1,308,952		
	1,306,492		47: 1,316,795		1,316,691		155: 1,296,544		1,290,845		1,309,556		
	1,309,904		48: 1,294,280		90: 1,305,271		1,313,778		1,294,451		1,310,124		
	1,315,321		52: 1,291,010		91: 1,297,888		1,321,650		1,303,407		1,311,281		
	1,321,477		1,292,765		1,303,830		156: 1,315,196		1,318,200		1,311,704		
3:	1,312,248		1,295,121		1,313,055		158: 1,323,086		1,322,438		1,313,203		
	1,318,283		1,295,783		94: 1,298,977		159: 1,317,946		1,323,064		1,315,186		
	1,318,821		1,298,871		95: 1,315,501		41—		1,317,999		1,317,999		
	1,318,909		1,301,396		1,319,563		3.5:	1,302,097	19:	1,290,851		1,320,237	
	1,320,426		1,310,361		96: 1,290,724		4:	1,292,350		1,314,013		1,319,693	
	1,321,570		1,316,312		1,301,620		1,326,217		1,304,274		1,323,016		
4:	1,298,992		1,320,218		1,314,730		4.5:	1,326,491	21:	1,317,988		1,323,509	
	1,312,611		1,320,308		99: 1,295,554		5:	1,295,956		1,325,253		1,325,475	
5:	1,293,910		1,320,807		102: 1,318,506		7:	1,299,852	24:	1,304,861		1,326,577	
	1,322,380		1,323,208		1,323,982		1,301,890		25:	1,290,834		2: 1,290,359	
7:	1,295,300		53: 1,295,577		1,326,832		1,304,795		1,309,337		1,298,361		
	1,299,645		1,305,255		107: 1,299,354		9:	1,291,369		1,309,338		1,299,896	
	1,324,349		1,308,200		1,315,864		10:	1,300,592		1,317,587		1,306,655	
8:	1,319,891		1,309,222		1,324,330		12:	1,295,581		1,325,400		1,314,276	
	1,319,892		1,309,256		113: 1,311,101		1,302,888		41:	1,302,909		1,316,566	
	1,319,893		1,312,632		1,321,498		1,320,693		42:	1,302,910		4: 1,296,386	
9:	1,296,766		1,313,816		117: 1,310,428		13:	1,367,617		1,304,983		1,317,996	
	1,315,473		1,313,817		1,310,905		17:	1,201,568		1,312,170		5: 1,290,544	
10:	R. 14,589		1,316,470		1,323,881		18:	1,326,639		1,314,196		1,292,624	
	1,292,740		1,322,061		119: 1,291,194		21:	1,313,806		46:	1,322,287		1,293,115
	1,298,859		1,323,892		1,316,039		22:	1,315,368		48:	1,309,026		1,295,079
	1,298,910		1,324,810		1,320,656		22:	1,291,879		49:	1,308,665		1,295,397
	1,302,784		1,324,924		121: 1,324,825		24:	1,320,524		50:	1,293,877		1,306,972
	1,303,661		1,325,481		122: 1,299,029		25:	1,293,942		1,322,062		1,302,095	
	1,320,448		54: 1,295,113		125: 1,297,820		1,318,942		52:	1,318,085		1,304,746	
	1,321,662		56: 1,311,634		1,299,353		1,321,912		53:	1,320,493		1,309,193	
	1,321,926		57: 1,325,131		1,300,743		25.5:	1,316,888		1,298,920		1,312,223	
	1,322,815		59: 1,315,336		1,301,119		1,324,638		1,299,260		1,322,149		
	1,323,211		1,323,672		61: 1,290,001		1,303,100		1,323,973		6: 1,297,344		
11:	1,296,390		61: 1,290,001		1,303,100		1,299,216		54:	1,307,472		7: 1,295,370	
	1,304,031		1,291,493		1,304,395		1,304,071		1,308,141		1,307,411		
	1,310,262		1,308,323		1,306,491		1,304,702		55:	1,306,577		1,306,383	
	1,316,779		1,314,633		1,308,502		1,304,749		56:	1,304,710		9: 1,291,469	
	1,321,815		62: 1,317,202		1,310,769		1,306,505		57:	1,305,335		1,304,302	
	1,323,131		63: 1,293,099		1,313,548		1,308,098		1,308,143		1,305,483		
	1,325,476		1,303,834		1,316,756		33: 1,308,531		1,321,817		1,307,513		
13:	1,326,714		1,315,899		126: 1,325,979		35: 1,316,994		1,326,431		1,307,623		
15:	1,321,716		1,320,270		130: 1,295,826		37:	1,309,032		66: 1,313,073		1,310,553	
	1,322,912		1,323,325		1,302,001		1,320,950		69: 1,297,535		1,320,033		
16:	1,291,739		1,326,694		1,303,556		38.5:	1,293,077		1,297,859		1,320,804	
	1,292,134		64: 1,291,749		1,303,699		1,293,983		70: 1,294,186		11: 1,318,517		
	1,304,150		1,301,216		1,305,696		1,310,410		1,305,346		1,323,122		
	1,306,757		65: 1,326,831		1,309,464		1,315,116		1,306,685		14: 1,296,771		
	1,320,957		67: 1,292,434		1,310,410		1,316,067		1,318,423		1,300,654		
	1,322,188		1,292,709		1,315,116		1,316,475		1,322,514		1,301,366		
17:	1,294,332		1,292,711		1,316,475		39:	1,302,344		1,424,493		1,310,815	
	1,313,659		1,292,711		1,316,475		41:	1,312,723		1,290,937		1,312,969	
19:	1,298,941		1,292,713		1,326,210		42:	1,310,659		1,300,688		1,316,514	
	1,318,941		1,292,855		131: 1,301,250		1,313,233		73:	1,315,215		1,310,452	
20:	1,290,605		1,297,214		132: R. 14,679		1,317,700		74:	1,305,617		1,315,986	
	1,294,595		1,303,754		1,290,543		43: 1,290,786		1,307,529		1,318,421		
	1,297,405		1,305,844		1,292,400		45: 1,312,321		1,325,152		17: 1,322,706		
	1,304,417		1,308,198		1,292,655		46: 1,295,978		75: 1,316,510		19: 1,293,894		
	1,306,390		1,308,240		1,294,527		67.1:	1,313,566		76: 1,290,840		1,294,293	
	1,308,771		1,311,755		1,295,021		42—	1: 1,290,292		1,323,149		1,297,893	
	1,308,792		1,313,398		1,295,301		1,291,692		77: 1,297,891		1,300,981		
	1,313,888		1,313,609		1,301,741		1,303,887		1,317,434		1,305,054		
	1,314,731		1,318,816		1,304,423		1,305,028		78: 1,299,972		1,307,763		
21:	1,291,266		1,321,702		1,308,157		1,307,066		84: 1,303,032		20: 1,292,794		
	1,298,268		1,326,009		1,305,282		1,317,022		85: 1,309,431		1,317,555		
	1,298,621		68: 1,296,307		1,314,626		1,318,905		1,309,605		21: 1,290,697		
	1,324,568		1,306,464		1,315,187		1,323,151		86: 1,290,807		1,292,916		
23:	1,326,370		1,306,739		1,321,863		3: 1,290,849		1,314,672		1,299,086		
25:	1,292,198		1,317,009		70: 1,323,763		1,290,855		1,317,051		1,299,109		
26:	1,291,666		1,321,234		72: 1,313,173		1,325,008		87: 1,306,019		1,303,547		
	1,305,693		73: 1,302,495		1,325,831		1,291,688		1,306,416		1,316,788		
	1,316,413		1,320,519		133: 1								

## Classification of patents—Continued.

43—	22:	1,290,717 1,290,760 1,292,459 1,293,271 1,293,563 1,294,036 1,294,184 1,297,267 1,297,728 1,297,894 1,302,160 1,304,397 1,308,439 1,309,606 1,312,096 1,312,573 1,313,837 1,313,986 1,314,112 1,314,242 1,314,367 1,318,562 1,319,369 1,320,017 1,320,986 1,321,286 1,321,360 1,322,969 1,324,727 1,324,888 1,325,069	43—	31:	1,290,144 1,292,860 1,293,127 1,295,448 1,296,057 1,296,370 1,309,365 1,312,734 1,312,824 1,317,843 1,318,072 1,318,073 1,320,570 1,322,365 1,324,829 32: 1,299,372 1,326,818 34: 1,295,207 1,307,678 1,326,320 36: 1,319,268 37: 1,304,876 1,326,662	44—	1:	R. 14, 653 1,290,992 1,295,455 1,295,456 1,298,546 1,299,408 1,305,209 1,305,392 1,308,754 1,309,209 1,310,004 1,311,221 1,311,222 1,312,173 1,312,521 1,320,371 2: 1,297,669 1,308,009 1,325,618 3: 1,290,494 1,294,218 1,317,936 6: 1,292,521 1,298,214 7: 1,313,876 1,317,950 8: 1,296,241 1,298,832 1,296,902 1,297,388 1,304,433 1,303,244 1,310,985 1,313,158 1,318,060 1,324,705 1,325,907	45—	1:	1,307,261 1,322,454 2: 1,291,881 1,292,946 1,293,773 1,294,087 1,299,246 1,299,247 1,299,573 1,299,724 1,299,725 1,299,746 1,306,728 1,307,591 1,308,647 1,313,150 1,323,560 3: 1,291,296 1,323,724 4: 1,298,628 1,316,015 1,316,719 6: 1,291,976 1,293,952 1,299,331 1,300,229 1,303,280 1,305,983 1,308,441 1,315,846 1,322,385 1,324,560 7: 1,290,743 1,295,186 1,302,397 1,312,714 1,314,550 1,323,202 9: 1,295,438 1,303,828 1,317,174 11: 1,295,194 1,296,075	45—	11:	1,298,249 1,300,861 1,300,862 1,302,589 1,306,466 1,309,774 1,312,137 1,314,751 1,290,101 1,290,810 1,292,931 1,293,953 1,294,048 1,294,916 1,300,908 1,301,500 1,301,607 1,305,179 1,305,210 1,308,564 1,308,670 1,313,827 1,318,257 1,322,585 1,322,835 1,322,936 1,324,180 15: 1,305,553 1,306,930 1,325,316 16: 1,294,971 1,296,670 1,296,908 1,303,697 1,305,248 1,316,254 1,316,489 1,318,229 1,320,177 17: 1,291,248 1,291,486 1,318,387 24: 1,296,397 1,297,556 1,298,323 1,299,873 1,300,724 1,302,180 1,302,421 1,306,693 1,310,392 1,311,413 1,311,653 1,314,574 1,318,183 1,318,426 1,318,721 1,320,409 1,322,891 1,326,196 1,326,505 1,326,776 27: 1,320,455 28: 1,292,982 1,298,215 1,300,248 1,301,723 1,305,148 1,305,918 1,309,965 1,311,666 1,312,420 1,317,674 1,318,567 1,320,814 31: 1,290,137 1,296,238 1,296,336 1,299,506 1,300,759 1,303,446 1,303,921 1,309,097 1,313,182 1,314,240 1,315,344 1,318,803 1,320,215 1,321,732 1,323,745 1,325,390 1,326,746 1,326,799 32: 1,290,932 1,290,950 1,291,162 1,291,188 1,292,512 1,295,478 1,298,909 1,299,630 1,302,753 1,304,595	45—	32:	1,305,048 1,312,385 1,314,625 1,319,796 1,323,296 1,325,472 1,326,691 33: 1,290,290 1,313,896 37: 1,297,224 38: 1,320,553 1,325,107 47: 1,316,720 48: 1,292,090 1,297,415 1,301,617 1,317,768 1,320,611 1,325,917 50: 1,299,894 51: 1,302,542 1,305,449 1,315,913 52: 1,291,562 1,291,741 1,294,351 1,295,326 1,295,390 1,297,866 1,297,977 1,300,780 1,308,420 1,313,307 1,314,628 1,315,989 1,318,677 1,321,439 1,323,331 53: 1,317,550 1,317,589 1,322,791 54: 1,303,550 55: 1,312,891 57: 1,304,668 1,323,586 59: 1,294,577 1,305,853 1,320,849 60: 1,291,304 1,319,896 61: 1,299,374 1,321,941 1,326,720 64: 1,294,685 69: 1,293,400 1,317,423 70: 1,292,089 1,308,652 71: 1,291,321 1,297,910 1,299,618 1,313,364 1,314,108 75: 1,307,211 1,324,709 77: 1,301,495 1,304,133 1,304,991 1,311,042 1,318,919 1,321,166 1,321,167 1,321,859 78: 1,290,782 1,310,322 1,314,271 80: 1,301,406 1,307,945 1,318,544 81: 1,317,249 82: 1,290,072 1,293,631 1,295,182 1,297,015 1,298,672 1,299,164 1,300,045 1,301,953 1,305,512 1,307,122 1,308,034 1,312,274 1,318,703 1,319,445 1,319,535 1,324,503 1,326,683 90: 1,291,923 94: 1,292,550 1,299,302 1,307,581 1,312,032 1,315,709	45—	94:	1,318,011 1,317,934 96: 1,314,481 1,325,965 97: 1,324,456 99: 1,324,133 100: 1,316,303 102: 1,323,469 103: 1,325,585 106: 1,300,722 1,315,628 109: 1,303,683 1,307,784 110: 1,295,680 111: 1,293,253 1,310,284 112: 1,302,420 1,304,204 1,307,808 1,325,458 113: 1,294,734 1,303,997 1,307,145 1,322,132 1,325,454 115: 1,299,687 1,305,310 116: 1,290,046 1,302,042 1,302,703 1,305,809 1,308,350 1,313,662 1,318,970 1,319,753 1,323,080 117: 1,306,666 118: 1,290,299 119: 1,297,630 1,309,512 120: 1,315,794 121: 1,308,956 1,312,485 1,316,424 1,320,322 122: 1,304,540 131: 1,290,811 1,313,732 1,314,060 1,316,729 1,316,931 1,320,439 132: 1,290,085 133: 1,305,206 1,305,862 1,307,302 134: 1,293,005 135: 1,295,174 1,297,568 136: 1,323,858 46—	46—	14:	1,308,340 1,310,234 1,311,534 1,315,479 1,319,581 1,320,262 1,321,836 15: 1,299,055 21: R. 14, 742 1,292,722 1,292,766 1,295,436 1,303,482 1,303,874 1,307,437 1,310,482 1,310,483 1,311,810 1,317,880 22: 1,290,562 1,302,238 1,304,985 1,305,517 1,309,547 1,312,382 1,312,563 1,317,231 1,320,621 1,320,710 1,325,046 1,325,098 24: 1,292,317 1,300,972 1,322,754 25: 1,290,498 1,292,184 1,293,183 1,305,949 1,310,177 1,312,278 1,314,522 1,315,907 1,320,628 1,320,817 1,320,899 1,322,204 1,322,954 1,323,713 27: 1,293,393 1,293,821 1,295,145 1,296,417 1,300,674 1,301,476 1,302,088 1,307,774 1,308,568 1,313,668 1,318,986 1,319,073 1,319,643 1,320,235 1,320,664 1,325,374 1,326,177 32: 1,291,752 1,292,793 1,295,929 1,317,699 1,319,123 1,321,035 1,322,217 1,324,997 1,324,998 1,324,999 1,325,000 35: 1,294,446 1,298,240 1,298,855 1,302,785 1,308,254 1,309,240 1,311,337 1,314,541 1,316,690 36: 1,295,061 1,305,750 1,310,493 1,316,474 1,324,174 1,291,991 1,292,188 1,292,422 1,292,618 1,295,118 1,296,915 1,297,777 1,299,274 1,299,534 1,300,640 1,301,552 1,301,768
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## Classification of patents—Continued.

46— 37: 1,304,776	46— 40: 1,323,033	46— 56: 1,321,589	46— 66: 1,302,897	48— 82: 1,300,839	49— 44: 1,308,341
1,305,807	1,323,112	57: 1,313,660	1,313,783	87: 1,305,913	45: 1,308,337
1,306,284	1,323,153	59: 1,290,034	1,317,020	1,318,644	47: 1,295,564
1,306,362	1,323,232	1,291,450	1,317,770	101: 1,312,352	1,296,818
1,307,260	1,323,669	1,292,011	1,322,820	102: 1,310,245	1,313,222
1,308,183	1,323,902	1,293,566	68: 1,316,683	1,314,942	1,316,160
1,311,580	1,323,968	1,294,472	69: R. 14, 618	1,319,344	1,322,735
1,312,656	1,324,057	1,294,618	1,290,742	107: 1,302,762	48: 1,307,209
1,313,705	1,324,068	1,296,036	1,291,465	180: 1,290,715	1,312,306
1,314,238	1,324,646	1,299,520	1,301,560	1,292,677	1,315,799
1,315,108	1,324,843	1,302,203	1,302,174	1,293,041	1,324,219
1,315,746	1,325,013	1,303,494	1,307,905	1,293,437	50: 1,296,661
1,315,955	1,325,651	1,305,232	1,308,259	1,295,513	1,298,987
1,317,184	1,325,986	1,306,831	1,308,675	1,298,068	1,312,341
1,318,024	1,326,790	1,309,614	1,315,098	1,298,315	1,313,845
1,318,049	41: 1,290,761	1,309,653	1,316,524	1,300,015	1,320,947
1,318,623	1,291,198	1,309,806	1,324,404	1,305,064	52: 1,308,260
1,320,362	1,293,062	1,310,415	1,326,013	1,305,174	53: 1,302,149
1,320,581	1,294,013	1,310,643	1,296,145	1,306,987	1,309,199
1,323,196	1,295,521	1,316,513	1,297,473	1,307,374	1,312,305
1,323,876	1,296,955	1,319,355	1,298,917	1,310,692	1,318,050
1,326,445	1,297,451	1,319,372	1,299,056	1,311,071	54: 1,322,767
38: 1,306,592	1,299,695	1,320,267	1,301,963	1,311,088	55: R. 14, 745
1,308,854	1,300,891	1,320,606	1,304,649	1,311,737	1,300,180
1,322,243	1,302,188	1,321,464	1,305,592	1,312,240	1,307,150
1,323,921	1,307,331	1,324,783	1,310,707	1,313,584	1,307,527
1,324,841	1,309,659	1,325,436	1,324,218	1,314,770	1,310,225
40: 1,290,067	1,314,783	61: 1,290,414	1,324,630	1,320,441	1,311,474
1,290,688	1,314,898	1,290,726	1,324,680	184: 1,301,272	1,315,562
1,290,967	1,319,245	1,294,873	1,322,058	1,302,841	1,317,827
1,291,252	1,322,727	1,295,236	1,325,026	1,311,328	1,322,318
1,292,105	1,324,003	1,295,437	202: 1,305,757	191: 1,304,754	1,323,450
1,292,113	1,325,122	1,295,504	47— 6: 1,316,467	192: 1,303,123	1,323,507
1,292,191	1,325,201	1,296,129	12: 1,311,136	1,311,774	56: 1,293,533
1,292,789	1,325,369	1,296,882	1,324,237	1,306,891	1,294,581
1,293,056	1,326,116	1,297,839	18: 1,300,775	198: 1,301,151	1,298,474
1,294,027	45: 1,303,461	1,298,591	19: 1,297,484	1,306,831	1,321,752
1,294,128	1,322,199	1,299,304	1,317,569	201: 1,313,614	1,324,917
1,294,243	46: 1,290,300	1,299,391	22: 1,290,478	215: 1,313,180	1,324,918
1,294,592	1,291,289	1,301,867	1,299,870	219: 1,323,308	58: 1,307,453
1,295,292	1,293,933	1,302,387	1,321,747	49— 1: 1,298,463	62: 1,304,568
1,295,675	1,299,430	1,305,100	1,324,668	2: 1,315,783	1,311,249
1,295,779	1,301,118	1,305,341	27: 1,296,684	3: 1,305,288	1,324,464
1,296,179	1,306,662	1,306,044	1,297,853	2: 1,315,783	66: 1,297,122
1,297,089	1,311,381	1,313,484	1,300,245	3: 1,305,288	76: 1,290,738
1,297,336	1,311,690	1,313,600	1,313,811	1,307,357	1,326,365
1,298,077	1,311,756	1,314,623	1,315,375	1,310,451	77: 1,315,668
1,298,808	1,314,614	1,314,754	1,326,113	5: 1,292,940	78: 1,315,813
1,299,377	1,315,851	1,314,843	1,326,308	1,297,706	79: 1,317,481
1,300,361	1,319,649	1,315,927	1,293,803	1,297,981	80: 1,299,482
1,300,915	47: 1,301,353	1,317,640	1,295,530	1,308,065	81: 1,293,441
1,302,379	1,301,439	1,319,038	1,303,827	1,312,876	1,294,466
1,302,693	1,301,537	1,319,799	32: 1,319,769	1,314,691	82: 1: 1,312,920
1,304,434	1,301,669	1,320,086	34: 1,297,810	1,317,176	83: 1: 1,295,158
1,304,456	1,302,389	1,320,274	35: 1,311,001	1,322,726	1,295,348
1,305,071	1,302,776	1,323,372	1,323,891	1,326,235	1,301,771
1,305,224	1,304,141	1,325,103	36: 1,297,684	7: 1,304,691	1,306,651
1,305,842	48: 1,314,809	1,325,104	1,302,543	1,308,408	1,307,946
1,307,121	1,294,237	1,325,355	1,306,209	1,313,205	1,309,274
1,307,218	1,296,277	1,296,111	1,306,547	1,322,778	84: 1,301,714
1,308,405	1,297,252	1,298,161	1,317,983	1,322,779	1,308,820
1,308,432	1,300,177	1,299,406	37: 1,299,406	7: 1,299,019	1,318,170
1,308,816	1,303,787	1,300,526	1,301,149	8: 1,292,243	87: 1,298,893
1,309,190	1,306,755	1,314,293	1,303,659	1,325,331	1,305,286
1,309,191	1,307,096	1,321,108	1,312,246	9: 1,292,051	129: 1,301,378
1,309,838	1,309,041	1,322,892	1,292,999	10: 1,297,412	9: 1,298,195
1,309,884	1,311,415	1,323,003	1,293,000	13: 1,325,388	10: 1,322,207
1,310,205	1,311,887	1,324,041	40: 1,321,051	14: 1,300,181	11: 1,308,638
1,310,293	1,312,174	1,324,386	41: 1,293,785	1,319,098	1,309,203
1,310,925	1,313,849	1,325,921	1,305,434	1,326,460	1,311,536
1,311,066	1,315,057	1,326,071	86: 1,296,173	15: 1,306,993	12: 1,295,632
1,311,351	1,318,708	1,326,848	87: 1,303,527	17: 1,307,943	14: 1,318,350
1,311,553	1,319,040	63: 1,292,228	180: 1,303,529	1,319,175	18: 1,301,405
1,311,601	1,320,889	1,300,315	4: 1,303,658	1,320,091	21: 1,314,234
1,312,447	1,321,109	1,302,805	1,303,946	1,324,965	23: 1,294,953
1,314,205	1,321,206	1,303,204	1,310,529	1,325,265	1,300,182
1,313,994	1,321,899	1,310,259	1,312,731	1,326,241	1,314,698
1,314,676	50: 1,323,900	1,310,390	1,319,758	17: 1: 1,291,921	1,324,083
1,314,822	1,292,876	1,311,112	5: 1,302,199	8: 1,307,381	26: 1,293,227
1,315,378	1,310,421	1,316,048	17: 1,313,810	1,308,278	1,304,704
1,315,820	1,316,251	1,318,615	19: 1,314,780	1,309,942	27: 1,311,442
1,316,522	1,319,094	1,319,561	21: 1,304,685	1,311,137	28: 1,299,106
1,317,016	1,294,984	1,320,315	22: 1,304,686	1,311,804	35: 1,293,895
1,317,060	1,299,578	1,323,872	1,317,706	1,318,190	1,304,162
1,317,128	51: 1,314,159	1,324,037	23: 1,292,327	1,321,810	51— 1: 1,296,985
1,317,505	52: 1,312,855	64: 1,294,256	26: 1,302,393	1,324,229	1,298,522
1,318,071	53: 1,310,137	1,295,878	38: 1,305,254	1,326,296	1,300,161
1,318,327	1,312,739	1,295,993	1,306,355	1,326,571	1,302,724
1,318,447	54: 1,290,003	1,299,731	1,311,270	18: 1,294,319	1,303,541
1,319,379	1,291,427	1,300,368	46: 1,313,607	20: 1,315,130	1,305,759
1,319,384	1,292,738	1,303,808	52: 1,318,046	21: 1,309,166	1,307,017
1,319,472	1,293,487	1,304,431	1,319,966	22: 1,325,785	1,310,291
1,320,555	1,297,871	1,307,871	53: 1: 1,299,209	29: 1,303,452	1,310,292
1,321,028	1,319,035	1,312,315	1,304,251	32: 1,323,389	1,310,360
1,321,135	1,320,370	1,314,310	1,315,051	34: 1,297,566	1,311,550
1,322,364	1,321,593	1,315,483	53: 2: 1,292,302	1,313,071	1,311,743
1,322,456	55: 1,320,798	1,319,399	58: 1,324,921	37: 1,291,952	1,314,835
1,322,462	56: 1,303,211	1,321,405	63: 1,315,269	1,292,033	1,318,630
1,322,713	1,309,349	1,322,150	66: 1,312,411	38: 1,326,765	1,319,417
1,322,733	1,309,350	65: 1,291,808	73: 1,321,963	40: 1,300,066	1,320,299
1,322,763	1,312,860	1,299,833	74: 1,312,875	44: 1,302,485	1,323,969
1,323,002	1,312,988	66: 1,295,413	77: 1,295,188		

## Classification of patents—Continued.

51—	1: 1,324,215 1,325,503 1,325,504 1,326,495 1,326,836 3: R. 14, 666 R. 14, 751 1,292,926 1,296,050 1,298,261 1,301,376 1,301,377 1,302,506 1,302,907 1,302,908 1,302,960 1,305,085 1,309,792 1,313,702 1,317,453 1,317,809 1,318,300 1,324,126 1,324,454 1,325,789 4: 1,290,896 1,293,133 1,294,024 1,294,318 1,295,031 1,295,286 1,295,940 1,295,962 1,297,396 1,298,486 1,298,963 1,299,231 1,299,711 1,299,713 1,299,714 1,299,715 1,299,716 1,299,717 1,300,669 1,300,923 1,301,165 1,301,440 1,301,679 1,303,607 1,303,744 1,303,861 1,304,644 1,304,699 1,304,799 1,305,878 1,306,400 1,306,423 1,306,533 1,306,720 1,306,767 1,307,296 1,308,166 1,309,603 1,310,278 1,310,386 1,310,640 1,311,992 1,312,881 1,313,490 1,313,601 1,314,012 1,314,851 1,315,801 1,315,909 1,316,506 1,316,942 1,318,311 1,318,531 1,319,000 1,319,921 1,324,123 1,324,124 1,324,153 1,324,224 1,325,835 1,326,091 1,326,462 1,326,759 5: 1,295,359 1,304,485 1,305,731 1,305,916 1,311,578 1,312,193 1,319,338 7: 1,290,248 1,291,285 1,291,286 1,291,381 1,291,982 1,293,751 1,294,565 1,295,156	51—	7: 1,295,982 3,296,054 1,296,979 1,297,596 1,297,776 1,303,936 1,304,067 1,304,070 1,304,698 1,305,602 1,306,969 1,308,085 1,308,088 1,308,430 1,308,433 1,308,786 1,308,961 1,310,071 1,310,700 1,314,154 1,314,304 1,315,066 1,315,384 1,315,747 1,316,520 1,317,892 1,318,138 1,318,441 1,319,713 1,320,462 1,321,838 1,321,970 1,323,452 1,324,087 1,324,431 1,324,497 1,324,512 1,325,132 1,325,675 1,326,423 8: 1,294,315 1,300,760 1,313,790 10: 1,292,894 1,304,810 1,320,859 11: 1,290,659 1,290,990 1,293,334 1,294,398 1,301,190 1,301,375 1,302,316 1,302,404 1,305,038 1,307,577 1,308,933 1,310,263 1,311,517 1,311,518 1,311,519 1,312,235 1,313,260 1,313,402 1,314,785 1,318,848 1,324,992 12: 1,291,572 1,292,004 1,292,372 1,293,621 1,297,223 1,301,980 1,305,954 1,309,301 1,313,306 13: 1,291,812 1,294,430 1,303,643 1,308,610 1,308,762 1,316,841 1,319,041 1,321,824 14: 1,297,400 15: 1,294,574 1,312,589 1,318,483 1,291,179 1,292,406 1,292,844 1,294,113 1,294,616 1,299,239 1,301,801 1,304,675 1,304,953 1,306,733 1,307,658 1,308,196 1,310,744 1,312,538 1,316,228	51—	16: 1,316,403 1,316,948 1,316,965 1,317,095 1,318,025 1,318,278 1,318,279 1,318,280 1,319,149 1,324,121 1,325,494 1,326,101 1,326,784 17: 1,308,093 1,309,370 1,312,529 1,312,653 19: 1,304,194 20: 1,292,035 29: 1,291,258 1,293,154 1,293,882 1,297,213 1,298,793 1,309,014 1,311,171 1,311,274 1,320,160 2: 1,308,393 1,308,394 1,309,552 1,311,872 1,312,156 1,313,650 1,325,928 3: 1,293,515 1,295,089 1,297,170 1,299,942 1,301,105 1,302,202 1,302,455 1,302,468 1,303,115 1,305,845 1,305,846 1,305,946 1,306,440 1,307,032 1,307,033 1,307,034 1,307,599 1,307,766 1,307,771 1,308,343 1,308,344 1,308,346 1,309,551 1,309,553 1,309,558 1,310,489 1,310,848 1,310,969 1,311,017 1,311,909 1,311,910 1,311,926 1,312,463 1,312,464 1,313,459 1,315,700 1,315,701 1,316,360 1,324,774 4: 1,293,326 1,295,975 1,307,490 1,308,342 5: 1,290,146 6: 1,301,646 1,308,463 1,310,466 1,318,074 1,319,329 1,320,514 53—	1: 1,290,186 1,293,303 1,295,414 1,297,548 1,297,676 1,299,267 1,299,963 1,301,997 1,305,702 1,305,818 1,307,482 1,308,244 1,310,015 1,311,957 1,312,075 1,316,827 1,317,071	53—	1: 1,317,443 1,317,552 1,322,846 1,323,028 1,323,473 1,323,543 1,323,817 1,326,124 2: 1,290,771 1,297,832 1,315,671 1,318,700 1,326,214 3: 1,290,546 1,291,315 1,292,569 1,293,210 1,294,505 1,296,086 1,300,175 1,302,483 1,305,822 1,308,415 1,306,688 1,307,745 1,309,374 1,309,414 1,310,796 1,312,203 1,313,582 1,315,198 1,315,908 1,316,106 1,317,447 1,317,717 4: 1,309,565 5: 1,297,425 1,297,549 1,300,565 1,300,975 1,301,197 1,301,602 1,307,078 1,308,151 1,312,616 1,321,318 1,324,544 6: R. 14, 761 1,296,982 1,291,490 1,291,491 1,291,492 1,292,031 1,294,528 1,295,466 1,296,423 1,297,190 1,300,504 1,302,661 1,302,662 1,302,663 1,302,664 1,304,622 1,304,740 1,307,962 1,308,482 1,308,821 1,309,062 1,309,444 1,313,947 1,316,365 1,321,204 1,324,297 7: 1,292,476 1,295,716 1,304,508 1,317,715 1,319,373 1,319,878 1,320,662 8: 1,291,620 1,294,942 1,298,940 1,299,321 1,304,448 1,310,208 1,310,981 1,314,180 1,317,045 1,317,066 1,319,433 1,321,768 1,322,863 1,325,613 9: 1,305,825 1,322,714 1,292,658 1,293,849 11: 1,324,025 174: 1,321,038 54—	1: 1,313,921 1,314,464	54—	6: 1,293,454 1,296,806 1,315,357 8: 1,291,243 10: 1,322,367 18: 1,298,732 19: 1,316,891 21: 1,294,352 1,316,170 23: 1,303,941 24: 1,325,061 26: 1,310,174 29: 1,292,109 30: 1,293,129 31: 1,305,117 1,310,636 36: 1,303,735 1,321,431 38: 1,292,996 43: 1,317,168 44: 1,301,838 1,321,397 1,321,398 1,323,311 49: 1,303,142 1,314,992 1,321,653 1,323,549 53: 1,307,436 1,318,291 1,321,138 1,304,743 55: 1,300,085 1,313,499 59: 1,318,420 63: 1,303,258 71: 1,321,681 73: 1,297,086 1,309,195 77: 1,307,914 79: 1,293,521 80: 1,297,753 1,311,933 1,318,477 83: 1,293,043 87: 1,321,718 1: 1,302,883 2: 1,302,375 1,309,949 3: 1,295,484 6: 1,320,533 9: 1,290,049 1,295,340 1,296,648 1,302,259 1,306,673 1,307,272 1,314,155 1,321,782 10: 1,304,942 1,309,340 1,318,577 1,318,765 11: 1,293,745 1,296,777 1,324,407 1,305,079 1,319,306 1,319,912 1,321,055 17: 1,294,818 1,298,239 1,300,018 1,304,156 1,305,940 1,325,580 18: 1,295,364 22: 1,299,043 1,314,292 23: 1,304,952 24: 1,305,215 1,311,212 1,322,447 25: 1,312,703 1,297,123 1,297,933 34: 1,297,955 1,319,955 36: 1,308,635 39: 1,294,614 1,295,682 1,296,202 1,298,841 1,302,290 1,302,348 40: 1,326,108 45: 1,294,231 47: 1,293,600 1,302,146 48: 1,322,092 51: 1,297,298 1,298,169	55—	51: 1,303,160 1,303,858 1,306,139 1,319,058 1,321,326 54: 1,295,671 56: 1,319,505 57: 1,301,857 60: 1,306,204 1,309,885 1,310,569 1,316,676 1,319,780 61: 1,297,182 1,322,742 64: 1,318,527 65: 1,293,824 1,316,962 66: 1,292,376 67: 1,303,570 71: 1,322,920 73: 1,301,268 76: 1,299,553 77: 1,304,871 78: 1,301,226 79: 1,296,738 81: 1,297,302 83: 1,322,046 1,322,066 1,324,882 84: 1,299,561 1,318,829 85: 1,291,129 1,291,780 1,294,049 1,301,443 1,304,838 1,308,360 1,313,008 1,313,310 1,315,918 1,317,533 1,318,230 88: 1,323,481 89: 1,306,352 91: 1,295,990 98: 1,309,177 1,317,596 103: 1,313,144 104: 1,296,735 1,310,582 1,298,708 1,299,825 1,302,973 1,307,640 1,309,617 1,323,683 107: 1,293,632 1,294,388 1,297,666 1,300,955 1,301,328 1,301,329 1,301,330 1,303,857 1,304,486 1,308,921 1,310,849 1,319,069 1,321,737 1,326,422 108: 1,291,567 1,294,801 1,295,591 1,297,231 1,300,362 1,301,006 1,302,118 1,306,586 1,310,335 1,311,201 1,315,381 1,322,389 109: 1,300,636 114: 1,304,941 115: 1,300,452 1,307,328 116: 1,290,261 1,291,505 1,297,661 1,320,560 128: 1,300,767 134: 1,293,144 137: 1,293,170 1,314,122 138: 1,313,053 1,318,901 139: 1,302,568 1,314,394 141: 1,309,940 144: 1,315,410 145: 1,308,706 146: 1,305,874
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## Classification of patents—Continued.

55— 146: 1,310,541	56— 99: 1,302,531	57— 9: 1,302,461	58— 56: 1,307,053	60— 16: 1,313,767	60— 64: 1,296,411
1,310,868	1,303,885	1,305,135	1,326,811	1,314,553	1,304,144
1,318,079	1,304,127	1,305,438	57: 1,322,500	1,317,310	1,320,671
148: 1,297,319	1,312,967	1,306,255	1,322,770	1,318,897	67: 1,291,322
149: 1,294,067	1,315,095	1,306,497	63: 1,292,269	1,323,686	1,299,593
150: 1,308,938	1,317,927	1,306,802	68: 1,290,032	1,323,873	1,301,960
151: 1,307,265	1,319,407	1,307,887	1,310,524	17: 1,292,897	1,308,407
152: 1,293,353	1,321,721	1,308,021	88: 1,306,140	1,299,774	70: 1,294,437
56— 1: 1,254,898	99: 1: 1,309,009	1,308,255	1,320,251	1,301,614	1,296,210
1,295,822	100: 1,290,484	1,309,048	1,321,867	1,320,676	1,298,103
1,297,867	1,298,244	1,310,169	88: 5: 1,293,449	1,323,939	1,299,564
1,301,829	1,304,001	1,311,958	90: 1,292,442	23: 1,292,773	1,302,639
1,303,120	1,309,689	1,312,241	1,292,443	24: 1,290,756	1,302,962
1,304,797	1,312,388	1,312,926	1,300,278	1,310,435	1,303,585
6: 1,291,652	1,318,272	1,314,484	1,322,547	25: 1,292,396	1,309,077
1,300,276	103: 1,293,583	1,314,996	91: 1,291,336	27: 1,317,401	1,312,907
1,314,096	106: 1,324,683	1,315,581	1,293,947	29: 1,291,458	73: 1,319,699
1,325,614	111: 1,315,465	1,316,157	1,304,421	30: 1,304,928	88: 1,304,298
7: 1,299,906	113: 1,295,254	1,316,436	1,308,690	31: 1,305,791	89: 1,291,355
1,320,098	1,295,255	1,316,824	1,313,798	32: 1,301,036	1,296,412
1,320,151	1,303,298	1,317,229	95: 1,292,540	1,322,488	1,321,901
12: 1,314,437	1,306,317	1,317,291	1,292,441	1,324,159	93: 1,308,122
14: 1,323,089	115: 1,291,392	1,317,300	1,292,446	39: 1,297,069	95: 1,308,835
15: 1,308,643	1,294,822	1,317,500	1,294,895	40: 1,302,659	1,309,993
16: 1,293,800	1,296,227	1,320,403	1,295,023	41: 1,291,273	1,313,676
1,308,818	1,313,880	1,324,500	96: 1,308,210	1,296,980	1,314,993
1,311,825	117: 1,295,323	1,326,566	1,314,172	1,298,430	102: 1,291,876
1,316,646	1,297,376	11: 1,305,204	99: 1,317,474	1,299,330	1,296,378
19: 1,291,295	121: 1,295,271	1,314,397	105: 1,303,888	1,300,026	103: 1,307,564
1,293,287	1,297,394	1,319,291	1,313,636	1,300,903	1,313,058
1,293,321	1,307,191	1,325,025	109: 1,311,502	1,301,871	1,319,177
1,294,387	1,319,488	13: 1,306,785	112: 1,320,400	1,302,138	108: 1,314,858
1,295,108	122: 1,293,922	1,312,705	114: 1,313,291	1,306,113	61— 1: 1,316,150
1,296,577	1,299,599	1,314,328	115: 1,311,501	1,306,388	2: 1,314,743
1,304,917	124: 1,291,760	1,320,350	117: 1,326,499	1,308,233	3: 1,294,556
1,311,382	131: 1,294,323	1,291,836	125: 1,298,353	1,310,459	1,310,461
1,313,866	1,297,950	1,293,083	127: 1,310,523	1,310,668	5: 1,290,668
1,313,972	1,314,080	1,298,905	1,319,044	1,310,672	7: 1,292,246
21: 1,315,455	133: 1,295,331	1,320,408	140: 1,310,038	1,311,401	7: 1,302,422
1,321,979	1,295,651	40: 1,291,308	59— 1: 1,295,441	1,312,899	1,304,012
22: 1,290,407	192: 1,323,498	1,301,728	9: 1,297,770	1,315,230	1,305,656
1,299,685	222: 1,322,334	1,306,206	16: 1,291,712	1,316,234	8: 1,292,754
1,301,512	242: 1,307,471	1,319,876	35: 1,299,300	1,319,752	10: 1,323,027
1,309,342	249: 1,315,977	41: 1,317,882	61: 1,324,748	1,326,838	13: 1,304,119
23: 1,312,389	255: 1,308,909	109: 1,303,692	68: 1,324,192	42: R. 14,726	1,307,590
1,323,337	272: 1,321,058	1,319,324	75: 1,296,696	1,296,368	15: 1,317,943
25: 1,326,256	274: 1,314,605	110: 1,323,808	78: 1,303,649	1,311,984	17: 1,315,615
26: 1,304,372	279: 1,323,388	111: 1,299,141	1,314,747	1,315,906	19: 1,296,623
27: 1,297,074	285: 1,310,616	1,301,852	1,325,322	1,322,406	20: 1,306,974
28: 1,325,406	301: 1,322,977	113: 1,322,537	79: 1,303,220	43: 1,298,846	1,314,361
29: 1,287,349	305: 1,314,527	127: 1,305,098	1,326,816	1,298,532	22: 1,297,843
30: 1,295,659	1,326,339	1,320,723	80: 1,304,706	1,297,803	23: 1,296,995
1,300,907	309: 1,310,339	128: 1,297,402	1,309,657	1,297,864	26: 1,322,146
32: 1,299,686	1,323,011	1,303,033	85: 1,290,209	1,301,806	29: 1,315,726
1,301,289	310: 1,306,983	1,324,956	1,307,298	1,309,796	1,318,656
1,305,960	312: 1,320,877	58— 5: 1,300,372	1,314,737	1,317,036	30: 1,316,392
1,324,549	319: 1,302,768	13: 1,292,581	88: 1,326,395	44: 1,294,894	35: 1,323,884
33: 1,291,393	320: 1,311,016	1,300,309	91: 1,305,897	1,303,745	39: 1,298,101
1,295,925	330: 1,314,999	1,302,845	92: 1,305,673	1,306,596	41: 1,294,814
1,302,325	1,316,265	1,304,924	95: 1,305,909	1,306,777	42: 1,326,364
1,303,606	1,323,928	1,319,045	97: 1,296,718	1,307,045	44: 1,298,742
1,312,432	335: 1,307,417	14: 1,305,596	1,313,372	1,314,175	44: 1,292,159
34: 1,322,987	1,308,677	17: 1,299,077	1,322,523	1,308,732	46: 1,306,370
36: 1,293,857	338: 1,309,712	1,323,781	46: 1,294,746	1,297,682	47: 1,297,682
37: 1,314,591	344: 1,311,407	19: 1,295,876	1,315,528	1,312,231	1,312,231
38: 1,312,010	349: 1,318,296	1,311,424	60— 1: 1,313,278	48: 1,299,563	1,312,689
43: 1,306,086	358: 1,309,861	24: 1,298,000	3: 1,324,158	1,319,992	48: 1,299,366
44: 1,306,242	359: 1,306,462	1,310,372	4: 1,294,120	1,324,607	1,300,606
1,308,162	362: 1,319,930	1,310,373	5: 1,294,372	49: 1,298,070	1,317,606
1,319,131	375: 1,310,573	1,310,374	8: 1,292,223	52: 1,298,979	49: 1,318,097
1,319,132	378: 1,323,460	1,310,375	1,303,897	1,307,839	50: 1,320,720
45: 1,317,212	394: 1,303,899	1,310,779	1,304,238	53: 1,292,091	1,290,867
59: 1,313,004	400: 1,326,097	1,310,780	1,318,469	1,294,121	1,294,808
1,316,712	402: 1,323,678	1,310,781	11: 1,303,781	1,297,347	1,296,628
61: 1,293,517	405: 1,320,406	1,310,784	13: 1,308,373	1,297,733	59: 1,290,371
1,295,520	415: 1,316,362	1,310,785	1,309,549	1,297,734	63: 1,320,750
1,296,644	423: 1,306,703	1,310,786	1,310,682	1,298,178	65: 1,296,682
1,300,188	424: 1,311,484	1,310,787	1,319,100	1,299,751	66: 1,315,800
1,304,307	427: 1,324,031	1,310,788	1,321,964	1,307,819	67: 1,293,046
1,306,597	447: 1,307,246	1,310,789	1,322,577	1,307,917	1,308,550
66: 1,290,922	449: 1,302,644	1,313,305	14: 1,297,263	1,308,944	1,308,944
1,299,875	466: 1,326,192	1,302,604	1,302,582	1,309,518	1,316,631
1,310,133	472: 1,301,717	1,302,605	1,306,979	1,310,945	1,320,180
68: 1,290,364	475: 1,322,193	1,325,823	1,310,253	1,312,701	69: 1,299,121
69: 1,297,907	2: 1,319,616	27: 1,302,603	1,315,508	1,313,415	1,302,081
70: 1,293,706	9: 1,290,127	1,313,304	1,319,679	1,316,164	1,313,838
71: 1,295,338	1,290,642	29: 1,325,862	1,324,183	1,317,719	1,321,383
1,313,057	1,291,437	31: 1,310,783	15: 1,296,555	1,318,143	1,321,562
1,313,443	1,294,103	32: 1,310,782	1,296,556	1,320,485	70: 1,307,921
78: 1,294,133	1,294,320	38: 1,322,216	1,297,068	1,321,086	1,324,747
79: 1,309,568	1,294,440	41: 1,296,048	1,311,858	1,321,871	74: 1,310,272
1,320,917	1,294,440	1,299,116	1,320,241	1,298,990	1,320,688
81: 1,294,233	1,295,018	1,301,499	1,321,690	1,304,566	76: 1,310,408
93: 1,311,347	1,295,163	1,310,023	1,325,810	1,308,170	77: 1,298,379
99: 1,293,460	1,295,492	1,312,946	16: R. 14,766	1,316,599	80: 1,293,093
1,293,588	1,296,079	42: 1,300,262	1,291,805	1,323,095	82: 1,321,302
1,295,888	1,298,064	46: 1,301,919	1,298,063	1,323,577	1,296,312
1,296,236	1,298,723	48: 1,300,113	1,298,455	57: 1,293,518	1: 1,314,773
1,298,923	1,299,392	52: 1,320,520	1,298,557	59: 1,292,731	4: 1,302,596
1,300,168	1,300,566	54: 1,308,947	1,299,370	1,297,363	1,325,756
1,302,243	1,302,028	56: 1,292,043	1,312,402	1,306,865	5: 1,324,610
				1,326,092	6: 1,325,128

## Classification of patents—Continued.

62—	7: 1,323,105	64—	8: 1,299,669	64—	24: 1,303,933	64—	38: 1,304,220	64—	64: 1,295,054	64—	96: 1,322,128
	8: 1,299,961		1,300,910		1,304,231		1,324,638		1,297,928		1,323,046
	19: 1,290,548		1,305,077		1,307,564		1,294,183		1,303,986		1,323,423
	1,305,772		1,305,526		1,307,696		1,296,827		1,306,875		1,324,523
	1,308,086		1,314,580		1,309,013		1,298,697		1,308,100		1,324,890
	1,322,051		1,319,160		1,309,113		1,300,590		1,310,556		1,325,247
37: 1,295,507			1,324,952		1,311,247		1,301,527		1,316,124		1,325,545
	1,309,151	10: 1,290,180			1,313,507		1,302,825		1,317,791	97: 1,316,903	
42: 1,292,573		1,291,021			1,313,736		1,304,430		1,317,792	101: 1,291,418	
46: 1,293,721		1,291,838			1,315,677		1,316,652		1,317,793	102: 1,290,825	
59: 1,296,005		1,292,791			1,316,655		1,321,874		1,318,710		
	1,300,432	1,292,906			1,316,707		1,325,153		1,319,441		
72: 1,299,175		1,293,792			1,320,703		1,309,284	45: 1,309,284	1,320,722		
77: 1,313,552		1,294,848			1,323,474		1,309,921	1,309,921	1,323,903		
90: 1,302,726		1,297,111			1,325,599		1,293,082	48: 1,293,082	1,290,213	65: 1,290,213	
	1,303,862	1,297,658		25: 1,290,234		1,291,399	1,294,017	1,298,059	1,290,312	1,290,312	
91: 1,311,990		1,298,100		1,293,471		1,295,490	1,301,356	1,302,872	1,298,137	1,298,137	
95: 1,324,868		1,299,354		1,295,974		1,298,211	1,307,661	1,310,794	1,300,405	1,300,405	
110: 1,311,723		1,299,845		1,296,856		1,297,769	1,311,871	1,321,767	1,300,479	1,317,054	
114: 1,309,995		1,303,616		1,298,630		1,301,664	1,321,767	1,323,769	1,308,640	1,317,344	
115: 1,296,012		1,305,815		1,306,387		1,309,763	1,321,577	1,323,769	1,314,014	1,319,295	
	1,305,425	1,308,467		1,308,968		1,310,229	1,325,459	1,300,385	1,320,122	1,323,023	
	1,313,363	1,309,467		1,312,269		1,313,466	1,297,717	1,300,385	1,296,871	1,323,451	
	1,315,282	1,310,684		1,313,466		1,314,001	1,299,317	1,300,766	1,300,822	1,324,479	
	1,325,211	1,311,638		1,314,748		1,315,069	1,300,766	1,320,836	1,304,285	1,324,480	
116: 1,296,686		1,311,734		1,325,553		1,312,683	1,322,034	1,307,029	1,306,513	1,302,701	
	1,296,878	1,312,269		1,325,849		1,322,252	1,307,029	1,311,527	1,322,808	1,322,119	
	1,296,879	1,313,466		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,307,431	1,314,001		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,312,600	1,314,748		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,312,932	1,315,069		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,314,233	1,317,018		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
117: 1,297,318		1,320,065		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
118: 1,290,455		1,321,379		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,293,469	1,322,332		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,314,779	1,323,281		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,325,868	1,324,375		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
126: 1,318,221		1,324,516		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
131: 1,300,705		1,325,387		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
136: 1,295,724		1,325,553		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,302,431	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
139: 1,301,794		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
141: 1,303,990		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
142: 1,297,760		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,308,812	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,325,427	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
159: 1,293,648		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,301,550	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
164: 1,299,800		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
170: 1,321,343		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
172: 1,297,633		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,321,954	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,322,660	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
175: 1,292,958		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,302,430	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,322,251	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
178: 1,291,334		1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,321,230	1,325,849		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
63—	1: 1,312,055	12: 1,307,166		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	4: 1,319,201	13: 1,290,551		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	11: 1,310,859	14: 1,291,461		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	12: 1,324,808	1,299,950		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	14: 1,296,552	1,300,556		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,304,986	1,300,557		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
15: 1,307,398		1,300,558		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,308,894	1,300,559		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,325,840	1,300,560		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
16: 1,296,435		1,304,401		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
20: 1,305,017		1,306,623		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
21: 1,314,803		1,309,729		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
24: 1,323,333		1,310,955		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
26: 1,293,028		1,311,969		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,308,011	1,320,046		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,313,052	1,323,662		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,319,251	1,324,372		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
28: 1,322,062		1,324,373		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,325,315	1,324,374		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
29: 1,317,237		1,324,376		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
31: 1,309,647		1,324,377		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
32: 1,291,506		1,324,378		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	4: 1,293,472	1,324,379		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,297,787	1,292,799		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,301,464	1,303,445		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,303,952	1,308,035		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,309,474	1,314,190		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,310,214	1,315,669		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,311,095	1,320,089		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,313,155	1,324,804		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,319,014	1,326,128		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,318,733	1,295,598		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
5: 1,293,264		1,321,184		1,325,849		1,322,611	1,311,527	1,318,407	1,322,808	1,323,850	
	1,301,026	1,322,055		1,325,849		1,322,611					



## Classification of patents—Continued.

65—	61: 1,293,244 1,295,425 1,299,120 1,303,171 1,307,908 1,311,669 1,316,122 1,293,069 65: 1,300,008 1,304,628 1,305,777 1,309,608 1,312,396 1,321,048 1,323,838 1,323,924 66: 1,293,292 1,293,294	67—	23: 1,292,195 1,296,682 1,302,399 1,315,087 1,315,872 1,316,108 1,316,624 24: 1,308,215 27: 1,299,537 28: 1,295,342 29: 1,307,220 30: 1,308,334 33: 1,315,118 36: 1,293,507 1,299,977 1,311,569 38: 1,290,107 1,291,547 1,312,478 48: 1,303,122 50: 1,303,462 63: 1,310,991 65: 1,313,059 1,326,244 66: 1,306,101 1,316,863 69: 1,323,215 70: 1,291,377 72: 1,297,887 1,309,089 1,311,823 74: 1,309,548 75: 1,296,413 77: 1,295,808 1,297,650 78: 1,306,010 79: 1,314,121 87: 1,295,313 89: 1,311,324 1,312,046 90: 1,315,817 94: 1,302,901 1,304,273 1,304,807 1,316,014 1,320,281 105: 1,296,506 1,296,507 111: 1,304,159 1,320,209 1,320,401 1,321,720 114: 1,321,656 115: 1,290,660 1,291,330 1,294,003 1,294,359 1,296,213 1,300,301 1,309,482 1,312,644 116: 1,295,495 1,304,221 1,308,684 1,326,550 117: 1,323,593 121: 1,296,625 1,319,782 1,320,843 68—	68—	10: 1,300,950 1,300,993 1,301,874 1,302,866 1,304,802 1,306,893 1,310,490 1,314,411 1,314,940 1,316,559 1,318,165 1,320,850 1,322,441 1,324,611 1,324,656 1,324,931 1,324,939 11: 1,290,238 1,317,803 12: 1,298,954 1,303,491 1,310,336 1,321,761 13: 1,321,542 15: 1,301,292 1,302,868 18: 1,291,936 1,295,421 1,295,830 1,296,823 1,301,055 1,304,470 1,307,919 1,309,411 1,309,412 1,312,393 1,312,431 1,318,981 1,321,155 1,321,381 19: 1,292,525 1,292,532 1,302,326 1,313,497 1,316,963 1,320,019 1,323,774 20: 1,297,107 21: 1,319,949 23: 1,290,151 1,292,143 1,297,071 1,301,179 24: 1,318,984 26: 1,292,510 1,298,210 1,313,124 27: 1,292,977 1,306,820 1,312,349 1,316,031 1,317,970 28: 1,324,589 29: 1,290,349 1,293,613 1,302,991 1,311,624 1,314,297 1,324,794 1,326,018 30: 1,291,347 1,292,833 1,293,411 1,298,264 1,299,135 1,309,955 1,310,734 1,312,062 1,324,696 1,324,836 1,325,483 31: 1,320,329 32: R. 14,683 1,295,580 1,307,217 1,308,868 1,315,613 1,316,601 1,320,061 1,322,369 1,322,437 33: 1,323,348 34: 1,310,424 1,318,250 1,326,059 1,326,808 37: 1,292,780 1,294,682 1,300,031 1,326,636 69—	69—	1: 1,304,582 7: 1,295,152 8: 1,326,826 1,326,827 1,326,828 9.5: 1,301,283 1,318,343 1,319,293 1,322,094 10: 1,323,626 13: 1,302,151 1,318,341 1,326,317 14: 1,321,176 15: 1,319,301 16: 1,294,594 1,308,776 1,326,350 17: 1,293,157 19: 1,310,551 21: 1,309,461 95: 1,305,863 70—	70—	29: 1,312,219 1,313,920 1,316,326 1,316,328 1,316,446 1,325,346 1,326,173 31: 1,301,789 1,320,444 42: 1,294,612 1,297,221 1,298,861 1,300,530 1,300,991 1,302,063 1,304,244 1,304,245 1,305,619 1,306,386 1,310,050 1,310,600 1,312,199 1,318,626 44: 1,294,227 1,314,268 1,314,402 1,326,554 45: 1,293,911 1,314,963 46: 1,290,489 1,297,757 1,297,758 1,298,224 1,300,844 1,300,845 1,303,825 1,304,105 1,305,469 1,308,459 1,308,734 1,309,438 1,309,439 1,309,918 1,310,834 1,316,327 1,318,847 1,322,697 1,322,728 47: 1,294,208 1,301,466 1,316,329 1,326,270 49: 1,290,145 1,290,283 1,292,552 1,292,553 1,294,406 1,299,066 1,299,460 1,301,260 1,302,846 1,307,229 1,308,779 1,309,645 1,315,991 1,316,595 1,318,287 1,319,187 1,321,540 1,321,927 50: 1,300,319 1,300,320 1,304,453 1,312,895 1,323,741 53: 1,290,631 1,296,538 1,297,616 1,299,177 1,301,846 1,302,896 1,305,681 1,305,959 1,308,090 1,308,521 1,310,704 1,312,376 1,321,605 1,323,709 1,326,191 23: 1,317,805 1,326,761 24: R. 14,714 1,317,424 1,327,025 1,297,284 1,307,395 1,311,258 1,312,601 1,321,605 1,323,709 1,326,099 28: 1,301,153 1,307,789 1,312,051 1,312,479 1,322,272 1,322,883 1,324,428 1,326,193 29: 1,306,819 1,309,300	70—	53: 1,325,510 1,325,641 1,326,175 1,326,270 54: 1,291,270 1,300,020 1,308,298 1,316,934 55: 1,304,633 60: 1,300,711 1,310,265 63: 1,298,177 64: 1,299,195 1,300,719 1,301,326 1,302,873 1,312,498 65: 1,293,616 1,297,168 1,300,489 1,307,496 1,314,526 1,321,074 72: 1,295,450 74: 1,294,399 1,294,949 1,297,427 1,301,979 1,302,863 1,317,820 1,325,622 75: 1,290,612 1,299,859 1,301,451 1,320,919 76: 1,320,028 79: 1,307,712 80: 1,312,970 1,323,527 82: 1,298,272 1,300,570 1,300,796 1,301,749 1,310,286 1,311,606 1,312,078 1,316,327 83: 1,321,461 1,322,697 1,293,483 1,309,748 1,312,931 1,313,969 1,318,800 1,319,498 1,321,783 1,322,105 85: 1,308,325 87: 1,313,147 90: 1,291,076 1,292,486 1,292,822 1,294,754 1,296,987 1,301,498 1,301,576 1,302,502 1,304,785 1,305,563 1,305,786 1,306,143 1,307,001 1,307,161 1,309,351 1,311,404 1,312,354 1,314,329 1,317,329 1,318,103 1,318,913 1,318,991 1,319,609 1,320,588 1,324,457 1,325,307 1,326,149 1,326,688 92: 1,317,828 93: 1,302,432 94: 1,311,500 97: 1,313,270 98: 1,315,649 99: 1,297,452 1,298,402 1,303,955 101: R. 14,649 102: 1,290,462 1,294,009 1,297,269 1,311,102 1,312,160 1,314,978 1,318,833 1,320,164
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## Classification of patents—Continued.

70— 102: 1,322,499 1,326,586 103: 1,315,568 105: 1,306,427 1,307,158 1,310,930 1,316,663 1,322,531 106: 1,300,037 108: 1,310,634 1,326,394 110: 1,308,458 111: 1,300,983 112: 1,293,879 1,308,319 1,316,037 113: 1,291,228 1,295,543 1,299,517 1,307,442 1,308,487 1,314,431 115: 1,290,445 1,296,343 1,310,774 1,310,775 1,312,854 1,324,341 1,325,806 1,326,037 116: 1,293,418 1,296,231 1,301,452 1,318,933 1,325,440 119: 1,291,886 1,292,310 1,298,266 1,299,596 1,311,982 1,323,783 120: 1,306,560 1,311,304 121: 1,305,659 123: 1,302,933 1,316,412 124: 1,317,510 126: 1,290,752 1,293,236 1,293,362 1,294,668 1,294,669 1,296,026 1,296,397 1,296,398 1,296,526 1,298,408 1,299,954 1,305,016 1,312,247 1,316,407 1,316,587 1,317,191 1,317,547 1,318,040 1,318,443 1,320,415 1,325,872 1,325,887 1,326,404 127: 1,316,868 128: R. 14, 628 1,290,751 1,290,938 1,291,617 1,292,328 1,292,548 1,295,343 1,295,400 1,298,745 1,305,178 1,307,354 1,309,361 1,309,925 1,310,534 1,310,577 1,311,744 1,312,204 1,312,728 1,312,977 1,313,412 1,314,713 1,315,949 1,316,450 1,317,053 1,319,495 1,321,216 1,323,447 1,325,178 129: 1,290,106 1,292,114 1,295,810 1,296,086	70— 129: 1,296,382 1,297,038 1,298,853 1,300,348 1,300,505 1,300,735 1,300,804 1,300,820 1,303,354 1,304,516 1,318,842 1,320,771 1,321,190 1,322,736 1,324,823 130: 1,291,291 1,295,689 1,300,125 1,317,315 131: 1,293,258 1,294,502 1,312,435 1,313,891 1,314,426 1,319,305 1,320,800 132: 1,303,800 178: 1,302,976 179: 1,305,212 71— 1: 1,307,508 1,321,006 6: 1,298,960 1,313,162 1,313,163 1,320,405 7: 1,292,293 1,293,220 1,310,080 1,316,396 1,326,533 9: 1,293,029 1,304,082 1,308,453 1,322,817 10: R. 14, 686 1,294,080 1,309,723 1,320,701 72— 1: 1,293,377 1,293,378 1,307,504 1,312,968 1,317,471 2: 1,318,827 6: 1,292,472 1,295,341 1,298,174 1,311,366 1,314,644 1,316,982 1,320,989 1,321,797 7: 1,324,518 7.1: 1,307,366 10: 1,305,692 13: 1,301,154 1,301,155 1,307,432 14: 1,313,819 15: 1,318,861 1,318,870 1,321,728 16: 1,312,309 1,316,812 1,317,137 1,319,336 18: 1,306,246 1,326,054 19: 1,302,322 24: 1,305,492 25: 1,297,906 30: 1,297,151 1,302,728 1,307,779 1,309,064 1,319,731 1,325,079 33: 1,320,880 37: 1,304,267 1,317,782 1,318,828 38: 1,295,919 1,316,307 1,329,647 39: 1,291,205 1,294,224 1,294,225 1,297,960 1,298,025 1,298,026 1,298,180 1,300,765 1,304,552	72— 39: 1,307,797 1,311,069 1,318,140 1,322,827 1,323,512 1,323,513 1,323,514 1,294,509 1,306,781 1,308,306 41: 1,290,287 1,290,589 1,290,740 1,293,491 1,294,905 1,296,527 1,302,667 1,305,294 1,310,220 1,317,183 1,319,019 1,319,113 1,322,646 1,325,249 1,326,617 42: 1,305,230 46: 1,301,110 1,325,824 49: 1,299,373 50: 1,307,224 1,324,027 1,325,063 51: 1,291,160 1,296,559 1,299,884 1,320,313 52: 1,298,021 1,301,024 1,322,390 53: 1,292,992 1,293,163 1,293,898 1,301,010 1,302,553 1,310,567 1,325,678 56: 1,303,741 60: 1,295,918 63: 1,318,717 1,319,879 65: 1,290,804 66: 1,291,326 1,307,031 1,311,082 1,313,500 1,314,553 1,316,136 1,318,995 1,320,186 1,321,213 1,322,004 1,324,517 68: 1,306,962 70: 1,307,179 71: 1,312,287 1,317,519 77: 1,310,462 82: 1,296,053 1,299,787 1,322,802 83: 1,292,012 84: 1,293,771 1,321,237 92: 1,297,652 96: 1,291,904 1,291,905 1,293,233 1,310,331 98: 1,295,204 100: 1,312,556 101: 1,296,342 1,301,668 1,302,727 1,304,219 1,308,419 1,311,635 1,323,067 102: 1,323,110 103: 1,304,651 105: R. 14, 652 1,302,609 1,311,646 1,314,854 1,318,584 1,318,680 1,324,846 107: 1,294,115 1,295,538 109: 1,300,835 1,304,586 110: 1,291,298 1,296,402 1,301,259	72— 110: 1,312,908 1,326,594 111: 1,311,864 1,315,661 1,317,824 113: 1,293,061 1,299,407 115: 1,294,064 1,307,814 116: 1,300,439 1,302,822 117: 1,294,278 1,299,425 1,309,241 1,309,242 1,314,777 1,320,332 118: 1,296,936 1,297,523 1,308,199 1,308,265 1,313,581 1,324,483 121: 1,298,357 1,308,773 1,308,889 122: 1,293,301 1,293,421 1,296,296 1,296,513 1,304,815 1,306,129 1,306,984 1,319,241 1,321,786 1,324,359 1,324,360 123: 1,300,493 1,310,591 124: 1,296,525 1,298,411 1,301,828 1,317,158 128: 1,300,000 1,316,061 130: R. 14, 721 1,297,082 134: 1,325,820 136: 1,295,735 1,297,541 1,298,386 1,307,939 1,321,532 137: 1,294,543 1,313,462 138: 1,292,558 1,296,325 1,310,639 73— 1: 1,293,965 1,301,041 1,305,646 1,305,800 1,305,883 1,306,217 1,306,218 1,306,219 1,306,220 1,306,659 2: 1,311,798 4: 1,315,858 15: 1,297,738 24: 1,293,527 28: 1,303,820 1,312,095 30: 1,300,116 1,292,418 1,301,182 1,301,983 31: 1,303,425 1,304,259 1,311,905 1,320,484 1,323,531 32: 1,291,409 1,294,688 1,304,277 1,307,528 1,312,951 1,318,516 37: 1,304,607 51: 1,292,280 1,293,984 1,296,605 1,296,606 1,296,607 1,296,608 1,296,609 1,296,610 1,296,699 1,297,113 1,297,508 1,298,236 1,298,416	73— 51: 1,298,890 1,300,494 1,301,241 1,304,208 1,304,592 1,306,657 1,306,658 1,306,660 1,309,702 1,310,396 1,311,228 1,313,493 1,314,422 1,316,549 1,318,362 1,321,308 1,323,030 1,324,418 1,325,747 52: 1,293,786 1,294,165 1,294,846 1,298,075 1,299,339 1,301,910 1,306,396 54: R. 14, 728 1,294,568 1,294,939 1,299,027 1,301,921 1,302,045 1,306,167 1,307,225 1,307,982 1,316,846 1,316,847 1,318,013 1,324,046 62: 1,303,526 82: 1,290,274 1,290,814 1,295,037 1,304,069 1,306,557 1,307,546 1,308,620 1,308,905 1,314,983 98: 1,317,273 109: 1,290,375 1,315,327 1,322,463 1,324,988 110: 1,290,875 1,291,901 1,296,947 1,303,018 1,310,648 1,322,782 111: 1,306,245 1,306,575 1,309,517 1,312,457 1,319,138 1,322,884 118: 1,326,386 119: 1,298,054 1,312,834 1,325,547 122: 1,293,343 1,307,624 1,314,718 1,318,405 1,323,119 137: 1,299,861 151: 1,297,416 1,309,574 1,310,940 165: 1,290,553 1,324,204 166: 1,304,265 167: 1,291,489 1,295,046 1,296,041 1,298,471 1,298,532 1,299,539 1,299,540 1,303,073 1,303,443 1,304,920 1,305,803 1,306,405 1,307,337	73— 167: 1,398,569 1,398,626 1,310,739 1,311,861 1,311,922 1,314,249 1,319,380 1,321,546 1,325,040 1,325,514 168: 1,300,313 1,300,314 1,308,882 1,313,149 169: 1,321,862 176: 1,291,707 177: 1,306,052 178: 1,308,855 1,312,902 1,319,478 180: 1,296,920 181: 1,296,921 183: 1,300,274 1,315,675 74— 1: 1,294,125 1,302,024 1,306,419 1,312,328 1,314,322 1,316,197 1,316,780 1,321,743 1,326,176 5: 1,293,593 1,293,608 1,293,609 1,295,005 1,297,576 1,301,854 1,303,000 1,304,190 1,306,119 1,307,167 1,307,704 1,309,917 1,310,090 1,310,365 1,314,497 1,315,059 1,315,985 1,318,599 1,326,024 6: 1,296,732 1,303,428 1,305,150 1,305,978 1,313,039 1,314,005 1,314,575 1,315,058 1,325,057 7: 1,291,761 1,292,185 1,292,694 1,292,818 1,293,047 1,293,123 1,294,755 1,295,217 1,296,212 1,296,256 1,297,003 1,297,289 1,297,462 1,297,465 1,298,074 1,298,110 1,298,461 1,299,323 1,299,418 1,299,419 1,299,778 1,299,779 1,301,224 1,301,800 1,302,963 1,303,287 1,304,033 1,304,081 1,304,241 1,304,400 1,304,993 1,305,103 1,305,111 1,305,452 1,305,453 1,305,454 1,305,531 1,305,977 1,306,125 1,306,157 1,306,531 1,306,653 1,306,806
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## Classification of patents—Continued.

74—	7: 1,306,864 1,307,101 1,307,231 1,308,520 1,308,752 1,309,010 1,309,239 1,309,451 1,309,722 1,309,789 1,310,009 1,310,091 1,310,092 1,310,093 1,310,558 1,311,343 1,311,847 1,312,618 1,312,709 1,312,740 1,312,876 1,313,247 1,314,403 1,314,701 1,315,911 1,315,924 1,316,057 1,317,298 1,318,209 1,318,409 1,318,410 1,319,408 1,319,519 1,319,655 1,320,459 1,320,645 1,320,773 1,320,956 1,320,979 1,321,293 1,321,430 1,321,804 1,321,898 1,322,325 1,322,351 1,322,392 1,322,814 1,323,166 1,323,384 1,323,985 1,324,040 1,325,958 1,326,857	74—	14: 1,293,278 1,293,556 1,294,325 1,295,029 1,295,756 1,296,865 1,297,101 1,297,156 1,297,385 1,298,506 1,299,341 1,299,919 1,300,312 1,302,315 1,303,196 1,304,854 1,306,104 1,306,821 1,306,932 1,308,832 1,309,257 1,309,564 1,309,842 1,309,843 1,310,561 1,310,760 1,314,696 1,315,380 1,315,627 1,316,317 1,317,365 1,317,914 1,317,917 1,319,212 1,319,346 1,320,257 1,322,333 1,323,392 1,323,497 1,323,536 1,323,667 1,323,668 1,323,851 1,323,972 1,325,449 1,326,238 1,326,731 16: 1,306,803 1,308,332 1,314,735 17: 1,291,237 1,291,743 1,291,929 1,293,595 1,297,830 1,301,094 1,301,370 1,301,883 1,303,498 1,304,121 1,305,194 1,307,454 1,308,499 1,308,992 1,309,220 1,312,280 1,313,684 1,314,717 1,315,653 1,318,704 1,318,705 1,322,824 1,326,421 21: 1,290,894 1,292,995 1,297,220 1,299,324 1,302,222 1,305,953 1,315,041 1,319,100 1,321,047 1,291,542 1,291,654 1,291,728 1,291,768 1,293,541 1,293,622 1,293,641 1,294,261 1,295,131 1,295,519 1,296,850 1,298,395 1,298,560 1,300,169 1,300,236 1,302,494 1,302,821 1,303,350 1,304,484 1,305,208 1,305,871	74—	26: 1,308,556 1,309,277 1,311,592 1,315,970 1,317,815 1,317,916 1,318,588 1,319,087 1,320,194 1,320,519 1,321,945 1,326,189 27: 1,290,770 1,305,200 1,305,933 1,311,003 1,314,728 1,316,032 1,316,437 1,319,640 1,319,641 1,320,467 1,323,057 28: 1,297,835 1,308,160 1,309,837 1,310,899 1,312,252 1,312,818 1,317,232 1,323,962 1,325,778 29: 1,311,912 1,321,511 1,321,512 1,326,706 31: 1,292,242 1,307,202 1,313,116 1,314,757 32: 1,293,835 1,300,401 1,304,933 1,306,078 1,306,282 1,306,561 1,306,936 1,308,843 1,309,142 1,310,726 1,326,171 33: R 14,684 1,292,256 1,294,885 1,295,640 1,298,151 1,298,263 1,300,384 1,300,676 1,301,548 1,303,928 1,304,867 1,306,603 1,307,960 1,309,123 1,311,130 1,311,394 1,312,410 1,314,078 1,314,741 1,314,995 1,315,261 1,317,730 1,319,418 1,319,875 1,320,254 1,320,557 1,321,876 1,322,519 1,323,680 1,324,697 1,324,711 1,324,782 1,325,341 1,325,564 34: R 14,698 1,290,184 1,290,473 1,291,560 1,292,260 1,292,384 1,292,954 1,293,190 1,295,800 1,296,532 1,296,533 1,296,534 1,297,092 1,297,094 1,297,439 1,297,599 1,298,401	74—	34: 1,299,156 1,299,513 1,299,629 1,299,700 1,299,765 1,300,225 1,300,474 1,301,592 1,302,576 1,302,775 1,303,660 1,304,052 1,304,990 1,305,371 1,305,616 1,306,330 1,307,474 1,307,488 1,310,711 1,311,236 1,311,310 1,315,962 1,316,564 1,316,740 1,316,826 1,317,272 1,318,360 1,320,530 1,322,965 1,323,031 1,323,245 1,323,299 1,323,613 1,324,472 1,324,945 35: 1,310,530 1,316,936 1,320,460 36: 1,292,239 1,293,629 1,297,238 1,298,653 1,299,593 1,300,624 1,301,180 1,301,657 1,306,721 1,307,462 1,309,902 1,310,329 1,313,255 1,313,776 1,315,115 1,315,286 1,315,456 1,316,966 1,318,648 1,318,770 1,320,372 1,322,599 1,324,384 1,324,788 37: 1,292,530 1,297,093 1,297,531 1,302,680 1,304,254 1,306,899 1,310,617 1,311,936 1,315,452 1,316,100 1,317,503 38: 1,300,531 1,312,987 1,313,737 39: 1,290,454 1,294,317 1,294,783 1,300,619 1,301,475 1,302,044 1,302,593 1,303,653 1,304,315 1,304,317 1,304,783 1,305,063 1,307,497 1,308,495 1,308,990 1,310,302 1,313,253 1,314,678 1,315,511 1,316,128 1,316,433 1,317,029 1,320,339 1,321,012 1,321,087 1,321,164 1,322,692	74—	39: 1,323,403 1,323,661 1,324,757 1,326,041 1,326,281 40: 1,300,047 1,301,531 1,310,752 1,312,942 1,312,989 41: R 14,700 1,295,231 1,295,807 1,297,647 1,298,259 1,298,816 1,300,786 1,311,943 1,312,704 1,313,035 1,316,270 1,316,427 1,318,372 1,318,373 1,324,287 1,324,473 1,325,892 42: 1,321,686 43: 1,296,974 44: 1,313,871 45: 1,290,138 1,290,712 1,293,939 1,303,460 1,304,062 1,304,234 1,304,657 1,305,745 1,310,170 1,315,875 1,316,466 1,318,916 1,321,179 1,321,195 1,324,346 1,325,673 46: R 14,718 1,290,115 1,291,136 1,291,402 1,291,426 1,291,549 1,291,796 1,291,885 1,292,214 1,293,268 1,294,626 1,294,955 1,294,959 1,295,164 1,295,447 1,295,827 1,296,798 1,297,623 1,298,056 1,298,066 1,298,566 1,298,567 1,298,568 1,298,758 1,298,826 1,298,939 1,298,956 1,300,203 1,301,849 1,301,905 1,302,650 1,303,125 1,303,214 1,304,233 1,305,181 1,305,205 1,305,461 1,307,014 1,308,447 1,308,775 1,309,246 1,309,631 1,309,741 1,310,018 1,310,484 1,310,772 1,311,655 1,311,939 1,314,675 1,315,877 1,315,974 1,315,980 1,316,138 1,316,700 1,317,236 1,317,458 1,319,078	74—	46: 1,319,171 1,319,172 1,320,577 1,321,118 1,321,607 1,322,041 1,322,134 1,322,356 1,322,534 1,323,179 1,323,727 1,324,095 1,324,190 1,324,367 1,324,907 1,325,119 1,325,648 1,326,066 1,326,102 1,326,668 47: 1,296,835 1,298,424 1,318,811 48: 1,293,389 1,299,028 1,300,240 1,313,764 1,323,391 50: 1,294,448 1,296,100 1,298,899 1,299,925 1,305,716 1,308,104 1,309,410 1,318,507 1,321,066 1,321,902 1,322,7 1,324,280 1,326,190 51: 1,313,267 1,313,829 1,318,796 1,326,439 53: 1,290,264 1,290,737 1,291,642 1,292,099 1,296,162 1,296,345 1,296,726 1,299,678 1,301,530 1,310,114 1,310,115 1,318,169 54: 1,290,507 1,290,599 1,291,721 1,295,284 1,296,637 1,296,787 1,296,870 1,300,049 1,300,375 1,300,466 1,300,477 1,301,901 1,301,982 1,302,637 1,303,675 1,304,606 1,304,996 1,306,349 1,312,787 1,313,618 1,316,922 1,318,462 1,320,657 1,321,057 55: 1,298,947 1,307,026 1,315,519 1,314,595 1,291,009 1,292,265 1,295,221 1,310,018 1,298,652 1,299,944 1,300,032 1,300,936 1,301,947 1,302,196 1,304,751 1,304,866 1,305,137 1,306,695 1,308,923 1,312,210 1,314,436
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## Classification of patents—Continued.

74— 56: 1,316,579 1,316,956 1,317,297 1,318,856 1,319,152 1,321,575 1,321,609 1,322,970 1,323,443 1,325,661 1,325,816 1,326,202 1,326,844	74— 62: 1,309,066 1,309,245 1,321,110 1,325,788 1,326,565 63: 1,307,731 1,321,330 1,322,067 1,326,656 64: 1,312,580 1,313,028 1,313,171 1,316,747 65: 1,302,330 69: 1,290,116 1,290,643 1,294,467 1,295,065 1,304,311 1,304,333 1,310,500 1,311,184 1,313,763 1,313,877 1,314,266 1,318,749 1,320,060 1,324,338 70: 1,296,862 1,309,377 1,317,798 1,319,008 71: 1,290,493 1,323,568 1,325,616 76: 1,317,322 78: 1,291,031 1,291,695 1,294,697 1,296,137 1,296,164 1,296,331 1,308,683 1,308,693 1,308,783 1,309,409 1,309,489 1,309,591 1,309,592 1,309,636 1,309,637 1,310,862 1,311,509 1,311,716 1,311,768 1,312,085 1,313,828 1,318,302 1,324,128 1,324,477 1,324,478 1,324,482 79: 1,290,159 1,291,017 1,296,251 1,296,927 1,297,095 1,297,421 1,299,532 1,300,886 1,301,137 1,312,708 1,319,159 1,319,294 1,320,278 1,323,815 1,326,282 81: 1,290,175 1,292,760 1,293,101 1,293,841 1,294,952 1,295,225 1,295,226 1,295,380 1,295,795 1,296,837 1,297,202 1,298,271 1,300,768 1,301,580 1,302,112 1,302,837 1,303,956 1,304,605 1,305,143 1,306,081 1,307,794 1,308,559 1,308,700 1,309,347 1,309,557 1,310,186	74— 81: 1,311,400 1,312,384 1,313,362 1,314,210 1,314,418 1,314,844 1,316,180 1,316,416 1,316,727 1,317,396 1,318,100 1,319,050 1,320,561 1,320,585 1,321,615 1,322,244 1,322,961 1,325,430 1,326,377 82: 1,317,081 1,319,027 83: 1,309,852 1,313,763 1,324,640 84: 1,302,757 1,303,728 1,310,512 1,315,513 85: 1,293,068 1,293,846 1,294,538 1,294,833 1,294,956 1,296,591 1,296,592 1,296,593 1,298,234 1,302,572 1,306,839 1,311,124 1,311,242 1,311,525 1,312,879 1,312,880 1,320,064 1,320,188 1,320,428 1,321,349 1,321,525 1,324,894 86: 1,304,615 1,321,525 1,324,894 87: 1,291,220 88: 1,303,436 1,316,320 91: 1,322,002 93: 1,301,214 1,302,876 1,311,346 1,315,434 95: 1,305,386 96: 1,320,768 97: 1,291,241 98: 1,291,069 1,293,505 1,314,025 1,316,146 1,319,906 99: 1,290,111 1,294,040 1,297,954 1,300,359 1,305,030 1,306,065 1,308,614 1,309,978 1,310,976 1,314,568 1,315,217 1,315,236 1,316,248 1,317,075 1,317,279 1,317,281 1,319,367 1,322,689 1,324,253 1,324,855 1,324,856 1,324,857 1,324,859 1,324,860 1,324,861 1,326,655 100: 1,308,290 1,317,286 1,324,858 1,325,938 101: 1,294,470 1,294,721 1,305,928 1,300,074 1,315,040	74— 101: 1,317,981 1,319,497 1,321,491 1,323,772 1,325,234 1,325,884 103: 1,297,962 1,297,963 1,304,103 1,304,640 1,305,302 1,307,961 1,313,530 1,324,062 1,290,564 1,294,460 1,308,751 1,310,464 1,310,948 1,312,566 1,316,043 1,316,678 105: 1,301,042 1,301,567 1,305,763 1,309,527 1,311,080 1,314,750 1,321,603 106: R. 14, 609 1,293,732 1,294,539 1,302,147 1,305,760 1,306,448 1,307,269 1,309,481 1,310,268 1,311,339 1,319,030 1,320,474 1,322,630 1,322,935 1,326,229 107: 1,325,018 108: 1,322,748 1,325,176 109: 1,321,539 1,322,294 1,323,192 1,324,272 361: 1,303,356 75— 1: 1,291,220 1,291,408 1,292,582 1,293,426 1,293,823 1,296,338 1,296,938 1,299,404 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	1,315,880			1,295,857	87:	1,319,771	1,309,658			1,312,917			1,298,305	
	1,315,881			1,303,396	88:	1,291,616	1,305,691			1,314,068			1,298,306	
	1,317,014			1,303,397		1,292,364	1,320,571			1,322,498			1,298,307	
	1,317,015			1,310,802		1,295,267	1,295,691			1,290,461			1,298,308	
	1,317,852			1,315,349		1,306,450	1,298,864			1,292,131			1,298,309	
	1,318,003			1,317,557		1,309,307	1,318,977			1,292,321			1,298,318	
	1,319,165			1,317,992		1,308,063	1,302,451			1,295,668			1,298,319	
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	1,291,170			1,326,559		1,323,157	1,319,919			1,309,762			1,304,889	
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	1,299,226			1,293,506	92:	1,294,740	1,309,116			1,324,453			1,313,627	
	1,299,262			1,295,814		1,298,510	1,302,511			1,326,544			1,313,642	
	1,301,683			1,296,445		1,298,971	1,325,294			1,326,581			1,319,772	
	1,302,697			1,297,080		1,303,334	1,298,862	105:	1,298,862	178:	1,290,436		1,323,040	
	1,305,685			1,297,081		1,303,594	1,296,414			1,291,670		2:	1,295,589	
	1,306,325			1,298,743		1,305,152	1,296,831			1,292,362			1,295,590	
	1,307,747			1,303,611		1,305,900	1,301,060			1,295,198			1,296,374	
	1,309,754			1,304,619		1,306,811	1,315,015	115:	1,315,015			2.4:	1,293,465	
	1,310,645			1,307,803		1,309,086	1,323,468			1,298,491			1,293,844	
	1,312,324			1,309,671		1,310,433	1,299,654	116:	1,299,654				1,295,734	
	1,312,545			1,312,207		1,310,837	1,307,052			1,303,451			1,302,324	
	1,312,664			1,314,124		1,315,370	1,304,997			1,308,159			1,304,065	
	1,312,867			1,314,390		1,315,729	1,312,495			1,312,495			1,304,885	
	1,313,011			1,317,942		1,320,802	1,304,700			1,324,700			1,304,886	
	1,313,729			1,318,282		1,324,650	1,325,912			1,325,912			1,304,887	
	1,314,135			1,321,082	84—	1,311,752	1,320,532			1,300,244			1,305,000	
	1,314,194			1,321,460		1,300,382	1,306,847	117:	1,296,284	12:	1,304,344	2.5:	1,291,119	
	1,314,547			1,321,890		1,308,903	1,312,209	121:	1,291,903		1,318,975	3:	1,291,541	
	1,318,264			1,322,289		1,317,219	1,310,472			1,308,110			1,307,418	
	1,319,309			1,322,575		1,319,625	1,314,823			1,311,663			1,311,038	
	1,319,665			1,322,854	8:	1,291,966	1,314,548	124:	1,291,548		1,314,578		1,320,622	
	1,319,925			1,323,434		1,298,595	1,312,882			1,324,779			1,320,623	
	1,321,773			1,324,257		1,317,065	1,301,147	125:	1,312,882		1,325,066		1,326,663	
	1,325,505			1,324,960	10:	1,290,823	1,307,259			1,304,344	198:			
57:	1,310,526			1,325,708		1,293,599	1,325,313			1,318,975				
	1,313,984		75:	1,295,388		1,305,942	1,291,568	128:	1,291,568	199:	1,314,189		1,301,558	
58:	1,315,407			1,308,526		1,309,082	1,295,548	131:	1,295,548	218:	1,322,795		1,316,857	
	1,317,941			1,311,117		1,319,994	1,323,198			226:	1,301,267		1,325,036	
	1,324,588			1,319,790	79:	1,319,790	1,326,842	133:	1,304,914	233:	1,302,647	5:	1,322,246	
	1,296,737			1,312,429	80:	1,312,429	1,300,878			1,307,297		7:	1,304,575	
60:	1,290,525			1,292,237	81:	1,292,237	1,295,759			1,308,736		8:	1,313,748	
	1,290,597			1,297,372		1,301,061	1,307,501	135:	1,296,385		1,314,163		1,310,909	
	1,290,725			1,298,310		1,301,062	1,305,829			1,324,701	243:	1,312,386	8:	1,310,909
	1,291,190			1,298,577		1,305,372	1,311,765			1,312,386		9:	1,297,222	
	1,292,983			1,306,188	16:	1,319,188	1,315,999			1,320,317			1,298,398	
	1,293,330			1,314,370		1,319,801	1,296,183	146:	1,296,183	85—	1,303,293	10:	1,312,099	
	1,294,262			1,314,797	17:	1,323,571	1,301,059			1,321,227	1:	1,306,100	10:	1,313,795
	1,294,757			1,316,911		1,297,011	1,293,923	150:	1,293,923		1,317,808	11:	1,290,173	
	1,295,058			1,317,790		1,296,725	1,293,997			1,321,742			1,295,268	
	1,297,054		82:	1,294,603		1,302,355	1,293,997			1,291,782	1.5:	1,291,782	12:	1,324,795
	1,297,597			1,294,759		1,306,482	1,324,274			1,291,783			1,297,611	
	1,298,626			1,294,864		1,308,348	1,324,275			1,291,784			1,320,303	
	1,298,926			1,297,911		1,308,555	1,324,277			1,291,785			1,325,721	
	1,300,234			1,304,077		1,311,123	1,293,024	156:	1,293,024		1,291,786	16:	1,320,901	
	1,300,675			1,306,361		1,320,506	1,305,976			1,291,787			1,325,721	
	1,305,223			1,307,626		1,323,958	1,307,350	160:	1,307,350		1,291,788	19:	1,318,315	
	1,306,053			1,312,028		1,324,831	1,312,194			1,291,789			1,301,173	
	1,306,633			1,313,714	20:	1,295,672	1,302,172			1,291,790			1,303,002	
	1,306,931			1,319,208		1,314,327	1,312,195			1,292,835			1,320,085	
	1,308,303			1,320,302	22:	1,323,436	1,312,196			1,293,366		23:	1,294,570	
	1,308,963			1,321,528	23:	1,313,711	1,313,196			1,293,367		24:	1,295,328	
	1,310,543			1,322,487	25:	1,294,866	1,313,625			1,293,368		28:	1,298,015	
	1,314,424			1,323,174	26:	1,296,826	1,317,572			1,293,369			1,302,588	
	1,314,467			1,324,791		1,301,908	1,321,654			1,293,370			1,306,279	
	1,314,826		83:	1,316,038		1,299,203	1,325,523			1,293,371			1,315,477	
	1,316,809		84:	R. 14,583		1,291,202	1,293,014	161:	1,293,014		1,293,372	32:	1,293,895	
	1,318,289			1,310,939		1,291,778	1,293,179			1,293,373			1,299,415	
	1,320,265			1,324,958		1,293,722	1,300,519			1,293,374			1,302,854	
	1,321,725		85:	1,290,166		1,293,723	1,303,250			1,293,375			1,309,616	
	1,321,971			1,290,515		1,301,916	1,306,207			1,293,376		35:	1,302,381	
	1,322,241			1,290,516		1,304,435	1,307,424			1,293,377			1,324,867	
	1,323,000			1,294,519		1,323,132	1,307,515			1,293,378			1,302,588	
	1,324,067			1,295,817		1,323,390	1,311,045			1,293,379			1,306,279	
	1,326,824			1,300,516		1,312,614	1,313,226			1,293,380			1,315,477	
62:	1,298,961			1,301,551	33:	1,319,960	1,319,326			1,293,381			1,315,477	
	1,305,484			1,302,966		1,307,715	1,322,379			1,293,382			1,299,415	
	1,305,711			1,308,049	35:	1,312,771	1,322,615			1,293,383			1,302,854	
	1,313,804			1,310,051	36:	1,313,711	1,322,615			1,293,384			1,309,616	
64:	1,291,362			1,310,492	40:	1,300,112	1,324,530			1,293,385			1,310,903	
	1,302,940			1,311,882	42:	1,292,087	1,324,941			1,293,386			1,311,038	
	1,303,414			1,311,919	44:	1,291,192	1,325,814			1,293,387			1,311,038	
	1,308,081			1,311,919		1,293,736	1,326,419			1,293,388			1,311,038	
	1,308,221			1,311,920		1,303,466	1,294,844	162:	1,294,844		1,295,864		1,311,038	
	1,308,222			1,312,668		1,304,841	1,304,117			1,295,865			1,311,038	
	1,310,875			1,312,754		1,317,089	1,308,592			1,295,866			1,311,038	
	1,313,131			1,314,316	46:	1,300,894	1,312,520			1,295,867			1,311,038	
	1,323,123			1,317,945		1,309,004	1,321,076			1,295,868			1,311,038	
	1,325,348			1,322,816		1,318,316	1,321,231			1,295,869			1,311,038	
65:	1,317,984			1,322,909	48:	1,324,276	1,322,448			1,295,870			1,311,038	
67:	1,292,684			1,323,373	52:	1,301,825	1,322,448			1,295,871			1,311,038	
	1,292,753			1,324,139	54:	1,311,865	1,322,448	165:	1,290,437		1,295,872		1,311,038	
	1,316,835			1,325,817	61:	1,313,141	1,317,201			1,295,873			1,311,038	
	1,318,134			1,326,453	68:	1,325,482	1,320,783			1,295,874			1,311,038	



## Classification of patents—Continued.

86—	20: 1,317,422	88—	1.5: 1,312,283	88—	17: 1,303,542	88—	24: 1,294,445	88—	50: 1,322,138	89—	14: 1,306,368
	21: 1,306,316		1,322,517		1,303,543		1,297,329		1,323,994		16: 1,321,883
	22: 1,300,834		1,322,526		1,305,154		1,298,282		1,321,211		20: 1,297,984
	31: 1,306,447		2.2: 1,298,648		1,305,405		1,299,024		1,324,225		1,298,020
	43: 1,302,185		1,304,816		1,305,634		1,301,264		51: 1,310,258		1,298,907
	45: 1,311,256		1,311,846		1,305,804		1,302,802		52: 1,293,215		1,300,356
	1,325,339		2.3: 1,290,777		1,305,971		1,303,676		1,304,168		1,302,517
	47: 1,295,038		1,311,253		1,307,541		1,306,861		1,306,535		1,304,271
	1,295,039		1,320,938		1,307,957		1,308,468		1,306,773		1,306,012
87—	4: 1,298,563		2.4: 1,294,341		1,308,443		1,310,052		1,306,805		1,310,044
	1,306,944		2.7: 1,291,848		1,308,444		1,313,815		53: 1,294,390		1,310,045
	1,318,533		1,299,459		1,309,798		1,315,105		1,307,573		1,318,840
	1,319,027		1,305,393		1,309,990		1,315,708		1,310,203		1,323,947
	5: 1,307,149		1,306,320		1,310,211		1,315,743		54: 1,297,660		1,326,580
	1,307,562		1,307,205		1,311,008		1,317,636		1,303,495		1,326,629
	1,315,630		1,309,174		1,311,073		1,318,155		1,315,667		21: 1,326,712
	1,316,090		1,312,013		1,311,363		1,319,820		1,321,440		23: 1,321,422
	1,321,516		1,312,014		1,313,243		1,323,377		56: 1,305,980		24: 1,290,835
	1,322,009		1,313,495		1,315,355		1,325,154		1,309,359		1,302,520
	1,324,764		1,317,213		1,317,043		1,325,198		1,320,542		27: 1,290,839
	6: 1,309,595		1,319,954		1,317,996		26: 1,291,375		57: 1,292,901		1,293,103
	1,325,873		1,320,965		1,318,203		1,315,887		1,293,086		1,299,139
	7: 1,318,464		14: 1,292,366		1,318,610		1,318,541		1,297,040		1,302,518
	9: 1,294,136		1,293,793		1,318,803		27: 1,292,196		1,306,958		1,302,524
	1,304,477		1,294,741		1,318,868		1,294,676		1,309,847		1,302,529
	1,317,617		1,305,032		1,319,847		1,296,583		1,325,936		1,302,530
	1,319,129		1,307,709		1,321,679		1,303,193		59: 1,322,481		1,303,638
	12: 1,291,384		1,316,820		1,324,102		1,313,190		60: 1,320,360		1,310,043
	1,294,068		1,319,805		1,324,266		1,313,241		67: 1,290,252		1,310,887
	1,296,013		1,322,549		1,324,481		28: 1,290,947		1,311,278		1,312,107
	1,300,144		1,323,309		1,325,283		1,297,542		1,322,717		1,324,441
	1,307,588		15: 1,290,078		1,325,825		1,298,417		166: 1,291,954		1,326,213
	1,310,977		1,294,967		1,326,408		1,309,358		89—	1: 1,290,853	33: 1,298,091
	1,313,407		16: 1,292,149		1,326,410		1,321,003		1,296,193		1,303,028
	1,320,093		1,294,249		18: R. 14,694		1,321,241		1,299,136		1,308,017
	1,320,094		1,294,686		1,291,275		29: 1,292,271		1,301,820		1,312,048
	13: 1,293,733		1,295,544		1,292,448		31: 1,322,953		1,302,521		1,314,734
	17: 1,290,118		1,296,471		1,293,128		32: 1,304,507		1,302,523		1,326,234
	1,291,396		1,298,521		1,294,172		1,314,478		1,302,668		35: 1,290,828
	1,292,068		1,300,178		1,298,394		1,314,479		1,307,384		1,305,160
	1,292,333		1,301,538		1,300,057		1,314,480		1,307,469		1,315,742
	1,293,957		1,301,873		1,305,841		1,317,749		1,307,594		1,325,272
	1,299,809		1,307,846		1,309,471		33: 1,302,351		1,307,639		36: 1,290,606
	1,300,096		1,311,416		1,314,604		1,308,283		1,309,202		1,290,799
	1,300,097		1,317,725		1,315,224		34: 1,290,279		1,309,791		1,294,191
	1,307,247		1,318,348		1,317,635		1,324,448		1,310,058		1,296,113
	1,310,706		1,321,906		1,317,637		35: 1,299,750		1,311,780		1,297,455
	1,311,905		1,323,180		1,319,846		38: 1,304,548		1,311,860		1,297,618
	1,317,380		1,324,179		1,322,658		39: 1,308,248		1,317,419		1,297,904
	1,324,332		16.2: 1,292,798		1,326,699		40: 1,294,255		1,317,987		1,298,040
	19: 1,309,999		1,293,203		18.2: 1,318,889		1,313,962		1,318,357		1,298,618
	23: 1,320,855		1,301,045		18.3: 1,321,255		1,321,173		1,319,882		1,299,620
	1,325,361		1,302,367		18.4: 1,305,002		1,321,173		1,321,173		1,301,293
88—	1: 1,290,744		1,306,683		1,317,502		1,291,503		1,321,355		1,304,541
	1,290,745		1,307,323		18.5: 1,311,238		1,297,019		1,322,980		1,305,161
	1,290,746		1,308,875		18.6: 1,308,984		1,307,223		1,323,162		1,307,238
	1,291,636		1,311,433		18.7: 1,295,653		1,309,793		1,324,098		1,308,286
	1,292,326		1,312,103		1,296,476		1,318,812		1,324,113		1,309,620
	1,293,202		1,313,214		1,297,049		1,320,931		1,326,763		1,317,323
	1,293,768		1,323,943		1,298,427		1,296,159		2: 1,290,850		1,318,600
	1,293,993		1,295,374		1,299,792		1,303,628		1,290,852		1,319,194
	1,294,349		1,300,887		1,308,293		1,304,850		1,290,854		1,320,888
	1,294,365		1,301,265		1,318,020		1,306,540		1,291,690		1,321,021
	1,294,938		1,309,992		1,312,088		1,322,624		1,293,396		1,323,433
	1,295,842		1,312,088		1,313,615		1,322,798		1,294,892		1,324,234
	1,298,611		1,317,825		1,317,825		1,324,216		1,312,106		1,317,323
	1,298,840		1,320,760		1,318,889		1,314,761		1,312,106		37: 1,297,699
	1,299,523		1,321,705		1,319,698		1,298,294		1,314,761		1,299,118
	1,300,689		1,322,794		1,320,760		1,307,118		1,317,633		1,299,138
	1,301,502		1,324,122		1,320,760		1,308,396		1,320,711		1,299,140
	1,301,534		1,325,204		1,322,794		1,290,419		1,323,025		1,300,264
	1,302,254		1,325,279		1,324,122		1,290,420		3: 1,293,021		1,302,525
	1,302,353		1,325,280		1,325,204		1,293,232		1,298,911		1,302,528
	1,302,782		1,325,782		1,325,279		1,293,232		1,298,912		1,303,023
	1,304,517		16.5: 1,294,672		1,305,633		1,293,671		1,298,913		1,304,591
	1,304,844		1,304,466		1,307,984		1,293,671		4: 1,291,677		1,305,839
	1,306,203		1,307,042		1,308,494		1,301,101		1,302,519		1,310,883
	1,307,598		1,312,722		1,317,042		1,306,321		1,310,879		1,310,894
	1,307,629		1,313,587		1,319,698		1,306,521		5: 1,312,897		1,312,037
	1,309,478		1,320,280		1,323,762		1,306,527		6: 1,299,901		1,313,464
	1,308,512		1,321,629		1,301,081		1,306,779		1,301,327		1,313,685
	1,309,639		1,309,665		1,302,801		1,308,964		1,314,850		1,314,466
	1,311,087		1,309,672		1,326,409		1,310,273		1,324,772		1,315,358
	1,311,277		1,309,673		19.5: 1,292,153		1,311,543		7: 1,290,596		1,318,731
	1,311,294		1,316,669		1,292,153		1,317,131		1,291,674		1,321,657
	1,312,286		1,317,450		1,324,235		1,317,206		1,314,801		1,322,124
	1,315,485		1,318,016		1,292,671		1,317,207		1,320,233		1,322,457
	1,316,082		1,318,269		1,293,450		1,320,655		1,324,733		1,323,129
	1,316,318		17: 1,291,276		1,306,734		1,323,995		8: 1,297,798		38: 1,295,740
	1,316,438		1,291,277		1,306,735		1,324,176		1,298,447		1,303,024
	1,318,603		1,291,829		1,306,736		1,325,362		1,320,110		1,309,483
	1,319,292		1,291,865		1,293,325		1,325,511		10: 1,291,691		1,309,560
	1,319,762		1,295,081		1,298,686		1,326,664		1,293,075		1,324,800
	1,320,625		1,297,632		22: R. 14,592		1,326,664		1,293,075		40: 1,290,830
	1,322,780		1,298,391		23: 1,297,260		1,302,043		1,311,465		1,292,170
	1,324,519		1,298,392		1,310,255		50: 1,290,330		1,311,492		1,293,020
	1,325,314		1,298,393		1,310,256		1,291,060		1,313,038		1,293,104
1.5: 1,293,149		1,298,600		1,315,972		1,297,232		1,316,397		1,294,240	
1,296,156		1,299,469		1,324,160		1,299,068		1,320,779		1,295,177	
1,299,030		1,300,247		24: 1,291,274		1,302,611		11: 1,290,842		1,295,344	
1,305,984		1,302,388		1,292,005		1,318,836		13: 1,294,636		1,297,445	
1,310,776		1,302,800		1,293,380		1,319,868		1,303,702		1,298,885	
				1,293,433		1,321,077		1,307,316		1,298,886	
								14: 1,304,857		1,298,916	

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99—	8: 1,306,290 1,306,813 9: 1,305,244 10: 1,300,604 1,304,679 1,306,333 1,306,569 1,319,899 1,322,561 1,325,327	100—	31: 1,323,169 1,324,238 1,324,239 1,324,590 1,325,916 1,326,030 36: 1,316,036 37: 1,326,231 41: 1,305,339 1,305,806 1,317,667 44: 1,294,211 1,307,965 1,317,666 1,326,478 47: 1,291,085 1,296,066 1,296,112 1,297,691 1,297,668 1,298,670 1,299,819 1,302,486 1,302,487 1,303,724 1,304,166 1,307,090 1,307,691 1,307,992 1,308,250 1,308,770 1,309,979 1,310,012 1,310,277 1,311,843 1,311,844 1,313,209 1,313,793 1,317,675 1,319,953 1,321,479 1,321,480 1,321,753 1,321,754 1,323,869 1,324,538 1,324,662 1,324,752 1,326,210 1,326,276 1,326,751 12: 1,295,828 1,299,238 1,312,634 1,312,857 1,313,437 1,315,607 1,318,523 1,319,531 1,319,931 13: R. 14, 607 14: 1,322,312 15: 1,312,337 1,325,094 17.1: 1,314,838 98: 1,302,955 313: 1,297,491 100—	31: 1,323,169 1,324,238 1,324,239 1,324,590 1,325,916 1,326,030 36: 1,316,036 37: 1,326,231 41: 1,305,339 1,305,806 1,317,667 44: 1,294,211 1,307,965 1,317,666 1,326,478 47: 1,291,085 1,296,066 1,296,112 1,297,691 1,297,668 1,298,670 1,299,819 1,302,486 1,302,487 1,303,724 1,304,166 1,307,090 1,307,691 1,307,992 1,308,250 1,308,770 1,309,979 1,310,012 1,310,277 1,311,843 1,311,844 1,313,209 1,313,793 1,317,675 1,319,953 1,321,479 1,321,480 1,321,753 1,321,754 1,323,869 1,324,538 1,324,662 1,324,752 1,326,210 1,326,276 1,326,751 12: 1,295,828 1,299,238 1,312,634 1,312,857 1,313,437 1,315,607 1,318,523 1,319,531 1,319,931 13: R. 14, 607 14: 1,322,312 15: 1,312,337 1,325,094 17.1: 1,314,838 98: 1,302,955 313: 1,297,491 100—	101—	78: 1,302,083 86: 1,320,480 88: 1,324,248 89: 1,303,014 93: 1,291,026 1,301,837 95: 1,295,745 1,308,149 99: 1,321,348 103: 1,291,057 1,314,893 104: 1,294,132 111: 1,301,926 1,323,782 112: 1,311,275 113: 1,299,689 1,311,189 114: 1,322,667 1,324,044 124: 1,323,620 130: 1,295,028 1,319,076 132: 1,317,486 133: 1,297,404 1,317,487 137: 1,293,856 1,313,123 143: 1,306,726 144: 1,300,289 149: 1,303,836 1,303,837 1,316,791 152: 1,315,377 157: 1,314,543 165: 1,299,133 168: 1,304,275 170: 1,318,943 174: 1,326,562 175: 1,307,007 180: 1,310,658 1,312,151 181: 1,301,969 1,305,235 183: 1,306,086 184: 1,292,855 185: 1,295,558 1,309,555 192: 1,302,693 1,315,382 195: 1,290,727 198: 1,310,346 199: 1,323,107 201: 1,292,190 211: 1,294,717 1,294,718 1,294,719 1,294,720 212: 1,316,099 216: 1,324,770 218: 1,301,970 220: 1,311,031 225: 1,307,390 226: 1,293,963 227: 1,324,362 228: 1,302,034 1,315,159 232: 1,320,358 235: 1,309,655 236: 1,290,509 1,308,628 247: 1,300,288 1,301,072 248: 1,305,890 1,305,891 250: 1,324,771 252: 1,312,366 269: 1,305,778 279: 1,322,474 280: 1,319,198 282: 1,295,661 1,302,366 284: 1,324,957 285: 1,297,997 291: 1,300,803 294: 1,318,108 301: 1,305,849 316: 1,292,850 319: 1,319,959 320: 1,314,133 333: 1,300,153 338: 1,326,111 341: 1,296,098 1,291,068 345: 1,295,559 1,301,923 1,326,537 347: 1,301,091 1,312,481 348: 1,292,244 1,294,961 350: 1,293,305 1,293,805 1,313,433	101—	350: 1,317,224 1,322,829 359: 1,306,155 360: 1,307,566 362: 1,310,932 364: 1,291,559 1,296,305 365: 1,308,114 1,311,198 1,315,174 368: 1,295,325 1,325,391 1,325,569 369: 1,307,119 374: 1,316,337 1,316,338 375: 1,317,647 1,318,862 1,319,107 378.7: 1,321,268 382: 1,296,929 390: 1,318,284 391: 1,292,701 394: 1,296,898 396: 1,306,902 398: 1,321,299 400: 1,306,038 1,307,967 1,320,738 404: 1,303,733 1,294,012 407: 1,306,095 1,314,452 1,319,727 408: 1,302,310 1,320,345 1,326,390 409: 1,326,798 411: 1,293,749 412: 1,296,008 1,300,610 1,303,793 414: 1,305,904 1,317,061 415: 1,300,028 1,322,563 1,324,684 417: 1,306,456 419: 1,306,682 425: 1,306,646 426: 1,314,211 1,326,843 102—	102—	3: 1,294,327 1,295,051 1,295,064 1,295,066 1,295,067 1,295,097 1,295,213 1,296,273 1,296,376 1,296,816 1,298,141 1,298,142 1,298,143 1,298,937 1,299,011 1,299,012 1,299,440 1,299,601 1,300,413 1,301,810 1,302,732 1,303,272 1,304,549 1,305,080 1,306,372 1,309,120 1,309,121 1,309,391 1,309,909 1,311,781 1,312,227 1,312,346 1,312,405 1,313,546 1,313,665 1,314,413 1,314,652 1,314,653 1,314,654 1,314,655 1,314,656 1,314,657 1,314,659 1,314,660 1,314,661 1,314,662 1,314,663 1,314,664 1,314,665 1,315,122 1,318,687 1,318,857 1,318,926 1,319,145 1,319,153 1,319,282 1,319,565 1,321,428 1,321,775 4: 1,296,836 1,298,500 5: 1,290,086 6: 1,298,097 1,310,666 1,323,524 8: 1,306,895 9: 1,293,354 1,295,952 10: 1,306,510 12: 1,292,390 1,315,081 13: 1,291,189 15: 1,294,059 1,297,216 1,305,113 1,305,114 1,305,115 16: 1,316,786 17: 1,292,359 1,319,185 20: 1,294,150 1,309,040 21: 1,306,407 23: 1,291,584 1,297,898 1,299,217 1,318,955 1,318,956 1,319,635 1,319,636 1,320,991 1,321,259 1,321,563 1,324,433 1,325,486 1,325,487 1,326,258 1,326,266 3: 1,290,054 1,290,125 1,290,829 1,292,542 1,293,740	102—	26: 1,302,720 1,303,079 1,303,576 1,303,713 1,303,738 1,307,419 1,311,949 1,311,950 1,314,199 1,316,033 1,316,363 1,322,662 1,324,092 28: 1,292,108 1,294,329 1,301,822 1,301,859 1,301,860 1,310,073 1,310,076 1,312,762 1,312,763 29: 1,290,275 1,290,763 1,291,683 1,291,941 1,292,374 1,293,653 1,294,047 1,294,143 1,294,605 1,294,924 1,295,050 1,295,569 1,295,577 1,296,403 1,297,873 1,298,222 1,298,851 1,300,195 1,301,380 1,301,381 1,301,382 1,301,907 1,301,929 1,302,008 1,302,272 1,303,163 1,303,164 1,303,260 1,303,499 1,304,265 1,304,544 1,304,962 1,305,186 1,305,187 1,305,188 1,305,216 1,305,751 1,305,967 1,306,215 1,306,265 1,306,718 1,306,747 1,307,659 1,307,684 1,308,345 1,309,280 1,309,530 1,309,669 1,309,743 1,309,772 1,309,982 1,310,129 1,310,132 1,310,708 1,310,790 1,311,006 1,311,021 1,311,285 1,311,521 1,311,739 1,311,740 1,311,785 1,312,004 1,312,764 1,312,765 1,312,840 1,313,300 1,313,926 1,313,940 1,315,113 1,315,592 1,315,857 1,316,005 1,316,148 1,316,269 1,316,296 1,316,367 1,316,917 1,317,608 1,317,609 1,317,611
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## Classification of patents—Continued.

102— 29: 1,317,612	102— 43: 1,313,801	103— 67: 1,294,271	104— 22: 1,300,555	105— 14: 1,303,364	105— 223: 1,290,511
1,318,719	5: 1,301,731	1,296,356	23: 1,295,485	1,313,302	1,299,528
1,318,720	6: 1,292,226	1,304,843	26: 1,325,021	17: 1,292,399	1,306,460
1,318,858	1,319,468	1,305,508	28: 1,303,835	23: 1,322,007	224: 1,308,671
1,319,103	8: 1,292,551	1,305,509	1,315,840	24: 1,314,533	225: 1,325,772
1,320,495	1,295,446	1,311,166	29: 1,322,538	27: 1,309,504	230: 1,308,442
1,321,068	1,303,636	1,314,147	30: 1,326,574	29: 1,319,996	1,312,726
1,321,667	1,305,040	1,318,742	32: 1,319,833	30: 1,325,870	1,290,735
1,321,699	1,309,229	1,324,335	33: 1,301,490	35: 1,312,216	1,207,924
1,322,495	1,316,468	68: 1,304,330	35: 1,324,820	36: 1,324,427	1,307,428
1,323,221	1,317,921	1,304,411	42: 1,291,957	37: 1,308,808	243: 1,292,727
1,325,706	1,322,483	1,318,117	1,297,044	1,322,908	1,311,906
1,325,776	1,323,854	69: 1,291,747	44: 1,291,747	1,324,339	244: 1,300,958
31: 1,293,431	1,325,321	1,319,440	1,313,486	1,324,340	1,305,351
32: 1,297,294	1,326,358	71: 1,294,654	1,318,766	1,325,068	1,308,418
1,307,607	10: 1,296,503	72: 1,304,701	45: 1,311,770	47: 1,292,990	1,308,422
1,315,721	1,301,485	75: 1,296,077	46: 1,324,821	1,300,254	1,318,144
34: 1,322,601	1,303,080	1,303,795	50: 1,324,805	1,322,260	247: 1,292,180
36: 1,296,070	1,319,506	1,305,827	52: 1,314,016	49: 1,292,899	1,292,899
1,296,169	1,321,159	1,308,515	1,322,565	1,301,217	248: 1,300,959
1,296,170	1,325,773	1,311,035	59: 1,290,392	1,310,049	1,300,961
1,296,171	17: 1,326,508	1,313,359	60: 1,316,819	1,317,518	1,308,421
1,298,076	35: 1,299,544	1,315,644	66: 1,306,706	50: 1,308,044	1,313,361
1,298,418	1,304,218	1,316,558	69: 1,326,592	1,308,045	1,316,713
1,299,308	43: 1,290,754	1,321,278	70: 1,320,124	51: 1,291,049	249: 1,297,356
1,301,479	1,293,933	1,324,905	84: 1,319,065	1,291,581	1,304,969
1,301,480	1,294,347	76: 1,290,807	85: 1,311,703	53: 1,317,377	250: 1,295,246
1,301,928	1,295,621	1,301,282	87: 1,304,354	55: 1,292,774	1,299,212
1,309,333	1,296,180	1,323,749	1,317,695	82: 1,293,470	1,314,045
1,309,770	1,298,248	77: 1,295,511	1,323,722	1,316,143	1,321,928
1,309,771	1,314,875	1,296,875	1,326,607	84: 1,307,142	251: 1,300,962
1,310,844	1,320,607	1,308,238	1,305,631	89: 1,311,928	253: 1,294,051
1,310,892	1,322,810	1,308,814	1,320,740	99: 1,298,754	1,300,960
1,310,895	44: 1,290,251	1,314,448	92: 1,314,010	100: 1,302,856	1,322,668
1,311,837	1,292,287	1,316,258	1,322,309	102: 1,296,259	254: 1,317,253
1,311,838	1,296,500	1,323,676	1,323,608	104: 1,313,358	257: 1,292,627
1,312,112	1,297,693	1,325,398	94: 1,305,415	106: 1,302,037	262: 1,311,140
1,312,803	1,297,700	1,326,889	98: 1,291,606	1,318,406	264: 1,298,039
1,313,088	1,303,169	78: 1,312,962	1,324,029	107: 1,306,986	265: 1,297,519
1,313,298	1,306,169	79: 1,303,975	1,307,413	113: 1,317,499	1,305,118
1,316,491	1,307,210	1,312,442	1,313,357	1,326,568	1,307,971
1,317,610	1,307,602	1,321,709	120: 1,316,732	115: 1,290,319	269: 1,319,300
1,319,304	1,308,436	1,322,236	1,323,017	119: 1,293,934	270: 1,294,088
1,320,447	1,309,237	1,325,565	124: 1,306,225	120: 1,300,389	271: 1,294,832
1,322,191	1,315,680	80: 1,294,014	126: 1,301,178	1,317,296	277: 1,318,692
37: 1,292,395	1,317,353	1,295,848	1,296,852	121: 1,300,013	280: 1,319,786
1,298,377	1,317,370	1,296,852	1,290,418	1,302,098	281: 1,312,465
1,302,996	1,317,989	1,301,068	1,290,687	1,306,530	286: 1,322,653
1,311,792	1,318,319	1,317,440	1,302,642	122: 1,302,099	287: 1,311,561
38: 1,313,129	1,321,585	1,317,441	1,307,783	131: 1,306,543	288: 1,297,004
39: 1,290,680	1,321,706	1,321,346	1,304,381	1,324,926	290: 1,292,163
1,291,117	1,322,764	1,322,552	1,311,182	133: 1,295,644	299: 1,290,572
1,292,505	1,323,459	1,323,352	1,304,712	1,306,522	1,317,775
1,293,701	1,324,260	1,323,379	1,294,701	134: 1,300,302	306: 1,318,445
1,296,281	1,325,434	1,302,131	1,291,801	136: 1,300,509	313: 1,308,073
1,297,499	45: 1,320,306	81: 1,294,251	1,298,870	1,314,500	315: 1,300,776
1,298,466	51: 1,312,131	82: 1,294,251	1,318,578	137: 1,305,102	1,313,531
1,298,487	52: 1,290,155	1,297,441	1,324,937	1,306,563	329: 1,301,426
1,299,054	1,297,005	1,302,899	1,291,145	1,306,564	332: 1,308,511
1,301,481	54: 1,309,652	1,307,116	1,310,854	1,314,545	335: 1,320,654
1,301,482	1,319,797	1,320,784	1,294,813	1,326,302	340: 1,300,201
1,301,760	56: 1,305,583	1,321,174	1,324,113	1,326,351	341: 1,306,786
1,302,902	58: 1,292,778	1,322,470	1,293,658	145: 1,291,301	1,314,375
1,309,098	1,321,630	1,324,294	1,301,490	150: 1,311,018	1,315,430
1,309,479	59: 1,295,329	1,326,777	1,296,755	1,314,202	1,319,254
1,309,768	60: 1,312,423	84: 1,291,130	1,296,571	155: 1,312,417	354: 1,311,075
1,309,773	1,310,046	1,300,053	1,321,568	159: 1,323,574	1,315,436
1,310,046	61: 1,297,035	1,302,268	1,297,681	163: 1,296,757	362: 1,290,574
1,310,350	1,297,410	1,302,780	1,319,888	1,296,758	1,290,575
1,310,742	1,309,738	1,305,487	1,324,893	1,296,759	1,319,200
1,310,792	1,310,855	1,322,305	252: 1,293,519	165: 1,314,496	1,319,632
1,310,855	1,313,245	1,322,358	254: 1,290,282	168: 1,307,326	364: 1,305,076
1,311,054	1,318,513	85: 1,290,397	1,291,373	1,308,409	1,311,659
1,311,081	62: 1,299,157	1,316,794	1,300,108	172: 1,293,906	367: 1,294,457
1,311,104	1,307,243	1,318,718	1,325,467	174: 1,307,616	368: 1,304,656
1,311,672	1,313,718	1,325,102	1,324,271	1,311,875	1,324,105
1,311,673	1,317,815	86: 1,309,505	1,319,033	175: 1,218,735	1,325,009
1,311,674	1,318,130	1,319,222	260: 1,317,339	176: 1,293,727	374: 1,304,023
1,311,678	1,324,125	87: 1,293,474	261: 1,298,275	1,304,577	1,232,212
1,311,732	63: R. 14,707	1,300,703	264: 1,303,942	178: 1,315,672	377: 1,291,481
1,311,793	1,293,936	1,314,746	265: 1,294,207	186: 1,293,954	1,298,220
1,311,794	1,294,023	91: 1,310,683	1,294,926	1,316,553	1,232,310
1,311,795	1,297,033	92: 1,293,968	1,305,625	1,316,554	1,324,812
1,311,835	1,303,913	1,294,151	1,313,193	193: 1,295,634	278: 1,318,550
1,313,651	1,306,382	1,294,497	1,325,285	194: 1,300,787	388: 1,324,402
1,313,930	1,307,895	1,305,365	1,325,809	195: 1,311,371	395: 1,299,726
1,316,131	1,309,987	95: 1,290,662	1,326,183	196: 1,292,900	404: 1,312,134
1,316,132	1,313,835	144: 1,306,572	268: 1,305,626	1,294,272	405: 1,299,411
1,316,607	1,317,531	2: 1,300,809	1,325,809	1,321,889	406: 1,308,299
1,316,608	1,325,077	4: 1,303,650	1,326,183	198: 1,314,183	1,308,300
1,318,098	64: 1,297,603	5: 1,317,813	269: 1,315,566	200: 1,293,305	408: 1,293,206
1,319,685	1,300,653	7: 1,313,353	274: 1,318,010	1,304,085	409: 1,293,708
1,321,328	1,306,621	10: 1,320,258	275: 1,302,632	1,326,243	410: 1,297,153
1,321,407	65: 1,294,041	14: 1,301,064	278: 1,309,889	208: 1,292,425	1,299,991
1,321,455	1,308,850	17: 1,294,100	3: 1,318,318	213: 1,325,225	1,301,487
1,322,521	1,317,483	20: 1,313,091	4: 1,298,194	1,325,226	1,304,999
1,325,757	66: 1,297,930	18: 1,297,680	6: 1,300,673	215: 1,298,952	1,309,484
1,325,758			11: 1,302,925	1,306,051	1,311,572
1,326,786			14: R. 14,706	220: 1,306,461	1,313,106
1,326,822			1,299,929		1,313,128
40: 1,299,013					1,319,436
42: 1,291,698					

## Classification of patents—Continued.

105—	410: 1,321,399 1,324,569 411: R. 14, 635 1,302,707 1,302,708 1,313,953 1,317,121 417: 1,325,572 420: 1,290,104 1,290,934 1,300,349 1,300,847 1,302,087 1,302,706 1,311,192 1,317,521 1,318,448 1,318,449 1,320,073 425: 1,297,002 437: 1,325,084 447: 1,301,761 1,307,850 448: 1,315,933 451: 1,302,533 456: 1,324,120 457: 1,297,488 1,300,199 459: 1,306,438 106— 1: 1,326,232 1.6: 1,321,760 5: 1,294,355 1,310,901 1,326,552 7: 1,319,286 8: 1,290,204 1,291,207 1,298,117 1,299,922 1,323,752 1,324,763 9: 1,300,631 1,305,475 1,307,197 1,312,871 1,319,056 1,319,151 1,324,546 10: 1,292,953 1,296,715 1,303,993 1,312,853 1,318,960 11: 1,291,769 15: 1,306,520 1,317,204 18: 1,297,583 21: 1,307,548 1,307,549 1,322,098 22: 1,305,681 1,310,087 1,310,088 23: 1,291,536 1,300,218 1,300,263 1,301,693 1,303,759 1,305,008 1,305,621 1,315,246 1,315,845 1,318,804 1,321,788 1,322,823 24: 1,295,356 1,300,591 1,302,452 1,305,522 1,310,520 1,311,051 1,314,752 1,314,772 1,316,071 1,317,288 1,317,525 1,317,680 1,322,893 25: 1,296,467 1,296,468 1,305,645 1,308,932 1,317,853 1,317,855 1,317,856 1,320,172 1,323,952 1,323,953 28: 1,308,644 29: 1,308,931 1,318,075 1,318,076	106—	29: 1,321,429 1,326,894 30: 1,303,313 1,309,296 1,321,085 31: 1,296,083 1,297,307 1,299,706 1,299,798 1,302,810 1,305,125 1,305,222 1,305,678 1,305,993 1,310,180 1,315,342 1,319,913 1,320,672 1,320,709 1,323,597 1,326,110 33: 1,299,847 34: 1,300,269 1,301,893 1,304,148 1,304,291 1,309,038 1,315,597 36.1: 1,295,298 1,295,299 1,303,268 1,303,269 1,304,623 1,305,793 1,305,794 36.2: 1,314,831 1,314,861 37: 1,301,187 1,309,981 1,323,752 38: 1,316,852 1,317,721 1,319,666 1,320,666 39: 1,293,191 1,302,463 1,302,739 1,302,740 1,311,220 39.1: 1,303,053 40: 1,295,533 1,301,662 1,309,980 1,316,311 1,317,276 1,319,229 1,325,931 107— 1: 1,293,482 1,297,917 1,298,962 1,309,643 1,310,062 4: 1,304,104 1,315,963 1,319,080 1,320,435 6: 1,291,844 1,292,311 7: 1,291,468 1,295,762 1,301,065 1,312,640 8: R. 14, 776 1,291,168 1,319,370 1,323,949 9: 1,302,462 1,303,013 1,305,127 1,308,216 1,314,170 1,318,310 10: 1,304,140 14: 1,305,274 15: 1,293,256 1,314,245 16: 1,326,067 17: 1,309,112 19: 1,303,773 1,311,178 1,312,308 1,312,325 20: 1,296,647 1,297,671 1,303,151 1,303,189 1,306,327 1,310,343 1,314,885 1,325,726 21: 1,309,419 22: 1,314,300	107—	22: 1,319,189 26: 1,303,454 1,317,742 27: 1,290,444 1,292,234 1,294,542 1,306,216 1,316,648 28: 1,309,862 1,315,744 1,319,406 29: 1,299,328 1,301,037 1,303,218 31: 1,290,954 36.1: 1,292,147 1,292,148 1,292,819 37: 1,292,819 39: 1,292,658 45: 1,291,821 1,300,691 1,302,893 1,308,266 47: 1,285,024 1,303,083 48: 1,296,741 1,320,885 1,323,523 1,323,582 49: 1,326,260 50: 1,323,410 1,325,260 51: 1,297,900 1,299,802 1,321,215 1,322,942 54: 1,312,094 1,312,239 1,318,292 55: 1,292,017 1,311,399 1,322,928 57: 1,290,193 1,295,478 58: R. 14, 651 1,294,536 1,294,634 1,294,635 1,295,409 1,299,635 1,300,390 1,301,697 1,302,733 1,303,128 1,305,183 59: 1,298,876 1,303,275 1,303,276 62: 1,320,821 64: 1,293,477 66: 1,293,819 1,310,990 1,314,602 1,326,540 67: 1,309,063 108— 1: 1,298,830 1,303,253 1,317,470 1,319,090 1,321,426 5: 1,290,666 1,295,192 1,296,308 1,296,913 1,299,939 1,300,075 1,300,258 1,302,298 1,302,299 1,309,777 1,319,237 1,323,336 1,324,217 5.4: R. 14, 734 1,291,171 1,315,807 5.5: 1,293,207 5.6: 1,299,916 1,300,076 1,300,077 1,314,573 1,315,756 1,322,694 5.7: 1,315,757 7: 1,295,360 1,297,323 1,298,535 1,298,536 1,299,999 1,310,082 1,318,238	108—	7: 1,321,958 1,325,546 8: 1,298,541 9: 1,320,136 1,321,623 10: 1,297,162 1,303,022 1,322,888 13: 1,309,065 1,305,482 16: 1,296,924 1,299,880 1,315,285 1,317,960 1,325,794 1,326,200 17: 1,290,802 1,295,107 1,306,488 1,312,700 1,318,125 1,321,624 1,322,220 20: 1,292,960 22: 1,297,178 24: 1,295,361 1,303,050 1,307,228 25: 1,313,989 1,301,934 1,322,189 26: 1,308,205 1,313,283 1,318,330 1,318,347 28: 1,299,421 1,313,154 1,313,742 1,316,301 29: 1,313,044 30: 1,290,470 1,308,311 109— 1: 1,311,399 1,326,053 2: 1,294,838 1,297,492 1,299,607 1,304,855 1,309,458 1,325,624 110— 1: 1,311,476 1,312,916 1,315,021 1,320,059 3.5: 1,318,358 8: 1,303,108 1,307,909 1,315,582 9: 1,299,975 1,303,584 17: 1,318,666 18: 1,292,065 1,301,322 1,291,350 1,305,710 1,311,522 1,321,239 21: 1,310,718 1,315,412 22: 1,290,465 1,296,224 1,322,865 24: 1,322,323 26: 1,318,782 1,326,033 28: 1,292,205 1,294,730 1,296,906 1,298,530 1,305,726 1,306,233 1,306,234 1,306,235 1,307,364 1,308,137 1,316,399 1,324,081 29: 1,296,247 1,309,433 32: 1,293,285 1,302,164 1,315,158 33: 1,290,887 37: 1,302,368 1,319,584 38: 1,318,580 1,326,197 39: 1,302,453 40: 1,295,685 1,297,116 1,301,111 1,302,221 1,311,497 1,316,880	110—	40: 1,324,883 1,324,884 1,326,361 1,326,591 1,326,590 44: R. 14, 747 1,293,985 1,298,189 1,305,482 1,322,822 1,323,650 1,324,803 46: 1,306,194 1,311,092 1,314,903 1,326,051 47: 1,292,649 1,309,344 1,312,397 1,321,335 49: 1,310,173 1,319,402 1,319,403 54: 1,314,174 55: 1,301,588 1,309,172 57: 1,292,834 58: 1,291,091 1,301,000 1,318,639 60: 1,302,061 1,325,329 61: 1,306,133 65: 1,321,269 69: 1,291,175 1,297,582 73: 1,318,690 74: 1,297,293 1,304,393 1,320,481 75: 1,298,845 1,297,056 1,303,119 1,311,611 1,311,896 1,321,168 1,322,183 76: 1,293,223 1,320,082 78: 1,313,127 82: 1,303,924 1,326,060 86: 1,300,374 87: 1,317,810 92: 1,298,306 1,318,123 93: 1,306,628 95: 1,317,460 1,326,752 97: 1,321,822 98: 1,299,486 1,317,930 99: 1,309,435 1,323,038 1,326,753 101: 1,318,067 1,319,375 103: 1,298,432 1,313,527 104: 1,300,272 1,304,380 1,307,320 1,307,365 1,307,375 1,314,740 1,315,719 1,319,004 1,320,367 1,320,963 105: 1,304,973 1,308,368 1,311,524 1,318,375 108: 1,318,579 1,323,401 113: 1,304,464 1,305,655 1,322,423 115: 1,325,589 116: 1,317,028 157: 1,320,298 162: 1,297,871 1,306,335 1,323,981 163: 1,291,184 1,318,118 165: 1,304,235 1,305,564 1,305,565 1,319,328 1,320,898	110—	165: 1,324,671 166: 1,321,297 171: 1,305,409 172: 1,297,247 1,300,676 1,318,331 1,319,096 1,322,262 173: 1,301,144 1,307,483 1,321,034 175: 1,312,319 177: 1,311,369 1,315,155 111— 1: 1,292,391 1,305,850 1,314,838 1,324,728 4: 1,298,134 5: 1,292,082 1,303,399 1,314,279 14: 1,311,427 16: 1,290,913 1,294,629 1,297,847 1,304,916 1,310,710 1,316,288 18: 1,304,992 23: 1,301,134 1,311,985 30: 1,291,595 34: 1,300,641 37: 1,321,339 38: 1,293,624 49: 1,303,780 1,315,703 1,324,240 51: 1,304,312 1,306,153 52: 1,298,674 1,298,756 1,303,264 1,314,863 1,318,963 53: 1,297,601 54: 1,317,282 56: 1,326,872 59: 1,290,103 1,290,978 1,295,845 1,303,136 1,322,859 63: 1,306,900 1,308,163 1,315,276 66: 1,298,009 68: 1,319,854 81: 1,318,365 85: 1,293,603 1,317,402 87: 1,299,160 71: 1,292,306 80: 1,291,164 93: 1,324,618 97: 1,312,817 2: 1,319,450 3: 1,322,842 4: 1,300,446 1,309,575 1,309,576 5: 1,290,048 1,291,094 1,299,402 1,299,625 1,307,264 6: 1,292,008 1,296,455 1,312,412 1,312,413 7: 1,295,074 1,295,140 1,295,942 1,299,145 1,300,838 8: 1,296,002 1,297,920 1,300,358 1,300,496 1,311,580 1,312,823 1,312,866 9: 1,293,725 1,301,808 1,321,481 13: 1,294,226 1,300,184 1,300,554 1,300,885
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## Classification of patents—Continued.

112—	13: 1,300,928 1,302,998 1,306,752 14: 1,313,308 1,292,063 1,299,468 16: 1,296,550 1,298,914 19: 1,315,064 20: 1,291,661 1,295,070 1,298,280 1,298,759 1,299,405 1,301,269 1,301,336 1,301,400 1,302,597 1,302,598 1,309,372 1,312,637 1,313,704 1,317,613 22: 1,302,219 1,303,904 1,307,842 1,310,460 24: 1,291,503 1,291,526 1,293,445 1,293,560 1,294,660 1,298,514 1,298,246 1,298,847 1,300,139 1,300,140 1,300,532 1,301,528 1,303,121 1,305,510 1,306,605 1,308,608 1,314,368 1,292,064 26: 1,313,721 1,290,924 1,293,806 1,295,133 1,296,633 1,298,413 1,299,143 1,300,848 1,304,750 1,305,051 1,307,295 1,311,817 1,312,363 31: 1,290,052 1,290,253 1,293,554 1,294,927 1,296,029 33: 1,291,335 1,292,527 1,292,784 1,298,786 1,313,524 1,312,659 34: 1,291,235 1,293,576 1,305,542 1,306,110 1,308,294 36: 1,300,449 1,306,994 37: 1,299,242 1,309,272 38: 1,293,931 1,304,627 39: 1,295,330 1,303,400 1,312,799 60: 1,320,330 65: 1,319,430 68: R. 14,608 71: 1,326,666 78: 1,320,948 1,325,033 1,325,034 1,326,593 80: 1,309,601 1,324,398 83: 1,323,066 102: 1,305,927 103: 1,313,016 104: 1,302,750 108: 1,302,689 116: 1,319,277 122: 1,318,629 132: 1,320,185 1,320,248 135: 1,314,705	112—	136: 1,317,865 1,320,457 137: 1,299,569 1,315,090 1,317,566 138: 1,320,456 141: 1,325,629 147: 1,296,632 151: 1,314,820 152: 1,317,889 1,319,262 153: 1,313,275 161: 1,326,669 176: 1,319,218 1,322,510 178: 1,316,458 197: 1,318,275 1,324,543 200: 1,316,400 201: 1,316,022 203: 1,314,891 1,317,005 1,317,006 209: 1,326,026 210: 1,325,382 212: 1,325,037 220: 1,311,114 222: 1,323,340 227: 1,319,234 231: 1,323,262 232: 1,316,444 233: 1,320,546 1,326,624 235: 1,316,425 1,321,502 1,325,365 239: 1,313,265 242: 1,319,886 248: 1,319,470 252: 1,302,394 1,315,486 1,319,668 1,325,707 1,326,659 253: 1,324,985 254: 1,326,667 258: 1,319,469 259: 1,324,762 260: 1,300,843 1,323,355 1,323,363 1,324,541 261: 1,318,173 1,324,736 262: 1,303,536 1,296,537 1: 1,296,537 1,299,169 1,303,520 1,311,588 1,315,022 1,318,416 1,319,394 1,319,395 2: 1,290,256 1,291,662 1,294,006 1,294,396 1,296,810 1,299,355 1,299,820 1,303,540 1,304,578 1,310,960 1,311,892 3: 1,295,928 1,303,580 4: 1,299,551 1,303,581 1,305,752 1,305,765 5: 1,290,706 7: 1,315,000 12: 1,306,449 14: 1,306,648 1,306,744 1,307,888 1,317,926 1,320,700 16: 1,324,447 17: 1,313,998 18: 1,298,218 1,316,253 23: 1,293,694 1,306,168 1,316,083 1,317,977 33: 1,323,717 34: 1,318,415 35: 1,296,689 38: 1,307,170 1,311,587 1,322,533	113—	38: 1,322,861 39: 1,304,087 1,308,758 1,313,528 1,317,385 42: R. 14,691 1,326,893 47: 1,320,993 48: 1,306,166 49: 1,311,368 1,318,649 1,322,147 51: 1,294,486 1,308,769 1,316,636 52: 1,297,819 53: 1,316,300 54: 1,325,210 59: 1,290,341 1,292,909 1,297,580 1,301,462 1,301,793 1,305,052 1,315,448 60: 1,317,929 61: 1,318,871 80: R. 14,708 1,320,661 1,296,474 1,299,170 1,299,188 1,299,259 1,318,335 94: 1,296,656 1,309,107 99: 1,309,065 104: 1,306,858 1,308,181 105: 1,291,557 1,295,750 1,297,245 110: 1,291,878 111: 1,309,088 1,312,318 1,322,126 112: 1,290,091 1,293,977 1,302,690 1,308,637 1,308,741 1,309,033 1,319,670 1,320,198 1,319,850 114: 1,292,695 1,304,323 1,313,990 1,320,292 1,292,022 116: 1,298,717 1,298,801 1,298,815 1,300,646 1,301,700 1,304,493 1,305,019 1,308,975 1,311,637 1,317,420 1,320,430 1,321,323 1,322,553 1,326,162 114— 0.5: 1,291,034 1,292,097 1,293,167 1,301,300 1,309,728 1,309,736 1: 1,295,708 1,310,809 2: 1,290,259 6: 1,296,688 9: 1,319,480 12: 1,299,024 13: 1,294,920 15: 1,296,226 1,296,753 1,301,087 1,301,563 1,305,298 1,310,280 1,310,534 1,312,595 16: 1,293,209 1,294,922 1,296,449 1,296,450 1,296,689 1,298,333 1,300,524 1,300,744	114—	16: 1,300,745 1,331,566 1,301,738 1,302,264 1,303,266 1,304,617 1,305,238 1,308,738 1,309,055 1,310,877 1,312,662 1,313,534 1,314,058 1,314,059 1,315,533 1,316,405 1,317,033 1,319,464 1,324,880 1,324,961 16.4: 1,309,563 16.8: 1,324,425 17: 1,299,483 1,305,876 1,310,880 1,316,284 1,292,255 1,296,668 18: 1,312,391 1,320,661 1,325,541 20: 1,290,815 1,292,668 1,295,355 1,296,328 1,296,333 1,303,039 1,303,045 1,308,180 1,308,181 1,309,252 1,312,510 21: 1,295,741 1,295,742 1,301,690 1,319,678 23: 1,303,038 1,303,044 24: 1,295,003 1,296,329 1,296,330 1,296,334 1,304,255 1,312,084 1,314,157 1,318,980 1,322,232 25: 1,296,352 1,313,100 1,323,347 26: 1,314,969 29: 1,319,977 31: 1,314,281 38: 1,306,322 39: 1,303,839 42: 1,299,023 44: 1,303,912 45: 1,300,954 47: 1,309,756 50: 1,300,553 51: 1,296,824 1,296,983 1,312,473 1,314,119 1,324,336 1,325,497 52: 1,323,249 53: 1,292,718 1,300,715 1,300,943 1,302,245 1,308,168 1,308,528 1,309,111 6: 1,321,060 54: 1,293,899 1,293,900 1,295,375 1,319,424 56: 1,295,786 1,303,689 1,313,945 57: 1,294,082 1,313,946 1,319,592 1,321,733 58: 1,300,979 61: 1,303,690 1,319,591 63: 1,304,865 1,310,181 1,310,650 65: 1,292,173 1,293,063	114—	65: 1,296,809 1,299,699 1,301,013 1,303,369 1,303,647 1,303,667 1,305,379 1,313,592 1,314,069 1,316,088 1,316,345 1,316,659 1,318,712 1,325,228 66.5: 1,295,784 1,296,155 1,296,876 1,301,917 1,307,873 1,312,036 1,316,762 1,318,413 1,305,896 1,312,369 1,320,020 68: 1,293,918 1,296,668 1,297,303 1,297,558 1,301,238 1,303,910 1,309,019 1,309,875 1,310,233 1,312,355 1,316,016 1,318,142 1,320,012 69: 1,321,325 72: 1,312,356 74: 1,313,529 1,319,462 78: 1,307,983 1,319,947 79: 1,290,092 1,290,093 1,313,663 1,315,489 1,323,920 83: 1,301,270 85: 1,292,466 107: 1,304,788 114: 1,311,555 115: 1,322,849 116: 1,294,962 119: 1,323,424 122: 1,299,186 123: 1,303,508 1,311,735 1,316,357 125: 1,302,547 126: 1,325,385 141: 1,298,758 145: 1,292,770 1,296,448 1,306,913 1,306,914 1,315,514 147: 1,319,182 150: 1,294,162 157: 1,290,337 163: 1,292,732 178: 1,303,537 184: 1,304,961 191: 1,324,767 194: 1,320,490 201: 1,295,561 1,319,980 203: 1,298,147 1,312,496 1,319,610 206: 1,305,507 1,319,419 1,321,356 207: 1,324,244 1,325,693 208: 1,295,076 1,297,987 1,310,308 1,316,216 1,316,593 211: 1,318,312 218: 1,291,341 1,299,529 219: 1,294,081 220: 1,303,950 221: 1,313,435 222: 1,319,550 1,322,033 224: 1,291,358 1,296,948 1,298,121 1,318,689	114—	224: 1,326,660 225: 1,293,453 226: 1,319,562 227: 1,301,204 229: 1,294,097 1,303,049 1,306,938 1,307,040 1,309,022 1,319,378 235: 1,295,847 1,297,418 238: 1,296,335 1,304,422 1,310,896 1,315,535 1,318,014 239: 1,320,659 240: 1,293,168 1,293,169 1,293,289 1,293,539 1,294,065 1,294,789 1,295,818 1,296,543 1,296,669 1,296,949 1,298,325 1,299,243 1,299,697 1,299,775 1,299,962 1,301,641 1,302,206 1,303,355 1,303,522 1,305,700 1,305,877 1,307,023 1,307,274 1,307,518 1,308,003 1,308,716 1,309,690 1,310,057 1,310,326 1,310,563 1,311,002 1,312,841 1,314,902 1,317,094 1,317,428 1,322,576 1,324,904 1,324,919 1,325,542 1,326,156 1,326,558 241: 1,292,755 1,322,594 115— 0.5: 1,299,161 1: 1,320,348 4: 1,304,318 1,315,267 7: 1,318,107 12: 1,294,648 13: 1,291,032 16: 1,326,730 17: 1,309,975 1,316,169 18: 1,302,956 1,302,957 1,317,480 1,320,316 20: 1,296,646 1,309,928 21: 1,312,679 24: 1,319,613 25: 1,318,844 28: 1,324,397 1,324,722 31: 1,306,892 1,315,505 1,318,571 34: 1,317,861 35: 1,326,760 37: 1,302,982 1,304,287 1,315,620 1,320,511 38: 1,296,352 1,321,304 39: 1,320,697 41: 1,320,697 63: 1,293,035 103: 1,291,366 257: 1,302,730 1: 1,290,728 1,291,647 1,292,436 1,293,350 1,293,724
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## Classification of patents—Continued.

116— 1: 1,293,019 1,294,936 1,295,402 1,296,160 1,296,603 1,297,239 1,298,428 1,298,538 1,299,201 1,300,425 1,301,106 1,303,939 1,305,101 1,306,493 1,307,802 1,309,303 1,309,764 1,311,970 1,312,060 1,312,370 1,313,006 1,313,533 1,315,636 1,316,481 1,317,473 1,318,127 1,318,572 1,318,613 1,319,673 1,319,722 1,320,010 1,320,171 1,320,759 1,321,854 1,322,396 1,323,455 1,323,517 1,323,807 1,323,826 1,323,863 1,325,784 1,324,012 1,325,432 1,325,593 1,325,918 1,326,803 1.3: 1,294,431 9: 1,296,499 11: 1,292,009 1,303,005 1,303,082 1,309,916 12: 1,294,032 1,294,176 1,295,274 1,298,539 1,298,550 1,302,190 1,303,623 1,305,885 1,306,915 1,311,712 1,312,426 1,314,549 1,317,445 1,320,412 1,321,837 1,324,439 13: 1,299,101 1,326,522 15: 1,312,097 1,312,175 1,318,308 18: 1,308,574 18.3: 1,292,439 1,318,739 19: 1,313,251 22: 1,295,585 1,307,916 1,312,025 22.2: 1,317,819 31: 1,290,463 1,290,639 1,290,648 1,291,022 1,291,613 1,292,304 1,292,481 1,292,790 1,293,255 1,293,577 1,294,990 1,295,718 1,296,065 1,296,093 1,296,094 1,297,961 1,298,057 1,298,205 1,298,894 1,299,080 1,299,088 1,299,473	116— 31: 1,299,863 1,299,966 1,299,996 1,300,291 1,300,369 1,301,090 1,301,842 1,302,130 1,302,756 1,303,312 1,303,476 1,305,369 1,305,638 1,306,093 1,307,183 1,307,593 1,307,727 1,307,964 1,308,662 1,309,259 1,309,265 1,309,491 1,310,316 1,310,623 1,311,408 1,311,418 1,312,217 1,312,603 1,313,017 1,313,377 1,313,463 1,313,738 1,313,929 1,314,028 1,314,089 1,314,289 1,315,185 1,315,301 1,315,634 1,315,697 1,316,068 1,316,313 1,316,821 1,316,866 1,317,375 1,317,740 1,318,627 1,318,982 1,319,265 1,319,284 1,319,548 1,319,834 1,320,222 1,320,822 1,320,925 1,321,320 1,321,374 1,321,441 1,321,526 1,321,701 1,321,933 1,321,968 1,322,239 1,323,118 1,323,295 1,323,444 1,323,914 1,324,382 1,324,434 1,324,633 1,325,977 1,324,032 1,325,193 1,325,777 1,325,939 1,326,118 1,326,127 1,326,316 1,326,512 1,326,722 31.4: 1,290,260 31.5: 1,301,271 33: 1,291,550 1,291,775 1,294,121 1,295,262 1,297,982 1,300,737 1,307,380 1,307,466 1,307,610 1,312,610 1,324,263 40: 1,304,913 42: 1,294,242 1,294,867 1,301,143 1,306,789 1,309,529 1,321,872 44: 1,296,982	116— 44: 1,299,808 1,301,783 1,304,243 1,310,941 1,320,796 44.4: 1,326,283 47: 1,290,988 48: 1,293,928 49: 1,292,547 1,293,935 1,297,459 1,298,606 1,309,811 50: 1,300,339 59: 1,293,336 1,311,355 1,315,019 1,322,205 1,324,609 1,324,636 1,325,288 1,326,388 60: 1,317,660 61: 1,314,086 62: 1,296,747 65: 1,313,389 1,318,638 66: 1,322,796 67: 1,321,940 117— 337: 1,299,057 118— 9: 1,318,422 12: 1,308,721 19: 1,309,790 27: 1,304,664 45: 1,317,302 48: 1,298,163 1,306,517 49: 1,294,371 1,326,179 57: 1,291,827 1,325,594 1,325,345 2: 1,290,467 5: 1,297,254 1,322,322 7: 1,311,326 8: 1,324,966 15: 1,311,640 16: 1,307,862 1,318,982 19: 1,303,736 1,313,691 21: 1,294,960 1,301,660 1,320,204 22: 1,300,997 1,306,365 1,314,075 1,317,559 25: 1,293,513 1,301,321 1,305,450 1,325,360 26: 1,297,811 27: 1,294,366 1,297,974 1,315,351 30: 1,314,473 32: 1,302,411 1,303,804 1,308,470 1,308,717 33: 1,317,516 34: 1,295,346 1,320,586 35: 1,297,114 37: 1,319,342 39: 1,315,154 42: 1,303,722 43: 1,296,197 1,300,957 44: R. 14,673 1,291,081 1,293,495 1,297,775 1,306,164 1,308,686 1,308,995 1,311,814 45: 1,315,432 1,319,460 47: 1,320,774 48: 1,309,345 1,325,038 49: 1,296,388 1,304,845 1,315,046 1,320,943 50: 1,291,852 1,302,818 1,305,736 1,318,105	119— 50: 1,324,612 52: 1,290,775 1,302,979 1,313,613 53: 1,297,743 1,301,027 1,303,917 1,304,107 1,311,691 1,311,696 1,314,624 1,316,785 1,316,838 1,316,852 1,316,910 1,321,614 1,324,532 1,324,595 1,325,922 1,326,002 1,326,273 54: 1,290,373 1,292,693 1,301,383 1,305,832 1,307,120 1,308,901 1,309,090 1,322,698 55: 1,322,218 57: 1,290,753 60: 1,319,060 61: 1,290,729 1,290,931 1,296,772 1,297,586 1,312,576 61: 1,324,593 63: 1,293,972 65: 1,296,962 1,300,985 1,303,403 70: 1,297,821 1,299,719 1,301,587 71: 1,294,897 1,301,416 1,315,855 72: 1,307,429 73: 1,301,805 1,308,806 1,309,208 1,312,350 1,313,146 1,315,047 1,317,148 1,319,095 1,319,567 1,320,264 1,325,474 1,325,640 74: 1,303,569 1,322,682 75: 1,296,586 1,302,939 1,310,320 1,317,801 76: 1,324,164 77: 1,299,091 1,314,033 81: 1,325,035 82: 1,297,696 85: 1,307,702 86: 1,326,782 88: 1,290,554 1,302,755 1,324,899 95: 1,296,267 97: 1,321,819 99: 1,301,408 1,323,072 99: 1,315,322 100: 1,318,324 105: 1,296,258 1,301,349 1,315,689 1,320,213 110: 1,290,110 1,294,400 1,295,622 1,297,872 115: 1,294,101 1,299,193 1,307,355 1,308,224 1,309,034 1,321,763 130: 1,297,301 1,326,823 131: 1,303,587 1,321,448 132: 1,290,062	119— 132: 1,306,590 1,323,083 1,325,793 133: 1,300,977 134: 1,290,355 138: 1,295,815 1,298,985 1,304,388 1,322,120 139: 1,300,657 1,314,532 140: 1,322,998 145: 1,317,107 146: 1,311,728 147: 1,309,497 148: 1,298,102 149: 1,301,503 1,314,953 1,311,658 1,312,677 1,314,880 1,322,686 153: 1,297,468 156: 1,312,130 157: 1,291,367 1,295,114 1,295,115 1,295,908 1,298,804 1,300,297 1,301,904 1,303,815 1,303,965 1,306,473 1,314,274 1,315,583 1,316,097 1,316,970 1,318,159 1,319,362 1,320,326 158: 1,311,772 159: 1,303,851 1,315,309 120— 1: 1,291,835 1,296,890 1,303,944 1,312,379 2: 1,294,478 4: 1,293,002 1,296,232 5: 1,292,872 1,297,877 6: 1,290,649 1,317,517 7: 1,317,685 9: 1,292,893 1,299,923 1,321,831 14: 1,301,341 1,304,590 17: 1,324,971 18: 1,292,426 1,298,343 1,302,585 1,302,999 1,309,929 1,310,260 1,317,743 1,319,039 1,321,636 1,325,570 19: 1,303,442 1,307,159 21: 1,296,011 1,296,900 24: 1,299,614 1,304,223 1,320,596 25: 1,293,652 1,303,902 1,308,688 26: 1,326,324 27: 1,299,174 28: 1,293,067 1,303,305 1,308,010 1,321,592 29: 1,290,933 30: 1,293,905 1,295,169 1,302,993 1,306,788 1,312,035 32: 1,313,812 33: 1,306,960 1,317,004 34: 1,292,018 1,309,937 35: 1,302,514 1,306,945 36: 1,292,416	120— 36: 1,298,639 1,299,921 1,301,413 1,302,763 1,302,954 1,317,972 1,326,840 37: 1,290,900 42: 1,290,545 1,298,326 1,299,836 1,300,379 1,300,849 1,301,057 1,302,935 1,304,292 1,307,195 1,308,349 1,310,257 1,312,440 1,313,056 1,322,862 43: 1,297,217 1,297,073 1,321,045 45: 1,319,556 46: 1,290,365 1,292,736 1,299,642 1,301,317 1,299,642 1,301,317 1,317,472 1,319,593 1,321,188 1,325,392 1,325,443 1,325,844 47: 1,304,264 1,317,817 1,320,393 48: 1,307,630 49: 1,294,520 1,297,602 1,302,842 50: 1,320,694 53: 1,308,355 4: 1,295,695 1,296,232 58: 1,293,019 1,305,869 59: 1,320,903 1,325,408 64: 1,303,468 66: 1,322,144 68: 1,298,219 69: 1,308,817 74: 1,311,397 83: 1,291,671 1,294,802 84: 1,921,972 1,294,247 1,297,017 1,305,245 1,305,477 1,307,359 84: 1,311,516 1,320,946 1,322,966 87: 1,299,780 90: 1,301,727 93: 1,296,971 1,306,903 95: 1,326,429 96: 1,301,772 1,301,773 1,301,774 1,305,855 101: 1,291,622 1,292,021 1,292,762 1,309,475 1,315,373 1,319,444 102: 1,304,171 108: 1,291,212 1,319,743 109: 1,307,273 1,312,712 109.5: 1,304,709 1,314,879 1,316,800 110: 1,305,538 113: 1,318,000 114: 1,305,046 1,311,026 121— 1: 1,290,966 4: 1,296,234
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## Classification of patents—Continued.

4: 1,301,459	121—	78: 1,313,725	122—	11: 1,307,612	457: 1,293,216	123—	32: 1,322,137	124—	56: 1,311,060
5: 1,318,618		1,317,056		16: 1,295,610	462: 1,296,055		1,324,978		57: 1,310,368
6: 1,318,617		82: 1,320,679		18: 1,317,039	1,296,320	33: 1,292,347	1,298,191		58: 1,298,191
7: 1,324,078		84: 1,302,877		1,324,071	1,299,033		1,296,614		1,300,098
10: 1,326,245		1,306,238		19: 1,291,714	1,301,606		1,298,605		1,306,639
1,297,925		1,321,369		20: 1,319,555	1,313,326		1,302,653		1,312,234
1,299,814		87: 1,296,618		23: 1,321,668	1,318,185		1,305,533		1,315,538
1,300,100		1,320,626		1,322,350	1,311,868	467: 1,311,868	1,305,894	59: 1,290,413	
1,311,925		88: 1,307,631		40: 1,322,374	471: 1,304,480	471: 1,304,480	1,315,462	1,291,917	
1,326,399		1,320,531		42: 1,317,388	472: 1,322,368	472: 1,322,368	1,320,450	1,292,103	
11: 1,303,705		1,322,882		58: 1,292,775	476: 1,316,701	476: 1,316,701	1,320,764	1,292,942	
1,305,349		90: 1,302,930		1,299,344	1,318,059	1,318,059	1,323,550	1,294,274	
1,309,649		95: 1,294,714		1,322,484	1,326,203	1,326,203	1,323,778	1,294,395	
1,313,867		96: 1,297,826		61: 1,306,180	478: 1,314,620	478: 1,314,620	1,292,053	1,296,147	
12: 1,317,874		98: 1,314,624		68: 1,303,953	480: 1,315,641	480: 1,315,641	1,307,975	1,297,248	
13: 1,317,211		1,290,265		1,306,613	485: 1,298,140	485: 1,298,140	1,311,504	1,298,256	
1,324,327		1,290,389		1,308,102	498: 1,312,168	498: 1,312,168	1,312,460	1,299,320	
14: 1,314,600		1,295,934		1,325,289	504: 1,315,776	504: 1,315,776	1,293,726	1,301,007	
1,296,480		1,296,322		73: 1,310,807	510: 1,303,758	510: 1,303,758	1,307,221	1,301,477	
1,301,853		1,299,284		94: 1,319,184	123—	1: 1,314,561	1,293,564	1,301,661	
1,311,034		1,302,096		1,320,236	2: 1,299,433	2: 1,299,433	1,294,077	1,302,020	
1,312,906		1,303,979		114: 1,291,590	1,299,434	1,299,434	1,301,232	1,303,654	
1,314,167		1,324,558		1,321,922	5: 1,291,718	5: 1,291,718	1,305,578	1,303,954	
15: 1,319,968		100: 1,314,847		120: 1,321,755	1,308,811	1,308,811	1,308,562	1,304,039	
19: 1,292,429		101: 1,299,773		123: 1,305,686	1,307,903	1,307,903	1,316,242	1,304,520	
1,306,075		102: 1,304,717		136: 1,313,963	1,298,838	1,298,838	1,318,368	1,304,629	
1,313,821		103: 1,306,332		140: 1,313,692	1,298,839	1,298,839	1,318,684	1,304,744	
20: 1,314,606		1,324,064		150: 1,317,744	1,299,588	1,299,588	1,292,171	1,306,618	
1,293,081		1,292,392		159: 1,323,302	1,302,233	1,302,233	1,293,733	1,308,466	
1,293,225		1,299,674		165: 1,307,906	1,303,255	1,303,255	1,298,610	1,309,081	
1,293,251		1,301,571		166: 1,290,096	1,305,966	1,305,966	1,308,813	1,311,603	
1,297,679		105: 1,291,313		167: 1,293,503	1,308,352	1,308,352	1,309,119	1,312,003	
1,303,725		1,293,266		1,320,539	1,308,896	1,308,896	1,313,569	1,313,836	
1,306,300		1,294,787		169: 1,295,125	1,317,909	1,317,909	1,321,046	1,315,788	
1,307,911		1,299,709		1,312,012	1,318,017	1,318,017	1,315,954	1,316,454	
1,309,815		1,300,016		1,326,198	1,298,140	1,298,140	1,292,295	1,317,355	
1,313,597		1,302,691		176: 1,318,376	1,305,155	1,305,155	1,293,508	1,317,356	
1,313,859		1,309,825		188: 1,320,690	1,305,451	1,305,451	1,293,623	1,318,224	
1,314,288		1,312,143		209: 1,291,935	1,307,282	1,307,282	1,297,407	1,318,542	
1,317,019		1,312,285		211: 1,307,371	1,309,735	1,309,735	1,299,662	1,318,601	
1,325,982		1,315,253		212: 1,308,669	1,316,957	1,316,957	1,299,777	1,319,398	
21: 1,293,080		1,317,395		1,326,621	1,319,932	1,319,932	1,300,916	1,320,847	
1,293,960		108: 1,290,456		1,312,353	1,325,684	1,325,684	1,301,359	1,322,422	
1,293,961		1,290,819		1,317,461	1,309,096	1,309,096	1,302,442	1,325,295	
1,314,246		1,292,101		1,310,198	1,320,953	1,320,953	1,305,334	1,325,305	
1,319,034		1,293,617		1,312,801	1,300,036	1,300,036	1,306,036	1,326,521	
24: 1,292,943		1,294,199		1,313,722	1,302,504	1,302,504	1,306,036	1,326,682	
1,295,486		1,298,548		1,322,950	1,303,134	1,303,134	1,306,939	61: 1,303,598	
1,304,864		1,299,085		1,317,418	1,308,339	1,308,339	1,312,577	62: 1,301,420	
1,309,279		1,300,623		1,326,644	1,309,554	1,309,554	1,315,176	63: 1,313,634	
25: 1,299,477		1,301,438		1,304,499	1,309,767	1,309,767	1,315,736	64: 1,319,750	
26: 1,312,555		1,304,360		1,318,825	1,319,614	1,319,614	1,315,847	65: 1,304,443	
32: 1,322,572		1,306,034		247: 1,296,799	1,324,506	1,324,506	1,315,897	1,306,198	
34: 1,322,107		1,309,609		250: 1,291,083	1,324,759	1,324,759	1,315,897	1,310,906	
41: 1,321,423		1,313,784		1,298,254	1,326,684	1,326,684	1,316,346	1,311,877	
1,325,657		1,313,905		1,304,531	1,320,182	1,320,182	1,316,864	1,313,276	
45: 1,291,478		1,313,997		1,306,197	1,326,313	1,326,313	1,324,408	1,318,781	
1,293,713		1,316,464		1,314,396	1,318,355	1,318,355	1,292,496	1,313,276	
1,298,226		1,316,534		1,320,210	255: 1,304,392	255: 1,304,392	1,292,748	1,320,062	
1,301,757		1,320,210		1,318,355	264: 1,302,458	264: 1,302,458	1,312,971	1,323,785	
1,306,067		1,320,392		265: 1,311,467	268: 1,295,473	268: 1,295,473	1,308,621	66: 1,290,226	
1,306,395		1,320,675		269: 1,304,496	297: 1,325,133	297: 1,325,133	1,317,067	67: 1,313,578	
1,315,347		111: 1,304,286		302: 1,318,509	1,326,684	1,326,684	1,316,192	68: 1,301,441	
1,326,228		115: 1,251,157		331: 1,315,024	1,298,079	1,298,079	1,317,067	1,305,580	
1,326,228		116: 1,290,065		332: 1,300,087	1,300,714	1,300,714	1,317,067	1,305,581	
46: 1,325,006		1,291,271		339: 1,296,909	1,301,066	1,301,066	1,317,067	1,305,581	
47: 1,310,157		1,292,283		352: 1,304,998	1,301,138	1,301,138	1,317,067	69: 1,296,686	
48: 1,292,324		1,299,326		356: 1,298,184	1,301,463	1,301,463	1,317,067	1,321,047	
51: 1,304,457		1,302,300		360: 1,291,600	1,301,990	1,301,990	1,317,067	1,321,392	
1,305,133		1,304,096		367: 1,294,227	1,304,019	1,304,019	1,317,067	1,321,392	
54: 1,312,838		1,305,347		373: 1,312,185	1,305,859	1,305,859	1,317,067	71: 1,298,466	
1,326,252		1,309,132		389: 1,304,385	1,307,604	1,307,604	1,317,067	1,299,895	
60: 1,322,162		1,317,858		391: 1,301,255	1,309,114	1,309,114	1,317,067	1,321,392	
61: 1,321,146		1,318,890		392: 1,304,609	1,314,763	1,314,763	1,317,067	73: 1,292,322	
62: 1,307,480		1,318,996		1,322,799	1,316,736	1,316,736	1,317,067	1,296,214	
1,318,619		117: 1,319,404		1,323,737	1,318,953	1,318,953	1,324,520	1,306,661	
63: 1,297,749		1,326,476		1,323,738	1,318,960	1,318,960	1,324,520	1,321,128	
1,302,709		119: 1,326,689		1,323,827	1,317,362	1,317,362	1,292,477	1,323,545	
64: 1,291,884		120: 1,307,487		1,324,281	1,317,626	1,317,626	1,294,475	1,297,401	
1,292,829		1,322,579		367: 1,294,227	1,317,712	1,317,712	1,298,429	1,309,312	
1,300,706		121: 1,314,597		373: 1,312,185	1,318,005	1,318,005	1,304,987	1,310,919	
1,318,664		122: 1,325,242		389: 1,304,385	1,318,693	1,318,693	1,307,896	1,311,148	
66: 1,305,314		134: 1,323,077		1,315,574	1,318,915	1,318,915	1,308,237	1,311,944	
1,309,871		135: 1,323,301		1,318,912	1,320,500	1,320,500	1,323,685	1,318,371	
68: 1,301,989		137: 1,323,406		391: 1,301,255	1,322,799	1,322,799	1,326,378	1,318,471	
69: 1,293,459		138: 1,321,765		392: 1,304,609	1,323,737	1,323,737	1,290,925	1,318,760	
1,310,735		144: 1,325,186		1,317,345	1,323,738	1,323,738	1,297,118	1,324,138	
1,321,932		147: 1,321,105		1,318,293	1,324,281	1,324,281	1,301,141	1,324,138	
1,323,907		169: 1,324,661		1,318,294	1,325,286	1,325,286	1,305,577	1,324,138	
70: 1,301,689		185: 1,323,788		1,324,201	1,326,203	1,326,203	1,312,605	1,292,783	
1,316,512		194: 1,326,661		396: 1,318,786	1,327,766	1,327,766	1,304,129	1,295,603	
71: 1,294,601		2: 1,308,989		399: 1,308,715	1,318,006	1,318,006	1,292,165	1,295,636	
1,300,666		4: 1,294,743		406: 1,292,932	1,318,006	1,318,006	1,317,939	1,295,836	
1,319,456		1,305,293		1,299,438	1,318,006	1,318,006	1,293,279	1,296,672	
1,320,827		1,307,332		420: 1,313,991	1,318,006	1,318,006	1,293,712	1,296,673	
74: 1,300,889		1,312,526		423: 1,296,233	1,318,006	1,318,006	1,293,712	1,303,748	
1,305,345		6: 1,300,882		426: 1,308,138	1,318,006	1,318,006	1,293,712	1,305,172	
1,311,818		1,315,971		428: 1,294,826	1,318,006	1,318,006	1,293,712	1,315,192	
1,317,352		1,325,172		1,303,718	1,318,006	1,318,006	1,293,712	1,315,193	
75: 1,320,892		6.5: 1,308,404		451: 1,314,630	1,318,006	1,318,006	1,293,712	1,315,288	
1,322,882		7: 1,311,435		451.1: 1,318,642	1,318,006	1,318,006	1,293,712	1,315,444	
77: 1,290,657				451.2: 1,312,583	1,318,006	1,318,006	1,293,		

## Classification of patents—Continued.

123— 78: 1,301,658 1,307,186 1,310,446 1,313,414 1,317,091 1,326,129 1,326,733	123— 122: 1,320,630 1,321,079 1,321,680 1,323,264 1,323,413 1,325,998 1,326,000	123— 154: 1,298,821 1,297,855 1,291,234 1,308,061 1,298,728 1,299,257 1,306,071 1,309,913 1,325,521	123— 169: 1,311,261 1,312,317 1,312,338 1,312,511 1,312,850 1,313,040 1,313,334 1,313,419 1,313,425 1,313,426 1,313,522 1,313,744 1,314,129 1,314,406 1,314,490 1,314,961 1,315,002 1,315,202 1,315,214 1,315,298 1,315,792 1,315,935 1,315,945 1,316,053 1,316,098 1,317,663 1,317,834 1,318,391 1,318,450 1,318,529 1,318,716 1,318,761 1,319,133 1,319,216 1,319,423 1,319,318 1,319,330 1,319,487 1,320,013 1,320,115 1,320,803 1,320,810 1,321,217 1,321,467 1,321,710 1,322,346 1,322,493 1,322,687 1,322,703 1,323,360 1,323,380 1,323,932 1,324,875 1,324,885 1,325,262 1,325,403 1,325,405 1,325,439 1,325,549 1,325,595 1,326,599 1,326,606 1,326,810	123— 173: 1,321,080 1,321,866 1,322,255 1,322,640 1,291,992 1,296,761 1,298,744 1,298,784 1,299,467 1,300,600 1,300,702 1,303,768 1,304,940 1,306,000 1,308,489 1,311,470 1,311,528 1,311,529 1,313,620 1,315,423 1,316,495 1,317,723 1,320,682 1,321,482 1,322,443 1,323,366 1,323,551 1,324,865 1,325,558 1,326,539 1,292,489 1,295,234 1,310,025 1,310,324 1,292,882 1,305,567 1,313,135 1,323,115 1,293,681 1,294,417 1,294,418 1,294,419 1,294,911 1,306,175 1,306,470 1,306,471 1,314,137 1,291,531 1,304,048 1,318,069 1,323,508 1,325,054 1,293,468 1,293,886 1,297,750 1,297,897 1,302,349 1,320,436 1,291,193 1,291,927 1,293,804 1,298,843 1,300,659 1,300,749 1,301,869 1,303,353 1,303,431 1,312,975 1,321,132 1,323,651 1,323,665 1,323,945 1,324,299 1,326,098 1,301,256 1,304,835 1,304,836 1,295,408 1,302,213 1,302,665 1,304,632 1,308,701 1,313,485 1,315,274 1,316,889 1,318,037 1,323,106 1,325,842 1,313,090 1,320,279 1,291,575 1,297,896 1,304,110 1,304,111 1,307,124 1,308,913 1,322,674 1,292,215 1,295,026 1,297,342 1,312,730 1,314,373	123— 190: 1,292,597 1,313,170 1,301,675 1,310,913 1,321,792 1,326,501 1,296,030 1,299,554 1,299,555 1,308,807 1,312,476 1,317,703 1,304,399 1,322,266 1,323,861 1,324,353 1,312,585 1,293,569 1,294,678 1,296,148 1,309,262 1,316,001 1,317,599 1,325,381 1,295,069 1,295,794 1,308,201 1,311,694 1,319,310 1,306,381 1,306,393 1,292,825 1,292,665 1,309,321 1,290,050 1,303,336 1,310,745 1,291,113 1,294,548 1,310,754 1,311,934 1,315,841 1,326,021 1,302,332 1,306,584 1,310,317 1,310,613 1,310,644 1,312,698 1,314,459 1,317,456 1,319,296 1,290,898 1,292,479 1,302,378 1,319,392 1,293,903 1,294,407 1,304,602 1,305,022 1,305,653 1,306,048 1,308,876 1,311,383 1,316,792 1,317,556 1,321,849 1,316,045 1,323,841 1,324,189 1,317,958 1,318,927 1,318,834 1,318,446 1,313,269 1,290,395 1,305,834 1,308,895 1,293,048 1,294,541 1,301,350 1,320,752 1,323,486 1,293,897 1,298,182 1,314,019 1,308,131 1,309,405 1,296,317 1,299,619 1,323,630 1,311,697 1,294,217 1,298,245 1,318,686 1,319,969 1,298,819 1,296,144	
79: 1,304,735 1,311,200 1,314,907 1,323,445 1,325,904	123: 1,316,754 1,290,195 1,317,844 1,323,766 1,324,436 1,290,711 1,299,609 1,303,708 1,304,888 1,305,464 1,311,044 1,323,456 1,325,999 1,317,709 1,320,630 1,300,208 1,324,824 1,312,660 1,318,588 1,290,183 1,290,374 1,292,457 1,292,981 1,293,601 1,299,602 1,293,192 1,299,220 1,301,053 1,319,857 1,321,693 1,315,758 1,317,931 1,312,387 1,312,638 1,323,139 1,323,274 1,293,520 1,295,801 1,317,900 1,324,406 1,293,467 1,295,528 1,296,006 1,297,102 1,297,662 1,308,707 1,318,399 1,318,596 1,322,554 1,313,762 1,302,855 1,316,730 1,320,954 1,301,807 1,316,977 1,317,948 1,292,309 1,294,000 1,301,851 1,301,985 1,314,131 1,319,256 1,295,206 1,296,115 1,296,116 1,296,705 1,299,790 1,299,805 1,300,344 1,303,991 1,304,808 1,307,457 1,309,985 1,311,020 1,312,190 1,314,948 1,319,633 1,322,415 1,323,006 1,323,048 1,323,414 1,325,058 1,325,266 1,326,381 1,295,000 1,295,916 1,297,350 1,304,738 1,306,496 1,311,417 1,311,532 1,313,096 1,318,068 1,318,265 1,319,271 1,319,718	123: 1,316,754 1,290,195 1,317,844 1,323,766 1,324,436 1,290,711 1,299,609 1,303,708 1,304,888 1,305,464 1,311,044 1,323,456 1,325,999 1,317,709 1,320,630 1,300,208 1,324,824 1,312,660 1,318,588 1,290,183 1,290,374 1,292,457 1,292,981 1,293,601 1,299,602 1,293,192 1,299,220 1,301,053 1,319,857 1,321,693 1,315,758 1,317,931 1,312,387 1,312,638 1,323,139 1,323,274 1,293,520 1,295,801 1,317,900 1,324,406 1,293,467 1,295,528 1,296,006 1,297,102 1,297,662 1,308,707 1,318,399 1,318,596 1,322,554 1,313,762 1,302,855 1,316,730 1,320,954 1,301,807 1,316,977 1,317,948 1,292,309 1,294,000 1,301,851 1,301,985 1,314,131 1,319,256 1,295,206 1,296,115 1,296,116 1,296,705 1,299,790 1,299,805 1,300,344 1,303,991 1,304,808 1,307,457 1,309,985 1,311,020 1,312,190 1,314,948 1,319,633 1,322,415 1,323,006 1,323,048 1,323,414 1,325,058 1,325,266 1,326,381 1,295,000 1,295,916 1,297,350 1,304,738 1,306,496 1,311,417 1,311,532 1,313,096 1,318,068 1,318,265 1,319,271 1,319,718	123— 154: 1,298,821 1,297,855 1,291,234 1,308,061 1,298,728 1,299,257 1,306,071 1,309,913 1,325,521 1,290,624 1,291,174 1,294,471 1,299,770 1,302,474 1,304,837 1,305,165 1,311,902 1,313,856 1,315,202 1,318,220 1,320,871 1,322,431 1,293,193 1,293,328 1,296,420 1,297,212 1,300,779 1,305,559 1,306,791 1,310,485 1,311,894 1,312,888 1,312,985 1,313,561 1,318,208 1,319,970 1,319,979 1,320,624 1,324,148 1,325,501 1,325,502 1,326,044 R. 14, 639 1,290,504 1,303,523 1,305,093 1,306,116 1,311,893 1,317,357 1,290,121 1,290,372 1,290,376 1,290,559 1,290,780 1,291,122 1,292,661 1,293,218 1,293,843 1,294,229 1,295,099 1,295,126 1,295,337 1,296,076 1,296,318 1,297,058 1,298,368 1,298,601 1,298,888 1,298,799 1,299,035 1,299,040 1,299,997 1,300,048 1,300,569 1,301,562 1,301,824 1,301,862 1,302,319 1,303,965 1,304,341 1,304,462 1,304,688 1,305,613 1,305,660 1,305,924 1,306,271 1,306,304 1,306,817 1,306,834 1,307,088 1,307,176 1,307,894 1,307,910 1,308,107 1,308,663 1,308,718 1,308,871 1,308,872 1,309,192 1,310,817 1,310,847 1,310,970 1,311,039	123— 169: 1,311,261 1,312,317 1,312,338 1,312,511 1,312,850 1,313,040 1,313,334 1,313,419 1,313,425 1,313,426 1,313,522 1,313,744 1,314,129 1,314,406 1,314,490 1,314,961 1,315,002 1,315,202 1,315,214 1,315,298 1,315,792 1,315,935 1,315,945 1,316,053 1,316,098 1,317,663 1,317,834 1,318,391 1,318,450 1,318,529 1,318,716 1,318,761 1,319,133 1,319,216 1,319,423 1,319,318 1,319,330 1,319,487 1,320,013 1,320,115 1,320,803 1,320,810 1,321,217 1,321,467 1,321,710 1,322,346 1,322,493 1,322,687 1,322,703 1,323,360 1,323,380 1,323,932 1,324,875 1,324,885 1,325,262 1,325,403 1,325,405 1,325,439 1,325,549 1,325,595 1,326,599 1,326,606 1,326,810 1,291,502 1,294,449 1,294,474 1,301,446 1,303,605 1,305,035 1,309,243 1,311,809 1,290,948 1,293,946 1,296,443 1,299,129 1,299,889 1,300,073 1,301,784 1,302,692 1,307,619 1,307,680 1,315,686 1,315,843 1,316,912 1,317,750 1,323,010 1,326,035 1,291,837 1,292,634 1,293,341 1,296,124 1,299,594 1,301,254 1,301,740 1,305,494 1,306,843 1,309,103 1,311,213 1,314,352 1,316,420 1,316,749 1,317,301 1,320,891	123— 173: 1,321,080 1,321,866 1,322,255 1,322,640 1,291,992 1,296,761 1,298,744 1,298,784 1,299,467 1,300,600 1,300,702 1,303,768 1,304,940 1,306,000 1,308,489 1,311,470 1,311,528 1,311,529 1,313,620 1,315,423 1,316,495 1,317,723 1,320,682 1,321,482 1,322,443 1,323,366 1,323,551 1,324,865 1,325,558 1,326,539 1,292,489 1,295,234 1,310,025 1,310,324 1,292,882 1,305,567 1,313,135 1,323,115 1,293,681 1,294,417 1,294,418 1,294,419 1,294,911 1,306,175 1,306,470 1,306,471 1,314,137 1,291,531 1,304,048 1,318,069 1,323,508 1,325,054 1,293,468 1,293,886 1,297,750 1,297,897 1,302,349 1,320,436 1,291,193 1,291,927 1,293,804 1,298,843 1,300,659 1,300,749 1,301,869 1,303,353 1,303,431 1,312,975 1,321,132 1,323,651 1,323,665 1,323,945 1,324,299 1,326,098 1,301,256 1,304,835 1,304,836 1,295,408 1,302,213 1,302,665 1,304,632 1,308,701 1,313,485 1,315,274 1,316,889 1,318,037 1,323,106 1,325,842 1,313,090 1,320,279 1,291,575 1,297,896 1,304,110 1,304,111 1,307,124 1,308,913 1,322,674 1,292,215 1,295,026 1,297,342 1,312,730 1,314,373	123— 190: 1,292,597 1,313,170 1,301,675 1,310,913 1,321,792 1,326,501 1,296,030 1,299,554 1,299,555 1,308,807 1,312,476 1,317,703 1,304,399 1,322,266 1,323,861 1,324,353 1,312,585 1,293,569 1,294,678 1,296,148 1,309,262 1,316,001 1,317,599 1,325,381 1,295,069 1,295,794 1,308,201 1,311,694 1,319,310 1,306,381 1,306,393 1,292,825 1,292,665 1,309,321 1,290,050 1,303,336 1,310,745 1,291,113 1,294,548 1,310,754 1,311,934 1,315,841 1,326,021 1,302,332 1,306,584 1,310,317 1,310,613 1,310,644 1,312,698 1,314,459 1,317,456 1,319,296 1,290,898 1,292,479 1,302,378 1,319,392 1,293,903 1,294,407 1,304,602 1,305,022 1,305,653 1,306,048 1,308,876 1,311,383 1,316,792 1,317,556 1,321,849 1,316,045 1,323,841 1,324,189 1,317,958 1,318,927 1,318,834 1,318,446 1,313,269 1,290,395 1,305,834 1,308,895 1,293,048 1,294,541 1,301,350 1,320,752 1,323,486 1,293,897 1,298,182 1,314,019 1,308,131 1,309,405 1,296,317 1,299,619 1,323,630 1,311,697 1,294,217 1,298,245 1,318,686 1,319,969 1,298,819 1,296,144
80: 1,291,316 1,295,013 1,295,429 1,295,774 1,298,132 1,299,264 1,304,839 1,305,695 1,308,722 1,309,906 1,310,301 1,313,001 1,313,033 1,318,354 1,320,776 1,323,210 1,321,580	127: 1,290,711 1,299,609 1,303,708 1,304,888 1,305,464 1,311,044 1,323,456 1,325,999 1,317,709 1,320,630 1,300,208 1,324,824 1,312,660 1,318,588 1,290,183 1,290,374 1,292,457 1,292,981 1,293,601 1,299,602 1,293,192 1,299,220 1,301,053 1,319,857 1,321,693 1,315,758 1,317,931 1,312,387 1,312,638 1,323,139 1,323,274 1,293,520 1,295,801 1,317,900 1,324,406 1,293,467 1,295,528 1,296,006 1,297,102 1,297,662 1,308,707 1,318,399 1,318,596 1,322,554 1,313,762 1,302,855 1,316,730 1,320,954 1,301,807 1,316,977 1,317,948 1,292,309 1,294,000 1,301,851 1,301,985 1,314,131 1,319,256 1,295,206 1,296,115 1,296,116 1,296,705 1,299,790 1,299,805 1,300,344 1,303,991 1,304,808 1,307,457 1,309,985 1,311,020 1,312,190 1,314,948 1,319,633 1,322,415 1,323,006 1,323,048 1,323,414 1,325,058 1,325,266 1,326,381 1,295,000 1,295,916 1,297,350 1,304,738 1,306,496 1,311,417 1,311,532 1,313,096 1,318,068 1,318,265 1,319,271 1,319,718	127: 1,290,711 1,299,609 1,303,708 1,304,888 1,305,464 1,311,044 1,323,456 1,325,999 1,317,709 1,320,630 1,300,208 1,324,824 1,312,660 1,318,588 1,290,183 1,290,374 1,292,457 1,292,981 1,293,601 1,299,602 1,293,192 1,299,220 1,301,053 1,319,857 1,321,693 1,315,758 1,317,931 1,312,387 1,312,638 1,323,139 1,323,274 1,293,520 1,295,801 1,317,900 1,324,406 1,293,467 1,295,528 1,296,006 1,297,102 1,297,662 1,308,707 1,318,399 1,318,596 1,322,554 1,313,762 1,302,855 1,316,730 1,320,954 1,301,807 1,316,977 1,317,948 1,292,309 1,294,000 1,301,851 1,301,985 1,314,131 1,319,256 1,295,206 1,296,115 1,296,116 1,296,705 1,299,790 1,299,805 1,300,344 1,303,991 1,304,808 1,307,457 1,309,985 1,311,020 1,312,190 1,314,948 1,319,633 1,322,415 1,323,006 1,323,048 1,323,414 1,325,058 1,325,266 1,326,381 1,295,000 1,295,916 1,297,350 1,304,738 1,306,496 1,311,417 1,311,532 1,313,096 1,318,068 1,318,265 1,319,271 1,319,718	127: 1,290,711 1,299,609 1,303,708 1,304,888 1,305,464 1,311,044 1,323,456 1,325,9			



## Classification of patents—Continued.

126—	9: 1,300,527	126—	86: 1,320,003	126—	256: 1,316,980	127—	9: 1,324,417	128—	148: 1,297,337	128—	327: 1,302,062
17: 1,300,992		88: 1,324,502		260: 1,298,769		15: 1,304,438		1,322,375		1,317,319	
1,313,754		90: 1,307,493		1,316,976		1,314,203		1,296,964		330: 1,320,427	
1,320,743		1,311,797		263: 1,303,618		1,297,737		1,305,828		332: 1,306,714	
19: 1,300,660		1,323,889		265: 1,321,574		1,309,425		1,312,493		1,318,491	
1,306,435		1,326,589		271: 1,325,596		1,319,320		153: 1,310,771		1,321,758	
20: 1,308,485		91: 1,304,154		271.1: 1,325,861		1,317,488		154: 1,319,299		339: 1,321,011	
1,314,004		1,319,252		271.2: 1,295,694		1,318,793		158: 1,294,709		340: 1,293,565	
1,319,781		1,322,444		1,312,934		1,325,461		1,313,165		342: 1,322,083	
21: 1,308,789		1,326,222		1,316,496		1,305,291		161: 1,317,012		345: 1,305,749	
22: 1,310,872		93: 1,297,621		1,321,980		1,320,719		1,319,580		352: 1,295,219	
24: 1,292,782		1,306,954		1,322,459		1,302,372		1,320,737		1,322,606	
1,319,322		96: 1,292,316		272: 1,301,428		2: 1,298,543		163: 1,324,975		1,326,800	
29: 1,298,762		1,298,517		1,302,170		7: 1,303,135		165: 1,304,558		356: 1,293,306	
30: 1,304,405		97: 1,294,831		1,307,089		12: 1,319,904		169: 1,303,903		1,305,773	
1,309,049		99: 1,295,407		1,315,072		13: 1,292,095		1,321,134		357: 1,305,442	
1,311,302		1,300,625		1,315,073		1,292,096		171: 1,313,138		1,326,616	
1,312,307		1,300,880		1,315,074		1,292,115		176: 1,294,835		359: 1,298,616	
31: 1,300,456		1,306,420		1,315,075		14: 1,311,409		179: 1,294,246		1,292,720	
1,315,296		1,308,335		1,315,076		14.1: 1,313,745		186: 1,304,339		1,294,585	
33: 1,301,469		1,314,113		1,318,885		16: 1,291,290		169: 1,309,880		1,304,455	
1,319,544		1,323,305		1,323,428		1,291,611		187: 1,296,946		1,304,812	
36: 1,296,237		1,323,809		275: 1,295,233		1,291,612		188: 1,318,266		1,313,588	
1,296,626		1,325,421		1,298,358		1,300,756		191: 1,308,509		1,323,181	
1,301,906		101: 1,295,275		1,311,705		18: 1,297,207		1,309,896		1,316,125	
1,304,665		1,320,276		1,316,631		1,303,546		195: 1,317,122		1,326,602	
1,308,269		102: 1,309,260		1,323,562		20: 1,311,313		196: 1,312,117		4: 1,290,512	
1,306,917		1,319,223		276: 1,291,006		23: 1,311,790		198: 1,311,461		1,324,283	
1,307,888		104: 1,319,654		281: 1,290,168		1,326,300		198: 1,311,461		5: 1,292,915	
1,307,713		106: 1,305,755		282: 1,325,506		28: 1,290,647		1,317,013		12: 1,313,240	
1,307,762		112: 1,293,074		283: 1,310,118		1,291,236		200: 1,314,736		15: 1,305,939	
1,308,970		1,295,666		285: 1,314,475		1,291,244		1,326,890		1,312,672	
1,309,100		1,310,811		288: 1,308,535		1,292,455		203: 1,302,133		16: 1,294,947	
1,311,181		1,325,522		292: 1,296,857		1,292,998		1,309,686		1,296,681	
1,315,008		114: 1,295,535		1,308,492		35: 1,301,866		1,320,900		1,296,851	
1,317,397		116: 1,292,877		1,325,237		36: 1,302,620		215: 1,308,919		1,296,919	
1,319,778		1,310,926		1,325,620		39: 1,301,711		1,319,243		1,296,956	
1,324,011		1,317,794		293: 1,300,788		1,308,427		216: 1,318,586		1,297,522	
1,324,314		1,325,905		295: 1,316,439		40: 1,312,619		218: 1,315,885		1,302,848	
1,325,106		117: 1,308,194		299: 1,321,027		47: 1,291,570		316,394		1,302,849	
1,325,767		119: 1,322,078		305: 1,325,953		49: 1,303,475		1,320,536		1,302,850	
37: 1,309,509		120: 1,297,964		309: 1,313,632		1,305,917		220: 1,317,314		1,303,778	
38: 1,302,911		1,322,603		314: 1,321,675		1,325,332		222: 1,325,660		1,304,180	
1,323,567		121: 1,313,085		317: 1,320,453		52: 1,291,256		226: 1,295,706		1,306,026	
39: 1,296,125		122: 1,298,495		318: 1,305,504		57: 1,310,950		227: 1,294,219		1,308,586	
1,296,209		127: 1,311,895		1,312,900		58: 1,305,439		1,308,954		1,311,771	
1,297,119		130: 1,306,612		1,324,900		1,305,595		231: 1,307,245		1,312,206	
1,299,623		1,326,812		1,324,955		1,322,720		1,313,610		1,314,425	
1,301,582		131: 1,309,424		1,325,650		59: 1,313,448		1,315,164		1,314,944	
1,302,419		1,314,968		319: 1,314,222		67: 1,322,924		234: 1,317,839		1,316,544	
1,314,520		141: 1,318,216		321: 1,313,788		69: 1,294,393		235: 1,316,222		1,317,261	
1,316,861		152: 1,298,351		334: 1,306,288		1,315,035		236: 1,326,452		1,322,642	
1,319,401		155: 1,321,252		338: 1,300,964		72: 1,322,235		239: 1,298,422		1,324,467	
1,321,189		162: 1,311,551		341: 1,291,953		73: 1,301,071		240: 1,314,855		1,325,525	
1,324,011		1,313,142		342: 1,318,290		74: 1,314,597		241: 1,306,184		1,317,684	
1,325,767		163: 1,299,020		345: 1,290,100		1,319,227		244: 1,304,054		1,317,851	
1,326,812		164: 1,310,371		346: 1,304,014		75: 1,314,002		1,320,286		1,311,207	
1,327,964		167: 1,314,009		350: 1,292,168		76: 1,319,054		1,326,342		1,317,392	
41: 1,294,159		170: 1,293,677		1,292,414		1,321,137		245: 1,324,862		1,294,948	
1,297,848		173: 1,318,852		1,307,521		1,316,915		247: 1,318,885		1,295,763	
1,308,412		176: 1,293,417		1,311,374		1,325,252		252: 1,306,303		1,295,837	
1,312,833		190: 1,315,039		1,312,997		79: 1,298,434		1,318,751		1,300,334	
1,320,497		191: 1,311,891		1,324,900		80: 1,301,491		256: 1,323,466		1,310,468	
42: 1,322,894		192: 1,307,163		1,325,650		81: 1,295,611		257: 1,313,861		1,317,642	
43: 1,305,671		194: 1,310,217		1,326,812		82: 1,296,722		258: 1,301,509		1,317,643	
1,309,418		196: 1,310,823		1,327,964		83: 1,313,181		1,318,411		1,317,644	
1,310,830		200: 1,292,586		1,328,070		84: 1,296,128		1,322,984		1,318,411	
1,325,515		202: 1,294,941		1,328,070		1,302,751		260: 1,319,115		1,317,265	
1,325,694		204: 1,307,817		1,328,070		86: 1,326,530		264: 1,315,474		1,319,816	
44: 1,297,545		206: 1,294,647		1,328,070		87: 1,298,529		1,325,699		1,320,479	
1,300,594		211: 1,326,048		1,328,070		1,313,344		269: 1,293,401		1,322,344	
45: 1,314,312		214: 1,307,219		1,328,070		1,326,717		1,309,201		19: 1,294,043	
46: 1,324,723		215: 1,293,214		1,328,070		88: 1,295,297		1,315,026		20: 1,309,594	
52: 1,291,314		229: 1,293,044		1,328,070		92: 1,302,176		272: 1,320,440		21: 1,316,615	
1,291,814		237: 1,319,288		1,328,070		94: 1,304,153		275: 1,301,708		1,316,885	
1,296,406		238: 1,308,957		1,328,070		96: 1,323,231		276: 1,316,340		1,320,683	
1,312,441		243: 1,315,259		1,328,070		1,326,717		284: 1,297,481		1,326,139	
1,312,655		244: 1,308,245		1,328,070		89: 1,301,491		1,322,276		23: 1,290,135	
53: 1,298,740		245: 1,322,159		1,328,070		90: 1,301,491		287: 1,300,510		288: 1,314,799	
1,305,647		246: 1,326,006		1,328,070		91: 1,302,369		289: 1,315,319		290: 1,317,722	
1,312,408		248: 1,304,728		1,328,070		105: 1,293,878		295: 1,318,872		297: 1,294,284	
1,316,940		252: 1,297,230		1,328,070		112: 1,314,123		299: 1,294,188		300: 1,314,409	
1,318,560		256: 1,316,979		1,328,070		121: 1,312,222		300: 1,314,409		304: 1,315,825	
1,326,700				1,328,070		127: 1,320,648		304: 1,315,825		305: 1,308,798	
54: 1,310,709				1,328,070		133: 1,298,158		1,310,183		309: 1,297,359	
56: 1,292,435				1,328,070		136: 1,302,004		1,299,928		31: 1,314,687	
58: 1,293,578				1,328,070		140: 1,315,163		1,308,728		35: 1,298,150	
1,295,606				1,328,070		141: 1,298,404		1,316,003		1,302,654	
1,298,164				1,328,070		1,299,075		1,323,104		41: 1,291,449	
1,315,078				1,328,070		1,310,825		1,324,976		1,292,046	
59.5: 1,317,959				1,328,070		1,315,515		1,324,976		1,299,694	
1,321,678				1,328,070		1,320,935		1,322,644		43: 1,295,041	
62: 1,326,740				1,328,070		1,323,217		1,322,644		1,299,684	
65: 1,297,183				1,328,070		1,323,217		1,322,644		1,325,691	
67: 1,314,440				1,328,070		1,323,217		1,322,644		4: 1,299,120	
68: 1,314,550				1,328,070		1,323,217		1,322,644		5: 1,291,938	
1,315,518				1,328,070		1,323,217		1,322,644			
70: 1,315,379				1,328,070		1,323,217		1,322,644			
71: 1,314,442				1,328,070		1,323,217		1,322,644			
73: R. 14, 648				1,328,070		1,323,217		1,322,644			
77: 1,305,764				1,328,070		1,323,217		1,322,644			
1,322,425				1,328,070		1,323,217		1,322,644			
85: 1,297,624											

## Classification of patents—Continued.

130—	5: 1,307,046 1,307,956 1,314,353 1,315,714 1,317,736 6: 1,322,303 7: 1,323,522 13: 1,302,867 1,307,322 15: 1,305,267 1,309,329 1,310,759 1,312,302 1,317,181 1,317,802 1,321,263 1,323,691 1,323,784 16: 1,301,277 1,315,775 17: 1,296,903 1,298,086 1,300,913 1,301,638 1,308,825 1,321,510 1,323,306 1,324,293 18: 1,291,278 1,292,820 1,294,030 1,296,791 1,298,988 1,299,278 1,299,379 1,306,870 1,309,401 1,314,864 1,323,877 1,325,219 19: 1,308,998 22: 1,301,670 1,301,671 1,306,239 1,314,270 24: 1,325,480 27: 1,290,485 1,290,610 1,291,571 1,301,361 1,302,573 1,302,574 1,306,028 1,316,130 29: 1,304,123 30: 1,295,605 1,298,488 1,302,005 1,303,195 1,304,765 1,309,207 1,309,910 1,311,074 1,321,185 1,325,150 1,325,989 1,326,164 31: 1,302,903 1,311,191 1,322,085 1,322,990 32: R. 14, 638 1,290,339 1,293,175 1,293,176 1,293,177 1,293,584 1,295,172 1,295,642 1,295,812 1,296,383 1,296,475 1,296,564 1,297,176 1,299,181 1,300,090 1,301,109 1,302,002 1,304,719 1,307,458 1,309,196 1,310,394 1,310,921 1,312,098 1,315,693 1,316,165 1,317,479 1,317,573 1,318,990 1,321,661 1,321,677 1,321,851 1,322,420	130—	32: 1,325,909 1,326,117 131—	5: 1,296,548 1,299,050 1,300,311 1,300,948 1,304,598 1,307,003 1,315,838 1,316,850 6: 1,294,310 1,304,539 1,317,614 10: 1,290,524 1,290,960 1,295,977 1,308,113 1,313,132 1,314,456 1,319,358 1,319,622 11: 1,295,722 1,310,835 1,310,949 1,317,349 12: 1,290,791 1,291,053 1,292,647 1,292,648 1,295,419 1,297,895 1,302,047 1,302,270 1,303,629 1,304,475 1,307,978 1,308,612 1,310,404 1,310,556 1,312,042 1,313,280 1,313,796 1,316,472 1,320,239 13: 1,316,744 1,317,187 21: 1,306,374 1,311,757 1,322,648 30: 1,291,454 1,298,415 1,305,467 1,310,527 1,318,939 31: 1,319,788 1,325,060 34: 1,316,056 1,320,631 37: 1,321,591 1,294,358 1,294,479 1,313,467 39: 1,303,855 1,305,313 1,326,547 41: 1,302,153 42: 1,296,724 1,302,396 1,316,371 1,318,777 1,321,692 43: 1,312,525 47: 1,324,864 48: R. 14, 732 1,295,765 49: R. 14, 601 1,318,776 51: 1,293,529 1,294,403 1,294,815 1,295,652 1,296,521 1,301,933 1,309,707 1,312,530 1,316,343 1,323,489 52: 1,294,107 1,312,490 1,315,209 57: 1,295,452 1,301,193 1,316,054 1,325,144 59: 1,293,197 1,295,269 1,310,652 1,311,618 60: 1,311,183 61: 1,292,409 62: 1,292,853 2: 1,318,762	132—	3: 1,302,247 1,305,226 1,308,857 1,311,330 1,314,158 1,322,268 1,322,639 1,323,463 9: 1,313,232 10: 1,301,687 12: 1,291,282 1,306,689 13: 1,306,998 1,316,807 17: 1,291,028 1,297,098 1,297,789 1,317,064 1,319,144 18: 1,290,684 1,301,867 1,306,068 1,310,557 1,310,914 1,319,180 1,320,099 1,323,565 1,326,893 19: 1,290,622 1,293,304 1,301,755 1,322,899 1,326,710 22: 1,305,309 1,306,589 1,308,833 1,309,334 1,313,137 1,313,750 1,315,926 1,316,981 1,319,671 23: 1,300,881 24: 1,292,100 25: 1,292,528 1,305,694 1,306,989 1,308,296 30: 1,290,911 1,293,404 1,296,565 1,315,096 32: 1,292,084 1,312,896 1,317,689 33: 1,298,633 34: 1,290,671 1,309,713 1,317,918 35: 1,298,750 1,303,720 1,310,755 1,313,063 60: 1,307,430 2: 1,293,548 3: 1,304,937 4: 1,290,429 1,291,416 1,298,751 1,299,196 1,302,961 1,311,174 6: 1,309,991 13: 1,317,358 14: 1,315,133 1: 1,311,215 1,311,216 1,311,217 1,311,218 1,311,219 1,314,191 1,316,227 1,316,531 8: 1,307,059 12: 1,305,146 1,320,508 13: 1,311,301 15: 1,293,107 1,326,079 17: 1,293,949 1,302,065 1,312,007 1,315,109 1,315,110 17.5: 1,299,273 1,302,416 1,317,111 1,320,327 21: 1,292,721 1,317,616 1,318,106 22: 1,299,663 1,311,964	134—	22: 1,313,343 1,321,518 24: 1,295,584 1,301,823 1,302,320 1,303,672 1,305,684 1,309,171 1,314,482 1,317,171 1,319,475 1,325,686 25: 1,304,163 26: 1,292,907 1,292,908 1,294,836 1,297,328 1,298,159 1,303,782 1,305,790 1,307,805 1,308,575 1,309,967 1,310,158 1,314,613 1,315,137 1,315,658 1,324,649 1,326,579 28: 1,306,192 31: 1,309,292 32: 1,296,858 1,320,631 38: 1,325,971 39: 1,290,035 1,308,884 1,317,469 40: 1,315,748 44: 1,316,881 1,317,225 45: 1,309,782 46: 1,308,136 1,314,301 48: 1,308,092 1,316,674 50: 1,305,331 51: 1,302,090 52: 1,296,776 53: 1,292,964 1,311,945 56: 1,303,671 57: 1,291,185 1,291,186 1,294,422 58: 1,313,874 1,315,011 1,317,164 1,317,165 1,325,561 59: 1,295,730 60: 1,303,362 1,304,729 67: 1,297,934 68: 1,325,960 72: 1,317,784 78 6: 1,318,524 79: 1,298,199 1,303,563 1,308,803 1,310,841 1,315,216 1,320,290 1,320,458 1,321,611 1,321,633 1,321,634 1,323,624	135—	26: 1,307,938 1,310,451 1,313,966 28: 1,297,469 30: 1,290,245 1,313,899 1,326,672 33: 1,310,399 38: 1,297,470 44: 1,314,230 47: 1,293,526 1,324,554 48: 1,325,444 49: 1,292,503 1,323,629 50: 1,317,386 1,322,084 51: 1,296,728 1,303,721 52: 1,298,211 1,298,714 1,311,664 1,312,030 1,318,505 1,322,800 53: 1,298,721 1,304,978 1,305,867 1,313,422 1,314,000 1,314,193 1,319,584 53.2: 1,312,904 2: 1,301,025 5: 1,303,055 1,307,821 1,308,001 6: 1,298,796 1,312,523 7: 1,304,155 10: 1,291,862 1,294,762 1,306,156 1,306,301 11: 1,298,007 1,315,554 12: 1,295,165 1,306,966 21: 1,303,864 64: 1,294,373 70: 1,304,200 71: 1,304,036 76: 1,304,174 109: 1,304,003 111: 1,304,157 1,304,195 139: 1,304,495 4: 1,290,587 1,290,736 1,291,795 1,292,062 1,292,603 1,292,673 1,293,976 1,294,166 1,294,491 1,298,317 1,303,801 5: 1,294,112 1,325,303 7: 1,291,631 1,293,095 1,293,753 1,302,377 9: 1,312,169 1,312,738 13: 1,294,888 1,296,714 1,297,001 1,303,449 1,306,578 1,307,346 1,310,521 1,311,814 1,316,799 1,316,969 1,323,351 1,325,393 14: 1,291,926 1,291,931 1,315,813 1,320,907 1,321,037 17: 1,295,166 1,301,211 1,309,732 1,310,964 1,316,449 18: 1,296,794 1,308,928 20: 1,317,324 1,324,383 21: R. 14, 775 1,294,265	137—	21: 1,296,239 1,297,985 1,300,383 1,300,869 1,302,033 1,304,777 1,319,057 1,319,791 1,321,513 1,325,800 26: 1,308,829 27: 1,290,064 1,297,184 28: 1,319,457 31: 1,316,734 1,322,604 32: 1,292,229 1,292,613 1,292,962 1,295,979 1,302,844 1,305,041 1,306,186 1,322,951 53: 1,290,030 1,290,291 1,291,497 1,293,178 1,294,369 1,294,377 1,297,975 1,299,398 1,301,993 1,305,615 1,305,747 1,305,964 1,308,165 1,317,885 1,321,527 1,322,179 1,322,638 1,323,909 1,325,508 57: 1,296,542 1,299,958 1,307,514 1,317,540 1,322,466 58: 1,292,898 1,294,373 1,312,721 59: 1,290,080 63: R. 14, 668 1,293,534 1,297,135 1,297,136 1,314,277 1,320,029 1,320,273 1,322,359 1,325,513 64: 1,290,393 1,302,227 66: 1,294,749 1,311,938 1,321,950 1,323,867 67: 1,294,551 1,297,622 1,299,076 1,300,014 1,300,823 1,303,201 1,316,721 68: 1,294,531 1,307,909 1,318,676 1,323,830 1,324,142 69: 1,294,002 1,303,472 1,306,582 1,309,808 1,314,584 70: 1,290,408 1,293,604 1,295,347 1,296,205 1,305,925 1,308,469 1,311,866 1,312,404 71: 1,318,158 1,323,955 1,324,310 72: 1,292,941 1,295,687 1,299,671 1,322,014 73: 1,294,052 1,317,870 1,325,990 1,326,392
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## Classification of patents—Continued.

137— 75: 1,291,552	137— 101: 1,317,940	137— 153: 1,290,122	139— 22: 1,322,789	139— 85: 1,291,624	140— 87: 1,319,909
1,291,602	1,322,324	1,290,123	1,322,790	1,292,057	1,321,322
1,291,645	1,325,632	1,290,523	1,325,065	1,292,058	88: 1,294,160
1,291,646	102: 1,318,213	1,294,578	23: 1,304,879	1,292,373	1,307,735
1,293,360	103: 1,291,962	1,301,649	1,309,997	1,292,382	90: 1,290,477
1,294,465	1,297,659	1,302,251	1,322,916	1,292,989	1,292,604
1,295,630	1,299,142	1,305,059	27: 1,296,825	1,293,030	91: 1,293,119
1,298,258	1,302,948	1,305,320	1,302,629	1,294,534	93: 1,293,267
1,299,441	1,304,562	1,312,040	1,303,583	1,294,871	1,305,422
1,300,115	1,304,563	1,321,261	1,324,991	1,294,872	1,320,515
1,300,380	1,307,288	154: 1,293,742	28: 1,296,702	1,297,420	1,322,971
1,300,512	1,308,897	1,322,911	1,302,670	1,298,352	102: 1,297,461
1,301,096	1,309,604	155: 1,297,818	1,326,289	1,298,860	1,305,921
1,301,194	1,310,501	1,298,973	29: 1,315,608	1,299,613	1,326,541
1,302,744	1,316,171	1,305,358	32: 1,290,923	1,300,971	102.5: 1,306,163
1,305,491	1,316,843	1,307,634	1,292,007	1,301,082	103: 1,311,187
1,308,072	104: 1,290,883	1,308,371	1,314,303	1,302,039	1,326,031
1,309,395	1,290,905	157: 1,294,360	1,324,584	1,303,886	104: 1,316,257
1,310,715	1,294,908	1,305,603	36: 1,324,173	1,307,015	105: 1,298,533
1,311,025	1,295,306	1,295,027	1,325,404	1,307,024	1,313,509
1,311,277	1,295,789	1,297,249	39: 1,311,746	1,307,334	1,307,409
1,312,816	1,295,987	1,326,603	40: 1,310,401	1,307,994	1,307,994
1,313,179	1,298,668	160: 1,323,675	43: 1,310,402	1,308,193	1,308,193
1,313,667	1,299,708	138— 1: 1,301,225	46: 1,301,611	1,308,227	1,308,227
1,314,699	1,299,851	2: R. 14, 738	1,296,645	1,308,246	1,313,488
1,314,666	1,299,952	1,292,029	1,307,336	1,308,266	1,324,583
1,315,548	1,302,538	1,300,781	1,312,666	1,309,202	1,303,788
1,317,495	1,308,382	1,302,376	1,315,946	1,309,226	1,321,314
1,318,551	1,310,085	1,303,317	1,324,932	1,310,793	122: 1,314,079
1,320,785	1,311,713	1,307,281	1,324,933	1,311,747	129: 1,295,044
1,323,383	1,312,329	1,309,076	47: 1,301,393	1,312,750	130: 1,309,662
1,323,880	1,312,678	1,314,153	1,321,944	1,313,349	131: 1,291,141
1,324,602	1,313,029	1,316,583	1,320,961	1,313,350	1,291,142
1,324,929	1,313,797	9: 1,292,498	1,300,147	1,315,631	1,316,310
1,324,980	1,313,831	1,295,471	1,301,701	1,316,059	140: 1,313,024
1,325,024	1,314,160	1,297,091	1,304,764	1,316,060	141: 1,309,664
1,325,611	1,316,583	1,299,668	1,305,402	1,317,787	142: 1,317,444
1,325,612	1,320,132	1,315,871	1,322,857	1,317,823	144: 1,309,661
1,326,078	1,321,673	1,323,688	1,322,933	1,317,833	235: 1,322,136
76: 1,317,565	1,323,960	10: 1,292,014	1,323,055	1,319,777	141— 3: 1,317,523
1,326,435	1,324,844	1,292,355	49: 1,319,196	1,320,608	1,317,558
77: 1,315,325	106: 1,297,280	1,307,586	50: 1,316,810	1,321,275	1,318,111
1,324,271	107: 1,299,897	1,307,764	51: 1,296,676	1,321,276	6: 1,298,489
78: 1,290,513	1,322,803	1,311,540	1,307,012	1,321,315	7: 1,290,565
1,294,061	109: 1,290,785	14: 1,298,067	1,322,605	1,322,032	1,292,278
1,304,529	1,291,163	16: 1,290,161	1,326,262	1,322,812	1,292,407
79: 1,290,037	1,295,677	1,292,013	1,311,767	1,322,851	1,292,994
1,295,638	1,297,399	1,293,858	1,294,650	1,323,186	1,293,286
1,321,131	1,312,623	1,313,528	1,321,762	1,325,207	1,294,469
80: 1,290,526	1,314,066	1,321,856	1,301,280	1,325,216	1,296,290
1,295,612	1,320,449	1,302,246	52: 1,311,767	1,294,671	1,297,299
1,302,515	110: 1,290,583	1,312,322	1,321,762	1,306,189	1,298,096
1,307,875	1,311,833	1,319,583	54: 1,296,697	1,323,925	1,298,295
1,308,613	111: 1,316,637	1,308,121	1,301,280	1,300,102	1,299,507
82: 1,301,719	1,316,739	1,323,590	56: 1,297,751	1,302,965	1,302,481
83: 1,295,250	1,324,545	1,310,795	58: 1,290,346	1,313,755	1,303,085
84: 1,305,411	112: 1,313,624	1,322,671	1,318,853	1,291,102	1,303,186
86: 1,293,108	1,290,335	1,319,819	1,307,241	1,307,022	1,304,260
1,295,922	1,293,111	1,320,936	1,308,121	1,325,350	1,305,370
1,300,615	113: 1,316,876	19: 1,294,760	1,310,398	1,318,412	1,306,478
1,309,596	122: 1,291,148	20: 1,310,712	1,319,819	1,292,175	1,309,785
1,309,597	1,298,446	21: 1,313,965	1,300,306	1,302,327	1,310,128
1,310,687	1,326,647	36: 1,320,936	1,303,620	1,304,661	1,313,703
1,310,938	1,326,768	9: 1,304,918	1,305,373	1,304,846	1,313,706
1,311,840	1,326,897	1,319,768	1,314,917	1,304,875	1,313,814
1,311,841	139: 1,291,987	1,320,996	1,322,657	1,310,799	1,314,041
1,319,527	1,293,908	1,322,202	1,295,898	1,317,024	1,316,457
1,322,932	1,295,658	1,324,627	1,298,949	95: 1,305,705	1,317,303
1,324,579	1,298,298	10: 1,310,902	1,322,715	1,305,706	1,319,577
1,326,488	1,299,850	12: 1,313,596	1,322,731	1,306,097	1,320,420
87: 1,299,380	1,300,396	1,315,912	66: 1,301,216	1,306,138	1,320,513
1,309,225	1,300,423	1,318,408	67: 1,300,121	1,310,799	1,320,633
90: 1,301,354	1,300,685	1,323,733	1,306,190	1,297,340	1,321,279
1,314,333	1,302,104	14: 1,292,612	1,306,066	2: 1,320,949	1,322,439
1,314,670	1,304,965	16: 1,299,461	1,307,008	3: 1,290,951	1,323,604
91: 1,291,577	1,305,026	1,299,771	1,317,704	1,317,679	9: R. 14, 612
1,303,402	1,307,207	1,312,779	1,319,709	1,317,726	1,292,495
92: 1,303,248	1,307,450	1,323,437	1,319,710	6: 1,310,966	1,292,497
1,320,696	1,307,899	17: 1,320,997	1,319,710	8: 1,293,540	1,293,676
93: 1,297,563	1,311,889	1,317,737	72: 1,291,134	1,306,859	1,293,848
1,297,836	1,314,243	1,319,759	73: 1,309,674	1,301,518	1,293,962
1,298,849	1,314,244	1,322,708	1,314,798	11: 1,319,162	1,295,470
1,311,365	1,314,914	1,295,196	74: 1,323,564	14: 1,307,563	1,299,686
93: 1,319,022	1,319,154	1,301,900	75: 1,294,809	25: 1,300,025	1,306,089
1,322,645	1,321,750	1,316,159	78: 1,312,751	1,324,619	1,306,123
1,323,519	1,322,906	1,296,024	83: 1,302,437	30: 1,294,314	1,311,179
97: 1,310,733	1,322,906	1,296,025	85: 1,290,108	36: 1,316,000	1,312,414
1,311,439	1,324,409	1,320,742	1,290,661	71: 1,304,780	1,313,455
1,325,543	1,324,947	21: 1,301,298	1,290,973	1,324,024	1,314,622
99: 1,291,303	1,325,223	1,314,149	1,291,058	1,325,047	1,315,181
1,292,069	1,325,791	22: 1,294,238	1,291,059	73: 1,310,003	1,323,199
1,296,275	1,326,046	1,295,431	1,291,101	1,310,791	1,323,216
100: 1,315,853	140: 1,301,818	1,305,799	1,291,103	1,315,083	1,325,246
1,318,210	1,302,749	1,311,053	1,291,104	82: 1,319,163	1,298,725
101: 1,290,865	1,311,931	1,312,960	1,291,224	87: 1,301,559	1,323,078
1,296,206	1,319,463	1,315,388	1,291,415	1,309,660	1,298,207
1,296,881	144: 1,290,722		1,291,623	1,309,663	1,309,543
1,302,329	1,309,611				
1,302,350	145: 1,317,588				
1,302,928	1,319,502				
1,313,373	146: 1,290,640				
1,315,651	152: 1,305,403				
1,316,991	1,325,615				

## Classification of patents—Continued.

142—	1: 1,307,699 1,310,937 1,313,064 5: 1,323,569 7: 1,291,332 1,294,500 1,294,683 1,294,684 13: 1,305,007 1,307,499 15: 1,293,276 1,302,303 37: 1,295,392 42: 1,309,046 44: 1,319,046 53: 1,319,684 55: 1,314,544 1,316,535	143—	6: 1,313,606 1,319,272 11: 1,293,481 1,316,555 17: 1,303,809 19: 1,291,002 1,309,901 1,321,882 24: 1,296,488 1,302,949 32: 1,319,712 33: 1,299,831 36: 1,314,291 41: 1,323,138 43: 1,291,181 1,298,270 1,303,908 1,304,859 1,313,107 1,316,556 1,316,743 1,318,324 1,319,571 1,323,923 46: 1,301,251 1,309,017 1,312,964 52: 1,304,872 54: 1,321,917 56: 1,309,824 58: 1,323,440 63: 1,309,781 1,318,594 68: 1,291,630 1,294,368 1,300,650 1,301,337 1,302,333 1,302,770 1,302,932 1,303,561 1,305,479 1,323,465 1,324,032 1,326,713 69: 1,307,304 88: 1,290,188 1,295,748 1,301,519 89: 1,316,306 1,320,197 102: 1,317,132 1,324,117 123: 1,291,719 141: 1,295,477 1,326,796 1,326,797 145: 1,326,032 151: 1,308,541 152: 1,294,554 153: 1,311,387 157: 1,299,752 1,321,031 1,324,325 159: 1,302,445 1,311,508 1,312,651 1,311,593 1,322,743 162: 1,304,128 163: 1,312,661 1,316,127 168: 1,308,659 1,316,051 169: 1,299,367 1,319,179 174: 1,295,587 144—	1: 1,300,415 1,300,892 2: 1,300,305 1,312,450 1,313,708 1,316,042 1,317,159 1,318,851	144—	2: 1,320,356 1,321,044 1,321,240 1,321,981 1,326,829 3: 1,297,125 1,307,714 7: 1,296,424 9: 1,300,614 23: 1,291,703 1,307,077 25: 1,297,391 1,297,392 26: 1,290,336 27: 1,295,386 32: 1,320,375 34: 1,322,468 51: 1,313,471 60: 1,326,633 61: 1,299,995 1,300,763 1,305,561 64: 1,292,896 1,319,744 76: 1,297,577 80: 1,305,269 82: 1,323,828 91: 1,320,422 1,320,423 105: 1,305,968 112: 1,300,663 113: 1,311,626 114: 1,295,179 116: 1,292,577 117: 1,294,426 1,305,734 1,306,249 1,319,557 118: 1,314,834 119: 1,312,873 133: 1,298,065 1,300,064 134: 1,298,531 136: 1,306,252 1,316,959 1,318,622 145: 1,293,956 1,300,815 1,325,671 146: 1,319,689 1,311,633 155: 1,305,421 193: 1,304,528 1,310,600 1,319,656 200: 1,309,613 207: 1,306,889 1,310,223 208: 1,294,275 1,300,536 1,300,730 1,300,748 1,300,795 1,301,188 1,301,199 1,311,225 1,311,226 1,312,633 1,319,935 1,320,437 1,324,193 209: 1,293,230 1,298,604 219: 1,313,710 1,326,135 225: 1,294,638 230: 1,298,737 1,305,650 1,308,297 1,315,536 232: 1,301,129 233: 1,317,113 235: 1,313,950 1,315,734 238: 1,325,900 242: 1,293,802 1,314,514 245: 1,300,241 1,300,649 246: 1,295,875 1,301,200 247: 1,302,717 1,302,718 251: 1,301,401 1,308,027 268: 1,318,044 281: 1,297,219 286: 1,313,604 288: 1,295,463 1,301,424 1,303,437 1,303,488 1,303,596	144—	288: 1,326,188 289: 1,291,519 1,297,539 1,321,572 1,326,186 291: 1,308,084 1,311,632 1,312,615 295: 1,299,640 1,315,915 296: 1,292,112 1,308,673 297: 1,312,230 1,313,268 298: 1,298,580 303: 1,319,900 304: 1,319,717 307: 1,290,637 1,308,922 1,320,116 309: 1,299,705 1,299,747 1,301,410 1,313,709 1,314,007 1,322,253 1,322,792 2: 1,321,143 3: 1,292,531 1,296,401 1,303,090 1,318,612 1,322,669 5: 1,291,856 1,296,911 1,322,011 1,325,101 9: 1,296,910 16: 1,324,486 21: 1,312,873 22: 1,290,039 24: 1,323,937 29: 1,297,386 31: 1,305,159 33: 1,292,275 1,313,900 35: 1,297,689 1,315,101 1,316,518 1,317,430 1,323,591 36: 1,298,382 46: 1,293,394 47: 1,292,461 1,300,551 1,301,538 50: 1,300,275 1,325,070 51: 1,325,383 52: 1,311,147 53: 1,290,489 54: 1,304,714 61: 1,296,416 1,304,647 64: 1,309,281 1,315,901 67: 1,324,258 68: 1,294,216 69: 1,320,488 108: 1,318,481 111: 1,294,553 1,301,315 1,301,436 1,312,425 1,324,712 113: 1,301,522 1,303,492 1,299,490 1,321,007 119: 1,311,265 120: 1,316,201 121: 1,308,609 122: 1,293,265 1,297,740 128: 1,323,570 1,294,852 3: 1,294,852 1,315,557 1,317,342 1,318,182 1,319,810 1,320,968 1,322,393 5: 1,305,395 1,307,692 1,318,180 1,318,181 6: 1,292,261 1,293,351 1,294,336 1,311,265 1,317,263 1,321,311	145—	2: 1,321,143 3: 1,292,531 1,296,401 1,303,090 1,318,612 1,322,669 5: 1,291,856 1,296,911 1,322,011 1,325,101 9: 1,296,910 16: 1,324,486 21: 1,312,873 22: 1,290,039 24: 1,323,937 29: 1,297,386 31: 1,305,159 33: 1,292,275 1,313,900 35: 1,297,689 1,315,101 1,316,518 1,317,430 1,323,591 36: 1,298,382 46: 1,293,394 47: 1,292,461 1,300,551 1,301,538 50: 1,300,275 1,325,070 51: 1,325,383 52: 1,311,147 53: 1,290,489 54: 1,304,714 61: 1,296,416 1,304,647 64: 1,309,281 1,315,901 67: 1,324,258 68: 1,294,216 69: 1,320,488 108: 1,318,481 111: 1,294,553 1,301,315 1,301,436 1,312,425 1,324,712 113: 1,301,522 1,303,492 1,299,490 1,321,007 119: 1,311,265 120: 1,316,201 121: 1,308,609 122: 1,293,265 1,297,740 128: 1,323,570 1,294,852 3: 1,294,852 1,315,557 1,317,342 1,318,182 1,319,810 1,320,968 1,322,393 5: 1,305,395 1,307,692 1,318,180 1,318,181 6: 1,292,261 1,293,351 1,294,336 1,311,265 1,317,263 1,321,311	146—	6: 1,326,373 7: R. 14,704 1,291,149 1,292,160 1,294,033 1,294,766 1,296,091 1,296,102 1,306,783 1,312,361 1,313,273 1,314,026 1,315,056 1,317,690 1,318,038 1,320,261 1,320,294 1,321,015 1,322,709 1,322,738 1,324,778 23: 1,326,613 9: 1,290,732 1,308,668 1,310,572 1,317,628 1,323,750 1,324,389 11: 1,291,178 1,294,890 1,298,520 1,299,233 1,303,617 1,304,892 1,310,918 1,312,335 1,317,050 1,319,371 1,323,073 1,325,159 1,326,082 12: 1,297,712 1,302,592 1,307,397 1,307,552 1,308,600 1,313,900 1,315,101 1,316,518 1,317,430 1,323,591 14: 1,290,396 1,294,335 1,295,631 1,296,130 1,296,131 1,301,297 1,302,374 1,304,079 1,304,716 1,307,693 1,311,496 1,312,332 1,312,381 1,317,898 1,319,541 1,320,983 1,322,300 1,325,847 15: 1,321,640 26: 1,303,352 1,316,081 29: 1,324,147 30: 1,306,500 1,318,974 147—	1: 1,294,950 6: 1,326,261 7: 1,315,275 1,294,758 25: 1,305,053 1,321,285 1,322,528 36: 1,320,646 1,311,306 48: 1,298,230 1,298,231 1,298,232 1,298,233 6: 1,290,476 1,291,352 1,315,017 1,317,351 7: 1,311,319 1,318,027 8: 1,319,508 1,320,669 1,304,803 1,321,182 1,326,585 1,292,352 1,311,722 1,319,085 1,320,309 1,321,504	148—	11: 1,326,775 12: 1,295,568 1,299,878 1,303,727 1,317,055 1,318,748 1,321,530 1,293,078 1,296,649 1,303,892 1,310,075 1,318,367 1,325,626 1,325,987 16: 1,298,607 1,319,612 18: 1,304,946 19: 1,292,652 21: 1,304,948 1,309,137 23: 1,293,823 1,316,422 1,321,529 24: 1,315,611 1,324,892 25: 1,312,154 1,321,454 26: 1,301,653 28: 1,296,951 29: 1,310,020 30: 1,292,044 1,307,465 1,308,239 1,310,918 1,312,335 1,317,728 1,322,298 37: 1,310,074 112: 1,316,479 149—	1: 1,304,256 2: 1,304,030 4: R. 14,719 1,297,255 1,303,176 1,321,730 1,323,956 5: 1,303,177 8: 1,305,774 11: 1,310,749 12: 1,314,342 15: 1,307,732 1,311,749 1,316,763 1,325,988 16: 1,303,840 21: 1,299,672 1,307,522 1,310,148 1,320,100 1,320,223 150—	1: 1,308,263 1,314,343 1,314,555 1,317,102 1,324,533 1,325,485 2: 1,300,065 1,307,256 1,317,532 1,322,320 3: 1,310,869 1,318,652 1,318,974 5: 1,316,919 6: 1,319,529 7: 1,291,480 1,308,028 1,311,923 8: 1,298,193 1,310,448 1,320,646 19: 1,297,277 20: 1,295,834 27: 1,318,813 28: 1,291,914 1,321,274 29: 1,294,267 32: 1,305,569 38: 1,307,324 1,310,010 39: 1,310,621 48: 1,311,869 49: 1,303,757 1,308,268 1,310,669 1,292,088 52: 1,302,392 1,303,224 1,307,089 1,314,608 1,317,641 1,320,869 1,321,504	150—	54: 1,322,866 151—	1: 1,316,112 2: 1,290,406 1,293,338 1,305,359 1,313,409 1,315,107 1,315,469 3: 1,309,463 1,311,727 1,314,433 4: 1,310,723 5: 1,299,794 1,304,667 1,308,505 1,317,332 1,320,095 1,320,475 7: 1,297,845 10: 1,321,212 11: 1,302,105 1,305,729 1,323,467 13: 1,293,755 1,321,033 14: 1,324,822 15: 1,303,715 1,321,270 17: 1,290,357 1,296,038 1,305,698 1,325,801 18: 1,308,285 19: 1,293,180 1,303,784 1,306,418 1,308,026 1,308,672 1,315,160 1,318,865 1,324,012 20: 1,301,049 1,326,279 21: 1,291,114 1,298,469 1,298,583 1,299,702 1,299,727 1,311,139 1,312,810 1,313,075 1,321,894 1,322,972 22: 1,300,801 23: 1,294,410 1,320,271 24: 1,292,707 1,301,314 1,320,865 1,323,571 1,324,061 25: 1,294,737 1,294,944 1,294,995 1,306,600 1,309,421 1,309,817 1,313,759 1,315,934 1,319,861 1,319,894 1,325,125 26: 1,298,994 27: 1,299,691 28: 1,290,450 1,296,003 1,301,958 1,317,058 29: 1,300,617 1,307,861 1,314,164 1,315,284 1,317,567 1,320,962 1,322,434 30: 1,319,279 1,320,161 1,323,806 32: 1,310,213 1,319,948 1,321,796 33: 1,293,524 1,325,340 34: 1,294,550 35: 1,323,188 37: 1,316,084 38: 1,320,259 39: 1,302,858 41: 1,320,006 42: 1,324,023 52: 1,292,970 1,316,344
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## Classification of patents—Continued.

151—	53:	1,300,131	152—	8:	1,310,513	152—	12:	1,318,917	152—	14:	1,324,395	152—	21:	1,291,896	152—	21:	1,320,913
		1,300,132			1,312,072			1,319,155			1,325,141			1,291,930			1,321,848
		1,310,167			1,313,506			1,319,280			1,325,245			1,292,139			1,321,888
		1,311,011			1,313,541			1,321,791			1,325,321			1,292,344			1,321,921
	54:	1,296,174			1,314,540			1,323,583			1,325,333			1,292,448			1,322,005
	57:	1,313,589			1,314,582			1,322,905			1,325,389			1,292,488			1,322,096
	59:	1,291,070			1,314,764			1,325,087			1,326,513			1,292,504			1,322,301
		1,291,250			1,315,001			1,326,455		16:	R. 14,696			1,292,638			1,322,461
	62:	1,292,557			1,315,055		13:	1,290,630			1,290,441			1,292,649			1,322,526
		1,307,924			1,315,062			1,291,346			1,291,951			1,292,935			1,324,252
	297:	1,323,187			1,315,343			1,291,948			1,292,519			1,293,015			1,324,320
152—	1:	1,290,453			1,315,471			1,293,528			1,293,322			1,293,283			1,324,617
		1,294,084			1,315,837			1,294,161			1,293,901			1,293,893			1,325,258
		1,300,732			1,316,186			1,294,427			1,295,579			1,294,529			1,325,326
		1,301,230			1,317,913			1,295,011			1,296,441			1,294,969			1,325,412
		1,311,163			1,319,110			1,295,014			1,298,915			1,295,792			1,325,714
		1,312,124			1,319,539			1,295,604			1,299,112			1,296,143			1,326,090
		1,313,424			1,319,726			1,297,278			1,299,225			1,296,418			1,326,418
		1,317,831			1,320,343			1,297,279			1,299,707			1,296,419			1,326,678
		1,319,865			1,321,162			1,305,196			1,300,766			1,297,338		22:	1,293,498
		1,321,466			1,322,070			1,309,308			1,305,400			1,298,050			1,294,108
		1,326,181			1,322,258			1,310,121			1,305,957			1,298,332			1,297,097
	2:	1,294,523			1,322,452			1,310,212			1,307,531			1,299,205			1,303,998
		1,294,716			1,322,608			1,310,438			1,308,057			1,299,253			1,307,872
		1,295,472			1,324,165			1,314,930			1,309,440			1,299,352			1,311,806
		1,297,155			1,325,520			1,316,594			1,310,315			1,299,378			1,312,482
		1,297,620			1,325,793			1,316,686			1,311,554			1,299,450			1,320,518
		1,303,534			1,326,787			1,317,976			1,311,677			1,299,451			1,321,556
		1,303,651			9: 1,292,300			1,318,119			1,312,344			1,299,472			1,322,685
		1,306,730			1,293,927			1,320,617			1,312,978			1,299,541			1,324,944
		1,308,434			1,299,333			1,321,403			1,314,946			1,299,903			1,325,233
		1,310,126			1,302,173			1,323,457			1,318,268			1,299,943			1,325,779
		1,318,597			1,305,819			1,323,600			1,320,283			1,300,052		23:	1,294,887
		1,320,667			1,308,413			1,324,282			1,321,688			1,300,223			1,296,539
		1,324,495			1,314,110			1,326,437			1,324,065			1,300,514			1,299,342
	4:	1,290,788			1,314,462		14:	1,290,474			1,324,695			1,301,033			1,321,992
		1,297,869			1,316,377			1,291,116			1,324,702			1,301,097			1,324,776
	5:	1,298,945			1,319,570			1,291,309			1,325,364			1,301,352		24:	1,290,566
		1,299,051			10: 1,300,050			1,291,380			1,325,856			1,301,695			1,295,961
		1,307,800			1,303,995			1,292,526		17:	1,290,781			1,302,156			1,299,005
		1,310,113			1,306,587			1,292,529			1,292,176			1,303,101			1,303,154
		1,313,007			1,306,724			1,292,698			1,294,777			1,303,139			1,310,156
		1,313,254			1,306,769			1,292,879			1,299,305			1,303,557			1,313,143
		1,313,749			1,312,506			1,293,247			1,300,538			1,303,589			1,318,077
		1,316,501			1,312,582			1,293,424			1,300,601			1,303,590		26:	1,290,128
		1,318,026			1,315,292			1,293,436			1,303,865			1,304,165			1,294,322
		1,318,575			1,323,079			1,294,510			1,307,036			1,304,488			1,296,349
		1,321,220			1,323,160			1,294,588			1,307,683			1,305,682			1,300,769
		1,321,879			11: 1,303,893			1,295,294			1,311,309			1,305,683			1,310,831
		1,322,281			1,311,533			1,295,657			1,311,720			1,306,515			1,313,792
	6:	1,292,564			1,312,074			1,295,657			1,315,136			1,306,814			1,320,416
		1,312,415			1,321,209			1,296,069			1,315,598			1,306,828		27:	1,290,884
		1,315,092			1,322,196			1,297,476			1,319,549			1,306,957			1,294,464
		1,317,585			11: 5: 1,311,898			1,298,001		18:	1,291,345			1,306,980			1,307,190
		1,321,719			1,314,435			1,298,149			1,292,405			1,307,267			1,313,868
	7:	1,299,463			1,315,173			1,298,001			1,293,158			1,307,268			1,322,507
		1,304,794			1,318,113			1,299,082			1,294,201			1,307,461			1,325,552
		1,307,164			1,318,402			1,301,078			1,294,573			1,307,473		28:	1,290,625
		1,326,444			1,325,019			1,301,343			1,295,494			1,308,614			1,292,111
	8:	1,290,113			12: 1,290,243			1,301,535			1,297,408			1,309,751			1,292,949
		1,291,156			1,290,582			1,302,364			1,298,213			1,310,047			1,293,145
		1,291,477			1,292,934			1,302,496			1,298,581			1,310,048			1,293,994
		1,291,627			1,294,458			1,302,737			1,298,765			1,310,364			1,295,082
		1,292,161			1,295,767			1,304,813			1,299,167			1,310,603			1,295,214
		1,292,729			1,295,767			1,305,377			1,300,731			1,311,126			1,295,593
		1,293,473			1,295,889			1,307,055			1,300,980			1,311,269			1,303,329
		1,293,558			1,296,516			1,307,192			1,301,207			1,312,535			1,305,761
		1,294,420			1,296,517			1,307,208			1,301,998			1,312,824			1,309,532
		1,295,266			1,297,725			1,307,319			1,302,970			1,313,824			1,310,285
		1,295,401			1,297,824			1,307,319			1,304,177			1,313,981			1,313,707
		1,295,555			1,297,851			1,308,153			1,305,622			1,314,414			1,315,043
		1,295,556			1,300,534			1,308,705			1,306,334			1,314,415			1,315,091
		1,295,903			1,300,611			1,309,020			1,307,123			1,314,416			1,317,097
		1,296,665			1,301,938			1,309,326			1,309,249			1,314,932			1,317,729
		1,296,874			1,302,380			1,311,048			1,311,340			1,314,933			1,320,663
		1,296,925			1,302,441			1,311,750			1,311,883			1,314,934			1,321,406
		1,297,052			1,302,443			1,311,971			1,316,978			1,314,935			1,323,005
		1,297,550			1,302,792			1,312,436			1,318,095			1,314,936			1,325,833
		1,297,902			1,304,116			1,312,437			1,320,708			1,314,937		29:	1,294,228
		1,298,438			1,304,424			1,312,483			1,322,321			1,314,938			1,295,664
		1,298,731			1,305,260			1,312,924			1,322,550			1,315,009			1,297,355
		1,299,009			1,305,261			1,313,410			1,322,739			1,315,178			1,297,881
		1,299,898			1,305,262			1,313,465			1,323,259			1,315,184			1,298,660
		1,300,063			1,305,263			1,314,145		19:	1,319,697			1,315,199			1,299,722
		1,300,933			1,305,264			1,314,782			1,294,313			1,316,055			1,301,604
		1,301,467			1,305,265			1,315,099			1,304,878			1,316,606			1,302,265
		1,302,091			1,305,266			1,315,131			1,308,860			1,316,758			1,302,306
		1,302,741			1,305,552			1,315,278			1,310,303						

## Classification of patents—Continued.

152—	32:	1,294,386	153—	25:	1,318,412	154—	2:	1,315,362	154—	40:	1,294,252	155—	9:	1,298,437	155—	26:	1,301,957
		1,294,933		27:	1,298,656			1,315,896			1,294,785			1,301,248			1,305,463
		1,302,447			1,304,938			1,316,295			1,299,804			1,310,552			1,306,211
		1,318,496			1,304,939			1,316,456			1,301,955			1,314,089			1,309,012
		1,324,726		28:	1,292,158			1,317,146			1,315,488			1,315,264			1,309,943
33:		1,300,946		29:	1,321,885			1,317,426			1,320,549			1,321,903			1,310,250
		1,302,215		32:	1,290,047			1,319,795			1,325,075			1,325,978			1,313,494
		1,304,057			1,300,704			1,320,509		41:	1,302,288		10:	1,298,235			1,316,375
		1,308,515			1,308,782			1,320,637			1,304,760		11:	1,322,788			1,317,369
		1,310,300			1,308,810			1,320,638			1,309,453		12:	1,291,898			1,318,403
		1,317,010			1,308,501			1,321,223		42:	1,310,215			1,297,115			1,323,946
		1,317,185			1,308,945			1,322,631			1,317,665			1,298,053		27:	1,291,975
		1,324,368			1,309,849			1,323,021			1,319,209			1,300,914			1,293,530
		1,324,369			1,311,353			1,323,039			1,324,686			1,301,713			1,302,212
34:		1,302,418			1,313,560			1,324,471		43:	1,297,305			1,302,343			1,312,774
35:		1,290,519			1,317,627			1,325,363		44:	1,295,654			1,310,958			1,318,930
		1,292,357			1,317,973			1,325,798			1,317,957			1,316,163			1,320,014
		1,296,502			1,319,862			1,325,883			1,318,463			1,325,270		28:	1,301,835
		1,308,846			1,322,926			1,325,955			1,322,330			1,326,716			1,301,836
		1,313,800		33:	1,313,380			1,326,630			1,325,923		13:	1,290,532			1,326,275
		1,315,626		38:	1,314,384		3:	1,305,141		45.5:	1,299,889			1,290,557		30:	1,301,877
		1,316,944			1,319,434		5:	1,305,666			1,313,320			1,291,413			1,324,013
		1,322,636			1,322,267			1,316,052			1,314,143			1,299,810		32:	1,293,509
36:		1,292,299		39:	1,297,804		6:	1,309,424			1,321,930			1,319,551			1,295,073
		1,292,545			1,299,585		9:	1,292,052		45.9:	1,292,067			1,325,548			1,300,678
		1,292,826			1,309,420			1,296,991			1,303,753			1,326,417			1,306,306
		1,294,796		40:	1,309,238			1,297,186			1,322,278		16:	1,294,786			1,321,982
		1,304,011			1,309,250			1,302,660			1,325,241			1,297,683			1,325,164
		1,307,212			1,320,788			1,307,173		46:	1,300,535			1,300,883			1,325,423
		1,307,609		42:	1,320,266			1,309,058			1,301,902			1,310,581		33:	1,290,169
		1,311,024		44:	1,319,608			1,312,491			1,309,758			1,312,720			1,294,273
		1,314,739		45:	1,305,990			1,312,505			1,312,758		18:	1,292,061			1,300,136
		1,321,545			1,316,243			1,313,603			1,314,519			1,295,382			1,309,868
		1,323,794			1,319,798			1,317,526			1,315,179			1,297,718		34:	1,293,246
37:		1,292,667		46:	1,293,397			1,317,887			1,315,409			1,301,639			1,296,415
		1,295,379			1,306,518			1,318,643			1,318,743			1,303,994			1,298,519
		1,298,062			1,319,982			1,320,728			1,323,022			1,308,318			1,300,934
		1,302,477			1,324,940			1,321,139			1,325,448			1,317,580			1,303,981
		1,304,742		48:	1,291,658			1,321,790		48:	1,302,473		20:	1,304,755			1,305,856
		1,313,501			1,300,679			1,323,164			1,314,877			1,304,579			1,306,486
		1,314,727			1,304,326			1,323,165		49:	1,292,705		21:	1,320,008			1,306,738
		1,315,300			1,308,591			1,324,016			1,304,083		22:	1,290,517			1,319,236
		1,315,491			1,315,937			1,326,465		50:	1,309,971			1,297,177			1,326,069
		1,318,270			1,316,211		10:	1,294,681		51:	1,296,114			1,301,203			1,326,363
		1,318,393		49:	1,290,578			1,298,124			1,296,324			1,303,076		35:	1,300,680
		1,321,218		51:	R. 14,779			1,298,767			1,311,941			1,304,368			1,303,012
		1,326,458			1,293,760			1,298,768			1,317,182			1,308,500			1,305,221
38:		1,293,412			1,294,071			1,298,769			1,320,502			1,308,729			1,314,495
		1,295,316			1,295,542			1,299,497		52:	1,293,504			1,309,725			1,317,106
		1,295,378			1,302,228			1,300,341			1,299,650			1,310,108			1,319,582
		1,306,176			1,312,268			1,302,122			1,302,853			1,310,566			1,320,714
		1,319,657			1,323,971			1,309,894			1,304,811			1,310,671			1,325,358
		1,324,131		53:	1,323,279			1,310,236			1,311,857			1,312,251			1,325,359
39:		1,309,709		54:	1,296,199			1,310,701			1,317,701			1,315,086		38:	1,318,437
41:		1,291,744			1,303,849			1,314,733			1,318,876			1,315,810		40:	1,297,436
		1,324,114			1,317,264			1,315,981			1,320,149			1,316,089		41:	1,297,364
42:		1,297,876		59:	1,319,503			1,316,356			1,320,692			1,318,438			1,316,621
43:		1,298,493		64:	1,295,835			1,317,657			1,322,855			1,318,439			1,318,288
		1,323,060			1,303,674			1,319,333			1,323,979			1,319,258		43:	1,291,773
45:		1,324,596			1,319,974			1,320,295		54.5:	1,296,782			1,319,400			1,298,803
47:		1,316,499		73:	1,322,116			1,321,493			1,311,596		23:	1,293,025			1,300,853
		1,320,173		79:	1,297,141			1,321,494			1,301,605			1,295,753			1,304,753
48:		1,314,643			1,301,940		11:	1,296,762		55:	1,320,016			1,298,016			1,314,408
		1,323,235			1,323,052			1,299,410		67:	1,314,909		24:	1,291,150			1,314,430
49:		1,301,570			1,326,195			1,321,404		155—	2:	1,291,732		1,301,429			1,321,458
50:		1,296,873		80:	1,306,982		12:	1,316,773			1,298,823			1,305,042			1,322,292
		1,297,287		80.5:	1,304,954			1,319,864			1,301,019		25:	1,292,290			1,323,370
		1,297,791			1,313,284		14:	1,290,576			1,301,020			1,295,287		44:	1,297,018
		1,298,592		81:	1,297,457			1,294,063			1,302,226			1,295,296			1,304,951
		1,299,332			1,312,333			1,294,330			1,312,915			1,296,068			1,315,431
		1,304,164		82:	1,305,669			1,297,295		3:	1,295,043			1,297,947			1,315,549
		1,309,839			1,305,808			1,298,661			1,295,411			1,298,747		45:	1,294,300
		1,314,337			1,322,921			1,297,036			1,297,036			1,299,871			1,297,800
		1,318,475			1,323,035			1,308,379			1,297,714			1,299,890			1,300,292
		1,322,117			1,323,036			1,309,687			1,301,218			1,301,021			1,302,321
		1,326,144		154—	1:	1,292,890		1,310,436			1,302,859			1,301,778			1,302,743
51:		1,297,790			1,297,482			1,311,392			1,306,452			1,302,119			1,307,058
		1,305,558			1,297,642			1,311,738			1,311,146			1,302,536			1,313,330
		1,306,454			1,299,237			1,313,286			1,324,186			1,303,043			1,315,097
52:		1,298,269			1,300,370			1,314,931			1,326,165			1,303,535		66:	1,300,622
		1,311,999			1,304,995			1,315,364		5:	1,293,592			1,303,852		10:	1,303,081
114:		1,312,729			1,308,723			1,315,710			1,293,778			1,303,962			1,303,678
116:		1,324,658			1,316,119			1,316,104		6:	1,294,378			1,304,072			1,326,249
153—	1:	1,296,749			1,316,241			1,317,664			1,297,059			1,305,771		13:	1,304,678
		1,310,118			1,316,845			1,319,003			1,299,366			1,306,619		14:	1,295,476
		1,311,556			1,318,149			1,319,575			1,299,881			1,307,666			1,297,786
	2:	1															



## Classification of patents—Continued.

156—	19: 1,298,286 1,299,556 1,301,369 1,302,633 1,307,222 1,308,217 1,309,060 1,310,469 1,311,855 1,314,358 1,315,704 1,315,705 1,315,706 1,324,591	156—	39: 1,293,213 1,294,094 1,297,365 1,303,455 1,309,488 1,310,305 1,311,248 1,314,221 1,317,040 1,317,361 1,317,579 1,323,061 1,323,159 1,323,499	158—	13: 1,312,080 1,323,598 23.1: 1,304,042 1,316,201 1,317,998 27: 1,303,716 27.4: 1,290,422 1,290,536 1,291,864 1,292,367 1,297,053 1,298,880 1,299,530 1,299,535 1,300,106 1,300,256 1,301,044 1,302,157 1,302,438 1,303,178 1,304,198 1,310,099 1,310,100 1,310,101 1,310,102 1,310,103 1,310,104 1,310,105 1,310,106 1,310,107 1,311,815 1,313,605 1,318,386 1,318,616 1,319,097 1,324,866 27.5: 1,296,869 28: 1,293,198 1,293,504 1,295,856 1,297,797 1,311,443 1,313,526 1,316,021 1,322,269 1,326,146 29: 1,313,525 30: 1,323,998 31: 1,302,505 1,323,916 1,324,000 32: 1,315,302 33: 1,294,276 1,295,343 1,315,420 1,322,952 36: R. 14,602 R. 14,701 1,290,132 1,290,182 1,292,183 1,320,829 1,292,549 1,293,683 1,293,756 1,293,789 1,293,790 1,294,521 1,295,036 1,296,229 1,296,363 1,296,364 1,296,365 1,296,524 1,296,037 1,297,288 1,298,903 1,299,069 1,299,128 1,299,443 1,299,653 1,299,941 1,301,369 1,301,415 1,302,610 1,302,725 1,303,610 1,304,313 1,304,550 1,304,822 1,305,037 1,305,416 1,306,377 1,306,762 1,306,999 1,308,005 1,308,848 1,308,917 1,309,718 1,310,254 1,310,393 1,310,915	158—	36: 1,311,167 1,311,695 1,312,814 1,313,925 1,314,056 1,314,161 1,314,971 1,315,231 1,315,624 1,316,592 1,316,680 1,317,919 1,320,239 1,320,239 1,320,240 1,319,913 1,321,073 1,321,298 1,321,756 1,323,415 1,323,493 1,323,493 1,324,191 1,325,180 1,325,571 1,325,701 1,325,913 1,326,642 38: 1,307,396 1,314,313 41: 1,305,648 1,307,878 42: 1,307,064 46.5: 1,303,642 1,323,649 1,324,597 1,325,603 1,325,649 53: 1,299,263 1,300,246 1,303,866 1,305,679 1,308,452 1,310,066 1,320,325 1,320,599 1,320,930 1,323,140 55: 1,297,137 56: 1,290,683 1,303,597 1,304,927 1,322,376 1,325,062 57: 1,321,976 58: 1,300,304 1,320,928 61: 1,293,686 1,299,206 1,311,822 1,318,136 1,320,929 1,320,973 1,326,469 63: 1,290,074 1,291,792 1,292,258 1,295,381 1,296,935 1,296,708 1,301,304 1,318,549 1,319,870 1,322,771 1,322,982 1,324,815 1,324,816 1,325,370 64: 1,294,039 1,300,487 1,307,625 1,316,777 1,319,020 65: 1,291,573 1,292,739 1,295,116 1,296,581 1,297,048 1,298,435 1,299,935 1,300,171 1,300,728 1,303,578 1,304,731 1,306,955 1,307,206 1,307,294 1,310,927 1,322,712 1,324,115 1,324,468 1,324,755 1,325,811	158—	66: 1,293,226 1,300,230 1,315,188 1,324,343 69: 1,290,757 1,304,225 1,304,848 1,312,073 1,317,448 71: 1,315,993 1,317,289 1,324,863 1,320,498 72: 1,297,588 73: 1,297,589 1,322,093 74: 1,291,012 1,293,682 1,302,360 1,304,293 1,311,575 75: 1,296,709 1,300,626 1,302,827 1,303,252 1,304,092 1,306,458 1,312,735 1,321,358 76: 1,290,334 1,293,761 1,300,643 1,302,826 1,302,950 1,318,160 77: 1,294,026 1,296,822 1,320,374 1,325,095 1,326,466 78: 1,292,371 1,299,843 1,321,816 79: 1,294,028 1,295,526 1,299,968 1,307,213 1,321,321 80: 1,295,775 86: 1,290,856 1,299,108 1,312,108 87: 1,293,194 88: 1,318,959 90: 1,315,361 1,317,153 91: 1,293,241 1,299,491 1,303,662 1,304,820 1,308,936 1,310,283 1,317,869 1,318,883 1,321,599 1,321,975 1,323,825 1,325,620 92: 1,297,138 93: 1,307,583 94: 1,298,378 1,324,507 99: 1,290,904 1,298,817 1,302,819 1,303,970 1,304,755 1,308,304 1,310,923 1,313,196 1,316,682 1,317,403 1,319,226 1,320,108 1,325,456 1,325,782 101: 1,311,731 104: 1,314,686 1,320,632 1,303,669 106: 1,291,056 109: 1,291,725 1,294,781 1,295,085 1,295,086 1,297,374 1,306,446 1,306,501 1,312,147 1,314,914 1,314,919 1,317,638 1,321,996	158—	110: 1,303,615 112: 1,294,504 1,294,999 1,309,922 113: 1,320,075 115: 1,302,914 1,321,280 1,322,349 1,323,041 116: 1,323,773 117: 1,307,226 1,320,004 1,290,345 1,291,589 1,307,214 1,308,739 1,325,116 118: 1,298,805 1,305,632 1,308,472 1,313,360 1,313,694 1,316,668 1,324,296 119: 1,290,878 1,295,247 1,297,958 1,299,900 1,314,003 1,316,504 1,320,107 1,322,131 1,325,457 120: 1,304,045 1,304,299 274: 1,316,681 91: 1,302,025 160— 1: 1,314,309 1,315,772 3: 1,290,703 1,299,603 161— 1: 1,310,702 2: 1,317,109 3: 1,321,112 4: 1,304,010 5: 1,296,438 8: 1,296,249 1,303,395 1,317,172 9: 1,300,982 10: 1,315,316 1,316,117 14: 1,314,354 1,317,069 1,321,995 15: 1,309,204 1,319,451 1,319,452 1,319,453 1,319,454 16: 1,297,180 1,324,871 17: 1,315,728 1,322,362 18: 1,323,477 22: 1,293,102 25: 1,299,638 1,301,613 1,310,965 1,316,984 1,320,247 26: 1,300,825 1,304,585 1,311,447 1,312,885 1,323,230 27: 1,292,189 1,294,540 1,297,529 1,299,328 1,299,340 1,299,812 1,300,498 1,301,008 1,304,306 1,309,427 1,313,172 1,313,440 1,313,757 1,317,893 1,306,444 1,311,631 1,316,507 1,318,089 1,321,948 1,322,768 1,326,486 5: 1,291,172
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## Classification of patents—Continued.

162—	6: 1,296,040	164—	65: 1,310,153	164—	116: 1,315,392	167—	9: 1,312,047	169—	24: 1,315,279	171—	34: 1,314,471
	8: 1,309,516		1,326,644		117: 1,296,895		1,314,444		1,319,518		1,323,518
163—	6: 1,306,049		66: 1,290,555		1,297,341		1,318,254		25: 1,305,912		71: 1,298,868
	1,322,508		1,302,398		1,303,603		1,314,076		1,315,522		73: 1,315,205
164—	2: 1,316,215		1,306,009		1,318,177		1,317,210		26: 1,292,746		95: R. 14,733
	6.5: 1,292,570		1,312,874		1,325,191		1,322,525		1,295,220		1,292,496
	1,292,685		68: R. 14,642		1,299,210		1,303,373		1,297,559		1,301,434
	1,314,504		1,296,554		1,312,492		1,312,685		1,298,109		1,303,457
	1,314,505		1,299,657		1,315,339		1,317,070		1,300,046		1,305,514
	1,314,506		1,301,964		1,323,852		1,298,264		1,304,332		1,306,624
	1,314,507		1,303,371		1,304,034		1,294,896		1,305,010		1,307,645
	1,314,786		1,305,639		1,305,898		1,302,675		1,308,075		1,312,753
	1,318,951		1,306,398		1,324,621		24: 1,300,944		1,310,314		1,314,610
	1,318,952		1,310,922		1,320,868		26: 1,304,873		1,311,873		1,315,781
	1,318,953		1,313,224		1,325,309		28: 1,316,571		1,317,629		1,324,054
	6.6: 1,321,089		1,313,325		1,308,272		1,320,000		27: 1,320,027		97: R. 14,585
	1,321,090		1,318,892		1,321,452		1,307,136		31: 1,320,587		R. 14,752
	13: 1,310,068		1,321,161		1,310,238		1,318,841		32: R. 14,753		1,291,066
	16: 1,300,792		69: 1,322,843		1,291,915		32: 1,311,680		33: 1,320,992		1,291,111
	17: 1,296,934		70: 1,323,425		1,301,285		35: 1,315,080		42: 1,323,422		1,292,578
	1,321,169		71: 1,299,688		1,301,288		41: 1,297,070		4: 1,301,881		1,293,945
	18: 1,304,151		73: 1,302,340		1,299,741		1,301,345		7: 1,302,889		1,294,899
	19: 1,295,239		1,306,261		1,302,815		1,310,966		11: 1,321,415		1,295,854
	1,295,931		74: 1,309,317		1,305,914		1,320,878		14: 1,299,151		1,295,887
	1,298,806		1,321,918		1,311,169		1,304,761		15: 1,298,247		1,295,933
	1,308,479		75: R. 14,654		1,323,205		1,325,507		23: 1,314,232		1,296,976
	1,313,956		1,290,272		1,305,915		1,325,769		26: 1,315,595		1,297,768
	22: 1,291,726		1,292,625		1,299,536		1,290,602		27: 1,319,174		1,297,879
	1,303,680		1,299,536		1,305,480		1,290,762		28: 1,306,311		1,300,242
	23: 1,297,899		1,307,561		1,310,853		1,292,664		29: 1,319,766		1,301,206
	1,317,716		1,310,853		1,325,908		1,298,152		30: 1,294,877		1,303,281
	25: 1,299,046		1,297,023		1,314,382		1,302,234		34: 1,292,225		1,303,282
	28: 1,290,301		1,301,332		76: 1,294,713		1,306,490		38: 1,326,335		1,306,411
	1,297,023		1,306,499		78: 1,310,736		1,312,515		39: 1,297,084		1,313,583
	1,301,332		1,317,384		80: 1,308,218		1,313,787		47: 1,297,066		1,313,957
	1,306,499		29: 1,307,041		1,315,128		1,314,169		85: 1,315,594		1,317,639
	1,317,384		1,309,157		1,319,484		1,315,079		86: 1,317,538		R. 14,720
	1,307,041		1,309,970		81: 1,317,758		1,309,721		88: 1,325,379		1,322,917
	1,320,602		1,321,896		82: 1,301,754		1,293,777		89: 1,292,389		1,326,301
	1,322,876		1,308,178		1,301,875		1,298,083		90: 1,320,650		1,292,730
	32: 1,308,178		1,308,650		83: 1,307,151		1,298,131		91: 1,300,194		1,298,443
	34: 1,318,492		85: 1,299,969		86: 1,313,345		1,298,533		103: 1,316,440		1,303,337
	36: 1,306,992		1,307,021		1,323,189		1,296,993		104: 1,312,454		1,304,132
	1,307,290		87: 1,301,931		1,317,462		1,298,157		105: 1,308,649		1,306,525
	1,316,751		1,297,108		1,325,293		1,302,673		107: 1,290,391		1,309,814
	38: 1,290,097		1,299,335		1,291,442		1,302,678		109: 1,315,587		1,309,931
	1,297,108		40: 1,318,249		88: 1,291,524		1,305,457		110: 1,296,082		1,313,117
	1,299,335		41: 1,292,181		89: 1,294,882		1,306,617		116: 1,313,621		1,321,342
	1,313,820		42: 1,313,862		1,297,637		1,309,624		118: 1,293,262		1,323,770
	44: 1,313,820		1,314,286		1,299,309		1,312,559		1,315,692		1,325,324
	1,318,320		43: 1,302,546		1,299,598		1,319,101		121: 1,294,109		1,226,355
	1,302,546		44: 1,302,587		1,302,082		1,299,721		128: 1,293,110		1,294,109
	1,322,099		45: 1,298,431		1,302,905		1,314,186		130: 1,304,284		1,298,695
	47: 1,302,532		1,311,412		1,303,884		1,319,965		131: 1,294,776		1,300,589
	1,311,412		48: 1,297,767		1,305,497		1,321,820		132: 1,313,457		1,301,334
	1,313,244		49: 1,296,803		1,307,613		1,322,135		133: 1,296,242		1,323,288
	1,314,017		1,298,930		1,309,117		1,299,272		141: 1,320,031		1,326,227
	1,297,767		1,312,182		1,309,619		1,294,776		142: 1,302,951		1,290,344
	1,312,182		1,316,064		1,309,859		1,296,937		144: 1,296,792		1,291,459
	1,321,039		1,321,207		99: 1,313,809		1,307,614		148: 1,294,624		1,292,551
	50: 1,297,759		1,312,182		101: 1,305,766		1,293,850		151: 1,293,097		1,295,613
	1,319,662		1,316,064		104: 1,298,088		1,297,310		153: 1,326,770		1,298,705
	53: 1,308,852		1,321,039		1,312,213		1,302,829		156: 1,307,834		1,300,508
	55: 1,322,571		1,321,207		1,317,373		1,314,387		158: 1,320,214		1,305,604
	57: 1,298,783		50: 1,297,759		1,309,907		1,314,468		159: 1,301,108		1,306,625
	1,309,848		1,319,662		1,312,182		1,316,066		165: 1,290,573		1,311,466
	59: R. 14,616		1,308,852		1,316,064		1,316,616		168: 1,292,830		1,315,936
	1,302,211		55: 1,322,571		1,321,039		1,317,172		169: 1,319,634		1,318,734
	1,313,277		57: 1,298,783		1,321,207		1,324,572		172: 1,300,552		1,320,056
	1,322,110		58: 1,309,848		1,311,412		1,297,024		173: 1,307,106		1,320,126
	60: 1,313,960		1,302,211		1,313,244		1,296,505		161: 1,313,598		1,320,795
	1,319,366		1,313,277		1,314,017		1,299,235		163: 1,293,884		209: 1,290,190
	1,319,496		1,322,110		1,297,767		1,299,610		166: 1,290,573		1,298,465
	1,325,173		61: 1,291,931		1,298,930		1,308,546		168: 1,292,830		1,298,534
	1,325,578		1,293,883		1,312,182		1,317,507		169: 1,319,634		1,303,068
	61: 1,291,931		1,297,203		1,316,064		1,318,254		172: 1,300,552		1,307,338
	1,293,883		1,299,002		1,317,373		1,319,157		173: 1,307,106		1,317,877
	1,301,651		1,303,221		1,318,254		1,320,008		165: 1,290,573		1,324,989
	1,306,642		1,310,923		1,319,496		1,324,175		168: 1,292,830		1,318,738
	1,310,923		1,314,029		1,319,496		1,324,848		169: 1,319,634		1,326,447
	1,315,340		1,317,804		1,325,173		1,299,065		172: 1,300,552		1,290,908
	1,319,219		63: 1,313,481		1,325,578		1,299,679		173: 1,307,106		1,298,433
	65: 1,298,005		1,302,414		1,326,644		1,300,698		161: 1,313,598		
					1,326,644		1,302,144		163: 1,293,884		
					1,326,644		1,310,606		166: 1,290,573		
					1,326,644		1,311,388		168: 1,292,830		
					1,326,644		1,320,389		169: 1,319,634		
					1,326,644		1,318,699		172: 1,300,552		
					1,326,644		1,299,548		173: 1,307,106		
					1,326,644		1,303,058		165: 1,290,573		
					1,326,644		1,303,130		168: 1,292,830		
					1,326,644		1,303,765		169: 1,319,634		
					1,326,644		1,311,059		172: 1,300,552		
					1,326,644		1,313,292		173: 1,307,106		
					1,326,644				161: 1,313,598		
					1,326,644				163: 1,293,884		
					1,326,644				166: 1,290,573		
					1,326,644				168: 1,292,830		
					1,326,644				169: 1,319,634		
					1,326,644				172: 1,300,552		
					1,326,644				173: 1,307,106		
					1,326,644				165: 1,290,573		
					1,326,644				168: 1,292,830		
					1,326,644				169: 1,319,634		
					1,326,644				172: 1,300,552		
					1,326,644				173: 1,307,106		
					1,326,644				161: 1,313,598		
					1,326,644				163: 1,293,884		
					1,326,						



## Classification of patents—Continued.

171— 225: 1,313,050	171— 313: 1,323,438	172— 179: 1,298,943	172— 238: 1,320,050	172— 289: 1,319,191	173— 328: 1,304,075
1,322,471	1,325,507	1,300,293	1,323,271	291: 1,291,233	1,308,172
228: 1,293,764	314: 1,306,147	1,300,300	239: 1,290,594	293: 1,292,315	1,315,203
1,309,001	1,306,315	1,300,484	1,292,218	1,292,768	1,318,728
229: 1,290,917	1,312,980	1,302,041	1,293,296	1,299,509	1,324,834
1,291,597	1,313,019	1,303,307	1,293,310	1,303,047	1,323,659
1,293,352	1,314,629	1,303,308	1,295,445	1,308,500	1,325,007
1,301,222	1,319,164	1,303,310	1,296,604	1,314,081	330: 1,294,444
1,301,231	1,319,215	1,304,178	1,296,693	329: 1,308,284	1,300,286
1,304,934	1,324,573	1,304,239	1,297,236	13: 1,292,659	1,308,977
1,305,031	1,325,508	1,305,044	1,298,375	28: 1,323,191	1,313,120
1,305,970	1,326,698	1,305,268	1,299,646	1,324,322	1,314,346
1,306,854	315: 1,290,940	1,306,484	1,299,924	31: 1,290,881	332: 1,290,066
1,306,878	1,292,099	1,306,537	1,301,966	33.4: 1,290,623	1,292,428
1,306,894	1,293,100	1,306,539	1,303,291	36.7: 1,297,146	1,300,789
1,307,845	1,293,314	1,306,548	1,303,319	104: 1,313,889	1,321,934
1,308,274	1,293,573	1,306,763	1,304,269	251: 1,319,374	334: 1,296,801
1,310,599	1,293,646	1,306,897	1,305,191	259: 1,293,862	1,309,406
1,312,165	1,303,811	1,307,810	1,306,410	1,303,524	335: 1,300,270
1,312,503	1,303,870	1,307,858	1,308,435	1,305,153	1,300,774
1,313,051	316: 1,324,348	1,308,069	1,309,443	1,315,135	338: 1,309,253
1,316,552	321: 1,326,303	1,308,070	1,311,781	1,316,904	1,323,114
1,316,983	1,326,349	1,308,089	1,318,795	1,321,880	340: 1,315,317
1,319,855	324: 1,323,888	1,308,106	1,322,889	1,320,594	342: 1,290,471
1,320,994	326: 1,323,970	1,309,366	1,323,929	263: 1,291,460	1,297,772
1,320,995	337: 1,310,414	1,309,733	1,325,005	1,296,061	1,297,179
1,326,328	172— 8: 1,290,945	1,310,040	1,326,732	1,297,614	343: 1,300,812
231: 1,303,484	1,290,946	1,310,458	240: 1,297,120	1,309,158	1,312,551
1,303,776	1,297,130	1,311,462	1,297,121	1,304,534	1,313,089
1,305,612	1,304,181	1,311,512	1,298,966	1,296,952	1,319,915
1,306,784	1,304,240	1,311,514	1,308,297	1,298,297	1,319,920
241: 1,301,640	1,304,288	1,311,567	1,307,836	1,298,644	1,320,135
242: 1,295,823	1,304,289	1,312,183	1,308,229	1,300,265	1,322,075
1,301,000	1,304,290	1,312,752	1,311,208	1,305,247	1,324,278
1,326,645	1,312,935	1,312,785	1,311,209	1,325,709	1,325,096
252: 1,291,232	1,313,078	1,312,786	1,315,886	266: 1,291,406	344: 1,297,432
1,292,621	1,313,079	1,314,501	1,316,093	268: 1,308,390	1,314,008
1,300,859	1,313,102	1,314,517	1,318,779	269: 1,291,207	346: 1,298,354
1,300,922	36: 1,292,110	1,314,738	1,321,136	1,291,545	1,302,415
1,301,077	1,292,592	1,315,774	1,321,203	1,294,658	1,303,464
1,301,844	1,298,664	1,315,826	245: 1,318,126	1,297,606	1,311,260
1,301,845	1,300,243	1,315,958	269: 1,310,661	1,298,609	1,315,204
1,308,064	1,300,373	1,315,959	274: 1,291,424	1,298,879	1,320,196
1,311,542	1,300,506	1,315,990	1,292,602	1,308,214	1,323,821
1,313,431	1,301,050	1,317,254	1,294,147	1,309,887	1,323,822
1,314,128	1,304,229	1,317,266	1,295,906	1,319,760	347: 1,301,152
1,314,132	1,306,018	1,317,284	1,296,136	1,324,177	349: 1,323,200
1,315,237	1,316,874	1,317,287	1,296,487	273: 1,290,153	351: 1,293,309
1,316,790	1,318,433	1,317,292	1,297,953	278: R. 14, 647	1,313,139
1,316,798	1,318,744	1,317,293	1,298,704	1,297,381	1,316,459
1,317,335	1,323,045	1,317,773	1,300,542	1,297,382	354: 1,293,989
1,318,741	1,325,232	1,318,753	1,300,742	1,297,383	1,294,794
1,318,756	1,325,937	1,318,754	1,301,632	1,301,299	1,301,457
1,319,225	1,326,326	1,318,755	1,301,710	1,321,373	1,306,672
1,320,781	1,326,502	1,320,047	1,301,739	1,301,436	1,316,975
1,326,340	120: 1,302,040	1,320,049	1,304,210	288: 1,320,564	1,319,963
264: 1,290,492	1,300,277	1,320,051	1,306,594	1,302,927	355: 1,302,787
1,290,499	1,306,532	1,320,052	1,308,068	311: 1,296,731	1,314,050
1,290,500	1,311,510	1,320,053	1,318,775	1,301,230	356: 1,303,609
1,291,110	1,316,004	1,320,054	1,318,846	1,304,263	1,310,138
1,299,736	123: 1,318,696	1,320,055	1,321,042	1,304,469	1,314,388
1,300,176	126: 1,291,819	1,320,057	1,296,620	1,309,799	1,324,279
1,306,356	1,296,634	1,320,078	1,300,387	313: 1,291,139	359: 1,305,308
268: 1,298,649	1,296,635	1,320,336	1,302,068	1,292,451	1,316,711
270: 1,305,227	1,308,305	1,321,019	1,304,957	1,296,587	1,322,989
808: 1,294,072	1,308,975	1,321,484	1,304,958	1,313,249	1,290,053
1,300,283	1,321,533	1,322,536	1,305,149	1,290,229	1,290,229
309: 1,315,419	1,321,635	1,322,562	1,311,511	1,302,158	1,291,443
312: 1,291,944	1,322,639	1,322,844	1,311,513	1,305,168	1,299,271
1,295,487	139: 1,323,622	1,322,845	1,311,539	1,311,483	1,313,328
1,300,074	152: 1,291,035	1,323,248	1,315,957	316: 1,302,796	1,316,561
1,303,342	1,291,561	1,323,272	1,321,523	318: 1,290,673	360: 1,298,623
1,303,360	1,298,032	1,323,273	1,321,590	1,291,217	1,304,491
1,318,620	1,298,839	1,323,279	1,309,159	1,291,713	1,317,548
1,321,434	1,306,545	1,323,289	1,315,965	1,295,464	361: 1,302,471
1,321,435	1,311,262	1,323,332	1,322,264	1,303,324	1,311,266
1,323,701	1,317,062	1,323,350	1,322,451	1,311,067	1,320,242
1,321,598	1,322,545	1,323,930	1,305,011	1,326,308	362: 1,292,669
1,293,428	1,322,774	1,324,814	280: 1,291,942	320: 1,302,013	1,301,456
1,293,547	R. 14, 610	1,324,814	1,300,388	321: 1,306,670	1,310,191
1,293,720	1,291,144	1,326,004	1,308,514	1,311,977	1,320,529
1,296,292	1,291,204	1,326,025	282: 1,314,259	1,315,633	1,325,875
1,296,293	1,291,507	1,326,315	284: 1,310,110	1,315,998	1,290,147
1,297,857	1,291,508	1,326,341	1,325,011	1,324,539	1,304,247
1,298,442	1,291,583	1,326,360	285: 1,324,204	1,326,307	1,304,342
1,298,974	1,292,599	237: 1,294,350	286: 1,291,263	322: 1,292,911	1,305,712
1,301,080	1,292,656	1,298,757	287: 1,313,537	324: 1,292,296	174— 89: 1,305,725
1,301,622	1,293,112	1,298,758	1,297,066	1,292,884	1,317,277
1,302,089	1,293,532	1,301,014	1,300,238	1,295,191	1,317,278
1,304,522	1,293,929	1,305,015	1,305,961	1,301,524	1,317,659
1,306,079	1,293,930	1,314,101	1,306,212	1,301,827	1,323,853
1,306,174	1,294,110	1,315,771	1,308,927	1,303,006	1,290,036
1,306,542	1,294,604	1,320,780	1,309,641	1,308,389	1,291,318
1,308,983	1,295,894	1,323,747	1,311,754	1,322,226	1,292,335
1,312,273	1,295,915	238: 1,296,287	1,292,381	1,323,375	1,293,689
1,313,272	1,295,930	1,298,774	1,299,248	1,324,994	1,307,654
1,314,166	1,296,015	1,300,308	1,301,068	1,326,632	1,308,805
1,316,603	1,296,698	1,300,543	1,302,400	328: 1,291,933	1,311,494
1,317,476	1,298,107	1,300,544	1,305,950	1,294,644	1,311,495
1,319,332	1,298,696	1,300,545	1,305,951	1,298,858	175— 21: 1,292,206
1,319,897	1,298,706	1,315,359	1,308,589	1,299,147	1,292,460
1,32,0747	1,298,712	1,318,752	1,309,640	1,301,546	1,293,120
1,323,111	1,298,818	1,320,048	1,316,009	1,303,096	1,293,912

## Classification of patents—Continued.

175— 21: 1,297,126	175— 270: 1,297,174	175— 281: 1,323,194	175— 284: 1,306,552	175— 306: 1,298,321	175— 363: 1,316,484
1,297,127	1,301,991	282: 1,290,899	1,307,189	1,298,330	1,318,722
1,303,398	1,314,483	1,291,722	1,312,550	308: 1,304,217	1,321,505
1,303,511	271: 1,294,411	1,292,081	1,316,900	1,310,503	1,321,886
1,303,626	273: 1,290,860	1,292,777	287: 1,290,082	1,320,879	1,322,187
1,308,558	1,294,621	1,292,807	1,295,966	309: 1,296,000	1,323,247
1,310,135	1,296,808	1,292,808	1,299,617	310: 1,292,714	364: 1,290,167
1,315,365	1,297,931	1,292,809	1,304,377	1,305,094	1,294,894
1,318,787	1,298,736	1,292,810	1,309,153	1,306,076	1,295,389
1,320,598	1,299,132	1,293,794	288: 1,301,212	1,308,275	1,301,581
1,326,366	1,299,387	1,293,842	290: 1,295,563	1,317,757	1,302,945
30: 1,291,218	1,300,249	1,294,045	1,295,588	1,325,016	1,305,495
1,291,386	1,301,465	1,294,342	1,297,348	1,326,297	1,306,923
1,295,714	1,301,848	1,294,599	1,304,376	315: 1,296,932	1,307,742
1,296,362	1,304,024	1,294,862	1,304,564	1,305,443	1,308,448
1,300,127	1,308,000	1,297,996	1,305,541	1,305,458	1,310,178
1,302,229	1,308,042	1,298,322	1,320,677	1,306,231	1,311,489
1,310,054	1,309,508	1,298,854	1,323,047	320: 1,323,330	1,311,490
1,311,063	1,311,661	1,299,159	292: 1,292,805	321: 1,290,691	1,320,040
1,311,503	1,312,792	1,299,602	1,292,806	1,293,098	1,320,106
1,311,916	1,314,470	1,299,891	1,294,176	1,322,254	365: 1,292,815
1,312,646	1,314,583	1,299,926	1,297,012	1,311,648	1,296,269
1,317,002	1,314,883	1,300,855	1,298,608	1,319,723	1,298,727
1,318,971	1,315,162	1,302,674	1,303,582	325: 1,300,022	1,307,517
1,319,720	1,315,590	1,303,161	1,303,376	336: 1,301,412	1,309,494
1,324,334	1,316,095	1,303,284	1,305,998	1,325,375	1,312,064
1,325,889	1,316,319	1,304,655	1,306,347	337: 1,324,536	1,316,546
32: 1,309,524	1,317,838	1,304,925	1,307,258	338: 1,315,612	1,324,742
91: 1,295,285	1,318,655	1,305,142	1,315,599	341: 1,305,937	1,324,743
1,312,229	1,318,886	1,305,158	1,321,390	1,326,359	366: 1,290,701
1,312,622	1,318,887	1,305,611	293: 1,290,362	1,292,003	1,293,970
115: 1,299,376	1,319,907	1,306,141	1,291,651	344: 1,292,003	1,296,276
1,307,644	1,321,949	1,306,343	1,292,140	345: 1,291,831	1,297,390
182: 1,325,554	1,325,698	1,306,345	1,312,380	1,293,387	1,301,493
183: 1,290,995	1,326,481	1,306,346	1,313,701	1,298,701	1,303,086
1,291,197	275: 1,309,233	1,306,360	1,314,098	346: 1,316,574	1,303,188
1,292,279	1,315,466	1,307,006	294: 1,292,584	1,322,319	1,303,876
1,295,853	1,316,429	1,307,094	1,292,585	347: 1,290,449	1,307,038
1,296,101	277: 1,294,432	1,307,748	1,292,605	1,305,649	1,307,286
1,296,126	1,298,654	1,307,845	1,293,767	349: 1,295,709	1,307,575
1,296,175	1,301,009	1,308,424	1,294,213	1,297,989	1,307,856
1,296,176	1,308,518	1,309,135	1,294,305	1,302,622	1,307,927
1,296,616	1,310,175	1,309,895	1,295,498	1,302,817	1,310,430
1,296,774	1,310,182	1,310,168	1,295,885	352: 1,299,155	1,311,763
1,296,813	1,313,288	1,310,354	1,296,558	354: 1,293,881	1,319,135
1,297,087	1,313,671	1,310,474	1,297,780	1,296,264	1,321,254
1,297,627	1,314,676	1,310,585	1,297,935	1,300,251	1,321,987
1,297,715	1,317,381	1,311,019	1,297,936	355: 1,290,443	1,290,868
1,297,929	1,319,538	1,311,263	1,298,665	1,292,708	1,301,135
1,298,795	1,320,424	1,311,974	1,298,711	1,303,417	1,312,546
1,298,896	1,322,079	1,312,136	1,301,471	1,306,072	1,316,672
1,299,252	278: 1,294,880	1,312,136	1,302,851	1,310,778	1,317,786
1,300,690	1,316,331	1,313,092	1,302,916	1,311,135	1,325,914
1,302,424	1,316,671	1,313,176	1,303,383	1,311,345	368: 1,315,646
1,303,146	1,318,653	1,313,641	1,304,236	1,317,270	375: 1,326,126
1,303,206	279: 1,304,203	1,314,103	1,304,237	1,293,692	176— 1: 1,290,930
1,306,069	281: 1,290,658	1,314,302	1,305,057	1,297,161	1,306,559
1,306,844	1,291,039	1,315,262	1,308,048	1,297,858	1,310,067
1,310,427	1,292,650	1,315,182	1,308,059	1,299,953	2: 1,298,569
1,310,443	1,293,205	1,315,308	1,308,249	1,304,184	1,318,832
1,312,016	1,293,587	1,316,308	1,308,256	1,310,042	14: 1,290,749
1,312,368	1,293,691	1,317,178	1,308,257	1,310,063	16: 1,292,482
1,312,992	1,293,698	1,317,203	1,308,365	1,310,299	1,298,299
1,313,319	1,296,636	1,317,382	1,308,388	1,311,507	1,317,492
1,313,952	1,297,979	1,318,131	1,309,027	1,313,054	1,325,254
1,314,908	1,298,464	1,318,508	1,310,081	1,314,305	24: 1,298,179
1,315,531	1,298,746	1,319,642	1,310,216	1,315,815	1,319,853
1,315,816	1,299,457	1,320,042	1,310,821	1,315,827	32: 1,301,079
1,316,244	1,299,965	1,320,544	1,312,822	1,315,867	36: 1,306,259
1,316,393	1,300,062	1,320,595	1,312,454	1,317,280	39: 1,306,912
1,316,560	1,302,035	1,320,619	1,312,757	1,317,767	40: 1,305,295
1,317,924	1,302,284	1,320,704	1,312,796	1,326,005	1,313,857
1,319,036	1,304,008	1,320,992	1,313,072	1,290,604	1,309,711
1,319,651	1,305,013	1,321,244	1,314,332	1,290,628	41: 1,291,209
1,320,036	1,306,202	1,321,333	1,314,373	1,306,815	42: 1,320,087
1,321,347	1,306,340	1,321,487	1,314,581	1,307,093	1,321,433
1,322,157	1,306,544	1,321,645	1,314,895	1,312,497	50: 1,307,455
1,322,405	1,306,555	1,321,806	1,315,780	1,319,181	1,320,114
1,323,240	1,306,874	1,321,809	1,315,809	358: 1,301,636	51: 1,291,793
1,323,503	1,307,725	1,322,065	1,315,830	359: 1,296,963	1,312,374
1,323,824	1,309,108	1,322,922	1,315,996	1,307,867	1,318,701
1,326,036	1,309,642	1,323,242	1,317,283	360: 1,295,921	52: 1,297,387
214: 1,307,995	1,309,822	1,323,275	1,320,074	1,297,133	55: 1,294,020
1,319,719	1,310,269	1,323,799	1,320,083	1,299,585	59: 1,319,825
265: 1,301,012	1,310,353	1,324,034	1,320,125	1,303,162	64: 1,308,087
1,309,160	1,310,608	1,324,499	1,321,543	1,317,003	66: 1,302,488
267: 1,318,734	1,310,622	1,324,555	1,323,238	1,304,257	80: 1,293,052
268: 1,290,863	1,310,626	1,324,908	1,323,327	1,304,451	109: 1,304,169
1,296,314	1,311,459	1,324,909	1,324,226	1,306,570	119: 1,304,503
1,306,638	1,311,460	1,324,909	1,324,818	1,309,346	121: 1,302,895
1,310,111	1,312,522	283: 1,292,598	1,324,903	1,310,097	1,317,199
1,310,380	1,312,692	1,295,777	1,325,215	296: 1,296,056	122: 1,316,967
1,310,562	1,313,438	1,300,367	1,326,049	1,305,126	132: 1,299,017
1,311,027	1,315,777	1,302,736	298: R. 14, 631	1,305,374	134: 1,302,795
1,314,508	1,316,305	1,303,423	1,297,912	1,306,344	1,326,605
1,314,530	1,316,955	1,306,551	1,305,126	1,324,161	135: 1,311,133
1,315,426	1,317,076	1,309,840	1,305,374	1,324,358	7: 1,290,366
1,316,901	1,318,099	1,310,110	1,306,344	1,324,910	1,290,901
1,320,870	1,318,345	1,317,821	1,307,307	302: 1,300,126	1,291,207
1,323,798	1,319,880	1,322,097	1,323,300		
269: 1,292,651	1,322,265				
270: 1,291,512					
1,293,697					



## Classification of patents—Continued.

177—	7:	1,292,523	177—	339:	1,316,246	178—	66:	1,324,496	179—	18:	1,312,778	179—	41:	1,326,475	179—	175:	1,293,825
		1,294,296			1,316,486		69:	1,315,953			1,312,884		42:	1,301,363			1,295,816
		1,295,599			1,317,240		70:	1,303,036			1,314,454		43:	1,295,909			1,324,465
		1,297,919			1,317,268		71:	1,291,697			1,314,685			1,296,677		179:	1,300,721
		1,300,539			1,325,885			1,300,326			1,315,445			1,306,406			1,320,058
		1,301,425		340:	1,292,208			1,307,558			1,316,101			1,316,892		182:	1,302,887
		1,303,459		342:	1,291,473			1,310,595			1,317,074		44:	1,324,355			1,304,308
		1,303,901			1,324,344		72:	1,291,247			1,319,031			1,324,355			1,321,171
		1,304,968		346:	1,310,337		77:	1,299,994			1,321,313			1,321,265			
		1,309,750			1,310,766		79:	1,299,608			1,321,795		48:	1,314,804		185:	1,297,490
		1,310,813		347:	1,320,150		82:	1,304,025			1,322,025		49:	1,307,538			1,304,461
		1,312,373		349:	R. 14,682			1,324,104			1,322,247		50:	1,317,190		187:	1,294,197
		1,314,703		350:	1,326,864		88:	1,316,699			1,324,750			1,324,364			1,314,819
		1,317,123		351:	1,291,056		92:	1,309,960			1,326,680		51:	1,291,766		275:	1,295,175
		1,317,216			1,296,439		98:	1,296,142			1,296,679			1,296,023	180—	1:	1,290,266
		1,321,197			1,298,440			1,304,356			1,317,522			1,297,358			1,297,449
		1,321,336			1,300,800		99:	1,319,773			1,291,585		52:	1,294,722			1,299,644
		1,321,446			1,301,585		101:	1,302,401			1,291,580		58:	1,306,804			1,299,844
		1,322,229			1,303,989		103:	1,298,771			1,292,257			1,311,156			1,301,018
		1,323,696			1,306,693		115:	1,302,715			1,292,522			1,317,826			1,301,294
		1,325,161			1,312,602		330:	1,318,178			1,292,828			1,320,715			1,303,805
26:		1,307,897			1,313,690	179—	1:	1,293,060			1,293,415			1,324,739			1,315,754
35:		1,304,022			1,314,208			1,296,617			1,293,597		70:	1,293,390			1,317,814
311:		1,300,546			1,319,809			1,296,687			1,293,817			1,294,111			1,320,745
		1,305,315			1,322,154			1,298,217			1,294,498			1,307,981			1,322,947
		1,305,836			1,325,160			1,308,910			1,294,841		73:	1,297,100			1,323,835
		1,306,713			1,325,763			1,317,991			1,295,229			1,298,414			1,325,473
		1,307,519		352:	1,293,744			1,321,181			1,295,405			1,298,588		3:	1,305,644
		1,312,191			1,310,568			1,323,218			1,296,104			1,302,808		5:	1,292,427
		1,312,494			1,311,157		2:	1,321,900			1,297,251			1,303,001			1,293,757
		1,313,323			1,311,650			1,324,525			1,298,850			1,312,768			1,304,183
		1,313,766			1,312,809		3:	1,314,695			1,299,558			1,312,894			1,314,666
		1,316,167			1,321,998			1,314,827			1,299,606			1,320,716			1,314,667
		1,318,369		353:	1,294,555			1,316,540			1,301,584			1,324,796		6:	1,291,500
314:		1,290,644			1,309,285			1,324,130			1,301,647		76:	1,313,477			1,292,393
		1,291,283			1,309,369		4:	1,290,808			1,301,648		78:	R. 14,593			1,293,958
		1,293,510		355:	1,322,336			1,313,413			1,303,528			1,319,521			1,296,531
		1,295,410			1,326,304			1,314,828			1,303,937		79:	1,320,489			1,299,862
		1,295,950		360:	1,311,649		5:	1,295,502			1,303,960		81:	1,293,458			1,302,193
		1,297,672			1,324,449			1,296,270			1,304,335			1,295,454			1,308,937
		1,298,055		364:	1,294,691			1,306,074			1,304,641			1,303,351			1,305,629
		1,298,710			1,305,956			1,324,420			1,306,063			1,313,570			1,314,896
		1,300,150		369:	1,309,364		6:	1,310,900			1,306,824		82:	1,312,068			1,320,517
		1,305,352			1,290,700			1,323,710			1,306,826			1,320,141			1,326,548
		1,310,349			1,324,732		6.3:	1,293,620			1,306,827		85:	1,326,212		7:	1,303,764
		1,311,233		379:	1,311,881		8:	1,305,981			1,307,057		86:	1,326,719			1,307,402
		1,315,374		381:	1,306,054		9:	1,303,958			1,307,196		90:	1,293,545			1,322,903
		1,318,299	178—	2:	1,307,753			1,304,369			1,307,489			1,294,095			1,324,706
		1,320,857			1,320,686			1,312,702			1,308,554			1,317,152			1,325,088
316:		1,291,051			1,324,798			1,312,965			1,308,740			1,324,356		8:	1,296,981
		1,319,416		13:	1,290,957		10:	1,316,477			1,308,749		91:	1,321,870			1,298,703
326:		1,325,146		17:	1,291,124		11:	1,312,688			1,310,226		93:	1,302,809			1,298,953
327:		1,292,028			1,298,440		12:	1,316,704			1,310,730		99:	1,290,645			1,305,385
		1,302,296			1,320,558		13.6:	1,309,248			1,312,126		100.1:	1,290,621			1,305,401
		1,302,618			1,326,456		15:	1,313,483			1,312,808			1,290,711			1,306,644
		1,303,422		17.5:	1,317,506			1,314,711			1,314,453			1,291,702			1,317,465
		1,304,172		20:	1,312,596			1,325,192			1,314,555			1,303,183			1,320,741
		1,306,118			1,314,617		16:	1,291,894			1,314,778			1,305,525			1,326,805
		1,311,118			1,314,018			1,315,440			1,315,441			1,318,201		9:	1,292,045
		1,317,173			1,314,619			1,306,829			1,315,442		101:	1,290,114			1,292,047
		1,320,966			1,314,620			1,311,432			1,315,443			1,305,240			1,292,116
		1,323,882			1,322,372		17:	1,291,587			1,315,444			1,312,504			1,292,286
328:		1,297,268		22:	1,310,719			1,306,494			1,315,444			1,321,989			1,293,657
329:		1,297,829			1,312,572			1,306,716			1,318,941			1,321,990			1,295,093
		1,299,361			1,312,574			1,312,706			1,319,999		107:	1,311,430			1,296,309
		1,305,609			1,320,908			1,312,791			1,322,170			1,318,874			1,298,022
		1,309,286		23:	1,295,797			1,318,004			1,322,759		109:	1,324,222			1,298,127
		1,311,997			1,293,346			1,321,319			1,323,265		114:	1,318,535			1,298,366
		1,312,109			1,295,998			1,324,202			1,323,483		115:	1,325,878			1,298,367
		1,312,537			1,313,295		18:	R. 14,665			1,324,365		122:	1,291,911			1,298,444
		1,313,770			1,324,838			1,290,148		27.5:	1,290,616			1,296,683			1,299,855
		1,313,847		26:	1,305,225			1,290,822			1,291,978			1,310,011			1,299,937
		1,314,084		28:	1,305,536			1,290,837			1,293,494			1,324,357			1,301,040
		1,315,168			1,312,775			1,291,950			1,296,680			1,324,959			1,302,545
		1,316,516		30:	1,301,213			1,291,959			1,298,237		127:	1,297,905			1,303,717
		1,317,338		33:	1,290,079			1,291,990			1,298,365			1,315,337			1,304,347
		1,317,429			1,303,496			1,292,465			1,303,084		139:	1,313,751			1,305,505
		1,318,792			1,309,176			1,292,499			1,306,124		147:	1,306,445			1,305,506
		1,318,822			1,314,721			1,292,827			1,307,589			1,320,005			1,306,469
		1,326,510		34:	1,309,745			1,293,499			1,307,688			1,319,774			1,306,884
330:		1,307,869		37:	1,322,010			1,293,630			1,308,867		149:	1,317,933			1,307,904
		1,316,121		38:	1,291,863			1,294,285			1,309,231		157:	1,304,718			1,309,053
332:		1,309,569		43:	1,300,140			1,294,557			1,309,304		170:	1,308,664			1,309,684
336:		1,318,165			1,320,142			1,294,587			1,312,514			1,308,725			1,310,406
		1,322,895		44:	1,311,283			1,295,096			1,314,214			1,308,726			1,310,417
337:		1,311,662			1,314,311	</											

## Classification of patents—Continued.

180—	9: 1,320,165 1,320,562 1,324,663 1,324,951 1,324,974 1,325,220 1,325,858 9.4: 1,295,893 1,292,870 10: 1,292,178 1,302,638 1,307,481 1,312,982 1,313,095 1,314,391 11: 1,296,781 1,297,747 1,305,088 1,322,192 1,323,739 12: 1,292,398 13: 1,306,554 1,325,633 14: 1,292,471 1,296,022 1,296,655 1,298,262 1,302,686 1,305,228 1,305,481 1,305,651 1,307,383 1,308,315 1,310,604 1,321,561 1,321,937 1,321,955 1,322,335 1,322,661 1,326,369 16: 1,290,709 1,297,636 1,302,103 1,302,204 1,303,856 1,305,246 1,305,717 1,308,316 1,325,853 17: 1,292,607 1,292,972 1,294,748 1,294,858 1,295,242 1,296,163 1,296,997 1,298,986 1,300,118 1,301,659 1,302,769 1,304,346 1,304,416 1,306,579 1,306,652 1,307,944 1,308,634 1,309,085 1,309,972 1,313,392 1,317,656 1,318,019 1,318,557 1,322,306 1,323,502 18: 1,293,702 1,294,174 1,294,819 1,297,485 1,313,396 1,318,894 19: 1,290,475 1,292,022 1,316,359 1,322,028 1,324,694 20: 1,292,273 21: 1,292,606 1,295,673 1,302,607 1,307,097 1,307,555 1,308,790 1,311,726 1,318,232 22: 1,315,012 24: 1,296,877 25: 1,299,600 1,312,648 1,325,277 1,326,397 26: 1,293,971 1,310,542 1,310,972	180—	26: 1,318,729 27: 1,309,305 1,321,107 1,321,258 1,321,585 30: 1,305,171 1,320,282 31: 1,290,276 1,295,092 32: 1,308,985 33: 1,290,277 1,293,042 1,297,218 1,297,676 1,302,656 1,308,022 1,308,602 1,317,154 1,321,978 1,323,814 1,324,242 41: 1,293,999 1,301,976 1,305,448 1,307,918 1,319,995 1,320,541 1,324,108 42: 1,290,347 1,290,748 1,291,740 1,299,025 1,302,023 43: 1,291,262 1,296,216 1,298,412 1,303,285 1,304,029 1,305,061 1,305,105 1,302,806 1,309,266 1,313,937 1,316,918 44: 1,295,335 1,295,793 1,314,093 45: R. 14,768 1,301,583 1,306,227 1,308,314 1,323,126 48: 1,292,922 1,320,605 1,326,847 49: 1,293,815 1,294,198 1,294,791 1,301,342 1,317,841 1,324,309 50: 1,321,093 1,321,612 53: 1,291,123 1,291,932 1,296,018 1,297,948 1,301,811 1,305,066 1,305,866 1,314,083 1,315,106 1,315,437 1,316,529 1,316,530 1,317,084 1,318,490 1,319,806 1,322,986 1,325,418 1,325,663 1,326,557 54: 1,294,807 1,303,290 1,305,231 1,305,433 1,307,473 1,310,898 1,312,159 1,313,151 1,323,849 1,325,318 1,325,366 1,326,772 56: 1,314,528 62: 1,309,236 1,317,780 64: 1,290,458 1,300,151 1,303,391 1,310,956 1,312,383	180—	64: 1,312,993 1,313,429 1,314,673 1,320,009 1,320,224 1,320,535 1,326,760 65: 1,309,164 67: 1,322,725 68: 1,303,003 1,305,810 1,306,363 1,306,364 1,314,521 1,319,871 1,322,683 69: 1,282,492 1,282,501 1,285,085 1,288,170 1,288,523 1,322,635 70: 1,287,148 71: 1,307,976 72: 1,299,180 1,307,330 73: 1,293,796 1,311,591 74: 1,290,699 75: 1,291,816 1,318,132 1,323,795 1,295,858 1,299,394 1,300,597 1,305,932 1,317,312 1,318,146 1,321,088 80: 1,305,325 1,306,030 81: 1,309,261 1,323,890 82: 1,299,979 1,300,318 1,305,277 1,306,260 1,311,333 1,313,544 1,322,171 83: 1,293,485 1,326,093 85: 1,307,137 1,324,563 88: 1,291,619 1,302,151 89: 1,315,842 1,322,666 90: R. 14,758 1,296,182 1,297,030 1,297,258 1,300,377 1,305,287 1,310,690 1,325,140 181—	5: 1,294,232 1,301,034 1,301,035 1,325,354 20: 1,301,526 24: 1,305,237 1,321,266 25: 1,296,763 1,296,891 1,302,036 1,310,810 1,318,461 1,299,616 1,326,549 27: 1,295,083 1,295,910 1,295,911 1,303,208 1,303,686 1,303,951 1,304,005 1,306,196 1,308,566 1,311,478 1,313,250 1,314,980 1,316,187 1,319,739 31: 1,299,604 1,315,411 32: 1,291,663 1,292,858 1,297,206 1,298,290 182—	1: 1,301,830 2: 1,313,373 7: 1,291,628	182—	9: 1,318,084 10: 1,310,055 1,311,819 1,312,699 1,315,594 1,320,256 12: 1,304,612 1,308,582 1,311,287 1,317,797 1,318,545 1,323,324 1,323,718 13: 1,290,636 1,297,414 1,319,093 15: 1,303,573 183—	3: 1,292,562 1,300,605 1,306,003 7: 1,291,745 1,309,221 1,319,706 1,322,163 1,325,136 10: 1,319,572 14: 1,314,564 17: 1,307,321 22: 1,316,745 24: 1,319,573 1,319,574 27: 1,324,236 28: 1,302,716 29: 1,304,884 31: 1,304,733 36: 1,314,443 37: 1,321,999 1,324,635 38: 1,303,819 1,306,910 40: 1,302,886 46: 1,301,373 1,304,697 48: 1,290,423 51: 1,304,681 1,316,883 1,317,646 1,319,079 54: 1,316,924 58: 1,295,216 59: 1,303,008 61: 1,321,490 62: 1,290,961 1,312,761 1,322,943 63: 1,292,561 65: 1,317,457 1,322,361 70: 1,302,328 76: 1,316,091 1,322,804 77: 1,303,207 1,311,811 1,318,009 1,319,059 1,319,331 79: 1,311,973 84: 1,323,816 86: 1,311,358 1,316,988 94: 1,292,450 1,325,376 101: 1,303,393 106: 1,311,573 111: 1,316,330 1,316,630 114: 1,298,409 1,325,124 115: 1,304,027 1,307,353 1,323,014 116: 1,317,583 117: 1,290,244 1,320,168 119: 1,315,254 121: 1,320,167 122: 1,301,372 184—	1: 1,294,728 1,301,529 1,313,743 1,314,420 1,314,771 1,323,128 1,324,853 2: 1,314,438 3: 1,292,567 1,296,907 1,301,816 1,307,498 1,311,505 1,315,487 1,317,449 1,294,292	184—	5: 1,296,744 6: 1,291,043 1,291,374 1,291,839 1,293,342 1,293,382 1,293,611 1,298,049 1,299,757 1,301,004 1,301,258 1,303,622 1,305,355 1,305,735 1,305,958 1,307,204 1,308,225 1,311,196 1,314,562 1,316,547 1,316,679 1,318,086 1,319,993 1,321,935 1,323,268 1,325,273 1,326,142 1,326,403 7: 1,292,138 11: 1,302,535 1,304,498 1,315,616 1,315,919 1,326,833 13: 1,303,111 1,323,454 14: R. 14,667 1,307,733 18: 1,302,231 21: 1,321,041 22: 1,290,618 1,294,733 26: 1,292,312 27: 1,304,149 1,308,417 1,308,916 1,317,901 1,323,554 1,323,603 29: 1,307,988 31: 1,315,141 32: 1,322,174 34: 1,309,740 35: 1,295,211 1,300,798 36: 1,291,417 1,299,060 37: 1,317,217 1,318,932 1,320,548 38: 1,292,594 1,293,386 1,294,773 1,304,536 1,309,428 1,309,442 1,310,611 1,310,630 1,314,073 1,318,392 1,319,037 1,326,389 44: 1,310,531 45: 1,292,692 1,300,751 1,304,535 1,304,537 1,304,601 1,305,005 1,305,527 1,318,667 1,318,668 1,318,669 1,309,828 48: 1,292,572 1,300,009 1,300,099 1,300,699 1,302,798 1,325,248 49: 1,300,941 50: 1,294,490 1,302,285 51: 1,294,363 55: 1,312,330 1,318,646 1,319,754 1,324,955 56: 1,292,566 1,316,832 1,326,886 58: 1,312,650 65: 1,296,208	184—	65: 1,317,759 1,317,938 69: 1,290,999 1,291,000 1,294,598 1,309,685 70: 1,302,006 1,313,385 88: 1,296,943 1,296,944 1,320,414 89: 1,304,328 1,316,714 90: 1,304,556 91: 1,308,331 1,311,327 1,317,368 92: 1,320,477 94: 1,295,184 95: 1,318,417 1,325,117 1,325,319 1,307,889 1,320,725 103: 1,312,365 1,315,125 1,317,961 1,322,919 1,323,631 104: 1,290,638 1,294,022 1,307,016 1,318,706 1,325,563 105: 1,307,734 1,308,604 1,318,908 1,319,425 1,321,198 185—	2: 1,301,357 4: 1,311,203 15: 1,292,857 31: 1,293,811 32: 1,303,811 34: 1,297,228 37: 1,291,061 1,292,267 1,300,937 1,312,023 1,318,866 1,321,821 39: 1,302,342 1,307,400 1,307,941 1,312,624 40: 1,301,358 1,312,181 1,315,459 1,324,734 41: 1,290,480 1,290,620 1,305,720 1,311,190 1,315,577 1,316,168 1,321,199 1,322,099 1,325,643 44: 1,302,539 45: 1,298,716 46: 1,301,968 186—	1: 1,314,965 6: 1,321,338 14: 1,300,987 16: 1,290,210 1,300,331 1,300,332 1,308,391 35: 1,325,105 1: 1,303,978 1,311,084 3: 1,326,433 9: 1,297,619 10: 1,312,089 1,321,780 11: 1,298,852 1,306,431 17: 1,297,713 19: 1,301,656 20: 1,318,556 1,321,386 27: 1,315,502 28: 1,307,756 1,309,648 29: 1,291,530 1,304,870 1,305,594 1,315,600 31: 1,291,750 1,295,444 1,302,623
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## Classification of patents—Continued.

187—	31: 1,314,552 36: 1,323,911 40: 1,314,228 47: 1,293,668 1,293,737 1,302,557 1,319,598 49: 1,291,798 1,298,948 50: 1,304,798 51: 1,299,124 1,315,795 1,321,697 52: 1,299,220 1,305,931 1,311,113 1,320,201 56: 1,312,500 1,321,698 57: 1,326,440 59: 1,295,655 1,314,551 60: 1,318,591 62: 1,321,219 71: 1,300,647 1,301,924 72: 1,292,236 75: 1,297,992 78: 1,291,815 1,303,271 80: 1,302,601 81: 1,310,993 1,311,050 82: 1,302,059 84: 1,301,791 87: 1,316,498 1,324,451 91: 1,291,195 1,300,424 1,310,224 95: 1,302,797 97: 1,294,868 1,301,732 98: 1,301,569 1,303,685	188—	4: 1,297,422 1,297,511 1,297,514 1,299,144 1,299,269 1,303,349 1,308,619 1,313,030 1,316,207 1,318,243 5: 1,297,690 6: 1,296,735 1,302,738 1,321,150 7: 1,290,150 1,294,977 1,315,683 8: 1,300,529 9: 1,302,004 10: 1,305,597 1,305,598 11: 1,297,513 1,312,357 12: 1,306,526 1,312,453 14: 1,309,787 1,316,206 15: 1,302,984 1,302,985 1,302,986 1,303,263 1,309,788 1,314,972 1,314,973 1,314,974 1,322,783 22: 1,290,160 1,301,433 1,307,618 1,308,046 1,313,982 1,314,287 1,315,493 1,319,877 1,323,269 1,325,516 24: 1,294,354 1,294,439 1,298,228 1,299,314 1,305,468 1,307,165 1,312,680 1,315,146 1,323,312 1,323,315 1,325,533 1,325,534 27: 1,303,172 1,303,173 1,313,540 1,290,098 1,292,423 1,295,366 1,299,605 1,304,044 1,304,049 1,309,186 1,311,320 1,314,853 1,315,399 1,315,932 1,323,270 1,323,342 31: 1,317,732 35: 1,303,219 36: 1,300,094 1,320,971 39: 1,294,784 1,295,020 1,297,109 41: 1,300,471 1,297,915 47: 1,322,852 1,325,151 48: 1,297,083 1,299,010 1,302,681 1,305,859 1,311,072 1,319,536 49: 1,298,571 1,298,572 1,298,573 1,298,574 1,298,575 1,298,576 1,319,043 50: 1,291,470 1,294,976 51: 1,291,086 1,294,424 1,294,780	189—	51: 1,309,933 1,309,934 52: 1,308,363 53: 1,300,468 54: 1,300,317 1,300,467 1,300,476 1,300,478 57: 1,300,376 1,300,458 1,300,464 1,300,473 58: 1,306,635 1,307,484 59: 1,300,465 60: 1,307,422 70: 1,295,276 1,295,367 1,295,829 1,296,917 1,298,901 1,298,902 1,302,575 1,303,064 1,303,069 1,304,134 1,304,135 1,304,136 1,304,662 1,309,187 1,309,353 1,310,032 1,310,033 1,310,295 1,310,607 1,315,395 1,315,396 1,315,397 1,315,398 1,315,400 1,315,401 1,315,402 1,318,121 1,322,047 1,322,048 1,322,215 1,322,295 1,323,310 1,323,313 1,323,314 1,325,512 1,325,531 1,325,532 1,325,535 71: 1,322,377 72: 1,291,523 1,294,124 1,301,723 1,302,346 1,316,205 1,323,093 76: 1,297,575 82: 1,308,402 1,324,603 83: 1,294,981 420: 1,300,351 1,315,156 1,322,923 50: 1,319,173 1,320,568 58: 1,290,169 1,290,514 1,325,524 60: 1,302,093 62: 1,298,136 1,324,973 65: 1,303,752 66: 1,316,896 68: 1,321,442 69: 1,312,727 1,319,121 73: 1,319,239 75: 1,307,822 1,318,297 76: 1,303,113 1,305,746 1,319,091 77: 1,292,795 1,320,288 78: 1,299,448 1,299,508 1,301,896 1,307,972 1,307,973 1,308,083 1,311,398 1,312,925 82: 1,309,698 1,325,792 85: 1,315,260 86: 1,307,333 90: 1,308,939 1,308,940 1,311,335	189—	31.4: 1,316,096 33: 1,312,511 1,316,952 1,324,385 34: 1,292,263 1,298,927 1,300,740 1,302,293 1,302,652 1,304,013 1,308,680 1,309,666 1,311,229 1,311,186 35: 1,292,509 1,299,868 1,303,424 1,320,425 36: 1,296,028 1,296,574 1,299,048 1,299,049 1,301,981 1,304,561 1,308,428 1,309,682 1,313,318 1,320,550 1,326,182 37: 1,297,478 1,320,072 1,324,982 38: 1,311,820 42: 1,324,076 43: 1,304,056 1,304,533 46: R. 14,637 1,297,534 1,299,251 1,299,886 1,300,143 1,300,336 1,301,930 1,304,343 1,307,876 1,308,276 1,308,976 1,315,537 1,315,659 1,316,897 1,318,329 1,321,610 1,323,753 1,323,754 1,323,755 1,323,756 1,323,757 1,323,758 1,326,450 47: 1,308,006 48: 1,301,782 49: 1,299,384 1,310,612 1,315,145 1,315,156 50: 1,319,173 1,320,568 58: 1,290,169 1,290,514 1,325,524 60: 1,302,093 62: 1,298,136 1,324,973 65: 1,303,752 66: 1,316,896 68: 1,321,442 69: 1,312,727 1,319,121 73: 1,319,239 75: 1,307,822 1,318,297 76: 1,303,113 1,305,746 1,319,091 77: 1,292,795 1,320,288 78: 1,299,448 1,299,508 1,301,896 1,307,972 1,307,973 1,308,083 1,311,398 1,312,925 82: 1,309,698 1,325,792 85: 1,315,260 86: 1,307,333 90: 1,308,939 1,308,940 1,311,335	189—	90: 1,312,918 1,316,323 1,316,348 1,320,081 92: 1,321,824 1,314,556 3: 1,313,223 1,314,556 11: 1,292,468 1,293,685 1,312,044 1,324,250 1,325,843 12: 1,293,416 1,297,489 1,301,351 1,304,279 1,308,727 1,317,895 1,319,072 1,325,371 1,326,809 13: 1,292,490 1,292,493 1,303,641 1,310,974 1,311,766 1,313,769 1,314,035 1,319,761 1,322,274 1,322,901 14: 1,326,516 16: 1,290,486 1,311,586 28: 1,314,554 1,317,188 34: 1,299,475 36: 1,302,069 1,304,266 1,316,872 1,323,246 41: 1,300,921 43: 1,322,785 48: 1,316,335 49: 1,294,753 51: 1,291,201 52: 1,325,372 53: 1,296,421 1,301,157 1,318,276 54: 1,319,134 55: 1,317,922 1,317,923 57: 1,306,778 3: 1,298,462 29: 1,311,033 38: 1,318,476 39: 1,309,717 40: 1,306,566 1,314,724 41: 1,292,238 1,291,538 1,296,748 1,296,829 1,303,678 1,321,088 42: 1,313,656 1,322,945 1,325,899 43: 1,293,943 1,296,860 1,309,870 44: 1,324,678 50: 1,308,120 55: 1,323,258 57: 1,294,204 58: 1,322,371 63: 1,300,303 64: 1,317,932 70: 1,324,049 75: 1,312,697 1,326,063 79: 1,291,132 80: 1,306,298 1,312,076 1,314,130 82: 1,299,152 83: 1,295,095 183: 1,306,087 1: 1,290,199 1,292,666 1,294,496 1,296,327 1,297,105 1,298,785 1,299,502 1,300,398 1,300,819 1,304,824 1,307,830 1,310,199 1,306,465 1,307,463	192—	4: 1,293,053 1,300,965 1,316,960 5: 1,302,920 1,312,776 6: 1,307,695 1,321,626 7: 1,291,883 1,292,859 1,293,242 1,324,250 1,325,843 1,293,416 1,297,489 1,301,351 1,304,279 1,308,727 1,317,895 1,319,072 1,325,371 1,326,809 1,310,629 1,312,609 1,323,360 1,324,501 8: 1,292,691 1,311,299 1,317,290 1,317,811 1,324,129 9: 1,302,183 1,310,629 1,312,609 1,323,360 1,324,501 10: 1,293,995 1,294,800 1,305,029 1,306,302 1,320,246 11: 1,304,138 1,309,996 1,316,432 13: 1,293,552 1,309,472 1,309,761 R. 14,755 14: 1,290,713 1,298,975 1,303,503 18: 1,293,596 1,296,371 1,298,512 1,300,898 1,306,872 1,307,697 1,311,279 1,317,415 20: 1,290,031 1,294,985 1,300,500 1,323,797 22: 1,310,967 1,322,539 81: 1,322,172 1: 1,292,209 1,292,997 1,295,195 1,295,945 1,297,444 1,298,828 1,299,198 1,300,406 1,301,348 1,302,428 1,304,774 1,309,935 1,311,590 1,313,375 1,315,439 R. 14,763 2: 1,291,446 1,299,184 1,312,294 1,319,077 1,320,368 1,320,808 1,321,520 1,321,779 1,322,031 1,322,813 1,323,496 3: 1,296,793 1,300,672 1,301,642 1,311,298 1,312,061 1,312,594 1,313,352 1,315,921 1,320,249 4: 1,290,802 1,300,810 1,306,328 1,310,454 1,313,111 1,315,994 1,317,542
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193—	4: 1,321,123 1,321,784 1,325,704 5: 1,306,103 1,290,797 1,291,764 1,314,296 1,298,115 1,322,647 8: 1,290,200 1,292,039 1,292,227 1,293,050 1,293,132 1,293,261 1,294,016 1,294,591 1,296,047 1,296,486 1,296,547 1,297,322 1,297,569 1,297,723 1,301,142 1,302,631 1,305,880 1,306,509 1,309,550 1,318,211 1,319,724 1,321,811 1,323,674 1,325,167 1,325,857 1,326,785 1,326,896 10: R. 14, 622 1,296,497 1,298,265 1,298,426 1,298,878 1,300,784 1,301,167 1,301,168 1,301,427 1,304,407 1,304,763 1,308,369 1,308,700 1,308,464 1,313,436 1,314,677 1,315,839 1,319,119 1,319,193 1,319,348 1,319,364 1,321,262 1,321,715 1,322,871 1,324,366 13: 1,295,959 1,296,541 1,302,123 1,308,367 1,312,853 1,316,684 1,324,145 14: 1,292,761 1,294,397 1,294,675 1,296,485 1,303,644 1,305,607 1,312,342 1,313,418 1,315,713 1,319,122 1,320,717 15: 1,297,852 18: 1,299,365 1,305,879 1,310,187 19: 1,309,584 1,310,016 1,315,028 1,321,531 1,323,243 1,323,244 20: 1,317,771 21: 1,308,496 1,314,570 1,320,079 24: 1,291,353 1,292,178 1,300,438 1,311,210 1,313,487 1,315,167 1,316,262 1,318,867 1,319,190 1,321,072	193—	24: 1,322,839 1,325,527 25: 1,317,997 26: 1,313,266 27: 1,295,138 28: 1,295,154 29: 1,297,353 1,308,148 1,314,755 1,324,699 31: 1,293,345 1,294,331 32: 1,297,360 1,301,371 34: 1,307,199 1,308,950 39: 1,309,315 1,318,472 1,318,585 40: 1,323,225 42: 1,311,622 1,312,995 45: 1,305,273 1,313,491 1,322,512 46: 1,301,362 48: 1,290,888 R. 14, 705 1,303,552 1,306,573 1,315,819 1,323,145 49: 1,291,522 1,306,064 1,322,475 50: 1,315,670 55: 1,298,998 1,303,574 1,323,171 56: 1,297,745 1,317,079 58: 1,304,084 60: 1,301,177 1,310,231 61: 1,306,704 1,322,469 1,324,735 62: 1,300,761 1,318,390 1,323,954 63: 1,292,938 194: 1: 1,310,826 1,316,887 1,320,505 2: 1,305,424 1,307,603 1,309,184 3: 1,317,953 1,303,419 1,310,549 7: 1,314,901 1,325,766 10: 1,304,974 27: 1,299,835 32: 1,308,333 38: 1,300,888 39: 1,306,201 48: 1,298,800 51: 1,315,248 1,322,450 53: 1,322,307 55: 1,293,084 1,326,738 61: 1,297,688 1,307,932 63: 1,301,074 1,316,492 66: 1,325,786 70: 1,313,032 73: 1,295,971 74: 1,318,854 75: 1,293,822 1,314,217 1,320,504 80: 1,318,918 83: 1,321,506 84: 1,309,294 85: 1,321,385 88: 1,310,989 97: 1,301,391 195—	195—	6: 1,323,540 1,326,432 14: 1,292,676 1,317,262 20: 1,302,549 32: 1,320,043 1: 1,297,590 1,304,211 1,312,467 1,320,727 1,325,927 1,326,618 3: 1,294,357 1,300,548 1,302,669 1,310,874 1,315,632 1,316,214 1,319,319 1,319,828 1,323,396 1,326,230 4: 1,292,966 1,298,602 1,300,547 1,302,761 1,304,212 1,307,724 5: 1,291,899 1,302,988 1,307,184 6: 1,302,200 8: 1,311,268 14: 1,316,511 1,321,749 19: 1,297,022 1,309,890 1,317,318 1,323,204 21: 1,317,514 1,323,681 25: 1,291,414 1,295,088 1,296,244 1,299,172 1,299,449 1,299,455 1,303,292 1,304,124 1,304,125 1,304,587 1,308,161 1,309,794 1,310,748 1,312,265 1,312,266 1,312,974 1,313,009 1,316,339 1,316,770 1,318,657 1,319,053 1,319,420 1,320,354 1,320,376 1,323,837 1,324,075 1,324,212 1,324,766 1,324,983 1,325,299 1,325,668 1,326,056 26: 1,295,308 1,295,825 1,296,367 1,299,385 1,300,816 1,305,870 1,309,432 1,310,164 1,311,987 1,313,629 1,315,623 1,317,582 1,318,061 1,322,762 1,322,878 1,325,582 1,326,072 1,326,073 1,326,851 27: 1,307,280 1,324,213 28: 1,293,866 29: 1,312,375 1,320,396 31: 1,320,726 70: 1,300,216 2: 1,292,319 1,292,320 6: 1,299,749 6.2: 1,290,409	197—	6.2: 1,293,986 1,299,521 1,308,648 6.4: 1,293,988 1,296,511 1,301,127 1,302,244 1,302,655 1,305,012 1,307,567 1,308,941 1,309,371 1,315,642 1,316,414 9: 1,293,739 1,295,782 1,296,192 1,318,323 1,324,551 11: 1,324,942 13: 1,301,986 1,324,751 19: 1,302,181 22: 1,311,675 1,315,013 1,317,485 25: 1,305,893 1,312,820 1,312,821 26: 1,293,235 27: 1,305,091 33: 1,301,911 36: 1,292,332 37: 1,315,157 41: 1,312,760 1,322,676 43: 1,308,328 44: 1,297,020 47: 1,301,444 60: 1,296,957 1,302,621 1,302,892 1,309,322 1,311,929 63: 1,290,989 1,303,783 1,304,682 1,317,796 1,324,167 66: 1,322,224 69: 1,315,490 72: 1,297,085 1,308,411 1,326,657 78: 1,325,980 79: 1,304,041 80: 1,296,717 1,319,807 81: 1,317,761 82: 1,290,723 1,295,212 1,300,687 1,308,386 83: 1,308,980 1,309,422 84: 1,291,319 1,307,068 1,322,548 88: 1,317,482 92: 1,319,228 97: 1,301,335 1,310,832 98: 1,311,911 1,324,550 100: 1,294,611 103: 1,293,105 1,324,964 110: 1,307,051 113: 1,299,436 1,311,921 1,322,699 114: 1,293,252 1,294,622 1,319,808 117: 1,298,834 1,323,287 120: 1,313,951 123: 1,310,828 1,312,024 1,312,063 126: 1,290,387 1,291,215 1,291,385 1,300,905 1,304,213 1,307,648 1,316,814 1,319,064 1,319,167 1,325,762 1,326,306 127: 1,290,764 1,290,765	197—	127: 1,292,210 1,294,456 1,295,383 1,300,904 1,302,460 1,314,616 1,320,593 1,324,632 1,325,803 1,325,681 128: 1,302,278 129: 1,302,566 130: 1,321,664 132: 1,302,676 133: 1,292,786 1,292,787 1,292,788 1,296,191 1,298,752 1,307,641 1,316,839 1,316,840 134: 1,302,169 135: 1,299,636 1,302,161 1,303,879 1,312,161 1,312,162 138: 1,311,688 1,315,559 139: 1,293,091 1,294,901 1,310,000 1,310,829 142: 1,299,403 1,311,687 143: 1,317,760 1,319,430 145: 1,319,428 151: 1,305,886 153: 1,317,209 157: 1,292,152 1,295,772 1,324,265 160: 1,309,403 1,309,423 161: 1,303,159 171: 1,304,367 1,317,180 172: 1,298,824 176: 1,306,832 177: 1,312,883 1,318,435 179: 1,318,002 1,319,341 180: 1,305,487 181: 1,311,245 184: 1,302,746 186: R. 14, 599 1,294,060 1,309,316 1,311,879 1,320,034 1,322,530 187: 1,306,950 189: 1,295,307 1,304,458 1,322,381 1,326,346 193: 1,303,057 1: 1,291,259 1,294,572 16: 1,298,492 1,318,878 17: 1,321,744 18: 1,310,487 19: 1,304,689 1,304,708 1,309,416 24: 1,305,548 25: 1,315,277 1,325,397 26: 1,294,192 27: 1,314,836 1,321,772 28: 1,316,441 31: 1,306,919 36: 1,290,212 40: 1,308,594 42: 1,317,098 45: 1,306,908 47: 1,290,805 1,304,660 1,306,909 1,309,415 1,310,488 1,326,477 50: 1,317,881 56: 1,300,781 63: 1,290,231 1,298,900 1,320,842	199—	64: 1,307,676 74: 1,293,511 76: 1,300,271 77: 1,300,811 1,325,490 79: 1,307,671 1,307,698 95: 1,310,207 1: 1,293,973 1,322,995 1,322,996 2: 1,291,667 1,296,729 1,305,375 1,312,777 5: 1,317,772 7: 1,309,797 8: 1,295,040 1,326,354 10: 1,306,536 1,311,437 1,322,480 12: 1,292,571 1,292,590 1,293,770 1,297,903 1,318,808 1,319,988 14: 1,306,770 1,310,318 19: 1,298,175 20: 1,324,819 23: 1,300,239 24: 1,292,660 1,293,038 1,295,860 1,298,829 1,307,028 1,311,904 1,312,208 1,312,769 1,314,182 1,315,796 1,315,590 1,317,233 1,318,244 1,318,713 1,319,147 25: 1,298,965 1,312,794 26: 1,296,941 1,326,781 27: 1,292,030 1,292,334 1,292,644 1,294,053 1,294,923 1,295,007 1,295,227 1,295,912 1,295,913 1,295,914 1,296,088 1,297,687 1,298,420 1,298,950 1,299,163 1,300,107 1,300,665 1,302,968 1,303,634 1,306,154 1,306,885 1,307,100 1,307,300 1,307,933 1,308,711 1,309,362 1,309,881 1,314,524 1,315,258 1,316,158 1,316,372 1,317,906 1,318,478 1,322,506 1,323,094 1,323,547 1,323,716 1,324,915 1,325,654 1,325,655 28: 1,296,262 30: 1,307,628 1,307,833 1,314,144 1,323,729 1,325,112 31: 1,290,928 1,293,388 1,294,141 1,294,484 1,297,326
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## Classification of patents—Continued.

200—	31: 1,301,011 1,311,204 1,312,835 1,315,601 1,315,602 1,315,603 1,316,361 1,321,287 1,323,203 32: 1,291,842 1,295,501 1,306,007 1,307,086 1,312,123 1,325,394 33: 1,294,207 1,300,134 1,309,908 34: 1,291,088 1,291,858 1,297,938 1,304,936 1,305,963 1,310,544 1,311,244 1,317,189 1,319,146 1,323,113 1,323,860 1,324,522 1,326,578 35: 1,298,225 1,311,214 36: 1,326,137 44: 1,325,981 50: 1,322,818 54: 1,326,380 64: 1,323,539 1,326,178 67: 1,325,959 70: 1,323,368 77: 1,326,619 87: 1,325,235 90: 1,324,452 94: 1,325,048 1,325,049 99: 1,325,897 100: 1,324,371 109: 1,323,765 1,323,810 1,323,811 130: 1,325,562 132: 1,326,834 133: 1,326,028 135: 1,325,656 172: 1,323,407 1,325,042	204—	1: 1,303,627 1,305,213 1,308,797 1,310,727 1,311,506 1,314,450 1,314,588 1,314,632 1,314,839 1,314,840 1,314,841 1,314,842 1,315,785 1,322,408 1,322,494 1,326,104 1,326,105 1,326,106 3: 1,323,236 4: 1,290,367 1,296,188 1,302,959 1,306,480 1,311,096 1,326,134 5: 1,292,024 1,295,752 1,297,157 1,297,395 1,301,832 1,302,824 1,302,871 1,303,226 1,303,519 1,306,151 1,308,704 1,309,148 1,312,756 1,316,769 1,318,053 1,318,724 1,318,993 1,319,029 1,319,192 1,319,715 1,319,928 1,321,936 1,322,417 1,324,511 7: 1,324,317 1,293,562 1,296,453 1,296,498 8: 1,300,296 1,308,508 1,315,029 1,318,054 1,321,793 1,323,167 9: 1,290,269 1,291,680 1,291,681 1,291,682 1,291,751 1,299,485 1,299,846 1,304,222 1,306,479 1,315,543 1,315,546 1,318,432 1,319,365 1,322,580 1,324,140 10: 1,314,742 11: 1,291,337 1,291,830 1,299,624 1,326,891 15: 1,295,080 1,296,523 1,310,381 1,320,805 1,324,352 18: 1,315,982 1,322,071 1,322,104 19: 1,293,117 1,299,559 1,299,947 1,305,350 1,310,449 1,310,450 20: 1,296,575 1,297,946 21: 1,311,231 1,323,936 24: 1,297,378 1,299,590 25: 1,290,369 1,293,649 1,293,651 1,296,988	204—	25: 1,299,589 1,304,786 1,308,040 1,319,238 1,320,118 28: 1,309,214 29: 1,290,487 1,291,167 1,291,253 1,292,247 1,292,254 1,292,764 1,293,419 1,293,462 1,293,463 1,295,365 1,295,660 1,296,408 1,296,961 1,297,185 1,297,487 1,298,148 1,298,856 1,298,857 1,299,587 1,299,693 1,300,431 1,301,780 1,302,648 1,303,311 1,303,453 1,303,478 1,303,513 1,304,192 1,304,588 1,304,852 1,304,884 1,305,084 1,305,250 1,305,251 1,305,485 1,305,657 1,305,658 1,305,814 1,306,214 1,307,407 1,307,738 1,308,230 1,309,561 1,310,871 1,312,038 1,312,243 1,313,324 1,313,384 1,313,512 1,313,513 1,315,032 1,316,034 1,316,490 1,317,082 1,318,364 1,319,940 1,319,941 1,321,947 1,322,102 1,323,077 1,323,307 1,323,479 1,323,720 1,323,721 1,323,796 1,324,426 1,324,954 1,325,015 1,325,115 1,325,338 1,325,653 1,325,710 1,325,866 31: 1,290,584 1,290,600 1,291,660 1,296,194 1,297,393 1,298,540 1,299,565 1,304,823 1,307,930 1,307,931 1,309,070 1,311,568 1,311,594 1,315,540 1,316,445 1,317,498 1,317,576 1,317,705 1,320,431 32: 1,298,889 1,312,484 1,316,342 1,322,907	204—	32: 1,326,631 1,295,122 1,314,594 34: 1,316,597 1,316,765 38: 1,291,596 1,295,459 1,295,475 1,296,700 1,297,653 1,297,918 1,299,813 1,302,304 1,303,286 1,303,558 1,303,843 1,303,844 1,305,252 1,307,102 1,307,868 1,310,695 1,311,559 1,316,233 1,316,760 1,316,836 1,317,139 1,322,000 1,322,001 1,322,353 1,322,486 1,323,879 52: 1,299,149 1,316,568 53: 1,312,035 1,316,567 1,321,960 1,324,797 57: 1,295,100 1,313,246 58: 1,306,237 1,308,509 1,319,734 60: 1,300,420 61: 1,308,948 1,326,665 62: 1,292,386 1,292,387 1,310,465 1,319,426 1,321,553 63: 1,294,514 1,296,384 1,297,000 1,306,942 1,308,879 1,310,342 1,311,378 1,314,229 1,326,595 64: 1,290,902 1,292,716 1,293,164 1,294,756 1,294,830 1,294,837 1,295,309 1,296,752 1,296,896 1,297,149 1,297,297 1,297,641 1,298,715 1,298,722 1,299,110 1,299,336 1,299,337 1,299,664 1,300,410 1,301,887 1,301,932 1,302,788 1,304,350 1,304,425 1,305,167 1,305,177 1,306,250 1,306,251 1,306,289 1,307,768 1,308,273 1,308,624 1,308,877 1,308,878 1,308,880 1,309,045 1,310,079 1,310,109 1,310,341 1,311,379 1,312,069 1,312,480 1,312,800 1,313,125	204—	64: 1,313,126 1,313,274 1,313,571 1,313,746 1,313,761 1,313,834 1,313,890 1,313,970 1,313,985 1,314,061 1,314,384 1,314,871 1,315,992 1,317,077 1,317,327 1,317,328 1,317,911 1,318,164 1,318,992 1,320,071 1,320,884 1,321,554 1,321,683 1,322,416 1,322,749 1,323,576 1,324,156 1,325,114 1,325,539 1,326,083 1,326,120 1,326,494 1,326,792 65: 1,304,444 1,312,255 1,312,256 1,312,257 1,312,258 1,312,259 1,312,260 1,312,261 1,312,262 1,314,603 1,317,497 1,322,491 205— 1: 1,298,999 1,302,599 3: 1,312,197 1,322,858 4: 1,293,231 8: 1,325,761 13: 1,316,411 1,322,904 14: 1,316,935 1,323,282 16: 1,296,221 20: 1,291,892 21: 1,293,116 22: 1,321,729 29: 1,297,825 206— 1: R. 14, 619 1,296,624 1,312,360 1,316,870 2: 1,311,558 5: 1,302,341 1,303,485 1,309,573 1,318,998 6: 1,292,725 7: 1,298,257 1,304,911 1,320,575 1,320,576 9: 1,302,472 13: 1,321,029 15: 6: 1,299,733 1,321,450 1,324,173 16: 1,290,440 1,309,169 1,309,273 1,310,407 1,314,915 1,318,007 17: 1,292,252 20: 1,301,158 21: 1,309,998 1,311,625 23: 1,293,153 25: 1,291,231 26: 1,294,824 27: 1,297,593 28: 1,292,463 1,296,123 1,296,986 29: 1,320,287 31: 1,321,414 32: 1,293,032 33: 1,318,458 35: 1,292,591 36: 1,294,795 1,296,912	206—	36: 1,298,719 38: 1,317,571 39: 1,296,484 40: 1,294,997 1,302,624 1,305,020 1,309,173 41: 1,290,643 1,293,367 1,294,584 1,296,353 1,297,831 1,299,162 1,301,698 1,305,256 1,305,699 1,317,223 1,320,037 1,320,926 1,321,453 1,322,807 1,324,578 1,323,442 1,325,594 44: 1,291,540 1,294,312 1,296,223 1,301,169 1,301,170 1,301,171 1,301,201 1,301,418 1,302,987 1,306,632 1,312,710 1,313,585 1,313,906 1,322,629 45: 1,299,849 46: 1,303,137 1,307,255 1,310,185 1,316,728 1,319,682 1,321,092 47: 1,298,919 52: 1,304,021 1,317,035 1,322,180 53: 1,297,606 1,319,552 54: 1,300,974 55: 1,309,323 56: 1,290,164 1,299,032 1,306,179 1,310,699 1,314,134 1,320,351 1,322,729 1,323,612 57: 1,291,245 1,302,116 1,307,139 1,307,443 58: 1,316,481 59: 1,298,811 1,312,202 1,312,211 62: 1,320,095 63: 2: 1,297,051 64: 1,319,681 65: 1,326,519 1,326,520 113: 1,294,441 2: 1,317,238 3: 1,310,122 4: 1,301,882 6: 1,306,583 1,314,366 1,321,096 10: 1,314,037 1,325,301 13: 1,291,603 208— 1: 1,290,087 1,316,408 9: 1,290,682 1,309,331 1,313,067 13: 1,296,931 14: R. 14, 613 15: 1,304,821 1,306,622 16: 5: 1,324,096 20: 1,296,654 24: 1,295,804 32: 1,297,796 1,304,790 1,319,321 33: 1,308,270 1,311,668 36: 1,294,303 1,308,377
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## Classification of patents—Continued.

208—	36: 1,318,374 1,326,697 37: 1,309,855 1,315,878 1,326,468 38: 1,304,310 1,313,134 1,313,157 1,317,360 41: 1,299,696 1,321,030 42: 1,295,739 1,299,015 1,306,916 1,308,425 45: 1,300,681 1,302,476 1,303,791 1,306,146 1,311,816 1,315,332 1,318,924 55: 1,311,223 57: 1,299,422 1,299,735 1,306,698 1,317,554 60: 1,306,766 61: 1,317,378 64: 1,290,426 66: 1,322,959 69: 1,323,004 70: 1,320,025 75: 1,300,772 78: 1,304,457 1,314,421 82: 1,315,048 93: 1,293,643 94: 1,316,455 95: 1,322,250 97: 1,298,958 1,322,619 109: 1,300,343 113: 1,292,445 1,297,314 1,301,990 1,302,358 1,309,493 1,326,148 115: 1,320,070 125: 1,306,016 126: 1,290,716 1,295,627 1,303,803 145: 1,325,206 150: 1,292,610 1,291,115 151: 1,293,861 154: 1,304,450 155: 1,319,137 157: 1,303,632 158: 1,320,280 160: 1,316,596 161: 1,303,637 1,318,166 1,324,342 163: 1,297,503 1,303,483 164: 1,313,081 165: 1,296,977 1,297,282 1,297,856 1,299,515 1,302,335 1,302,779 1,306,111 1,308,309 1,308,526 1,310,218 1,311,420 1,313,470 1,315,093 1,317,252 1,317,407 1,317,475 1,317,952 1,319,347 1,320,914 1,321,049 1,321,564 1,323,068 1,325,583 210— 1: 1,290,538 1,294,097 1,297,635 1,303,679 1,305,123 1,307,506 1,309,876 1,309,892 1,314,140 1,315,558 1,318,122	210— 1: 1,318,338 1,321,622 1,323,239 1,323,251 1,323,256 1,324,118 1,325,213 1,325,352 1,325,787 3: 1,322,383 4: 1,321,503 5: 1,291,857 1,296,252 1,301,544 1,309,161 1,311,831 1,312,041 1,312,477 1,312,976 1,315,662 1,317,971 1,326,039 6: 1,302,731 7: 1,294,164 1,319,112 8: 1,318,363 1,326,374 9: 1,309,330 10: 1,290,820 1,302,094 11: 1,294,018 1,316,789 12: 1,293,173 1,293,650 13: 1,292,342 1,292,534 1,302,812 1,302,813 1,302,814 1,305,317 1,308,438 1,308,918 1,308,943 1,311,280 1,316,404 1,316,418 1,316,419 1,316,465 1,323,421 14: 1,293,555 15: 1,296,685 16: 1,291,429 1,291,445 1,291,599 1,293,297 1,295,006 1,297,978 1,299,466 1,302,832 1,302,839 1,303,438 1,304,504 1,306,050 1,307,560 1,307,773 1,310,777 1,311,639 1,312,027 1,313,992 1,314,042 1,314,566 1,318,388 1,319,017 1,320,324 1,320,905 1,322,378 1,322,384 1,324,082 1,326,385 17: 1,292,737 1,314,374 1,294,463 1,321,997 1,314,955 1,317,835 1,318,976 19: 1,291,329 1,296,150 1,307,403 1,321,586 1,326,553 22: 1,293,585 1,294,738 1,326,280 23: 1,300,829 25: 1,293,114 1,299,866 1,300,866 1,309,651 1,312,316 1,313,227 1,319,150 1,325,064	210— 30: 1,296,280 31: 1,326,411 34: 1,292,758 35: 1,298,451 1,321,766 86: 1,292,356 211— 2: 1,313,257 1,315,272 1,319,302 6: 1,292,006 1,317,274 1,318,306 7: 1,293,410 1,293,434 1,294,761 1,295,137 1,295,232 1,298,848 1,307,949 1,313,498 8: 1,290,197 1,290,342 1,291,420 1,292,619 1,293,200 1,297,205 1,297,677 1,297,775 1,300,259 1,300,608 1,301,301 1,303,433 1,305,033 1,307,377 1,307,444 1,308,960 1,309,911 1,310,504 1,310,601 1,310,863 1,310,958 1,311,170 1,312,320 1,313,046 1,313,794 1,314,852 1,315,687 1,315,879 1,316,932 1,317,765 1,318,317 1,319,084 1,321,382 1,321,571 1,322,072 1,324,415 1,325,319 9: 1,292,329 10: 1,323,241 11: 1,320,138 1,321,707 1,321,731 12: 1,304,956 1,312,693 13: 1,290,872 1,291,242 1,294,729 1,295,094 1,295,480 1,301,645 1,301,709 1,302,793 1,308,605 1,309,983 1,316,618 1,317,241 1,318,758 1,318,759 1,320,388 1,320,445 1,321,997 1,323,130 1,324,209 1,324,679 1,325,839 14: 1,290,187 1,291,463 1,292,984 1,293,752 1,293,118 1,294,258 1,300,492 1,300,533 1,300,629 1,300,942 1,302,267 1,304,847 1,304,902 1,305,739 1,306,297 1,313,205 1,311,975	211— 14: 1,311,976 1,312,861 1,313,289 1,313,897 1,314,796 1,314,958 1,315,524 1,317,307 1,317,534 1,319,130 1,319,431 1,320,820 1,322,173 1,323,775 1,326,755 15: 1,301,430 16: 1,290,720 1,291,924 1,295,372 1,297,160 1,297,306 1,298,439 1,299,390 1,300,167 1,300,444 1,302,943 1,303,299 1,303,983 1,304,771 1,306,737 1,309,666 1,310,814 1,311,322 1,314,887 1,315,213 1,315,870 1,315,922 1,316,395 1,317,634 1,321,010 1,321,222 1,322,681 1,323,050 1,323,219 1,325,617 1,326,718 17: 1,293,492 1,304,913 1,306,585 1,311,450 1,315,823 1,319,844 1,323,957 18: 1,299,677 1,303,361 1,304,492 1,318,817 20: 1,294,511 1,297,802 1,298,822 1,321,839 22: 1,294,130 1,299,783 1,322,596 23: 1,296,158 1,299,481 24: 1,292,314 1,293,967 1,298,453 1,301,489 1,301,797 1,303,185 1,304,737 1,308,031 1,308,949 1,312,043 1,313,351 1,315,516 1,320,310 1,320,769 1,322,435 1,324,669 1,328,099 25: 1,295,647 1,308,312 27: 1,302,882 1,303,094 1,324,537 1,325,174 28: 1,297,311 1,297,357 1,304,020 1,305,211 1,313,865 1,317,162 1,320,933 1,322,313 1,325,238 1,325,239 29: 1,291,001 1,292,480 1,293,291 1,302,117	211— 29: 1,311,799 1,319,281 31: 1,292,640 1,297,110 1,299,413 1,308,912 1,310,242 1,322,524 1,326,085 32: 1,293,484 1,298,081 1,299,087 1,300,061 1,301,037 1,314,267 1,324,019 1,325,300 1,326,019 33: 1,290,381 1,293,974 1,293,979 1,294,194 1,294,195 1,294,964 1,299,742 1,303,278 1,304,975 1,304,976 1,304,977 1,308,966 1,309,185 1,309,829 1,309,832 1,310,019 1,312,449 1,312,669 1,313,958 1,325,175 1,290,962 1,310,729 1,321,363 35: 1,320,442 36: 1,295,541 1,312,133 1,314,363 1,316,586 1,321,953 37: R. 14,584 1,294,021 1,304,209 1,306,795 1,308,702 1,309,194 1,309,255 1,311,758 1,312,713 R. 14,739 1,315,404 39: 1,309,327 41: 1,298,993 1,306,257 212— 1: 1,325,336 7: 1,325,579 8: 1,309,016 1,317,464 9: 1,296,201 10: 1,296,756 11: 1,300,255 19: 1,318,114 1,325,818 33: 1,321,412 34: 1,314,257 38: 1,307,412 1,312,115 1,316,256 42: 1,322,744 54: 1,326,076 58: 1,313,741 59: 1,311,469 1,317,504 1,322,934 61: 1,313,108 62: 1,316,181 1,319,964 65: 1,291,746 1,313,331 66: 1,311,234 69: 1,316,589 73: 1,314,815 74: 1,314,694 80: 1,317,871 81: 1,301,359 91: 1,311,692 93: 1,318,467 97: 1,304,465 98: 1,290,469 1,292,308 1,322,074 109: 1,312,869 114: 1,291,457 116: 1,315,495 120: 1,316,868 1,294,770	212— 125: 1,301,706 133: 1,325,259 134: 1,305,396 135: 1,323,575 1,302,861 137: 1,312,166 141: 1,323,719 142: 1,298,372 145: 1,307,545 213— 9: 1,312,593 10: 1,292,583 1,294,287 1,294,288 1,294,343 1,297,862 1,301,281 1,306,040 1,309,291 1,323,291 1,325,518 12: 1,318,241 14: 1,302,056 1,307,254 1,317,598 1,326,567 19: 1,320,359 39: 1,293,889 1,301,297 1,301,423 1,303,378 1,311,988 1,312,167 1,323,787 40: 1,290,117 1,290,708 1,296,230 1,297,808 1,309,057 1,316,415 1,319,311 41: 1,320,011 42: 1,290,255 1,290,308 1,290,309 1,290,321 1,291,338 1,292,358 1,292,862 1,292,863 1,293,299 1,293,300 1,293,315 1,293,422 1,293,455 1,293,618 1,293,619 1,293,675 1,293,890 1,294,797 1,299,114 1,300,403 1,300,421 1,300,457 1,300,459 1,300,460 1,300,461 1,300,469 1,300,470 1,301,680 1,301,681 1,302,436 1,302,704 1,302,705 1,303,341 1,305,987 1,306,402 1,306,429 1,307,087 1,307,307 1,309,021 1,309,297 1,311,699 1,314,188 1,314,369 1,316,588 1,323,260 1,323,266 1,323,679 1,325,156 43: 1,294,724 45: 1,325,897 1,326,890 54: 1,302,931 1,307,227 56: 1,298,238 1,290,099 1,290,969 1,290,970 59: 1,294,014 1,297,400 1,298,370 1,298,669 1,303,316
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## Classification of patents—Continued.

213—	59: 1,314,283 1,319,694 1,323,292 61: 1,292,881 64: 1,290,216 1,290,217 1,290,219 1,290,220 1,290,221 1,290,304 1,290,307 1,290,311 1,290,316 1,290,324 1,290,325 1,290,326 1,291,182 1,292,536 1,292,861 1,293,131 1,293,174 1,293,888 1,293,891 1,295,053 1,295,210 1,296,812 1,298,778 1,300,402 1,300,404 1,300,422 1,300,447 1,300,448 1,300,462 1,300,463 1,300,480 1,300,700 1,301,422 1,301,809 1,301,878 1,301,944 1,301,945 1,301,946 1,301,961 1,302,055 1,302,071 1,302,072 1,302,073 1,302,074 1,302,075 1,302,076 1,302,077 1,302,078 1,302,080 1,303,288 1,303,338 1,303,372 1,303,374 1,303,375 1,303,376 1,303,377 1,303,379 1,303,380 1,303,381 1,303,900 1,303,945 1,305,665 1,307,303 1,307,308 1,307,309 1,307,310 1,307,312 1,307,313 1,307,314 1,307,315 1,308,099 1,308,965 1,318,186 1,319,210 1,319,883 1,320,563 1,321,712 65: 1,309,290 1,309,293 67: R. 14, 582 1,290,813 1,291,029 1,291,177 1,292,032 1,295,193 1,296,563 1,298,004 1,299,351 1,301,307 1,303,504 1,304,055 1,304,261 1,304,276 1,304,695 1,305,472 1,305,521 1,306,443 1,307,427 1,313,381	213—	67: 1,313,882 1,313,451 1,313,452 1,313,453 1,313,677 1,318,819 1,319,224 1,319,421 1,319,449 1,320,763 1,320,937 1,321,519 1,321,714 1,322,112 1,323,326 1,323,634 1,325,162 1,325,422 1,326,271 1,326,551 214—	1: 1,290,655 1,291,610 1,293,466 1,300,111 1,305,319 1,311,493 1,316,987 1,318,624 1,326,874 2: 1,325,536 3: 1,317,816 3.6: 1,309,632 5: 1,291,462 1,321,991 6: 1,292,632 1,292,636 1,293,182 1,315,166 1,325,074 7: 1,303,359 8: 1,325,185 9: 1,302,030 10: R. 14, 598 1,300,800 1,321,184 1,325,055 1,325,812 11: 1,293,259 1,295,432 1,324,247 13: 1,292,852 1,309,585 14: 1,298,499 1,301,630 1,305,602 1,313,928 1,316,129 1,321,025 16: 1,294,566 1,319,704 17: 1,295,849 1,299,872 1,301,051 1,304,553 1,311,917 1,318,063 18: 1,290,163 1,290,385 1,296,998 1,298,327 1,310,866 21: 1,308,641 23: 1,308,986 25: 1,291,305 26: 1,291,165 1,308,013 1,326,001 28: 1,313,619 31: 1,304,351 36: 1,291,019 1,317,756 1,319,005 38: 1,293,561 1,293,664 1,306,158 1,310,986 1,324,785 1,325,864 40: 1,309,905 41: 1,321,781 42: 1,324,017 44: 1,292,154 1,318,914 48: 1,325,181 49: 1,299,516 50: 1,325,182 51: 1,313,416 52: 1,299,527 1,325,183 57: 1,317,484 59: 1,290,537 1,290,792	214—	61: 1,312,066 62: 1,321,826 1,322,840 63: 1,294,876 65: 1,298,766 1,299,829 1,303,854 1,304,026 1,316,851 65.3: 1,303,480 65.4: 1,296,675 1,300,567 1,313,883 1,322,633 1,324,854 1,314,318 67: 1,292,670 1,324,675 73: 1,307,568 75: 1,314,569 76: 1,293,239 1,293,982 77: 1,299,912 78: 1,320,970 81: 1,315,814 81.5: 1,316,195 83: 1,312,304 1,320,782 85: 1,290,267 1,322,595 86: 1,300,649 R. 14, 720 87: 1,298,578 89: 1,294,212 90: 1,293,447 1,319,220 91: 1,310,194 1,313,388 92: 1,304,445 1,309,054 1,317,696 1,320,090 95: 1,303,322 1,317,366 97: 1,307,169 98: 1,317,046 99: 1,309,572 102: 1,316,373 1,316,374 103: 1,324,900 112: 1,319,629 113: 1,306,842 115: 1,308,150 1,311,195 120: R. 14, 731 123: 1,301,208 130: 1,305,087 131: 1,301,643 1,311,451 132: 1,301,192 134: 1,297,150 1,322,476 1,322,477 1,322,478 1,322,570 135: 1,301,803 1,315,684 1,323,323 136: 1,304,869 137: 1,291,635 1,301,762 1,321,983 1,326,337 138: 1,302,857 1,307,356 1,317,431 140: 1,305,420 141: 1,306,748 1,318,788 1,318,789 142: 1,307,448 1,322,040 1,324,799 144: 1,322,773 147: 1,319,872 148: 1,298,114 1,310,243 152: 1,320,377 16: 1,317,662 1: 1,299,914 R. 14, 688 1,307,067 1,308,742 1,315,481 1,324,016 1,326,878 2: 1,299,832 1,312,544 3: R. 14, 629 1,305,775	215—	3: 1,305,677 1,314,379 8: 1,316,116 9: 1,312,581 1,324,256 1,324,354 1,326,813 10: 1,290,655 11: 1,320,277 13: 1,300,252 1,300,896 1,311,419 14: 1,300,222 1,303,710 1,313,674 1,314,318 1,315,802 15: 1,304,304 16: 1,313,987 17: 1,292,541 18: R. 14, 630 19: 1,316,322 24: 1,294,220 1,303,212 24: 1,319,297 26: 1,292,919 1,292,920 33: 1,316,515 34: 1,294,057 1,319,067 1,324,869 1,325,269 47: 1,325,586 50: 1,296,288 51: 1,295,240 52: 1,292,690 1,301,501 1,313,503 53: 1,292,473 1,293,854 1,293,969 1,296,444 1,296,545 1,306,848 1,307,169 1,324,485 1,326,490 54: 1,308,697 1,308,972 1,314,176 1,314,848 57: 1,310,405 60: 1,320,904 62: 1,291,093 1,300,165 1,313,910 63: 1,324,577 1,324,786 1,325,100 65: 1,305,549 1,315,942 1,314,460 69: 1,293,464 1,303,382 1,310,366 1,321,016 1,321,411 70: 1,300,713 77: 1,291,412 1,309,394 78: 1,300,917 1,301,762 80: 1,296,283 1,300,736 R. 14, 681 1,307,356 1,308,226 1,312,913 81: 1,300,224 1,316,231 1,321,205 1,321,425 1,322,913 1,322,914 1,325,056 83: 1,308,606 84: 1,298,313 1,299,974 1,308,745 1,308,746 1,315,424 1,316,746 1,318,112 1,320,863 1,324,896 85: 1,293,088 1,304,098 1,313,264 1,324,254 86: 1,325,984 87: 1,311,288	215—	88: 1,294,142 1,307,363 1,321,695 1,322,125 89: 1,318,671 1,323,723 90: 1,290,859 1,296,959 1,298,128 1,298,212 96: 1,304,193 1,304,002 101: 1,308,302 104: 1,324,321 106: 1,310,999 1,315,287 108: 1,295,515 113: 1,301,510 116: 1,302,354 1,322,656 117: 1,309,994 118: 1,315,624 1,325,859 216—	2: 1,292,752 1,304,373 1,307,891 3: 1,302,018 1,312,597 1,314,760 1,319,676 1,324,489 5: 1,324,050 6: 1,318,945 9: 1,295,016 1,299,194 1,302,142 1,315,888 12: 1,308,322 13: 1,308,280 1,326,201 14: 1,304,943 15: 1,302,735 21: 1,309,147 22: 1,293,959 23: 1,306,459 25: 1,306,745 27: 1,323,419 28: 1,309,069 29: 1,306,359 30: 1,200,639 1,315,405 34: 1,295,676 38: 1,301,017 48: 1,323,940 53: 1,298,806 1,311,643 1,315,956 54: 1,294,290 1,295,592 1,300,408 55: 1,315,737 1,317,389 57: 1,297,664 1,304,319 1,314,988 1,318,715 58: 1,294,918 1,316,225 118: 1,312,837 1,312,772 3: 1,294,930 1,314,399 1,315,082 4: 1,301,903 1,313,369 1,315,241 5: 1,302,869 7: 1,309,932 1,315,334 1,320,002 1,322,354 9: 1,319,973 12: 1,306,267 1,311,149 1,312,868 1,316,194 1,317,140 1,317,317 1,319,835 1,320,312 1,320,363 1,323,098 1,325,330 1,325,493 1,326,708 13: 1,317,830 1,320,758 14: 1,308,678 15: 1,294,302 1,307,757 1,308,789 1,308,865 1,310,777	217—	15: 1,318,532 1,322,419 1,323,109 1,326,353 16: 1,298,349 20: 1,316,286 1,317,845 21: 1,306,264 1,309,877 22: 1,290,157 1,308,893 23: 1,324,760 25: 1,324,580 26: 1,302,992 1,305,908 1,312,238 27: 1,316,304 1,323,074 1,326,184 28: 1,306,918 1,323,189 29: 1,313,337 30: 1,312,502 31: 1,293,331 1,303,873 1,308,578 32: 1,307,621 34: 1,318,500 1,320,069 35: 1,290,689 1,293,589 1,307,600 1,324,828 36: 1,290,818 1,318,094 43: 1,300,671 1,304,994 1,309,341 44: 1,292,895 1,297,564 1,309,502 1,320,397 1,323,534 45: 1,321,097 46: 1,315,175 1,317,438 47: 1,295,674 1,298,598 1,299,322 1,303,746 1,306,338 1,324,313 1,325,323 48: 1,295,403 1,295,723 1,297,885 49: 1,307,434 51: 1,291,154 1,323,521 54: 1,290,681 1,306,408 1,320,713 56: 1,292,893 1,301,826 1,310,352 1,313,679 1,316,818 57: 1,295,737 1,298,135 1,315,143 1,317,026 59: 1,293,324 60: 1,290,254 1,296,260 1,300,027 1,303,441 1,306,846 1,306,853 1,310,647 1,312,636 1,314,950 1,321,194 1,324,094 1,324,455 1,324,600 1,324,601 1,325,349 61: 1,295,119 1,320,454 64: 1,291,082 66: 1,320,220 69: 1,315,371 1,316,572 1,317,752 1,318,682 72: 1,320,205 74: 1,292,216 76: 1,297,411
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## Classification of patents—Continued.

217—	76: 1,307,765 81: 1,320,862 91: 1,297,419 1,320,024 1,326,862 92: 1,315,119 1,315,120 93: 1,311,360 95: 1,307,845 96: 1,309,779 99: 1,311,745 104: 1,300,011 118: 1,305,903 122: 1,294,092 1,294,093 1,302,429 1,310,328 1,311,086 1,320,591 123: 1,305,074 124: 1,299,127 1,309,079 125: 1,298,144 1,303,231 1,306,941 1,308,824 1,310,356	219—	4: 1,318,495 1,318,563 1,320,895 1,320,897 1,322,479 1,323,913 5: 1,294,500 6: 1,313,025 8: 1,290,653 1,291,422 1,291,601 1,293,538 1,293,872 1,294,250 1,294,409 1,295,457 1,296,020 1,296,358 1,298,590 1,298,603 1,301,347 1,303,230 1,305,039 1,305,362 1,306,295 1,306,746 1,307,030 1,313,572 1,314,273 1,314,674 1,316,334 1,318,147 1,320,123 1,320,127 1,323,556 1,323,768 1,324,227 1,326,601 10: 1,292,037 1,292,812 1,293,781 1,295,009 1,296,780 1,299,150 1,302,413 1,302,440 1,305,503 1,308,781 1,309,523 1,310,070 1,310,411 1,310,418 1,310,419 1,311,422 1,312,039 1,312,844 1,314,816 1,316,383 1,316,384 1,316,385 1,316,386 1,320,896 1,323,178 1,323,621 11: 1,299,931 1,304,624 1,304,625 1,308,655 1,323,751 1,326,479 1,329,903 1,301,331 1,302,386 1,304,545 1,309,947 1,312,254 1,321,309 13: 1,305,360 1,305,361 1,305,363 1,308,782 1,320,894 1,320,076 1,320,915 1,292,937 1,292,800 1,296,350 1,300,117 1,303,481 1,303,681 1,306,294 1,310,131 1,326,743 16: 1,324,337 19: 1,291,423 1,292,004 1,293,141 1,295,643 1,301,233 1,304,101 1,307,048 1,307,198 1,308,551	219—	19: 1,309,845 1,316,190 1,318,152 1,318,746 1,319,533 1,321,071 1,321,828 1,324,051 1,326,588 20: 1,300,215 R. 14,685 1,303,323 1,303,669 1,303,670 1,308,127 1,314,671 1,314,881 1,318,196 1,322,161 21: 1,304,146 1,312,270 1,312,347 1,325,022 22: 1,321,649 24: 1,292,402 1,293,171 1,299,008 1,318,168 1,321,696 25: 1,290,289 1,293,010 1,293,818 1,306,723 1,318,554 1,319,524 1,322,853 26: 1,293,320 1,308,994 1,316,368 1,324,969 27: 1,316,617 28: 1,315,172 1,320,156 30: 1,323,504 32: 1,294,597 34: 1,304,687 1,305,130 1,310,838 35: 1,294,269 1,295,045 1,297,281 1,305,394 1,309,873 1,311,464 1,317,864 1,317,883 1,319,002 1,323,525 36: 1,302,946 1,306,948 1,310,060 1,317,863 1,324,001 37: 1,307,587 1,322,670 38: 1,291,708 1,292,657 1,292,759 1,293,718 1,295,509 1,293,456 1,296,043 1,297,369 1,297,581 1,297,814 1,298,505 1,300,440 1,302,309 1,304,365 1,304,896 1,308,211 1,308,860 1,309,234 1,309,539 1,309,697 1,310,535 1,310,873 1,312,554 1,314,447 1,315,475 1,317,899 1,318,237 1,318,546 1,320,528 1,320,787 1,321,462 1,322,556 1,321,608 1,322,556 1,322,761 1,323,471 1,323,643 1,323,999	219—	38: 1,324,002 1,324,707 39: 1,293,896 1,294,605 1,295,416 1,295,500 1,298,301 1,300,172 1,307,081 1,308,836 1,313,519 1,314,324 1,316,161 1,319,733 1,325,559 40: 1,292,431 1,293,964 1,294,015 1,299,649 1,319,315 1,322,860 1,326,443 41: 1,308,023 1,317,256 1,320,941 44: 1,296,387 1,318,168 1,319,559 45: 1,307,556 1,307,615 1,319,728 1,319,927 1,326,133 46: 1,312,830 47: 1,307,773 1,321,221 1,321,492 48: 1,307,043 1,313,853 1,315,617 1,316,341 1,319,542 49: 1,314,295 1,321,864 50: 1,306,085 1,310,696 1,315,579 51: 1,315,330 55: 1,293,991 1,300,483 1,320,119 56: 1,308,043 1,320,120 57: 1,309,802 1,321,483 1,321,509 1,321,522 1,324,813 60: 1,323,176 62: 1,292,403 1,297,822 1,321,873 63: 1,291,106 1,293,440 1,297,472 1,301,995 1,307,263 1,315,791 1,316,321 1,316,350 1,318,128 1,320,155 1,322,073 1,323,084 1,323,220 64: 1,308,946 1,318,838 1,321,104 1,324,582 67: 1,294,607 1,315,803 1,320,890 69: 1,299,265 1,318,028 1,318,029 1,318,030 1,318,031 1,321,682 70: 1,322,701 71: 1,290,075 1,326,285 73: 1,303,404 75: 1,298,421 1,317,774 76: 1,297,744 1,298,457 1,298,627 1,301,227 1,309,181 1,316,220 1,322,573 151: 1,321,470 220—	220—	1: 1,298,511 1,303,153 1,309,099 1,320,418 1,323,064 4: 1,293,549 1,311,155 1,311,753 1,322,962 1,326,646 5: 1,290,965 1,291,820 1,292,935 1,296,653 1,299,291 1,307,584 1,313,387 1,319,826 1,324,445 1,324,446 6: 1,296,473 1,300,155 1,306,132 1,306,136 1,312,403 1,315,061 1,317,837 1,322,700 1,325,555 1,326,003 7: 1,314,862 1,315,067 8: 1,321,317 9: 1,297,739 1,302,694 1,306,281 10: 1,298,884 1,306,808 11: 1,318,909 14: 1,292,419 1,298,383 1,303,935 1,310,725 15: 1,310,635 16: 1,321,120 17: 1,290,057 1,296,272 1,296,742 1,301,650 1,304,415 1,324,653 20: 1,302,865 1,308,119 1,310,516 1,310,571 1,324,891 1,326,114 21: 1,310,161 22: 1,305,756 1,310,517 1,326,070 24: 1,294,610 1,300,836 1,303,294 1,304,467 1,304,772 1,307,263 1,307,494 1,307,755 1,311,077 1,314,989 1,320,452 25: 1,311,009 26: 1,308,573 1,319,298 27: 1,293,892 28: 1,299,766 32: 1,308,563 1,308,935 1,312,892 1,315,803 1,316,240 1,316,240 1,316,600 1,316,948 1,322,400 33: 1,290,303 35: 1,317,421 36: 1,315,863 39: 1,306,641 1,319,136 40: 1,305,197 1,311,091 1,324,995 1,315,247 41: 1,306,312 1,311,273 1,313,003 1,319,021 1,320,067 42: 1,309,628 1,318,370 1,324,528 43: 1,308,627	220—	43: 1,324,455 1,326,885 45: 1,298,617 46: 1,314,392 47: 1,305,929 48: 1,298,202 1,307,301 1,319,981 1,324,207 51: 1,307,940 1,316,508 52: 1,302,297 53: 1,308,891 1,308,892 1,312,466 1,314,162 1,320,757 55: 1,308,197 1,310,836 1,312,626 1,316,460 57: 1,308,533 1,314,269 1,320,729 1,324,981 1,326,087 58: 1,299,063 1,301,205 59: 1,292,015 60: 1,296,576 1,301,676 1,316,285 61: 1,303,175 1,314,708 1,315,033 63: 1,309,526 1,309,866 1,317,343 64: 1,290,061 1,290,378 65: 1,295,699 66: 1,307,608 1,315,941 1,319,747 67: 1,295,004 1,295,353 1,295,902 1,306,809 1,316,237 1,316,238 1,317,541 1,323,254 68: 1,295,032 1,311,541 69: 1,298,683 1,321,666 71: R. 14,695 1,303,465 1,313,022 1,314,445 73: 1,308,622 1,310,857 74: 1,296,339 1,297,403 1,309,667 75: 1,305,632 1,316,968 1,318,771 1,318,809 76: 1,318,772 77: 1,312,663 78: 1,296,560 79: 1,320,466 80: 1,303,532 81: 1,323,596 82: 1,308,703 1,309,615 1,310,219 84: 1,312,575 85: 1,306,421 1,324,682 86: 1,310,240 1,312,695 1,312,701 1,314,306 1,316,154 1,317,595 1,320,559 1,322,535 1,324,995 87: 1,318,636 1,323,918 88: 1,302,318 1,309,218 1,310,241 1,312,745 1,312,822 1,321,799 89: 1,290,401 90: 1,316,428
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## Classification of patents—Continued.

220—	91: 1,302,253 92: 1,290,502 R. 14, 703 94: 1,307,438 1,324,432 95: 1,318,384 96: 1,311,005 97: 1,294,820 1,317,260 111: 1,291,693 1,297,756 1,299,375 115: 1,295,517 1,297,823 1,297,943 1,300,710 1,300,976 1,301,694 120: 1,290,302 1,292,988 1,298,922 121: 1,291,401 1,298,872 124: 1,296,695 1,296,721 1,298,123 1,299,651 1,301,729 1,302,175 1,304,391 125: 1,291,956 1,299,369 1,300,873 1,310,064 136: 1,301,031 137: 1,298,968 138: 1,295,417 1,299,682 1,300,712 1,303,751 141: 1,291,152 3: 1,291,279 6: 1,325,284 11: 1,296,716 13: 1,304,800 15: 1,320,932 16: 1,306,150 17: 1,304,163 19: 1,305,572 20: 1,326,853 23: 1,293,522 1,296,447 1,298,031 1,299,913 1,301,868 1,308,839 1,309,167 1,311,103 1,325,828 24: 1,320,429 25: 1,296,045 1,314,156 1,315,724 26: 1,314,294 27: 1,306,263 31: 1,296,341 1,326,358 33: 1,318,810 44: 1,293,859 45: 1,302,289 46: 1,304,301 47: 1,303,845 1,319,523 1,325,573 1,326,845 48: 1,300,019 1,307,506 50: 1,291,447 51: 1,307,478 1,325,134 56: 1,311,013 57: 1,298,865 59: 1,303,696 60: 1,290,991 1,293,860 1,295,433 1,296,884 1,299,758 1,308,376 1,309,819 1,310,083 1,311,004 1,311,085 1,311,354 1,313,189 1,314,065 1,316,309 1,320,275 1,322,426 61: 1,295,665 1,305,718 1,310,609 1,311,227	221—	61: 1,316,723 62: 1,291,916 1,303,141 1,314,957 1,323,346 64: 1,301,847 1,303,630 1,312,629 66: 1,294,596 67: 1,299,567 1,306,313 1,314,987 1,325,437 72: 1,305,289 74: 1,294,499 1,295,321 1,303,814 1,312,642 1,316,557 1,325,796 77: 1,296,391 78: 1,296,298 1,304,327 1,318,414 1,320,976 1,323,875 79: 1,299,487 1,300,183 1,299,743 1,312,912 1,318,928 1,319,264 1,321,020 1,325,002 1,325,386 80: 1,295,420 1,295,670 81: 1,306,743 93: R. 14, 641 1,308,242 94: 1,290,435 1,292,848 1,293,438 1,326,880 95: 1,291,280 1,293,017 1,301,677 1,315,014 1,318,217 1,319,691 1,322,881 1,323,234 96: 1,297,595 1,313,852 97: 1,292,904 1,295,508 1,304,305 1,317,594 98: 1,297,244 99: 1,291,140 1,297,458 1,301,861 1,303,708 1,304,028 1,305,139 1,308,572 1,308,713 1,310,822 1,317,144 1,326,705 1,326,837 100: 1,296,351 1,297,210 1,297,801 1,303,158 1,307,827 1,307,828 1,307,829 1,308,547 1,311,172 1,311,271 1,326,207 101: 1,301,781 102: R. 14, 702 1,296,032 1,306,607 1,308,091 1,308,258 1,312,351 1,325,567 103: 1,291,528 1,291,774 1,295,451 1,297,649 1,297,865 1,299,001 1,302,014 1,302,640 1,303,145 1,320,845 104: 1,294,056 1,295,540 1,313,174	222—	104: 1,320,250 1,326,053 106: 1,293,531 1,294,299 107: 1,296,788 1,297,505 1,309,059 1,313,731 108: 1,291,759 1,294,187 1,319,534 1,319,830 110: 1,305,795 112: 1,325,602 113: 1,303,215 114: 1,304,437 1,305,476 1,319,898 1,322,449 116: 1,291,804 1,298,003 1,302,276 1,309,688 1,326,253 118: 1,300,441 1,317,133 1,323,625 119: 1,291,343 1,295,057 1,300,400 1,308,714 1,314,766 120: 1,291,818 1,296,540 1,313,653 122: 1,298,738 1,299,948 1,308,252 1,314,054 1,324,045 1,326,612 123: 1,320,678 125: 1,325,142 126: 1,291,973 1,317,733 127: 1,299,652 1,305,423 1,312,984 1,314,398 1,314,683 1,321,226 1,322,574 128: 1,300,419 1,326,711 130: 1,308,679 131: 1,291,882 133: 1,319,952 135: R. 14, 692 1,290,090 1,293,092 1,297,863 136: 1,291,151 1,294,703 137: 1,302,922 1,314,991 141: 1,325,139 142: 1,306,823 143: 1,294,641 1,295,609	223—	19: 1,324,004 20: 1,313,777 21: 1,313,717 22: 1,291,419 27: 1,299,089 31: 1,295,042 1,303,190 1,303,992 1,311,062 1,311,194 1,315,338 1,316,813 1,321,141 36: 1,306,668 37: 1,293,660 1,313,556 38: 1,291,968 1,314,723 51: 1,299,971 1,301,093 1,311,125 1,307,069 1,308,800 53: 1,302,305 1,323,405 55: 1,299,039 59: 1,318,859 224— 0.5: 1,304,468 1: 1,292,875 1,323,701 2: 1,295,831 1,297,008 1,319,494 1,320,751 1,322,198 1,324,419 3: 1,302,799 4: 1,292,187 1,302,066 1,309,865 1,309,988 1,313,644 1,313,843 1,315,326 1,315,729 5: 1,290,827 1,302,312 1,304,114 6: 1,302,927 1,307,597 1,308,759 1,317,234 7: 1,290,056 11: 1,301,421 23: 1,293,791 1,294,840 1,306,243 1,310,377 1,326,015 1,326,016 25: 1,292,728 1,296,619 1,318,850 28: 1,320,934 1,325,607 29: 1,290,776 1,292,054 1,292,452 1,292,687 1,292,813 1,293,557 1,294,653 1,294,673 1,295,442 1,295,806 1,295,923 1,296,768 1,297,942 1,301,028 1,304,502 1,304,696 1,305,156 1,305,220 1,306,712 1,306,849 1,307,181 1,307,722 1,307,803 1,309,268 1,309,470 1,310,593 1,310,975 1,311,267 1,311,463 1,311,993 1,312,524 1,312,562 1,312,829 1,313,687 1,313,959 1,313,968 1,315,147 1,315,240	224—	29: 1,315,657 1,317,584 1,317,751 1,318,252 1,319,125 1,319,388 1,320,064 1,320,382 1,320,833 1,321,247 1,321,794 1,322,678 1,322,680 1,323,896 1,324,461 1,325,083 1,325,066 1,325,993 1,326,739 37: 1,319,660 45: 1,291,359 1,305,831 1,306,083 1,307,707 1,313,047 1,314,171 1,320,620 1,323,009 1,325,692 47: 1,305,797 57: 1,300,030 1: 1,317,731 2: 1,304,390 17: 1,318,547 18: 1,305,754 21: 1,294,623 1,300,285 1,316,528 1,300,490 22: 1,324,206 23: 1,295,541 26: 1,296,172 1,299,586 1,299,767 1,302,092 1,323,069 30: 1,297,333 35: 1,290,941 1,301,229 38: 1,320,975 40: 1,319,376 1,319,377 226— 4: 1,306,502 5: 1,300,754 9: 1,290,055 1,290,656 1,294,579 1,298,814 1,300,758 1,303,093 1,305,584 1,307,248 1,311,144 1,313,301 12: 1,306,890 19: 1,320,858 20: 1,321,833 21: 1,296,300 24: 1,290,358 1,308,101 26: 1,324,644 28: R. 14, 657 1,290,424 1,307,898 33: 1,290,908 1,293,575 1,302,086 1,303,270 1,303,890 1,305,627 1,306,319 1,310,567 1,311,393 1,312,531 1,313,336 34: 1,290,534 37: 1,320,649 1,323,154 71: 1,320,749 73: 1,325,799 84: 1,324,645 86: 1,316,996 88: 1,319,845 96: 1,315,403 98: 1,321,916 116: 1,325,991 127: 1,318,581 128: 1,319,439 129: 1,315,140 227— 7: 1,309,950 8: 1,307,468 1,312,399	227—	8: 1,318,797 11: 1,292,772 1,300,870 1,321,869 15: 1,305,281 22: 1,301,497 1,303,706 25: 1,300,752 29: 1,300,068 228— 2: 1,325,302 4: 1,302,862 1,319,595 5: 1,293,066 1,294,345 6: 1,301,734 1,311,552 12: 1,308,147 15: 1,306,546 17: 1,312,725 23: 1,305,107 25: 1,299,784 34: 1,313,444 36: 1,314,201 37: 1,315,979 40: 1,318,262 42: 1,316,604 47: 1,308,881 1,322,869 49: 1,304,809 1,311,348 50: 1,309,314 54: 1,314,769 58: 1,304,427 61: 1,304,018 63: 1,300,430 64: 1,314,719 229— 1: 1,294,029 1,296,786 1,304,410 2: 1,292,628 3: 1,293,316 1,293,317 1,295,418 1,297,994 1,308,317 1,310,117 1,325,930 4: 1,296,132 5: 1,301,840 1,308,793 6: 1,303,934 1,305,164 1,305,630 1,310,403 1,314,869 1,318,570 7: 1,290,750 1,293,502 1,295,997 1,309,030 1,312,472 1,317,501 8: 1,293,716 12: 1,297,152 1,307,926 1,313,397 1,315,394 1,316,656 1,319,432 1,319,814 13: 1,296,923 1,307,351 14: 1,302,710 15: 1,306,796 16: 1,291,161 1,308,058 1,310,765 1,319,263 1,323,170 17: 1,294,011 1,296,140 1,303,138 1,308,883 1,324,753 21: 1,294,210 1,300,164 1,310,698 23: R. 14, 716 1,298,921 1,315,102 1,315,103 1,315,476 1,324,168 1,324,873 27: 1,318,124 28: 1,292,174 1,301,161 1,321,740 29: 1,321,017 1,315,993 30: 1,315,993 31: 1,290,765 1,297,636
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## Classification of patents—Continued.

229—	31: 1,311,047	229—	92.1: 1,318,236	230—	27: 1,310,332	232—	42: 1,296,369	234—	55: 1,300,909	235—	60: 1,293,234
	33: 1,305,544		1,319,471		1,310,471		1,314,878		56: 1,292,135		1,293,544
	34: 1,310,006		1,290,891		1,310,876		1,295,209		1: R. 14, 699		1,293,981
	35: 1,295,260		1,307,421		1,311,693		1,309,323		1,292,179		1,294,704
	1,295,824		1,291,694		1,314,707		1,322,522		2: 1,301,678		1,294,727
36: 1,302,361		92.7: 1,313,293		1,315,089		1,305,732		3: 1,291,753		1,296,354	
1,311,325		1,317,537		1,315,256		1,297,227		1,294,507		1,296,355	
1,321,727		92.9: 1,291,439		1,315,257		1,298,058		1,302,613		1,296,659	
1,324,708		93: 1,293,085		1,316,417		1,326,376		1,302,600		1,296,953	
38: 1,322,637		230—	1: 1,290,721		1,319,775		1,321,288		1,311,884		1,298,720
39: 1,297,026			1,291,988		1,320,792		1,322,139		1,314,345		1,299,052
1,298,635			1,295,055		1,320,942		1,321,353		1,323,303		1,302,465
40: 1,291,984			1,295,618		1,321,022		1,321,354		5: 1,292,354		1,305,124
1,302,236			1,300,253		1,322,145		1,303,203		1,318,332		1,305,537
41: 1,307,638			1,300,638		1,322,277		1,304,621		7: 1,306,240		1,308,133
1,323,715			1,301,056		1,322,967		1,316,849		9: 1,302,509		1,309,276
42: 1,313,948			1,301,939		1,323,053		1,308,271		10: 1,325,425		1,309,692
43: 1,30,507			1,303,261		1,324,056		1,296,399		26: 1,297,037		1,309,854
1,303,723			1,305,709		1,326,027		1,307,000		31: 1,320,680		1,309,897
1,312,434			1,316,907		1,326,427		1,317,988		1,320,881		1,310,204
44: 1,290,386			1,321,378		1,326,620		1,322,745		32: 1,291,018		1,310,963
1,293,801			1,322,582		1,326,764		1,290,983		1,291,317		1,311,373
1,297,442			1,322,886		29: 1,301,751		1,304,840		1,294,307		1,313,177
1,305,707			1,326,155		30: 1,291,520		1,320,419		1,294,308		1,313,230
1,306,574			2: 1,293,729		1,291,618		1,291,363		1,294,637		1,313,231
1,316,078			1,295,989		1,294,869		1,291,363		1,295,900		1,316,434
45: 1,299,683			1,296,872		1,295,068		1,295,406		1,306,195		1,318,395
1,303,489			1,303,059		1,315,233		1,307,902		1,310,819		1,318,397
46: 1,322,290			1,307,459		1,315,234		1,309,235		1,310,833		1,318,398
1,323,335			6: 1,321,923		1,316,855		1,309,437		1,316,971		1,318,798
1,309,499			1,324,079		1,319,776		1,316,260		44: 1,312,747		1,318,799
1,318,628			7: 1,295,510		1,321,340		1,316,657		45: 1,297,274		1,320,618
48: 1,299,824			1,302,010		1,321,764		1,319,217		50: 1,312,070		1,321,260
1,303,687			1,308,597		31: 1,321,764		1,320,097		51: 1,304,581		1,321,648
51: 1,291,841			11: 1,298,171		32: 1,294,058		1,320,291		1,307,913		1,323,381
1,302,132			1,304,671		1,295,170		1,323,062		52: 1,308,279		1,323,475
52: 1,306,149			1,308,756		1,298,111		1,323,846		54: 1,300,686		1,323,505
53: R. 14, 650			1,308,982		1,298,112		1,306,631		1,304,580		1,324,460
54: 1,296,760			1,314,049		1,301,209		1,306,985		1,307,098		1,325,469
1,299,503			1,320,224		1,307,893		1,310,985		1,310,196		1,325,625
1,305,198			1,325,591		1,313,160		1,314,427		1,304,555		1,325,969
1,305,199			1,326,043		1,315,527		1,317,321		1,305,134		1,326,428
56: 1,292,902			1,326,673		33: 1,310,039		1,322,148		56: 1,319,255		1,326,564
58: 1,298,252			13: 1,296,567		1,314,314		1,300,931		58: 1,290,432		61: 1,297,237
62: 1,291,797			1,296,414		34: 1,291,609		1,299,427		1,292,085		1,298,267
1,291,974			1,307,999		1,299,761		1,300,191		1,292,044		1,301,795
1,310,288			1,315,931		1,299,762		1,316,658		1,292,971		1,322,751
1,310,289			1,318,204		1,301,987		1,318,723		1,293,094		1,292,070
65: 1,310,247			1,318,750		1,308,288		1,293,155		1,293,245		1,292,151
1,317,687			1,320,866		1,310,722		1,291,351		1,294,196		1,292,513
67: 1,302,128			1,320,874		1,310,944		1,308,580		1,294,725		1,294,425
68: 1,291,024			1,296,828		1,322,273		1,316,175		1,294,726		1,294,537
1,292,264			1,310,116		36: 1,298,291		1,316,176		1,294,847		1,294,745
1,298,030			1,312,707		1,303,029		1,299,041		1,295,167		1,302,250
1,306,378			1,320,216		1,306,159		1,300,967		1,293,219		1,302,464
1,315,070			1,326,652		1,311,660		1,303,126		1,299,786		1,313,517
70: 1,310,188			16: 1,308,603		1,321,117		1,317,513		1,305,546		1,317,604
1,319,525			17: 1,312,228		37: 1,294,870		1,321,671		1,307,683		1,317,965
71: 1,304,877			22: 1,297,692		38: 1,317,693		1,290,890		1,308,117		63: 1,301,942
1,309,223			1,304,046		1: 1,293,501		1,309,531		1,309,898		1,312,002
1,317,114			1,310,584		1,296,712		1,313,333		1,311,526		67: 1,290,354
1,324,628			1,313,700		1,296,712		1,322,515		1,315,576		73: 1,308,510
72: 1,292,967			1,322,363		1,298,048		1,323,374		1,316,461		74: 1,298,599
1,295,833			23: 1,323,854		1,302,052		1,326,747		1,317,454		1,323,548
1,297,778			24: R. 14, 667		1,306,973		1,323,209		1,317,509		75: 1,297,711
1,303,968			1,291,875		1,313,354		1,296,477		1,319,914		78: 1,312,797
1,304,145			1,293,204		2: 1,313,101		1,293,747		1,322,329		1,314,897
1,304,161			1,303,621		4: 1,291,810		1,310,200		1,325,926		79: 1,306,606
1,306,647			1,306,937		1,325,197		1,310,201		1,294,157		1,308,548
1,315,696			1,313,099		6: 1,320,421		1,304,727		1,295,396		1,309,872
73: 1,303,063			1,315,433		8: 1,309,044		1,309,821		1,296,073		1,318,135
1,305,304			1,321,920		12: 1,295,768		1,317,672		1,296,118		80: 1,292,487
1,324,100			1,324,705		1,297,732		1,309,720		1,296,119		1,325,212
74: 1,320,349			1,325,255		15: 1,293,695		1,322,598		1,298,198		81: 1,294,853
1,323,578			1,317,363		19: 1,324,688		1,303,099		1,301,318		1,304,781
75: 1,294,481			26: 1,317,363		23: 1,305,722		1,291,731		1,301,941		82: 1,301,073
76: 1,295,832			27: R. 14, 621		24: 1,307,649		1,299,154		1,302,032		1,302,501
1,302,885			1,290,129		33: 1,295,624		1,299,154		1,302,050		1,308,787
77: 1,291,023			1,290,796		34: 1,293,439		1,298,345		1,302,159		1,309,536
1,294,324			1,290,994		1,298,345		1,307,242		1,291,874		1,311,384
78: 1,290,083			1,291,504		1,298,854		1,305,708		1,304,776		1,326,504
1,294,436			1,292,905		1,292,905		1,307,601		1,308,506		1,308,506
1,307,447			1,294,564		1,294,564		1,311,952		1,311,041		1,306,379
1,314,781			1,295,491		1,299,740		1,314,179		1,311,716		1,308,748
80: 1,294,356			1,295,529		1,316,837		1,322,613		1,311,729		1,321,845
1,318,895			1,295,947		40: 1,299,343		1,323,214		1,311,730		85: 1,292,600
81: 1,298,473			1,295,948		1,326,791		1,309,813		1,312,018		1,325,877
82: 1,295,527			1,295,991		41: 1,295,120		1,297,761		1,314,094		86: 1,311,100
1,297,941			1,298,957		1,297,761		1,308,772		1,314,105		87: 1,293,392
1,303,551			1,299,211		1,301,864		1,315,201		1,315,303		88: 1,310,139
84: 1,297,555			1,299,478		1,302,125		1,309,287		1,316,523		89: 1,326,240
1,307,278			1,300,821		1,299,737		1,309,413		1,317,466		90: 1,299,489
1,324,692			1,301,242		1,305,865		1,308,128		1,317,467		91: 1,292,925
85: 1,306,061			1,304,439		1,306,971		1,294,248		1,318,587		1,293,130
1,306,224			1,304,930		1,307,352		1,315,588		1,319,070		1,294,433
1,322,569			1,305,049		1,316,023		1,299,197		1,323,206		1,294,700
87: 1,292,891			1,305,758		1,316,152		1,304,618		1,323,283		1,297,554
1,295,461			1,306,680		1,322,057		1,325,138		1,323,857		1,301,235
89: 1,312,513			1,307,039		1,324,444		1,299,236		1,325,819		1,311,173
91: 1,324,132			1,307,061		1,324,531		1,306,481		1,291,859		1,311,876
92.1: 1,291,889			1,307,071		1,324,608		1,323,058		1,292,301		1,312,807
1,299,021			1,308,387		1,325,453		1,320,355		1,292,537		1,296,727
1,303,412			1,309,528		42: 1,292,092				1,292,538		1,302,616



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60: 1,310,507 68: 1,314,376 80: 1,312,639 82: R. 14, 672 1,312,244 1,312,253 1,326,640 237—	1: 1,320,640 2: 1,301,419 3: 1,300,951 1,301,136 1,304,446 1,310,348 8: 1,325,952 9: 1,321,395 12.3: 1,291,532 1,294,438 1,304,047 1,306,876 1,314,697 1,315,195 1,315,251 1,317,491 14: 1,325,834 16: 1,303,977 17: 1,297,124 33: 1,290,635 1,292,410 37: 1,311,783 40: 1,319,924 43: 1,318,457 46: 1,296,968 55: 1,314,824 56: 1,291,579 1,292,515 61: 1,294,517 67: 1,294,380 68: 1,294,106 1,318,514 78: 1,293,523 1,295,983 1,299,970 1,305,945 1,309,519 1,310,705 1,311,701 1,320,724 1,325,587 79: 1,303,181 1,319,052 199: 1,299,955 238—	1: 1,296,348 1,305,988 1,307,085 2: 1,290,185 1,290,428 1,291,410 1,292,079 1,292,811 1,293,816 1,298,827 1,299,061 1,300,101 1,303,824 3: 1,292,796 1,293,598 1,294,131 1,295,532 1,297,828 1,298,812 1,298,946 1,299,879 1,326,109	238—	4: R. 14, 632 1,290,240 1,291,706 1,292,554 1,292,555 1,292,756 1,292,845 1,292,846 1,292,873 1,293,340 1,294,778 1,295,663 1,295,771 1,296,263 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244—	12: 1,301,196 1,302,864 1,303,544 1,304,883 1,307,720 1,312,571 1,313,828 1,316,278 1,316,280 1,318,791 1,324,996 1,325,571 1,298,082 1,313,825 1,315,884 1,319,677 1,290,235 1,290,481 1,290,836 1,290,847 1,291,679 1,294,334 1,294,413 1,294,774 1,295,398 1,295,649 1,296,730 1,300,927 1,302,214 1,302,235 1,303,999 1,304,398 1,306,750 1,308,175 1,308,657 1,310,737 1,311,076 1,312,686 1,313,290 1,315,606 1,316,279 1,318,845 1,322,225 1,322,632 1,323,842 1,323,959 1,325,230 1,325,685 1,326,220 1,326,535 1,290,549 1,290,831 1,291,354 1,296,551 1,296,631 1,297,264 1,297,286 1,298,724 1,307,826 1,315,586 1,320,839 1,295,272 1,299,111 1,304,187 1,306,326 1,308,054 1,324,393 1,325,696 1,297,795 1,290,669 1,315,044 1,319,821 1,291,126 1,292,662 1,294,361 1,302,435 1,308,632 1,298,773 1,308,784 1,290,798 1,291,762 1,293,359 1,295,968 1,295,970 1,296,736 1,299,122 1,299,123 1,301,247 1,302,898 1,303,474 1,303,976 1,305,524 1,308,033 1,308,375 1,308,478 1,310,467 1,310,693 1,310,839 1,311,000 1,311,083 1,314,027 1,314,220 1,314,446	244—	21: 1,317,511 1,319,546 1,319,553 1,320,555 1,322,806 1,323,983 1,323,984 1,324,392 1,325,108 1,325,441 1,326,023 1,321,957 1,326,434 1,304,139 1,291,687 1,295,648 1,298,120 1,298,754 1,300,969 1,302,048 1,302,688 1,303,174 1,304,654 1,307,021 1,307,047 1,307,414 1,307,721 1,307,806 1,309,152 1,310,344 1,311,377 1,311,389 1,316,277 1,319,540 1,322,976 1,323,321 1,325,371 1,325,702 1,290,136 1,290,280 1,290,841 1,290,843 1,290,857 1,291,254 1,291,989 1,292,415 1,293,160 1,293,312 1,295,751 1,296,528 1,296,773 1,296,848 1,297,032 1,297,604 1,298,516 1,299,395 1,302,947 1,303,568 1,304,420 1,304,525 1,304,967 1,305,466 1,306,002 1,306,318 1,307,133 1,307,134 1,308,997 1,309,078 1,309,961 1,309,968 1,309,710 1,309,888 1,310,389 1,310,619 1,311,097 1,311,129 1,311,576 1,311,967 1,312,086 1,312,225 1,312,548 1,313,680 1,313,681 1,313,839 1,314,395 1,314,913 1,315,647 1,315,759 1,316,079 1,316,905 1,317,910 1,318,070 1,318,171 1,319,211 1,320,341 1,320,772 1,321,094 1,321,114 1,323,829 1,324,134 1,325,137 1,326,010 1,290,237	244—	30: 1,290,838 1,294,412 1,299,858 1,300,777 1,304,652 1,307,002 1,313,689 1,321,115 1,323,103 1,290,281 1,290,832 1,291,678 1,292,596 1,293,688 1,294,083 1,296,667 1,296,775 1,296,790 1,297,331 1,297,882 1,298,515 1,300,746 1,301,634 1,301,747 1,301,748 1,303,052 1,303,507 1,306,084 1,306,764 1,306,952 1,308,810 1,309,452 1,310,764 1,310,850 1,310,942 1,311,205 1,311,706 1,311,968 1,313,252 1,313,563 1,314,536 1,315,356 1,315,561 1,315,694 1,315,695 1,317,032 1,317,413 1,317,591 1,319,117 1,320,342 1,322,348 1,322,868 1,323,385 1,324,014 1,325,378 1,325,499 1,325,804 1,325,805 1,326,405 1,294,070 1,325,590 1,311,927 1,301,296 1,294,928 1,307,807 1,315,520 1,312,163 1,291,861 1,322,402 1,299,295 1,316,811 1,290,495 1,316,738 1,292,965 1,294,855 1,323,411 1,294,736 1,299,595 1,300,080 1,300,081 1,300,082 1,311,718 1,312,921 1,322,178 1,322,316 1,322,317 1,322,665 1,324,200 1,296,095 1,291,435 1,291,565 1,299,945 1,301,295 1,295,462 1,324,912 1,304,294 1,304,297 1,324,152 1,298,700 1,324,230 1,298,693 1,302,371	246—	40: 1,304,833 1,313,977 1,321,846 1,322,651 1,291,046 1,302,345 1,311,607 1,316,538 1,317,405 1,295,896 1,296,838 1,305,936 1,306,380 1,315,346 1,305,523 1,308,401 1,317,645 1,305,382 1,305,348 1,315,345 1,320,398 1,321,984 1,294,823 1,307,345 1,319,015 R. 14, 676 1,323,250 1,291,055 1,293,779 1,294,979 1,299,446 1,326,077 1,292,987 1,303,227 1,304,775 1,308,002 1,305,380 1,312,249 1,322,418 1,323,286 1,303,450 1,306,833 1,312,077 1,298,833 1,325,682 1,320,473 1,324,205 1,303,668 1,305,383 1,313,904 1,303,506 1,323,091 1,302,711 1,292,284 1,299,854 1,322,130 1,323,418 1,298,537 1,320,153 1,296,346 1,296,360 1,299,383 1,307,998 1,308,535 1,322,177 1,319,983 1,304,035 1,306,508 1,313,338 1,318,309 1,320,499 1,324,647 1,296,361 1,301,949 1,303,923 1,294,731 1,306,759 1,313,878 1,313,879 1,322,270 1,291,569 1,310,098 1,295,560 1,293,290 1,300,307 1,307,200 1,326,298 1,325,304 1,294,602 1,301,556 1,301,961 1,309,434 1,314,062 1,323,441 1,307,523 1,321,685 1,325,683 1,291,323 1,303,743 1,301,468 1,320,195 1,303,117 1,295,071 1,304,778	246—	180: 1,308,534 1,311,608 1,316,543 1,318,566 1,297,324 1,298,676 1,299,753 1,308,558 1,310,059 1,316,263 1,317,727 1,322,023 1,325,328 1,306,731 1,297,783 1,303,192 1,323,627 1,305,391 1,311,761 1,318,482 1,325,419 1,305,851 1,321,919 1,315,500 1,316,759 1,297,343 1,322,609 1,323,161 1,291,255 1,293,579 1,299,985 1,300,152 1,305,738 1,317,308 1,323,944 1,294,651 1,298,029 1,298,782 1,301,879 1,305,239 1,308,543 1,308,544 1,323,426 1,323,261 1,323,090 1,290,223 1,303,631 1,304,642 1,323,991 1,314,439 1,323,091 1,300,963 1,311,065 1,302,135 1,306,732 1,311,246 1,301,767 1,314,884 1,298,938 1,306,181 1,307,741 1,325,797 1,291,451 1,298,679 1,322,929 1,297,969 1,297,970 1,304,338 1,305,384 1,312,101 1,323,974 1,322,707 1,305,092 1,299,311 1,299,718 1,323,510 1,292,233 1,297,721 1,305,211 1,312,090 1,313,780 1,313,781 1,302,537 1,312,630 1,316,212 1,323,700 1,326,779 1,318,767 1,297,339 1,305,930 1,319,620 1,320,243 1,321,717 1,323,142 1,300,104 1,315,869 1,320,391 1,315,685 1,292,172 1,307,476 1,308,598 1,297,197	246—	301: 1,306,033 1,313,756 1,316,710 1,301,492 1,311,488 1,326,609 1,303,707 1,312,877 1,320,184 1,304,329 1,313,586 1,326,263 1,297,837 1,301,100 1,314,262 1,325,170 1,316,443 1,303,296 1,325,420 1,306,305 1,324,725 1,295,149 1,322,345 1,294,508 1,300,968 1,308,719 1,312,377 1,318,768 1,321,691 1,313,441 1,306,567 1,309,002 1,309,003 1,309,023 1,312,620 1,322,308 1,302,407 1,325,754 1,312,691 1,321,245 1,325,396 1,308,967 1,320,522 1,306,105 1,297,200 1,313,978 1,316,013 1,291,005 1,298,891 1,307,662 1,321,981 1,325,977 1,312,621 1,298,675 1,301,099 1,313,995 1,302,475 1,291,084 1,299,806 1,298,931 1,302,331 1,312,813 1,303,165 1,322,404 1,295,755 1,304,207 1,313,480 1,302,977 1,297,812 1,317,394 1,322,238 1,322,707 1,315,004 1,303,938 1,313,782 1,303,170 1,297,521 1,301,914 1,320,380 1,326,284 1,326,485 1,325,829 1,296,135 1,296,489 1,296,490 1,296,491 1,296,492 1,296,493 1,296,494 1,303,640 1,303,673 1,311,762 1,317,994 4: 1,291,268 5: 1,294,790 1,295,995 1,296,811 1,302,057 1,304,040 1,304,226 1,314,218 1,323,408 1,326,498
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Classification of patents—Continued.

247—	6: 1,305,610 1,310,578 7: 1,295,168 8: 1,291,699 1,299,280 1,302,811 1,306,142 1,313,456 1,315,550 11: 1,325,052 12: 1,294,155 1,299,042 1,311,376 1,313,329 1,314,372 1,316,218 13: R. 14,677 1,290,394 1,292,682 1,294,155 1,296,999 1,301,175 1,302,137 1,306,191 1,306,341 1,306,342 1,307,019 1,308,423 1,308,607 1,308,830 1,313,555 1,320,154 1,321,144 1,321,486 1,321,488 1,321,489 14: 1,300,213 17: 1,294,744 1,296,323 1,307,070 23: 1,297,007 1,299,213 248— 1: 1,292,421 1,318,148 1,318,660 2: 1,300,154 1,320,613 1,326,650 3: 1,290,809 1,292,533 1,299,345 1,304,787 1,307,669 1,308,630 1,318,899 1,325,860 6: 1,313,773 7: 1,303,249 1,309,360 1,315,621 8: 1,298,562 1,305,285 1,309,375 9: 1,325,759 18: 1,324,370 19: 1,297,021 1,299,234 1,321,802 1,325,143 20: 1,291,169 1,292,631 1,292,980 1,294,833 1,296,060 1,296,071 1,297,610 1,298,559 1,301,886 1,299,745 1,300,817 1,301,672 1,302,482 1,304,064 1,304,066 1,308,599 1,308,456 1,310,323 1,311,966 1,312,295 1,314,120 1,315,852 1,317,995 1,319,393 1,321,156 1,321,951 1,322,831 1,322,925 1,323,599 1,324,713 1,326,749 21: 1,324,895 22: 1,292,956 1,305,560	248— 22: 1,308,066 1,313,808 1,316,209 1,322,167 1,325,202 24: 1,292,779 1,303,409 1,313,807 28: 1,297,483 29: 1,306,676 1,323,535 30: 1,290,773 1,292,368 1,292,841 1,293,222 1,293,409 1,293,448 1,293,670 1,294,854 1,297,435 1,304,059 1,304,762 1,306,272 1,307,011 1,307,685 1,309,899 1,311,908 1,313,195 1,313,446 1,315,244 1,315,492 1,316,200 1,317,027 31: 1,290,655 1,291,079 1,315,225 1,315,890 1,322,414 1,320,544 1,303,345 1,303,346 1,303,347 1,319,652 33: 1,301,496 1,308,969 1,308,978 1,308,979 34: 1,316,255 36: 1,291,872 1,292,034 1,308,869 1,313,113 1,313,191 1,318,503 37: 1,296,049 1,296,072 1,300,352 1,312,947 1,317,590 1,317,903 1,319,334 1,321,842 1,325,807 1,325,973 38: 1,296,866 1,298,380 1,319,009 1,319,481 39: 1,298,139 41: 1,292,470 1,300,635 1,302,695 1,305,201 1,306,754 1,309,776 1,310,638 1,310,952 1,312,791 42: 1,303,555 43: 1,295,345 1,300,412 1,311,918 1,312,000 1,324,605 1,324,781 44: 1,319,397 46: 1,325,886 47: 1,293,553 1,300,805 1,306,057 1,324,934 49: 1,309,599 1,318,539 50: 1,290,433 1,292,947 1,297,609 1,308,074 1,312,178	248— 50: 1,313,515 52: 1,311,094 1,311,628 57: 1,299,296 58: 1,295,377 1,301,536 1,312,150 1,313,340 1,323,185 59: 1,319,997 63: 1,291,349 1,298,041 1,304,639 1,306,933 1,310,089 1,318,428 1,323,996 64: 1,322,328 32: 1,312,832 46: 1,319,105 249— 1: 1,292,122 1,292,123 1,307,155 1,309,031 1,309,366 1,320,610 2: 1,308,925 1,318,342 1,326,727 4: 1,315,197 6: 1,298,613 1,301,525 1,304,188 1,309,459 1,311,264 1,313,041 1,313,112 1,313,860 1,314,251 1,316,995 1,320,890 1,320,685 1,323,759 1,325,574 5: 1,294,983 1,301,246 1,306,170 1,313,093 1,314,102 1,314,253 1,320,525 9: 1,309,538 1,313,042 11: 1,296,177 1,297,313 1,301,473 1,301,644 1,303,625 1,322,101 13: 1,306,208 15: 1,314,593 16: 1,324,792 17: R. 14,760 1,296,504 1,304,868 1,308,530 1,309,778 1,317,400 1,319,068 1,320,959 1,323,155 1,325,250 19: 1,300,156 1,300,157 1,301,279 1,303,184 1,306,223 1,309,283 1,310,041 1,314,789 1,316,172 1,318,855 20: 1,291,527 1,306,474 1,309,400 1,311,654 1,313,070 1,313,654 1,315,584 1,317,435 1,319,989 1,319,990 1,322,566 27: 1,290,438 1,291,379 1,291,441 1,291,641 1,294,694 1,297,309 1,299,356 1,303,579 1,304,282 1,307,510	250— 27: 1,309,704 1,313,187 1,325,865 30: 1,294,177 31: 1,290,755 1,318,277 1,319,804 33: 1,295,245 1,303,729 1,303,730 1,305,104 1,306,145 1,314,095 1,315,862 1,316,188 1,317,025 1,322,622 34: 1,290,806 1,293,323 1,303,273 1,303,274 1,307,385 1,307,386 1,321,465 35: 1,295,481 1,310,061 1,310,714 1,323,836 1,326,029 36: 1,294,326 1,295,200 1,302,391 1,313,188 1,314,252 1,321,432 1,321,436 1,321,437 1,321,438 1,322,315 1,323,354 1,323,472 37: 1,299,823 1,302,129 1,304,296 1,312,972 1,320,300 38: 1,298,490 1,305,816 1,314,152 1,316,916 1,322,610 1,324,022 39: 1,305,202 40: 1,291,121 1,290,382 1,292,589 1,298,396 1,303,325 1,307,507 1,307,716 1,307,841 1,312,983 1,315,968 251— 0.5: 1,297,456 3: 1,290,271 4: 1,291,843 1,296,746 1,323,526 6: 1,294,328 1,294,480 1,300,120 1,303,878 1,304,506 1,305,519 1,308,154 1,309,154 1,310,362 1,311,863 1,314,900 1,315,054 1,320,967 1,325,189 10: 1,302,534 11: 1,296,922 1,301,054 1,301,340 1,301,455 1,302,891 16: 1,312,839 18: R. 14,687 1,299,452 1,324,351 1,324,990 19: 1,304,113 20: 1,308,262 21: 1,320,284 23: 1,301,549 27: 1,317,563 31: 1,301,948 32: 1,302,990 35: 1,299,571 1,319,116 40: 1,322,012	251— 41: 1,302,385 43: 1,305,182 1,307,915 44: 1,296,897 1,311,832 1,320,446 1,326,430 45: 1,293,476 46: 1,296,257 1,300,918 1,301,278 1,315,018 47: 1,293,840 1,316,585 48: 1,291,183 1,300,785 1,307,287 1,322,035 1,324,196 49: 1,305,539 1,325,846 51: 1,308,842 1,311,436 52: 1,314,559 53: 1,320,472 56: 1,297,446 1,298,936 1,311,332 1,325,496 57: 1,301,030 62: 1,300,200 1,323,941 67: 1,314,609 68: 1,304,228 73: 1,310,094 75: 1,320,944 77: 1,304,409 1,308,118 1,311,585 78: 1,304,724 1,307,986 82: 1,299,130 1,312,102 84: 1,290,558 1,294,340 89: 1,291,834 1,315,681 90: 1,315,741 91: 1,324,817 92: 1,306,006 93: 1,322,721 94: 1,303,996 95: 1,295,503 1,310,980 96: 1,306,276 98: 1,316,302 100: 1,322,197 106: 1,313,105 107: 1,302,752 108: 1,291,566 1,295,999 1,317,346 109: 1,291,986 1,306,210 1,319,755 110: 1,320,627 1,324,984 112: 1,319,350 113: 1,309,018 119: 1,299,815 1,302,084 1,316,184 1,319,787 1,324,137 121: 1,318,521 123: 1,312,711 1,325,568 125: 1,304,519 1,306,391 126: 1,309,974 1,324,515 1,326,459 127: 1,294,416 1,306,576 1,322,938 133: 1,321,835 134: 1,305,023 1,314,195 1,316,906 1,322,076 137: 1,291,799 1,301,577 1,317,047 139: 1,311,830 1,322,200 1,322,201 141: 1,294,692 144: 1,291,064 1,291,292 1,297,312 1,303,972 1,305,868	251— 144: 1,308,145 145: 1,291,767 1,293,284 1,298,985 1,300,935 1,303,817 1,304,374 1,311,115 1,316,727 1,322,600 147: 1,303,762 151: 1,297,229 1,314,340 154: 1,307,849 155: 1,302,567 1,323,874 1,298,173 156: 1,311,364 1,315,438 1,317,789 1,322,197 1,324,385 158: 1,299,428 1,311,954 1,313,858 159: 1,299,480 161: 1,295,394 162: 1,323,328 165: 1,303,150 166: 1,325,334 167: 1,303,035 1,315,828 1,316,539 1,318,001 168: 1,313,122 R. 14,773 1,293,684 1,295,283 1,297,028 1,297,724 1,303,545 1,315,889 1,317,658 1,318,902 1,319,178 1,321,061 1,325,665 1,325,667 252— 1: 1,324,074 2: 1,313,842 3: 1,304,278 8: 1,315,629 10: 1,314,360 11: 1,292,303 1,307,095 12: 1,314,401 14: 1,322,030 16.5: 1,323,182 17: 1,315,232 18: 1,300,866 24: 1,307,703 35: 1,314,039 38: 1,294,910 1,311,193 39: 1,302,283 1,318,091 1,318,307 1,325,208 1,326,651 1,326,867 1,326,868 1,326,869 1,326,870 1,326,871 51: 1,319,812 1,323,542 52: 1,311,878 54: 1,322,856 59: 1,302,060 1,307,111 65: 1,310,673 1,310,674 1,310,678 66: 1,315,263 1,318,035 67: 1,298,206 69: 1,294,245 1,297,878 1,300,287 1,302,282 1,304,191 1,322,221 1,322,222 70: 1,310,022 1,311,547 1,315,153 1,316,974 74: 1,310,680 1,320,629 77: 1,290,533
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253—	77: 1,301,705 1,303,004 1,304,793 1,309,816 1,310,864 1,313,152 1,314,806 1,317,707 78: 1,298,524 1,298,564 1,304,412 1,310,675 1,310,676 1,310,677 1,310,681 1,325,135 86: 1,292,038 91: 1,319,323 94: 1,313,648 1,313,649 114: 1,309,810 120: 1,309,809 136: 1,294,050 1,295,354 1,296,622 1,306,487 1,304,972 141: 1,304,972 163: 1,306,222 179: 1,290,521 1,321,538 182: 1,292,626 1,314,647 1,316,139 188: 1,295,981 1,307,115 1,309,282 1,312,979 1,324,664 194: 1,308,108 198: 1,320,736 199: 1,291,407 1,301,597 1,304,068 1,305,290 1,317,096 200: 1,291,037 1,323,412 1,323,533 201: 1,299,840 1,323,793 254— 1: 1,293,026 1,320,478 2: 1,295,698 1,297,923 1,306,417 1,307,687 1,310,036 4: 1,322,941 5: 1,291,546 1,303,318 1,303,601 6: 1,297,290 1,307,080 7: 1,304,680 1,311,165 8: 1,303,691 1,308,750 1,320,706 1,322,299 9: 1,325,863 10: 1,291,146 1,325,222 11: R. 14, 605 1,299,822 12: 1,313,664 13: 1,310,637 18: 1,317,156 21: 1,300,952 23: 1,302,134 1,305,083 24: 1,297,870 1,318,826 25: 1,313,758 1,326,758 26: 1,314,247 1,317,048 27: 1,311,948 28: 1,309,846 29: 1,309,634 1,316,753 30: 1,326,426 1,305,184 1,312,009 31: 1,301,769 1,304,669 36: 1,324,329 37: 1,323,601 38: 1,295,973 1,311,803 41: 1,307,140 42: 1,324,773 43: 1,290,288 1,324,199	254— 44: 1,308,310 45: 1,290,694 1,308,764 51: 1,299,113 1,313,669 1,325,090 52: 1,324,575 65: 1,299,998 1,302,003 1,307,578 1,313,545 66: 1,324,090 67: 1,294,699 1,295,357 1,303,067 1,304,806 1,316,294 1,318,408 69: 1,305,779 71: 1,303,915 1,316,126 1,319,126 72: 1,298,895 1,304,830 1,311,787 1,313,339 73: 1,293,493 77: 1,297,283 1,311,390 1,322,060 78: 1,294,206 79: 1,305,899 80: 1,325,942 81: 1,311,475 1,317,145 82: 1,307,650 83: 1,321,818 84: 1,292,622 1,300,129 85: 1,316,879 86: 1,297,334 1,303,240 1,303,922 1,313,087 1,322,948 1,322,949 1,323,997 1,325,600 87: 1,303,554 88: 1,290,916 1,297,916 1,305,024 1,315,335 1,319,934 1,320,538 1,325,968 89: 1,299,730 1,311,015 91: 1,307,859 92: 1,291,734 1,321,604 93: 1,291,918 1,322,397 94: 1,322,360 95: 1,305,455 1,325,951 1,325,962 97: 1,304,358 1,317,878 1,324,721 98: 1,298,316 1,304,460 1,318,801 100: 1,298,970 1,305,805 1,311,901 1,314,557 1,325,414 102: 1,325,484 103: 1,295,468 1,295,469 1,298,959 1,321,456 1,321,823 1,324,058 1,324,851 105: 1,325,963 106: 1,307,653 1,315,929 108: 1,295,358 110: 1,312,568 1,320,402 111: 1,300,067 1,304,569 1,307,360 1,307,968 1,309,962 1,316,575 1,320,244 1,320,245 1,325,964 112: 1,293,904 1,304,515	254— 112: 1,323,760 114: 1,315,905 116: 1,324,394 121: 1,297,453 122: 1,326,451 123: 1,297,874 126: 1,299,781 1,303,060 127: 1,317,857 1,314,357 129: 1,317,857 131: 1,309,734 1,319,335 1,311,029 1,311,836 1,314,451 132: 1,295,547 1,299,915 1,321,316 1,307,291 133: 1,292,823 1,306,324 1,321,950 1,326,670 135: 1,291,138 1,293,920 1,311,108 141: 1,296,422 142: 1,310,598 148: 1,314,325 150: 1,300,953 1,312,079 157: 1,296,052 1,308,480 161: 1,318,078 1,324,112 162: 1,304,006 1,323,771 164: 1,303,698 1,321,939 166: 1,290,232 1,296,434 1,296,615 1,297,057 1,299,294 1,301,743 1,303,920 1,308,874 1,315,138 1,316,063 1,318,139 1,323,395 1,323,602 1,324,232 172: 1,313,719 1,319,601 1,320,023 173: 1,305,006 176: 1,320,856 1,323,298 178: 1,296,814 180: 1,297,817 184: 1,302,051 1,315,124 185: 1,291,261 1,307,954 1,324,703 186: 1,292,420 1,300,350 1,301,186 1,307,389 1,316,290 1,320,636 187: 1,315,429 1,318,568 190: 1,297,782 1,307,989 1,308,667 1,324,948 194: 1,292,545 1,290,172 1,313,367 4: 1,300,988 1,300,989 1,307,847 1,315,422 12: 1,301,915 15: 1,317,101 19: 1,294,098 1,295,574 1,312,565 1,321,770 20: 1,295,320 1,299,803 1,310,274 21: 1,294,154 22: 1,295,575 1,315,565 1,316,497 1,317,875 1,319,259 1,297,625	255— 23: 1,298,619 24: 1,295,969 1,317,350 1,324,304 25: 1,296,573 27: 1,301,764 1,318,225 28: 1,304,364 34: 1,325,901 35: 1,300,995 1,309,973 1,311,385 1,319,335 1,322,809 1,324,243 36: 1,295,700 1,305,353 41: 1,296,618 1,317,600 42: 1,314,811 1,316,609 1,317,194 1,319,975 46: 1,294,019 1,297,215 1,311,396 1,318,466 49: 1,290,196 1,326,825 51: 1,304,442 1,304,623 1,321,565 52: 1,303,790 60: 1,302,127 61: 1,290,412 1,292,608 1,292,842 1,295,134 1,300,346 1,301,121 1,326,506 1,326,507 63: 1,296,078 1,318,958 1,321,272 1,324,631 64: 1,301,912 66: 1,306,807 67: 1,298,509 1,305,792 69: 1,312,732 1,316,435 1,318,940 71: 1,294,106 1,302,967 1,305,488 1,305,489 1,306,674 1,306,694 1,316,094 1,320,384 1,295,142 1,290,394 1,322,540 1,322,696 1,325,086 1,325,944 72: 1,297,708 1,297,889 1,301,395 1,301,541 1,315,249 73: 1,302,058 74: 1,317,192 75: 1,290,340 1,304,167 1,311,022 1,320,226 1,322,337 1,326,509 76: 1,318,207 1,323,905 1,325,148 1,326,327 7: 1,294,677 1,319,290 14: 1,314,910 1,326,622 16: 1,298,527 18: 1,294,659 1,299,462 1,320,217 19: 1,293,138 22: 1,312,242 24: 1,293,335 1,316,893 31: 1,293,827 1,309,956 32: 1,319,887 48: 1,293,106 49: 1,319,326 1,320,253	256— 50: 1,303,894 52: 1,297,169 1,322,144 53: 1,305,798 58: 1,290,416 1,315,220 65: 1,316,155 73: 1,298,072 257— 1: 1,324,443 2: 1,311,391 8: 1,315,766 11: 1,307,728 1,310,017 16: 1,308,486 21: 1,290,772 1,310,665 22: 1,305,408 24: 1,302,256 1,302,257 1,309,514 1,312,512 1,313,199 32: R. 14, 678 34: 1,323,812 1,323,813 35: 1,303,107 37: 1,323,013 42: 1,317,390 43: 1,311,239 45: 1,291,893 51: 1,312,416 79: 1,319,916 86: 1,303,470 88: 1,324,157 96: 1,311,431 98: 1,303,139 111: 1,305,833 125: 1,292,576 1,293,273 1,310,251 1,311,599 1,313,492 1,313,652 1,314,788 1,317,200 1,319,509 1,321,052 1,321,813 127: 1,306,976 128: 1,296,058 1,296,785 1,297,454 1,298,192 1,299,158 1,321,515 1,323,587 129: 1,311,549 1,316,425 1,320,755 130: 1,294,435 1,295,142 1,295,518 1,301,608 1,301,984 1,302,111 1,302,627 1,310,416 1,313,077 1,314,048 1,314,263 1,315,249 1,316,199 1,316,858 1,318,012 1,319,285 1,325,215 132: 1,291,038 1,291,807 1,292,955 1,295,629 1,298,094 1,298,095 1,304,089 1,308,056 1,310,870 1,326,167 133: 1,301,589 134: 1,298,186 135: 1,320,187 136: R. 14, 749 1,291,466 1,295,562 1,296,394 1,300,017 1,301,261 1,302,208 1,303,384 1,306,581 1,309,216 137: 1,295,151 1,309,977 138: 1,305,532	257— 139: 1,314,064 140: 1,313,212 145: 1,302,201 150: 1,291,632 1,312,045 151: 1,292,291 1,313,518 158: 1,290,139 165: 1,319,621 166: 1,292,615 1,300,416 1,326,534 167: 1,325,276 179: 1,321,106 180: 1,301,775 191: 1,320,651 R. 14, 784 198: 1,324,380 199: 1,302,625 200: 1,304,379 203: 1,298,925 207: 1,292,365 1,306,837 208: 1,308,357 1,311,049 228: 1,326,277 229: 1,311,702 230: 1,326,267 232: 1,299,793 236: 1,290,112 240: 1,311,336 1,325,429 241: 1,290,120 1,290,953 1,291,564 1,293,413 1,296,972 1,298,835 1,299,648 1,300,395 1,300,630 1,301,262 1,301,312 1,303,559 1,305,003 1,305,170 1,306,898 1,307,393 1,308,135 1,310,412 1,311,206 1,313,639 1,314,091 1,314,386 1,315,730 1,316,629 1,317,248 1,317,379 1,317,966 1,319,628 1,319,831 1,322,429 1,323,378 1,325,850 242: 1,297,292 243: 1,298,906 245: 1,325,637 248: 1,304,091 250: 1,297,447 252: 1,323,446 255: 1,309,025 256: 1,296,652 1,296,916 1,313,730 1,318,875 1,322,897 257: 1,291,431 2: 1,300,911 1,305,994 1,312,652 3: 1,309,080 6: 1,319,903 15: 1,321,327 17: 1,312,059 19: 1,292,502 1,297,060 1,299,887 1,326,449 20: 1,300,005 21: 1,291,404 22: 1,297,079 1,310,065 23: 1,301,682 1,302,562 26: 1,302,561 1,306,506 1,308,261 259— 1: 1,322,618 8: 1,309,175 23: 1,318,654 24: 1,298,897 35: 1,325,190 48: 1,292,643
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1,292,563 1,297,572 1,297,573 1,291,483 1,302,347 1,305,036 1,306,031 1,306,144 1,309,178 1,309,719 1,310,426 1,311,307 1,312,749 1,313,332 1,316,706 1,319,158 1,319,789 1,322,560 R. 14, 780 1,323,786 1,323,919 1,324,135 1,326,170 44: R. 14, 643 R. 14, 658	261—	44: 1,293,348 1,305,744 1,321,471 1,325,126 1,325,688 45: 1,290,508 1,304,715 1,307,107 1,308,595 46: 1,296,454 48: 1,317,011 49: 1,299,622 1,325,689 50: 1,294,182 1,308,595 1,312,469 51: 1,310,432 1,312,468 1,324,510 52: 1,290,028 1,323,096 54: 1,291,040 62: 1,290,109 1,290,208 1,300,517 1,305,272 1,317,967 63: 1,307,665 64: 1,295,090 1,299,454 66: 1,303,761 1,304,988 70: 1,314,148 71: 1,290,029 75: 1,291,833 1,292,742 76: 1,306,273 1,311,627 77: 1,295,536 1,316,602 78: 1,290,246 1,296,853 1,299,059 79: 1,310,633 1,314,020 1,316,149 80: 1,307,656 87: 1,308,587 1,312,588 89: 1,319,667 1,292,125 1,308,338 1,318,774 92: 1,296,315 1,302,281 1,309,737 1,311,224 94: 1,298,445 1,303,187 1,315,191 95: 1,293,270 1,307,635 96: 1,326,174 97: 1,309,254 99: 1,290,783 1,320,407 100: 1,296,190 1,301,610 103: 1,290,585 1,309,953 104: 1,319,316 106: 1,316,144 107: 1,312,948 108: 1,312,929 1,312,930 1,323,666 111: 1,314,802 1,320,852 113: 1,309,803 1,319,647 114: 1,320,130 116: 1,291,840 1,312,898 118: 1,297,596 1,302,913 1,313,971 119: 1,305,926 120: 1,305,943 1,305,944 121: 1,316,545 122: 1,291,554 124: 1,299,817 1,317,463 1,322,597 262— 1: 1,308,583 1,319,156 1,325,263 1,325,610 2: 1,315,228 1,315,385 3: 1,293,902 1,308,929 1,324,301 5: 1,295,173	262—	5: 1,314,011 7: 1,311,142 1,311,143 1,317,586 1,320,144 1,326,480 8: 1,298,304 1,303,303 1,308,639 9: 1,290,591 1,315,271 1,321,427 1,322,113 1,325,031 12: 1,304,352 16: 1,304,524 18: 1,310,248 20: 1,292,040 1,292,041 1,296,225 1,302,917 1,306,047 1,307,524 1,322,411 1,323,183 25: 1,321,840 26: 1,313,993 27: 1,309,477 28: 1,313,869 29: 1,290,592 1,290,593 1,290,595 1,299,905 1,303,797 1,317,812 1,321,290 30: 1,292,543 1,295,536 1,322,819 33: 1,307,525 1,320,552 1,325,028 1,325,029 1,325,030 2: 1,318,969 1,321,098 3: 1,302,843 1,315,835 4: 1,326,492 5: 1,293,917 1,300,091 1,304,596 1,307,780 1,316,993 1,320,344 1,324,273 6: 1,291,717 1,292,462 1,300,347 1,311,962 1,319,741 7: 1,305,991 8: 1,307,744 9: 1,298,813 1,325,827 10: 1,320,134 11: 1,298,692 13: 1,312,129 14: 1,308,190 15: 1,308,987 1,322,756 16: 1,322,026 18: 1,295,796 19: 1,305,176 1,316,086 1,319,985 1,322,208 20: 1,298,883 21: 1,295,729 1,326,125 23: 1,299,661 1,305,441 24: 1,308,241 25: 1,303,114 26: 1,296,834 1,322,223 28: 1,291,716 1,297,629 1,322,652 29: 1,307,974 1,317,603 1,325,674 30: 1,319,939 32: 1,317,686 1,319,700 33: 1,292,927 1,292,928 1,294,547 1,295,719 1,295,780 1,314,348 34: 1,298,229	263—	34: 1,314,849 1,318,141 1,320,614 36: 1,290,242 1,310,911 1,318,948 37: 1,295,637 38: 1,291,643 1,322,214 42: 1,290,383 43: 1,296,122 1,305,034 1,308,743 1,312,927 44: 1,316,085 45: 1,296,189 1,303,225 1,309,149 49: 1,305,605 1,306,601 1,321,043 50: 1,320,386 1,320,387 264— 1: 1,298,494 1,308,557 2: 1,310,738 3: 1,293,765 1,295,199 1,295,200 1,304,672 1,305,387 1,324,198 1,325,478 4: 1,304,348 7: 1,312,232 1,317,955 13: 1,309,390 1,312,081 1,312,082 1,312,083 14: 1,314,364 15: 1,309,924 1,313,175 1,319,204 16: 1,298,497 17: 1,296,138 18: 1,305,882 20: 1,290,704 1,293,018 1,294,114 265— 1: 1,290,310 1,290,318 1,297,686 1,306,891 1,312,805 1,316,281 1,317,072 1,322,123 1,323,818 5: 1,310,540 6: 1,290,821 7: 1,302,085 8: 1,313,062 1,315,769 11: 1,292,276 1,321,736 12: 1,294,171 1,307,091 13: 1,293,189 1,303,948 14: 1,320,748 15: 1,298,138 16: 1,307,775 1,307,776 17: 1,291,050 19: 1,307,468 1,324,470 27: 1,306,187 1,321,726 28: 1,298,302 1,318,511 32: 1,320,853 33: 1,294,089 36: 1,291,890 1,294,382 1,313,614 1,321,595 1,324,151 1,324,574 37: 1,290,415 1,296,710 1,301,460 1,316,576 39: R. 14, 727 1,314,631 40: 1,294,298 41: 1,322,710 43: 1,317,104 44: 1,298,810 45: 1,291,147 1,296,694 1,301,516	265—	45: 1,304,115 1,308,223 49: 1,295,967 1,307,585 1,307,818 1,309,602 1,310,747 1,317,135 1,318,595 54: 1,301,765 1,323,387 1,316,890 1,317,057 56: 1,294,408 1,322,877 60: 1,295,258 62: 1,290,278 1,291,246 1,299,224 1,305,640 1,305,992 1,318,559 63: 1,306,045 1,306,066 1,323,831 66: 1,317,147 68: 1,303,786 1,305,780 1,322,169 1,323,037 69: 1,300,141 1,309,436 70: 1,312,132 1,316,271 71: 1,296,274 1,322,884 1,313,577 1,314,423 1,325,188 266— 2: 1,304,258 3: 1,299,949 1,302,337 4: 1,290,384 1,290,561 1,292,617 1,295,986 1,303,429 1,312,928 1,322,750 5: 1,295,150 6: 1,298,682 1,303,657 1,304,947 1,308,077 1,321,391 9: 1,322,516 10: 1,290,268 1,314,150 14: 1,303,155 15: 1,295,586 1,303,914 1,317,920 16: 1,301,374 1,316,267 19: 1,295,573 1,311,604 20: 1,315,460 21: 1,299,892 1,308,864 1,315,910 23: 1,291,735 1,317,425 1,318,725 1,320,687 1,324,005 1,324,006 1,324,007 24: 1,332,307 1,317,235 26: 1,293,839 1,309,465 1,309,466 27: 1,309,851 1,311,807 29: 1,317,553 30: 1,298,761 1,311,711 1,320,158 31: 1,307,884 36: 1,299,034 1,318,906 37: 1,310,998 41: 1,292,162 42: 1,303,755 43: 1,308,481 1,310,230 267— 1: 1,325,092 2: 1,292,155 1,297,014 1,303,630 1,303,950 1,304,818 1,307,311	267—	2: 1,307,955 1,318,052 1,319,937 1,325,121 3: 1,290,320 1,292,539 1,309,490 1,311,629 1,326,850 4: 1,297,489 1,304,982 5: 1,290,081 1,292,939 8: 1,290,293 1,291,908 1,292,331 1,298,243 1,308,171 1,310,886 1,312,284 1,318,947 1,314,784 1,316,500 9: 1,304,950 1,319,848 1,319,938 1,323,207 1,324,552 1,324,913 10: 1,308,601 1,326,288 11: 1,290,315 13: 1,294,655 1,317,788 16: 1,300,472 1,322,021 1,323,840 17: 1,303,343 19: 1,291,331 1,291,514 1,293,166 1,294,353 1,296,375 1,297,253 1,297,799 1,301,003 1,300,658 1,300,755 1,300,783 1,303,816 1,305,004 1,306,558 1,306,926 1,307,759 1,311,913 1,313,643 1,314,904 1,315,664 1,316,029 1,316,483 1,318,361 1,319,736 1,320,157 1,323,491 1,323,820 1,325,489 1,326,257 22: 1,300,727 27: 1,291,356 1,291,357 1,291,653 1,292,166 1,293,425 1,294,338 1,295,954 1,296,294 1,297,167 1,298,069 1,298,168 1,298,748 1,307,596 1,307,605 1,307,835 1,311,061 1,314,282 1,315,052 1,318,018 1,318,042 1,319,873 1,323,839 1,325,604 1,326,107 1,326,467 28: 1,304,366 1,307,657 1,319,349 32: 1,311,531 33: 1,290,864 1,307,464 1,310,193 1,312,130 1,312,140
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## Classification of patents—Continued.

267—	33: 1,313,183 1,314,021 1,314,248 1,314,979 1,317,778 1,319,214 1,319,270 1,321,986 1,322,440 1,323,856 1,324,440 1,325,431 33.5: 1,317,622 34: 1,292,611 1,314,817 1,316,017 1,316,226 35: 1,303,557 1,321,798 37: 1,296,778 1,311,751 1,314,698 1,317,719 1,323,453 1,323,561 1,326,757 40: 1,302,556 1,309,198 42: 1,314,982 1,319,244 1,319,885 1,325,832 43: 1,301,016 1,309,759 46: 1,302,079 49: 1,291,016 1,301,474 50: 1,305,065 1,319,783 52: 1,295,059 1,317,330 1,318,191 1,319,967 1,320,696 1,322,049 1,322,063 1,322,064 1,323,712 1,323,935 1,324,539 57: 1,315,552 335: 1,306,883 268— 1: 1,323,529 1,324,106 2: 1,294,763 1,311,317 1,314,510 4: 1,290,451 1,300,926 1,304,825 1,306,702 1,310,367 1,311,168 1,315,447 1,317,031 1,317,150 6: 1,291,847 1,297,702 1,299,420 1,301,445 1,309,373 1,312,180 7: 1,291,910 1,301,736 8: 1,292,077 1,294,169 1,299,830 1,314,207 1,315,308 1,322,704 1,324,587 1,290,718 9: 1,300,267 1,301,484 1,303,880 1,305,982 1,307,348 1,315,053 1,318,349 1,321,887 1,326,130 1,326,286 12: 1,319,396 13: 1,297,479 1,314,023 1,323,848 15: 1,297,195 1,308,287 17: 1,298,336 1,306,291 1,306,292 18: 1,306,868	268— 21: 1,297,860 1,305,614 22: 1,292,706 25: 1,324,667 269— 1: 1,317,452 5: 1,294,152 4: 1,302,666 1,305,128 1,310,506 1,311,138 1,312,487 13: 1,305,568 18: 1,300,295 30: 1,321,834 31: 1,308,766 1,316,692 1,325,224 34: 1,308,631 37: 1,291,720 38: 1,305,989 39: 1,290,800 1,290,801 1,302,240 1,302,241 41: 1,312,458 45: 1,326,859 47: 1,299,656 1,321,581 48: 1,325,974 1,325,975 1,325,976 50: 1,304,232 52: 1,305,988 53: 1,294,842 55: 1,294,559 60: 1,306,399 1,311,886 1,318,043 68: 1,297,181 77: 1,302,894 1,318,337 81: 1,313,713 83: 1,301,591 85: 1,307,148 86: 1,293,357 1,305,129 1,305,748 1,313,712 87: 1,291,075 88: 1,305,253 1: 1,326,194 3: 1,313,474 4: 1,310,434 1,325,576 4.4: 1,295,773 8: 1,300,445 1,310,618 10: 1,304,050 14: 1,319,716 20: 1,321,659 27: 1,296,690 1,304,262 28: 1,292,641 1,301,799 1,303,592 1,315,739 29: 1,291,456 1,298,485 1,312,539 1,312,540 30: 1,306,024 1,316,430 32: 1,318,540 1,325,720 36: 1,299,249 37: 1,297,707 38: 1,301,543 1,305,399 39: 1,293,260 41: 1,291,074 1,291,455 1,314,359 1,325,410 43: 1,298,685 44: 1,292,377 1,298,389 1,300,084 45: 1,297,443 1,299,386 46: 1,298,348 48: 1,312,865 49: 1,290,510 50: 1,305,741 1,321,573 52: 1,300,235 1,321,807 1,324,251 53: 1,299,920 1,300,561 1,300,562 1,300,563 1,305,431	271— 53: 1,367,969 1,317,391 55: 1,307,171 59: 1,290,390 1,320,203 61: 1,300,407 1,300,409 62: 1,298,684 1,326,334 63: 1,309,544 64: 1,291,999 1,302,466 1,309,701 65: 1,292,002 67: 1,291,665 68: 1,305,501 69: 1,291,998 1,292,001 76: 1,293,852 1,316,703 1,318,675 1,325,209 79: 1,292,000 80: 1,307,681 1,325,550 82: 1,305,326 1,306,088 83: 1,324,437 84: 1,319,856 87: 1,292,642 1,301,346 1,313,573 1,317,979 88: 1,303,041 89: 1,303,040 272— 1,295,098 1,304,732 1,325,519 179: 1,313,688 273— 1,292,866 1,306,131 1,297,587 1,304,630 1,305,342 1,305,343 1,308,354 1,317,383 1,321,228 1,325,760 274— 1: 1,292,349 1,296,779 1,303,900 1,303,927 1,317,630 1,318,154 2: 1,293,489 1,298,406 1,302,900 1,304,158 1,306,182 1,318,193 1,323,316 1,323,777 1,324,311 1,326,709 1,326,729 1,326,771 10: 1,291,027 1,291,556 1,299,853 1,302,217 1,306,293 1,312,250 1,312,461 1,320,035 1,321,852 11: 1,308,065 13: 1,291,515 14: 1,291,985 15: 1,293,336 1,293,537 1,294,850 1,295,460 1,300,135 1,301,786 1,301,787 1,306,241 1,317,257 1,317,258 1,317,259 1,318,104 1,320,732 1,322,286 1,325,111 17: 1,293,602 1,297,466 18: 1,304,246 1,317,127 1,323,579 1,326,473 23: 1,291,398 1,294,945 1,301,458 1,302,478	274— 23: 1,304,404 1,313,342 1,318,153 1,321,178 1,321,559 1,322,890 1,324,306 24: 1,291,239 1,303,502 1,308,358 1,311,057 1,321,193 1,323,726 1,324,643 25: 1,308,450 1,311,300 1,312,957 1,314,127 1,316,703 1,318,675 1,325,209 26: 1,302,433 1,312,959 1,323,317 27: 1,293,797 1,302,140 1,307,664 1,313,720 1,316,536 1,316,537 1,325,273 28: 1,296,833 1,318,083 35: 1,291,238 1,291,887 1,296,975 1,301,631 1,302,479 1,306,131 1,307,236 1,309,766 1,310,753 1,310,946 1,312,958 1,315,117 1,321,177 1,321,476 1,322,997 1,323,429 36: 1,304,513 37: 1,290,295 1,292,575 1,292,576 1,316,533 1,322,282 38: 1,312,848 1,312,849 1,317,671 39: 1,298,019 40: 1,291,516 41: 1,316,894 42: 1,303,074 1,303,127 1,303,842 1,307,020 1,308,020 1,320,639 45: 1,290,044 1,326,572 46: 1,299,153 2: 1,293,281 1,304,321 1,322,705 3: 1,291,436 1,300,791 R. 14, 715 1,313,637 1,313,638 1,315,618 1,321,152 1,324,540 1,325,287 1,326,163 5: 1,313,427 1,313,735 6: 1,313,595 8: 1,305,500 9: 1,291,995 1,296,255 1,312,214 14: 1,314,546 15: 1,312,226 2: 1,321,329 3: 1,301,146 7: 1,306,323 19: 1,300,089 20: 1,291,900 43: 1,301,952 1,311,656 277— 1: 1,313,478 5: 1,307,004 7: 1,301,385	277— 7: 1,308,112 9: 1,294,461 1,319,006 10: 1,309,295 12: 1,305,715 1,317,114 13: 1,312,231 18: 1,293,003 1,306,867 1,321,238 1,325,945 1,326,247 19: 1,292,464 1,317,762 20: 1,290,790 1,296,410 1,297,193 1,298,227 29: 1,324,110 32: 1,310,954 1,313,590 35: 1,315,020 36: 1,300,280 1,315,387 44: 1,319,437 46: 1,305,997 51: 1,291,939 57: 1,310,338 60: 1,297,286 1,320,433 1,324,284 61: 1,323,044 65: 1,311,642 66: 1,299,904 69: 1,307,194 1,316,986 71: 1,296,657 1: 1,292,735 1,295,412 1,302,619 2: 1,320,361 1,320,660 4: 1,295,994 1,311,665 7: 1,326,075 9: 1,320,162 16: 1,308,681 1,311,960 1,322,474 18: 1,317,008 22: 1,311,961 29: 1,307,937 39: 1,294,135 43: 1,320,181 49: 1,320,113 56: 1,291,640 1,306,354 1,326,654 60: 1,321,969 63: 1,304,658 1,304,659 1,310,409 64: 1,318,090 69: 1,312,628 71: 1,292,747 74: 1,305,257 76: 1,298,196 77: 1,312,298 79: 1,292,344 90: 1,301,287 91: 1,306,956 93: 1,294,304 1,301,802 96: 1,302,323 1,317,455 R. 14, 664 103: 1,296,133 1,304,473 107: 1,308,176 110: 1,290,885 112: 1,314,126 1,315,467 1,325,915 115: 1,321,739 121: 1,305,138 280— 1: 1,319,260 5: 1,316,949 1,321,857 1,324,548 8: 1,312,444 1,314,173 9: 1,317,083 12: 1,313,502 13: 1,313,823 1,318,635 1,326,724 14: 1,315,360 16: 1,318,747 29: 1,321,713 33.1: 1,314,577	280— 33.1: 1,316,358 1,316,660 1,316,661 1,321,946 1,324,777 1,317,907 33.4: 1,320,601 1,325,867 33.5: 1,319,303 1,325,697 33.6: 1,321,449 1,322,988 33.7: 1,319,626 49: 1,313,683 1,323,511 50: 1,325,256 51: 1,319,235 1,323,865 52: 1,325,557 53: 1,319,530 1,324,060 57: 1,316,239 61: 1,322,719 87.5: 1,315,005 1,318,847 89: 1,312,843 1,313,216 1,317,912 91: 1,323,653 92: 1,321,551 93: 1,318,356 94: 1,320,978 95: 1,315,126 96.1: R. 14, 750 96.2: 1,316,565 96.3: 1,324,399 100: 1,313,954 103: 1,316,193 1,324,047 106: 1,317,654 1,318,694 106.5: 1,316,369 124: 1,320,739 147: 1,326,413 153: 1,326,879 156: 1,325,166 158: 1,321,988 159: 1,316,921 163: 1,321,157 164: 1,316,689 190: 1,323,725 281— 1: 1,292,750 1,302,719 2: 1,299,316 1,303,731 3: 1,305,781 4: 1,303,305 5: 1,320,918 6: 1,291,281 1,322,649 7: 1,313,551 8: 1,309,841 1,313,104 11: 1,292,231 1,294,119 1,307,670 12: 1,316,366 15: 1,301,486 1,307,708 21: 1,290,442 1,292,880 25: 1,293,807 29: 1,293,659 1,306,691 30: 1,308,336 1,308,437 32: 1,318,281 34: 1,308,461 1,311,983 1,325,127 43: 1,307,673 1,313,944 44: 1,291,608 1: 1,313,048 9: 1,291,339 10: 1,291,385 1,314,509 12: 1,301,834 13: 1,316,103 16: 1,323,494 1,323,495 21: 1,316,581 1,317,226 1,326,406 22: 1,293,011 1,305,056 23: 1,318,163 1,322,702 24: 1,291,840 1,295,104
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## Classification of patents—Continued.

282—	24: 1,295,105 1,295,264 1,309,289 1,324,333 25: 1,303,838 1,312,684 26: 1,295,597 1,306,785 1,314,776 27: 1,292,769 1,299,643 1,310,912 28: 1,310,370 1,322,314 29: 1,299,525 1,321,557 1,324,504 283—	1: 1,296,059 1,297,663 1,299,562 1,300,871 1,305,062 1,313,374 1,314,032 1,323,226 2: 1,293,013 1,294,460 1,312,591 7: 1,322,293 9: 1,303,434 1,316,651 12: 1,307,143 1,316,653 23: 1,294,912 1,312,205 1,320,112 1,322,017 27: 1,294,735 1,300,079 1,302,758 29: 1,317,536 30: 1,325,941 31: 1,325,477 32: 1,293,914 1,300,808 36: 1,291,925 1,299,531 1,299,887 1,300,662 1,311,733 1,313,617 1,317,925 1,319,386 1,322,275 R. 14, 778 1,324,943 38: 1,316,114 41: 1,299,782 42: 1,290,171 44: 1,323,986 45: 1,290,131 1,297,841 47: 1,307,147 1,313,015 48: 1,294,585 1,301,742 1,302,150 51: 1,309,869 1,311,698 54: 1,314,146 1,318,695 57: 1,294,657 1,298,629 1,303,106 1,308,532 1,315,472 1,315,773 58: 1,291,077 1,299,647 1,305,941 1,307,560 1,311,014 60: 1,290,739 1,293,690 1,296,149 1,300,693 1,308,115 1,312,922 63: 1,315,591 1,325,243 66: 1,291,223 1,292,878 1,297,417 1,312,022 1,316,899 1,324,613 284—	2: 1,291,187 5: 1,313,805 1,315,797 9: 1,291,020 11: 1,320,987 12: 1,294,913 1,326,293	284—	17: 1,295,474 1,297,741 1,304,576 1,304,814 1,322,338 18: 1,300,925 19: 1,301,508 1,304,244 1,318,678 285—	1: 1,291,376 1,295,711 3: 1,298,596 1,300,400 1,319,745 5: 1,320,735 9: 1,290,869 1,296,286 1,300,109 1,307,794 13: 1,299,047 1,301,243 1,301,244 1,308,853 14: 1,320,731 21: 1,304,197 1,324,967 22: 1,310,391 1,314,787 1,326,272 1,321,689 1,324,270 1,324,741 25: 1,291,578 1,300,750 1,304,910 1,305,009 1,313,542 1,325,147 26: 1,295,132 1,295,304 1,304,250 1,309,625 1,310,190 1,310,758 1,321,901 1,323,655 30: 1,319,817 31: 1,299,423 1,317,446 1,317,574 1,322,013 34: 1,291,041 1,302,163 1,317,963 45: 1,299,396 46: 1,294,362 50: 1,312,001 1,319,124 55: 1,304,414 56: 1,295,222 57: 1,313,225 1,317,982 58: 1,295,282 1,300,652 1,305,582 1,306,654 1,306,927 1,311,023 1,321,154 62: 1,304,126 63: 1,306,043 67: 1,317,535 68: 1,312,625 69: 1,295,228 71: 1,291,251 1,296,103 1,310,559 72: 1,315,784 1,326,250 75: 1,299,371 1,303,367 1,309,780 77: 1,303,098 1,321,324 79: 1,301,737 1,324,674 81: 1,292,524 1,294,921 82: 1,301,627 84: 1,293,093 1,298,303 1,298,956 1,310,866 1,314,235 1,324,316 86: 1,290,613 1,298,687 1,307,537 90: 1,318,525 91: 1,297,763 1,300,945 1,309,963 94: 1,317,193	285—	96: 1,297,370 1,302,314 1,324,654 97: 1,301,453 99: 1,290,041 108: 1,295,369 111: 1,293,871 1,303,740 1,312,152 114: 1,292,072 115: 1,290,205 1,309,145 1,309,146 120: 1,301,245 1,303,714 1,304,980 1,321,929 1,325,783 122: 1,307,392 123: 1,306,476 1,317,735 125: 1,325,468 126: 1,307,540 129: 1,290,590 132: 1,310,740 1,314,410 1,322,347 137: 1,316,381 138: 1,295,263 139: 1,307,711 140: 1,307,706 143: 1,291,849 1,325,902 146: 1,300,365 1,304,979 1,305,668 1,320,503 1,326,643 158: 1,296,016 161: 1,298,632 1,299,934 162: 1,302,022 1,302,778 1,303,848 163: 1,293,615 1,300,414 165: 1,292,060 166: 1,292,517 1,323,320 167: 1,315,610 168: 1,303,448 1,322,357 169: 1,296,481 171: 1,325,826 172: 1,304,653 174: 1,297,719 1,315,484 175: 1,309,830 1,310,134 1,323,117 176: 1,307,273 177: 1,311,145 180: 1,312,584 185: 1,297,591 1,298,869 1,301,565 1,315,904 186: 1,293,051 1,308,981 1,325,949 190: 1,316,153 193: 1,290,158 1,293,926 194: 1,295,776 1,302,412 1,302,944 197: 1,326,626 199: 1,295,106 1,306,236 201: 1,324,897 202: 1,295,295 1,322,850 204: 1,304,726 286—	1: 1,291,383 1,299,409 1,313,202 1,321,919 1,325,996 1,326,064 1,326,095 1,326,242 7: 1,294,620 1,321,965 1,326,690 8: 1,301,387 10: 1,316,964 11: 1,292,197 1,315,822 14: 1,325,950 18: 1,293,607 20: 1,294,966 1,300,197 1,320,567	286—	20: 1,321,475 21: 1,317,294 23: 1,304,690 24: 1,303,490 1,303,883 1,309,075 25: 1,290,985 26: 1,324,775 27: 1,291,983 1,307,815 1,308,454 29: 1,291,869 30: 1,320,465 33: 1,307,901 34: 1,293,667 36: 1,325,544 39: 1,310,983 287—	1: 1,320,982 3: 1,316,289 1,323,237 11: 1,309,278 1,311,581 12: 1,307,551 17: 1,301,564 23: 1,303,439 24: 1,294,236 1,302,878 25: 1,312,802 26: 1,291,327 1,312,766 27: 1,305,868 1,315,121 28: 1,315,943 29: 1,321,371 31: 1,293,073 32: 1,291,360 1,293,332 34: 1,312,819 36: 1,295,628 1,302,879 1,310,312 38: 1,322,993 40: 1,323,195 42: 1,297,065 43: 1,307,289 52: 1,291,475 1,294,792 1,309,675 1,323,172 1,326,846 53: 1,297,995 54: 1,301,417 1,303,739 1,309,779 1,322,801 82: 1,305,590 1,305,591 90: 1,324,396 93: 1,300,023 1,322,991 103: 1,296,954 1,325,722 104: 1,305,311 110: 1,323,967 116: 1,323,147 125: 1,313,391 288—	1: 1,291,397 1,294,429 1,296,181 1,303,763 1,311,155 3: R. 14, 697 R. 14, 767 5: 1,316,578 16: 1,322,628 1: 1,324,035 7: 1,298,376 1,308,959 10: 1,312,604 14: 1,301,763 15: 1,313,673 1,321,616 1,321,617 17: 1,313,097 19: 1,321,904 1,323,500 22: 1,307,230 28: 1,311,458 31: 1,300,970 1,312,549 1,318,988 34: 1,324,793 35: 1,311,402 1,311,403 1,313,574 1,314,894 1,315,790 1,322,870 36: 1,307,177 1,318,853 38: 1,290,472 1,290,598	290—	38: 1,301,478 1,305,136 1,306,137 1,307,178 1,308,158 1,311,854 1,312,991 1,317,269 1,317,806 1,319,013 41: 1,321,619 46: 1,316,998 3: 1,322,409 47: 1,295,144 48: 1,304,252 52: 1,311,615 55: 1,312,021 291—	1: 1,309,039 3: 1,294,929 11: 1,305,086 21: 1,292,353 24: 1,303,300 1,314,198 26: 1,301,103 34: 1,297,196 40: 1,299,495 43: 1,314,330 46: 1,326,140 292—	17: 1,326,461 1,326,042 60: 1,324,018 63: 1,321,757 67: 1,321,214 73: 1,321,741 76: 1,326,345 78: 1,324,642 87: 1,319,517 108: 1,325,433 145: 1,324,155 156: 1,324,111 173: 1,325,970 179: 1,326,050 194: 1,316,379 197: 1,321,053 198: R. 14, 741 219: 1,322,677 1,324,188 1,324,381 221: 1,317,888 224: 1,326,723 228: 1,320,955 1,324,901 1,324,953 240: 1,320,175 263: 1,320,147 1,323,595 264: 1,325,538 275: 1,325,417 1,326,623 292: 1,318,987 294: 1,316,223 299: 1,326,278 309: 1,318,965 307: 1,315,832 320: 1,326,291 322: 1,324,566 335: 1,320,461 336: 1,324,181 340: 1,318,382 1,318,468 345: 1,324,641 293—	1: 1,294,996 2: 1,317,409 5: 1,323,233 8: 1,302,586 1,320,981 10: 1,324,936 13: 1,316,939 1,320,314 1,326,204 16: 1,298,996 1,326,487 20: 1,320,001 21: 1,322,691 24: 1,300,919 25: 1,317,678 35: 1,317,678 36: 1,305,714 37: 1,292,130 1,319,901 38: 1,297,544 44: 1,323,221 1,310,179 45: 1,290,705 1,299,319 48: 1,310,731 54: 1,293,345 1,320,476 55: 1,292,156 1,290,187 1,294,381 1,318,985 1,299,316	293—	55: 1,300,433 1,300,434 1,300,858 1,301,880 1,302,279 1,303,267 1,305,292 1,307,056 1,309,699 1,311,557 1,313,043 1,313,282 1,314,800 1,315,428 1,315,529 1,315,676 1,315,789 1,316,030 1,316,853 1,317,112 1,318,314 1,319,099 1,321,655 1,322,121 1,325,342 1,325,368 1,325,727 1,325,728 1,325,729 1,325,730 1,325,731 1,325,732 1,325,733 1,325,734 1,325,735 1,325,736 1,325,737 1,325,738 1,325,739 1,325,740 1,325,741 1,325,742 1,325,743 1,325,744 1,325,745 1,325,746 1,325,924 1,326,795 58: 1,295,602 1,325,690 1,325,705 1,326,094 294—	10: 1,324,986 11: 1,324,498 1,326,209 12: 1,308,164 51: 1,323,980 78: 1,326,802 295—	2: 1,313,173 6: 1,310,136 1,306,289 8.5: 1,306,280 1,319,957 1,321,808 9: 1,313,348 15: 1,319,275 33: 1,316,487 34: 1,293,698 1,322,513 35: 1,326,649 37: 1,292,663 1,316,087 38: 1,322,587 42: R. 14, 659 44: 1,296,914 48: 1,308,996 1,326,255 296—	1: 1,320,131 6: 1,319,729 1,322,068 10: 1,321,331 11: 1,319,312 16: 1,312,561 20: 1,316,332 23: 1,318,994 1,320,794 24: 1,314,865 1,317,044 26: 1,322,896 28: 1,322,887 1,325,957 35: 1,321,081 36: 1,322,122 37: 1,326,877 1,326,881 38: 1,318,034 43: 1,324,718 45: 1,317,208 1,318,624 1,318,983 1,320,101
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*Classification of patents—Continued.*

296—	45: 1,323,790 1,323,791	296—	55: 1,326,482 56: 1,323,343	296—	98: 1,318,820 1,322,326	296—	117: 1,321,913 118: 1,312,836	296—	216: 1,325,187 298— 9: 1,319,986	298—	19: 1,315,523 1,318,154
	48: 1,317,410		60: 1,314,684		102: 1,314,225		139: 1,317,937		10: 1,325,495		1,322,958
	51: 1,314,882		84: 1,312,508		103: 1,321,389		1,322,975		11: 1,322,155		1,323,670
	1,317,905		1,319,516		1,323,695		1,325,282		1,322,156		1,323,904
	1,320,146		85: 1,318,304		110: 1,319,479		145: 1,313,999		14: 1,308,507		21: 1,320,024
	1,326,274		88: 1,325,059		113: 1,313,778		1,317,512		1,319,118		22: 1,325,517
	52: 1,317,337		95: 1,315,760		116: 1,316,932		1,320,998		19: 1,312,489		24: 1,315,386
	1,326,233		1,326,448		1,321,914		1,324,872		1,314,405		33: 1,310,916

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